ANALYSIS OF SPATIAL AND TEMPORAL VARIATIONS IN STRAIN RATES NEAR SWISS CAMP, GREENLAND.

A Thesis Presented

by

Julie A. Rumrill

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Thesis Examination Committee:

Thomas A. Neumann, Ph.D. **Advisor**

Keith A. Klepeis, Ph.D.

Donna M. Rizzo, Ph. D. **Chairperson**

Frances E. Carr, Ph. D **Vice President for Research and Dean of Graduate Studies**

Date: September 15, 2008

ABSTRACT

In this thesis, I present results from a two-year study of strain-rate variations along a flow line on the western margin of the Greenland ice sheet. I used baseline network solutions to investigate variations in longitudinal strain rates over the 2006 and 2007 melt seasons. Analyses revealed high-magnitude, short-duration events of increased longitudinal strain early in the melt season coincident with a high melt year, suggesting a link between melt production and its effects on seasonal ice flow.

Results from 2006 data show that longitudinal strain rates became variable shortly after the onset of melt (day 186) changing up to ~ 15 x 10^{-4} a^{-1} within 24 hours. The onset of melting occurred earlier in 2007 (day 153) and was also followed closely by strain-rate deviation from background rates calculated prior to melting. The data revealed rapid (hours to days), high-magnitude (two to ten times greater than background rates) changes in longitudinal strain rates (hereafter referred to as 'high-strain' events) that occurred both on the small-scale (affecting 1-4 baselines) and on the large-scale (affecting 5 or more baselines). Large-scale high-strain events were infrequent, on the order of two events per season. Events were likely caused by drainage of supraglacial meltwater that penetrated to the bed of the glacier raising the basal water pressure. The increase in pressure reduced the basal resistive stress, and allowed rapid local acceleration. The basal stress reduction was transmitted to areas of higher stress which resulted in longitudinal compression of the ice down glacier and longitudinal extension up glacier. The evolution of high-strain events altered longitudinal strain rates more than 15 km along flow from the site of initiation. I estimated the origin and spatial extent of high-strain events by assessing the magnitude of the strain-rate variations in various baselines, and observing whether the altered strain regime was extensive or compressive. Magnitude and timing of changes in strain suggest that high-strain events originated in the ablation zone, the equilibrium zone, and inland of the equilibrium zone, and indicate that short-term altered stress conditions are not confined to the ablation zone.

The background strain-rate for 2007 (~ -7 x 10^{-4} a^{-1} for a 37 km longitudinal baseline) was similar to the 2006 longitudinal background rate. When extrapolating the 2006 background rate over the melt season, the expected change in baseline length (~ 11 m) was similar to the observed change (~ 9 m). In contrast, when extrapolating the 2007 background rate over the melt season, the expected shortening was ~ 6 m, but the observed shortening was less than 1 m. This result suggests that seasonal high-strain events have the ability to alter longitudinal baseline length, allowing a greater ice flux to lower elevations where melting occurs for a larger portion of the year. However, the cumulative seasonal effects of both large-scale and small-scale strain events are modest, and indicate that seasonal changes in strain rates have a minor effect on the overall stability of the ice sheet. Nevertheless, it is possible that over much longer timescales these seasonal changes may become more important with increasing temperatures and available melt. Results from this study may also be useful in making broader inferences regarding the response of grounded portions of the ice sheet to seasonal changes in basal resistive stress.

CITATION

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CHAPTER I: INTRODUCTION

A. Overview of project

The Greenland ice sheet is the second largest mass of ice on earth, and uncertainty about its response to continued warming has generated interest within the scientific community. Changes in mass balance and ice dynamics are of concern due to implications for increased inputs to sea-level and overall stability of the ice sheet (Krabill and others, 1999, 2000; Parizek and Alley, 2004; Alley and others, 2005; Overpeck and others, 2006; Rignot and Kanagaratnam, 2006). Faster ice motion can result in increased calving rates at outlet glaciers and increased melting due to a greater ice flux to lower elevation where melting occurs for a larger part of the year. Seasonal changes in surface ice velocity and strain rate have been identified at many valley glaciers (Hooke and others, 1989; Gudmundsson, 2002; Boon and Sharp, 2003; Mair and others, 2003; Anderson and others, 2004; Sugiyama and Gudmundsson, 2004; MacGregor and others, 2005) but due to difficulties with accessibility and logistical costs, few field-based studies have focused on ice dynamics within the grounded portions of the Greenland ice sheet.

Zwally and others (2002) reported a seasonal velocity variation on the western margin of Greenland near Swiss Camp using data from a single GPS site, which recorded for 12 hours per day, averaged over 10-15 days. Joughin and others (2008) describe a similar seasonal velocity increase on the western margin of the ice sheet using satellite interferometry data. The authors remark that the trend of increased velocity was accentuated by two rapid, local speed-up events at two discrete locations. They hypothesize that the cause of the general speed-up was enhanced sliding from basal

lubrication, however, the temporal resolution of their data (24-day averages) was coarse and could not rule out the possibility of short-term (hours to days) influences on ice velocity such as longitudinal coupling (stress transfer along flow).

It has been previously hypothesized that seasonal velocity variations in Greenland are the result of meltwater penetration to the glacier bed, causing increased basal water pressure and leading to increased basal sliding (Zwally and others, 2002). This scenario has been well-documented in valley glaciers (e.g. Hooke and others, 1989; Gudmundsson, 2002; Boon and Sharp, 2003; Mair and others, 2003; Anderson and others, 2004; Sugiyama and Gudmundsson, 2004; MacGregor and others, 2005) where the overburden pressure is generally far less than in ice sheets. Sharp increases in basal water pressure close to overburden can result in localized flotation of the overlying ice. This reduces the basal resistive stress (friction), and allows rapid motion events. Price and others (2008) explain that differential motion at two discrete locations along flow (where one is sliding and the other is not) can alter longitudinal stresses between them. There is effectively a 'push' or 'pull' from the primary location to the secondary location, resulting in a velocity increase at the secondary location. The velocity increase is due to the stress transfer along flow, not due to sliding at the secondary location. Longitudinal stress coupling can occur over varying distances related to the magnitude of the velocity change (Balise and Raymond, 1985, Price and others, 2008).

Das and others (2008) recorded the rapid drainage of a supra-glacial lake on the western margin of Greenland and the resulting effects. They concluded that increased basal water pressure from melt water penetration to the bed resulted in rapid acceleration

and increased strain rates. The spatial extent of these rapid changes is uncertain; however, it has been suggested that they may have a substantial impact on the ice dynamics in Greenland (Das and others, 2008). To discern whether velocity changes are primarily due to enhanced sliding or longitudinal stress coupling, it would be ideal to observe the spatial extent of changes in basal water pressure.

Unfortunately, basal water pressure is difficult to measure directly because it requires drilling to the base of the ice. On valley glaciers and relatively small outlet glaciers where ice thicknesses are <500m, campaigns to directly measure fluctuations in subglacial water pressure during the melt season are more feasible with a modest amount of logistical and technical support. However, with ice sheet thicknesses around the equilibrium zone in Greenland reaching >1km, borehole data are rare to non-existent due to the logistical difficulty and expense in obtaining such measurements.

A simpler method that allows indirect inference of changes in basal resistive stress caused by increases in basal water pressure includes analyzing variations in strain rates over space and time. Glen's flow law describes the direct relationship between stress and strain in ice (Hooke, 2005). Consideration of this relationship along with controls on ice motion, allows the use of strain variations at the surface to infer changes in basal resistive stress (Balise and Raymond, 1985). Short-term variations (hours to days) in basal resistive stress often manifest as longitudinal strain-rate reversals or rapid changes in strain rates above background rates (Balise and Raymond, 1985; Hooke and others, 1989; Gudmundsson, 2002; Sugiyama and Gudmundsson, 2004; Rippin and others, 2005). I used the relationship between stress and strain along with climatological

data to infer changes in basal resistive stress, assess the location of origin for high-strain events, and assess the spatial extent of strain variations associated with short-term, high-strain events.

The study area was located along a flow line through Swiss Camp on the western margin of Greenland (Fig. 1-1). This site was chosen because of available background data including temperature, accumulation rate, seismicity, airborne radar, velocity, and strain.

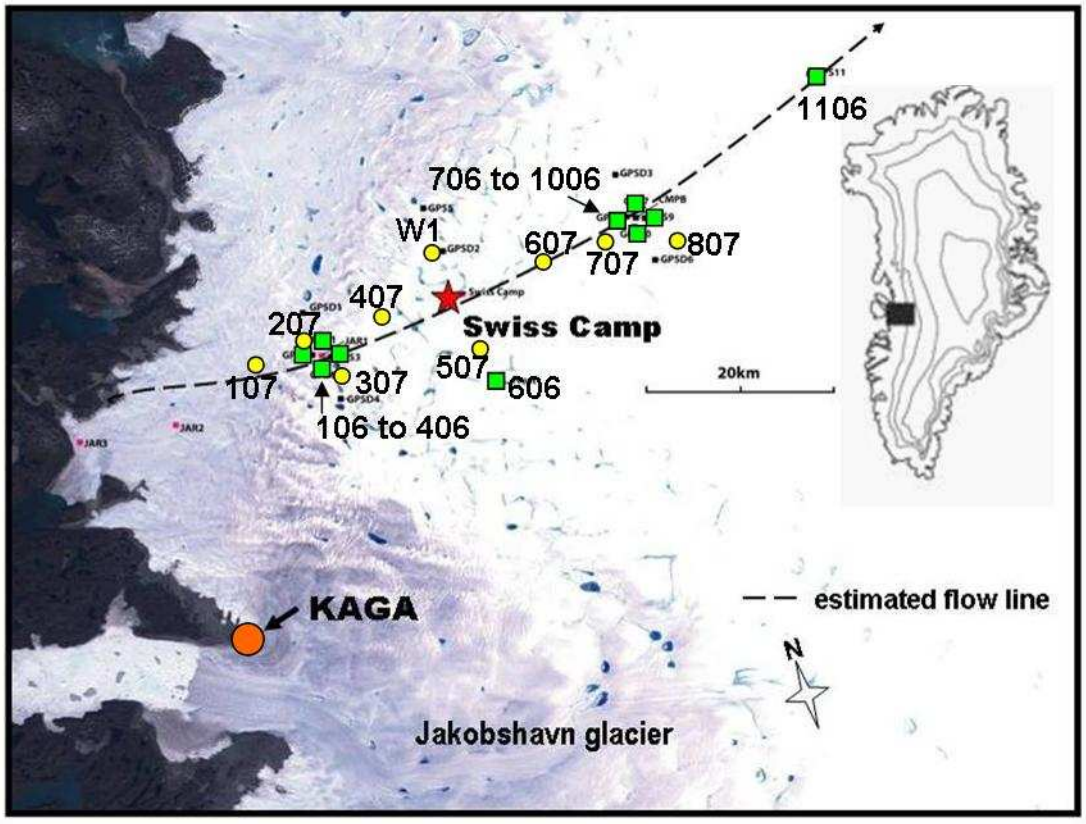

Figure 1-1. Satellite image of study area with inset map showing location on Western margin of Greenland (black square) and locations of GPS receivers for 2006 (green squares) and 2007 (yellow circles). Also shown is the location of the fixed base station, KAGA.

Several studies have focused on this area since the 1990's, revealing significant variations in ice dynamics, including seasonal velocity variations (Zwally and others,

2002), thinning (Krabill and others, 2000), and anomalous longitudinal surface strain-rate changes (Stober and others 2004). The area is safe to travel by snowmobile, has an established camp, and affords the opportunity to collaborate with other scientists.

In the work presented here, I investigated seasonal variations in strain rates to determine if they are indicative of rapid changes in basal resistive stress caused by seasonal meltwater penetration to the bed. I identified individual high-strain events and estimated the independent and cumulative impact of these events on the baseline lengths in my study area over a 2-year time span. Using a GPS baseline network survey, I answered the following questions: How do the magnitude and extent of seasonal strain-rates vary and how do they relate to observed velocity changes?; How do strain events evolve spatially and temporally along the flow-line?; What inferences can be made as to whether events are caused by local (rapid changes in basal resistive stress) or non-local forcings (longitudinal coupling)? and finally, What are the implications of cumulative changes in baseline length with respect to the theory of ice sheet instability?

The primary results of this study include the identification of high-strain events over the course of the 2006 and 2007 melt seasons. I found a good correlation between the onset of melting and strain-rate variations above background rates, suggesting a hydrologic link. The initiation site of the events is not limited to the ablation zone, with several strain events likely caused by supraglacial lake drainage events in the equilibrium zone. My data suggest that the ice dynamics within this study area are similar to those of valley glaciers in that the largest strain events occur in the spring, followed by lesser magnitude events during the remainder of the melt season. Results of strain-rate analyses

agree well with the conclusion of Price and others (2008) that cumulative, rapid (days to hours) motion events may explain the general velocity increase observed by Zwally and others (2002) and Joughin and others (2008). My data suggest a correlation between a high melt year and larger strain events, but show that cumulative changes associated with these events are modest over the span of this study, and do not suggest a catastrophic ice sheet response to further warming in the near future.

Results from this research may be most useful as a complement to studies in other locations, and as an addition to much needed background data for future studies, particularly considering the scarcity of field-derived strain rate data. Since glacio-morphological conditions at this field site are typical of about 70% of the margin of Greenland (Knight and others, 2002), seasonal strain analysis in this area may allow broad inferences into the behavior of the strain regime at other marginal sites as well. Fine-scale, field-based observations append both spatial and temporal resolution between remotely sensed data and sparsely collected field-based data. In addition, assessment of the frequency, duration, and cumulative effects of multiple strain events over two melt seasons allows insight into the contribution of strain variations to ice sheet stability in general.

B. Limitations of study

Because of the short time span (2 years) of the study, projection of these results into the future is limited. The results are also spatially limited due to the proportion of the ice sheet involved in the study. The expanse of the Greenland ice sheet necessitates a

relatively small study site when performing field-based studies, and thus one must be cautious when extrapolating these results over broad areas.

Although general inferences can be made with respect to basal water pressure fluctuations, this is not a substitute for direct measurements. Although water pressure fluctuations are most likely responsible for the reduced basal friction resulting in the observed short-term strain-rate changes, the possibility of other influences (e.g. sediment shear) cannot be eliminated.

Finally, large strain-rate errors (particularly in 2006) were the result of high RMS (root mean square) error from the baseline measurements. Long baselines within the network, a discontinuous base station, and small length changes compared to uncertainty over 24-hours contributed to the large error. As a result, the number of significant 24-hour strain rate calculations was limited in 2006, and thus it was necessary to focus on longitudinal changes between arrays rather than inter-array changes. For this reason, the following discussions focus more on the 2007 data, where baseline lengths were moderate, errors were smaller, and spatial coverage was improved, resulting in a more robust data set.

C. Structure of Thesis

This journal-style thesis is organized into five chapters. Chapter I provides a general overview of the project, including motivations, objectives, and significance. In Chapter II, I include detailed information regarding the field and laboratory methods used in data manipulation, and explain the relevant background glacial processes. Chapter III

is a literature review that serves to orient the reader with the broader context of the project, including important preceding works both directly and indirectly related to this project. Chapter IV comprises the main body of the thesis and includes a manuscript that has been submitted for publication to the Annals of Glaciology on the interpretation of longitudinal strain events during the melt season. As it is written to stand alone, there will be some overlap with the content in other chapters. Chapter V expands upon the succinct results discussed in chapter IV, and discusses supplemental work that was not included in the paper. This chapter also includes conclusions drawn from data analysis, and recommendations for future work.

CHAPTER II: RESEARCH METHODOLOGY

A. Stress and Strain in ice

When investigating strain variations in ice, it is essential to understand the mechanics of ice flow. In a deformable material (such as ice), both applied stresses and changes in stress can produce deformation (or strain). In order to fully describe the state of stress at a given point, one must consider the nine components of the stress tensor (Fig. 2-1a). Similarly with strain, there are 9 components of the strain tensor. The stresses act as either normal to a face of a volume or as shear stresses as shown below (Fig. 2-1b).

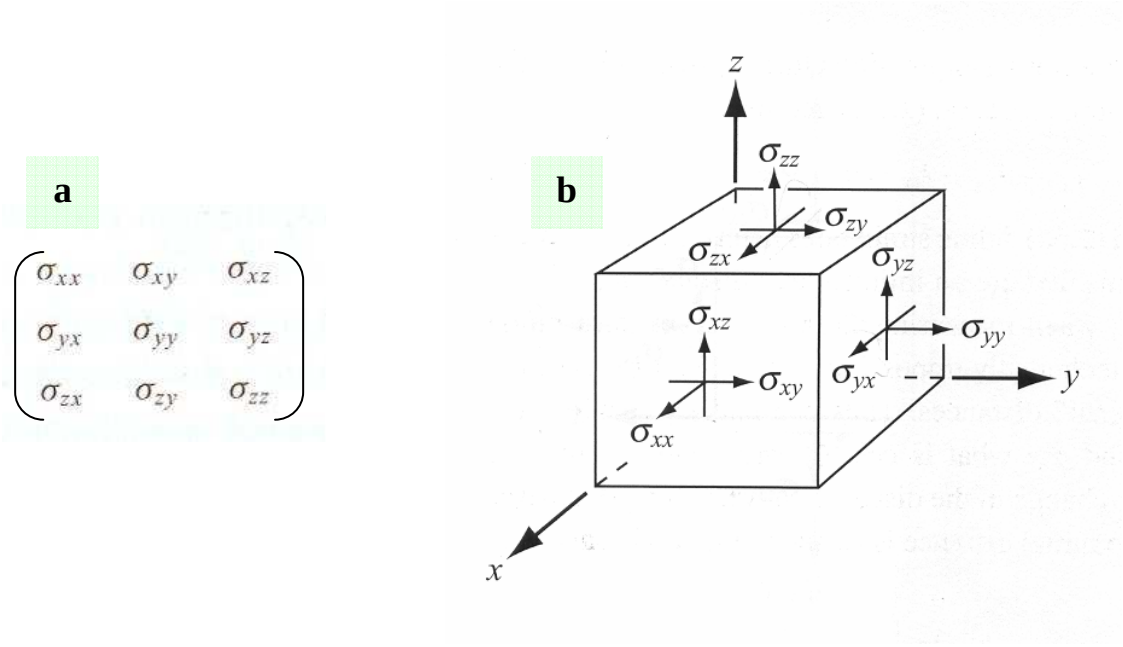

Figure 2- 1. Illustrations showing: a) the 9 components of the stress tensor and b) orientation of the components. ***(modified from Hooke, 2005).***

Considering the limitations of using surface measurements to infer conditions at the bed, I followed the method described in Hooke (2005, p.260), and oriented a Cartesian coordinate system to align with the principal axes of stress and strain. The

principal axes chosen in this study were the 'z' axis, which was oriented in the direction of gravity, and the 'x' axis, which was horizontal and positive in the along-flow direction. Through this simplification, I assumed there was no deformation in the 'y' direction (transverse to flow) thus, reducing the three dimensional problem to two dimensions. Working under the assumption that the principle axes of stress and strain coincide, I am able to infer that changes in the longitudinal direction of strain are produced by changes in stress operating in that same direction. Assuming the flow is irrotational, I equated the shear 'zx' and shear 'xz' terms (fig. 2-2). These assumptions allowed me to investigate variations in longitudinal (along flow) strain-rates and effectively focus on the stress components that have the most influence on those variations. After the simplifications mentioned above, three independent components of the tensor remained. Longitudinal stress and strain occur in the direction normal to x. The other components of the stress tensor important to this study were the normal 'z' component (i.e. the vertical direction), which is strongly influenced by changes in basal water pressure, and the shear 'zx' component, representing the direction of the driving stress (τ_d) and the basal resistive stress (τ_b) (Fig. 2-3).

B. Description of relevant glacial processes

Ice motion is typically measured as total surface velocity and is primarily the result of two processes: creep and basal sliding. Creep refers to movement caused by deformation (strain) under stress, usually the driving stress. This deformation occurs on a small scale within individual crystals and on a large scale within the interior of the ice.

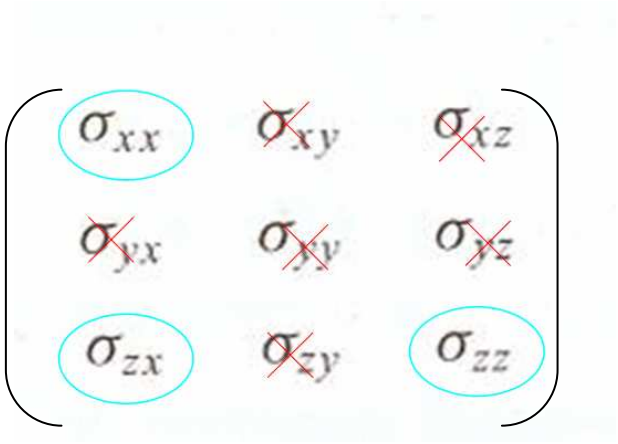

Figure 2- 2. Illustration showing the most important components of the stress tensor (circled in blue) for the purposes of this project after simplifications were made.

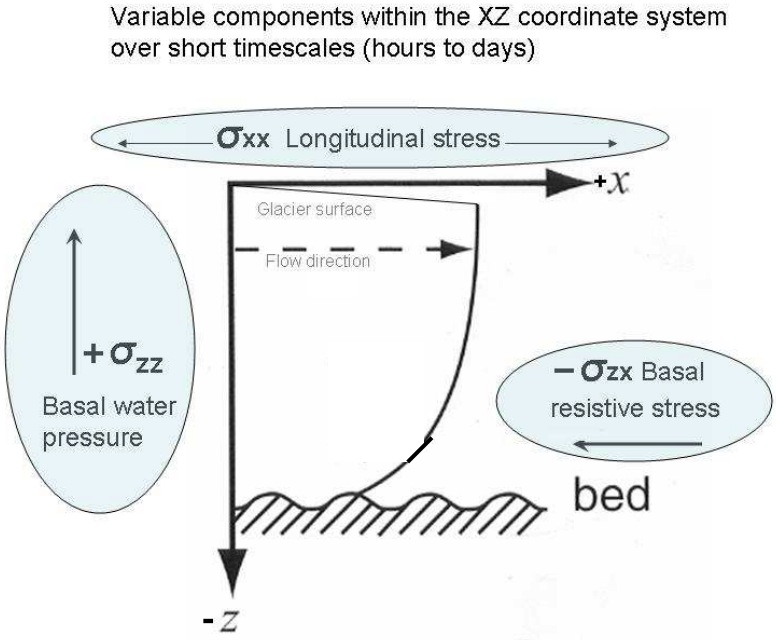

Figure 2- 3. Diagram of the chosen coordinate system for this project and the stresses acting in directions within that coordinate system. Stresses include: longitudinal stress; driving stress; and basal resistive stress (which is affected by increases in basal water pressure).

At the molecular level, ice deforms through creep along the basal plane of the crystal structure. Preferred orientation of ice crystals forms a fabric within the ice that

allows the glacier to flow. On a larger scale, as explained in Hooke (2005), it has been shown empirically that ice behaves as a nonlinear viscoplastic material when under stress. Very small strain rates are predicted at low stresses to approximate a yield stress in ice (Hooke 2005). Glen (1955) developed a constitutive relation that describes how stress and strain are related within large-scale ice motion. It is defined as:

$$\frac{d}{dt}(\varepsilon_s) = A\tau_d^{\,n}, \qquad (2\text{-}1)$$

where ε_s is the shear strain, A is a temperature-dependent stiffness parameter, τ_d is the driving stress, and *n* is an empirically-derived creep exponent, commonly taken as 3.

Ice motion occurs as a consequence of the transfer of mass from the accumulation zone to the ablation zone along a flow-line. Movement is primarily controlled by driving stress and basal resistive stress, however, longitudinal stress may be equally important as well as other factors such as substrate characteristics, and water pressure at the bed. The driving stress is a function of ice overburden pressure and the surface slope, and will balance the basal resistive stress (τ_b) allowing internal deformation to prevail in steady state glacier flow (Fig. 2-4). The equation that describes this relationship (Paterson, 1994) is as follows:

$$\tau_b = \rho_i\, gh\alpha_s, \qquad (2\text{-}2)$$

where ρ_i is the density of ice, g is the acceleration due to gravity, h is the ice thickness, and α_s is the surface slope (assumed small, otherwise sin (α_s) is used). As mentioned in section 2.1, these stresses act as shear stresses in the 'zx' direction of the coordinate system (e.g. Fig. 2-4). Driving stress includes gravity (which drives ice motion by internal deformation or ice flow) ice density, ice thickness, and surface slope. Since physical constraints on driving stress do not change appreciably over short timescales, rapid-onset, short-duration, intra-seasonal increases in velocity cannot be explained by variations in this component. For example, Krabill and others (1999) reported an average thinning rate of ~ 1 m a^{-1} on the western margin of Greenland. Considering a value for gravity of 9.8 m s^{-2}, ice density of 0.9 g cm^{-3}, a hypothetical ice thickness of 500 meters, and a surface slope of 2 degrees, the driving stress is 153.9 kPa. A one meter decrease in ice thickness (other values remaining the same) over one year results in a driving stress of 153.6 kPa, which is not a significant change.

In addition to internal deformation, a second component of total surface velocity is basal sliding. Basal resistive stress opposes the driving stress and modulates sliding at the bed of the glacier. At locations where the glacier is not frozen to the bed, ice is able to slide over the bedrock at its base. Decoupling of the glacier sole from the underlying bed may occur because of irregular bed topography or increases in basal water pressure. Meltwater that reaches the base of the glacier from supraglacial sources may serve as a lubricant and cause temporary increases in basal sliding that vary on timescales dependent upon the rate of water input (Bartholomaus and others, 2007). In contrast to creep, which is relatively steady, basal sliding velocity varies over space and time, and is

influenced by factors in addition to basal water such as: bed roughness, the existence of a basal sediment layer, geothermal heat flux, the presence of cavities, and the general configuration of subglacial drainage system (Drewry, 1986). Of these factors, the rate of melt water input to the glacier bed is a dominant control on sliding in hard-bedded (ice resting directly on bedrock) glaciers (Bartholomaus and others, 2007). Sliding is promoted by high water pressure resulting in low effective pressures at the bed (Iken and Bindshadler, 1986). Thus, there exists an inverse relationship between effective pressure and basal water pressure such that:

$$N = \rho_i - \rho_w, \qquad (2\text{-}3)$$

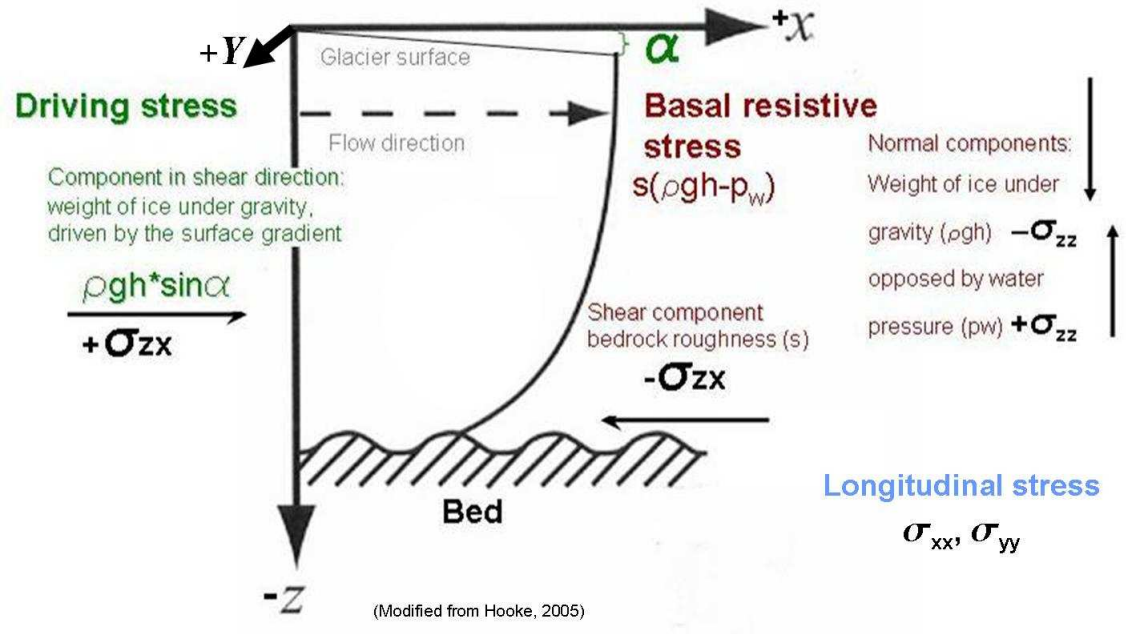

Figure 2- 4. The componenets of driving stress (green) responsible for ice flow; basal resistive stress (red) acting against ice flow.; and longitudinal stress (blue), acting along or across flow.

where N is the effective pressure, ρ_i is equal to the cryostatic pressure of ice (overburden), and ρ_w is the subglacial water pressure. Sliding may be widespread or be restricted to a discrete location, depending upon the spatial extent of the increase in water

pressure above that of overburden pressure. The extent of sliding (thus the spatial extent of the decrease in effective pressure) may be inferred through surface strain measurements.

Uniform basal sliding over a wide area produces a uniform increase in velocity and will not cause stations to move relative to one another, resulting in no significant strain between stations. Conversely, differential basal sliding occurs when basal resistive stress is reduced at one location relative to another. This difference results in non-uniform velocity, and produces either compressive strain if one station slides toward another, or extensive strain if one station slides away from another. Rapid, localized sliding has been shown to increase velocity in ice along flow because of longitudinal stress coupling from areas of low stress to areas of high stress, which alters strain rates in the process (Price and others, 2008).

In contrast to driving stress, basal resistive stress and longitudinal stresses have been observed to change rapidly over short timescales (hours to days) with changing water pressure at the ice-bedrock interface and reconfiguration of the hydrologic system (Iken and Bindshadler, 1986; Hooke and others, 1989; Gudmundsson, 2002; MacGregor and others, 2005). When basal water pressure is increased sufficiently, it can raise the ice off the bedrock, thus reducing the basal resistive stress, and allowing rapid sliding to occur between the glacier sole and the bed. Longitudinal stress are then affected as the area of rapid motion transfers stress along flow, pushing the ice down glacier (compression), and pulling on the ice up glacier (extension).

As a result of spatial differences in velocity generated by local sliding, ice may be deformed by either tensional or compressional stress in the longitudinal direction. The resulting extension or compression along-flow results in a length change which can be measured as strain in that direction. Strain-rates were calculated using the change in distance between points (baseline lengths) at the ice surface over a time interval by the logarithmic strain equation (Hooke, 2005, p. 265):

$$\frac{d}{dt}(\varepsilon) = \frac{1}{\Delta t} * \ln\left(\frac{\ell_f}{\ell_o}\right), \qquad \textit{(2-4)}$$

where ε is the horizontal strain, $\triangle t$ is the time interval between measurements, ℓ_o is the initial distance between points, and ℓ_f is the final distance between points.

C. Field methods

1. Study Site

The principle observations for this project were collected along a flow line near the western margin of the Greenland ice sheet, which passes through Swiss Camp (65.57˚ N, 49.31˚ W) and curves westward toward the grounded ice edge (Fig. 1-1). Swiss Camp, central to our study area, is in the equilibrium zone; ~ 35 km from the ice edge and 510 km from the ice divide (Wang and others, 2002). Ice thickness measured with ice penetrating radar was ~ 400 m near the ablation zone end of the study area, and ~1200 m near the up glacier end of the study area (Catania and others, 2008).

Results from a thermo-dynamic ice model suggest that the basal temperature is above the pressure melting point from 400 km northeast of Swiss Camp to the ice edge (Wang and others, 2002). This prediction suggests that wet basal conditions are predominant year-round and that part of the velocity is due to basal sliding throughout the year. The average annual air temperature at Swiss Camp from 1996 to 2005 was -11.4°C. A period of extensive melting from April to September allows numerous surface lakes to form in km-scale surface depressions within the study area. Surface topography is characterized by broad, km-scale undulations and the surface slope along the length of the study area is ~ 1°.

The primary lithology of the glacier bed in this area is an erosionally resistant, reworked Archaean amphibolite gneiss (Geological Survey of Denmark, 2003). Although there are no results from borehole studies that describe basal conditions near Swiss Camp, a borehole study of bed conditions and ice flow near Jakobshavn glacier (~ 40 km southeast of Swiss Camp) by Luthi and others (2002), characterized rapid drainage at the bed as indicative of either a linked cavity system or a homogeneous medium sand layer ~0.1 to 1 m thick. By monitoring water levels in adjacent boreholes, they show that high basal velocities and rates of basal water dispersion are readily explained by both scenarios, but a linked cavity system is more likely. Knight and others (2002) characterized the basal ice at the margin of the Russell Glacier ~250 km south of Swiss Camp, and found no evidence for widespread subglacial transport of sediment by deformation. Visual observations of the exposed bedrock along the western margin (made

while flying out to the study site in 2007) also support the likelihood of minimal sediment at the glacier bed.

2. Data collection

In 2006, the study area spanned 120 km^2 from the ablation array to station 1106, the furthest point inland. In 2007, revised placement of GPS stations increased the spatial extent of the study area to ~512 km^2. The fixed base station used to reference GPS positions was located on exposed bedrock near the outlet of Jakobshavn glacier, ~40 km from Swiss Camp (Fig. 1-1).

During the 2006 field campaign, we installed ten Trimble 5700 dual-frequency receivers according to a design described by Anderson and others (2004) (Fig. 2-5) and collected continuous data at a 15-second sampling frequency. We established a GPS network that included two arrays of four GPS receivers each (numbered 106-406 in the ablation zone and 706-1006 in the accumulation zone) and one additional receiver (1106) to record far-field ice velocity (Fig. 2-6a). The tenth receiver (station 606) was installed near the location of a seasonal supraglacial lake, but because it was on a different flow line, the data were not used in this study. The GPS antennas were mounted on tripods, constructed of steel conduit and plywood. The conduit legs were anchored 2 meters into the ice using a portable steam drill (Heucke, 1999). This design was resistant to high winds and slush-slides, which could other wise compromise the data collection. A fourth section of conduit was anchored separately at a similar depth. It was fitted with a PVC sleeve that bound the GPS receiver, 12-volt battery, 50-watt solar panel, and photovoltaic charge controller module, so that as the snow surface lowered, the equipment would slide

down the pole and rest on the glacier surface. This installation method provided position measurements independent of ablation. An L-shaped wood bracket was used to keep the solar panel upright at an approximate angle of 60 degrees to the snow surface. At the far-field site,

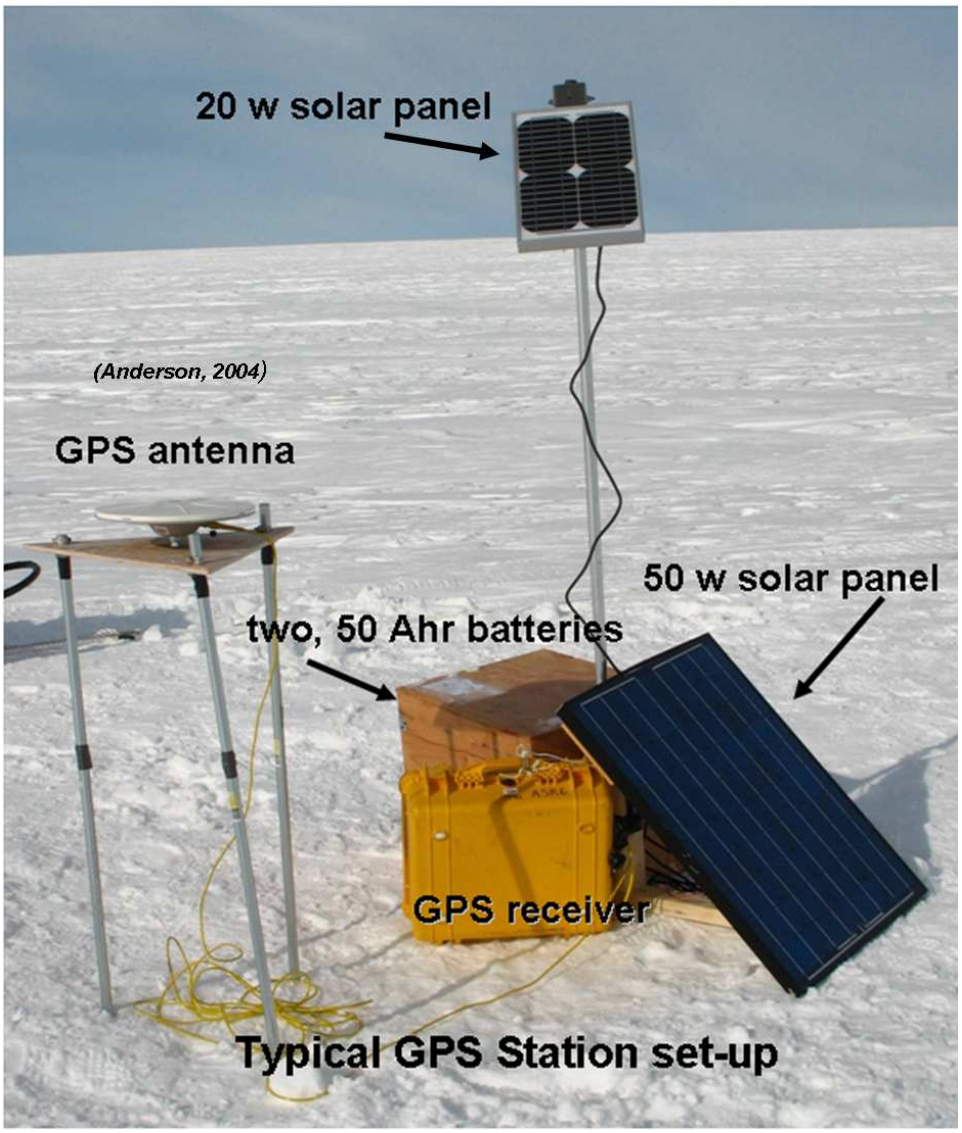

Figure 2- 5. Typical design of GPS stations for 2007 (following the method of Anderson and others, 2004). The stations were modified slightly from 2006 by adding a 20 W solar panel.

station 1106, the solar panel was attached to the conduit with clamps and raised about 1 m above the snow surface to avoid anticipated late spring snowfall. The solar panel, charge controller, and battery were wired using 12-gauge stranded wire, and 3/8" ring connectors for battery terminal connections. Nine of the ten stations were set up as described above, while the remaining receiver (see Fig. 1-1, station 606) was located inside a large waterproof box along with instrumentation for a seismometer.

Power supply for the GPS receivers was estimated by considering the power draw (4 watts), the number of days during the year when the sun is near or below the horizon (zero during the melt season, ~112 days year round), and the 50 % reduced capacity of the batteries due to the extreme cold temperatures. I estimated that with one 50 amp-hour (Ahr) battery and the 50 watt solar panel, we would be able to power the seasonal receivers for ~3 days solely on battery power, and continuously while the sun was above the horizon. It would have been prudent perhaps to have two batteries at each site to provide additional power in case of snow drift over the solar panel; this situation was corrected in 2007. I also estimated the number of batteries required to power the far-field site over the winter months. The far-field station was equipped with an additional 50-watt solar panel, four 100-Ahr batteries, and thirteen 50-Ahr batteries to provide ample power throughout the winter. Snow drifting over solar panels created intermittent power interruptions in the 2006 season, particularly in the inland array; thus, data retrieval rates varied across the entire network. Rates for the ablation zone array, the inland array, station 606, and station 1106 were, respectively: 85%; 39%; 89% and 100%. Analysis of

the 2006 data set allowed me to determine the spatial scale over which horizontal velocity variations were uniform. The aim in 2007 was to capture larger spatial scale variations

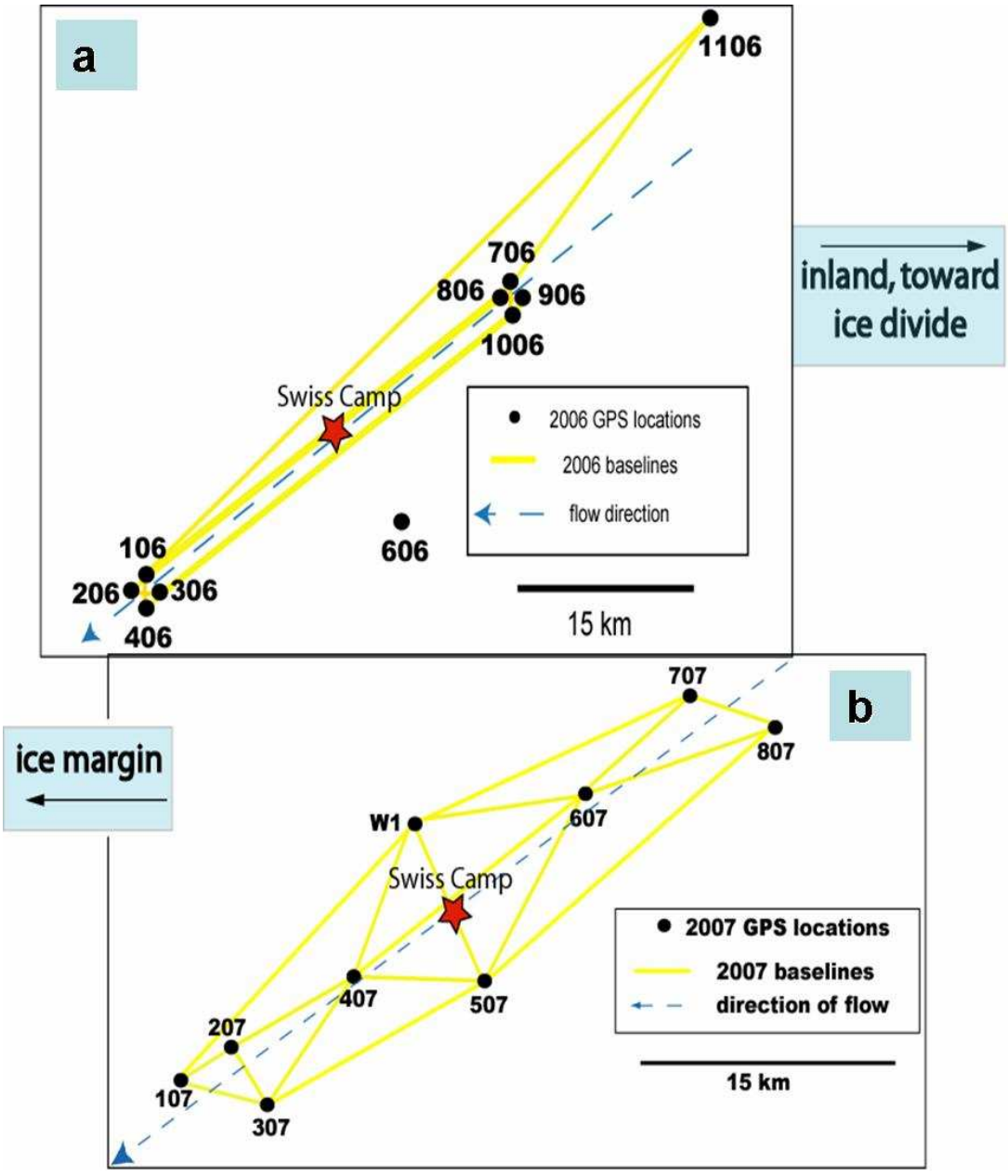

Figure 2- 6. Schematic showing relative positions of GPS stations and baselines along the flow direction (SW) in a) the 2006 field season, and b) the 2007 field season.

in velocity by altering the geometry of the GPS network, changing the dimensions of our field area to ~64 km by ~8 km (Fig. 2-6b). Nine, dual-frequency Trimble 5700 receivers were installed to measure baselines in the direction of ice flow, and two of these receivers were also used to investigate transverse strain and velocity variations around the equilibrium line (numbered sequentially, 107 through 807). With the installation of an additional 20-watt solar panel and 50 Ahr battery at each station, data collection rates for the 2007 GPS network improved to: 88%, 80%, and 99% for the lower, middle, and upper flow-line locations, respectively. Equipment malfunction at GPS 11 prevented the collection of data from that site.

D. Laboratory methods

1. Data Reduction and Analysis

Upon completion of the first field season, preliminary data were collected from eight of the nine receivers. Due to the uniqueness of the data set (very fine temporal resolution from many simultaneously recording receivers) determining the best way to process the data was challenging. Surveying a glacier proves more complex than surveying a fixed landscape, because it is in motion. Given the relatively small strain rates, it is not sufficient to simply collect point data using a handheld GPS receiver from a fixed position. Millimeter scale accuracy is required to resolve small movements over short timescales, making it necessary to post process the data using precise satellite orbits (ephemeris). There are a number of free online services for post processing data, and

initially I used Precise Point Positioning (PPP) from the Canadian Spatial Reference System's website.

PPP uses precise satellite ephemeris to determine the coordinates of a GPS receiver. GPS files collected by the receiver contain broadcast ephemeris that only estimates satellite positions. However, precise ephemeris files give exact locations of satellites, resulting in more robust solutions than those using broadcast ephemeris. However, as a consequence of ice motion, 24-hour solutions received from PPP had small errors, but were misleading. As the algorithm detected the moving GPS receiver, it attributed much of the motion to the atmospheric model. This model assigns some of the error in position to tropospheric delay that includes weather-related disturbances. The reported error in the position of the receiver is artificially small, and the position solution is not optimal.

To address this issue, an appropriate time window was chosen for the data that split each 24-hour file into 3-hour segments. The ice motion during this time was essentially the same as the error in position, so it was feasible to assume that the receiver's position was fixed over that time span. Windowing is important in glacier surveying because it reduces the computational burden by not having to process every 15 second point position kinematically. One can determine how many of the 15 second files to aggregate and essentially assume that the position is not changing during that time. By choosing a proper time window, processing is simplified without compromising the integrity of the results.

To further improve the solutions, I compared solutions from PPP with another processing package called Scripps Coordinate Update Tool (SCOUT; uses the GAMIT/GLOBK algorithm from MIT) and the errors in the SCOUT solutions were significantly smaller. The difference in error was attributed to SCOUT's use of fixed bedrock points (Fig. 2-7) in addition to precise satellite ephemeris in its position solutions, whereas PPP only uses the precise ephemeris. Preliminary velocity was calculated by differencing the position in a Cartesian coordinate system at one site and calculating the change in position over time. By differencing the Cartesian coordinates of the 3-hour point position solutions between two receivers, we also calculated preliminary strain at two sites in the ablation zone.

Since SCOUT determines positions using an algorithm that includes an ocean loading parameter, our velocity results included a spurious diurnal tidal signal that was an artifact of the processing (King 2004). In addition, in spring 2006, a fixed base station was installed on bedrock near Jakobshavn, about 40 km from the center of our network (point 'KAGA', Fig. 2-8). Since the distance to the fixed base stations used by SCOUT resulted in solutions generated using an average baseline length of ~650 km, the proximity of the KAGA station would greatly improve the accuracy of our solutions. Solutions were also improved because KAGA ran continuously over the melt season as opposed to the intermittent nature of one of the stations (see Fig. 2-7, station KELY) used by Scout.

In an effort to attain the most precise results, the method of calculating strain was changed from differencing GPS point positions (XYZ) to determining baselines through a

network-adjusted survey. In January 2007, I began working with an engineering software package called Trimble Geomatics Office (TGO). TGO calculates distances between GPS receivers (baseline lengths) using position data, a fixed base station (KAGA), and precise satellite ephemeris parameters. TGO allowed me to determine the change in the length of baselines between each of the receivers.

Figure 2- 7. Map of Greenland showing the locations of the fixed GPS stations (kulu, kely, and thu3) used in SCOUT position solutions relative to the study area (Swiss Camp).

With an appropriate time window for the data, we assume that the baseline is not changing. Similar to the windowing technique for point position solutions, it is important to choose a timeframe where the uncertainty in the baseline length is on the order of the

baseline length change. In this way, it is valid to assume the baseline does not change significantly over the chosen window. The initial baseline measured by TGO between two points served as the original fixed length and measurement was repeated over a 24-hour time interval to determine a final length. For consistency, the 4th time segment (9am to noon) of the daily GPS file was used for each receiver in each TGO project. Because of data quantity limitations of TGO software, files shorter than 30 minutes, or longer than

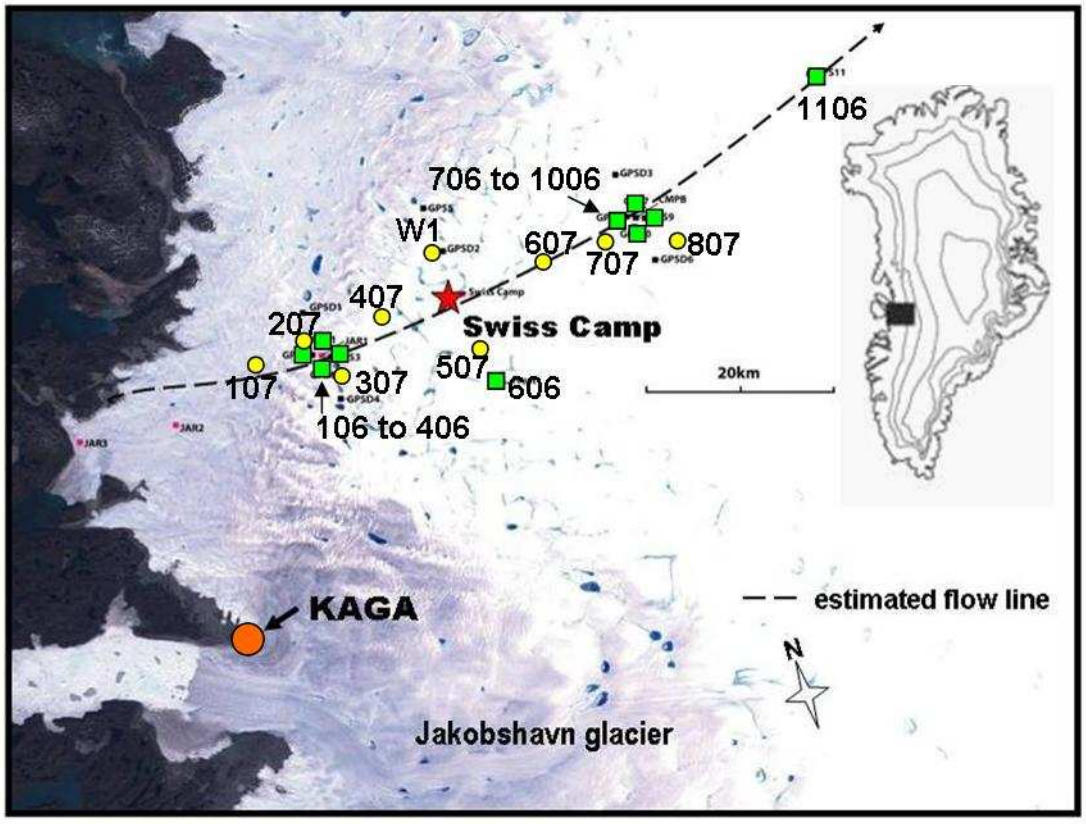

Figure 2- 8. Satellite image of study area (Swiss Camp) showing the proximity of the fixed base station (KAGA) used in TGO baseline processing.

6 hours provided poor results (large error or unresponsive software). The optimal solutions (related to geometry of satellites) seemed to result from comparing baseline

changes between each receiver over a 24-hour span using the 4th time slice from each day on consecutive days.

I analyzed time series of ice velocity to identify acceleration events common among several receivers; these events became the focus of GPS baseline processing. A least-squares network adjustment was performed on each 24-hour project to minimize error by distributing the error over all baselines in the network. Our network in 2006 included both long (~35 km) and short (~1.5 km) baselines. However, long baselines introduce error because of excessive range to the fixed base station (KAGA), and the changes in short baselines were frequently smaller than the uncertainty in baseline length. Error was minimized in 2007 by rearranging our receiver placement to survey intermediate length baselines (between ~5 and 15 km). In this way, we eliminated the problems of excessive range, and insignificant baseline length changes.

We calculated daily strain-rates for each baseline in the network, using Equation 2-4. Following convention, positive strain-rates are extensive and negative strain-rates are compressive. Background strain rates were calculated using data obtained prior to the onset of melt. We assume that background strain results primarily from internal deformation (ice creep) and any differential basal sliding between stations.

To identify the onset of the melt season and therefore the onset of variable inputs of melt to the hydrologic system, I used hourly averaged air temperature data provided by the Greenland Climate Network to calculate positive degree days (PDD) (Braithwaite, 1995). The PDD sum for an N-day period is a weighted sum of days with temperatures at or above 0° C and is found by the following equation:

$$\text{PDD} = \sum_{t=1}^{N} H_t T_t \,, \qquad (2\text{-}5)$$

where N is the number of days in the period of interest, and the variable H_t (a weighting factor) is dependent on T_t (air temperature in degrees Celsius, rounded to whole number) such that $H_t = 1$ when $T_t \geq 0°$ C; and $H_t = 0$ when $T_t < 0°$ C.

McMillan and others (2007) found the mean average annual number of positive degree days at Swiss Camp for the years spanning 1996 to 2005 was 94. Following the method of Braithwaite (1995), I calculated and plotted the PDD for 2006 and 2007, and analyzed the resulting graphs (see Fig. 5-1 and Appendix C-3). Onset of melting was determined by the succession of uninterrupted days with temperatures at or above 0°C. Steep increases in PDD were interpreted as periods of intense melting. PDD were compared with the timing of significant changes in strain rates to investigate the correlation between strain variation and onset and intensity of melt.

2. Error propagation

The uncertainty in calculating strain is dependent upon the root-mean-square (RMS) error from baseline solutions, determined by distributing error over the entire network. Error distribution is achieved through a least-squares network adjustment constrained by setup errors in instrument height and antenna centering (Trimble corporation, 1999). The RMS baseline error is influenced by the quality of base station

data, the satellite geometry, tropospheric interference, and length of the baseline. To arrive at an error value for strain calculations, I added the associated RMS error to the final baseline length, subtracted the associated RMS error from the original baseline length, and used these two values in the strain equation, maximizing the ratio to get an upper limit for strain. I minimized the ratio by subtracting the RMS error from the final baseline length and adding the RMS error to the original baseline length to get the lower strain limit. By differencing these values with the original strain-rate calculation, I determined the error for each strain rate.

Strain-rate error varied greatly between the two seasons and among individual baselines within each GPS network configuration. Significantly large errors were usually attributed to length changes that were comparable to RMS errors. Errors in longitudinal strain rates between ablation and inland arrays for 2006 were, on average, 41% of the calculated strain rate. Considering the small length changes associated with background strain, and larger baseline RMS (due to longer baseline length), average errors were significantly higher for baselines to GPS 11, reaching 67% of the calculated strain rate. Errors within the ablation and inland arrays were 58% and 36% of the calculated strain rate, respectively. Although these baselines were only ~1.5km in length, the background strain rate is typically smaller than the error, so few of the calculations were significant (Appendix C-1). The revised geometry of the GPS network in 2007, designed with intermediate baseline lengths and ample power supply, led to a more robust data set and smaller uncertainty. The average longitudinal error from the ablation zone to the accumulation zone was 31% of the strain-rate calculation. Average strain-rate errors for

the ablation zone, equilibrium zone, and accumulation zone were 33%, 28%, and 51% of the strain-rate calculations respectively.

CHAPTER III: LITERATURE REVIEW

A. Ice sheets and climate-related change

Scientists have measured the movement of glaciers for over 200 years. During this time, advances have been made with respect to understanding different controls on glacier mass balance and ice flow, but many uncertainties remain. More work has focused on valley glaciers than ice sheets, in part, because of the relatively obvious physical changes in valley glaciers over recent decades. However, recent concerns with changes in the mass balance of Greenland and Antarctica and resulting sea level rise have attracted international scientific interest to the study of ice sheet dynamics (IPCC, 2007). This interest is heightened by the substantial societal and economic impacts of sea level rise such as coastal erosion, increased storm surges, groundwater contamination through saltwater intrusion, and inundation (Alley and others, 2005).

Although both the Greenland and Antarctic ice sheets have responded to rising air and ocean temperatures over the past few decades, variations in geography, climate and morphology (e.g. boundary conditions) cause the ice sheets to respond differently to the warming climate. Variation also exists within Antarctica itself whereby the East Antarctic ice sheet is comparatively stable but West Antarctica is not. West Antarctica has much larger embayments and floating ice tongues that are grounded below sea level, making it far more sensitive to rising sea levels (Weertman, 1974; Mercer, 1978). Bindschadler (2006) explains that heat delivered beneath the floating ice by warm ocean water can melt the ice from below. His work provides an explanation for outlet glacier melt at both polar ice sheets. However, over 70% of the ice in Greenland terminates on

land and the ice there also exhibits signs of thinning and acceleration, therefore there must be additional dynamics involved (Krabill and others, 1999).

It has been suggested that ice sheet response to climate change is on the order of centuries to millennia (Paterson, 1994). In contrast, recent research suggests that newly recognized, poorly understood processes may increase ice response times to increases in air temperature from Millenia to days (Zwally and others, 2002; Overpeck and others 2006). If this is correct, many current model projections may underestimate the contribution of ice sheets to sea-level rise.

B. Climate-related changes observed in Greenland

Krabill and others (1999, 2000) used airborne laser altimetry to measure ice thickness on the margins of Greenland. This set of studies used two pairs of repeated flight paths five years apart to investigate surface elevation change. Their data revealed pervasive thinning on the margins of the ice sheet that cannot be explained by surface melting alone, suggesting an interplay of ice dynamics and feedbacks due to climate forcing. These measurements were among the first to suggest that changes were taking place in the profile and mass balance of the ice sheet. Seasonal ice acceleration was observed via GPS data ~40 km inland of the western margin at Swiss Camp (Zwally and others, 2002). The authors suggested that their findings may explain the additional thinning, but quantitative estimates of drawdown from the velocity increases were not calculated.

Recent estimates by Thomas and others (2006) show an increase in net mass loss from 57 to 105 Gt yr^{-1} between 1999 and 2004 for areas below 2000 m elevation

attributed to warming air temperatures. Modeling efforts by Parizek and Alley (2004) show the effects of continued perturbation of mass balance due to CO_2 forcing of climate under varied global warming scenarios. The predicted result is that warmer temperatures result in more accumulation in the interior, more mass loss at the periphery; leading to steeper surface slopes, increased driving stresses, and increased ice velocities. As this scenario progresses, the dry snow zone is likely to migrate inland, involving a larger percentage of the ice sheet in this rapid (decades as opposed to millennia) response to warming.

Changes similar to those predicted by Parizek and Alley (2004) may already be materializing. Graverson and others (2008) found that temperature amplification in the Arctic results in air temperature increases that are nearly twice the global average. Work by Steffen and others (2004) analyzed passive microwave data spanning 25 melt seasons from 1979 to 2003, and found an increase in summer melt both in duration and extent. The melt season generally begins in mid to late May, and extends to late September, showing annual variation of ± 2 weeks at either end. The authors document anomalous melt in the 2002 season that extended over 690,000 km^2, compared to an average melt extent of 455,000 km^2 from 1979-2003. More recent work by Tedesco (2007) reported that the 2007 melt season attained Greenland's fifth highest melting index since 1988. This melt collects at the surface forming lakes that may be up to several kilometers across that are either interconnected by channels or isolated (Joughin and others 2006). Joughin and others (2006) identified 1300 of these supraglacial lakes across parts of Greenland, and described their drainage into the ice sheet, sometimes slowly and sometimes

catastrophically via giant sinkholes called moulins. Melt water from these and other sources may reach the bed, providing lubrication that reduces basal drag and results in acceleration (Zwally and others, 2002; Alley and others, 2005).

Perturbations in ice sheet velocity are particularly troubling as the controlling mechanisms are insufficiently constrained and the Greenland ice sheet presently ranks third in estimated contribution to sea level rise (IPCC, 2007). Observations by Rignot and Kanagaratnam (2006) using satellite radar interferometry detected widespread glacier acceleration in Greenland as high as 70 degrees north latitude between 1996 and 2005. The authors described changes in the motion of the glacier, but did not explain the mechanics driving the motion. Similar work by Joughin and others (2008) used InSAR speckle tracking along the western margin to compare velocities over 2 time periods in August, 2006. They detected a "general" seasonal increase of ice velocity reaching 50-100% above the September to December average. The lower estimate of 5-28% increase found by Zwally and others (2002) may be due to their comparison of seasonal velocity to an annual average which is likely higher than the September to December average (often the slowest time of the year) used by Joughin and others (2008). Despite that difference, the values are somewhat similar, and Joughin and others (2008) showed that the speedups correlated well with periods of increased melting suggesting that enhanced sliding was the cause.

C. Previous work on glacier dynamics

Increases in basal water pressure through seasonal meltwater penetration to the bed have been well documented in valley glaciers where the ice is relatively thin and

temperate (Fountain and Walder 1998; Anderson and others, 2004; Truffer 2005). In thicker, subfreezing ice found in ice sheets, theory indicates that meltwater penetration to the bed is possible with a sufficiently large and rapid supply of meltwater (van der Veen, 2007). Early season accelerations (hereafter called 'spring events') caused by changes in basal resistive stress are common among valley glaciers (Mair and others, 2003). Increased meltwater at the bed reduces basal resistive stress and increases ice velocity through enhanced sliding, sediment deformation, or longitudinal stress coupling up or down glacier. Research by Rippin and others (2005) suggests that short-term velocity variations (hours to days) are not caused by sediment deformation because of the time required to dilate or de-water the sediment. Their research suggests that changes in basal resistive stress caused by increased basal water pressure, resulted in locally forced velocity increase about mid-way along the centerline of glacier mídre Lovénbreen in Svalbard. They also observed a surface velocity increase down flow of the original velocity anomaly, which they interpret as non-locally forced longitudinal coupling from the faster–moving ice up flow. Longitudinal strain rates during the event show extension in the region up flow from the origin, and compression toward the glacier margin.

Bingham and others (2008) suggest that both the forcing mechanisms and the glacier response evolve rapidly as the melt season progresses. This idea is echoed by many studies through the notion that the efficiency of the basal drainage system is dynamic, particularly near the beginning of the melt season, as the volume of supraglacial melt water increases and connections to the bed (and at the bed) are established (e.g. Gudmundsson, 2002; Anderson and others, 2004; Rippin and others, 2005; Bartholomaus

and others, 2007; Bingham and others, 2008). Early in the melt season, poor connection often results in a temporary increase in basal water pressure, which allows bed decoupling and enhanced sliding. Later in the melt season, the drainage system adjusts to accommodate and disperse the basal water by widening conduits or establishing connections to a wider array of basal cavities. Following this dispersion, basal water pressure drops and sliding decreases (Anderson and others, 2004). When water pressures are relatively low, conduits and cavities may collapse or close by creep deformation, reducing the efficiency of the system. These flow restrictions cause water pressure to increase with the delivery of additional high-volume pulses of melt (Bartholomaus and others, 2007).

Once the melt season begins, Copland and others (2003) identify two timescales over which basal dynamics operate. First, they describe widespread steady inputs of melt over a large spatial extent that result in a relatively low-magnitude, general ice speedup over the duration of the melt season. Additionally, they describe rapid, local delivery of high-volume inputs that result in short-duration, high-magnitude motion events over a more limited spatial scale.

Zwally and others (2002) suggest that local seasonal meltwater penetration to the bed can explain recent observed seasonal accelerations of 5 to 28% near Swiss Camp Greenland. This hypothesis was supported by a ground-based study by Das and others (2008) who observed a lake drainage event near the western margin of Greenland that reached the bed of the glacier through what they describe as ~ 1 km of subfreezing ice. They theorized that the cumulative effect of many of these drainage events could explain

the general acceleration detected by Joughin and others (2008). Work by Rippin and others (2005) on midre Lovenbreen glacier in Svalbard suggests that short-term velocity variations are caused by enhanced sliding but are primarily non-locally forced by longitudinal stress coupling. Results from a 2D ice flow-model showed that seasonal accelerations at Swiss Camp could also be explained by longitudinal stress coupling initiated by velocity changes closer to the margin (Price and others, 2008). It is reasonable to deduce from these studies that the velocity variations near Swiss camp are due to a combination of discreet, local melt inputs, and the non-local effects of longitudinal stress coupling.

To help clarify the dominant forcing mechanism, investigations by Catania and others (2008) used low frequency RES profiles and 3D migration techniques to locate moulins within the study area near Swiss Camp and assess the potential for a surface to bed connection. Although two features in the ablation zone appeared to connect to the bed, unambiguous conclusions could not be reached regarding moulins near the equilibrium line. Thus, the ultimate cause of the velocity variations at this field site is still uncertain (Catania and others, 2008).

Short-term basal stress regime changes often manifest in surface strain-rates as strain reversals or changes well beyond background strain rates (Balise and others, 1985; Hooke and others, 1989; Gudmundsson, 2002; Sugiyama and Gudmundsson, 2004). Gudmundsson (2002) detected a spring motion event on Unteraargletscher, Bernese Alps, Switzerland that was accompanied by high horizontal strain-rates (0.03 a^{-1}) as compared with mean annual values (-0.02 a^{-1}). The event occurred after a period of intense spring

melting when the drainage system was incapable of quickly dispersing the water, leading to increased water pressure at the bed. Along with velocity, Gudmundsson (2002) measured longitudinal strain between 3 stakes labeled A, B, and C, on the surface of the glacier (with A closest to the terminus). The motion event began on May 11 at stake C, had a propagation speed of 0.1 km h^{-1}, and lasted 2.5 days. Strain rates were originally compressive between C-B and B-A, but as the event progressed over 24-hours, the longitudinal strain switched from compression to extension, reflecting stress transfer (from an area of low stress to an area of high stress).

The magnitude of tensional stress (extension) determines whether crevassing will occur. Surface crevasses can coalesce into moulins and act as a funnel, delivering high volumes of melt directly to the base of the glacier (Das and others, 2008). Nath and Vaughn (2003) analyzed the resulting expression of brittle failure in ice and concluded that failure occurs at a tensional stress threshold of 100 kPa. A model by van der Veen (1998) predicts crevassing with tensile stresses larger than 30-80 kPa. The relationship between driving stress, basal resistive stress and resulting strain in ice has been used widely by other researchers to investigate and explain changes in ice dynamics over the melt season in many temperate and polythermal glaciers (Hooke and others, 1989; Nath and Vaughn, 2003; Sugiyama and others, 2003; Sugiyama and Gudmundsson, 2003).

D. Previous ice dynamics research at Swiss Camp

Despite the wealth of research available on temperate glaciers and warm-based polythermal glaciers, few ground-based studies of stress and strain have focused on predominantly cold, polythermal glaciers and fewer still have examined the seasonal

dynamics within the grounded margin of the Greenland ice sheet (Rippin and others, 2005). One such study by Zwally and others (2002) included a four-year field campaign to investigate velocity changes at Swiss Camp. The study incorporated GPS measurements from a single site, recording for 12 hours per day, every 10-15 days, spanning June 1996 to November 1999. The processed data show a definitive seasonal acceleration of 5 to 28%, which the authors correlated to positive degree days (*PDD).* The authors suggested that the timing of accelerations was directly related to the onset of the melt season, and that enhanced sliding due to melt water reaching the glacier bed was the primary cause. However, the findings were spatially limited by the use of only one receiver, and the temporal resolution may not have captured important short duration variability.

Geodetic measurements to investigate elevation change, flow velocity, and strain rates have been recorded by Stober and others (2003; 2004) at Swiss Camp since 1991. Although their field area was only ~20 km^2, it was more spatially extensive than Zwally and others (2002) in that they surveyed a network of stakes set up in two triangular arrays to increase the spatial coverage and enable the derivation of strain measurements. Data from their 2004 report show that the surface elevation at Swiss Camp has decreased by 4 meters since 1991. Ice flow velocity was variable from 1994 to 2004, but showed a slightly increasing trend with an average annual rate of 31.8 cm per day. Calculated strain rates showed a near linear long-term trend from 1994 to 2002, but there was an abrupt change in the trend between 2002 and 2004 that was accompanied by an increase in melt extent and duration. It is possible that this deviation from previous measurements

was simply an anomaly, but it is also possible that it may indicate a trend of increased strain near the equilibrium zone.

CHAPTER IV: PAPER SUBMITTED TO ANNALS OF GLACIOLOGY

Analysis of Spatial and Temporal Variations in Longitudinal Strain Rates near Swiss Camp, Greenland.

Julie A. Rumrill[1], Thomas A. Neumann[1], Ginny A. Catania[2]
(1) Geology Department, University of Vermont, Burlington.
(2) Institute for Geophysics, University of Texas, Austin.

Abstract

A two-year baseline network survey of longitudinal (along-flow) strain-rates on the western margin of the Greenland ice sheet revealed an increasing rate of extensional strain coincident with a high melt year, suggesting a hydrologic link. We investigated variations in longitudinal strain-rates over the melt season using baseline network solutions derived from GPS data from ten receivers installed along a flow-line through Swiss Camp, Greenland in 2006 and 2007. The spatial and temporal evolution of strain-rates along the flow line were analyzed and used to determine the locus of initiation and the extent of strain associated with observed short-term, high-strain events. In both seasons, longitudinal strain-rates became variable shortly after the onset of melt changing up to ~ 15 x 10^{-4} a^{-1} within 24 hours. Strain analysis revealed both small-scale (1-4 affected baselines) and large-scale (5 or more baselines) strain events originating in the ablation zone and inland of the equilibrium zone that impacted stations more than 30 km along-flow. Although the cumulative seasonal effects of both large-scale and small-scale strain events were modest (~5m change in baseline length), variability in both melt volume and strain in 2006 and 2007 suggest they may become more pronounced with increasing temperatures and available melt.

Introduction

Greenland has been a focus of recent scientific activity since anomalous thinning on the margins of the ice sheet was investigated by Krabill and others (1999, 2000). The measured thinning cannot be explained by surface ablation alone, suggesting interplay between ice dynamics and feedbacks due to climate forcing (Krabill and others, 1999, 2000). Tedesco (2007) reported that the 2007 melt season set a new record, becoming Greenland's fifth highest melting index since 1988. Melt water collects on the surface of the ice sheet through the summer forming numerous supraglacial lakes, many of which drain either partially or completely (McMillan and others, 2007) through surface streams or moulins (Thomsen, 1991). Large intra and interannual changes in the volume of these surface lakes were observed by Sneed and Hamilton (2007). It has been both shown theoretically (van der Veen, 2007) and observed directly (Das and others, 2008) that surface lakes can drain via crevasse propagation to the bed, causing increased subglacial water pressure and acceleration of the overlying ice mass. Das and others (2008) documented an observed lake drainage event on the Western margin of Greenland, south of Jakobshavn and roughly 10 km downstream of the equilibrium line area (ELA). Here rapid delivery of lake water to the base of the ice sheet was associated with localized acceleration and uplift. It is uncertain how much of the surrounding area was affected by this event and if lake drainage events are capable of triggering widespread ice sheet acceleration and instability as suggested by Zwally and others (2002). Here we focus on

seasonal variations in strain-rates likely caused by seasonal meltwater penetration to the bed.

In order to determine the spatial extent of the effects of seasonal drainage events on ice deformation and the implications of the ice sheet response to these events, we investigate variations in longitudinal strain-rates during the 2006 and 2007 melt seasons. Because of the relationship between driving stress, basal resistive stress, and strain in ice, strain variations at the surface may be used to infer changes in basal stress, which are often manifested as strain reversals or changes in strain-rates above background rates (Hooke and others, 1989; Gudmundsson, 2002; Sugiyama and Gudmundsson, 2004). Additionally, strain-rate changes may also be useful in estimating the amount of expected vertical strain (resulting from longitudinal extension or compression), although this requires high-resolution (cm to mm scale error) elevation data. Using a baseline network survey we assess the magnitude and extent of seasonal strain-rate variations and how they relate to observed velocity changes; we investigate the spatial and temporal evolution (or 'phasing') of strain events along the flow line; and assess the implications of cumulative changes in baseline length over the entire span of the melt season. Since glacio-morphological conditions in the vicinity of this field site are typical of about 70% of the margin of Greenland (Knight 1999), seasonal strain analysis in this area may allow broad inferences into the behavior of the strain regime at other marginal sites as well.

Study area

The instrumented flow-line passes through Swiss Camp, located in west-central Greenland (65.57˚ N, 49.31˚ W), and curves westward toward the grounded ice edge (Fig. 4-1). Swiss Camp, central to our study area, is in the equilibrium zone; ~ 35 km from the ice edge and 510 km from the ice divide (Wang and others, 2002). At this location, the ice sheet is approximately 1200 m thick (Catania and others, 2008). Results from a thermo-dynamic ice model suggest that the basal temperature is above the pressure melting point from 400 km northeast of Swiss Camp to the ice edge (Wang and others, 2002). This prediction suggests that wet basal conditions are predominant year-round and that part of the background strain is due to basal sliding.

In 2006, our study area spanned 120 km^2 from the ablation array to station 1106, our furthest point inland (squares in Fig. 4-1). In 2007, revised placement of GPS stations (circles in Fig. 4-1) increased the spatial extent of our study area to ~512 km^2. The fixed base station used to reference GPS positions was located on exposed bedrock near the outlet of Jakobshavn glacier, ~40 km from our study area (see KAGA on Fig. 4-1).

Methods

Fieldwork

During the 2006 field campaign we installed ten Trimble 5700 dual-frequency receivers following a method described by Anderson and others (2004) and collected continuous data at a 15-second sampling frequency. The installation included two arrays

of four GPS receivers each (numbered 106 to 406 in the ablation zone and 706 to 1006 inland of the ELA) and one additional receiver (1106) to record far-field ice velocity (Fig. 4-2a). Snow drifting over solar panels created intermittent power supply issues in the 2006 season, particularly for the inland array, thus data retrieval rates varied across the entire network. Rates for the ablation zone array, the inland array, station 606, and station 1106 were, respectively: 85%; 39%; 89% and 100%. Because of close spacing, analysis of the 2006 data set allowed us to determine the spatial scale over which horizontal velocity variations were uniform. Our aim in 2007 was to capture larger spatial scale variations in velocity. To do this, we installed nine, Trimble 5700 dual-frequency GPS receivers in an altered geometry: eight receivers were placed along flow to investigate longitudinal strain and velocity variations from the accumulation zone to the ablation zone; and two receivers were also used to investigate transverse strain and velocity variations around the equilibrium line (Fig. 4-2). We installed an additional solar panel and battery at each station increasing data retrieval rates for the 2007 GPS network to 88%, 80%, and 99% for the lower, middle, and upper flow-line locations, respectively. No data were retrieved from station 1106 due to equipment malfunction.

Data processing

We analyzed time series of ice velocity to identify acceleration events common among several receivers; these events became the focus of GPS baseline processing. Each 24-hour file was split into eight, 3-hour segments. We assume that the receiver position is fixed over this time span as the ice motion during this time window was essentially the

same as the error in position. The three-hour GPS files for each receiver were used in Trimble Geomatics Office software (TGO) to create individual 24-hour projects in order to determine lengths of the baselines throughout the GPS array every day. TGO's algorithm performed a least-squares network adjustment on each 24-hour project, distributing the error over the entire receiver network. Our network in 2006 included both long (~35 km) and short (~1.5 km) baselines. However, long baselines introduced error because of excessive range to the fixed base station, and short baselines did not record ample change beyond uncertainty. Error was minimized in 2007 by rearranging our receiver placement to survey intermediate length baselines (between ~5 and 15 km).

Daily strain-rates were calculated for each baseline in the network, using the baseline length and the logarithmic equation for strain:

$$\frac{d}{dt}(\varepsilon) = \frac{1}{\Delta t} * \ln\left(\frac{\ell_f}{\ell_o}\right) \qquad (4\text{-}1)$$

where ε is the horizontal strain, Δt is the time interval between measurements, ℓ_o is the initial distance between points, and ℓ_f is the final distance between points. Following convention, positive strain-rates are extensive and negative strain-rates are compressive. Background strain-rates are determined from data obtained prior to the onset of melt. We assume that background strain results from internal deformation and any steady basal motion.

The uncertainty in strain calculations is dependent upon the RMS error from baseline solutions and the magnitude of the baseline length change. To arrive at an error

estimate for strain calculations, we added the associated RMS error to the final baseline length, subtracted the RMS error from the original baseline length, and used these two values in the strain equation, maximizing the ratio to get an upper limit for strain. We minimized the ratio by subtracting the RMS error from the final baseline length and adding the RMS error to the original baseline length to get the lower strain limit. By differencing these values with the original strain-rate calculation, we arrive at the error associated with a particular strain-rate.

Strain-rate error varied greatly between the two seasons and among individual baselines within each GPS network configuration. Errors in longitudinal strain-rates for 2006 were, on average, 41% of the calculated strain-rate. Considering the small length changes associated with background strain, and larger baseline RMS (due to longer baseline length), average errors were significantly higher in baselines to station 1106, reaching 67% of the calculated strain-rate. Errors within the ablation and inland arrays were 58% and 36% of the calculated strain-rate, respectively. Although these baselines were only ~1.5 km in length, the background strain-rate is typically smaller than the error, so average error was based upon event strain-rates (which had greater length change). The revised geometry of the GPS network in 2007, designed with intermediate baseline lengths and ample power supply, led to a more robust data set and smaller uncertainty. The average longitudinal error from the ablation zone to the accumulation zone was 31% of the strain-rate calculation. Average strain-rate errors for the ablation zone, equilibrium zone, and accumulation zone were 33%, 28%, and 51% of the strain-rate calculations respectively.

We used air temperature data provided by the Greenland Climate Network to calculate positive degree days (PDD) (Braithwaite, 1995) and to determine the onset of melting for each year. Periods of steep increases in the positive degree sum were interpreted as periods of intense melting.

Results and discussion

During both the 2006 and 2007 melt seasons, there were several events that affected one to four baselines. These small-scale events were often associated with small (<10 cm) changes in elevation and likely resulted from movement of subglacial melt water. In each season, however, there were also events that occurred over a large spatial scale, involving the majority of baselines in the network.

Placement of stations in 2007 afforded better spatial coverage along flow and allowed us to estimate the location of event initiation. This was determined by looking at three factors: where the strain appeared first along the network; location of most pronounced strain changes during the event; and the sign of strain rate compared with location of baseline along flow.

2006 season, event one

A consistent deviation from background strain-rates occurred in the ablation array at the onset of Event 1, on day 201, ~ 14 days after the onset of melting. The transverse baseline (106 to 406) became extensive as the along-flow baseline (206 to 306) became compressive over 24 hours (Fig. 4-3a). Elevation data from the ablation array (not

shown) reveal a gradual but steady increase in elevation (~5 cm) at stations 106 through 406 during this strain event. Although some of this elevation change was likely the result of the initial compression along-flow within the ablation array, elevation continued to rise even as along-flow compression holds steady and decreases on day 207. This suggests some of the uplift may be attributed to increasing basal water pressure.

The longitudinal background strain-rate (calculated using baseline 206 to 806) between the ablation zone array and the inland array was compressional, but we observe a switch to extension on day 201, coincident with changes in the ablation array (Fig. 4-3b). Longitudinal strain-rates between the two arrays returned to compressive strain by day 205.

Analysis of baselines between the inland array (station 806) and 1106 (Fig. 4-3c) and baseline 806 to 906 (along-flow, Fig 4-3d) reveal insignificant changes on day 203 that are within error bounds. This suggests that event one occurred over a small spatial scale in the ablation array and affected only three baselines within the network, transmitting no significant strain to the inland array.

2006 season, event two

The first expression of Event 2 occurred along the baseline from 806 to 1106, which shows a gradual decrease in compression beginning on day 222 eventually becoming extensive on day 225 and continuing into day 226 (Fig. 4-4a). The baseline from 806 to 1006 (Fig. 4-4b) shows a reversal from compression to a peak in extensive strain occurring suddenly on day 226; while baseline 806 to 906 (along-flow) shows

increased extension. The velocity data show an initial acceleration in the inland array and subsequent acceleration ~36 hours later in the ablation array. A larger compressive signal was expected within the longitudinal baselines (e.g. 2 to 8, Fig. 4-4c) prior to the observed extension; however, this was not the case. This suggests the likelihood of a well-lubricated bed down-flow, allowing the ice to slide without much compressive strain. Although it was difficult to estimate the location of initiation because of the span of the longitudinal baselines in 2006, the change in sign of strain rates suggests it may have begun near the inland array. In addition, strain changes appeared in baseline 806 to 1106, and the inland-array baselines first, and their magnitude was larger than subsequent changes down flow.

Longitudinal baselines shifted from compressive to less compressive or slightly extensive on day 227 (Fig. 4-4c). In the ablation array (Fig. 4-4d), baseline 206 to 306 (along-flow) became compressive during day 227, coincident with extension in baseline 106 to 406 (transverse to flow) reflecting the down-stream evolution of this event. We determined the rate at which the strain event appears at other sites along the flow-line (hereafter referred to as 'propagation speed') by dividing the change in distance by the elapsed time. The propagation speed for Event 2 was ~1.5 km hr^{-1} in the downstream direction.

There was no elevation change associated with this event at either array, suggesting that the pulse of meltwater likely responsible for this event was dispersed through sufficiently large subglacial pathways that raised pressure enough to cause

sliding without significant elevation change. We characterize Event 2 as a large-scale strain event affecting eight baselines within our study area.

2007 season, Event 1

The onset of the melt season in 2007 occurred on day 153, 34 days earlier than 2006. Strain-rate variations also began earlier, as baselines 107 to 207 and 107 to 307 show significant changes on day 174 (Fig. 4-5a). The first large-scale event of 2007 had two strain peaks, as shown in the longitudinal strain plot (Fig. 4-8). The first part of this event began on day 177 near station 307 and resulted in increased compressional (or reduced extensional) strain among baselines in the ablation zone (Fig. 4-5a), coincident with increased extension along the baseline from 307 to 407. Minimal changes occur in the equilibrium zone and accumulation zones during this event; however, the baseline from 507 to 607 (Fig. 4-5b.) and the baselines within the accumulation zone all show a trend of increasing extensional strain into day 182. Synchronous with this extension up-flow, 307 to 507 and 407 to 507 (Fig. 4-5b) became more compressive.

The secondary strain increase during Event 1 occurred on day 182, and originated in the vicinity of GPS 507. All baselines down-flow of station 507 (Figs. 4-5a and 4-5b) show a short-lived (~1 day) increase in compressive strain. Concurrently, the baselines up-flow from 507 became extensive (Fig. 4-5b and 4-5c).

There was a ~10 cm elevation increase at 307 on day 176, prior to the onset of Event 1, and smaller elevation increases (~5cm) at all other stations within the ablation and equilibrium zones. Velocity also increased at all stations during Event 1, most

notably at 307 between day 176 and 178 (from ~35 cm d^{-1} to 60 cm d^{-1}) and also at 507 between day 182 and 183 (from ~50 cm d^{-1} to 80 cm d^{-1}).

We define Event 1 as a large-scale, compound event that affected 11 baselines within the network, that propagated down-flow at a speed of ~0.7 km h^{-1}. The spatially broad, small-magnitude uplift suggests the transient storage of melt water at the bed, and increased basal water pressures, which generated short-term sliding.

2007 season, Event 2

The second large-scale event of 2007 began on day 188 near station 507 in the equilibrium zone, where there was a tripling of compressive strain over 24-hours in the baseline between 407 and 507 (Fig. 4-6a). Strain reversals occurred in baseline 407 to 507 between days 189 and 190. This suggests the event originated near, but downstream of 507, and elevation data (not shown) reveal uplift on the order of 15cm down-flow at 407 peaking on day 191, suggesting the migration of a subglacial meltwater pulse.

Synchronous with compression down-flow from the area of initiation, there was increased extension between 507 and 607, which also supports initiation near 507 (Fig. 4-6a). Further inland, baseline 607 to 707 (along-flow) shows an increase in extensional strain (Fig. 4-6b) as the ice responds to acceleration down-flow. Changes in 707 to 807 show a similar trend, but are significantly dampened, suggesting that effects from this event decay inland.

In the ablation zone, baseline 307 to 407 shows an increase in compressive strain peaking on day 190 followed by a reversal to extension 24-hours later (Fig. 4-6c). The

baseline from 107 to 307 (Fig. 4-6c) also shows peak compressive strain on day 190, but the return to less compressive strain is delayed compared to 307 to 407. Compression is also noted along 107 to 207 (not shown), but is dampened at this end of the flow-line as well.

The compressive strain associated with Event 2 in 2007 was greater than that of Event 2 in 2006. Although each of these events originated inland of the ablation zone, Event 2 in 2007 occurred earlier in the season (day 190) when subglacial drainage is typically less able to disperse a large pulse of meltwater efficiently (Anderson, 2004; Truffer and others, 2005), resulting in relatively greater initial longitudinal compression and subsequent decoupling as the meltwater migrates down-flow.

Event 2 in 2007 propagated down-flow at a speed of ~0.6 km hr^{-1}, compared to Event 2 in 2006 (occurring later in the season) which propagated at a speed of ~1.5 km hr^{-1}. Although Event 2 in 2007 propagated relatively slowly, it was a large-scale event affecting 15 baselines within the network. This supports the concept that poorly connected basal hydrology existed early in the melt season, when the melt was likely dispersed as a fairly uniform sheet, thereby able to affect a larger area of the bed, rather than being diverted into subglacial channels and affecting a more localized area.

2007 season, Event 3

The expression of Event 3 was similar to Event 2, but the strain increases over individual baselines were less pronounced. The event initiated in the equilibrium zone, likely near station 407, with all baselines upstream from 407 showing increased extension

on day 198 (Fig. 4-7a). In the ablation zone, the transverse baseline (T207 to 307) became extensive, accommodating longitudinal compression along-flow (Fig. 4-7b). Baseline 107 to 207 shows extension due to a presumably unrelated acceleration downstream of 107 during this same time.

Baselines located up-flow became more extensive or less compressive concurrent with changes in the ablation zone to more compressive strain. However, inland of station 607 (baseline 607 to 707, Fig 4-7c), strain changes were unremarkable. In addition, there was no significant increase in velocity (< 4cm/day) inland of 607, which negates sliding at this location and indicates that the effects of the strain perturbation down-flow had no effect on ice this far inland.

Unlike Event 2, there was no significant elevation signal associated with this strain event, suggesting that any volume of meltwater input that may have triggered the event was either quickly dispersed through well-developed drainage, or water input occurred well outside of the instrumented flow-line. The initiation point was close enough to alter the strain, but far enough removed to leave the elevation unchanged.

Event 3 was a large-scale event, affecting ten baselines within the network. Overall, the propagation speed (1.6 km hr^{-1}) was significantly faster than Event 2, 2007 (0.6 km hr^{-1}). Additionally, it is interesting to note that this result is similar to the 2006 season in that there was an elevation change within the early-season events but not the latter one, and is consistent with the concept of a dynamic and evolving drainage system over time (Anderson and others, 2004; Truffer, 2005). Assuming a connection between hydrology and strain variation, the occurrence of these three large-scale events relatively

early in the year requires a large volume of available meltwater to act as a trigger. The positive degree day calculation for 2007, totaling 138 days, suggests that this requirement was fulfilled.

End to End Longitudinal strain, yearly summary

We compared longitudinal strain behavior among baselines of similar length in 2006 and 2007 to investigate variations during the course of each season (Fig. 4-8). Baseline 206 to 806 (~36 km in length) and baseline 307 to 807 (~37 km) exhibited similar compressive background strain-rates of $-3.04 \times 10^{-6}\ d^{-1}$ and $-1.84 \times 10^{-6}\ d^{-1}$, respectively.

There are significant data gaps between late June and early July 2006 for baseline 206 to 806. However, other longitudinal baselines (206 to 1106 and 306 to 1106) strongly suggest that background rates prevailed until ~day 200. In addition, there are no indications from the velocity data of significant acceleration events during that time, and data from the Greenland Climate Network show that average daily air temperature at Swiss Camp was not predominantly above freezing until around day 189 in 2006. The positive degree day (PDD) sums are 95 and 138 for the 2006 and 2007 melt seasons respectively. Correlating well with the above-average PDD sum (McMillan and others, 2007), the 2007 strain-rate data show considerable variation, including three significant longitudinal strain events, prior to day 200. These events occur coincident with early onset of melting and lag sharp increases in PDD's by ~5 to 15 days.

Although the background strain-rates (prior to melting) are similar in each year, the average strain-rate over the season is compressive (-2.37×10^{-6} d^{-1}) in 2006 and slightly extensive (1.36×10^{-8} d^{-1}) in 2007. We attribute this result to more available melt in 2007 leading to more drainage events, and causing the increased strain variability.

During the 2006 melt season, longitudinal strain-rates (baselines 206 to 1106, 306 to 1106, and 206 to 806) remained near background until ~day 200, when a small-scale strain event occurred. Rates gradually became increasingly compressive until day 240, with short-term (days) variability and one large-scale event. This suggests that in 2006, the subglacial drainage system was able to disperse meltwater over the majority of the season, but the strain events represent episodes of rapid inputs of large volumes of melt, overwhelming the drainage system. As melt water availability diminished around day 235, indicated by the decline in positive degree days, we noticed increased compression over the longitudinal baselines.

The 2007 data show dissimilar behavior, with three episodes of highly extensive strain early in the season (between day 175 and day 195), and a general trend of increasing extensive strain through day 235. Analysis of positive degree days in 2007 reveals that melting continued until day 240, likely allowing continued sliding and the observed extension.

We estimated the expected amount of shortening during the 2006 season by extrapolating the background strain-rate over the span of data (97 days) and found that the amount of shortening would have been ~ 11 m. The actual amount of shortening calculated by differencing the final baseline length (at the end of data collection) from the

original baseline length (at the beginning of data collection) was ~ 9.4 m. Following this method, over the 93 day span of data in 2007, the background shortening would have been ~ 6.1 m. The actual amount of shortening was ~ 60 cm. Tedesco (2007) reported that 2007 was an anomalously large melt year and we attribute the differing dynamical behavior to the ability of melt water at the bed to generate sliding and associated longitudinal extension across the ablation and equilibrium zones. In contrast, the similarity between the observed and expected shortening in 2006 suggests relatively little sliding and associated extension and correlates with less available melt in that season.

The early onset and delayed cessation of the 2007 melt season is not unique, and likely will be repeated in the future. One year of extended sliding allows 6m of additional extension to lower elevation which is not alarming. As a fraction of the total ice flux, this is a minor contribution. However, if 2007 is followed by additional melt years, this minor contribution should be accounted for in estimates of ice sheet change.

Conclusions

High-strain events are abrupt, short-lived (hours to days) changes in strain rates that occur intermittently over the melt season, and deviate from background strain rates that exist prior to melting. The largest strain-rate variations occur shortly after the onset of melt, and again toward the latter part of the melt season, suggesting a hydrologic control. Large-scale, high-strain events affecting the entire study area occur infrequently; on the order of two events per season. These events likely result from rapid drainage of large volumes of supraglacial meltwater in close enough proximity to the study area to

perturb strain along-flow. These large events may effectively enlarge basal drainage pathways so that subsequent drainage events do not create as large an effect due to more efficient melt water routing at the bed. Small-scale events likely result from supraglacial drainage events further from the study area, or smaller drainage events within the study area. These events have a limited impact on basal drainage pathways and may be more easily routed causing only localized strain perturbation.

Analysis of timing of strain changes with the network show that during both small-scale and large-scale events, strain effects are observed over the length of the flow line within 1-2 days of initiation. The initiation sites of the observed events were not limited to the ablation zone, suggesting the existence of melt water pathways to the glacier bed into the equilibrium zone through >1 km of sub-freezing ice. Although bed connections have yet to be confirmed by radio echo sounding, potential pathways were directly observed in our field area by Catania and others (2008). In addition, features resembling relict water-filled crevasses were observed in the field area in 2007, near the location of station 207; between 107 and 207; between 307 and 407; and near 607. Each of these locations experienced episodes of high extensional strain for at least part of the melt season.

Sudden drainage of surface melt has been directly observed to trigger localized uplift, acceleration, and strain in the adjacent ice (Das and others, 2008). Our data support this observation and suggest that it occurs widely in both the ablation zone and equilibrium zone during the melt season. However, our results reveal only minor changes

in baseline length over the duration of the study, and suggest that the extent of this mechanism does not pose an immediate threat for ice sheet stability.

There is an apparently strong correlation between surface melting and strain-rate variations as evidenced by the timing of onset of melting, steep increases in PDD's during the melt season and variations in background strain. The relationship is confounded, however, by local variation in bed topography, the poorly understood basal drainage configuration, and the evolution of the basal hydrologic network.

An important direction for future work is to better understand the configuration of the drainage system by direct observation, possibly by a network of boreholes to gauge simultaneous water pressure changes along flow, and how flow conditions change over the melt season. A borehole network could also be useful to investigate the sediment conditions at the bed. Information of this type can be used to improve existing ice flow models as information regarding bed conditions is limited.

Due to the short duration and limited extent of the study, results would be more valuable in conjunction with similar studies in other areas of Greenland (e.g. Joughin and others, 2008) and for ground-truthing satellite derived strain measurements. In addition, it would also be useful to look at the strain events in a finer temporal resolution to isolate the origin more precisely. It would be useful, for example, to develop a software package geared specifically toward fine temporal scale strain measurements in ice because, although TGO was useful for this project, it was not designed for this application.

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List of figures

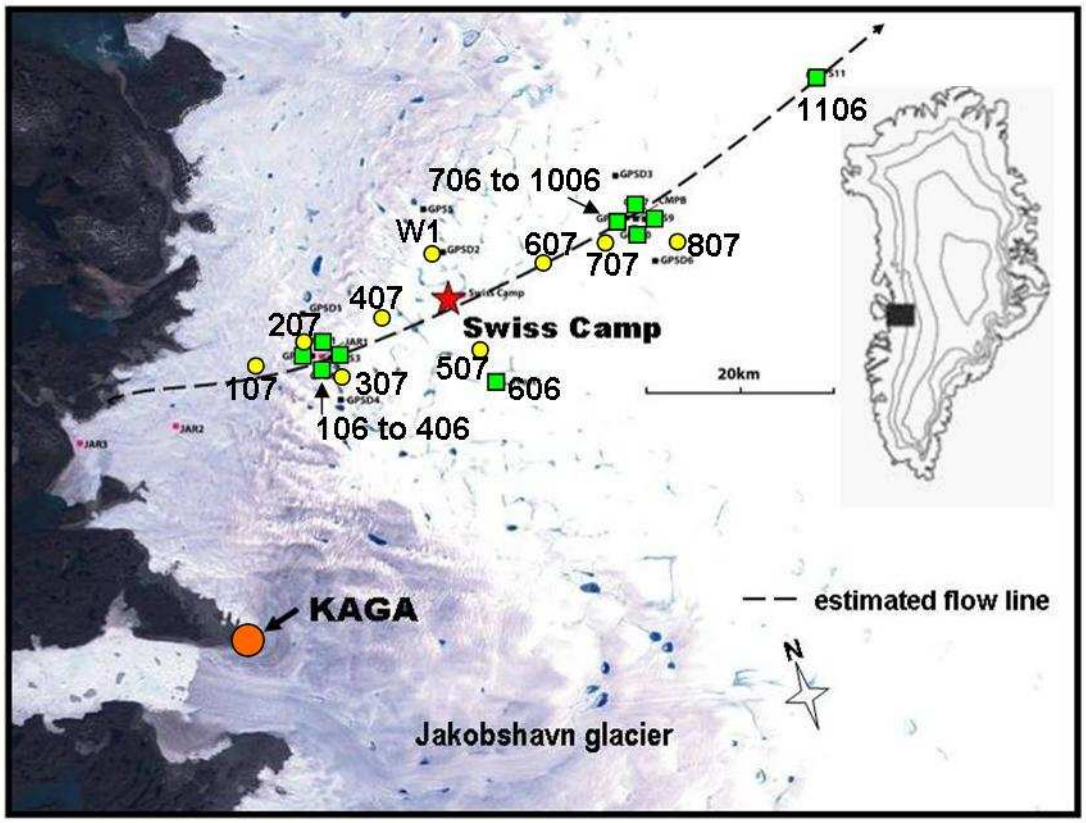

Figure 4- 1. Satellite image of our study area near Swiss Camp with inset showing field location in West-central Greenland. Square green markers represent placement of GPS stations for the 2006 season, identified sequentially as stations 106 through 1106 (506 was eliminated due to equipment problems). Yellow circles denote location of GPS receivers installed during the 2007 field season, identified sequentially as 107 through 807 and W1. Also shown is the location of KAGA, the fixed base station.

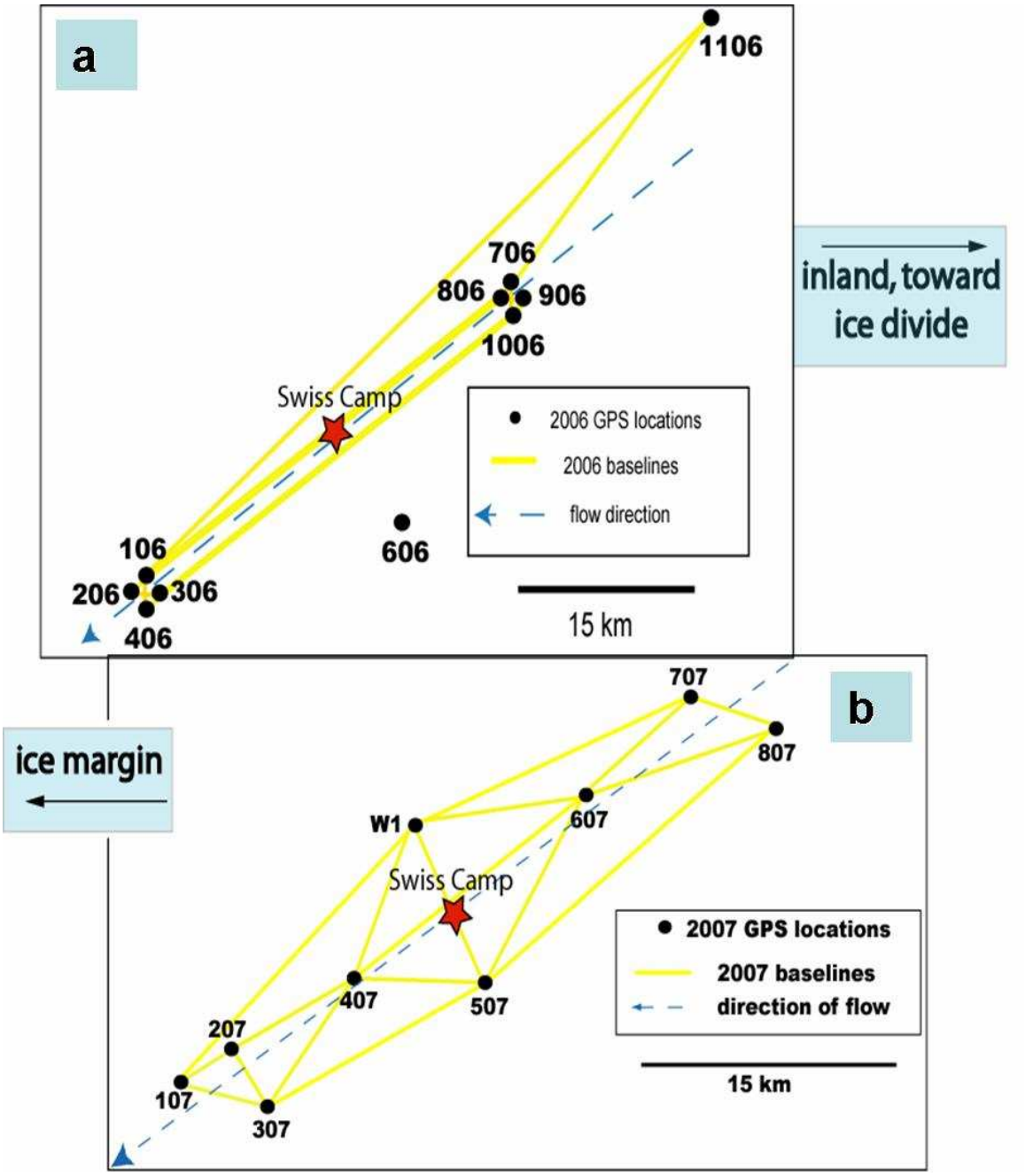

Figure 4- 2. Illustration showing the geometry of the GPS networks in: (a) the 2006 season and (b) the 2007 season. Solid yellow lines represent measured baselines, dashed blue lines show the approximate flow direction, and black circles mark GPS stations. The location of Swiss Camp is shown to orient the reader.

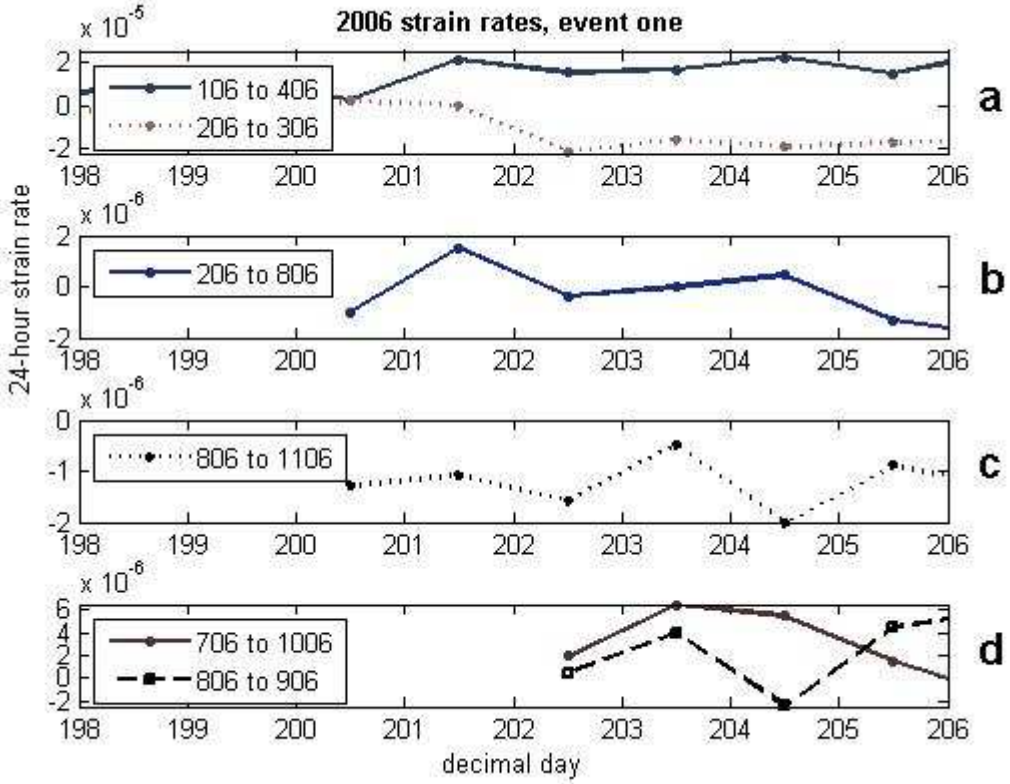

Figure 4- 3. Strain-rate changes within the 2006 baseline network during event one, day 201. Positive values refer to extension, and negative values refer to compression. (a) baselines within the ablation zone array; (b) Inter-array Longitudinal baseline; (c) Inland array to GPS 11; (d) Baselines within the inland array (note differing scale on y-axis).

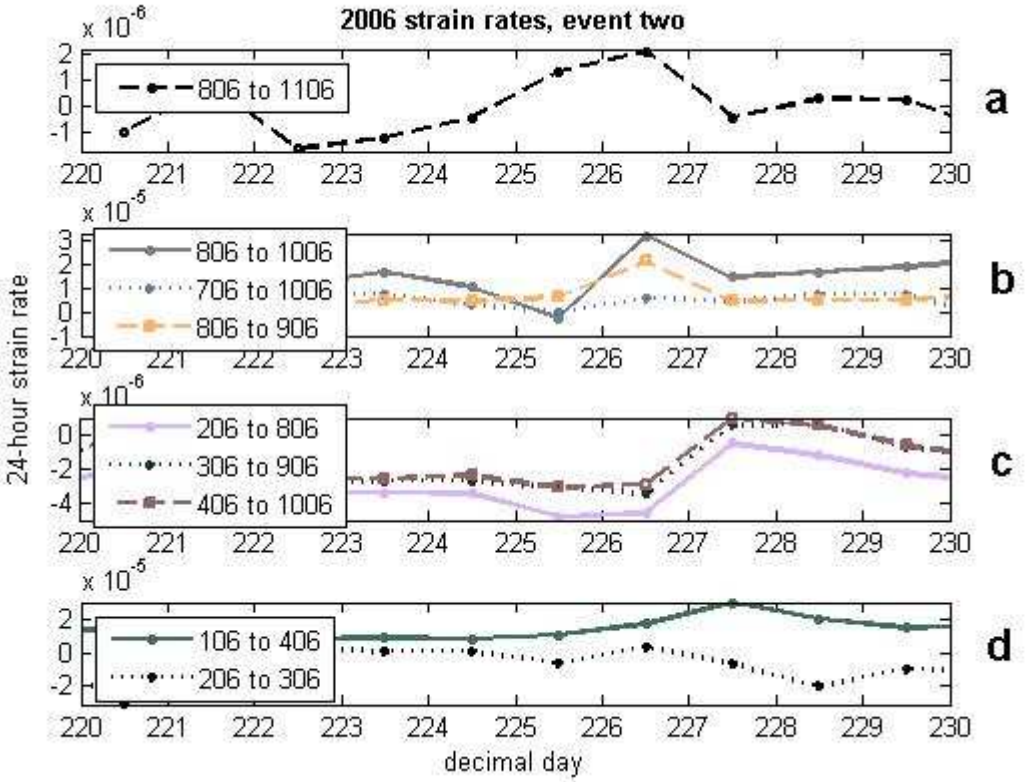

Figure 4- 4. Strain-rate changes within the 2006 baseline network during event two, day 225. Positive values refer to extension, and negative values refer to compression. (a) Inland array to station 1106; (b) baselines within the inland array; (c) Inter-array longitudinal baselines; (d) Baselines within the ablation array (note differing scale on y-axis).

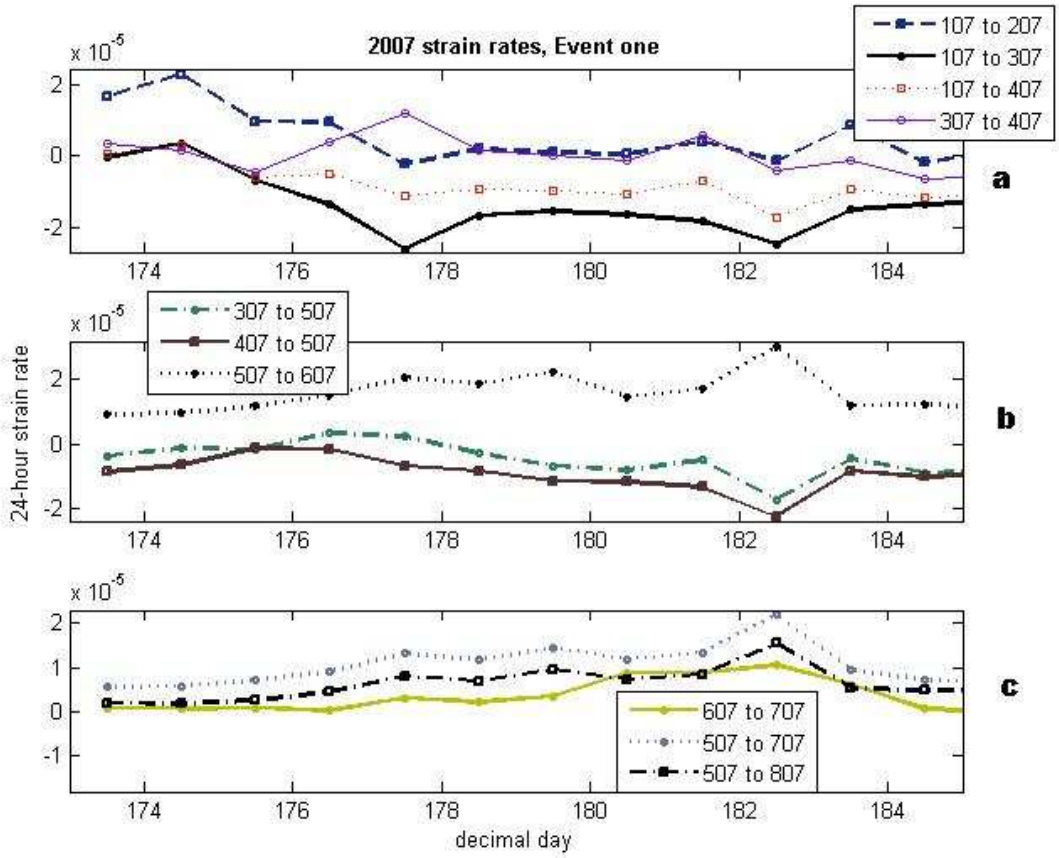

Figure 4- 5. Strain-rate changes within the 2007 baseline network during event one, day 177. (a) baselines within the ablation zone; (b) equilibrium zone baselines; (c) accumulation zone baselines.

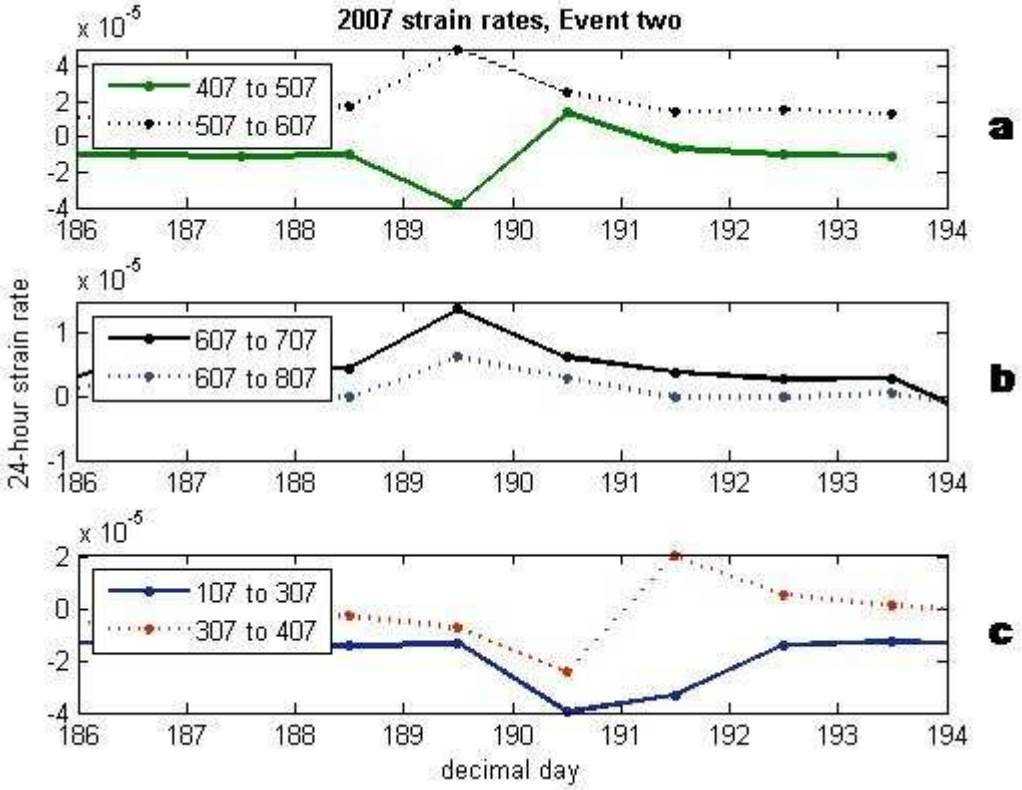

Figure 4- 6. Strain-rate changes within the 2007 baseline network during event two, day 189. (a) baselines within the equilibrium zone; (b) accumulation zone baselines; (c) ablation zone baselines.

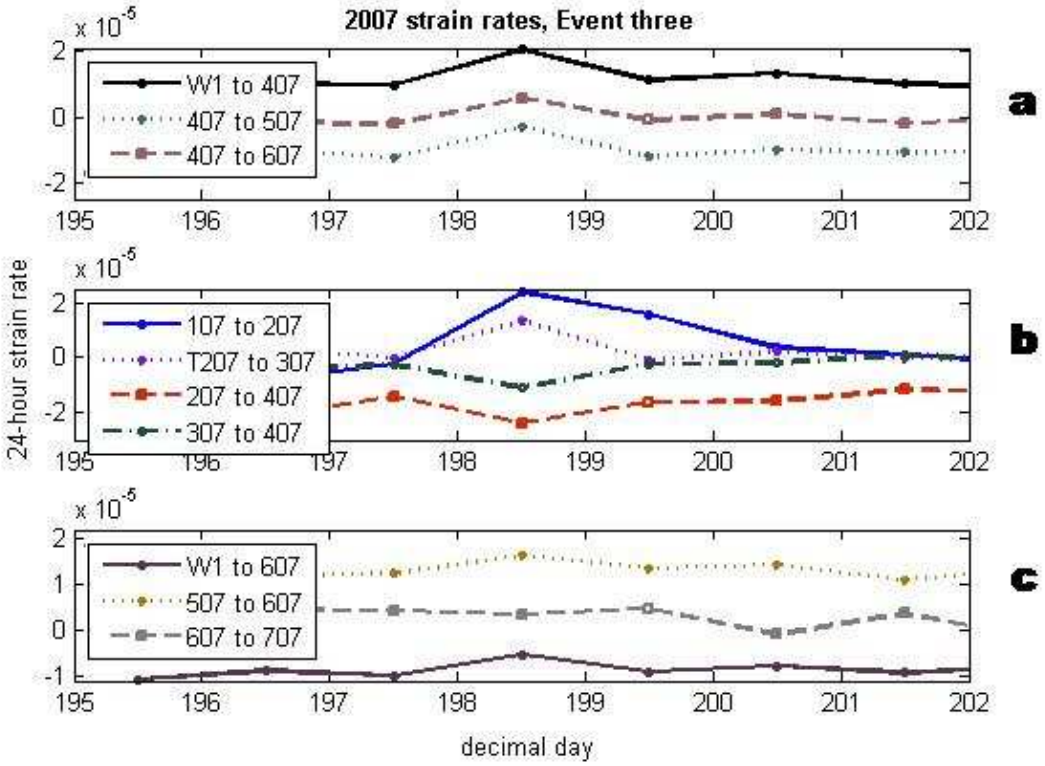

Figure 4- 7. Strain-rate changes within the 2007 baseline network during event three, day 198. (a) baselines within the equilibrium zone; (b) baselines in the ablation zone; (c).baselines from the equilibrium zone to the accumulation zone.

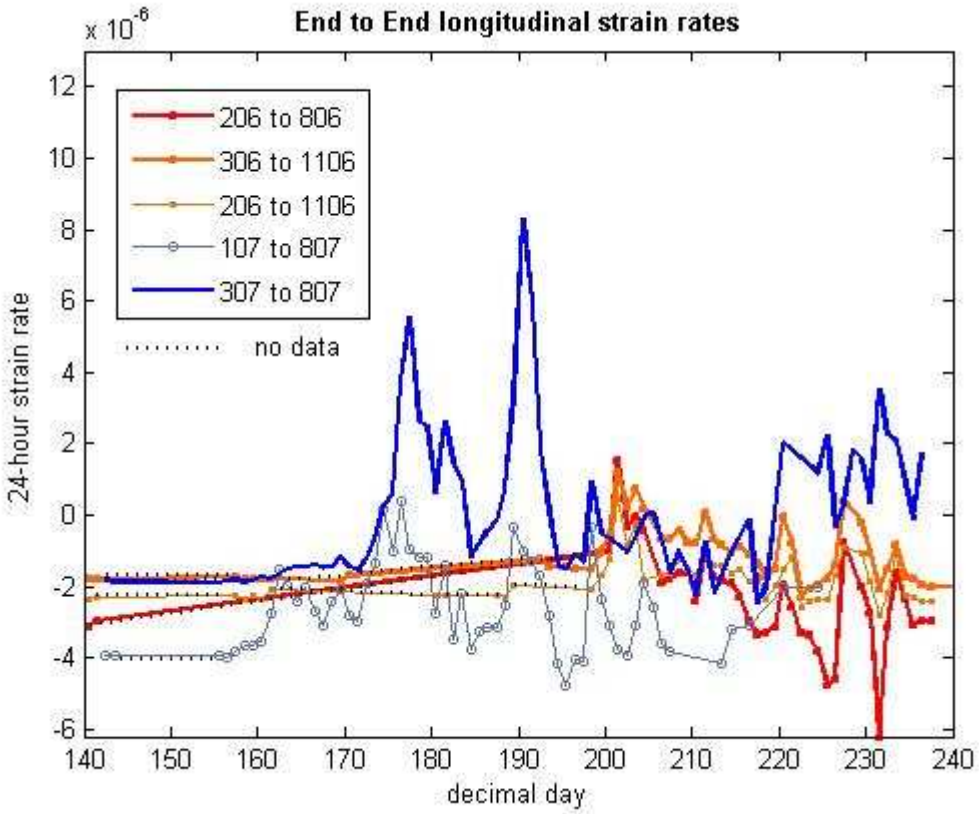

Figure 4- 8. Comparison of 24-hour longitudinal strain-rates from the 2006 and 2007 melt seasons, showing baselines 206 to 806, 206 to 1106, and 306 to 1106 from 2006; and baseline 307 to 807 from 2007. Dotted line segments indicate data gaps.

CHAPTER V: SUMMATION/CONCLUSIONS

A. Summary of findings

Data from this study revealed sub-annual to daily variability in longitudinal strain-rates. Strain-rate variation correlated well with the onset of melting as estimated through positive degree days (PDD's). McMillan and others (2005) found that the average number of PPD's at Swiss Camp for 1996-2005 was 94. In comparison, the number of PDD's calculated in this study for 2006 and 2007 was 95 and 138, respectively (Fig. 5-1).

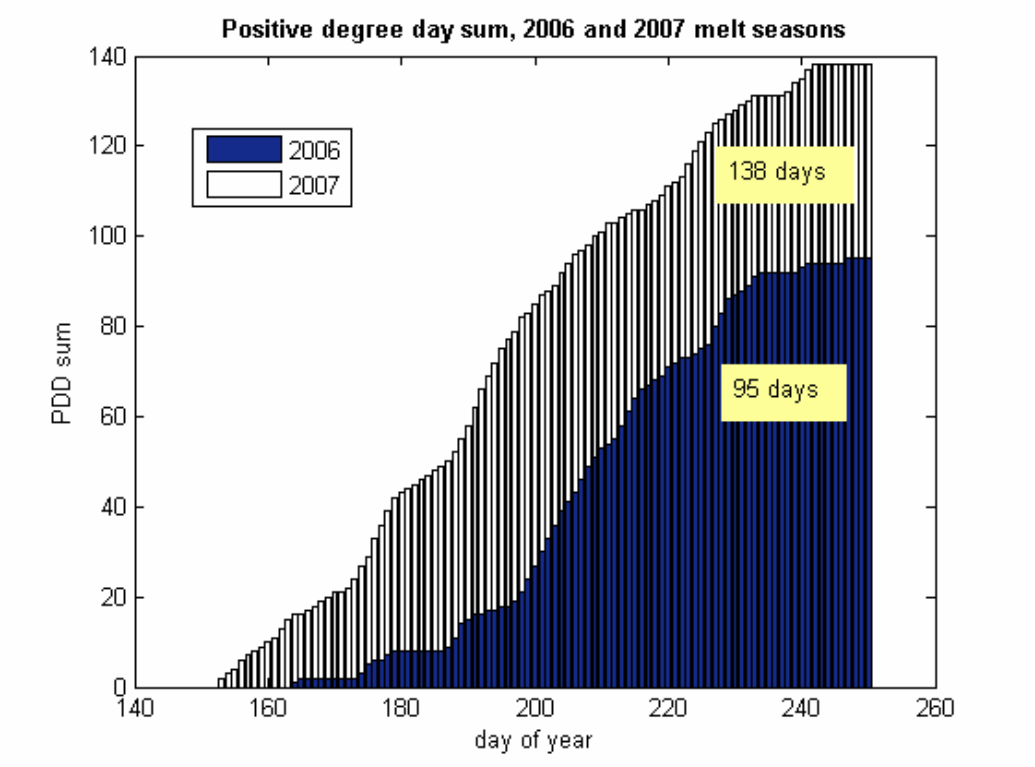

Figure 5- 1. Comparison of positive degree days for 2006 (blue) and 2007 melt seasons (white). Total number of positive degree days for each year is shown on the graph in tan boxes (air temperature data from Greenland Climate Network).

The majority of high-strain events occurred after steep increases in PDD sum. The largest strain-rate variations occurred about 3-4 weeks after the onset of melting, defined by five successive days of temperatures at or above 0°C. Using this definition, the onset of melt in 2006 was day 186, and considerably earlier in 2007, beginning on day 153. The first day of detectable changes in strain-rates beyond background in 2006 occurred in baseline 206 to 806 on day 200, 14 days after melt onset. In 2007, the first detectable change occurred in baseline 107 to 807 on day 162, 9 days after melt onset. Placement of GPS receivers in 2007 allowed me to capture the progression of strain up flow as the melt season got underway. Data show that baselines which include receivers at the ablation zone end of the study area show strain variations before baselines further inland (Fig. 5-2). This increase likely begins down flow where melting starts earlier and thinner ice allows meltwater to access the bed more readily.

Rapid motion events correlate well with timing of high-strain events (Fig. 5-3) as expected since they are both derived from the same GPS position measurements. If overlap did not occur, this would indicate that velocity events were felt uniformly (i.e sliding had taken place). The highest overall average seasonal velocities are at 507 and 807. GPS locations 307, 407, 507, and W1 experienced rapid motion events with greater magnitude compared to other sites along flow, and 107 deviated from background velocity earliest of all locations. Timing of onset of velocity increases was similar among receivers 207, 307, 407, and 507 (Fig. 5-4), and correlated well with timing of onset of strain-rate variation (e.g. Fig. 5-2). Seasonal velocity plots for each receiver show more and earlier velocity variation toward the margin with the least variation in 707 and 807

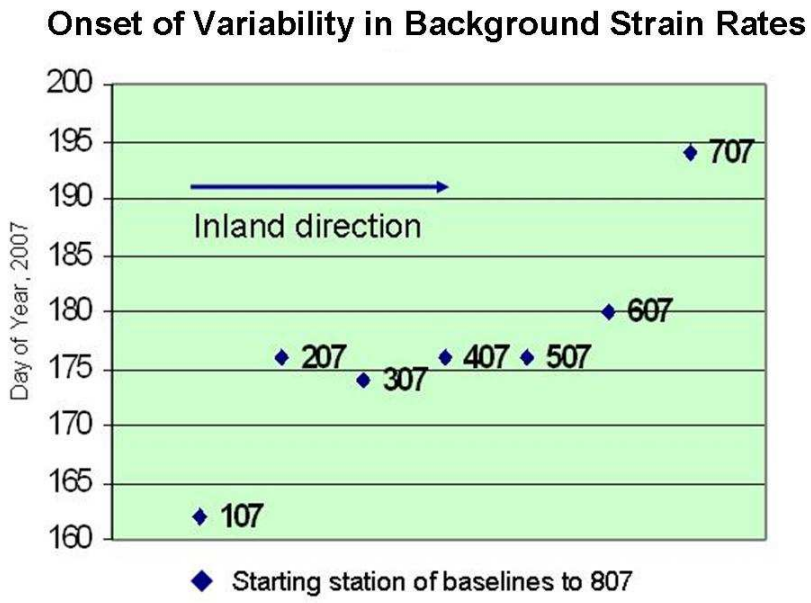

Figure 5- 2. The relationship between timing of onset of strain changes and relative position along flow. Baselines with starting stations closer to the margin showed strain variability earlier than baselines further inland.

(e.g. Fig. 5-4). The receivers showing the most velocity variation (primarily 307, 407 and 507) also were associated with the baselines showing the most variation in strain-rates (Fig. 5-5). The most variable baselines in the study area were 507 to 607 and 507 to 807, with percent variability at 39% and 42% of total number of days, respectively (Appendix B-5). The periods of significant speedup events (short-term velocity increases among several receivers) also resulted in the largest strain-rates (e.g. Fig. 5-4, Fig. 5-6, and Appendix C-2). These strain rates are of opposite signs in different segments of the flow line reflecting the phasing (or evolution) of strain events at different sites (Fig. 5-6).

Abrupt, short-lived (hours to days), high-strain events occurred intermittently over the melt season, causing a departure from background strain-rates that existed prior

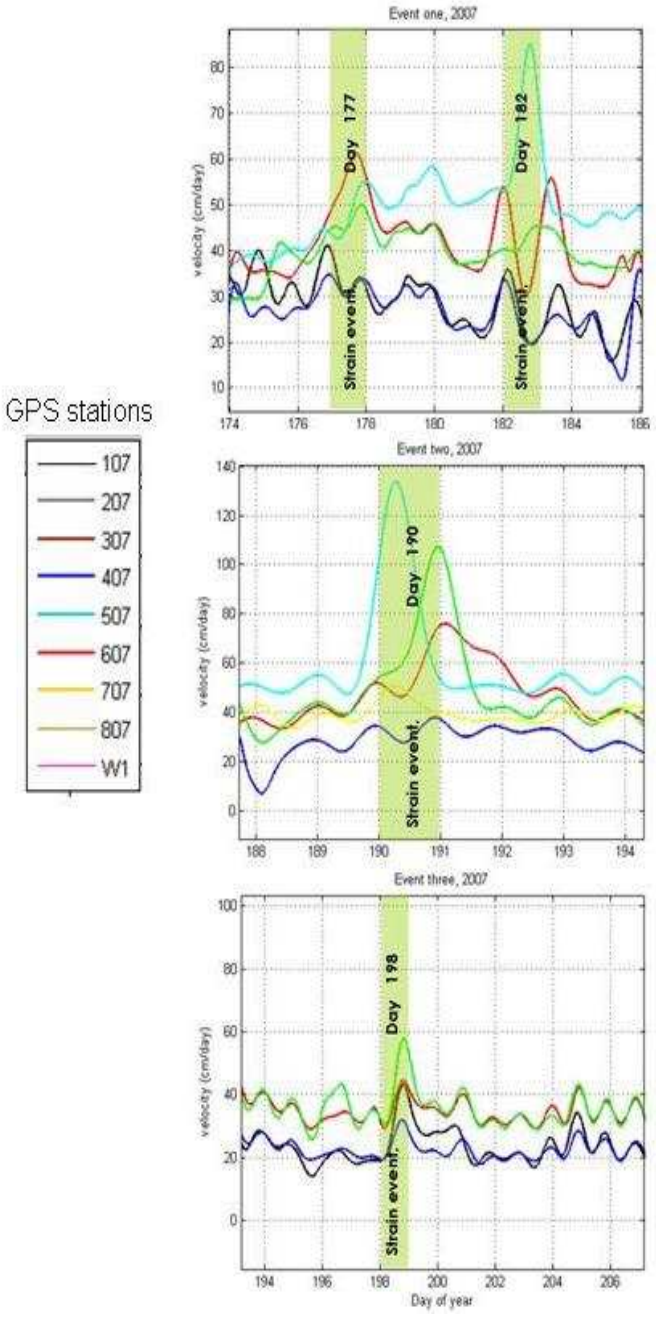

Figure 5- 3. Timing of high-strain events in 2007 correlates well with velocity changes. Strain-events are denoted by shaded green bars. a) Velocity during strain-event one; b) velocity during strain-event 2; c) velocity during strain event 3.

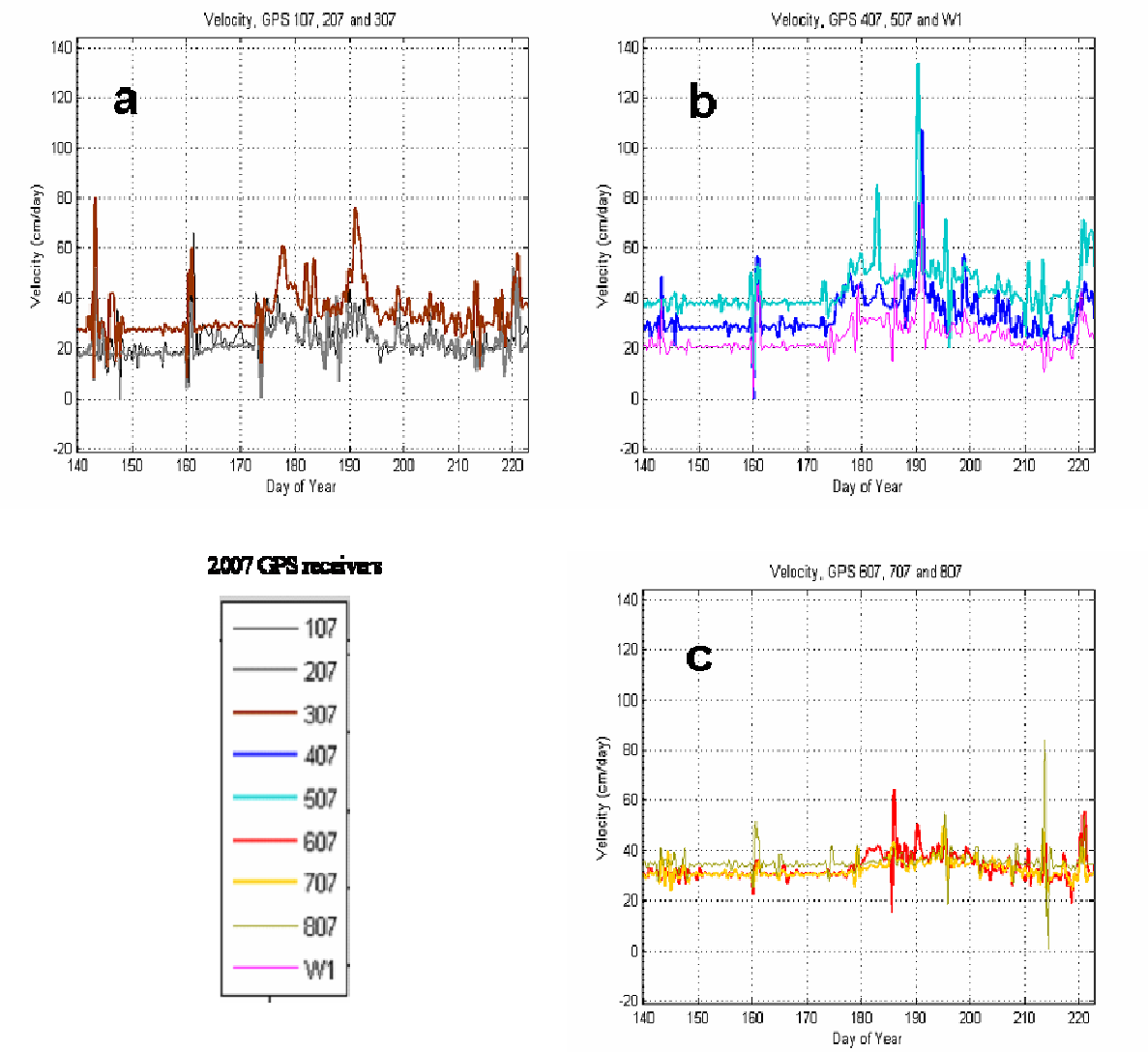

Figure 5-4.Time series of ice velocity for the 2007 melt season showing a) receivers in the ablation zone, b) near the equilibrium zone, and c) near the accumulation zone.space

to melting. Results (particularly in 2007) showed that during both small-scale (affecting 1 to 4 baselines) and large-scale (affecting 5 or more baselines) high-strain events, strain effects were observed along the flow line within 1-3 days of initiation (e.g. Fig. 4-3 to Fig. 4-7). Large-scale, high-strain events occurred infrequently and early in the season,

suggesting that the majority of events result in limited, local impacts on strain rates. Increased compression occurred when the initiation site was located near the up glacier end of the study area. Conversely, extensive or less-compressive strain rates were observed when the initiation site was near the marginal end of the study area. Baselines nearest the initiation site experienced the largest changes in strain rate and often resulted in a short-term (24-hour) change in sign from the background rate (e.g. Fig. 5-6) again, suggesting the limited spatial and temporal impact of individual, inter-seasonal strain events.

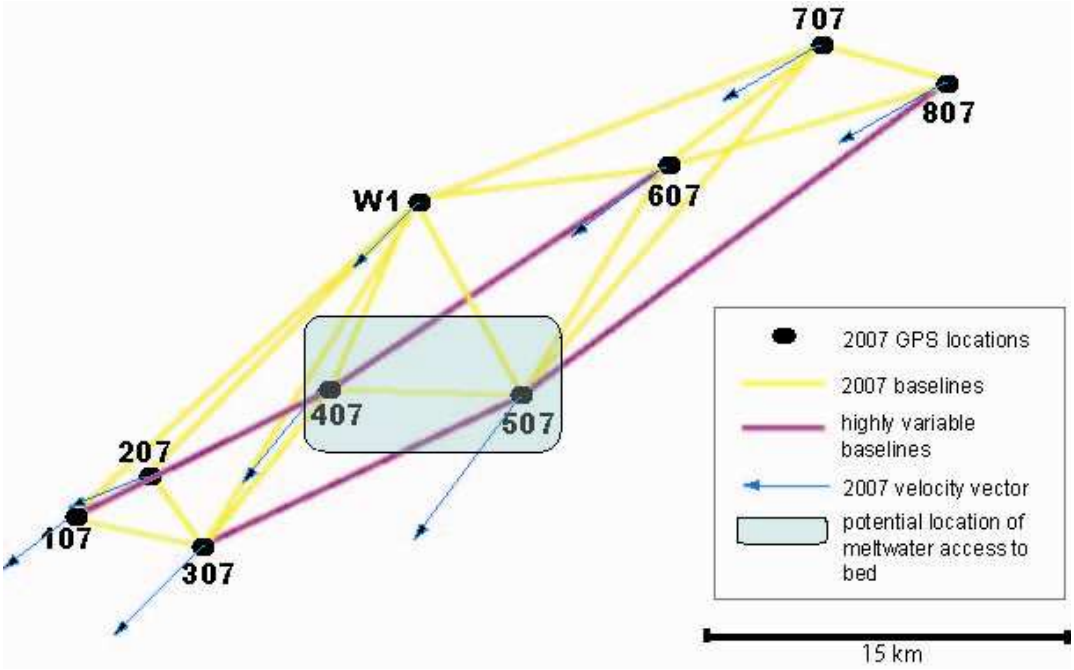

Figure 5- 5. Schematic of baselines for the 2007 season showing baselines with a high percentage of variability. Also shown are: GPS locations, velocity vectors, and a potential zone of meltwater access to bed.

The initiation sites of the observed events were not limited to the ablation zone, suggesting the existence of melt water pathways to the glacier bed into the equilibrium zone through >1 km of sub-freezing ice. Although I did not directly observe open

pathways, drainage features were detected by Catania and others (2008) using radio echo sounding. Additionally, features resembling relict water-filled crevasses were observed in the field area in 2007, near station206; between 107 and 207; between 307 and 407; and near station 607. Each of these locations experienced episodes of high extensional strain for at least part of the melt season. I also located a subsurface crevasse unintentionally with the steam drill near station 1106, suggesting that extensional strain reaches threshold limits for brittle fracture in this area as well.

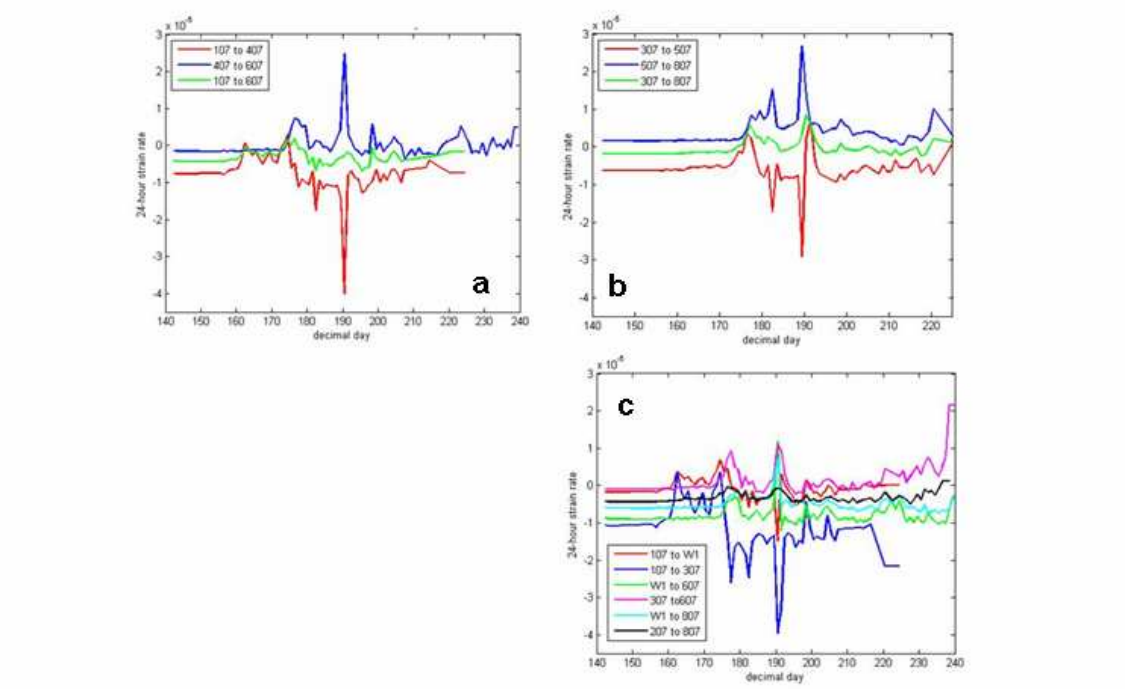

Figure 5- 6. Variability within 2007 baselines with respect to extensive and compressive strain-rates. Individual panels refer to: a) baselines associated with 407; b) 507; c) others.

Short-term variations in strain early in the melt season are associated with periods of rapid meltwater input to the subglacial drainage system. Similar relationships have also been observed in valley glaciers (Copland and others, 2003; Hooke and others, 1989; Gudmundsson, 2002; Sugiyama and Gudmundsson, 2004). The 'spring events' observed

in 2007 (e.g. day 177 and day 190) likely occurred during the establishment of connections between supraglacial storage and the subglacial drainage system. The first attempt at a connection is not always a permanent one, as creep closure may cut off this connection within ~1 day in relatively thick ice (appendix D). In the case of 2007, an initial event on day 177 was followed by a successive, larger magnitude event on day 190 that likely established a connection that apparently remained for the melt season; this is suggested by the lack of subsequent strain events of that magnitude.

Strain analyses indicated that the origin of the high-strain events was not limited to the ablation zone, but also occurred within the equilibrium zone. In order to gain perspective on the relative importance of these observations on the overall shortening or extensional strain on the ice, I assessed the cumulative effects of these high-strain events over each of the melt seasons in this study (Table 5.1). In 2006, extrapolation of the background strain-rate (prior to melt) over 97 days would have resulted in an overall longitudinal shortening of baseline 206 to 806 by ~ 11.0 meters. The observed change (obtained by differencing baseline measurements from the beginning of data collection and the end of data collection) was a shortening of ~9.4 meters, similar to what would be expected in the absence of these high-strain events. However in 2007, the expected change in baseline 307 to 807, calculated by extrapolating the background rate over 93 days, was a shortening of ~ 6.0 meters. The actual amount of shortening was less than 1 meter. This suggests that the occurrence of high-strain events in 2007 had a larger impact on baseline length, causing far less longitudinal shortening compared to 2006.

Table 5- 1. Comparison of annual end to end baseline length changes.

Baseline	Span of data	Background strain rate	Length (lo)	Length (lf)	Expected change	Observed length change
206 to 806 (2006)	97 days	-3.04×10^{-6} d^{-1}	36125.94 m	36116.57 m	-10.96 m	-9.37 m
307 to 807 (2007)	93 days	-1.84×10^{-6} d^{-1}	36628.36 m	36627.74 m	-6.14 m	-0.62 m

B. Conclusions

From these data, I infer that there is a strong link between subglacial hydrology and strain-rate variations measured at the ice surface. Rapid increases in meltwater delivery to the bed at discrete locations changed basal stress conditions and manifested as short-lived, high-strain events detected through surface GPS measurements. Increased basal water pressure to near overburden pressure allowed enhanced sliding through a decrease in effective pressure at the bed. During this rapid process, sliding continued as cavities formed and conduits were enlarged until the subglacial drainage system evolved to the point at which it could effectively disperse the high-volumes of melt, and strain rates returned to near pre-event values. Our data suggest that drainage events causing high strain had more of an effect in 2007 as compared to 2006, and that meltwater pathways may have reached the bed near stations 307, 407, and 507.

The 2007 melt year was characterized by an early onset of melting, above average PDD sum, and two large ‘spring’ strain events, suggesting a link between increased melt and increased strain. It appears that ‘spring’ Event 1 in 2007 (day 177) was insufficient to

cause major long-lasting changes in the subglacial drainage system, as shown by a second event 13 days later which apparently resulted in the evolution of a more efficient drainage system near that location, possibly due to greater water input. More efficient drainage was evident through the lack of repeat high-strain events (in the same location) for the remainder of the melt season despite a continuous high volume of melt input to the glacier.

The lack of an observed 'spring' event in 2006 can be explained by several plausible theories: 1) GPS receiver spatial coverage was insufficient to capture that event, particularly if it occurred in the same locations as in 2007 (near GPS 407-507, see Fig. 1.1); 2) the event observed on day 200 in 2006 was in fact a dampened spring event, occurring about 2 weeks after the onset of melting. There was relatively less melt in 2006 compared with 2007, which may have resulted in fewer significant high-strain events; or 3) because the onset of melting was more gradual and less intense than in 2007 (Fig. 5-1), the glacier may have been able to accommodate a gradually increasing volume of melt, preventing large high-strain events like those seen in 2007.

Temperature increases occur earlier in the season at lower elevation (McMillan and others, 2005) resulting in a longer melt season and greater melt rates closer to the margin. This combined with thinner ice in the ablation zone, likely reduced the effective pressure sufficiently to initiate local, enhanced sliding earlier nearer the margin. Surface-to-bed drainage connections first occurred close to the margin, causing local enhanced sliding, followed by extensional strain further inland through the effects of longitudinal stress coupling (Price and others, 2008). The progression of strain-rate variability that

began in baselines associated with station 107 and occurred further inland over time was reflective of the progression of increasing air temperatures, melt intensity, drainage events, and longitudinal coupling along flow.

Large-scale, high-strain events that affected the majority of the study area occurred infrequently and were likely the result of rapid drainage of large volumes of supraglacial meltwater in close enough proximity to the study area to perturb strain along-flow. Small-scale events likely resulted from supraglacial drainage events further from the study area, or smaller drainage events within the study area.

The evolution of strain along flow during Event 2 (2006) indicated that effects appeared about 35 km down flow within 72 hours. Longitudinal coupling has been estimated to operate over several ice thicknesses, but this distance is over 26 ice thicknesses. Perhaps a better explanation for this event may be the migration of a large pulse of subglacial water. I was not able to definitively conclude from my surface observations that the strain-rate changes for this event were due to a propagating pulse of water in the subglacial system due to the limited resolution of elevation measurements. However, considering the possible distance over which effects are observed, it would be difficult to explain Event 2 (2006) through longitudinal stress coupling, unless the motion event was of significantly higher magnitude and affected a larger fraction of the study area than Event 2 in 2007 (Price and others, 2008). Alternatively, effects may have appeared simultaneously at different locations along flow, but may have been the result of two distinct events.

Perhaps widespread enhanced sliding may dominate seasonal velocity increases nearer the margin, but in my study area, I saw evidence for local sliding from discrete drainage events that sharply elevated strain in the adjacent ice along flow, and caused a more subtle but measurable non-local effect through longitudinal stress coupling at distances of ~15 km. Intermittent rapid-drainage events in a particular area are likely to result in repeated high-strain events until the drainage system evolves in that location and is able to handle a steady, high volume of seasonal melt. The observed strain-events were differentiated from general enhanced sliding by the variable nature of the strain-rate data. If increased widespread sliding in the study area were the dominant cause of the seasonal speedup, the strain rate would be fairly constant over most of the baselines through time, since the ice sheet would be sliding uniformly. This is in contrast to my observations.

Sudden drainage of surface melt has been directly observed to trigger localized uplift, acceleration, and strain in the adjacent ice (Das and others, 2008). My data support this observation and strain-rate variability suggests that rapid drainage events occur in both the ablation zone and equilibrium zone during the melt season. I suggest that part of the velocity increase may be due to general enhanced basal sliding; however, the strain rate data suggest that longitudinal coupling is the dominant mechanism responsible for the evolution of the rapid motion events along flow. The averaging of many of these short-term accelerations over time may create the illusion of a 'general' velocity increase observed through satellite imagery from Joughin and others (2008).

By examining the velocity and strain data together, a zone of preferential strain became apparent near station 507 (e.g. Fig. 5-5 and 5-6). I conclude that there is

meltwater access to the bed near this location. This conclusion is supported by Price and others (2008) who used a flow line model to calculate the tensile stress in my study area. The results showed 2 regions of elevated tensile stress, one near the marginal end of the flow line (~100 kPa, near stations 207 and 307), and the other in the vicinity of Swiss Camp and station 507 (~ 50 kPa). As mentioned in Chapter III (previous work on glacier dynamics), theoretical work by van der Veen (1998) showed that tensile stresses above ~30-80 kPa would allow crevassing to occur and with a sufficient and sustained supraglacial water source, the crevasse could propagate to the bed of the ice (van der Veen, 2007).

Given that the 2007 melt season in our study area was longer and more intense than in 2006, the behavior of the ice sheet in 2007 may be viewed as an example of what can be expected in the coming years as the climate warms. Although my results show a change in dynamics from 2006 to 2007 attributed to larger and more rapid surface meltwater generation, the total change amounts to a decreased shortening of longitudinal baseline length by about 5 meters in 2007. This result poses no immediate threat to ice sheet stability. However, I infer that these discrete pulsed water inputs generate a strong local basal-motion response, and thus a rapid high-strain response as observed in this study. Over time, as air temperatures continue to rise, increased melt in Greenland will likely result in greater frequencies of pulsed water delivery to the bed, generating more rapid basal-motion events and greater extensional strain within the ice sheet, unless the subglacial drainage system evolves to accommodate this. There will also be increasing runoff and ice discharge, by allowing a greater flux of interior ice to reach the margin

where melting conditions prevail for a longer portion of the year. Thus small scale changes may become collectively important over long time-scales.

C. Future work

There is an apparently strong connection between surface melting and strain-rate variations as evidenced by the timing of onset of melting, steep increases in PDD's during the melt season and variations in background strain. Unfortunately, the relationship is confounded by complex and localized basal topographic variation, the poorly understood basal drainage configuration, and the complex and rarely studied evolution of that basal drainage configuration. An important direction for future work is to better understand the configuration of the drainage system by direct observation, possibly by a network of boreholes to gauge simultaneous water pressure changes along flow, and detailed radar work to investigate englacial and subglacial characteristics.

Due to the short duration and limited extent of the study, results would be more valuable in conjunction with similar studies in other areas of Greenland (e.g. Joughin and others, 2008) and for ground-truthing satellite derived strain measurements. In addition, it would also be useful to look at the strain events in a finer temporal resolution to isolate the origin more precisely. It would be useful for example, to develop a software package geared specifically toward fine temporal scale strain measurements in ice.

To attain a more comprehensive picture of glacier motion and dynamics, future work should focus on: collecting data regarding the configuration of the subglacial hydrologic system; using seismic reflection studies to examine the sediment conditions at

the ice/bedrock interface; and recording fine temporal scale velocity variations. These data should be compared with observations of uplift and variations in subglacial water pressure. Comprehensive studies of this type would provide a more realistic prediction of how Greenland may respond to future warming and should be a prime goal of future research.

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APPENDICES

Appendix A: Data Processing Techniques

Appendix B: Detail for calculations and methods described in text

Appendix C: Baseline data used for strain rate calculation and analyses

APPENDIX A

Data Processing Tecniques

This appendix describes in detail the manipulation of data files from raw '.t01' Trimble 5700 format into a form that can be used in Trimble Geomatics Office. It includes step by step instructions on how to process baseline files, and how to convert the output files into data spreadsheets using Matlab and Excel. For convenience to the reader, since most plots and events reference 'day of year', I have added a reference sheet for ease of conversion at the end.

Part 1: Steps in processing GPS network baselines using Trimble Geomatics Office software

1. split rinex into smaller files using TEQC routine such as "process3hr_GPS.bat"
    a. copy/paste rinex into folder with .bat file
    b. right click on .bat file and choose 'edit'
    c. click 'edit' in new window and choose 'replace'
    d. change filename to reflect .t01 in folder
    e. save
    f. run 'process3hr_GPS.bat'
2. choose one of the time slices from each receiver for one particular day
3. collect the GPS files in a sub-folder within a folder for that day.
4. go online to get rinex files (.06n (nav) and .06o (obs)) for KAGA station
    a. ftp://data-out.unavco.org/pub/rinex/obs/2006/
    b. ftp://data-out.unavco.org/pub/rinex/nav/2006/
    c. Put in sub-folder for that day
5. go online to get precise ephemeris (.sp3 files) for day of interest
    a. http://sopac.ucsd.edu/cgi-bin/dbDataByDate.cgi
    b. Or http://igscb.jpl.nasa.gov/igscb/product/
    c. Put in sub-folder for that day
6. open TGO and refer to project bar at left hand side of screen
7. click *projects*
    a. new project
    b. choose metric template. Click OK
    c. project properties: units and format—change lat/long format to DDD.ddd
    d. skip UTM coordinate system, leave data unprojected
8. click *import*
    a. *other survey files*

b. survey tab; precise ephemeris files; navigate to location of data storage
c. import ephemeris files
d. *rinex file*
    i. navigate to location of base station rinex
    ii. import
e. *rinex file*
    i. navigate to location of GPS receiver files
    ii. import
    iii. when prompted for .06n files, use nav file for base station

9. view tab; select point labels; and show desired info
10. double click on base station data point.
    a. Click on + sign to left of name; move to right side of window; click near lat/long and choose 'control quality'; ditto for height; close window
11. Survey tab; choose 'recompute'
12. Survey tab; choose 'GPS processing style'; choose precise
13. Adjustment tab; choose 'adjustment style'; choose 95%; click edit; choose set-up errors; enter .003m for antenna height error; enter .005 for centering error. (this only needs to be done once)
14. click *Process*; then the blue baseline icon 'Process GPS baselines'
    a. the program will operate on the data base (this will take a couple of minutes)
    b. a baseline processing report window will appear and you can see the progress of the processing. When finished, you can scroll to view the results. Baselines with a ration of 3.0 or less will be flagged; RMS of 2cm or greater will be flagged; and ref var will flag at 5 and fail at 10.
15. Click on one problematic baseline at a time and begin edits.
    a. Scroll down the report to see the satellites and phase used in solutions.
    b. Make a note of satellites with a short time span and/or cycle slips
    c. Click on the clock icon on the main screen toolbar at top/right; click on individual rinex file for the baseline and there you can edit each SV individually.
    d. When all baselines are edited in the first round, save the report, and reprocess all baselines. Remove satellites (SV's) with care! A minimum of 6 SV's need to be retained for a proper solution.
16. continue steps 14 and 15 until all baselines pass.
17. click loop closure icon to be sure that all loops are closed.
    a. If not, reprocess problematic baselines, or remove them and check the loop closure again.
18. click adjustment at tool bar on left of screen.
    a. Constrain a fixed point by choosing one from the pop-up window and checking the 2D and 'height' boxes at the right. Click OK/close window.
19. click Adjust. Look at adjustment report to be sure it passes.
20. click *Export*; choose export format, such as point information or vector format.

Part 2: Processing export files using Matlab

1. Create output files for all days of interest from TGO, and save in one folder with the 'convert_tgo_csv' Matlab script
2. Create a sub-folder called 'conv_file' in the folder that houses the convert_tgo_csv script.
3. Run 'convert_tgo_csv.m' file in Matlab.

```
% File to convert tgo csv files to something we want to work with.  The columns we are keeping are:
% 1. From Point Name (after converting KAGA to 9999)
% 2. To Point Name
% 3. Delta X
% 4. Delta Y
% 5. Delta Z
% 6. Baseline Length
% 7. RMS
% 8. Ratio
% 9. Reference Variance
% 10. Start time (hours:minutes:seconds)
%
% T. Neumann; J. Rumrill
% June 2007

close all
clear all

input_file = input('Enter the name of the file to read (.csv)  ','s');
conv_file = input('Enter the name of the converted file (.csv)  ','s');

go = 1;
fid = fopen([input_file '.csv']);

while go

   line = fgetl(fid)

   if line == -1
      break
   end

   if length(find(line == 'X')) == 0

      a = find(line == ',');
      if length(a) == 0
         break
      end

      start_stn = line(1:a(1)-1);
      stop_stn = line(a(1)+1:a(2)-1);
      delta_x = line(a(2)+1:a(3)-1);
      delta_y = line(a(3)+1:a(4)-1);
      delta_z = line(a(4)+1:a(5)-1);
      baseline = line(a(5)+1:a(6)-1);
      RMS = line(a(6)+1:a(7)-1);
      ratio = line(a(7)+1:a(8)-1);
      ref_var = line(a(8)+1:a(9)-1);
      start_time = line(a(9)+1:end);


      if length(start_stn) == 4

         start_stn = ['9999', stop_stn(5:end)];
      end
```

```
    day = str2num(start_stn(5:end-1));
    hr_start = find(start_time == ':');
    hr_stop = find(start_time == ' ');

    hour = str2num(start_time(1:hr_start(1) - 1));
    minute = str2num(start_time(hr_stop+1:hr_stop+2));
    seconds = str2num(start_time(hr_start(2) + 1 : hr_stop(1) - 1));

    start_time = day + hour/24 + minute/(24*60) + seconds/(24*60*60);


    observations = [start_stn ',' stop_stn ',' delta_x ',' delta_y ',' ...
       delta_z ',' baseline ',' RMS ',' ratio ',' ref_var ',' num2str(start_time)];


    fid_out = fopen([conv_file '.csv'], 'at');
    fwrite(fid_out, observations);
    fprintf(fid_out, '\r');
    fclose(fid_out);

  end

end
```

4. Enter name of file to read '*file*.csv'

5.Enter the name of the converted file 'conv_*file*.csv'

6. Repeat for all files of interest. This script changed the four-letter UNAVCO receiver code into a 4-digit Matlab friendly code, and created files with pertinent baseline data.

7. Next, run the tgo_reader.m file in Matlab.

This script split all of the converted files, created individual '.mat' files for each baseline, and placed them in one output folder.

```
%this is a reader to enter TGO converted output files, and separate 24 hour files
containing multiple baselines
%into individual concatenated baseline files.
%columns are: from station; to station; decimal day; baseline length; baseline rms; and decimal date.
%T. Neumann; J. Rumrill
%June 19, 2007
%revised to run on February 19, 2008

close all
clear all

directory = input('Enter directory name where .csv files are stored--> ','s');
disp(' ')

initial_station = input('Enter starting station ','s');
final_station = input('\nEnter ending station ','s');

eval(['cd ', directory])

file_list = ls;

file_list = file_list(3:end,:);

flag = 0;
```

```
for index = 1:size(file_list, 1);

   if isempty(findstr(file_list(index, :), 'output')) == 0
      flag = index;

   else

      if flag == 0
         temp(index, :) = file_list(index, :);
      else
         temp(index-1, :) = file_list(index, :);
      end
   end

end

mkdir('output')
file_list = temp;
clear flag temp index
sprintf('Found %g files', size(file_list,1))

output_matrix = [];
for index = 1:size(file_list,1)
   fid = fopen(file_list(index,:));

   go = 1;

   while go
      line = fgetl(fid);

       if line == -1
         break
       end

      commas = find(line == ',');
      first_station = line(1:commas(1)-5);

      if first_station == initial_station


         second_station = line(commas(1)+1:commas(2)-5);
         if second_station == final_station


            date = str2num(line(commas(1)+5:commas(2)-2));
            decimal_date = str2num(line(commas(end):end));
            baseline_length = str2num(line(commas(5)+1:commas(6)-1));
            baseline_rms = str2num(line(commas(6)+1:commas(7)-1));
            output_matrix = [str2num(initial_station), str2num(final_station), date, baseline_length, baseline_rms,
decimal_date];

            clear line commas baseline_rms baseline_length date decimal_date first_station second_station

            output_filename = ['"output/output_', num2str(initial_station), '_', num2str(final_station), '.mat"'];

            test = eval(['exist(', output_filename, ', "file") ']);

            if test == 0
               clear test
               eval(['save ', output_filename ', output_matrix;'])

            else

               temp = output_matrix;
               eval(['load ',output_filename, ' output_matrix']);
```

```
                output_matrix = [output_matrix; temp];
                clear temp test
                eval(['save ', output_filename ', output_matrix;'])

            end

        end

    end

  end

  fclose(fid)

end


cd ..
```

8. The individual '.mat' files for each baseline were individually opened in the Matlab workspace and the output matrix was copied into Excel and saved as a '.xls' file.

9. Once in spreadsheet form, strain-rate errors were calculated and formulas were copied to all other baseline spreadsheets.

Part 3: Day of year reference page.

VPC - Day of Year Calendar

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Day
1	1	32	60	91	121	152	182	213	244	274	305	335	1
2	2	33	61	92	122	153	183	214	245	275	306	336	2
3	3	34	62	93	123	154	184	215	246	276	307	337	3
4	4	35	63	94	124	155	185	216	247	277	308	338	4
5	5	36	64	95	125	156	186	217	248	278	309	339	5
6	6	37	65	96	126	157	187	218	249	279	310	340	6
7	7	38	66	97	127	158	188	219	250	280	311	341	7
8	8	39	67	98	128	159	189	220	251	281	312	342	8
9	9	40	68	99	129	160	190	221	252	282	313	343	9
10	10	41	69	100	130	161	191	222	253	283	314	344	10
11	11	42	70	101	131	162	192	223	254	284	315	345	11
12	12	43	71	102	132	163	193	224	255	285	316	346	12
13	13	44	72	103	133	164	194	225	256	286	317	347	13
14	14	45	73	104	134	165	195	226	257	287	318	348	14
15	15	46	74	105	135	166	196	227	258	288	319	349	15
16	16	47	75	106	136	167	197	228	259	289	320	350	16
17	17	48	76	107	137	168	198	229	260	290	321	351	17
18	18	49	77	108	138	169	199	230	261	291	322	352	18
19	19	50	78	109	139	170	200	231	262	292	323	353	19
20	20	51	79	110	140	171	201	232	263	293	324	354	20
21	21	52	80	111	141	172	202	233	264	294	325	355	21
22	22	53	81	112	142	173	203	234	265	295	326	356	22
23	23	54	82	113	143	174	204	235	266	296	327	357	23
24	24	55	83	114	144	175	205	236	267	297	328	358	24
25	25	56	84	115	145	176	206	237	268	298	329	359	25
26	26	57	85	116	146	177	207	238	269	299	330	360	26
27	27	58	86	117	147	178	208	239	270	300	331	361	27
28	28	59	87	118	148	179	209	240	271	301	332	362	28
29	29		88	119	149	180	210	241	272	302	333	363	29
30	30		89	120	150	181	211	242	273	303	334	364	30
31	31		90		151		212	243		304		365	31
Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY

APPENDIX B

Detail for calculations and methods described in text

This appendix provides details to supplement discussion included in the text. It also includes material that may be considered a slight digression from the primary methods, but may add interest and/or clarity. It is divided into 5 subsections, titiled Parts 1-5 whose contents are revealed in the table below.

Part 1: Method for determining significant strain-rate values follows Taylor (1997).

This method involves two criteria, the second of which is illustrated by figure B-1, below. The first requirement is that the value be greater than its own associated error. Secondly, in order to be independently significant from a neighboring independent value, difference between said value and compared value must be greater than error.

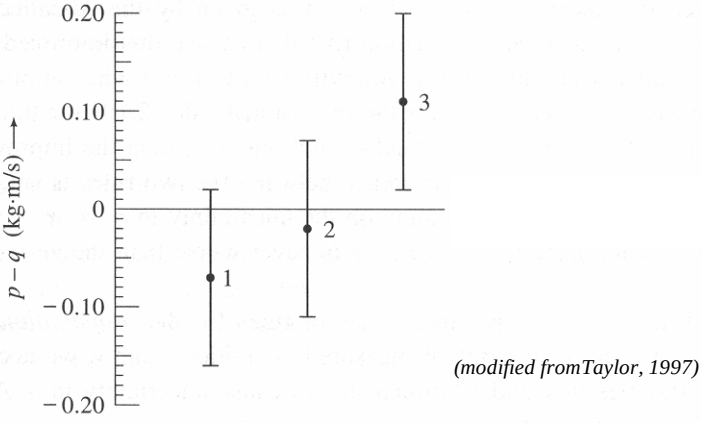

Figure B-1. Graph used as an example of determining significance in measurements.

1948	1950	156	41555.97	0.017	A	-3.99E-06	-3.18E-06	-4.81E-06	8.18E-07	-20
1948	1950	157	41555.81	0.017	B	-3.83E-06	-2.98E-06	-4.67E-06	8.42E-07	-22
1948	1950	158	41555.65	0.018		-3.66E-06	-2.79E-06	-4.52E-06	8.66E-07	-24
1948	1950	159	41555.49	0.018		-3.66E-06	-2.79E-06	-4.52E-06	8.66E-07	-24

In the above plot, values 1 and 2 are not significantly different from each other, and values 2 and 3 are not significantly different from each other. In contrast, the error bounds for values 1 and 3 do not overlap, so they are considered significantly different values. An example of the application of this method is demonstrated by the above excerpt from one of the 2007 baseline data tables. The first and second columns identify the baseline by the receiver code at each end. The 6^{th} column is the strain-rate, the 7^{th} and 8^{th} columns are the high and low error bounds and the 9^{th} column is the uncertainty calculation. In determining if a baseline's strain-rate measurement, B, is significant relative to the one before it, A, I first ensure that B is larger than the error, and then compare the difference between B and A to see if that value is larger than the error. If both of these scenarios are affirmative, B is significant.

Part 2: Calculating creep closure time for subglacial cavities (Paterson, 1994).

$W_c = Ar\ (P\text{-}p/n)^n$
A is a temperature dependent flow parameter
n is an empirically derived constant
r is the height of the cavity
P is the ice overburden
p is the water pressure

Table B-1: Calculations that explore variations in the controls on closure time.

Estimating vertical creep closure rates of subglacial cavities

ice temperature °C	flow parameter A (Pa)	density ρ (kg/m^3)	gravity *g* (m/s^2)	ice thickness *h* (m)	overburden P (Pa)	water pressure p (Pa)	creep constant n (unitless)	height of tunnel r (m)	creep closure rate Wc (m/hr)	Wc (m/day)
1) Using different flow parameters:										
wisconsin ice	1.70E-23	900	9.8	1200	1.06E+07	0	3	1	2.70	64.79
0	6.80E-24	900	9.8	1200	1.06E+07	0	3	1	1.08	25.92
-2	2.40E-24	900	9.8	1200	1.06E+07	0	3	1	0.38	9.15
2) Using different ice thicknesses										
0	6.80E-24	900	9.8	400	3.53E+06	0	3	1	0.04	0.96
0	6.80E-24	900	9.8	600	5.29E+06	0	3	1	0.13	3.22
0	6.80E-24	900	9.8	800	7.06E+06	0	3	1	0.32	7.64
0	6.80E-24	900	9.8	1000	8.82E+06	0	3	1	0.62	14.93
3) Using different tunnel heights										
0	6.80E-24	900	9.8	400	3.53E+06	0	3	2	0.08	1.91
0	6.80E-24	900	9.8	400	3.53E+06	0	3	3	0.12	2.87
0	6.80E-24	900	9.8	400	3.53E+06	0	3	4	0.16	3.82
0	6.80E-24	900	9.8	400	3.53E+06	0	3	10	0.40	9.56

Part 3: Determining the positive degree day (PDD) sum and onset of melt.

As found in Braithwaite (1995), the PDD sum is a weighted sum of average daily air temperatures at or above 0°C. The formula is as follows:

$$\sum_{t=1}^{N} H_t T_t$$

Where N is the number of days in the period of interest, and the variable H_t (a weighting factor) is dependent on T_t (air temperature in degrees Celsius, rounded to whole number) such that $H_t = 1$ when $T_t \geq 0°$ C; and $H_t = 0$ when $T_t < 0°$ C.

Onset of melting is determined by counting at least 5 successive days of temperatures at or above 0°C.
Onset of melt in 2006 occurs on day 186 (first melt day 174)
Onset of melt in 2007 occurs on day 153
First day of detectable change in strain-rates beyond background in:
2006- Day 200 in baseline 206 to 806
2007- Day 162 in baseline 107 to 807

Table B-2 : Temperature data used in the PDD calculation.

	2006			2007		
day	avg temp	PDD weight	day	avg temp	PDD weight	
150	-1.494348	0	150	-2.867958	0	Air temperature data
151	-1.51913	0	151	-1.385208	0	are from the Greenlan
152	-3.974348	0	152	-1.246208	0	Climate Network (Gcn
153	-2.645217	0	153	2.236833	2	
154	-1.025652	0	154	0.563625	1	
155	-1.776957	0	155	0.25575	1	
156	-4.283478	0	156	1.643375	2	
157	-5.24913	0	157	0.509042	1	
158	-4.445217	0	158	0.554667	1	
159	-4.250435	0	159	1.142958	1	
160	-2.095652	0	160	-0.127792	1	
161	-3.856087	0	161	1.32775	1	
162	-5.797391	0	162	2.462917	2	
163	-3.387826	0	163	1.98475	2	
164	0.805652	1	164	0.458583	1	
165	0.000435	1	165	-1.129417	0	
166	-4.224348	0	166	-0.057875	1	
167	-3.371739	0	167	-0.090625	1	
168	-1.346087	0	168	1.02	1	
169	-3.31913	0	169	0.365417	1	
170	-4.911304	0	170	0.513875	1	
171	-5.561304	0	171	-0.507125	0	
172	-3.925217	0	172	0.976625	1	
173	-0.71087	0	173	1.765208	2	
174	1.284783	1	174	3.018	3	
175	2.064783	2	175	2.288417	2	
176	-0.165652	1	176	3.586083	4	
177	-1.015652	0	177	3.38025	3	
178	-0.308261	1	178	3.003958	3	
179	0.246957	1	179	3.080458	3	
180	-1.961739	0	180	1.2805	1	
181	-1.438261	0	181	0.948917	1	
182	-2.604783	0	182	-0.393792	1	
183	-2.923043	0	183	-0.330542	1	
184	-5.128261	0	184	0.345833	1	
185	-5.158696	0	185	1.422167	1	
186	-4.332174	0	186	1.005125	1	
187	-0.392174	1	187	0.448375	1	
188	2.160435	2	188	1.848625	2	
189	3.201739	3	189	3.151583	3	
190	0.35	1	190	3.410958	3	
191	1.311304	1	191	3.51375	4	
192	-0.972174	0	192	3.907875	4	
193	0.344348	1	193	3.380417	3	
194	-2.163913	0	194	3.056833	3	
195	0.488261	1	195	2.689917	3	
196	-1.519565	0	196	2.002333	2	
197	0.176522	1	197	1.659917	2	
198	1.796957	2	198	2.608833	3	
199	3.126087	3	199	1.48725	1	
200	3.156957	3	200	1.769083	2	
201	2.75	3	201	1.868417	2	
202	3.206522	3	202	1.054042	1	
203	2.630435	3	203	1.411625	1	
204	3.256957	3	204	2.557958	3	
205	2.335652	2	205	2.361958	2	
206	2.12	2	206	1.879333	2	
207	3.440435	3	207	1.323917	1	
208	2.607826	3	208	1.346875	1	
209	2.027391	2	209	1.851917	2	
210	1.85	2	210	1.23225	1	
211	1.313913	1	211	1.669125	2	
212	1.301739	1	212	-1.2085	0	
213	3.14	3	213	0.020833	1	
214	3.338261	3	214	0.25175	1	
215	3.175217	3	215	0.120208	1	
216	2.027826	2	216	-1.266833	0	
217	0.340435	1	217	-0.3425	1	
218	0.972174	1	218	0.76675	1	
219	1.306087	1	219	1.228333	1	
220	1.886957	2	220	2.258208	2	
221	0.86087	1	221	1.437708	1	
222	0.600435	1	222	1.405375	1	
223	-0.79	0	223	2.813458	3	
224	0.12	1	224	2.889208	3	
225	0.941304	1	225	2.36025	2	
226	0.81	1	226	1.901625	2	
227	4.421667	4	227	1.662208	2	
228	3.390417	3	228	1.030917	1	
229	2.836667	3	229	1.229042	1	
230	0.665833	1	230	1.253	1	
231	0.932917	1	231	0.779708	1	
232	1.279583	1	232	1.399125	1	
233	1.698333	2	233	0.348958	1	
234	0.71625	1	234	-1.24	0	
235	-1.124583	0	235	-1.263208	0	
236	-0.515417	0	236	-2.598417	0	
237	-0.9425	0	237	-2.140333	0	
238	-2.919583	0	238	0.24925	1	
239	-3.065417	0	239	2.482958	2	
240	-0.264167	1	240	1.210333	1	
241	0.012917	1	241	1.625542	2	
242	-3.323333	0	242	0.337208	1	
243	-4.698333	0	243	-0.998875	0	
244	-2.992917	0	244	-1.02575	0	
245	-3.7525	0	245	-7.531625	0	
246	-3.30875	0	246	-4.707667	0	
247	0.229583	1	247	-3.50725	0	
248	-0.725833	0	248	-6.100375	0	
249	-1.677083	0	249	-9.116417	0	
250	-5.042917	0	250	-2.13775	0	
PDD sum		95			138	

Part 4: Estimating propagation speed for high strain events (Table B-3).

To arrive at an estimation of speed, I used the distance between the site nearest initiation and the farthest sites with strain-rate changes above error, and the time it takes for strain variations to occur.
In some instances, when the effects from the event occur within a 24 hr span, the minimum resolution of the event is 21 hrs. Since the time slice used in the processing software is 9am to 12pm. I can only be sure that the event occurred between 12pm and 9am the next day, a 21 hour time span. It may well have happened over a shorter time span, but that is beyond the resolution of the strain calculations.

Table B-3: Estimated propagation speeds for high-strain events in 2006 and 2007.

Estimates of propagation speeds for high-strain events.							
event	location of origin	farthest affected station	distance	min. time lag	max. time lag	max. prop. Speed	min. prop. Speed
two, 2006	inland array	ablation array	35 km	24 hrs	48 hrs	1.46 km/hr	0.7 km/hr
one, 2007	307	507	15 km	21 hrs	24 hrs	0.7 km/hr	0.6 km/hr
	507	107	20 km	21 hrs	24 hrs	0.9 km/hr	0.8 km/hr
two, 2007	507	307	15 km	24 hrs	48 hrs	0.6 km/hr	0.3 km/hr
three, 2007	407	607	17 km	21 hrs	24 hrs	0.8 km/hr	0.7 km/hr

Part 5: Determining baselines with greatest variability in the 2007 melt season.

(Background strain-rate and errors are given for 2006 data (Table B-4) just to show that they are similar and this type of variability analysis for 2006 was not useful.)

1) find average background strain (value prior to melt onset), by average of first 5 days of measurements.
2) find average error from first five days of measurement.
3) Add and subtract error from average strain to get average high and low limits for background strain values.
4) systematically identify 24 hour strain rates throughout the season that are above error for each baseline in the network.
5) Add the total number of measurement days for each baseline.
6) Add the total number of measurements outside of the background strain limits.
7) calculate the % variability:

$$\frac{\text{Total strain days outside background limits}}{\text{Total \# of measurement days}} \times 100$$

Table B-4. Background strain-rates and errors for 2006 longitudinal baselines (units are parts per million, PPM).

baseline	background strain (PPM)	error
1_7	-1135	241
1_8	-1179	261
1_9	-1142	238
1_10	-1194	247
2_7	-1091	214
2_8	-1142	232
2_9	-1088	212
2_10	-1128	249
3_7	-821	233
3_8	-854	253
3_9	-832	220
3_10	-883	250
4_7	-767	207
4_8	-788	225
4_9	-770	214
4_10	-818	243
2_11	-850	169
9_11	-391	376

Table B-5. Longitudinal Baselines with the highest percentage of strain-rate variability over the 2007 melt season (units are parts per million, PPM).

Baseline	avg background	avg high	avg low	avg error	variable days	total days	percent variability
107 to 207	73	3572	-3138	3355	12	77	16
107 to 307	-3884	-1777	-5991	2107	17	77	22
107 to 407	-2752	-1672	-3832	1080	26	77	34
107 to W1	-612	22	-1246	634	30	77	39
207 to 307	-46	3139	-3231	3185	9	91	10
207 to 407	-3980	-2727	-5233	1253	30	91	33
307 to 407	-495	845	-1835	1340	25	91	27
307 to 507	-2292	-1679	-2905	613	23	77	30
407 to W1	3794	5255	2333	1461	18	91	20
407 to 507	-3536	-2495	-4577	1041	9	77	12
407 to 607	-556	19	-1131	575	31	95	33
507 to 607	3334	4088	2580	754	30	77	39
W1 to 507	97	1266	-1072	1169	0	77	0
507 to 807	603	1030	176	427	32	77	42
W1 to 607	-3250	-2450	-4050	800	16	96	17
607 to 707	252	1262	-758	1010	20	96	21
W1 to 707	-2007	-1537	-2477	470	33	97	34
607 to 807	-1201	-420	-1982	781	26	96	27
707 to 807	-1713	-113	-3313	1600	14	96	15

APPENDIX C

This section of the appendix contains baseline data used for strain rate calculation and analyses. Part C-1 includes data from 2006 baselines, and Part C-2 includes data from 2007 baselines.

The columns are as follows:

1) starting receiver in baseline
2) ending receiver in baseline
3) day of year
4) baseline length
5) baseline error (m)
6) decimal time
7) strain day
8) 24-hour strain rate
9) high error bound
10) low error bound
11) strain (PPM)
12) high error bound (PPM)
13) low error bound (PPM)
14 & 15) strain error (PPM)
16 & 17) strain error
18) error as a % of strain rate

Part C-1. Baseline data for 2006 season.

1944	1945	140	36787.32	0.012	140.9304	140.5	-3.13E-06	-2.47E-06	-3.78E-06	-1141	-903	-1379	238	238	6.52E-07	6.52E-07	-21
1944	1945	141	36787.2	0.012	141.9311	141.5	-3.02E-06	-2.84E-06	-3.19E-06	-1101	-1037	-1166	64	64	1.77E-07	1.77E-07	-6
1944	1945	145	36786.76	0.014	145.8504	145.5	-3.07E-06	-2.31E-06	-3.83E-06	-1121	-843	-1399	278	278	7.61E-07	7.61E-07	-25
1944	1945	146	36786.64	0.014	146.8511	146.5	-2.78E-06	-2.77E-06	-2.80E-06	-1016	-1012	-1021	5	5	1.31E-08	1.31E-08	0
1944	1945	202	36780.91	0.013	202.8476	202.5	8.16E-08	8.16E-07	-6.53E-07	30	298	-238	268	268	7.34E-07	7.34E-07	900
1944	1945	203	36780.91	0.014	203.8483	203.5	6.80E-07	1.41E-06	-5.44E-08	248	516	-20	268	268	7.34E-07	7.34E-07	108
1944	1945	204	36780.94	0.013	204.849	204.5	-5.85E-07	-2.18E-07	-9.52E-07	-213	-79	-347	134	134	3.67E-07	3.67E-07	-63
1944	1945	206	36780.89	0.014	206.8504	206.5	-1.77E-06	-1.01E-06	-2.53E-06	-645	-367	-923	278	278	7.61E-07	7.61E-07	-43
1944	1945	207	36780.83	0.014	207.8511	207.5	-1.66E-06	-9.79E-07	-2.34E-06	-605	-357	-853	248	248	6.80E-07	6.80E-07	-41
1944	1945	208	36780.77	0.011	208.8517	208.5	-1.33E-06	-7.07E-07	-1.96E-06	-486	-258	-715	228	228	6.25E-07	6.25E-07	-47
1944	1945	209	36780.72	0.012	209.8524	209.5	-1.82E-06	-1.20E-06	-2.45E-06	-665	-437	-893	228	228	6.25E-07	6.25E-07	-34
1944	1945	210	36780.65	0.011	210.8531	210.5	-1.96E-06	-1.36E-06	-2.56E-06	-715	-496	-933	218	218	5.98E-07	5.98E-07	-31
1944	1945	211	36780.58	0.011	211.8538	211.5	-1.52E-06	-9.24E-07	-2.12E-06	-556	-337	-774	218	218	5.98E-07	5.98E-07	-39
1944	1945	212	36780.52	0.011	212.8545	212.5	-1.69E-06	-1.01E-06	-2.37E-06	-615	-367	-863	248	248	6.80E-07	6.80E-07	-40
1944	1945	213	36780.46	0.014	213.8552	213.5	-1.66E-06	-8.97E-07	-2.42E-06	-605	-327	-883	278	278	7.61E-07	7.61E-07	-46
1944	1945	214	36780.4	0.014	214.8344	214.5	-1.71E-06	-8.97E-07	-2.53E-06	-625	-327	-923	298	298	8.16E-07	8.16E-07	-48
1944	1945	215	36780.34	0.016	215.8351	215.5	-1.96E-06	-1.20E-06	-2.72E-06	-715	-437	-992	278	278	7.61E-07	7.61E-07	-39
1944	1945	216	36780.26	0.012	216.8358	216.5	-2.75E-06	-2.12E-06	-3.37E-06	-1002	-774	-1231	228	228	6.25E-07	6.25E-07	-23
1944	1945	217	36780.16	0.011	217.92	217.5	-3.10E-06	-2.50E-06	-3.70E-06	-1131	-913	-1350	218	218	5.98E-07	5.98E-07	-19
1944	1945	218	36780.05	0.011	218.8372	218.5	-2.15E-06	-1.52E-06	-2.77E-06	-784	-556	-1012	228	228	6.25E-07	6.25E-07	-29
1944	1945	219	36779.97	0.012	219.8379	219.5	-3.15E-06	-2.50E-06	-3.81E-06	-1151	-913	-1389	238	238	6.53E-07	6.53E-07	-21
1944	1945	220	36779.85	0.012	220.8386	220.5	-1.31E-06	-5.71E-07	-2.04E-06	-476	-208	-744	268	268	7.34E-07	7.34E-07	-56
1944	1945	221	36779.81	0.015	221.8392	221.5	-2.80E-06	-2.09E-06	-3.51E-06	-1022	-764	-1280	258	258	7.07E-07	7.07E-07	-25
1944	1945	222	36779.7	0.011	222.8399	222.5	-3.21E-06	-2.58E-06	-3.83E-06	-1171	-943	-1399	228	228	6.25E-07	6.25E-07	-19
1944	1945	223	36779.59	0.012	223.8406	223.5	-2.83E-06	-2.18E-06	-3.48E-06	-1032	-794	-1270	238	238	6.53E-07	6.53E-07	-23
1944	1945	224	36779.48	0.012	224.8413	224.5	-3.78E-06	-3.15E-06	-4.40E-06	-1379	-1151	-1608	228	228	6.25E-07	6.25E-07	-17
1944	1945	225	36779.34	0.011	225.9255	225.5	-2.53E-06	-1.85E-06	-3.21E-06	-923	-675	-1171	248	248	6.80E-07	6.80E-07	-27
1944	1945	226	36779.25	0.014	226.9262	226.5	-3.94E-06	-3.15E-06	-4.73E-06	-1439	-1151	-1727	288	288	7.88E-07	7.88E-07	-20
1944	1945	227	36779.1	0.015	227.9269	227.5	-4.35E-07	1.36E-08	-8.84E-07	-159	5	-323	164	164	4.49E-07	4.49E-07	-103
1944	1945	229	36779.07	0.018	229.8448	229.5	-2.07E-06	-1.20E-06	-2.94E-06	-754	-437	-1072	318	318	8.70E-07	8.70E-07	-42
1944	1945	230	36779	0.014	230.8455	230.5	-2.39E-06	-1.63E-06	-3.15E-06	-873	-595	-1151	278	278	7.61E-07	7.61E-07	-32
1944	1945	231	36778.91	0.014	231.8462	231.5	-6.17E-06	-5.52E-06	-6.82E-06	-2253	-2015	-2491	238	238	6.53E-07	6.53E-07	-11
1944	1945	232	36778.68	0.01	232.1811	232.5	-2.75E-06	-2.18E-06	-3.32E-06	-1002	-794	-1211	208	208	5.71E-07	5.71E-07	-21
1944	1945	233	36778.58	0.011	233.1818	233.5	-1.66E-06	-1.01E-06	-2.31E-06	-605	-367	-844	238	238	6.53E-07	6.53E-07	-39
1944	1945	234	36778.52	0.013	234.8483	234.5	-2.45E-06	-1.77E-06	-3.13E-06	-893	-645	-1141	248	248	6.80E-07	6.80E-07	-28
1944	1945	235	36778.43	0.012	235.849	235.5	-2.88E-06	-2.23E-06	-3.53E-06	-1052	-814	-1290	238	238	6.53E-07	6.53E-07	-23
1944	1945	236	36778.32	0.012	236.8497	236.5	-2.96E-06	-2.34E-06	-3.59E-06	-1082	-853	-1310	228	228	6.25E-07	6.25E-07	-21
1944	1945	237	36778.21	0.011	237.8504	237.5	#NUM!	#NUM!	#NUM!	####	#####	#####	####	####	#NUM!	#NUM!	####

1944	1948	140	23102.31	0.009	140.9304	140.5	4.89E-06	5.71E-06	4.07E-06	1785	2086	1485	300	300	8.22E-07	8.22E-07	17
1944	1948	141	23102.42	0.01	141.9311	141.5	4.82E-06	5.06E-06	4.57E-06	1758	1848	1667	91	91	2.49E-07	2.49E-07	5
1944	1948	145	23102.86	0.013	145.8504	145.5	5.06E-06	6.19E-06	3.94E-06	1848	2259	1438	411	411	1.13E-06	1.13E-06	22
1944	1948	146	23102.98	0.013	146.8511	146.5	5.10E-06	5.12E-06	5.08E-06	1860	1868	1852	8	8	2.09E-08	2.09E-08	0
1944	1948	202	23109.58	0.014	202.8476	202.5	6.19E-06	7.40E-06	4.98E-06	2259	2701	1816	442	442	1.21E-06	1.21E-06	20
1944	1948	203	23109.72	0.014	203.8483	203.5	7.10E-06	8.26E-06	5.93E-06	2590	3017	2164	426	426	1.17E-06	1.17E-06	16
1944	1948	204	23109.88	0.013	204.849	204.5	7.85E-06	8.35E-06	7.36E-06	2867	3048	2685	182	182	4.98E-07	4.98E-07	6
1944	1948	206	23110.25	0.01	206.8504	206.5	8.31E-06	9.17E-06	7.44E-06	3032	3348	2717	316	316	8.65E-07	8.65E-07	10
1944	1948	207	23110.44	0.01	207.8511	207.5	9.13E-06	1.00E-05	8.22E-06	3332	3664	3001	332	332	9.09E-07	9.09E-07	10
1944	1948	208	23110.65	0.011	208.8517	208.5	7.57E-06	8.57E-06	6.58E-06	2764	3127	2401	363	363	9.95E-07	9.95E-07	13
1944	1948	209	23110.82	0.012	209.8524	209.5	8.18E-06	9.17E-06	7.18E-06	2985	3348	2622	363	363	9.95E-07	9.95E-07	12
1944	1948	210	23111.01	0.011	210.8531	210.5	1.02E-05	1.12E-05	9.22E-06	3727	4090	3364	363	363	9.95E-07	9.95E-07	10
1944	1948	211	23111.25	0.012	211.8538	211.5	8.48E-06	9.48E-06	7.49E-06	3095	3459	2732	363	363	9.95E-07	9.95E-07	12
1944	1948	212	23111.44	0.011	212.8545	212.5	7.96E-06	8.91E-06	7.01E-06	2906	3253	2558	347	347	9.52E-07	9.52E-07	12
1944	1948	213	23111.63	0.011	213.8552	213.5	5.50E-06	6.45E-06	4.54E-06	2006	2353	1658	347	347	9.52E-07	9.52E-07	17
1944	1948	214	23111.76	0.011	214.8344	214.5	7.49E-06	8.61E-06	6.36E-06	2732	3143	2322	411	411	1.12E-06	1.12E-06	15
1944	1948	215	23111.93	0.015	215.8351	215.5	6.14E-06	7.27E-06	5.02E-06	2243	2653	1832	411	411	1.12E-06	1.12E-06	18
1944	1948	216	23112.07	0.011	216.8358	216.5	1.10E-05	1.20E-05	9.99E-06	4011	4375	3648	363	363	9.95E-07	9.95E-07	9
1944	1948	217	23112.32	0.012	217.92	217.5	4.37E-06	5.37E-06	3.37E-06	1595	1958	1232	363	363	9.95E-07	9.95E-07	23
1944	1948	218	23112.43	0.011	218.8372	218.5	9.68E-05	9.77E-05	9.58E-05	35326	35673	34978	347	347	9.52E-07	9.52E-07	1
1944	1948	219	23114.66	0.011	219.8379	219.5	1.16E-05	1.26E-05	1.06E-05	4232	4611	3853	379	379	1.04E-06	1.04E-06	9
1944	1948	220	23114.93	0.013	220.8386	220.5	1.41E-05	1.54E-05	1.28E-05	5132	5606	4658	474	474	1.30E-06	1.30E-06	9
1944	1948	221	23115.26	0.017	221.8392	221.5	1.15E-05	1.28E-05	1.01E-05	4184	4690	3679	505	505	1.38E-06	1.38E-06	12
1944	1948	222	23115.52	0.015	222.8399	222.5	1.10E-05	1.15E-05	1.04E-05	4003	4200	3805	197	197	5.41E-07	5.41E-07	5
1944	1948	224	23116.03	0.01	224.8413	224.5	1.05E-05	1.16E-05	9.30E-06	3821	4247	3395	426	426	1.17E-06	1.17E-06	11
1944	1948	225	23116.27	0.017	225.9255	225.5	6.06E-06	7.53E-06	4.59E-06	2211	2747	1674	537	537	1.47E-06	1.47E-06	24
1944	1948	226	23116.41	0.017	226.9262	226.5	8.44E-06	1.01E-05	6.75E-06	3079	3695	2463	616	616	1.69E-06	1.69E-06	20
1944	1948	227	23116.6	0.022	227.9269	227.5	1.06E-05	1.10E-05	1.01E-05	3857	4018	3695	162	162	4.43E-07	4.43E-07	4
1944	1948	231	23117.58	0.019	231.8462	231.5	6.66E-06	8.31E-06	5.02E-06	2431	3031	1832	600	600	1.64E-06	1.64E-06	25
1944	1948	232	23117.74	0.019	232.1811	232.5	6.62E-06	8.18E-06	5.06E-06	2416	2984	1847	568	568	1.56E-06	1.56E-06	24
1944	1948	233	23117.89	0.017	233.1818	233.5	4.67E-06	6.19E-06	3.16E-06	1705	2258	1153	553	553	1.51E-06	1.51E-06	32
1944	1948	234	23118	0.018	234.8483	234.5	6.66E-06	8.13E-06	5.19E-06	2431	2968	1895	537	537	1.47E-06	1.47E-06	22
1944	1948	235	23118.15	0.016	235.849	235.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####	#####	#NUM!	#NUM!	####

1944	1950	140	1420.013	0.01	140.9304	140.5	1.41E-06	1.62E-05	-1.34E-05	514	5912	-4884	5398	5398	1.48E-05	1.48E-05	1050
1944	1950	141	1420.015	0.011	141.9311	141.5	-2.31E-08	2.66E-07	-3.12E-07	-8	97	-114	105	105	2.89E-07	2.89E-07	-1250
1944	1950	202	1420.013	0.014	202.8476	202.5	-4.23E-06	1.62E-05	-2.46E-05	-1542	5912	-8996	7454	7454	2.04E-05	2.04E-05	-483
1944	1950	203	1420.007	0.015	203.8483	203.5	2.11E-06	2.32E-05	-1.90E-05	771	8482	-6940	7711	7711	2.11E-05	2.11E-05	1000
1944	1950	204	1420.01	0.015	204.849	204.5	-1.06E-06	8.45E-06	-1.06E-05	-386	3084	-3856	3470	3470	9.51E-06	9.51E-06	-900
1944	1950	206	1420.007	0.012	206.8504	206.5	-3.52E-06	1.20E-05	-1.90E-05	-1285	4370	-6940	5655	5655	1.55E-05	1.55E-05	-440
1944	1950	207	1420.002	0.01	207.8511	207.5	-2.11E-06	1.13E-05	-1.55E-05	-771	4113	-5655	4884	4884	1.34E-05	1.34E-05	-633
1944	1950	208	1419.999	0.009	208.8517	208.5	1.34E-05	2.82E-05	-1.41E-06	4884	10282	-514	5398	5398	1.48E-05	1.48E-05	111
1944	1950	209	1420.018	0.012	209.8524	209.5	7.04E-07	1.55E-05	-1.41E-05	257	5655	-5141	5398	5398	1.48E-05	1.48E-05	2100
1944	1950	210	1420.019	0.009	210.8531	210.5	7.75E-06	1.97E-05	-4.23E-06	2827	7197	-1542	4370	4370	1.20E-05	1.20E-05	155
1944	1950	211	1420.03	0.008	211.8538	211.5	5.63E-06	1.90E-05	-7.75E-06	2056	6940	-2827	4884	4884	1.34E-05	1.34E-05	237
1944	1950	212	1420.038	0.011	212.8545	212.5	4.93E-06	2.18E-05	-1.20E-05	1799	7968	-4370	6169	6169	1.69E-05	1.69E-05	343
1944	1950	213	1420.045	0.013	213.8552	213.5	2.82E-06	2.04E-05	-1.48E-05	1028	7454	-5398	6426	6426	1.76E-05	1.76E-05	625
1944	1950	214	1420.049	0.012	214.8344	214.5	7.04E-06	2.39E-05	-9.86E-06	2570	8739	-3598	6169	6169	1.69E-05	1.69E-05	240
1944	1950	215	1420.059	0.012	215.8351	215.5	6.34E-06	2.32E-05	-1.06E-05	2313	8482	-3855	6169	6169	1.69E-05	1.69E-05	267
1944	1950	216	1420.068	0.012	216.8358	216.5	6.34E-06	2.04E-05	-7.75E-06	2313	7454	-2827	5141	5141	1.41E-05	1.41E-05	222
1944	1950	217	1420.077	0.008	217.92	217.5	0.00E+00	1.34E-05	-1.34E-05	0	4884	-4884	4884	4884	1.34E-05	1.34E-05	0
1944	1950	218	1420.077	0.011	218.8372	218.5	9.86E-06	2.46E-05	-4.93E-06	3598	8996	-1799	5398	5398	1.48E-05	1.48E-05	150
1944	1950	219	1420.091	0.01	219.8379	219.5	7.75E-06	2.18E-05	-6.34E-06	2827	7968	-2313	5140	5140	1.41E-05	1.41E-05	182
1944	1950	220	1420.102	0.01	220.8386	220.5	4.23E-06	1.90E-05	-1.06E-05	1542	6940	-3855	5397	5397	1.48E-05	1.48E-05	350
1944	1950	221	1420.108	0.011	221.8392	221.5	2.11E-06	1.69E-05	-1.27E-05	771	6169	-4626	5397	5397	1.48E-05	1.48E-05	700
1944	1950	222	1420.111	0.01	222.8399	222.5	7.04E-06	2.11E-05	-7.04E-06	2570	7711	-2570	5140	5140	1.41E-05	1.41E-05	200
1944	1950	223	1420.121	0.01	223.8406	223.5	4.22E-06	1.83E-05	-9.86E-06	1542	6683	-3598	5140	5140	1.41E-05	1.41E-05	333
1944	1950	224	1420.127	0.01	224.8413	224.5	7.04E-07	1.34E-05	-1.20E-05	257	4883	-4369	4626	4626	1.27E-05	1.27E-05	1800
1944	1950	225	1420.128	0.008	225.9255	225.5	3.52E-06	1.41E-05	-7.04E-06	1285	5140	-2570	3855	3855	1.06E-05	1.06E-05	300
1944	1950	226	1420.133	0.007	226.9262	226.5	5.63E-06	1.69E-05	-5.63E-06	2056	6168	-2056	4112	4112	1.13E-05	1.13E-05	200
1944	1950	227	1420.141	0.009	227.9269	227.5	4.93E-06	1.16E-05	-1.76E-06	1799	4241	-643	2442	2442	6.69E-06	6.69E-06	136
1944	1950	229	1420.155	0.01	229.8448	229.5	9.15E-06	2.39E-05	-5.63E-06	3341	8738	-2056	5397	5397	1.48E-05	1.48E-05	162
1944	1950	230	1420.168	0.011	230.8455	230.5	1.20E-05	2.61E-05	-2.11E-06	4369	9509	-771	5140	5140	1.41E-05	1.41E-05	118
1944	1950	231	1420.185	0.009	231.8462	231.5	8.45E-06	2.11E-05	-4.22E-06	3084	7710	-1542	4626	4626	1.27E-05	1.27E-05	150
1944	1950	232	1420.197	0.009	232.1811	232.5	7.04E-06	1.97E-05	-5.63E-06	2570	7196	-2056	4626	4626	1.27E-05	1.27E-05	180
1944	1950	233	1420.207	0.009	233.1818	233.5	4.22E-06	1.76E-05	-9.15E-06	1542	6425	-3341	4883	4883	1.34E-05	1.34E-05	317
1944	1950	234	1420.213	0.01	234.8483	234.5	5.63E-06	1.83E-05	-7.04E-06	2056	6682	-2570	4626	4626	1.27E-05	1.27E-05	225
1944	1950	235	1420.221	0.008	235.849	235.5	4.93E-06	1.62E-05	-6.34E-06	1799	5911	-2313	4112	4112	1.13E-05	1.13E-05	229
1944	1950	236	1420.228	0.008	236.8497	236.5	-1.41E-06	9.86E-06	-1.27E-05	-514	3598	-4626	4112	4112	1.13E-05	1.13E-05	-800
1944	1950	237	1420.226	0.008	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####

1944	1951	140	37925.42	0.01	140.9304	140.5	-2.98E-06	-2.40E-06	-3.56E-06	-1088	-876	-1299	212	212	5.80E-07	5.80E-07	-19
1944	1951	141	37925.31	0.012	141.9311	141.5	-2.71E-06	-2.70E-06	-2.72E-06	-991	-987	-995	4	4	1.08E-08	1.08E-08	0
1944	1951	202	37919.03	0.013	202.8476	202.5	-4.22E-07	2.37E-07	-1.08E-06	-154	87	-395	241	241	6.59E-07	6.59E-07	-156
1944	1951	203	37919.01	0.012	203.8483	203.5	1.32E-07	7.38E-07	-4.75E-07	48	270	-173	221	221	6.07E-07	6.07E-07	460
1944	1951	204	37919.02	0.011	204.849	204.5	-4.88E-07	-2.11E-07	-7.65E-07	-178	-77	-279	101	101	2.77E-07	2.77E-07	-57
1944	1951	206	37918.98	0.01	206.8504	206.5	-1.71E-06	-1.16E-06	-2.27E-06	-626	-424	-828	202	202	5.54E-07	5.54E-07	-32
1944	1951	207	37918.92	0.011	207.8511	207.5	-1.74E-06	-1.19E-06	-2.29E-06	-635	-433	-837	202	202	5.54E-07	5.54E-07	-32
1944	1951	208	37918.85	0.01	208.8517	208.5	-1.32E-06	-7.38E-07	-1.90E-06	-481	-270	-693	212	212	5.80E-07	5.80E-07	-44
1944	1951	209	37918.8	0.012	209.8524	209.5	-1.66E-06	-1.11E-06	-2.22E-06	-606	-404	-809	202	202	5.54E-07	5.54E-07	-33
1944	1951	210	37918.74	0.009	210.8531	210.5	-2.03E-06	-1.56E-06	-2.51E-06	-741	-568	-914	173	173	4.75E-07	4.75E-07	-23
1944	1951	211	37918.66	0.009	211.8538	211.5	-1.03E-06	-5.54E-07	-1.50E-06	-375	-202	-549	173	173	4.75E-07	4.75E-07	-46
1944	1951	212	37918.62	0.009	212.8545	212.5	-1.58E-06	-1.05E-06	-2.11E-06	-578	-385	-770	193	193	5.27E-07	5.27E-07	-33
1944	1951	213	37918.56	0.011	213.8552	213.5	-1.69E-06	-1.11E-06	-2.27E-06	-616	-404	-828	212	212	5.80E-07	5.80E-07	-34
1944	1951	214	37918.5	0.011	214.8344	214.5	-1.77E-06	-1.16E-06	-2.37E-06	-645	-424	-866	221	221	6.07E-07	6.07E-07	-34
1944	1951	215	37918.43	0.012	215.8351	215.5	-1.95E-06	-1.34E-06	-2.56E-06	-712	-491	-934	221	221	6.07E-07	6.07E-07	-31
1944	1951	216	37918.36	0.011	216.8358	216.5	-2.69E-06	-2.14E-06	-3.24E-06	-982	-780	-1184	202	202	5.54E-07	5.54E-07	-21
1944	1951	217	37918.25	0.01	217.92	217.5	-2.87E-06	-2.35E-06	-3.40E-06	-1049	-857	-1242	193	193	5.27E-07	5.27E-07	-18
1944	1951	218	37918.15	0.01	218.8372	218.5	-2.90E-06	-2.37E-06	-3.43E-06	-1059	-866	-1251	193	193	5.27E-07	5.27E-07	-18
1944	1951	219	37918.04	0.01	219.8379	219.5	-2.95E-06	-2.43E-06	-3.48E-06	-1078	-886	-1271	193	193	5.27E-07	5.27E-07	-18
1944	1951	220	37917.92	0.01	220.8386	220.5	-1.69E-06	-1.11E-06	-2.27E-06	-616	-404	-828	212	212	5.80E-07	5.80E-07	-34
1944	1951	221	37917.86	0.012	221.8392	221.5	-2.43E-06	-1.85E-06	-3.01E-06	-886	-674	-1097	212	212	5.80E-07	5.80E-07	-24
1944	1951	222	37917.77	0.01	222.8399	222.5	-3.14E-06	-2.61E-06	-3.67E-06	-1146	-953	-1338	193	193	5.27E-07	5.27E-07	-17
1944	1951	223	37917.65	0.01	223.8406	223.5	-3.16E-06	-2.64E-06	-3.69E-06	-1155	-963	-1348	193	193	5.27E-07	5.27E-07	-17
1944	1951	224	37917.53	0.01	224.8413	224.5	-3.53E-06	-3.03E-06	-4.04E-06	-1290	-1107	-1473	183	183	5.01E-07	5.01E-07	-14
1944	1951	225	37917.39	0.009	225.9255	225.5	-3.88E-06	-3.35E-06	-4.40E-06	-1415	-1223	-1608	193	193	5.27E-07	5.27E-07	-14
1944	1951	226	37917.25	0.011	226.9262	226.5	-3.69E-06	-3.03E-06	-4.35E-06	-1348	-1107	-1588	241	241	6.59E-07	6.59E-07	-18
1944	1951	227	37917.11	0.014	227.9269	227.5	-6.86E-07	-3.16E-07	-1.05E-06	-250	-116	-385	135	135	3.69E-07	3.69E-07	-54
1944	1951	229	37917.06	0.014	229.8448	229.5	-1.71E-06	-1.00E-06	-2.43E-06	-626	-366	-886	260	260	7.12E-07	7.12E-07	-42
1944	1951	230	37916.99	0.013	230.8455	230.5	-2.43E-06	-1.77E-06	-3.09E-06	-886	-645	-1126	241	241	6.59E-07	6.59E-07	-27
1944	1951	231	37916.9	0.012	231.8462	231.5	-5.83E-06	-5.27E-06	-6.38E-06	-2127	-1925	-2330	202	202	5.54E-07	5.54E-07	-10
1944	1951	232	37916.68	0.009	232.1811	232.5	-2.82E-06	-2.29E-06	-3.35E-06	-1030	-837	-1223	193	193	5.27E-07	5.27E-07	-19
1944	1951	233	37916.57	0.011	233.1818	233.5	-1.48E-06	-8.97E-07	-2.06E-06	-539	-327	-751	212	212	5.80E-07	5.80E-07	-39
1944	1951	234	37916.51	0.011	234.8483	234.5	-2.37E-06	-1.82E-06	-2.93E-06	-866	-664	-1069	202	202	5.54E-07	5.54E-07	-23
1944	1951	235	37916.42	0.01	235.849	235.5	-2.93E-06	-2.37E-06	-3.48E-06	-1069	-866	-1271	202	202	5.54E-07	5.54E-07	-19
1944	1951	236	37916.31	0.011	236.8497	236.5	-2.95E-06	-2.40E-06	-3.51E-06	-1078	-876	-1280	202	202	5.54E-07	5.54E-07	-19
1944	1951	237	37916.2	0.01	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####

1944	1956	140	37448.89	0.011	140.9304	140.5	-2.11E-06	-1.52E-06	-2.70E-06	-770	-556	-984	214	214	5.87E-07	5.87E-07	-28
1944	1956	141	37448.81	0.011	141.9311	141.5	-1.81E-06	-1.80E-06	-1.82E-06	-659	-655	-663	4	4	1.05E-08	1.05E-08	-1
1944	1956	202	37444.69	0.013	202.8476	202.5	1.04E-06	1.74E-06	3.47E-07	380	634	127	253	253	6.94E-07	6.94E-07	67
1944	1956	203	37444.72	0.013	203.8483	203.5	1.66E-06	2.27E-06	1.04E-06	604	829	380	224	224	6.14E-07	6.14E-07	37
1944	1956	204	37444.79	0.01	204.849	204.5	1.46E-06	1.74E-06	1.18E-06	531	634	429	102	102	2.80E-07	2.80E-07	19
1944	1956	206	37444.9	0.011	206.8504	206.5	4.81E-07	1.07E-06	-1.07E-07	175	390	-39	214	214	5.88E-07	5.88E-07	122
1944	1956	207	37444.91	0.011	207.8511	207.5	-1.87E-07	4.27E-07	-8.01E-07	-68	156	-292	224	224	6.14E-07	6.14E-07	-329
1944	1956	208	37444.91	0.012	208.8517	208.5	1.60E-07	7.74E-07	-4.54E-07	58	283	-166	224	224	6.14E-07	6.14E-07	383
1944	1956	209	37444.91	0.011	209.8524	209.5	-4.27E-07	1.34E-07	-9.88E-07	-156	49	-361	205	205	5.61E-07	5.61E-07	-131
1944	1956	210	37444.9	0.01	210.8531	210.5	-4.27E-07	8.01E-08	-9.35E-07	-156	29	-341	185	185	5.07E-07	5.07E-07	-119
1944	1956	211	37444.88	0.009	211.8538	211.5	1.42E-06	1.95E-06	8.81E-07	517	712	322	195	195	5.34E-07	5.34E-07	38
1944	1956	212	37444.93	0.011	212.8545	212.5	-3.47E-07	2.67E-07	-9.61E-07	-127	97	-351	224	224	6.14E-07	6.14E-07	-177
1944	1956	213	37444.92	0.012	213.8552	213.5	-5.88E-07	2.67E-08	-1.20E-06	-214	10	-439	224	224	6.14E-07	6.14E-07	-105
1944	1956	214	37444.9	0.011	214.8344	214.5	-7.48E-07	-1.07E-07	-1.39E-06	-273	-39	-507	234	234	6.41E-07	6.41E-07	-86
1944	1956	215	37444.87	0.013	215.8351	215.5	-8.01E-07	-1.60E-07	-1.44E-06	-292	-58	-526	234	234	6.41E-07	6.41E-07	-80
1944	1956	216	37444.84	0.011	216.8358	216.5	-1.36E-06	-7.74E-07	-1.95E-06	-497	-283	-712	214	214	5.88E-07	5.88E-07	-43
1944	1956	217	37444.79	0.011	217.92	217.5	-2.19E-06	-1.63E-06	-2.75E-06	-799	-595	-1004	205	205	5.61E-07	5.61E-07	-26
1944	1956	218	37444.71	0.01	218.8372	218.5	-1.71E-06	-1.18E-06	-2.24E-06	-624	-429	-819	195	195	5.34E-07	5.34E-07	-31
1944	1956	219	37444.64	0.01	219.8379	219.5	-1.90E-06	-1.34E-06	-2.46E-06	-692	-487	-897	205	205	5.61E-07	5.61E-07	-30
1944	1956	220	37444.57	0.011	220.8386	220.5	5.61E-07	1.23E-06	-1.07E-07	205	448	-39	244	244	6.68E-07	6.68E-07	119
1944	1956	221	37444.59	0.014	221.8392	221.5	-1.47E-06	-7.74E-07	-2.16E-06	-536	-283	-790	253	253	6.94E-07	6.94E-07	-47
1944	1956	222	37444.54	0.012	222.8399	222.5	-2.32E-06	-1.71E-06	-2.94E-06	-848	-624	-1072	224	224	6.14E-07	6.14E-07	-26
1944	1956	223	37444.45	0.011	223.8406	223.5	-2.35E-06	-1.79E-06	-2.91E-06	-858	-653	-1063	205	205	5.61E-07	5.61E-07	-24
1944	1956	224	37444.36	0.01	224.8413	224.5	-2.67E-06	-2.16E-06	-3.18E-06	-975	-790	-1160	185	185	5.07E-07	5.07E-07	-19
1944	1956	225	37444.26	0.009	225.9255	225.5	-2.83E-06	-2.30E-06	-3.37E-06	-1033	-838	-1228	195	195	5.34E-07	5.34E-07	-19
1944	1956	226	37444.16	0.011	226.9262	226.5	-2.62E-06	-1.98E-06	-3.26E-06	-955	-721	-1189	234	234	6.41E-07	6.41E-07	-24
1944	1956	227	37444.06	0.013	227.9269	227.5	8.41E-07	1.19E-06	4.94E-07	307	434	180	127	127	3.47E-07	3.47E-07	41
1944	1956	229	37444.12	0.013	229.8448	229.5	-1.87E-07	4.81E-07	-8.55E-07	-68	175	-312	244	244	6.68E-07	6.68E-07	-357
1944	1956	230	37444.12	0.012	230.8455	230.5	-9.61E-07	-3.20E-07	-1.60E-06	-351	-117	-585	234	234	6.41E-07	6.41E-07	-67
1944	1956	231	37444.08	0.012	231.8462	231.5	-4.27E-06	-3.69E-06	-4.86E-06	-1560	-1345	-1774	214	214	5.88E-07	5.88E-07	-14
1944	1956	232	37443.92	0.01	232.1811	232.5	-1.74E-06	-1.18E-06	-2.30E-06	-634	-429	-838	205	205	5.61E-07	5.61E-07	-32
1944	1956	233	37443.85	0.011	233.1818	233.5	-8.01E-07	-2.14E-07	-1.39E-06	-292	-78	-507	214	214	5.88E-07	5.88E-07	-73
1944	1956	234	37443.82	0.011	234.8483	234.5	-1.36E-06	-7.74E-07	-1.95E-06	-497	-283	-712	214	214	5.88E-07	5.88E-07	-43
1944	1956	235	37443.77	0.011	235.849	235.5	-2.06E-06	-1.47E-06	-2.64E-06	-751	-536	-965	214	214	5.88E-07	5.88E-07	-29
1944	1956	236	37443.7	0.011	236.8497	236.5	-2.11E-06	-1.55E-06	-2.67E-06	-770	-565	-975	205	205	5.61E-07	5.61E-07	-27
1944	1956	237	37443.62	0.01	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####

1944	1957	140	1413.159	0.008	140.9304	140.5	4.95E-06	1.77E-05	-7.78E-06	1808	6457	-2841	4649	4649	1.27E-05	1.27E-05	257
1944	1957	141	1413.166	0.01	141.9311	141.5	6.01E-06	9.91E-06	2.12E-06	2195	3616	775	1421	1421	3.89E-06	3.89E-06	65
1944	1957	145	1413.2	0.012	145.8504	145.5	6.37E-06	2.34E-05	-1.06E-05	2325	8523	-3874	6199	6199	1.70E-05	1.70E-05	267
1944	1957	146	1413.209	0.012	146.8511	146.5	5.62E-06	5.91E-06	5.33E-06	2052	2158	1946	106	106	2.91E-07	2.91E-07	5
1944	1957	202	1413.654	0.011	202.8476	202.5	4.24E-06	2.05E-05	-1.20E-05	1549	7488	-4389	5938	5939	1.63E-05	1.63E-05	383
1944	1957	203	1413.66	0.012	203.8483	203.5	4.24E-06	2.12E-05	-1.27E-05	1549	7746	-4648	6197	6197	1.70E-05	1.70E-05	400
1944	1957	204	1413.666	0.012	204.849	204.5	5.31E-06	1.34E-05	-2.83E-06	1936	4906	-1033	2969	2969	8.13E-06	8.13E-06	153
1944	1957	206	1413.681	0.011	206.8504	206.5	5.66E-06	2.12E-05	-9.90E-06	2066	7746	-3615	5680	5680	1.56E-05	1.56E-05	275
1944	1957	207	1413.689	0.011	207.8511	207.5	3.54E-06	1.91E-05	-1.20E-05	1291	6971	-4389	5680	5680	1.56E-05	1.56E-05	440
1944	1957	208	1413.694	0.011	208.8517	208.5	5.66E-06	2.19E-05	-1.06E-05	2066	8004	-3873	5938	5938	1.63E-05	1.63E-05	287
1944	1957	209	1413.702	0.012	209.8524	209.5	4.95E-06	1.98E-05	-9.90E-06	1807	7229	-3615	5422	5422	1.49E-05	1.49E-05	300
1944	1957	210	1413.709	0.009	210.8531	210.5	5.66E-06	1.77E-05	-6.37E-06	2065	6455	-2324	4389	4389	1.20E-05	1.20E-05	213
1944	1957	211	1413.717	0.008	211.8538	211.5	4.24E-06	1.63E-05	-7.78E-06	1549	5938	-2840	4389	4389	1.20E-05	1.20E-05	283
1944	1957	212	1413.723	0.009	212.8545	212.5	4.24E-06	1.84E-05	-9.90E-06	1549	6713	-3615	5164	5164	1.41E-05	1.41E-05	333
1944	1957	213	1413.729	0.011	213.8552	213.5	4.24E-06	1.91E-05	-1.06E-05	1549	6971	-3873	5422	5422	1.49E-05	1.49E-05	350
1944	1957	214	1413.735	0.01	214.8344	214.5	4.24E-06	1.98E-05	-1.13E-05	1549	7229	-4131	5680	5680	1.56E-05	1.56E-05	367
1944	1957	215	1413.741	0.012	215.8351	215.5	2.12E-06	1.77E-05	-1.34E-05	775	6455	-4905	5680	5680	1.56E-05	1.56E-05	733
1944	1957	216	1413.744	0.01	216.8358	216.5	3.54E-06	1.70E-05	-9.90E-06	1291	6196	-3615	4905	4905	1.34E-05	1.34E-05	380
1944	1957	217	1413.749	0.009	217.92	217.5	4.95E-06	1.77E-05	-7.78E-06	1807	6454	-2840	4647	4647	1.27E-05	1.27E-05	257
1944	1957	218	1413.756	0.009	218.8372	218.5	4.24E-06	1.70E-05	-8.49E-06	1549	6196	-3098	4647	4647	1.27E-05	1.27E-05	300
1944	1957	219	1413.762	0.009	219.8379	219.5	2.83E-06	1.56E-05	-9.90E-06	1033	5680	-3614	4647	4647	1.27E-05	1.27E-05	450
1944	1957	220	1413.766	0.009	220.8386	220.5	3.54E-06	1.77E-05	-1.06E-05	1291	6454	-3873	5163	5164	1.41E-05	1.41E-05	400
1944	1957	221	1413.771	0.011	221.8392	221.5	2.12E-06	1.70E-05	-1.27E-05	775	6196	-4647	5422	5422	1.49E-05	1.49E-05	700
1944	1957	222	1413.774	0.01	222.8399	222.5	3.54E-06	1.70E-05	-9.90E-06	1291	6196	-3614	4905	4905	1.34E-05	1.34E-05	380
1944	1957	223	1413.779	0.009	223.8406	223.5	6.37E-06	1.98E-05	-7.07E-06	2324	7229	-2582	4905	4905	1.34E-05	1.34E-05	211
1944	1957	224	1413.788	0.01	224.8413	224.5	3.54E-06	1.63E-05	-9.20E-06	1291	5938	-3356	4647	4647	1.27E-05	1.27E-05	360
1944	1957	225	1413.793	0.008	225.9255	225.5	1.20E-05	2.33E-05	7.07E-07	4389	8520	258	4131	4131	1.13E-05	1.13E-05	94
1944	1957	226	1413.81	0.008	226.9262	226.5	1.13E-05	2.33E-05	-7.07E-07	4131	8519	-258	4389	4389	1.20E-05	1.20E-05	106
1944	1957	227	1413.826	0.009	227.9269	227.5	-3.54E-07	6.72E-06	-7.43E-06	-129	2453	-2711	2582	2582	7.07E-06	7.07E-06	-2000
1944	1957	229	1413.825	0.011	229.8448	229.5	-4.95E-06	1.20E-05	-2.19E-05	-1807	4389	-8003	6196	6196	1.70E-05	1.70E-05	-343
1944	1957	230	1413.818	0.013	230.8455	230.5	-2.12E-06	1.49E-05	-1.91E-05	-774	5421	-6970	6196	6196	1.70E-05	1.70E-05	-800
1944	1957	231	1413.815	0.011	231.8462	231.5	8.49E-06	2.26E-05	-5.66E-06	3098	8261	-2065	5163	5163	1.41E-05	1.41E-05	167
1944	1957	232	1413.827	0.009	232.1811	232.5	7.07E-07	1.41E-05	-1.27E-05	258	5163	-4647	4905	4905	1.34E-05	1.34E-05	1900
1944	1957	233	1413.828	0.01	233.1818	233.5	1.41E-06	1.70E-05	-1.41E-05	516	6196	-5163	5680	5680	1.56E-05	1.56E-05	1100
1944	1957	234	1413.83	0.012	234.8483	234.5	3.54E-06	1.84E-05	-1.13E-05	1291	6712	-4131	5421	5421	1.49E-05	1.49E-05	420
1944	1957	235	1413.835	0.009	235.849	235.5	4.95E-06	1.91E-05	-9.19E-06	1807	6970	-3356	5163	5163	1.41E-05	1.41E-05	286
1944	1957	236	1413.842	0.011	236.8497	236.5	3.54E-06	1.70E-05	-9.90E-06	1291	6196	-3614	4905	4905	1.34E-05	1.34E-05	380
1944	1957	237	1413.847	0.008	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1944	1962	140	23325.41	0.012	140.9304	140.5	-1.07E-06	-4.29E-08	-2.10E-06	-391	-16	-767	376	376	1.03E-06	1.03E-06	-96
1944	1962	141	23325.38	0.012	141.9311	141.5	-1.06E-06	-7.93E-07	-1.33E-06	-387	-289	-485	98	98	2.68E-07	2.68E-07	-25
1944	1962	145	23325.29	0.013	145.8504	145.5	-1.24E-06	-8.57E-08	-2.40E-06	-454	-31	-876	423	423	1.16E-06	1.16E-06	-93
1944	1962	146	23325.26	0.014	146.8511	146.5	-1.09E-06	-1.07E-06	-1.12E-06	-399	-391	-407	8	8	2.22E-08	2.22E-08	-2
1944	1962	202	23323.83	0.015	202.8476	202.5	-1.29E-06	-8.57E-08	-2.49E-06	-469	-31	-908	438	438	1.20E-06	1.20E-06	-93
1944	1962	203	23323.8	0.013	203.8483	203.5	-6.43E-07	4.29E-07	-1.71E-06	-235	156	-626	391	391	1.07E-06	1.07E-06	-167
1944	1962	204	23323.78	0.012	204.849	204.5	-1.29E-06	-7.72E-07	-1.80E-06	-469	-282	-657	188	188	5.14E-07	5.14E-07	-40
1944	1962	206	23323.72	0.012	206.8504	206.5	-1.33E-06	-3.00E-07	-2.36E-06	-485	-110	-861	376	376	1.03E-06	1.03E-06	-77
1944	1962	207	23323.69	0.012	207.8511	207.5	-1.16E-06	-1.29E-07	-2.19E-06	-423	-47	-798	376	376	1.03E-06	1.03E-06	-89
1944	1962	208	23323.67	0.012	208.8517	208.5	-9.00E-07	1.29E-07	-1.93E-06	-329	47	-704	376	376	1.03E-06	1.03E-06	-114
1944	1962	209	23323.64	0.012	209.8524	209.5	-1.24E-06	-3.43E-07	-2.14E-06	-454	-125	-782	329	329	9.00E-07	9.00E-07	-72
1944	1962	210	23323.62	0.009	210.8531	210.5	-8.58E-07	-8.58E-08	-1.63E-06	-313	-31	-595	282	282	7.72E-07	7.72E-07	-90
1944	1962	211	23323.6	0.009	211.8538	211.5	-8.15E-07	-1.11E-16	-1.63E-06	-297	0	-595	297	297	8.15E-07	8.15E-07	-100
1944	1962	212	23323.58	0.01	212.8545	212.5	-7.29E-07	2.14E-07	-1.67E-06	-266	78	-610	344	344	9.43E-07	9.43E-07	-129
1944	1962	213	23323.56	0.012	213.8552	213.5	-6.86E-07	3.86E-07	-1.76E-06	-250	141	-642	391	391	1.07E-06	1.07E-06	-156
1944	1962	214	23323.54	0.013	214.8344	214.5	-1.20E-06	-4.29E-08	-2.36E-06	-438	-16	-861	423	423	1.16E-06	1.16E-06	-96
1944	1962	215	23323.52	0.014	215.8351	215.5	-8.58E-07	2.57E-07	-1.97E-06	-313	94	-720	407	407	1.11E-06	1.11E-06	-130
1944	1962	216	23323.5	0.012	216.8358	216.5	-6.43E-07	3.00E-07	-1.59E-06	-235	110	-579	344	344	9.43E-07	9.43E-07	-147
1944	1962	217	23323.48	0.01	217.92	217.5	2.57E-07	1.11E-06	-6.00E-07	94	407	-219	313	313	8.58E-07	8.58E-07	333
1944	1962	218	23323.49	0.01	218.8372	218.5	-1.11E-06	-2.57E-07	-1.97E-06	-407	-94	-720	313	313	8.58E-07	8.58E-07	-77
1944	1962	219	23323.46	0.01	219.8379	219.5	-2.57E-07	6.43E-07	-1.16E-06	-94	235	-423	329	329	9.00E-07	9.00E-07	-350
1944	1962	220	23323.45	0.011	220.8386	220.5	-1.16E-06	-1.29E-07	-2.19E-06	-423	-47	-798	376	376	1.03E-06	1.03E-06	-89
1944	1962	221	23323.43	0.013	221.8392	221.5	8.15E-07	1.80E-06	-1.72E-07	297	657	-63	360	360	9.86E-07	9.86E-07	121
1944	1962	222	23323.45	0.01	222.8399	222.5	-1.67E-06	-8.15E-07	-2.53E-06	-610	-297	-923	313	313	8.58E-07	8.58E-07	-51
1944	1962	223	23323.41	0.01	223.8406	223.5	-1.07E-06	-2.14E-07	-1.93E-06	-391	-78	-704	313	313	8.58E-07	8.58E-07	-80
1944	1962	224	23323.38	0.01	224.8413	224.5	-4.72E-07	3.43E-07	-1.29E-06	-172	125	-469	297	297	8.15E-07	8.15E-07	-173
1944	1962	225	23323.37	0.009	225.9255	225.5	1.29E-07	9.43E-07	-6.86E-07	47	344	-250	297	297	8.15E-07	8.15E-07	633
1944	1962	226	23323.37	0.01	226.9262	226.5	1.54E-06	2.57E-06	5.15E-07	563	939	188	376	376	1.03E-06	1.03E-06	67
1944	1962	227	23323.41	0.014	227.9269	227.5	6.43E-08	7.50E-07	-6.22E-07	23	274	-227	250	250	6.86E-07	6.86E-07	1067
1944	1962	229	23323.41	0.018	229.8448	229.5	-1.72E-07	1.24E-06	-1.59E-06	-63	454	-579	516	516	1.41E-06	1.41E-06	-825
1944	1962	230	23323.41	0.015	230.8455	230.5	-1.16E-06	-4.29E-08	-2.27E-06	-423	-16	-829	407	407	1.11E-06	1.11E-06	-96
1944	1962	231	23323.38	0.011	231.8462	231.5	2.02E-06	2.96E-06	1.07E-06	736	1080	391	344	344	9.43E-07	9.43E-07	47
1944	1962	232	23323.43	0.011	232.1811	232.5	-1.16E-06	-1.29E-07	-2.19E-06	-423	-47	-798	376	376	1.03E-06	1.03E-06	-89
1944	1962	233	23323.4	0.013	233.1818	233.5	-6.00E-07	4.72E-07	-1.67E-06	-219	172	-610	391	391	1.07E-06	1.07E-06	-179
1944	1962	234	23323.39	0.012	234.8483	234.5	-1.97E-06	-9.86E-07	-2.96E-06	-720	-360	-1080	360	360	9.86E-07	9.86E-07	-50
1944	1962	235	23323.34	0.011	235.849	235.5	-1.07E-06	-1.29E-07	-2.02E-06	-391	-47	-736	344	344	9.43E-07	9.43E-07	-88
1944	1962	236	23323.32	0.011	236.8497	236.5	-1.11E-06	-2.14E-07	-2.02E-06	-407	-78	-736	329	329	9.00E-07	9.00E-07	-81
1944	1962	237	23323.29	0.01	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####

1944	7238	140	36425.2	0.011	140.9304	140.5	-2.28E-06	-1.67E-06	-2.88E-06	-832	-611	-1052	220	220	6.04E-07	6.04E-07	-27
1944	7238	141	36425.11	0.011	141.9311	141.5	-2.00E-06	-1.99E-06	-2.01E-06	-731	-727	-735	4	4	1.04E-08	1.04E-08	-1
1944	7238	202	36420.66	0.012	202.8476	202.5	1.29E-06	1.95E-06	6.32E-07	471	712	231	241	241	6.59E-07	6.59E-07	51
1944	7238	203	36420.71	0.012	203.8483	203.5	1.54E-06	2.20E-06	8.79E-07	561	802	321	241	241	6.59E-07	6.59E-07	43
1944	7238	204	36420.77	0.012	204.849	204.5	1.13E-06	1.44E-06	8.10E-07	411	526	296	115	115	3.16E-07	3.16E-07	28
1944	7238	206	36420.85	0.011	206.8504	206.5	-2.47E-07	3.84E-07	-8.79E-07	-90	140	-321	230	230	6.32E-07	6.32E-07	-256
1944	7238	207	36420.84	0.012	207.8511	207.5	-3.84E-07	2.47E-07	-1.02E-06	-140	90	-371	230	230	6.32E-07	6.32E-07	-164
1944	7238	208	36420.83	0.011	208.8517	208.5	-1.37E-07	4.67E-07	-7.41E-07	-50	170	-271	220	220	6.04E-07	6.04E-07	-440
1944	7238	209	36420.82	0.011	209.8524	209.5	-5.77E-07	0.00E+00	-1.15E-06	-210	0	-421	210	210	5.77E-07	5.77E-07	-100
1944	7238	210	36420.8	0.01	210.8531	210.5	-7.41E-07	-2.20E-07	-1.26E-06	-271	-80	-461	190	190	5.22E-07	5.22E-07	-70
1944	7238	211	36420.77	0.009	211.8538	211.5	5.22E-07	1.04E-06	0.00E+00	190	381	0	190	190	5.22E-07	5.22E-07	100
1944	7238	212	36420.79	0.01	212.8545	212.5	-6.59E-07	-5.49E-08	-1.26E-06	-241	-20	-461	220	220	6.04E-07	6.04E-07	-92
1944	7238	213	36420.77	0.012	213.8552	213.5	-9.61E-07	-3.29E-07	-1.59E-06	-351	-120	-581	231	231	6.32E-07	6.32E-07	-66
1944	7238	214	36420.73	0.011	214.8344	214.5	-9.88E-07	-3.29E-07	-1.65E-06	-361	-120	-601	241	241	6.59E-07	6.59E-07	-67
1944	7238	215	36420.7	0.013	215.8351	215.5	-1.07E-06	-3.84E-07	-1.76E-06	-391	-140	-641	251	251	6.86E-07	6.86E-07	-64
1944	7238	216	36420.66	0.012	216.8358	216.5	-1.65E-06	-1.02E-06	-2.28E-06	-601	-371	-832	231	231	6.32E-07	6.32E-07	-38
1944	7238	217	36420.6	0.011	217.92	217.5	-2.47E-06	-1.89E-06	-3.05E-06	-902	-692	-1112	210	210	5.77E-07	5.77E-07	-23
1944	7238	218	36420.51	0.01	218.8372	218.5	-2.06E-06	-1.46E-06	-2.66E-06	-752	-531	-972	220	220	6.04E-07	6.04E-07	-29
1944	7238	219	36420.43	0.012	219.8379	219.5	-2.33E-06	-1.70E-06	-2.97E-06	-852	-621	-1082	231	231	6.32E-07	6.32E-07	-27
1944	7238	220	36420.35	0.011	220.8386	220.5	4.94E-07	1.15E-06	-1.65E-07	180	421	-60	241	241	6.59E-07	6.59E-07	133
1944	7238	221	36420.37	0.013	221.8392	221.5	-1.95E-06	-1.32E-06	-2.58E-06	-712	-481	-942	231	231	6.32E-07	6.32E-07	-32
1944	7238	222	36420.3	0.01	222.8399	222.5	-2.80E-06	-2.25E-06	-3.35E-06	-1022	-822	-1223	200	200	5.49E-07	5.49E-07	-20
1944	7238	223	36420.19	0.01	223.8406	223.5	-2.75E-06	-2.20E-06	-3.29E-06	-1002	-802	-1203	200	200	5.49E-07	5.49E-07	-20
1944	7238	224	36420.09	0.01	224.8413	224.5	-3.08E-06	-2.55E-06	-3.60E-06	-1122	-932	-1313	190	190	5.22E-07	5.22E-07	-17
1944	7238	225	36419.98	0.009	225.9255	225.5	-3.10E-06	-2.50E-06	-3.71E-06	-1132	-912	-1353	220	220	6.04E-07	6.04E-07	-19
1944	7238	226	36419.87	0.013	226.9262	226.5	-3.43E-06	-2.72E-06	-4.15E-06	-1253	-992	-1513	261	261	7.14E-07	7.14E-07	-21
1944	7238	227	36419.74	0.013	227.9269	227.5	5.77E-07	9.47E-07	2.06E-07	210	346	75	135	135	3.71E-07	3.71E-07	64
1944	7238	229	36419.79	0.014	229.8448	229.5	-5.49E-07	1.92E-07	-1.29E-06	-200	70	-471	271	271	7.41E-07	7.41E-07	-135
1944	7238	230	36419.77	0.013	230.8455	230.5	-1.24E-06	-5.49E-07	-1.92E-06	-451	-200	-702	251	251	6.86E-07	6.86E-07	-56
1944	7238	231	36419.72	0.012	231.8462	231.5	-4.91E-06	-4.34E-06	-5.49E-06	-1794	-1583	-2004	210	210	5.77E-07	5.77E-07	-12
1944	7238	232	36419.54	0.009	232.1811	232.5	-1.95E-06	-1.40E-06	-2.50E-06	-712	-511	-912	200	200	5.49E-07	5.49E-07	-28
1944	7238	233	36419.47	0.011	233.1818	233.5	-1.10E-06	-4.67E-07	-1.73E-06	-401	-170	-631	231	231	6.32E-07	6.32E-07	-58
1944	7238	234	36419.43	0.012	234.8483	234.5	-1.70E-06	-1.10E-06	-2.31E-06	-621	-401	-842	220	220	6.04E-07	6.04E-07	-35
1944	7238	235	36419.37	0.01	235.849	235.5	-2.33E-06	-1.76E-06	-2.91E-06	-852	-641	-1062	210	210	5.77E-07	5.77E-07	-25
1944	7238	236	36419.28	0.011	236.8497	236.5	-2.39E-06	-1.84E-06	-2.94E-06	-872	-671	-1072	200	200	5.49E-07	5.49E-07	-23
1944	7238	237	36419.2	0.009	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####

1944	7244	140	2025.649	0.009	140.9304	140.5	2.47E-06	1.14E-05	-6.42E-06	901	4144	-2342	3243	3243	8.89E-06	8.89E-06	360
1944	7244	141	2025.654	0.009	141.9311	141.5	2.10E-06	4.69E-06	-4.94E-07	766	1712	-180	946	946	2.59E-06	2.59E-06	124
1944	7244	145	2025.671	0.012	145.8504	145.5	1.97E-06	1.38E-05	-9.87E-06	721	5045	-3604	4324	4324	1.18E-05	1.18E-05	600
1944	7244	146	2025.675	0.012	146.8511	146.5	2.18E-06	2.38E-06	1.97E-06	795	869	721	74	74	2.03E-07	2.03E-07	9
1944	7244	202	2025.922	0.011	202.8476	202.5	4.94E-07	1.14E-05	-1.04E-05	180	4144	-3783	3964	3964	1.09E-05	1.09E-05	2200
1944	7244	203	2025.923	0.011	203.8483	203.5	3.95E-06	1.38E-05	-5.92E-06	1441	5045	-2162	3603	3603	9.87E-06	9.87E-06	250
1944	7244	204	2025.931	0.009	204.849	204.5	9.87E-07	4.94E-06	-2.96E-06	360	1802	-1081	1441	1441	3.95E-06	3.95E-06	400
1944	7244	206	2025.935	0.007	206.8504	206.5	5.92E-06	1.28E-05	-9.87E-07	2162	4684	-360	2522	2522	6.91E-06	6.91E-06	117
1944	7244	207	2025.947	0.007	207.8511	207.5	4.44E-06	1.23E-05	-3.46E-06	1621	4504	-1261	2883	2883	7.90E-06	7.90E-06	178
1944	7244	208	2025.956	0.009	208.8517	208.5	8.88E-06	1.73E-05	4.94E-07	3243	6306	180	3063	3063	8.39E-06	8.39E-06	94
1944	7244	209	2025.974	0.008	209.8524	209.5	4.94E-07	7.90E-06	-6.91E-06	180	2883	-2522	2702	2702	7.40E-06	7.40E-06	1500
1944	7244	210	2025.975	0.007	210.8531	210.5	1.14E-05	1.83E-05	4.44E-06	4144	6666	1621	2522	2522	6.91E-06	6.91E-06	61
1944	7244	211	2025.998	0.007	211.8538	211.5	4.94E-06	1.18E-05	-1.97E-06	1802	4324	-721	2522	2522	6.91E-06	6.91E-06	140
1944	7244	212	2026.008	0.007	212.8545	212.5	4.94E-07	7.90E-06	-6.91E-06	180	2883	-2522	2702	2702	7.40E-06	7.40E-06	1500
1944	7244	213	2026.009	0.008	213.8552	213.5	3.95E-06	1.14E-05	-3.46E-06	1441	4144	-1261	2702	2702	7.40E-06	7.40E-06	188
1944	7244	214	2026.017	0.007	214.8344	214.5	4.94E-06	1.28E-05	-2.96E-06	1802	4684	-1081	2882	2882	7.90E-06	7.90E-06	160
1944	7244	215	2026.027	0.009	215.8351	215.5	8.39E-06	1.68E-05	0.00E+00	3063	6125	0	3063	3063	8.39E-06	8.39E-06	100
1944	7244	216	2026.044	0.008	216.8358	216.5	7.90E-06	1.53E-05	4.94E-07	2882	5585	180	2702	2702	7.40E-06	7.40E-06	94
1944	7244	217	2026.06	0.007	217.92	217.5	8.88E-06	1.58E-05	1.97E-06	3243	5765	721	2522	2522	6.91E-06	6.91E-06	78
1944	7244	218	2026.078	0.007	218.8372	218.5	6.91E-06	1.38E-05	0.00E+00	2522	5044	0	2522	2522	6.91E-06	6.91E-06	100
1944	7244	219	2026.092	0.007	219.8379	219.5	3.45E-06	1.04E-05	-3.45E-06	1261	3783	-1261	2522	2522	6.91E-06	6.91E-06	200
1944	7244	220	2026.099	0.007	220.8386	220.5	5.43E-06	1.28E-05	-1.97E-06	1982	4684	-721	2702	2702	7.40E-06	7.40E-06	136
1944	7244	221	2026.11	0.008	221.8392	221.5	2.47E-06	9.87E-06	-4.94E-06	901	3603	-1801	2702	2702	7.40E-06	7.40E-06	300
1944	7244	222	2026.115	0.007	222.8399	222.5	2.47E-06	9.38E-06	-4.44E-06	901	3423	-1621	2522	2522	6.91E-06	6.91E-06	280
1944	7244	223	2026.12	0.007	223.8406	223.5	4.94E-06	1.18E-05	-1.97E-06	1801	4324	-721	2522	2522	6.91E-06	6.91E-06	140
1944	7244	224	2026.13	0.007	224.8413	224.5	5.43E-06	1.18E-05	-9.87E-07	1982	4324	-360	2342	2342	6.42E-06	6.42E-06	118
1944	7244	225	2026.141	0.006	225.9255	225.5	6.42E-06	1.28E-05	-1.11E-16	2342	4684	0	2342	2342	6.42E-06	6.42E-06	100
1944	7244	226	2026.154	0.007	226.9262	226.5	2.12E-05	2.86E-05	1.38E-05	7746	10448	5044	2702	2702	7.40E-06	7.40E-06	35
1944	7244	227	2026.197	0.008	227.9269	227.5	5.43E-06	9.87E-06	9.87E-07	1982	3603	360	1621	1621	4.44E-06	4.44E-06	82
1944	7244	229	2026.219	0.01	229.8448	229.5	2.47E-06	1.23E-05	-7.40E-06	901	4503	-2702	3603	3603	9.87E-06	9.87E-06	400
1944	7244	230	2026.224	0.01	230.8455	230.5	7.40E-06	1.63E-05	-1.48E-06	2702	5945	-540	3242	3242	8.88E-06	8.88E-06	120
1944	7244	231	2026.239	0.008	231.8462	231.5	7.40E-06	1.53E-05	-4.94E-07	2702	5584	-180	2882	2882	7.90E-06	7.90E-06	107
1944	7244	232	2026.254	0.008	232.1811	232.5	5.92E-06	1.38E-05	-1.97E-06	2162	5044	-721	2882	2882	7.90E-06	7.90E-06	133
1944	7244	233	2026.266	0.008	233.1818	233.5	3.95E-06	1.23E-05	-4.44E-06	1441	4503	-1621	3062	3062	8.39E-06	8.39E-06	212
1944	7244	234	2026.274	0.009	234.8483	234.5	0.00E+00	8.39E-06	-8.39E-06	0	3062	-3062	3062	3062	8.39E-06	8.39E-06	0
1944	7244	235	2026.274	0.008	235.849	235.5	3.95E-06	1.18E-05	-3.95E-06	1441	4323	-1441	2882	2882	7.90E-06	7.90E-06	200
1944	7244	236	2026.282	0.008	236.8497	236.5	4.94E-07	8.39E-06	-7.40E-06	180	3062	-2702	2882	2882	7.90E-06	7.90E-06	1600
1944	7244	237	2026.283	0.008	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1945	1948	140	18144.45	0.011	140.9304	140.5	-6.89E-06	-5.62E-06	-8.16E-06	-2515	-2052	-2977	463	463	1.27E-06	1.27E-06	-18
1945	1948	141	18144.32	0.012	141.9311	141.5	-6.89E-06	-6.54E-06	-7.23E-06	-2515	-2389	-2640	126	126	3.44E-07	3.44E-07	-5
1945	1948	145	18143.82	0.013	145.8504	145.5	-6.89E-06	-5.46E-06	-8.32E-06	-2515	-1992	-3038	523	523	1.43E-06	1.43E-06	-21
1945	1948	146	18143.7	0.013	146.8511	146.5	-7.16E-06	-7.04E-06	-7.28E-06	-2612	-2568	-2656	44	44	1.20E-07	1.20E-07	-2
1945	1948	157	18142.27	0.011	157.8372	157.5	-6.78E-06	-5.57E-06	-7.99E-06	-2475	-2032	-2917	443	443	1.21E-06	1.21E-06	-18
1945	1948	158	18142.14	0.011	158.8379	158.5	-7.17E-06	-5.95E-06	-8.38E-06	-2615	-2173	-3058	443	443	1.21E-06	1.21E-06	-17
1945	1948	159	18142.01	0.011	159.8386	159.5	-7.11E-06	-5.95E-06	-8.27E-06	-2595	-2173	-3018	423	423	1.16E-06	1.16E-06	-16
1945	1948	160	18141.89	0.01	160.8392	160.5	-7.22E-06	-6.12E-06	-8.32E-06	-2636	-2233	-3038	402	402	1.10E-06	1.10E-06	-15
1945	1948	161	18141.75	0.01	161.8399	161.5	-6.50E-06	-6.47E-06	-6.54E-06	-2373	-2361	-2385	12	12	3.34E-08	3.34E-08	-1
1945	1948	198	18137.27	0.013	198.8448	198.5	-5.90E-06	-4.36E-06	-7.44E-06	-2153	-1590	-2717	563	563	1.54E-06	1.54E-06	-26
1945	1948	199	18137.17	0.015	199.8455	199.5	-4.74E-06	-3.09E-06	-6.40E-06	-1731	-1127	-2334	604	604	1.65E-06	1.65E-06	-35
1945	1948	200	18137.08	0.015	200.8462	200.5	-5.24E-06	-3.64E-06	-6.84E-06	-1912	-1328	-2495	584	584	1.60E-06	1.60E-06	-31
1945	1948	201	18136.98	0.014	201.8469	201.5	-1.65E-07	1.38E-06	-1.71E-06	-60	503	-624	563	563	1.54E-06	1.54E-06	-933
1945	1948	202	18136.98	0.014	202.8476	202.5	-2.92E-06	-1.43E-06	-4.41E-06	-1067	-523	-1610	543	543	1.49E-06	1.49E-06	-51
1945	1948	203	18136.93	0.013	203.8483	203.5	-1.21E-06	3.31E-07	-2.76E-06	-443	121	-1006	563	563	1.54E-06	1.54E-06	-127
1945	1948	204	18136.91	0.015	204.849	204.5	-6.70E-06	-5.93E-06	-7.47E-06	-2445	-2163	-2727	282	282	7.72E-07	7.72E-07	-12
1945	1948	206	18136.66	0.013	206.8504	206.5	-8.44E-06	-7.00E-06	-9.87E-06	-3079	-2556	-3602	523	523	1.43E-06	1.43E-06	-17
1945	1948	207	18136.51	0.013	207.8511	207.5	-9.15E-06	-7.66E-06	-1.06E-05	-3341	-2797	-3884	543	543	1.49E-06	1.49E-06	-16
1945	1948	208	18136.34	0.014	208.8517	208.5	-7.00E-06	-5.51E-06	-8.49E-06	-2556	-2013	-3099	543	543	1.49E-06	1.49E-06	-21
1945	1948	209	18136.22	0.013	209.8524	209.5	-7.72E-06	-6.34E-06	-9.10E-06	-2818	-2314	-3321	503	503	1.38E-06	1.38E-06	-18
1945	1948	210	18136.08	0.012	210.8531	210.5	-9.87E-06	-8.44E-06	-1.13E-05	-3603	-3079	-4126	523	523	1.43E-06	1.43E-06	-15
1945	1948	211	18135.9	0.014	211.8538	211.5	-7.55E-06	-6.07E-06	-9.04E-06	-2757	-2214	-3301	543	543	1.49E-06	1.49E-06	-20
1945	1948	212	18135.76	0.013	212.8545	212.5	-8.05E-06	-6.56E-06	-9.54E-06	-2938	-2395	-3482	543	543	1.49E-06	1.49E-06	-18
1945	1948	213	18135.62	0.014	213.8552	213.5	-7.06E-06	-5.62E-06	-8.49E-06	-2576	-2053	-3099	523	523	1.43E-06	1.43E-06	-20
1945	1948	214	18135.49	0.012	214.8344	214.5	-8.22E-06	-6.56E-06	-9.87E-06	-2999	-2395	-3603	604	604	1.65E-06	1.65E-06	-20
1945	1948	215	18135.34	0.018	215.8351	215.5	-2.54E-06	-8.82E-07	-4.19E-06	-926	-322	-1530	604	604	1.65E-06	1.65E-06	-65
1945	1948	216	18135.29	0.012	216.8358	216.5	-1.30E-05	-1.16E-05	-1.44E-05	-4750	-4227	-5273	523	523	1.43E-06	1.43E-06	-11
1945	1948	217	18135.06	0.014	217.92	217.5	-6.12E-06	-4.74E-06	-7.50E-06	-2234	-1731	-2737	503	503	1.38E-06	1.38E-06	-23
1945	1948	218	18134.95	0.011	218.8372	218.5	-1.06E-04	-1.04E-04	-1.07E-04	-38605	-38082	-39129	523	523	1.43E-06	1.43E-06	-1
1945	1948	219	18133.03	0.015	219.8379	219.5	-1.53E-05	-1.37E-05	-1.70E-05	-5596	-4992	-6200	604	604	1.65E-06	1.65E-06	-11
1945	1948	220	18132.75	0.015	220.8386	220.5	-1.13E-05	-9.49E-06	-1.30E-05	-4106	-3462	-4751	644	644	1.76E-06	1.76E-06	-16
1945	1948	221	18132.55	0.017	221.8392	221.5	-1.31E-05	-1.11E-05	-1.50E-05	-4771	-4066	-5475	705	705	1.93E-06	1.93E-06	-15
1945	1948	222	18132.31	0.018	222.8399	222.5	-2.01E-05	-1.84E-05	-2.19E-05	-7347	-6703	-7992	644	644	1.76E-06	1.76E-06	-9
1945	1948	224	18131.94	0.014	224.8413	224.5	-1.25E-05	-1.07E-05	-1.42E-05	-4549	-3905	-5194	644	644	1.76E-06	1.76E-06	-14
1945	1948	225	18131.72	0.018	225.9255	225.5	-5.52E-06	-3.58E-06	-7.45E-06	-2013	-1308	-2718	705	705	1.93E-06	1.93E-06	-35
1945	1948	226	18131.62	0.017	226.9262	226.5	-1.24E-05	-1.02E-05	-1.45E-05	-4509	-3724	-5294	785	785	2.15E-06	2.15E-06	-17
1945	1948	227	18131.39	0.022	227.9269	227.5	-6.55E-06	-5.94E-06	-7.16E-06	-2391	-2169	-2612	221	221	6.07E-07	6.07E-07	-9
1945	1948	231	18130.92	0.022	231.8462	231.5	-1.11E-05	-8.88E-06	-1.33E-05	-4046	-3241	-4852	805	805	2.21E-06	2.21E-06	-20
1945	1948	232	18130.72	0.018	232.1811	232.5	-6.62E-06	-4.69E-06	-8.55E-06	-2416	-1711	-3120	705	705	1.93E-06	1.93E-06	-29
1945	1948	233	18130.6	0.017	233.1818	233.5	-3.97E-06	-2.15E-06	-5.79E-06	-1449	-785	-2114	664	664	1.82E-06	1.82E-06	-46
1945	1948	234	18130.53	0.016	234.8483	234.5	-6.78E-06	-5.02E-06	-8.55E-06	-2476	-1832	-3120	644	644	1.76E-06	1.76E-06	-26
1945	1948	235	18130.4	0.016	235.849	235.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####

1945	1950	127	35451.7	0.011	127.8379	127.5	-3.24E-06	-3.19E-06	-3.29E-06	-1184	-1166	-1202	18	18	4.99E-08	4.99E-08	-2
1945	1950	140	35450.2	0.012	140.9304	140.5	-3.27E-06	-2.60E-06	-3.95E-06	-1194	-947	-1441	247	247	6.77E-07	6.77E-07	-21
1945	1950	141	35450.09	0.012	141.9311	141.5	-3.17E-06	-3.12E-06	-3.21E-06	-1156	-1140	-1171	15	15	4.23E-08	4.23E-08	-1
1945	1950	157	35448.29	0.012	157.8372	157.5	-2.80E-06	-2.78E-06	-2.81E-06	-1021	-1016	-1027	5	5	1.50E-08	1.50E-08	-1
1945	1950	202	35443.83	0.012	202.8476	202.5	2.54E-07	9.59E-07	-4.51E-07	93	350	-165	257	257	7.05E-07	7.05E-07	278
1945	1950	203	35443.84	0.013	203.8483	203.5	6.49E-07	1.44E-06	-1.41E-07	237	525	-51	288	288	7.90E-07	7.90E-07	122
1945	1950	204	35443.86	0.015	204.849	204.5	-5.36E-07	-1.27E-07	-9.45E-07	-196	-46	-345	149	149	4.09E-07	4.09E-07	-76
1945	1950	206	35443.82	0.014	206.8504	206.5	-1.81E-06	-1.02E-06	-2.60E-06	-659	-371	-947	288	288	7.90E-07	7.90E-07	-44
1945	1950	207	35443.76	0.014	207.8511	207.5	-1.75E-06	-1.02E-06	-2.48E-06	-638	-371	-906	268	268	7.34E-07	7.34E-07	-42
1945	1950	208	35443.69	0.012	208.8517	208.5	-1.58E-06	-8.75E-07	-2.29E-06	-577	-319	-834	257	257	7.05E-07	7.05E-07	-45
1945	1950	209	35443.64	0.013	209.8524	209.5	-1.92E-06	-1.24E-06	-2.60E-06	-700	-453	-947	247	247	6.77E-07	6.77E-07	-35
1945	1950	210	35443.57	0.011	210.8531	210.5	-2.23E-06	-1.58E-06	-2.88E-06	-814	-577	-1050	237	237	6.49E-07	6.49E-07	-29
1945	1950	211	35443.49	0.012	211.8538	211.5	-1.78E-06	-1.13E-06	-2.43E-06	-649	-412	-886	237	237	6.49E-07	6.49E-07	-37
1945	1950	212	35443.43	0.011	212.8545	212.5	-1.92E-06	-1.21E-06	-2.62E-06	-700	-443	-958	257	257	7.05E-07	7.05E-07	-37
1945	1950	213	35443.36	0.014	213.8552	213.5	-1.81E-06	-1.02E-06	-2.60E-06	-659	-371	-947	288	288	7.90E-07	7.90E-07	-44
1945	1950	214	35443.3	0.014	214.8344	214.5	-1.97E-06	-1.10E-06	-2.85E-06	-721	-402	-1040	319	319	8.75E-07	8.75E-07	-44
1945	1950	215	35443.23	0.017	215.8351	215.5	-2.26E-06	-1.41E-06	-3.10E-06	-824	-515	-1133	309	309	8.46E-07	8.46E-07	-37
1945	1950	216	35443.15	0.013	216.8358	216.5	-3.05E-06	-2.37E-06	-3.72E-06	-1112	-865	-1359	247	247	6.77E-07	6.77E-07	-22
1945	1950	217	35443.04	0.011	217.92	217.5	-3.16E-06	-2.51E-06	-3.81E-06	-1153	-917	-1390	237	237	6.49E-07	6.49E-07	-21
1945	1950	218	35442.93	0.012	218.8372	218.5	-2.54E-06	-1.83E-06	-3.24E-06	-927	-669	-1184	257	257	7.05E-07	7.05E-07	-28
1945	1950	219	35442.84	0.013	219.8379	219.5	-3.50E-06	-2.77E-06	-4.23E-06	-1277	-1009	-1545	268	268	7.34E-07	7.34E-07	-21
1945	1950	220	35442.71	0.013	220.8386	220.5	-1.44E-06	-7.05E-07	-2.17E-06	-525	-257	-793	268	268	7.34E-07	7.34E-07	-51
1945	1950	221	35442.66	0.013	221.8392	221.5	-2.99E-06	-2.29E-06	-3.70E-06	-1092	-834	-1349	257	257	7.05E-07	7.05E-07	-24
1945	1950	222	35442.56	0.012	222.8399	222.5	-3.47E-06	-2.79E-06	-4.15E-06	-1267	-1020	-1514	247	247	6.77E-07	6.77E-07	-20
1945	1950	223	35442.43	0.012	223.8406	223.5	-3.08E-06	-2.37E-06	-3.78E-06	-1123	-865	-1380	257	257	7.05E-07	7.05E-07	-23
1945	1950	224	35442.32	0.013	224.8413	224.5	-3.89E-06	-3.19E-06	-4.60E-06	-1421	-1164	-1679	257	257	7.05E-07	7.05E-07	-18
1945	1950	225	35442.19	0.012	225.9255	225.5	-2.71E-06	-1.95E-06	-3.47E-06	-989	-711	-1267	278	278	7.62E-07	7.62E-07	-28
1945	1950	226	35442.09	0.015	226.9262	226.5	-4.32E-06	-3.41E-06	-5.22E-06	-1576	-1246	-1905	330	330	9.03E-07	9.03E-07	-21
1945	1950	227	35441.94	0.017	227.9269	227.5	-5.64E-07	-8.46E-08	-1.04E-06	-206	-31	-381	175	175	4.80E-07	4.80E-07	-85
1945	1950	229	35441.9	0.017	229.8448	229.5	-2.34E-06	-1.50E-06	-3.19E-06	-855	-546	-1164	309	309	8.46E-07	8.46E-07	-36
1945	1950	230	35441.81	0.013	230.8455	230.5	-2.82E-06	-2.09E-06	-3.56E-06	-1030	-762	-1298	268	268	7.34E-07	7.34E-07	-26
1945	1950	231	35441.71	0.013	231.8462	231.5	-6.63E-06	-6.01E-06	-7.25E-06	-2420	-2194	-2647	227	227	6.21E-07	6.21E-07	-9
1945	1950	232	35441.48	0.009	232.1811	232.5	-3.08E-06	-2.51E-06	-3.64E-06	-1123	-917	-1329	206	206	5.64E-07	5.64E-07	-18
1945	1950	233	35441.37	0.011	233.1818	233.5	-1.78E-06	-1.13E-06	-2.43E-06	-649	-412	-886	237	237	6.49E-07	6.49E-07	-37
1945	1950	234	35441.31	0.012	234.8483	234.5	-2.74E-06	-2.06E-06	-3.41E-06	-999	-752	-1246	247	247	6.77E-07	6.77E-07	-25
1945	1950	235	35441.21	0.012	235.849	235.5	-3.05E-06	-2.40E-06	-3.70E-06	-1112	-875	-1349	237	237	6.49E-07	6.49E-07	-21
1945	1950	236	35441.1	0.011	236.8497	236.5	-3.02E-06	-2.40E-06	-3.64E-06	-1102	-875	-1329	227	227	6.21E-07	6.21E-07	-21
1945	1950	237	35440.99	0.011	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1945	1951	126	1258.779	0.009	126.8372	126.5	-4.77E-06	9.53E-06	-1.91E-05	-1740	3480	-6959	5219	5219	1.43E-05	1.43E-05	-300
1945	1951	127	1258.773	0.009	127.8379	127.5	-4.83E-06	-3.67E-06	-5.99E-06	-1762	-1338	-2186	424	424	1.16E-06	1.16E-06	-24
1945	1951	140	1258.694	0.01	140.9304	140.5	-2.38E-06	1.67E-05	-2.15E-05	-870	6090	-7830	6960	6960	1.91E-05	1.91E-05	-800
1945	1951	141	1258.691	0.014	141.9311	141.5	-4.62E-06	-3.43E-06	-5.81E-06	-1686	-1251	-2121	435	435	1.19E-06	1.19E-06	-26
1945	1951	157	1258.598	0.01	157.8372	157.5	-1.59E-06	1.51E-05	-1.83E-05	-580	5510	-6670	6090	6090	1.67E-05	1.67E-05	-1050
1945	1951	158	1258.596	0.011	158.8379	158.5	-7.15E-06	9.53E-06	-2.38E-05	-2610	3480	-8700	6090	6090	1.67E-05	1.67E-05	-233
1945	1951	159	1258.587	0.01	159.8386	159.5	-3.97E-06	1.19E-05	-1.99E-05	-1450	4350	-7250	5800	5800	1.59E-05	1.59E-05	-400
1945	1951	160	1258.582	0.01	160.8392	160.5	-5.56E-06	1.11E-05	-2.22E-05	-2030	4060	-8120	6090	6090	1.67E-05	1.67E-05	-300
1945	1951	161	1258.575	0.011	161.8399	161.5	-5.50E-06	-5.03E-06	-5.97E-06	-2007	-1834	-2179	172	172	4.72E-07	4.72E-07	-9
1945	1951	198	1258.319	0.011	198.8448	198.5	-1.03E-05	7.15E-06	-2.78E-05	-3771	2611	-10152	6382	6382	1.75E-05	1.75E-05	-169
1945	1951	199	1258.306	0.011	199.8455	199.5	-1.43E-05	3.97E-06	-3.26E-05	-5221	1450	-11893	6672	6672	1.83E-05	1.83E-05	-128
1945	1951	200	1258.288	0.012	200.8462	200.5	-1.67E-05	3.18E-06	-3.66E-05	-6092	1160	-13344	7252	7252	1.99E-05	1.99E-05	-119
1945	1951	201	1258.267	0.013	201.8469	201.5	2.38E-06	2.23E-05	-1.75E-05	870	8122	-6382	7252	7252	1.99E-05	1.99E-05	833
1945	1951	202	1258.27	0.012	202.8476	202.5	-1.91E-05	0.00E+00	-3.81E-05	-6962	0	-13924	6962	6962	1.91E-05	1.91E-05	-100
1945	1951	203	1258.246	0.012	203.8483	203.5	-1.99E-05	-2.22E-16	-3.97E-05	-7252	0	-14504	7252	7252	1.99E-05	1.99E-05	-100
1945	1951	204	1258.221	0.013	204.849	204.5	-4.77E-06	5.56E-06	-1.51E-05	-1741	2031	-5512	3771	3771	1.03E-05	1.03E-05	-217
1945	1951	206	1258.209	0.013	206.8504	206.5	-8.74E-06	1.11E-05	-2.86E-05	-3191	4061	-10443	7252	7252	1.99E-05	1.99E-05	-227
1945	1951	207	1258.198	0.012	207.8511	207.5	-1.35E-05	5.56E-06	-3.26E-05	-4932	2031	-11894	6962	6962	1.91E-05	1.91E-05	-141
1945	1951	208	1258.181	0.012	208.8517	208.5	-7.95E-06	1.11E-05	-2.70E-05	-2901	4061	-9863	6962	6962	1.91E-05	1.91E-05	-240
1945	1951	209	1258.171	0.012	209.8524	209.5	-2.38E-06	1.59E-05	-2.07E-05	-870	5802	-7543	6672	6672	1.83E-05	1.83E-05	-767
1945	1951	210	1258.168	0.011	210.8531	210.5	-1.27E-05	5.56E-06	-3.10E-05	-4642	2031	-11314	6672	6672	1.83E-05	1.83E-05	-144
1945	1951	211	1258.152	0.012	211.8538	211.5	1.59E-06	2.07E-05	-1.75E-05	580	7543	-6382	6963	6963	1.91E-05	1.91E-05	1200
1945	1951	212	1258.154	0.012	212.8545	212.5	-6.36E-06	1.43E-05	-2.70E-05	-2321	5222	-9864	7543	7543	2.07E-05	2.07E-05	-325
1945	1951	213	1258.146	0.014	213.8552	213.5	-1.19E-05	1.03E-05	-3.42E-05	-4352	3771	-12475	8123	8123	2.23E-05	2.23E-05	-187
1945	1951	214	1258.131	0.014	214.8344	214.5	-3.97E-06	1.83E-05	-2.62E-05	-1451	6673	-9574	8123	8123	2.23E-05	2.23E-05	-560
1945	1951	215	1258.126	0.014	215.8351	215.5	-1.03E-05	1.11E-05	-3.18E-05	-3772	4062	-11605	7833	7833	2.15E-05	2.15E-05	-208
1945	1951	216	1258.113	0.013	216.8358	216.5	-6.36E-06	1.27E-05	-2.54E-05	-2321	4642	-9284	6963	6963	1.91E-05	1.91E-05	-300
1945	1951	217	1258.105	0.011	217.92	217.5	1.59E-06	1.91E-05	-1.59E-05	580	6963	-5802	6383	6383	1.75E-05	1.75E-05	1100
1945	1951	218	1258.107	0.011	218.8372	218.5	-2.46E-05	-6.36E-06	-4.29E-05	-8994	-2321	-15667	6673	6673	1.83E-05	1.83E-05	-74
1945	1951	219	1258.076	0.012	219.8379	219.5	-7.95E-07	1.83E-05	-1.99E-05	-290	6673	-7253	6963	6963	1.91E-05	1.91E-05	-2400
1945	1951	220	1258.075	0.012	220.8386	220.5	-2.07E-05	-2.22E-16	-4.13E-05	-7543	0	-15087	7543	7543	2.07E-05	2.07E-05	-100
1945	1951	221	1258.049	0.014	221.8392	221.5	2.38E-06	2.23E-05	-1.75E-05	870	8124	-6383	7253	7253	1.99E-05	1.99E-05	833
1945	1951	222	1258.052	0.011	222.8399	222.5	-7.15E-06	1.03E-05	-2.46E-05	-2611	3772	-8994	6383	6383	1.75E-05	1.75E-05	-244
1945	1951	223	1258.043	0.011	223.8406	223.5	-1.51E-05	3.18E-06	-3.34E-05	-5513	1161	-12186	6673	6673	1.83E-05	1.83E-05	-121
1945	1951	224	1258.024	0.012	224.8413	224.5	0.00E+00	1.83E-05	-1.83E-05	0	6673	-6673	6673	6673	1.83E-05	1.83E-05	0
1945	1951	225	1258.024	0.011	225.9255	225.5	-3.74E-05	-1.83E-05	-5.64E-05	-13637	-6673	-20600	6963	6963	1.91E-05	1.91E-05	-51
1945	1951	226	1257.977	0.013	226.9262	226.5	0.00E+00	2.07E-05	-2.07E-05	0	7544	-7544	7544	7544	2.07E-05	2.07E-05	0
1945	1951	227	1257.977	0.013	227.9269	227.5	-7.15E-06	4.37E-06	-1.87E-05	-2611	1596	-6819	4207	4207	1.15E-05	1.15E-05	-161
1945	1951	229	1257.959	0.016	229.8448	229.5	0.00E+00	2.31E-05	-2.31E-05	0	8414	-8414	8414	8414	2.31E-05	2.31E-05	0
1945	1951	230	1257.959	0.013	230.8455	230.5	-7.15E-06	1.35E-05	-2.78E-05	-2611	4933	-10155	7544	7544	2.07E-05	2.07E-05	-289
1945	1951	231	1257.95	0.013	231.8462	231.5	-3.97E-06	1.35E-05	-2.15E-05	-1451	4933	-7834	6383	6383	1.75E-05	1.75E-05	-440
1945	1951	232	1257.945	0.009	232.1811	232.5	-9.54E-06	5.56E-06	-2.46E-05	-3482	2031	-8995	5513	5513	1.51E-05	1.51E-05	-158
1945	1951	233	1257.933	0.01	233.1818	233.5	-1.59E-06	1.59E-05	-1.91E-05	-580	5803	-6964	6383	6383	1.75E-05	1.75E-05	-1100
1945	1951	234	1257.931	0.012	234.8483	234.5	-6.36E-06	1.27E-05	-2.54E-05	-2321	4643	-9285	6964	6964	1.91E-05	1.91E-05	-300
1945	1951	235	1257.923	0.012	235.849	235.5	-9.54E-06	8.74E-06	-2.78E-05	-3482	3192	-10156	6674	6674	1.83E-05	1.83E-05	-192
1945	1951	236	1257.911	0.011	236.8497	236.5	-6.36E-06	1.19E-05	-2.46E-05	-2321	4352	-8995	6674	6674	1.83E-05	1.83E-05	-287
1945	1951	237	1257.903	0.012	237.8504	237.5	-4.64E-06	-3.72E-06	-5.57E-06	-1695	-1359	-2031	336	336	9.21E-07	9.21E-07	-20
1945	1951	256	1257.792	0.01	256.842	256.5	-5.57E-06	1.11E-05	-2.23E-05	-2031	4063	-8125	6094	6094	1.67E-05	1.67E-05	-300
1945	1951	257	1257.785	0.011	257.8427	257.5	0.00E+00	1.75E-05	-1.75E-05	0	6384	-6384	6384	6384	1.75E-05	1.75E-05	0
1945	1951	258	1257.785	0.011	258.8434	258.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1945	1956	126	1770.263	0.011	126.8372	126.5	7.34E-06	1.92E-05	-4.52E-06	2680	7010	-1649	4330	4330	1.19E-05	1.19E-05	162
1945	1956	127	1770.276	0.01	127.8379	127.5	7.56E-06	8.43E-06	6.69E-06	2760	3077	2442	317	317	8.69E-07	8.69E-07	11
1945	1956	140	1770.45	0.01	140.9304	140.5	8.47E-06	2.15E-05	-4.52E-06	3092	7834	-1649	4742	4742	1.30E-05	1.30E-05	153
1945	1956	141	1770.465	0.013	141.9311	141.5	7.24E-06	8.05E-06	6.42E-06	2641	2938	2345	296	296	8.12E-07	8.12E-07	11
1945	1956	157	1770.67	0.01	157.8372	157.5	7.34E-06	1.92E-05	-4.52E-06	2680	7009	-1649	4329	4329	1.19E-05	1.19E-05	162
1945	1956	158	1770.683	0.011	158.8379	158.5	6.78E-06	1.81E-05	-4.52E-06	2474	6596	-1649	4123	4123	1.13E-05	1.13E-05	167
1945	1956	159	1770.695	0.009	159.8386	159.5	6.78E-06	1.75E-05	-3.95E-06	2474	6390	-1443	3917	3917	1.07E-05	1.07E-05	158
1945	1956	160	1770.707	0.01	160.8392	160.5	6.78E-06	1.81E-05	-4.52E-06	2474	6596	-1649	4123	4123	1.13E-05	1.13E-05	167
1945	1956	161	1770.719	0.01	161.8399	161.5	7.78E-06	8.15E-06	7.42E-06	2841	2975	2707	134	134	3.66E-07	3.66E-07	5
1945	1956	198	1771.229	0.014	198.8448	198.5	8.47E-06	2.48E-05	-7.90E-06	3091	9067	-2885	5976	5976	1.64E-05	1.64E-05	193
1945	1956	199	1771.244	0.015	199.8455	199.5	9.03E-06	2.65E-05	-8.47E-06	3297	9685	-3091	6388	6388	1.75E-05	1.75E-05	194
1945	1956	200	1771.26	0.016	200.8462	200.5	2.82E-06	2.09E-05	-1.52E-05	1030	7625	-5564	6594	6594	1.81E-05	1.81E-05	640
1945	1956	201	1771.265	0.016	201.8469	201.5	2.09E-05	3.78E-05	3.95E-06	7624	13806	1442	6182	6182	1.69E-05	1.69E-05	81
1945	1956	202	1771.302	0.014	202.8476	202.5	1.52E-05	3.05E-05	2.22E-16	5564	11127	0	5564	5564	1.52E-05	1.52E-05	100
1945	1956	203	1771.329	0.013	203.8483	203.5	1.64E-05	3.10E-05	1.69E-06	5976	11333	618	5358	5358	1.47E-05	1.47E-05	90
1945	1956	204	1771.358	0.013	204.849	204.5	1.83E-05	2.57E-05	1.10E-05	6697	9375	4018	2679	2679	7.34E-06	7.34E-06	40
1945	1956	206	1771.423	0.013	206.8504	206.5	2.43E-05	3.90E-05	9.60E-06	8860	14217	3503	5357	5357	1.47E-05	1.47E-05	60
1945	1956	207	1771.466	0.013	207.8511	207.5	1.19E-05	2.65E-05	-2.82E-06	4327	9684	-1030	5357	5357	1.47E-05	1.47E-05	124
1945	1956	208	1771.487	0.013	208.8517	208.5	1.58E-05	3.05E-05	1.13E-06	5769	11126	412	5357	5357	1.47E-05	1.47E-05	93
1945	1956	209	1771.515	0.013	209.8524	209.5	1.30E-05	2.65E-05	-5.64E-07	4739	9684	-206	4945	4945	1.35E-05	1.35E-05	104
1945	1956	210	1771.538	0.011	210.8531	210.5	1.64E-05	2.99E-05	2.82E-06	5975	10920	1030	4945	4945	1.35E-05	1.35E-05	83
1945	1956	211	1771.567	0.013	211.8538	211.5	2.31E-05	3.78E-05	8.47E-06	8447	13804	3090	5357	5357	1.47E-05	1.47E-05	63
1945	1956	212	1771.608	0.013	212.8545	212.5	1.30E-05	2.88E-05	-2.82E-06	4739	10507	-1030	5769	5769	1.58E-05	1.58E-05	122
1945	1956	213	1771.631	0.015	213.8552	213.5	1.07E-05	2.71E-05	-5.64E-06	3914	9889	-2060	5975	5975	1.64E-05	1.64E-05	153
1945	1956	214	1771.65	0.014	214.8344	214.5	1.24E-05	2.94E-05	-4.52E-06	4532	10713	-1648	6181	6181	1.69E-05	1.69E-05	136
1945	1956	215	1771.672	0.016	215.8351	215.5	1.02E-05	2.60E-05	-5.64E-06	3708	9477	-2060	5769	5769	1.58E-05	1.58E-05	156
1945	1956	216	1771.69	0.012	216.8358	216.5	1.41E-05	2.71E-05	1.13E-06	5150	9889	412	4738	4738	1.30E-05	1.30E-05	92
1945	1956	217	1771.715	0.011	217.92	217.5	6.77E-06	1.98E-05	-6.21E-06	2472	7211	-2266	4738	4738	1.30E-05	1.30E-05	192
1945	1956	218	1771.727	0.012	218.8372	218.5	1.24E-05	2.65E-05	-1.69E-06	4532	9683	-618	5150	5150	1.41E-05	1.41E-05	114
1945	1956	219	1771.749	0.013	219.8379	219.5	1.47E-05	2.88E-05	5.64E-07	5356	10506	206	5150	5150	1.41E-05	1.41E-05	96
1945	1956	220	1771.775	0.012	220.8386	220.5	1.24E-05	2.71E-05	-2.26E-06	4532	9888	-824	5356	5356	1.47E-05	1.47E-05	118
1945	1956	221	1771.797	0.014	221.8392	221.5	1.07E-05	2.54E-05	-3.95E-06	3914	9270	-1442	5356	5356	1.47E-05	1.47E-05	137
1945	1956	222	1771.816	0.012	222.8399	222.5	8.47E-06	2.14E-05	-4.52E-06	3090	7828	-1648	4738	4738	1.30E-05	1.30E-05	153
1945	1956	223	1771.831	0.011	223.8406	223.5	9.03E-06	2.20E-05	-3.95E-06	3296	8034	-1442	4738	4738	1.30E-05	1.30E-05	144
1945	1956	224	1771.847	0.012	224.8413	224.5	1.02E-05	2.31E-05	-2.82E-06	3708	8446	-1030	4738	4738	1.30E-05	1.30E-05	128
1945	1956	225	1771.865	0.011	225.9255	225.5	1.07E-05	2.43E-05	-2.82E-06	3914	8858	-1030	4944	4944	1.35E-05	1.35E-05	126
1945	1956	226	1771.884	0.013	226.9262	226.5	1.69E-05	3.27E-05	1.13E-06	6180	11948	412	5768	5768	1.58E-05	1.58E-05	93
1945	1956	227	1771.914	0.015	227.9269	227.5	2.51E-05	3.39E-05	1.64E-05	9166	12359	5974	3193	3193	8.75E-06	8.75E-06	35
1945	1956	229	1772.003	0.016	229.8448	229.5	1.30E-05	2.88E-05	-2.82E-06	4738	10505	-1030	5767	5767	1.58E-05	1.58E-05	122
1945	1956	230	1772.026	0.012	230.8455	230.5	1.58E-05	2.99E-05	1.69E-06	5767	10917	618	5149	5149	1.41E-05	1.41E-05	89
1945	1956	231	1772.054	0.013	231.8462	231.5	1.98E-05	3.22E-05	7.34E-06	7209	11741	2678	4531	4531	1.24E-05	1.24E-05	63
1945	1956	232	1772.089	0.009	232.1811	232.5	1.19E-05	2.26E-05	1.13E-06	4325	8239	412	3913	3913	1.07E-05	1.07E-05	90
1945	1956	233	1772.11	0.01	233.1818	233.5	8.46E-06	2.09E-05	-3.95E-06	3090	7621	-1442	4531	4531	1.24E-05	1.24E-05	147
1945	1956	234	1772.125	0.012	234.8483	234.5	7.90E-06	2.14E-05	-5.64E-06	2884	7827	-2060	4943	4943	1.35E-05	1.35E-05	171
1945	1956	235	1772.139	0.012	235.849	235.5	8.46E-06	2.14E-05	-4.51E-06	3089	7827	-1648	4737	4737	1.30E-05	1.30E-05	153
1945	1956	236	1772.154	0.011	236.8497	236.5	9.03E-06	2.14E-05	-3.39E-06	3295	7827	-1236	4531	4531	1.24E-05	1.24E-05	138
1945	1956	237	1772.17	0.011	237.8504	237.5	8.40E-06	9.06E-06	7.75E-06	3068	3306	2829	238	238	6.53E-07	6.53E-07	8
1945	1956	256	1772.453	0.011	256.842	256.5	6.21E-06	1.92E-05	-6.77E-06	2265	7002	-2471	4736	4736	1.30E-05	1.30E-05	209
1945	1956	257	1772.464	0.012	257.8427	257.5	5.64E-06	1.86E-05	-7.33E-06	2059	6796	-2677	4736	4736	1.30E-05	1.30E-05	230
1945	1956	258	1772.474	0.011	258.8434	258.5	6.96E-06	7.52E-06	6.39E-06	2540	2745	2334	206	206	5.64E-07	5.64E-07	8
1945	1956	279	1772.733	0.01	279.8372	279.5	9.03E-06	2.03E-05	-2.26E-06	3294	7412	-824	4118	4118	1.13E-05	1.13E-05	125
1945	1956	280	1772.749	0.01	280.8379	280.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1945	1957	140	36350.05	0.012	140.9304	140.5	-3.11E-06	-2.45E-06	-3.77E-06	-1135	-894	-1376	241	241	6.60E-07	6.60E-07	-21
1945	1957	141	36349.94	0.012	141.9311	141.5	-3.01E-06	-2.85E-06	-3.18E-06	-1100	-1039	-1160	60	60	1.65E-07	1.65E-07	-5
1945	1957	145	36349.5	0.012	145.8504	145.5	-3.11E-06	-2.45E-06	-3.77E-06	-1135	-894	-1376	241	241	6.60E-07	6.60E-07	-21
1945	1957	146	36349.38	0.012	146.8511	146.5	-2.81E-06	-2.80E-06	-2.82E-06	-1025	-1020	-1029	4	4	1.23E-08	1.23E-08	0
1945	1957	202	36343.67	0.013	202.8476	202.5	1.38E-07	9.08E-07	-6.33E-07	50	331	-231	281	281	7.70E-07	7.70E-07	560
1945	1957	203	36343.67	0.015	203.8483	203.5	6.60E-07	1.43E-06	-1.10E-07	241	522	-40	281	281	7.70E-07	7.70E-07	117
1945	1957	204	36343.7	0.013	204.849	204.5	-5.64E-07	-1.93E-07	-9.36E-07	-206	-70	-341	136	136	3.71E-07	3.71E-07	-66
1945	1957	206	36343.66	0.014	206.8504	206.5	-1.82E-06	-1.05E-06	-2.59E-06	-663	-382	-944	281	281	7.70E-07	7.70E-07	-42
1945	1957	207	36343.59	0.014	207.8511	207.5	-1.73E-06	-9.91E-07	-2.48E-06	-633	-362	-904	271	271	7.43E-07	7.43E-07	-43
1945	1957	208	36343.53	0.013	208.8517	208.5	-1.43E-06	-7.15E-07	-2.15E-06	-522	-261	-783	261	261	7.15E-07	7.15E-07	-50
1945	1957	209	36343.48	0.013	209.8524	209.5	-1.87E-06	-1.16E-06	-2.59E-06	-683	-422	-944	261	261	7.15E-07	7.15E-07	-38
1945	1957	210	36343.41	0.013	210.8531	210.5	-2.06E-06	-1.40E-06	-2.72E-06	-753	-512	-994	241	241	6.60E-07	6.60E-07	-32
1945	1957	211	36343.33	0.011	211.8538	211.5	-1.54E-06	-9.08E-07	-2.17E-06	-562	-331	-793	231	231	6.33E-07	6.33E-07	-41
1945	1957	212	36343.28	0.012	212.8545	212.5	-1.76E-06	-1.05E-06	-2.48E-06	-643	-382	-904	261	261	7.15E-07	7.15E-07	-41
1945	1957	213	36343.21	0.014	213.8552	213.5	-1.68E-06	-9.08E-07	-2.45E-06	-613	-331	-894	281	281	7.70E-07	7.70E-07	-46
1945	1957	214	36343.15	0.014	214.8344	214.5	-1.73E-06	-8.80E-07	-2.59E-06	-633	-321	-944	311	311	8.53E-07	8.53E-07	-49
1945	1957	215	36343.09	0.017	215.8351	215.5	-2.04E-06	-1.24E-06	-2.83E-06	-743	-452	-1034	291	291	7.98E-07	7.98E-07	-39
1945	1957	216	36343.02	0.012	216.8358	216.5	-2.78E-06	-2.15E-06	-3.41E-06	-1014	-783	-1245	231	231	6.33E-07	6.33E-07	-23
1945	1957	217	36342.91	0.011	217.92	217.5	-3.49E-06	-2.89E-06	-4.10E-06	-1275	-1055	-1496	221	221	6.05E-07	6.05E-07	-17
1945	1957	218	36342.79	0.011	218.8372	218.5	-2.26E-06	-1.62E-06	-2.89E-06	-824	-593	-1055	231	231	6.33E-07	6.33E-07	-28
1945	1957	219	36342.71	0.012	219.8379	219.5	-3.19E-06	-2.53E-06	-3.85E-06	-1165	-924	-1406	241	241	6.60E-07	6.60E-07	-21
1945	1957	220	36342.59	0.012	220.8386	220.5	-1.29E-06	-5.78E-07	-2.01E-06	-472	-211	-733	261	261	7.15E-07	7.15E-07	-55
1945	1957	221	36342.54	0.014	221.8392	221.5	-2.81E-06	-2.09E-06	-3.52E-06	-1024	-763	-1286	261	261	7.15E-07	7.15E-07	-25
1945	1957	222	36342.44	0.012	222.8399	222.5	-3.30E-06	-2.64E-06	-3.96E-06	-1205	-964	-1446	241	241	6.60E-07	6.60E-07	-20
1945	1957	223	36342.32	0.012	223.8406	223.5	-2.86E-06	-2.17E-06	-3.55E-06	-1045	-793	-1296	251	251	6.88E-07	6.88E-07	-24
1945	1957	224	36342.22	0.013	224.8413	224.5	-3.80E-06	-3.14E-06	-4.46E-06	-1386	-1145	-1627	241	241	6.60E-07	6.60E-07	-17
1945	1957	225	36342.08	0.011	225.9255	225.5	-3.52E-06	-2.78E-06	-4.27E-06	-1286	-1014	-1557	271	271	7.43E-07	7.43E-07	-21
1945	1957	226	36341.95	0.016	226.9262	226.5	-4.27E-06	-3.36E-06	-5.17E-06	-1557	-1225	-1888	331	331	9.08E-07	9.08E-07	-21
1945	1957	227	36341.8	0.017	227.9269	227.5	-3.30E-07	1.51E-07	-8.12E-07	-121	55	-296	176	176	4.82E-07	4.82E-07	-146
1945	1957	229	36341.77	0.018	229.8448	229.5	-2.26E-06	-1.38E-06	-3.14E-06	-824	-502	-1145	321	321	8.81E-07	8.81E-07	-39
1945	1957	230	36341.69	0.014	230.8455	230.5	-2.50E-06	-1.73E-06	-3.27E-06	-914	-633	-1195	281	281	7.70E-07	7.70E-07	-31
1945	1957	231	36341.6	0.014	231.8462	231.5	-6.30E-06	-5.67E-06	-6.93E-06	-2300	-2069	-2531	231	231	6.33E-07	6.33E-07	-10
1945	1957	232	36341.37	0.009	232.1811	232.5	-2.61E-06	-2.06E-06	-3.16E-06	-954	-753	-1155	201	201	5.50E-07	5.50E-07	-21
1945	1957	233	36341.27	0.011	233.1818	233.5	-1.68E-06	-1.05E-06	-2.31E-06	-613	-382	-844	231	231	6.33E-07	6.33E-07	-38
1945	1957	234	36341.21	0.012	234.8483	234.5	-2.42E-06	-1.79E-06	-3.05E-06	-884	-653	-1115	231	231	6.33E-07	6.33E-07	-26
1945	1957	235	36341.13	0.011	235.849	235.5	-2.86E-06	-2.23E-06	-3.49E-06	-1045	-814	-1276	231	231	6.33E-07	6.33E-07	-22
1945	1957	236	36341.02	0.012	236.8497	236.5	-2.86E-06	-2.23E-06	-3.49E-06	-1045	-814	-1276	231	231	6.33E-07	6.33E-07	-22
1945	1957	237	36340.92	0.011	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####

1945	1962	140	59281.94	0.014	140.9304	140.5	-2.36E-06	-1.91E-06	-2.82E-06	-862	-696	-1028	166	166	4.55E-07	4.55E-07	-19
1945	1962	141	59281.8	0.013	141.9311	141.5	-2.29E-06	-2.18E-06	-2.40E-06	-836	-794	-877	42	42	1.14E-07	1.14E-07	-5
1945	1962	145	59281.26	0.014	145.8504	145.5	-2.41E-06	-1.94E-06	-2.88E-06	-880	-708	-1053	172	172	4.72E-07	4.72E-07	-20
1945	1962	146	59281.11	0.014	146.8511	146.5	-2.35E-06	-2.31E-06	-2.40E-06	-859	-844	-874	15	15	4.14E-08	4.14E-08	-2
1945	1962	157	59279.58	0.013	157.8372	157.5	-2.26E-06	-1.82E-06	-2.70E-06	-825	-665	-985	160	160	4.39E-07	4.39E-07	-19
1945	1962	158	59279.45	0.013	158.8379	158.5	-2.34E-06	-1.92E-06	-2.77E-06	-856	-702	-1010	154	154	4.22E-07	4.22E-07	-18
1945	1962	159	59279.31	0.012	159.8386	159.5	-2.29E-06	-1.89E-06	-2.70E-06	-837	-690	-985	148	148	4.05E-07	4.05E-07	-18
1945	1962	160	59279.17	0.012	160.8392	160.5	-2.36E-06	-1.97E-06	-2.75E-06	-862	-720	-1004	142	142	3.88E-07	3.88E-07	-16
1945	1962	161	59279.03	0.011	161.8399	161.5	-2.21E-06	-2.20E-06	-2.22E-06	-805	-801	-809	4	4	1.09E-08	1.09E-08	0
1945	1962	198	59274.19	0.013	198.8448	198.5	-2.04E-06	-1.60E-06	-2.48E-06	-745	-585	-905	160	160	4.39E-07	4.39E-07	-21
1945	1962	199	59274.07	0.013	199.8455	199.5	-1.59E-06	-1.10E-06	-2.08E-06	-579	-400	-757	179	179	4.89E-07	4.89E-07	-31
1945	1962	200	59273.98	0.016	200.8462	200.5	-1.03E-06	-5.23E-07	-1.54E-06	-376	-191	-560	185	185	5.06E-07	5.06E-07	-49
1945	1962	201	59273.91	0.014	201.8469	201.5	2.87E-07	7.93E-07	-2.19E-07	105	289	-80	185	185	5.06E-07	5.06E-07	176
1945	1962	202	59273.93	0.016	202.8476	202.5	-5.23E-07	2.22E-16	-1.05E-06	-191	0	-382	191	191	5.23E-07	5.23E-07	-100
1945	1962	203	59273.9	0.015	203.8483	203.5	1.18E-07	6.24E-07	-3.88E-07	43	228	-142	185	185	5.06E-07	5.06E-07	429
1945	1962	204	59273.91	0.015	204.849	204.5	-9.03E-07	-6.58E-07	-1.15E-06	-329	-240	-419	89	89	2.45E-07	2.45E-07	-27
1945	1962	206	59273.8	0.014	206.8504	206.5	-1.65E-06	-1.20E-06	-2.11E-06	-603	-437	-770	166	166	4.56E-07	4.56E-07	-28
1945	1962	207	59273.7	0.013	207.8511	207.5	-1.52E-06	-1.11E-06	-1.92E-06	-554	-406	-702	148	148	4.05E-07	4.05E-07	-27
1945	1962	208	59273.61	0.011	208.8517	208.5	-1.21E-06	-8.27E-07	-1.60E-06	-443	-302	-585	142	142	3.88E-07	3.88E-07	-32
1945	1962	209	59273.54	0.012	209.8524	209.5	-1.60E-06	-1.21E-06	-1.99E-06	-585	-443	-727	142	142	3.88E-07	3.88E-07	-24
1945	1962	210	59273.45	0.011	210.8531	210.5	-1.57E-06	-1.21E-06	-1.92E-06	-573	-443	-702	129	129	3.54E-07	3.54E-07	-23
1945	1962	211	59273.35	0.01	211.8538	211.5	-1.21E-06	-8.60E-07	-1.57E-06	-443	-314	-573	129	129	3.54E-07	3.54E-07	-29
1945	1962	212	59273.28	0.011	212.8545	212.5	-1.42E-06	-9.79E-07	-1.86E-06	-517	-357	-677	160	160	4.39E-07	4.39E-07	-31
1945	1962	213	59273.2	0.015	213.8552	213.5	-1.33E-06	-8.27E-07	-1.84E-06	-486	-302	-671	185	185	5.06E-07	5.06E-07	-38
1945	1962	214	59273.12	0.015	214.8344	214.5	-1.59E-06	-1.06E-06	-2.11E-06	-579	-388	-770	191	191	5.23E-07	5.23E-07	-33
1945	1962	215	59273.02	0.016	215.8351	215.5	-1.47E-06	-9.62E-07	-1.97E-06	-536	-351	-720	185	185	5.06E-07	5.06E-07	-34
1945	1962	216	59272.94	0.014	216.8358	216.5	-1.84E-06	-1.42E-06	-2.26E-06	-671	-517	-825	154	154	4.22E-07	4.22E-07	-23
1945	1962	217	59272.83	0.011	217.92	217.5	-1.75E-06	-1.38E-06	-2.13E-06	-640	-505	-776	135	135	3.71E-07	3.71E-07	-21
1945	1962	218	59272.72	0.011	218.8372	218.5	-1.87E-06	-1.50E-06	-2.24E-06	-684	-548	-819	135	135	3.71E-07	3.71E-07	-20
1945	1962	219	59272.61	0.011	219.8379	219.5	-2.09E-06	-1.70E-06	-2.48E-06	-764	-622	-905	142	142	3.88E-07	3.88E-07	-19
1945	1962	220	59272.49	0.012	220.8386	220.5	-1.15E-06	-6.92E-07	-1.60E-06	-419	-252	-585	166	166	4.56E-07	4.56E-07	-40
1945	1962	221	59272.42	0.015	221.8392	221.5	-1.37E-06	-9.28E-07	-1.81E-06	-499	-339	-659	160	160	4.39E-07	4.39E-07	-32
1945	1962	222	59272.34	0.011	222.8399	222.5	-2.60E-06	-2.23E-06	-2.97E-06	-948	-813	-1084	135	135	3.71E-07	3.71E-07	-14
1945	1962	223	59272.19	0.011	223.8406	223.5	-2.19E-06	-1.81E-06	-2.58E-06	-801	-659	-942	142	142	3.88E-07	3.88E-07	-18
1945	1962	224	59272.06	0.012	224.8413	224.5	-2.45E-06	-2.06E-06	-2.83E-06	-893	-751	-1035	142	142	3.88E-07	3.88E-07	-16
1945	1962	225	59271.91	0.011	225.9255	225.5	-1.52E-06	-1.11E-06	-1.92E-06	-554	-406	-702	148	148	4.05E-07	4.05E-07	-27
1945	1962	226	59271.82	0.013	226.9262	226.5	-1.77E-06	-1.25E-06	-2.29E-06	-647	-456	-837	191	191	5.23E-07	5.23E-07	-30
1945	1962	227	59271.72	0.018	227.9269	227.5	-3.04E-07	2.53E-08	-6.33E-07	-111	9	-231	120	120	3.29E-07	3.29E-07	-108
1945	1962	229	59271.68	0.021	229.8448	229.5	-1.18E-06	-5.40E-07	-1.82E-06	-431	-197	-665	234	234	6.41E-07	6.41E-07	-54
1945	1962	230	59271.61	0.017	230.8455	230.5	-1.82E-06	-1.32E-06	-2.33E-06	-665	-480	-850	185	185	5.06E-07	5.06E-07	-28
1945	1962	231	59271.5	0.013	231.8462	231.5	-2.90E-06	-2.50E-06	-3.31E-06	-1059	-911	-1207	148	148	4.05E-07	4.05E-07	-14
1945	1962	232	59271.33	0.011	232.1811	232.5	-2.09E-06	-1.67E-06	-2.51E-06	-764	-610	-918	154	154	4.22E-07	4.22E-07	-20
1945	1962	233	59271.21	0.014	233.1818	233.5	-1.18E-06	-7.42E-07	-1.62E-06	-431	-271	-591	160	160	4.39E-07	4.39E-07	-37
1945	1962	234	59271.14	0.012	234.8483	234.5	-2.29E-06	-1.87E-06	-2.72E-06	-838	-684	-991	154	154	4.22E-07	4.22E-07	-18
1945	1962	235	59271	0.013	235.849	235.5	-2.19E-06	-1.77E-06	-2.62E-06	-801	-647	-955	154	154	4.22E-07	4.22E-07	-19
1945	1962	236	59270.87	0.012	236.8497	236.5	-2.36E-06	-1.97E-06	-2.75E-06	-862	-721	-1004	142	142	3.88E-07	3.88E-07	-16
1945	1962	237	59270.73	0.011	237.8504	237.5	-2.50E-06	-2.49E-06	-2.51E-06	-912	-909	-916	3	3	9.42E-09	9.42E-09	0
1945	1962	280	59264.36	0.013	280.8379	280.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1945	7238	126	1425.995	0.012	126.8372	126.5	4.91E-06	2.10E-05	-1.12E-05	1792	7679	-4095	5887	5887	1.61E-05	1.61E-05	329
1945	7238	127	1426.002	0.011	127.8379	127.5	4.59E-06	5.77E-06	3.40E-06	1674	2107	1240	433	433	1.19E-06	1.19E-06	26
1945	7238	140	1426.087	0.011	140.9304	140.5	2.80E-06	1.89E-05	-1.33E-05	1024	6911	-4863	5887	5887	1.61E-05	1.61E-05	575
1945	7238	141	1426.091	0.012	141.9311	141.5	4.51E-06	5.43E-06	3.59E-06	1648	1983	1312	336	336	9.20E-07	9.20E-07	20
1945	7238	157	1426.194	0.009	157.8372	157.5	4.91E-06	1.82E-05	-8.41E-06	1791	6654	-3071	4863	4863	1.33E-05	1.33E-05	271
1945	7238	158	1426.201	0.01	158.8379	158.5	3.51E-06	1.68E-05	-9.82E-06	1280	6142	-3583	4863	4863	1.33E-05	1.33E-05	380
1945	7238	159	1426.206	0.009	159.8386	159.5	4.21E-06	1.68E-05	-8.41E-06	1536	6142	-3071	4607	4607	1.26E-05	1.26E-05	300
1945	7238	160	1426.212	0.009	160.8392	160.5	4.21E-06	1.68E-05	-8.41E-06	1536	6142	-3071	4607	4607	1.26E-05	1.26E-05	300
1945	7238	161	1426.218	0.009	161.8399	161.5	5.23E-06	5.57E-06	4.89E-06	1909	2033	1784	124	124	3.41E-07	3.41E-07	7
1945	7238	198	1426.494	0.009	198.8448	198.5	7.71E-06	2.03E-05	-4.91E-06	2815	7420	-1791	4606	4606	1.26E-05	1.26E-05	164
1945	7238	199	1426.505	0.009	199.8455	199.5	4.21E-06	1.89E-05	-1.05E-05	1535	6908	-3838	5373	5373	1.47E-05	1.47E-05	350
1945	7238	200	1426.511	0.012	200.8462	200.5	1.33E-05	3.08E-05	-4.21E-06	4861	11258	-1535	6397	6397	1.75E-05	1.75E-05	132
1945	7238	201	1426.53	0.013	201.8469	201.5	1.89E-05	3.65E-05	1.40E-06	6908	13305	512	6397	6397	1.75E-05	1.75E-05	93
1945	7238	202	1426.557	0.012	202.8476	202.5	5.61E-06	2.17E-05	-1.05E-05	2047	7932	-3838	5885	5885	1.61E-05	1.61E-05	288
1945	7238	203	1426.565	0.011	203.8483	203.5	7.71E-06	2.38E-05	-8.41E-06	2814	8699	-3070	5885	5885	1.61E-05	1.61E-05	209
1945	7238	204	1426.576	0.012	204.849	204.5	2.10E-06	1.09E-05	-6.66E-06	768	3966	-2431	3198	3198	8.76E-06	8.76E-06	417
1945	7238	206	1426.582	0.013	206.8504	206.5	2.10E-06	2.03E-05	-1.61E-05	768	7420	-5885	6652	6652	1.82E-05	1.82E-05	867
1945	7238	207	1426.585	0.013	207.8511	207.5	1.40E-05	3.15E-05	-3.50E-06	5117	11513	-1279	6396	6396	1.75E-05	1.75E-05	125
1945	7238	208	1426.605	0.012	208.8517	208.5	1.26E-05	2.87E-05	-3.50E-06	4605	10490	-1279	5885	5885	1.61E-05	1.61E-05	128
1945	7238	209	1426.623	0.011	209.8524	209.5	9.11E-06	2.45E-05	-6.31E-06	3326	8955	-2303	5629	5629	1.54E-05	1.54E-05	169
1945	7238	210	1426.636	0.011	210.8531	210.5	9.11E-06	2.45E-05	-6.31E-06	3326	8955	-2303	5629	5629	1.54E-05	1.54E-05	169
1945	7238	211	1426.649	0.011	211.8538	211.5	4.91E-06	2.03E-05	-1.05E-05	1791	7419	-3838	5629	5629	1.54E-05	1.54E-05	314
1945	7238	212	1426.656	0.011	212.8545	212.5	1.54E-05	3.29E-05	-2.10E-06	5629	12025	-768	6396	6396	1.75E-05	1.75E-05	114
1945	7238	213	1426.678	0.014	213.8552	213.5	1.26E-05	3.15E-05	-6.31E-06	4605	11513	-2303	6908	6908	1.89E-05	1.89E-05	150
1945	7238	214	1426.696	0.013	214.8344	214.5	1.33E-05	3.29E-05	-6.31E-06	4861	12024	-2303	7163	7163	1.96E-05	1.96E-05	147
1945	7238	215	1426.715	0.015	215.8351	215.5	4.91E-06	2.31E-05	-1.33E-05	1791	8442	-4861	6652	6652	1.82E-05	1.82E-05	371
1945	7238	216	1426.722	0.011	216.8358	216.5	1.05E-05	2.59E-05	-4.91E-06	3837	9466	-1791	5628	5628	1.54E-05	1.54E-05	147
1945	7238	217	1426.737	0.011	217.92	217.5	1.12E-05	2.66E-05	-4.21E-06	4093	9721	-1535	5628	5628	1.54E-05	1.54E-05	138
1945	7238	218	1426.753	0.011	218.8372	218.5	2.10E-05	3.71E-05	4.91E-06	7675	13559	1791	5884	5884	1.61E-05	1.61E-05	77
1945	7238	219	1426.783	0.012	219.8379	219.5	1.26E-05	2.87E-05	-3.50E-06	4605	10489	-1279	5884	5884	1.61E-05	1.61E-05	128
1945	7238	220	1426.801	0.011	220.8386	220.5	1.40E-06	1.89E-05	-1.61E-05	512	6907	-5884	6395	6395	1.75E-05	1.75E-05	1250
1945	7238	221	1426.803	0.014	221.8392	221.5	1.40E-05	3.15E-05	-3.50E-06	5116	11512	-1279	6395	6395	1.75E-05	1.75E-05	125
1945	7238	222	1426.823	0.011	222.8399	222.5	1.12E-05	2.59E-05	-3.50E-06	4093	9465	-1279	5372	5372	1.47E-05	1.47E-05	131
1945	7238	223	1426.839	0.01	223.8406	223.5	1.61E-05	3.01E-05	2.10E-06	5884	11000	767	5116	5116	1.40E-05	1.40E-05	87
1945	7238	224	1426.862	0.01	224.8413	224.5	1.33E-05	2.80E-05	-1.40E-06	4860	10232	-512	5372	5372	1.47E-05	1.47E-05	111
1945	7238	225	1426.881	0.011	225.9255	225.5	2.94E-05	4.70E-05	1.19E-05	10744	17139	4349	6395	6395	1.75E-05	1.75E-05	60
1945	7238	226	1426.923	0.014	226.9262	226.5	1.61E-05	3.64E-05	-4.20E-06	5883	13301	-1535	7418	7418	2.03E-05	2.03E-05	126
1945	7238	227	1426.946	0.015	227.9269	227.5	1.68E-05	2.80E-05	5.61E-06	6139	10231	2046	4093	4093	1.12E-05	1.12E-05	67
1945	7238	229	1426.994	0.017	229.8448	229.5	1.05E-05	3.08E-05	-9.81E-06	3837	11254	-3581	7418	7418	2.03E-05	2.03E-05	193
1945	7238	230	1427.009	0.012	230.8455	230.5	1.19E-05	2.94E-05	-5.61E-06	4348	10743	-2046	6394	6394	1.75E-05	1.75E-05	147
1945	7238	231	1427.026	0.013	231.8462	231.5	1.47E-05	3.08E-05	-1.40E-06	5371	11254	-512	5883	5883	1.61E-05	1.61E-05	110
1945	7238	232	1427.047	0.01	232.1811	232.5	1.19E-05	2.66E-05	-2.80E-06	4348	9719	-1023	5371	5371	1.47E-05	1.47E-05	124
1945	7238	233	1427.064	0.011	233.1818	233.5	9.11E-06	2.52E-05	-7.01E-06	3325	9208	-2558	5883	5883	1.61E-05	1.61E-05	177
1945	7238	234	1427.077	0.012	234.8483	234.5	7.01E-06	2.31E-05	-9.11E-06	2558	8440	-3325	5883	5883	1.61E-05	1.61E-05	230
1945	7238	235	1427.087	0.011	235.849	235.5	1.12E-05	2.59E-05	-3.50E-06	4092	9463	-1279	5371	5371	1.47E-05	1.47E-05	131
1945	7238	236	1427.103	0.01	236.8497	236.5	9.11E-06	2.31E-05	-4.91E-06	3325	8440	-1790	5115	5115	1.40E-05	1.40E-05	154
1945	7238	237	1427.116	0.01	237.8504	237.5	5.97E-06	6.75E-06	5.20E-06	2181	2463	1898	283	283	7.74E-07	7.74E-07	13
1945	7238	256	1427.278	0.011	256.842	256.5	5.61E-06	2.17E-05	-1.05E-05	2046	7928	-3836	5882	5882	1.61E-05	1.61E-05	287
1945	7238	257	1427.286	0.012	257.8427	257.5	2.10E-06	1.75E-05	-1.33E-05	767	6393	-4859	5626	5626	1.54E-05	1.54E-05	733
1945	7238	258	1427.289	0.01	258.8434	258.5	5.00E-06	5.67E-06	4.34E-06	1827	2070	1583	244	244	6.67E-07	6.67E-07	13
1945	7238	279	1427.439	0.01	279.8372	279.5	6.30E-06	2.03E-05	-7.71E-06	2301	7415	-2813	5114	5114	1.40E-05	1.40E-05	222
1945	7238	280	1427.448	0.01	280.8379	280.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####

1945	7244	140	34974.66	0.013	140.9304	140.5	-3.23E-06	-2.52E-06	-3.95E-06	-1179	-918	-1440	261	261	7.15E-07	7.15E-07	-22
1945	7244	141	34974.55	0.012	141.9311	141.5	-3.14E-06	-2.97E-06	-3.31E-06	-1145	-1083	-1208	63	63	1.72E-07	1.72E-07	-5
1945	7244	145	34974.11	0.012	145.8504	145.5	-3.26E-06	-2.52E-06	-4.00E-06	-1190	-918	-1461	271	271	7.43E-07	7.43E-07	-23
1945	7244	146	34974	0.014	146.8511	146.5	-3.03E-06	-3.02E-06	-3.05E-06	-1108	-1102	-1113	5	5	1.43E-08	1.43E-08	0
1945	7244	200	34968.27	0.013	200.8462	200.5	-8.29E-07	-8.58E-08	-1.57E-06	-303	-31	-574	271	271	7.44E-07	7.44E-07	-90
1945	7244	201	34968.24	0.013	201.8469	201.5	1.23E-06	1.97E-06	4.86E-07	449	720	177	271	271	7.44E-07	7.44E-07	60
1945	7244	202	34968.28	0.013	202.8476	202.5	2.29E-07	1.03E-06	-5.72E-07	84	376	-209	292	292	8.01E-07	8.01E-07	350
1945	7244	203	34968.29	0.015	203.8483	203.5	5.15E-07	1.32E-06	-2.86E-07	188	480	-104	292	292	8.01E-07	8.01E-07	156
1945	7244	204	34968.31	0.013	204.849	204.5	-5.29E-07	-1.43E-07	-9.15E-07	-193	-52	-334	141	141	3.86E-07	3.86E-07	-73
1945	7244	206	34968.27	0.014	206.8504	206.5	-1.94E-06	-1.14E-06	-2.75E-06	-710	-418	-1002	292	292	8.01E-07	8.01E-07	-41
1945	7244	207	34968.2	0.014	207.8511	207.5	-1.69E-06	-9.44E-07	-2.43E-06	-616	-344	-887	271	271	7.44E-07	7.44E-07	-44
1945	7244	208	34968.14	0.012	208.8517	208.5	-1.66E-06	-9.72E-07	-2.34E-06	-605	-355	-856	251	251	6.86E-07	6.86E-07	-41
1945	7244	209	34968.08	0.012	209.8524	209.5	-1.80E-06	-1.14E-06	-2.46E-06	-658	-418	-898	240	240	6.58E-07	6.58E-07	-37
1945	7244	210	34968.02	0.011	210.8531	210.5	-2.35E-06	-1.72E-06	-2.97E-06	-856	-626	-1086	230	230	6.29E-07	6.29E-07	-27
1945	7244	211	34967.94	0.011	211.8538	211.5	-1.69E-06	-1.03E-06	-2.35E-06	-616	-376	-856	240	240	6.58E-07	6.58E-07	-39
1945	7244	212	34967.88	0.012	212.8545	212.5	-1.80E-06	-1.09E-06	-2.52E-06	-658	-397	-919	261	261	7.15E-07	7.15E-07	-40
1945	7244	213	34967.82	0.013	213.8552	213.5	-1.77E-06	-1.03E-06	-2.52E-06	-647	-376	-919	271	271	7.44E-07	7.44E-07	-42
1945	7244	214	34967.75	0.013	214.8344	214.5	-1.94E-06	-1.09E-06	-2.80E-06	-710	-397	-1023	313	313	8.58E-07	8.58E-07	-44
1945	7244	215	34967.69	0.017	215.8351	215.5	-2.26E-06	-1.46E-06	-3.06E-06	-825	-532	-1117	292	292	8.01E-07	8.01E-07	-35
1945	7244	216	34967.61	0.011	216.8358	216.5	-3.03E-06	-2.40E-06	-3.66E-06	-1106	-877	-1336	230	230	6.29E-07	6.29E-07	-21
1945	7244	217	34967.5	0.011	217.92	217.5	-3.57E-06	-2.95E-06	-4.20E-06	-1305	-1075	-1534	230	230	6.29E-07	6.29E-07	-18
1945	7244	218	34967.38	0.011	218.8372	218.5	-2.52E-06	-1.86E-06	-3.17E-06	-919	-678	-1159	240	240	6.58E-07	6.58E-07	-26
1945	7244	219	34967.29	0.012	219.8379	219.5	-3.40E-06	-2.75E-06	-4.06E-06	-1242	-1002	-1482	240	240	6.58E-07	6.58E-07	-19
1945	7244	220	34967.17	0.011	220.8386	220.5	-1.49E-06	-7.72E-07	-2.20E-06	-543	-282	-804	261	261	7.15E-07	7.15E-07	-48
1945	7244	221	34967.12	0.014	221.8392	221.5	-3.00E-06	-2.29E-06	-3.72E-06	-1096	-835	-1357	261	261	7.15E-07	7.15E-07	-24
1945	7244	222	34967.01	0.011	222.8399	222.5	-3.40E-06	-2.77E-06	-4.03E-06	-1242	-1013	-1472	230	230	6.29E-07	6.29E-07	-18
1945	7244	223	34966.89	0.011	223.8406	223.5	-3.03E-06	-2.40E-06	-3.66E-06	-1106	-877	-1336	230	230	6.29E-07	6.29E-07	-21
1945	7244	224	34966.79	0.011	224.8413	224.5	-4.06E-06	-3.43E-06	-4.69E-06	-1482	-1253	-1712	230	230	6.29E-07	6.29E-07	-15
1945	7244	225	34966.65	0.011	225.9255	225.5	-3.40E-06	-2.66E-06	-4.15E-06	-1242	-971	-1514	271	271	7.44E-07	7.44E-07	-22
1945	7244	226	34966.53	0.015	226.9262	226.5	-4.92E-06	-4.03E-06	-5.81E-06	-1795	-1472	-2119	324	324	8.87E-07	8.87E-07	-18
1945	7244	227	34966.35	0.016	227.9269	227.5	-5.43E-07	-8.58E-08	-1.00E-06	-198	-31	-365	167	167	4.58E-07	4.58E-07	-84
1945	7244	229	34966.32	0.016	229.8448	229.5	-2.40E-06	-1.60E-06	-3.20E-06	-877	-585	-1169	292	292	8.01E-07	8.01E-07	-33
1945	7244	230	34966.23	0.012	230.8455	230.5	-2.75E-06	-2.06E-06	-3.43E-06	-1002	-752	-1253	251	251	6.86E-07	6.86E-07	-25
1945	7244	231	34966.14	0.012	231.8462	231.5	-6.55E-06	-5.92E-06	-7.18E-06	-2390	-2161	-2620	230	230	6.29E-07	6.29E-07	-10
1945	7244	232	34965.91	0.01	232.1811	232.5	-3.06E-06	-2.49E-06	-3.63E-06	-1117	-908	-1326	209	209	5.72E-07	5.72E-07	-19
1945	7244	233	34965.8	0.01	233.1818	233.5	-1.80E-06	-1.20E-06	-2.40E-06	-658	-438	-877	219	219	6.01E-07	6.01E-07	-33
1945	7244	234	34965.74	0.011	234.8483	234.5	-2.49E-06	-1.86E-06	-3.12E-06	-908	-679	-1138	230	230	6.29E-07	6.29E-07	-25
1945	7244	235	34965.65	0.011	235.849	235.5	-3.00E-06	-2.37E-06	-3.63E-06	-1096	-866	-1326	230	230	6.29E-07	6.29E-07	-21
1945	7244	236	34965.55	0.011	236.8497	236.5	-3.00E-06	-2.40E-06	-3.60E-06	-1096	-877	-1315	219	219	6.01E-07	6.01E-07	-20
1945	7244	237	34965.44	0.01	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1948	1950	140	21686.76	0.011	140.9304	140.5	5.16E-06	6.22E-06	4.10E-06	1885	2272	1498	387	387	1.06E-06	1.06E-06	21
1948	1950	141	21686.87	0.012	141.9311	141.5	5.29E-06	5.35E-06	5.23E-06	1932	1954	1910	22	22	6.05E-08	6.05E-08	1
1948	1950	157	21688.71	0.009	157.8372	157.5	5.46E-06	5.48E-06	5.43E-06	1991	1999	1983	8	8	2.25E-08	2.25E-08	0
1948	1950	202	21694.03	0.013	202.8476	202.5	6.87E-06	8.16E-06	5.58E-06	2507	2978	2036	471	471	1.29E-06	1.29E-06	19
1948	1950	203	21694.18	0.015	203.8483	203.5	7.42E-06	8.76E-06	6.08E-06	2709	3197	2221	488	488	1.34E-06	1.34E-06	18
1948	1950	204	21694.34	0.014	204.849	204.5	8.44E-06	8.99E-06	7.88E-06	3079	3281	2877	202	202	5.53E-07	5.53E-07	7
1948	1950	206	21694.71	0.01	206.8504	206.5	9.03E-06	1.00E-05	8.07E-06	3298	3651	2944	353	353	9.68E-07	9.68E-07	11
1948	1950	207	21694.91	0.011	207.8511	207.5	9.96E-06	1.11E-05	8.80E-06	3634	4055	3213	421	421	1.15E-06	1.15E-06	12
1948	1950	208	21695.12	0.014	208.8517	208.5	7.19E-06	8.44E-06	5.95E-06	2625	3079	2170	454	454	1.24E-06	1.24E-06	17
1948	1950	209	21695.28	0.013	209.8524	209.5	8.57E-06	9.63E-06	7.51E-06	3129	3516	2742	387	387	1.06E-06	1.06E-06	12
1948	1950	210	21695.46	0.01	210.8531	210.5	1.03E-05	1.13E-05	9.31E-06	3769	4139	3398	370	370	1.01E-06	1.01E-06	10
1948	1950	211	21695.69	0.012	211.8538	211.5	8.71E-06	9.77E-06	7.65E-06	3180	3567	2793	387	387	1.06E-06	1.06E-06	12
1948	1950	212	21695.88	0.011	212.8545	212.5	8.11E-06	9.17E-06	7.05E-06	2961	3348	2574	387	387	1.06E-06	1.06E-06	13
1948	1950	213	21696.05	0.012	213.8552	213.5	5.72E-06	6.82E-06	4.61E-06	2086	2490	1682	404	404	1.11E-06	1.11E-06	19
1948	1950	214	21696.18	0.012	214.8344	214.5	7.42E-06	8.67E-06	6.18E-06	2709	3163	2254	454	454	1.24E-06	1.24E-06	17
1948	1950	215	21696.34	0.015	215.8351	215.5	6.18E-06	7.37E-06	4.98E-06	2254	2692	1817	437	437	1.20E-06	1.20E-06	19
1948	1950	216	21696.47	0.011	216.8358	216.5	1.13E-05	1.24E-05	1.02E-05	4122	4509	3735	387	387	1.06E-06	1.06E-06	9
1948	1950	217	21696.72	0.012	217.92	217.5	4.56E-06	5.58E-06	3.55E-06	1665	2036	1295	370	370	1.01E-06	1.01E-06	22
1948	1950	218	21696.82	0.01	218.8372	218.5	1.02E-04	1.03E-04	1.01E-04	37361	37748	36975	387	387	1.06E-06	1.06E-06	1
1948	1950	219	21699.04	0.013	219.8379	219.5	1.18E-05	1.29E-05	1.06E-05	4289	4710	3869	421	421	1.15E-06	1.15E-06	10
1948	1950	220	21699.29	0.012	220.8386	220.5	1.48E-05	1.59E-05	1.37E-05	5399	5803	4996	404	404	1.11E-06	1.11E-06	7
1948	1950	221	21699.61	0.012	221.8392	221.5	1.20E-05	1.33E-05	1.07E-05	4390	4861	3919	471	471	1.29E-06	1.29E-06	11
1948	1950	222	21699.87	0.016	222.8399	222.5	1.13E-05	1.19E-05	1.07E-05	4121	4340	3902	219	219	5.99E-07	5.99E-07	5
1948	1950	224	21700.36	0.01	224.8413	224.5	1.12E-05	1.24E-05	9.86E-06	4070	4541	3599	471	471	1.29E-06	1.29E-06	12
1948	1950	225	21700.61	0.018	225.9255	225.5	6.64E-06	8.20E-06	5.07E-06	2422	2994	1850	572	572	1.57E-06	1.57E-06	24
1948	1950	226	21700.75	0.016	226.9262	226.5	8.20E-06	9.95E-06	6.45E-06	2994	3633	2355	639	639	1.75E-06	1.75E-06	21
1948	1950	227	21700.93	0.022	227.9269	227.5	1.08E-05	1.12E-05	1.03E-05	3927	4095	3759	168	168	4.61E-07	4.61E-07	4
1948	1950	231	21701.86	0.018	231.8462	231.5	6.36E-06	7.97E-06	4.75E-06	2321	2910	1732	589	589	1.61E-06	1.61E-06	25
1948	1950	232	21702	0.017	232.1811	232.5	6.59E-06	8.06E-06	5.11E-06	2405	2943	1867	538	538	1.47E-06	1.47E-06	22
1948	1950	233	21702.14	0.015	233.1818	233.5	4.75E-06	6.17E-06	3.32E-06	1732	2254	1211	521	521	1.43E-06	1.43E-06	30
1948	1950	234	21702.25	0.016	234.8483	234.5	6.73E-06	8.20E-06	5.25E-06	2455	2994	1917	538	538	1.47E-06	1.47E-06	22
1948	1950	235	21702.39	0.016	235.849	235.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1948	1951	140	18871.54	0.01	140.9304	140.5	-6.62E-06	-5.46E-06	-7.79E-06	-2418	-1992	-2843	426	426	1.17E-06	1.17E-06	-18
1948	1951	141	18871.41	0.012	141.9311	141.5	-6.96E-06	-6.88E-06	-7.03E-06	-2539	-2512	-2565	27	27	7.29E-08	7.29E-08	-1
1948	1951	157	18869.31	0.01	157.8372	157.5	-6.57E-06	-5.46E-06	-7.68E-06	-2399	-1992	-2805	406	406	1.11E-06	1.11E-06	-17
1948	1951	158	18869.19	0.011	158.8379	158.5	-7.05E-06	-5.94E-06	-8.16E-06	-2573	-2167	-2979	406	406	1.11E-06	1.11E-06	-16
1948	1951	159	18869.05	0.01	159.8386	159.5	-6.89E-06	-5.83E-06	-7.95E-06	-2515	-2128	-2902	387	387	1.06E-06	1.06E-06	-15
1948	1951	160	18868.92	0.01	160.8392	160.5	-7.05E-06	-5.94E-06	-8.16E-06	-2573	-2167	-2979	406	406	1.11E-06	1.11E-06	-16
1948	1951	161	18868.79	0.011	161.8399	161.5	-6.48E-06	-6.44E-06	-6.51E-06	-2363	-2351	-2375	12	12	3.29E-08	3.29E-08	-1
1948	1951	198	18864.27	0.012	198.8448	198.5	-5.78E-06	-4.45E-06	-7.10E-06	-2109	-1625	-2593	484	484	1.33E-06	1.33E-06	-23
1948	1951	199	18864.16	0.013	199.8455	199.5	-4.61E-06	-3.18E-06	-6.04E-06	-1683	-1161	-2206	522	522	1.43E-06	1.43E-06	-31
1948	1951	200	18864.07	0.014	200.8462	200.5	-4.93E-06	-3.50E-06	-6.36E-06	-1799	-1277	-2322	522	522	1.43E-06	1.43E-06	-29
1948	1951	201	18863.98	0.013	201.8469	201.5	6.36E-07	2.07E-06	-7.95E-07	232	755	-290	522	522	1.43E-06	1.43E-06	225
1948	1951	202	18863.99	0.014	202.8476	202.5	-3.76E-06	-2.28E-06	-5.25E-06	-1374	-832	-1916	542	542	1.48E-06	1.48E-06	-39
1948	1951	203	18863.92	0.014	203.8483	203.5	-2.12E-06	-5.83E-07	-3.66E-06	-774	-213	-1335	561	561	1.54E-06	1.54E-06	-73
1948	1951	204	18863.88	0.015	204.849	204.5	-6.26E-06	-5.54E-06	-6.97E-06	-2283	-2022	-2544	261	261	7.16E-07	7.16E-07	-11
1948	1951	206	18863.65	0.012	206.8504	206.5	-8.06E-06	-6.79E-06	-9.33E-06	-2941	-2477	-3406	464	464	1.27E-06	1.27E-06	-16
1948	1951	207	18863.49	0.012	207.8511	207.5	-8.85E-06	-7.47E-06	-1.02E-05	-3231	-2728	-3734	503	503	1.38E-06	1.38E-06	-16
1948	1951	208	18863.33	0.014	208.8517	208.5	-6.79E-06	-5.35E-06	-8.22E-06	-2477	-1954	-2999	522	522	1.43E-06	1.43E-06	-21
1948	1951	209	18863.2	0.013	209.8524	209.5	-7.37E-06	-6.10E-06	-8.64E-06	-2690	-2225	-3154	464	464	1.27E-06	1.27E-06	-17
1948	1951	210	18863.06	0.011	210.8531	210.5	-9.75E-06	-8.43E-06	-1.11E-05	-3560	-3077	-4044	484	484	1.33E-06	1.33E-06	-14
1948	1951	211	18862.88	0.014	211.8538	211.5	-6.15E-06	-4.82E-06	-7.48E-06	-2245	-1761	-2728	484	484	1.33E-06	1.33E-06	-22
1948	1951	212	18862.76	0.011	212.8545	212.5	-7.69E-06	-6.47E-06	-8.91E-06	-2806	-2361	-3251	445	445	1.22E-06	1.22E-06	-16
1948	1951	213	18862.62	0.012	213.8552	213.5	-6.63E-06	-5.35E-06	-7.90E-06	-2419	-1954	-2883	464	464	1.27E-06	1.27E-06	-19
1948	1951	214	18862.49	0.012	214.8344	214.5	-8.32E-06	-6.89E-06	-9.75E-06	-3038	-2516	-3561	522	522	1.43E-06	1.43E-06	-17
1948	1951	215	18862.33	0.015	215.8351	215.5	-2.65E-06	-1.17E-06	-4.14E-06	-968	-426	-1509	542	542	1.48E-06	1.48E-06	-56
1948	1951	216	18862.28	0.013	216.8358	216.5	-1.29E-05	-1.15E-05	-1.43E-05	-4702	-4180	-5225	522	522	1.43E-06	1.43E-06	-11
1948	1951	217	18862.04	0.014	217.92	217.5	-6.10E-06	-4.82E-06	-7.37E-06	-2225	-1761	-2690	464	464	1.27E-06	1.27E-06	-21
1948	1951	218	18861.93	0.01	218.8372	218.5	-1.07E-04	-1.06E-04	-1.08E-04	-39072	-38627	-39517	445	445	1.22E-06	1.22E-06	-1
1948	1951	219	18859.91	0.013	219.8379	219.5	-1.48E-05	-1.35E-05	-1.62E-05	-5419	-4916	-5922	503	503	1.38E-06	1.38E-06	-9
1948	1951	220	18859.63	0.013	220.8386	220.5	-1.21E-05	-1.07E-05	-1.36E-05	-4432	-3909	-4955	523	523	1.43E-06	1.43E-06	-12
1948	1951	221	18859.4	0.014	221.8392	221.5	-1.23E-05	-1.07E-05	-1.39E-05	-4490	-3909	-5071	581	581	1.59E-06	1.59E-06	-13
1948	1951	222	18859.17	0.016	222.8399	222.5	-1.06E-05	-9.89E-06	-1.13E-05	-3871	-3610	-4132	261	261	7.16E-07	7.16E-07	-7
1948	1951	224	18858.77	0.011	224.8413	224.5	-1.22E-05	-1.08E-05	-1.36E-05	-4452	-3929	-4974	523	523	1.43E-06	1.43E-06	-12
1948	1951	225	18858.54	0.016	225.9255	225.5	-8.43E-06	-6.73E-06	-1.01E-05	-3077	-2458	-3697	619	619	1.70E-06	1.70E-06	-20
1948	1951	226	18858.38	0.016	226.9262	226.5	-1.23E-05	-1.05E-05	-1.41E-05	-4490	-3832	-5148	658	658	1.80E-06	1.80E-06	-15
1948	1951	227	18858.14	0.018	227.9269	227.5	-7.00E-06	-6.54E-06	-7.46E-06	-2555	-2386	-2724	169	169	4.64E-07	4.64E-07	-7
1948	1951	231	18857.62	0.017	231.8462	231.5	-1.06E-05	-8.75E-06	-1.25E-05	-3871	-3194	-4549	677	677	1.86E-06	1.86E-06	-18
1948	1951	232	18857.42	0.018	232.1811	232.5	-6.73E-06	-4.93E-06	-8.54E-06	-2458	-1800	-3116	658	658	1.80E-06	1.80E-06	-27
1948	1951	233	18857.29	0.016	233.1818	233.5	-3.92E-06	-2.28E-06	-5.57E-06	-1432	-832	-2032	600	600	1.64E-06	1.64E-06	-42
1948	1951	234	18857.22	0.015	234.8483	234.5	-6.20E-06	-4.56E-06	-7.85E-06	-2265	-1665	-2865	600	600	1.64E-06	1.64E-06	-26
1948	1951	235	18857.1	0.016	235.849	235.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1948	1956	140	17923.5	0.011	140.9304	140.5	-6.19E-06	-4.97E-06	-7.42E-06	-2260	-1812	-2708	448	448	1.23E-06	1.23E-06	-20
1948	1956	141	17923.39	0.011	141.9311	141.5	-6.43E-06	-6.36E-06	-6.50E-06	-2347	-2322	-2373	25	25	6.97E-08	6.97E-08	-1
1948	1956	157	17921.54	0.009	157.8372	157.5	-6.14E-06	-5.08E-06	-7.20E-06	-2240	-1853	-2627	387	387	1.06E-06	1.06E-06	-17
1948	1956	158	17921.43	0.01	158.8379	158.5	-6.25E-06	-5.13E-06	-7.37E-06	-2281	-1874	-2688	407	407	1.12E-06	1.12E-06	-18
1948	1956	159	17921.32	0.01	159.8386	159.5	-6.53E-06	-5.47E-06	-7.59E-06	-2383	-1996	-2770	387	387	1.06E-06	1.06E-06	-16
1948	1956	160	17921.2	0.009	160.8392	160.5	-6.53E-06	-5.47E-06	-7.59E-06	-2383	-1996	-2770	387	387	1.06E-06	1.06E-06	-16
1948	1956	161	17921.09	0.01	161.8399	161.5	-5.93E-06	-5.90E-06	-5.97E-06	-2166	-2154	-2178	12	12	3.32E-08	3.32E-08	-1
1948	1956	198	17917.15	0.012	198.8448	198.5	-5.19E-06	-3.80E-06	-6.59E-06	-1895	-1385	-2404	509	509	1.40E-06	1.40E-06	-27
1948	1956	199	17917.06	0.013	199.8455	199.5	-4.13E-06	-2.62E-06	-5.64E-06	-1508	-957	-2058	550	550	1.51E-06	1.51E-06	-36
1948	1956	200	17916.98	0.014	200.8462	200.5	-3.91E-06	-2.40E-06	-5.41E-06	-1426	-876	-1976	550	550	1.51E-06	1.51E-06	-39
1948	1956	201	17916.91	0.013	201.8469	201.5	3.01E-06	4.47E-06	1.56E-06	1100	1630	570	530	530	1.45E-06	1.45E-06	48
1948	1956	202	17916.97	0.013	202.8476	202.5	-2.18E-06	-6.70E-07	-3.68E-06	-794	-244	-1345	550	550	1.51E-06	1.51E-06	-69
1948	1956	203	17916.93	0.014	203.8483	203.5	-6.70E-07	8.93E-07	-2.23E-06	-244	326	-815	570	570	1.56E-06	1.56E-06	-233
1948	1956	204	17916.92	0.014	204.849	204.5	-3.96E-06	-3.24E-06	-4.69E-06	-1446	-1182	-1711	265	265	7.26E-07	7.26E-07	-18
1948	1956	206	17916.78	0.012	206.8504	206.5	-5.75E-06	-4.41E-06	-7.09E-06	-2098	-1609	-2587	489	489	1.34E-06	1.34E-06	-23
1948	1956	207	17916.67	0.012	207.8511	207.5	-7.65E-06	-6.14E-06	-9.15E-06	-2791	-2241	-3341	550	550	1.51E-06	1.51E-06	-20
1948	1956	208	17916.54	0.015	208.8517	208.5	-5.53E-06	-3.96E-06	-7.09E-06	-2017	-1446	-2587	570	570	1.56E-06	1.56E-06	-28
1948	1956	209	17916.44	0.013	209.8524	209.5	-6.47E-06	-5.08E-06	-7.87E-06	-2363	-1854	-2873	509	509	1.40E-06	1.40E-06	-22
1948	1956	210	17916.32	0.012	210.8531	210.5	-8.65E-06	-7.20E-06	-1.01E-05	-3158	-2628	-3687	530	530	1.45E-06	1.45E-06	-17
1948	1956	211	17916.17	0.014	211.8538	211.5	-3.29E-06	-1.84E-06	-4.74E-06	-1202	-672	-1732	530	530	1.45E-06	1.45E-06	-44
1948	1956	212	17916.11	0.012	212.8545	212.5	-6.81E-06	-5.41E-06	-8.20E-06	-2485	-1976	-2995	509	509	1.40E-06	1.40E-06	-20
1948	1956	213	17915.98	0.013	213.8552	213.5	-6.03E-06	-4.63E-06	-7.42E-06	-2200	-1691	-2710	509	509	1.40E-06	1.40E-06	-23
1948	1956	214	17915.88	0.012	214.8344	214.5	-7.70E-06	-6.08E-06	-9.32E-06	-2811	-2221	-3402	591	591	1.62E-06	1.62E-06	-21
1948	1956	215	17915.74	0.017	215.8351	215.5	-1.73E-06	-1.12E-07	-3.35E-06	-632	-41	-1222	591	591	1.62E-06	1.62E-06	-94
1948	1956	216	17915.71	0.012	216.8358	216.5	-1.23E-05	-1.08E-05	-1.37E-05	-4482	-3952	-5012	530	530	1.45E-06	1.45E-06	-12
1948	1956	217	17915.49	0.014	217.92	217.5	-5.47E-06	-4.07E-06	-6.87E-06	-1997	-1487	-2506	509	509	1.40E-06	1.40E-06	-26
1948	1956	218	17915.39	0.011	218.8372	218.5	-1.14E-04	-1.13E-04	-1.15E-04	-41687	-41218	-42155	469	469	1.28E-06	1.28E-06	-1
1948	1956	219	17913.34	0.012	219.8379	219.5	-1.47E-05	-1.32E-05	-1.62E-05	-5359	-4809	-5909	550	550	1.51E-06	1.51E-06	-10
1948	1956	220	17913.08	0.015	220.8386	220.5	-9.71E-06	-8.09E-06	-1.13E-05	-3545	-2955	-4136	591	591	1.62E-06	1.62E-06	-17
1948	1956	221	17912.91	0.014	221.8392	221.5	-1.22E-05	-1.05E-05	-1.40E-05	-4462	-3831	-5094	632	632	1.73E-06	1.73E-06	-14
1948	1956	222	17912.69	0.017	222.8399	222.5	-1.08E-05	-1.01E-05	-1.16E-05	-3953	-3678	-4228	275	275	7.54E-07	7.54E-07	-7
1948	1956	224	17912.3	0.01	224.8413	224.5	-1.23E-05	-1.08E-05	-1.38E-05	-4483	-3933	-5033	550	550	1.51E-06	1.51E-06	-12
1948	1956	225	17912.08	0.017	225.9255	225.5	-7.93E-06	-6.09E-06	-9.77E-06	-2894	-2221	-3566	672	672	1.84E-06	1.84E-06	-23
1948	1956	226	17911.94	0.016	226.9262	226.5	-1.19E-05	-9.94E-06	-1.38E-05	-4340	-3627	-5054	713	713	1.95E-06	1.95E-06	-16
1948	1956	227	17911.72	0.019	227.9269	227.5	-5.79E-06	-5.28E-06	-6.31E-06	-2114	-1926	-2303	188	188	5.16E-07	5.16E-07	-9
1948	1956	231	17911.31	0.018	231.8462	231.5	-9.60E-06	-7.65E-06	-1.16E-05	-3505	-2792	-4218	713	713	1.95E-06	1.95E-06	-20
1948	1956	232	17911.14	0.017	232.1811	232.5	-6.20E-06	-4.41E-06	-7.98E-06	-2262	-1610	-2914	652	652	1.79E-06	1.79E-06	-29
1948	1956	233	17911.03	0.015	233.1818	233.5	-3.35E-06	-1.79E-06	-4.91E-06	-1223	-652	-1793	571	571	1.56E-06	1.56E-06	-47
1948	1956	234	17910.97	0.013	234.8483	234.5	-6.14E-06	-4.63E-06	-7.65E-06	-2242	-1691	-2792	550	550	1.51E-06	1.51E-06	-25
1948	1956	235	17910.86	0.014	235.849	235.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1948	1957	140	23256.05	0.009	140.9304	140.5	5.16E-06	5.93E-06	4.39E-06	1883	2166	1601	283	283	7.74E-07	7.74E-07	15
1948	1957	141	23256.17	0.009	141.9311	141.5	5.11E-06	5.33E-06	4.88E-06	1864	1946	1781	82	82	2.26E-07	2.26E-07	4
1948	1957	145	23256.64	0.012	145.8504	145.5	5.42E-06	6.45E-06	4.39E-06	1977	2354	1601	377	377	1.03E-06	1.03E-06	19
1948	1957	146	23256.77	0.012	146.8511	146.5	5.12E-06	6.15E-06	4.08E-06	1868	2244	1491	377	377	1.03E-06	1.03E-06	20
1948	1957	147	23256.89	0.012	147.8517	147.5	5.34E-06	5.36E-06	5.32E-06	1949	1956	1942	7	7	2.03E-08	2.03E-08	0
1948	1957	202	23263.72	0.014	202.8476	202.5	6.40E-06	7.69E-06	5.12E-06	2338	2808	1867	471	471	1.29E-06	1.29E-06	20
1948	1957	203	23263.87	0.016	203.8483	203.5	7.35E-06	8.64E-06	6.06E-06	2683	3154	2212	471	471	1.29E-06	1.29E-06	18
1948	1957	204	23264.04	0.014	204.849	204.5	7.97E-06	8.49E-06	7.46E-06	2910	3099	2722	188	188	5.16E-07	5.16E-07	6
1948	1957	206	23264.41	0.01	206.8504	206.5	8.38E-06	9.24E-06	7.52E-06	3059	3373	2746	314	314	8.60E-07	8.60E-07	10
1948	1957	207	23264.61	0.01	207.8511	207.5	9.11E-06	1.01E-05	8.17E-06	3326	3671	2981	345	345	9.46E-07	9.46E-07	10
1948	1957	208	23264.82	0.012	208.8517	208.5	7.57E-06	8.64E-06	6.49E-06	2761	3153	2369	392	392	1.07E-06	1.07E-06	14
1948	1957	209	23264.99	0.013	209.8524	209.5	8.30E-06	9.28E-06	7.31E-06	3028	3389	2667	361	361	9.89E-07	9.89E-07	12
1948	1957	210	23265.19	0.01	210.8531	210.5	1.02E-05	1.11E-05	9.24E-06	3718	4063	3373	345	345	9.46E-07	9.46E-07	9
1948	1957	211	23265.42	0.012	211.8538	211.5	8.60E-06	9.58E-06	7.61E-06	3138	3499	2777	361	361	9.89E-07	9.89E-07	12
1948	1957	212	23265.62	0.011	212.8545	212.5	7.99E-06	8.94E-06	7.05E-06	2918	3263	2573	345	345	9.46E-07	9.46E-07	12
1948	1957	213	23265.81	0.011	213.8552	213.5	5.59E-06	6.53E-06	4.64E-06	2039	2385	1694	345	345	9.46E-07	9.46E-07	17
1948	1957	214	23265.94	0.011	214.8344	214.5	7.48E-06	8.55E-06	6.40E-06	2730	3122	2338	392	392	1.07E-06	1.07E-06	14
1948	1957	215	23266.11	0.014	215.8351	215.5	6.45E-06	7.52E-06	5.37E-06	2353	2745	1961	392	392	1.07E-06	1.07E-06	17
1948	1957	216	23266.26	0.011	216.8358	216.5	1.10E-05	1.20E-05	9.97E-06	4016	4393	3640	377	377	1.03E-06	1.03E-06	9
1948	1957	217	23266.52	0.013	217.92	217.5	3.95E-06	4.99E-06	2.92E-06	1443	1820	1067	377	377	1.03E-06	1.03E-06	26
1948	1957	218	23266.61	0.011	218.8372	218.5	9.43E-05	9.52E-05	9.33E-05	34402	34762	34041	361	361	9.88E-07	9.88E-07	1
1948	1957	219	23268.81	0.012	219.8379	219.5	1.16E-05	1.25E-05	1.06E-05	4220	4580	3859	361	361	9.88E-07	9.88E-07	9
1948	1957	220	23269.07	0.011	220.8386	220.5	1.41E-05	1.51E-05	1.31E-05	5145	5521	4769	376	376	1.03E-06	1.03E-06	7
1948	1957	221	23269.4	0.013	221.8392	221.5	1.15E-05	1.28E-05	1.03E-05	4204	4659	3749	455	455	1.25E-06	1.25E-06	11
1948	1957	222	23269.67	0.016	222.8399	222.5	1.12E-05	1.18E-05	1.06E-05	4078	4290	3866	212	212	5.80E-07	5.80E-07	5
1948	1957	224	23270.19	0.011	224.8413	224.5	1.07E-05	1.19E-05	9.45E-06	3890	4329	3451	439	439	1.20E-06	1.20E-06	11
1948	1957	225	23270.44	0.017	225.9255	225.5	5.50E-06	7.00E-06	4.00E-06	2008	2557	1459	549	549	1.50E-06	1.50E-06	27
1948	1957	226	23270.57	0.018	226.9262	226.5	7.69E-06	9.41E-06	5.97E-06	2808	3435	2180	627	627	1.72E-06	1.72E-06	22
1948	1957	227	23270.75	0.022	227.9269	227.5	1.06E-05	1.11E-05	1.02E-05	3886	4047	3725	161	161	4.40E-07	4.40E-07	4
1948	1957	231	23271.74	0.019	231.8462	231.5	6.83E-06	8.42E-06	5.24E-06	2494	3074	1913	580	580	1.59E-06	1.59E-06	23
1948	1957	232	23271.9	0.018	232.1811	232.5	6.96E-06	8.42E-06	5.50E-06	2541	3074	2008	533	533	1.46E-06	1.46E-06	21
1948	1957	233	23272.06	0.016	233.1818	233.5	4.86E-06	6.23E-06	3.48E-06	1772	2274	1270	502	502	1.38E-06	1.38E-06	28
1948	1957	234	23272.17	0.016	234.8483	234.5	6.92E-06	8.29E-06	5.54E-06	2525	3027	2023	502	502	1.38E-06	1.38E-06	20
1948	1957	235	23272.33	0.016	235.849	235.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1948	1962	140	46399.14	0.013	140.9304	140.5	1.88E-06	2.44E-06	1.31E-06	684	889	480	205	205	5.60E-07	5.60E-07	30
1948	1962	141	46399.23	0.013	141.9311	141.5	1.83E-06	1.98E-06	1.69E-06	669	722	616	53	53	1.45E-07	1.45E-07	8
1948	1962	145	46399.57	0.014	145.8504	145.5	1.88E-06	2.50E-06	1.25E-06	684	913	456	228	228	6.25E-07	6.25E-07	33
1948	1962	146	46399.65	0.015	146.8511	146.5	1.96E-06	2.61E-06	1.31E-06	716	952	480	236	236	6.47E-07	6.47E-07	33
1948	1962	147	46399.75	0.015	147.8517	147.5	1.93E-06	1.99E-06	1.87E-06	704	726	682	22	22	6.03E-08	6.03E-08	3
1948	1962	157	46400.64	0.013	157.8372	157.5	1.90E-06	2.46E-06	1.34E-06	692	897	488	205	205	5.60E-07	5.60E-07	30
1948	1962	158	46400.73	0.013	158.8379	158.5	1.94E-06	2.46E-06	1.42E-06	708	897	519	189	189	5.17E-07	5.17E-07	27
1948	1962	159	46400.82	0.011	159.8386	159.5	1.98E-06	2.46E-06	1.51E-06	724	897	551	173	173	4.74E-07	4.74E-07	24
1948	1962	160	46400.91	0.011	160.8392	160.5	1.98E-06	2.46E-06	1.51E-06	724	897	551	173	173	4.74E-07	4.74E-07	24
1948	1962	161	46401	0.011	161.8399	161.5	1.95E-06	1.96E-06	1.93E-06	711	716	706	5	5	1.34E-08	1.34E-08	1
1948	1962	198	46404.35	0.012	198.8448	198.5	1.94E-06	2.50E-06	1.38E-06	708	912	503	205	205	5.60E-07	5.60E-07	29
1948	1962	199	46404.44	0.014	199.8455	199.5	2.00E-06	2.63E-06	1.38E-06	732	960	503	228	228	6.25E-07	6.25E-07	31
1948	1962	200	46404.53	0.015	200.8462	200.5	2.44E-06	3.06E-06	1.81E-06	889	1117	661	228	228	6.25E-07	6.25E-07	26
1948	1962	201	46404.64	0.014	201.8469	201.5	2.13E-06	2.76E-06	1.51E-06	779	1007	551	228	228	6.25E-07	6.25E-07	29
1948	1962	202	46404.74	0.015	202.8476	202.5	2.44E-06	3.08E-06	1.79E-06	889	1125	653	236	236	6.46E-07	6.46E-07	27
1948	1962	203	46404.86	0.015	203.8483	203.5	3.17E-06	3.79E-06	2.54E-06	1156	1384	928	228	228	6.25E-07	6.25E-07	20
1948	1962	204	46405	0.014	204.849	204.5	3.26E-06	3.54E-06	2.98E-06	1192	1294	1089	102	102	2.80E-07	2.80E-07	9
1948	1962	206	46405.31	0.012	206.8504	206.5	3.47E-06	3.97E-06	2.97E-06	1266	1447	1085	181	181	4.96E-07	4.96E-07	14
1948	1962	207	46405.47	0.011	207.8511	207.5	3.94E-06	4.48E-06	3.40E-06	1439	1636	1243	197	197	5.39E-07	5.39E-07	14
1948	1962	208	46405.65	0.014	208.8517	208.5	3.34E-06	3.92E-06	2.76E-06	1219	1432	1007	212	212	5.82E-07	5.82E-07	17
1948	1962	209	46405.8	0.013	209.8524	209.5	3.40E-06	3.90E-06	2.91E-06	1243	1424	1062	181	181	4.96E-07	4.96E-07	15
1948	1962	210	46405.96	0.01	210.8531	210.5	4.61E-06	5.06E-06	4.16E-06	1683	1848	1518	165	165	4.53E-07	4.53E-07	10
1948	1962	211	46406.18	0.011	211.8538	211.5	3.81E-06	4.31E-06	3.32E-06	1392	1573	1211	181	181	4.96E-07	4.96E-07	13
1948	1962	212	46406.35	0.012	212.8545	212.5	3.58E-06	4.14E-06	3.02E-06	1306	1510	1101	204	204	5.60E-07	5.60E-07	16
1948	1962	213	46406.52	0.014	213.8552	213.5	2.43E-06	3.02E-06	1.85E-06	889	1101	676	212	212	5.82E-07	5.82E-07	24
1948	1962	214	46406.63	0.013	214.8344	214.5	3.12E-06	3.73E-06	2.52E-06	1140	1361	920	220	220	6.03E-07	6.03E-07	19
1948	1962	215	46406.78	0.015	215.8351	215.5	2.54E-06	3.15E-06	1.94E-06	928	1148	708	220	220	6.03E-07	6.03E-07	24
1948	1962	216	46406.9	0.013	216.8358	216.5	5.09E-06	5.62E-06	4.55E-06	1856	2053	1660	197	197	5.39E-07	5.39E-07	11
1948	1962	217	46407.13	0.012	217.92	217.5	2.26E-06	2.76E-06	1.77E-06	826	1007	645	181	181	4.96E-07	4.96E-07	22
1948	1962	218	46407.24	0.011	218.8372	218.5	4.81E-05	4.86E-05	4.76E-05	17547	17735	17358	189	189	5.17E-07	5.17E-07	1
1948	1962	219	46409.47	0.013	219.8379	219.5	5.71E-06	6.31E-06	5.11E-06	2084	2304	1864	220	220	6.03E-07	6.03E-07	11
1948	1962	220	46409.73	0.015	220.8386	220.5	6.33E-06	7.02E-06	5.65E-06	2312	2564	2061	252	252	6.90E-07	6.90E-07	11
1948	1962	221	46410.03	0.017	221.8392	221.5	6.08E-06	6.79E-06	5.37E-06	2218	2477	1958	260	260	7.11E-07	7.11E-07	12
1948	1962	222	46410.31	0.016	222.8399	222.5	4.70E-06	5.00E-06	4.40E-06	1714	1825	1604	110	110	3.02E-07	3.02E-07	6
1948	1962	224	46410.74	0.012	224.8413	224.5	5.02E-06	5.65E-06	4.40E-06	1832	2061	1604	228	228	6.25E-07	6.25E-07	12
1948	1962	225	46410.98	0.017	225.9255	225.5	3.30E-06	4.01E-06	2.59E-06	1203	1463	944	260	260	7.11E-07	7.11E-07	22
1948	1962	226	46411.13	0.016	226.9262	226.5	4.68E-06	5.49E-06	3.86E-06	1707	2005	1408	299	299	8.19E-07	8.19E-07	18
1948	1962	227	46411.35	0.022	227.9269	227.5	5.01E-06	5.25E-06	4.78E-06	1830	1915	1746	85	85	2.32E-07	2.32E-07	5
1948	1962	231	46412.28	0.021	231.8462	231.5	4.14E-06	4.96E-06	3.32E-06	1510	1809	1211	299	299	8.19E-07	8.19E-07	20
1948	1962	232	46412.47	0.017	232.1811	232.5	2.65E-06	3.38E-06	1.92E-06	967	1235	700	267	267	7.33E-07	7.33E-07	28
1948	1962	233	46412.59	0.017	233.1818	233.5	2.00E-06	2.74E-06	1.27E-06	731	999	464	267	267	7.33E-07	7.33E-07	37
1948	1962	234	46412.69	0.017	234.8483	234.5	2.28E-06	2.99E-06	1.57E-06	834	1093	574	260	260	7.11E-07	7.11E-07	31
1948	1962	235	46412.79	0.016	235.849	235.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1948	7238	140	17139.81	0.011	140.9304	140.5	-6.59E-06	-5.31E-06	-7.88E-06	-2406	-1938	-2875	469	469	1.28E-06	1.28E-06	-19
1948	7238	141	17139.7	0.011	141.9311	141.5	-6.93E-06	-6.86E-06	-7.01E-06	-2530	-2502	-2558	28	28	7.66E-08	7.66E-08	-1
1948	7238	157	17137.8	0.01	157.8372	157.5	-6.65E-06	-5.48E-06	-7.82E-06	-2428	-2002	-2854	426	426	1.17E-06	1.17E-06	-18
1948	7238	158	17137.69	0.01	158.8379	158.5	-6.89E-06	-5.72E-06	-8.05E-06	-2513	-2087	-2939	426	426	1.17E-06	1.17E-06	-17
1948	7238	159	17137.57	0.01	159.8386	159.5	-7.12E-06	-5.95E-06	-8.29E-06	-2598	-2172	-3024	426	426	1.17E-06	1.17E-06	-16
1948	7238	160	17137.45	0.01	160.8392	160.5	-7.00E-06	-5.84E-06	-8.17E-06	-2556	-2130	-2982	426	426	1.17E-06	1.17E-06	-17
1948	7238	161	17137.33	0.01	161.8399	161.5	-6.56E-06	-6.53E-06	-6.59E-06	-2394	-2382	-2407	13	13	3.47E-08	3.47E-08	-1
1948	7238	198	17133.17	0.012	198.8448	198.5	-5.95E-06	-4.44E-06	-7.47E-06	-2173	-1619	-2727	554	554	1.52E-06	1.52E-06	-25
1948	7238	199	17133.06	0.014	199.8455	199.5	-4.26E-06	-2.57E-06	-5.95E-06	-1555	-937	-2173	618	618	1.69E-06	1.69E-06	-40
1948	7238	200	17132.99	0.015	200.8462	200.5	-5.60E-06	-4.03E-06	-7.18E-06	-2045	-1470	-2620	575	575	1.58E-06	1.58E-06	-28
1948	7238	201	17132.9	0.012	201.8469	201.5	7.59E-07	2.16E-06	-6.42E-07	277	788	-234	511	511	1.40E-06	1.40E-06	185
1948	7238	202	17132.91	0.012	202.8476	202.5	-1.93E-06	-4.67E-07	-3.39E-06	-703	-170	-1236	533	533	1.46E-06	1.46E-06	-76
1948	7238	203	17132.88	0.013	203.8483	203.5	-7.00E-07	8.76E-07	-2.28E-06	-256	320	-831	575	575	1.58E-06	1.58E-06	-225
1948	7238	204	17132.86	0.014	204.849	204.5	-4.99E-06	-4.29E-06	-5.69E-06	-1822	-1566	-2077	256	256	7.00E-07	7.00E-07	-14
1948	7238	206	17132.69	0.01	206.8504	206.5	-7.18E-06	-5.90E-06	-8.46E-06	-2620	-2152	-3089	469	469	1.28E-06	1.28E-06	-18
1948	7238	207	17132.57	0.012	207.8511	207.5	-8.93E-06	-7.53E-06	-1.03E-05	-3260	-2748	-3771	511	511	1.40E-06	1.40E-06	-16
1948	7238	208	17132.42	0.012	208.8517	208.5	-6.60E-06	-5.19E-06	-8.00E-06	-2407	-1896	-2919	511	511	1.40E-06	1.40E-06	-21
1948	7238	209	17132.3	0.012	209.8524	209.5	-7.24E-06	-5.90E-06	-8.58E-06	-2642	-2152	-3132	490	490	1.34E-06	1.34E-06	-19
1948	7238	210	17132.18	0.011	210.8531	210.5	-9.69E-06	-8.29E-06	-1.11E-05	-3537	-3025	-4048	511	511	1.40E-06	1.40E-06	-14
1948	7238	211	17132.01	0.013	211.8538	211.5	-5.55E-06	-4.14E-06	-6.95E-06	-2024	-1513	-2535	511	511	1.40E-06	1.40E-06	-25
1948	7238	212	17131.92	0.011	212.8545	212.5	-8.11E-06	-6.77E-06	-9.46E-06	-2961	-2471	-3451	490	490	1.34E-06	1.34E-06	-17
1948	7238	213	17131.78	0.012	213.8552	213.5	-7.35E-06	-6.01E-06	-8.70E-06	-2684	-2194	-3175	490	490	1.34E-06	1.34E-06	-18
1948	7238	214	17131.65	0.011	214.8344	214.5	-8.58E-06	-7.00E-06	-1.02E-05	-3132	-2557	-3707	575	575	1.58E-06	1.58E-06	-18
1948	7238	215	17131.51	0.016	215.8351	215.5	-2.28E-06	-7.00E-07	-3.85E-06	-831	-256	-1406	575	575	1.58E-06	1.58E-06	-69
1948	7238	216	17131.47	0.011	216.8358	216.5	-1.33E-05	-1.18E-05	-1.47E-05	-4836	-4325	-5348	511	511	1.40E-06	1.40E-06	-11
1948	7238	217	17131.24	0.013	217.92	217.5	-6.48E-06	-5.08E-06	-7.88E-06	-2365	-1854	-2876	511	511	1.40E-06	1.40E-06	-22
1948	7238	218	17131.13	0.011	218.8372	218.5	-1.17E-04	-1.16E-04	-1.19E-04	-42849	-42317	-43382	533	533	1.46E-06	1.46E-06	-1
1948	7238	219	17129.12	0.014	219.8379	219.5	-1.62E-05	-1.45E-05	-1.78E-05	-5903	-5306	-6499	597	597	1.63E-06	1.63E-06	-10
1948	7238	220	17128.84	0.014	220.8386	220.5	-1.02E-05	-8.52E-06	-1.19E-05	-3729	-3111	-4347	618	618	1.69E-06	1.69E-06	-17
1948	7238	221	17128.67	0.015	221.8392	221.5	-1.39E-05	-1.20E-05	-1.58E-05	-5072	-4390	-5754	682	682	1.87E-06	1.87E-06	-13
1948	7238	222	17128.43	0.017	222.8399	222.5	-1.18E-05	-1.10E-05	-1.26E-05	-4315	-4028	-4603	288	288	7.88E-07	7.88E-07	-7
1948	7238	224	17128.02	0.01	224.8413	224.5	-1.35E-05	-1.19E-05	-1.51E-05	-4923	-4347	-5498	575	575	1.58E-06	1.58E-06	-12
1948	7238	225	17127.79	0.017	225.9255	225.5	-8.52E-06	-6.54E-06	-1.05E-05	-3111	-2387	-3836	725	725	1.99E-06	1.99E-06	-23
1948	7238	226	17127.65	0.017	226.9262	226.5	-1.40E-05	-1.19E-05	-1.61E-05	-5093	-4326	-5860	767	767	2.10E-06	2.10E-06	-15
1948	7238	227	17127.41	0.019	227.9269	227.5	-6.52E-06	-5.94E-06	-7.11E-06	-2382	-2168	-2595	213	213	5.84E-07	5.84E-07	-9
1948	7238	231	17126.96	0.021	231.8462	231.5	-1.12E-05	-8.87E-06	-1.35E-05	-4092	-3239	-4944	852	852	2.34E-06	2.34E-06	-21
1948	7238	232	17126.77	0.019	232.1811	232.5	-6.83E-06	-4.61E-06	-9.05E-06	-2493	-1684	-3303	810	810	2.22E-06	2.22E-06	-32
1948	7238	233	17126.65	0.019	233.1818	233.5	-4.09E-06	-2.10E-06	-6.07E-06	-1492	-767	-2216	725	725	1.99E-06	1.99E-06	-49
1948	7238	234	17126.58	0.015	234.8483	234.5	-6.71E-06	-4.90E-06	-8.52E-06	-2451	-1790	-3112	661	661	1.81E-06	1.81E-06	-27
1948	7238	235	17126.47	0.016	235.849	235.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1950	1951	127	36582.86	0.009	127.8379	127.5	-3.15E-06	-3.10E-06	-3.19E-06	-1148	-1133	-1164	15	15	4.21E-08	4.21E-08	-1
1950	1951	140	36581.37	0.011	140.9304	140.5	-3.09E-06	-2.41E-06	-3.77E-06	-1127	-878	-1377	249	249	6.83E-07	6.83E-07	-22
1950	1951	141	36581.25	0.014	141.9311	141.5	-3.06E-06	-3.02E-06	-3.10E-06	-1117	-1103	-1131	14	14	3.93E-08	3.93E-08	-1
1950	1951	157	36579.46	0.009	157.8372	157.5	-2.70E-06	-2.69E-06	-2.71E-06	-985	-981	-990	5	5	1.28E-08	1.28E-08	0
1950	1951	202	36575.02	0.012	202.8476	202.5	-3.01E-07	3.55E-07	-9.57E-07	-110	130	-349	240	240	6.56E-07	6.56E-07	-218
1950	1951	203	36575.01	0.012	203.8483	203.5	1.09E-07	7.93E-07	-5.74E-07	40	289	-210	249	249	6.84E-07	6.84E-07	625
1950	1951	204	36575.01	0.013	204.849	204.5	-4.37E-07	-1.23E-07	-7.52E-07	-160	-45	-274	115	115	3.14E-07	3.14E-07	-72
1950	1951	206	36574.98	0.01	206.8504	206.5	-1.78E-06	-1.18E-06	-2.38E-06	-649	-429	-868	220	220	6.02E-07	6.02E-07	-34
1950	1951	207	36574.91	0.012	207.8511	207.5	-1.78E-06	-1.15E-06	-2.41E-06	-649	-419	-878	230	230	6.29E-07	6.29E-07	-35
1950	1951	208	36574.85	0.011	208.8517	208.5	-1.59E-06	-9.84E-07	-2.19E-06	-579	-359	-798	220	220	6.02E-07	6.02E-07	-38
1950	1951	209	36574.79	0.011	209.8524	209.5	-1.72E-06	-1.18E-06	-2.27E-06	-629	-429	-828	200	200	5.47E-07	5.47E-07	-32
1950	1951	210	36574.73	0.009	210.8531	210.5	-2.30E-06	-1.78E-06	-2.82E-06	-838	-649	-1028	190	190	5.19E-07	5.19E-07	-23
1950	1951	211	36574.64	0.01	211.8538	211.5	-1.23E-06	-6.84E-07	-1.78E-06	-449	-249	-649	200	200	5.47E-07	5.47E-07	-44
1950	1951	212	36574.6	0.01	212.8545	212.5	-1.80E-06	-1.23E-06	-2.38E-06	-659	-449	-868	210	210	5.74E-07	5.74E-07	-32
1950	1951	213	36574.53	0.011	213.8552	213.5	-1.83E-06	-1.23E-06	-2.43E-06	-669	-449	-888	220	220	6.02E-07	6.02E-07	-33
1950	1951	214	36574.47	0.011	214.8344	214.5	-2.00E-06	-1.39E-06	-2.60E-06	-729	-509	-948	220	220	6.02E-07	6.02E-07	-30
1950	1951	215	36574.39	0.011	215.8351	215.5	-2.24E-06	-1.64E-06	-2.84E-06	-818	-599	-1038	220	220	6.02E-07	6.02E-07	-27
1950	1951	216	36574.31	0.011	216.8358	216.5	-2.98E-06	-2.41E-06	-3.55E-06	-1088	-878	-1297	210	210	5.74E-07	5.74E-07	-19
1950	1951	217	36574.2	0.01	217.92	217.5	-2.98E-06	-2.43E-06	-3.53E-06	-1088	-888	-1287	200	200	5.47E-07	5.47E-07	-18
1950	1951	218	36574.09	0.01	218.8372	218.5	-3.28E-06	-2.73E-06	-3.83E-06	-1198	-998	-1397	200	200	5.47E-07	5.47E-07	-17
1950	1951	219	36573.97	0.01	219.8379	219.5	-3.28E-06	-2.73E-06	-3.83E-06	-1198	-998	-1397	200	200	5.47E-07	5.47E-07	-17
1950	1951	220	36573.85	0.01	220.8386	220.5	-1.89E-06	-1.31E-06	-2.46E-06	-689	-479	-898	210	210	5.74E-07	5.74E-07	-30
1950	1951	221	36573.78	0.011	221.8392	221.5	-2.54E-06	-1.94E-06	-3.14E-06	-928	-709	-1148	220	220	6.02E-07	6.02E-07	-24
1950	1951	222	36573.69	0.011	222.8399	222.5	-3.39E-06	-2.82E-06	-3.96E-06	-1238	-1028	-1447	210	210	5.74E-07	5.74E-07	-17
1950	1951	223	36573.57	0.01	223.8406	223.5	-3.42E-06	-2.84E-06	-3.99E-06	-1247	-1038	-1457	210	210	5.74E-07	5.74E-07	-17
1950	1951	224	36573.44	0.011	224.8413	224.5	-3.64E-06	-3.09E-06	-4.18E-06	-1327	-1128	-1527	200	200	5.47E-07	5.47E-07	-15
1950	1951	225	36573.31	0.009	225.9255	225.5	-4.07E-06	-3.50E-06	-4.65E-06	-1487	-1277	-1697	210	210	5.74E-07	5.74E-07	-14
1950	1951	226	36573.16	0.012	226.9262	226.5	-4.07E-06	-3.36E-06	-4.78E-06	-1487	-1228	-1747	259	259	7.11E-07	7.11E-07	-17
1950	1951	227	36573.01	0.014	227.9269	227.5	-8.20E-07	-4.78E-07	-1.16E-06	-299	-175	-424	125	125	3.42E-07	3.42E-07	-42
1950	1951	229	36572.95	0.011	229.8448	229.5	-1.97E-06	-1.37E-06	-2.57E-06	-719	-499	-938	220	220	6.02E-07	6.02E-07	-31
1950	1951	230	36572.88	0.011	230.8455	230.5	-2.82E-06	-2.24E-06	-3.39E-06	-1028	-818	-1238	210	210	5.74E-07	5.74E-07	-20
1950	1951	231	36572.78	0.01	231.8462	231.5	-6.29E-06	-5.77E-06	-6.81E-06	-2295	-2106	-2485	190	190	5.20E-07	5.20E-07	-8
1950	1951	232	36572.55	0.009	232.1811	232.5	-3.12E-06	-2.60E-06	-3.64E-06	-1138	-948	-1327	190	190	5.20E-07	5.20E-07	-17
1950	1951	233	36572.43	0.01	233.1818	233.5	-1.64E-06	-1.09E-06	-2.19E-06	-599	-399	-798	200	200	5.47E-07	5.47E-07	-33
1950	1951	234	36572.37	0.01	234.8483	234.5	-2.57E-06	-2.05E-06	-3.09E-06	-938	-749	-1128	190	190	5.20E-07	5.20E-07	-20
1950	1951	235	36572.28	0.009	235.849	235.5	-3.14E-06	-2.65E-06	-3.64E-06	-1148	-968	-1327	180	180	4.92E-07	4.92E-07	-16
1950	1951	236	36572.16	0.009	236.8497	236.5	-3.04E-06	-2.57E-06	-3.50E-06	-1108	-938	-1277	170	170	4.65E-07	4.65E-07	-15
1950	1951	237	36572.05	0.008	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1950	1956	127	36092.62	0.009	127.8379	127.5	-2.24E-06	-2.20E-06	-2.28E-06	-817	-801	-832	16	16	4.26E-08	4.26E-08	-2
1950	1956	140	36091.57	0.011	140.9304	140.5	-2.24E-06	-1.58E-06	-2.91E-06	-819	-576	-1062	243	243	6.65E-07	6.65E-07	-30
1950	1956	141	36091.49	0.013	141.9311	141.5	-2.19E-06	-3.44E-05	-3.56E-05	-798	-12541	-12986	-11743	12188	-3.22E-05	3.34E-05	1472
1950	1956	157	36090.23	0.009	157.8372	157.5	-1.75E-06	-7.80E-05	-7.91E-05	-637	-28481	-28885	-27843	28248	-7.63E-05	7.74E-05	4368
1950	1956	202	36087.39	0.011	202.8476	202.5	1.25E-06	1.88E-06	6.10E-07	455	688	223	233	233	6.37E-07	6.37E-07	51
1950	1956	203	36087.44	0.012	203.8483	203.5	1.66E-06	2.30E-06	1.03E-06	607	839	374	233	233	6.37E-07	6.37E-07	38
1950	1956	204	36087.5	0.011	204.849	204.5	1.57E-06	1.87E-06	1.26E-06	571	683	460	111	111	3.05E-07	3.05E-07	19
1950	1956	206	36087.61	0.011	206.8504	206.5	4.99E-07	1.11E-06	-1.11E-07	182	405	-40	223	223	6.10E-07	6.10E-07	122
1950	1956	207	36087.63	0.011	207.8511	207.5	-1.66E-07	4.43E-07	-7.76E-07	-61	162	-283	223	223	6.10E-07	6.10E-07	-367
1950	1956	208	36087.62	0.011	208.8517	208.5	-1.11E-07	5.26E-07	-7.48E-07	-40	192	-273	233	233	6.37E-07	6.37E-07	-575
1950	1956	209	36087.62	0.012	209.8524	209.5	-4.43E-07	1.66E-07	-1.05E-06	-162	61	-384	223	223	6.10E-07	6.10E-07	-138
1950	1956	210	36087.6	0.01	210.8531	210.5	-6.65E-07	-1.11E-07	-1.22E-06	-243	-40	-445	202	202	5.54E-07	5.54E-07	-83
1950	1956	211	36087.58	0.01	211.8538	211.5	1.27E-06	1.83E-06	7.20E-07	465	668	263	202	202	5.54E-07	5.54E-07	43
1950	1956	212	36087.62	0.01	212.8545	212.5	-5.26E-07	8.31E-08	-1.14E-06	-192	30	-415	223	223	6.10E-07	6.10E-07	-116
1950	1956	213	36087.6	0.012	213.8552	213.5	-7.20E-07	-2.77E-08	-1.41E-06	-263	-10	-516	253	253	6.93E-07	6.93E-07	-96
1950	1956	214	36087.58	0.013	214.8344	214.5	-9.70E-07	-2.49E-07	-1.69E-06	-354	-91	-617	263	263	7.20E-07	7.20E-07	-74
1950	1956	215	36087.54	0.013	215.8351	215.5	-1.03E-06	-3.88E-07	-1.66E-06	-374	-142	-607	233	233	6.37E-07	6.37E-07	-62
1950	1956	216	36087.51	0.01	216.8358	216.5	-1.63E-06	-1.05E-06	-2.22E-06	-597	-384	-809	212	212	5.82E-07	5.82E-07	-36
1950	1956	217	36087.45	0.011	217.92	217.5	-2.24E-06	-1.66E-06	-2.83E-06	-819	-607	-1032	212	212	5.82E-07	5.82E-07	-26
1950	1956	218	36087.37	0.01	218.8372	218.5	-2.08E-06	-1.52E-06	-2.63E-06	-759	-556	-961	202	202	5.54E-07	5.54E-07	-27
1950	1956	219	36087.29	0.01	219.8379	219.5	-2.22E-06	-1.66E-06	-2.77E-06	-809	-607	-1011	202	202	5.54E-07	5.54E-07	-25
1950	1956	220	36087.21	0.01	220.8386	220.5	4.43E-07	1.03E-06	-1.39E-07	162	374	-51	212	212	5.82E-07	5.82E-07	131
1950	1956	221	36087.23	0.011	221.8392	221.5	-1.58E-06	-9.98E-07	-2.16E-06	-577	-364	-789	212	212	5.82E-07	5.82E-07	-37
1950	1956	222	36087.17	0.01	222.8399	222.5	-2.58E-06	-2.02E-06	-3.13E-06	-941	-738	-1143	202	202	5.54E-07	5.54E-07	-22
1950	1956	223	36087.08	0.01	223.8406	223.5	-2.58E-06	-2.00E-06	-3.16E-06	-941	-728	-1153	212	212	5.82E-07	5.82E-07	-23
1950	1956	224	36086.98	0.011	224.8413	224.5	-2.74E-06	-2.19E-06	-3.30E-06	-1001	-799	-1204	202	202	5.54E-07	5.54E-07	-20
1950	1956	225	36086.89	0.009	225.9255	225.5	-3.08E-06	-2.49E-06	-3.66E-06	-1123	-910	-1335	212	212	5.82E-07	5.82E-07	-19
1950	1956	226	36086.77	0.012	226.9262	226.5	-2.91E-06	-2.22E-06	-3.60E-06	-1062	-809	-1315	253	253	6.93E-07	6.93E-07	-24
1950	1956	227	36086.67	0.013	227.9269	227.5	7.48E-07	1.09E-06	4.02E-07	273	400	147	126	126	3.46E-07	3.46E-07	46
1950	1956	229	36086.72	0.012	229.8448	229.5	-4.16E-07	2.22E-07	-1.05E-06	-152	81	-384	233	233	6.37E-07	6.37E-07	-153
1950	1956	230	36086.71	0.011	230.8455	230.5	-1.33E-06	-7.48E-07	-1.91E-06	-485	-273	-698	212	212	5.82E-07	5.82E-07	-44
1950	1956	231	36086.66	0.01	231.8462	231.5	-4.71E-06	-4.18E-06	-5.24E-06	-1719	-1527	-1912	192	192	5.27E-07	5.27E-07	-11
1950	1956	232	36086.49	0.009	232.1811	232.5	-2.02E-06	-1.50E-06	-2.55E-06	-738	-546	-931	192	192	5.27E-07	5.27E-07	-26
1950	1956	233	36086.42	0.01	233.1818	233.5	-9.42E-07	-4.16E-07	-1.47E-06	-344	-152	-536	192	192	5.27E-07	5.27E-07	-56
1950	1956	234	36086.38	0.009	234.8483	234.5	-1.58E-06	-1.08E-06	-2.08E-06	-577	-394	-759	182	182	4.99E-07	4.99E-07	-32
1950	1956	235	36086.33	0.009	235.849	235.5	-2.22E-06	-1.75E-06	-2.69E-06	-809	-637	-981	172	172	4.71E-07	4.71E-07	-21
1950	1956	236	36086.25	0.008	236.8497	236.5	-2.13E-06	-1.72E-06	-2.55E-06	-779	-627	-931	152	152	4.16E-07	4.16E-07	-19
1950	1956	237	36086.17	0.007	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1950	1957	140	2006.764	0.01	140.9304	140.5	4.98E-06	1.54E-05	-5.48E-06	1819	5638	-2001	3820	3820	1.05E-05	1.05E-05	210
1950	1957	141	2006.774	0.011	141.9311	141.5	4.36E-06	4.56E-06	4.17E-06	1592	1664	1520	72	72	1.96E-07	1.96E-07	4
1950	1957	202	2007.308	0.013	202.8476	202.5	1.99E-06	1.49E-05	-1.10E-05	727	5455	-4000	4728	4728	1.30E-05	1.30E-05	650
1950	1957	203	2007.312	0.013	203.8483	203.5	6.48E-06	1.99E-05	-6.97E-06	2364	7273	-2546	4910	4910	1.35E-05	1.35E-05	208
1950	1957	204	2007.325	0.014	204.849	204.5	3.49E-06	9.47E-06	-2.49E-06	1273	3455	-909	2182	2182	5.98E-06	5.98E-06	171
1950	1957	206	2007.339	0.01	206.8504	206.5	-1.49E-06	8.47E-06	-1.15E-05	-545	3091	-4182	3637	3637	9.96E-06	9.96E-06	-667
1950	1957	207	2007.336	0.01	207.8511	207.5	-3.49E-06	6.97E-06	-1.39E-05	-1273	2546	-5091	3818	3819	1.05E-05	1.05E-05	-300
1950	1957	208	2007.329	0.011	208.8517	208.5	1.94E-05	3.09E-05	7.97E-06	7091	11274	2909	4182	4182	1.15E-05	1.15E-05	59
1950	1957	209	2007.368	0.012	209.8524	209.5	4.98E-06	1.54E-05	-5.48E-06	1818	5637	-2000	3818	3818	1.05E-05	1.05E-05	210
1950	1957	210	2007.378	0.009	210.8531	210.5	8.97E-06	1.74E-05	4.98E-07	3273	6364	182	3091	3091	8.47E-06	8.47E-06	94
1950	1957	211	2007.396	0.008	211.8538	211.5	5.98E-06	1.44E-05	-2.49E-06	2182	5273	-909	3091	3091	8.47E-06	8.47E-06	142
1950	1957	212	2007.408	0.009	212.8545	212.5	6.48E-06	1.59E-05	-2.99E-06	2364	5818	-1091	3455	3455	9.46E-06	9.46E-06	146
1950	1957	213	2007.421	0.01	213.8552	213.5	4.48E-06	1.44E-05	-5.48E-06	1636	5273	-2000	3636	3636	9.96E-06	9.96E-06	222
1950	1957	214	2007.43	0.01	214.8344	214.5	7.97E-06	1.74E-05	-1.49E-06	2909	6364	-545	3455	3455	9.46E-06	9.46E-06	119
1950	1957	215	2007.446	0.009	215.8351	215.5	5.98E-06	1.49E-05	-2.99E-06	2182	5455	-1091	3273	3273	8.97E-06	8.97E-06	150
1950	1957	216	2007.458	0.009	216.8358	216.5	7.47E-06	1.54E-05	-4.98E-07	2727	5636	-182	2909	2909	7.97E-06	7.97E-06	107
1950	1957	217	2007.473	0.007	217.92	217.5	-4.98E-07	6.97E-06	-7.97E-06	-182	2545	-2909	2727	2727	7.47E-06	7.47E-06	-1500
1950	1957	218	2007.472	0.008	218.8372	218.5	9.46E-06	1.74E-05	1.49E-06	3455	6364	545	2909	2909	7.97E-06	7.97E-06	84
1950	1957	219	2007.491	0.008	219.8379	219.5	7.47E-06	1.54E-05	-4.98E-07	2727	5636	-182	2909	2909	7.97E-06	7.97E-06	107
1950	1957	220	2007.506	0.008	220.8386	220.5	5.98E-06	1.39E-05	-1.99E-06	2182	5091	-727	2909	2909	7.97E-06	7.97E-06	133
1950	1957	221	2007.518	0.008	221.8392	221.5	4.98E-06	1.25E-05	-2.49E-06	1818	4545	-909	2727	2727	7.47E-06	7.47E-06	150
1950	1957	222	2007.528	0.007	222.8399	222.5	8.47E-06	1.59E-05	9.96E-07	3091	5818	364	2727	2727	7.47E-06	7.47E-06	88
1950	1957	223	2007.545	0.008	223.8406	223.5	7.47E-06	1.59E-05	-9.96E-07	2727	5818	-364	3091	3091	8.47E-06	8.47E-06	113
1950	1957	224	2007.56	0.009	224.8413	224.5	3.98E-06	1.25E-05	-4.48E-06	1454	4545	-1636	3091	3091	8.47E-06	8.47E-06	213
1950	1957	225	2007.568	0.008	225.9255	225.5	0.00E+00	7.47E-06	-7.47E-06	0	2727	-2727	2727	2727	7.47E-06	7.47E-06	0
1950	1957	226	2007.568	0.007	226.9262	226.5	5.98E-06	1.39E-05	-1.99E-06	2182	5091	-727	2909	2909	7.97E-06	7.97E-06	133
1950	1957	227	2007.58	0.009	227.9269	227.5	5.73E-06	1.05E-05	9.96E-07	2091	3818	364	1727	1727	4.73E-06	4.73E-06	83
1950	1957	229	2007.603	0.01	229.8448	229.5	4.48E-06	1.44E-05	-5.48E-06	1636	5272	-2000	3636	3636	9.96E-06	9.96E-06	222
1950	1957	230	2007.612	0.01	230.8455	230.5	8.47E-06	1.79E-05	-9.96E-07	3091	6545	-364	3454	3454	9.46E-06	9.46E-06	112
1950	1957	231	2007.629	0.009	231.8462	231.5	1.34E-05	2.19E-05	4.98E-06	4909	7999	1818	3091	3091	8.47E-06	8.47E-06	63
1950	1957	232	2007.656	0.008	232.1811	232.5	6.97E-06	1.54E-05	-1.49E-06	2545	5636	-545	3091	3091	8.47E-06	8.47E-06	121
1950	1957	233	2007.67	0.009	233.1818	233.5	4.98E-06	1.44E-05	-4.48E-06	1818	5272	-1636	3454	3454	9.46E-06	9.46E-06	190
1950	1957	234	2007.68	0.01	234.8483	234.5	8.97E-06	1.79E-05	0.00E+00	3272	6545	0	3272	3272	8.97E-06	8.97E-06	100
1950	1957	235	2007.698	0.008	235.849	235.5	8.47E-06	1.74E-05	-4.98E-07	3091	6363	-182	3272	3272	8.97E-06	8.97E-06	106
1950	1957	236	2007.715	0.01	236.8497	236.5	2.49E-06	1.15E-05	-6.48E-06	909	4181	-2363	3272	3272	8.97E-06	8.97E-06	360
1950	1957	237	2007.72	0.008	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1950	1962	140	24745.33	0.012	140.9304	140.5	-9.29E-07	8.08E-08	-1.94E-06	-339	30	-708	369	369	1.01E-06	1.01E-06	-109
1950	1962	141	24745.3	0.013	141.9311	141.5	-1.04E-06	-9.70E-07	-1.11E-06	-379	-354	-404	25	25	6.82E-08	6.82E-08	-7
1950	1962	157	24744.89	0.014	157.8372	157.5	-1.03E-06	-1.00E-06	-1.06E-06	-376	-366	-385	10	10	2.60E-08	2.60E-08	-3
1950	1962	202	24743.75	0.015	202.8476	202.5	-1.45E-06	-2.83E-07	-2.63E-06	-531	-103	-959	428	428	1.17E-06	1.17E-06	-81
1950	1962	203	24743.71	0.014	203.8483	203.5	-4.45E-07	6.87E-07	-1.58E-06	-162	251	-575	413	413	1.13E-06	1.13E-06	-255
1950	1962	204	24743.7	0.014	204.849	204.5	-1.29E-06	-7.48E-07	-1.84E-06	-472	-273	-671	199	199	5.46E-07	5.46E-07	-42
1950	1962	206	24743.64	0.013	206.8504	206.5	-1.37E-06	-3.23E-07	-2.42E-06	-502	-118	-885	384	384	1.05E-06	1.05E-06	-76
1950	1962	207	24743.6	0.013	207.8511	207.5	-1.29E-06	-2.83E-07	-2.30E-06	-472	-103	-841	369	369	1.01E-06	1.01E-06	-78
1950	1962	208	24743.57	0.012	208.8517	208.5	-8.08E-08	8.89E-07	-1.05E-06	-30	325	-384	354	354	9.70E-07	9.70E-07	-1200
1950	1962	209	24743.57	0.012	209.8524	209.5	-1.09E-06	-2.02E-07	-1.98E-06	-398	-74	-723	325	325	8.89E-07	8.89E-07	-81
1950	1962	210	24743.54	0.01	210.8531	210.5	-3.64E-07	4.45E-07	-1.17E-06	-133	162	-428	295	295	8.08E-07	8.08E-07	-222
1950	1962	211	24743.53	0.01	211.8538	211.5	-4.85E-07	3.64E-07	-1.33E-06	-177	133	-487	310	310	8.49E-07	8.49E-07	-175
1950	1962	212	24743.52	0.011	212.8545	212.5	-3.64E-07	6.06E-07	-1.33E-06	-133	221	-487	354	354	9.70E-07	9.70E-07	-267
1950	1962	213	24743.51	0.013	213.8552	213.5	-4.85E-07	6.06E-07	-1.58E-06	-177	221	-575	398	398	1.09E-06	1.09E-06	-225
1950	1962	214	24743.5	0.014	214.8344	214.5	-7.27E-07	4.04E-07	-1.86E-06	-266	148	-679	413	413	1.13E-06	1.13E-06	-156
1950	1962	215	24743.48	0.014	215.8351	215.5	-4.45E-07	6.06E-07	-1.50E-06	-162	221	-546	384	384	1.05E-06	1.05E-06	-236
1950	1962	216	24743.47	0.012	216.8358	216.5	-2.42E-07	6.06E-07	-1.09E-06	-89	221	-398	310	310	8.49E-07	8.49E-07	-350
1950	1962	217	24743.46	0.009	217.92	217.5	2.83E-07	1.05E-06	-4.85E-07	103	384	-177	280	280	7.68E-07	7.68E-07	271
1950	1962	218	24743.47	0.01	218.8372	218.5	-4.85E-07	3.64E-07	-1.33E-06	-177	133	-487	310	310	8.49E-07	8.49E-07	-175
1950	1962	219	24743.46	0.011	219.8379	219.5	1.62E-07	1.09E-06	-7.68E-07	59	398	-280	339	339	9.30E-07	9.30E-07	575
1950	1962	220	24743.46	0.012	220.8386	220.5	-8.08E-07	2.02E-07	-1.82E-06	-295	74	-664	369	369	1.01E-06	1.01E-06	-125
1950	1962	221	24743.44	0.013	221.8392	221.5	8.89E-07	1.82E-06	-4.04E-08	325	664	-15	339	339	9.30E-07	9.30E-07	105
1950	1962	222	24743.46	0.01	222.8399	222.5	-1.21E-06	-4.04E-07	-2.02E-06	-443	-148	-738	295	295	8.08E-07	8.08E-07	-67
1950	1962	223	24743.43	0.01	223.8406	223.5	-7.68E-07	4.04E-08	-1.58E-06	-280	15	-575	295	295	8.08E-07	8.08E-07	-105
1950	1962	224	24743.42	0.01	224.8413	224.5	-3.64E-07	4.45E-07	-1.17E-06	-133	162	-428	295	295	8.08E-07	8.08E-07	-222
1950	1962	225	24743.41	0.01	225.9255	225.5	3.23E-07	1.13E-06	-4.85E-07	118	413	-177	295	295	8.08E-07	8.08E-07	250
1950	1962	226	24743.41	0.01	226.9262	226.5	1.78E-06	2.79E-06	7.68E-07	649	1018	280	369	369	1.01E-06	1.01E-06	57
1950	1962	227	24743.46	0.015	227.9269	227.5	3.44E-07	9.90E-07	-3.03E-07	125	361	-111	236	236	6.47E-07	6.47E-07	188
1950	1962	229	24743.48	0.017	229.8448	229.5	3.23E-07	1.58E-06	-9.30E-07	118	575	-339	457	457	1.25E-06	1.25E-06	388
1950	1962	230	24743.48	0.014	230.8455	230.5	-3.64E-07	6.47E-07	-1.37E-06	-133	236	-502	369	369	1.01E-06	1.01E-06	-278
1950	1962	231	24743.47	0.011	231.8462	231.5	2.38E-06	3.23E-06	1.54E-06	870	1180	561	310	310	8.49E-07	8.49E-07	36
1950	1962	232	24743.53	0.01	232.1811	232.5	-6.87E-07	2.42E-07	-1.62E-06	-251	89	-590	339	339	9.30E-07	9.30E-07	-135
1950	1962	233	24743.52	0.013	233.1818	233.5	-2.83E-07	7.27E-07	-1.29E-06	-103	266	-472	369	369	1.01E-06	1.01E-06	-357
1950	1962	234	24743.51	0.012	234.8483	234.5	-1.58E-06	-6.47E-07	-2.51E-06	-575	-236	-915	339	339	9.30E-07	9.30E-07	-59
1950	1962	235	24743.47	0.011	235.849	235.5	-7.27E-07	1.62E-07	-1.62E-06	-266	59	-590	325	325	8.89E-07	8.89E-07	-122
1950	1962	236	24743.45	0.011	236.8497	236.5	-1.17E-06	-3.23E-07	-2.02E-06	-428	-118	-738	310	310	8.49E-07	8.49E-07	-72
1950	1962	237	24743.42	0.01	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1950	7238	127	35071.87	0.01	127.8379	127.5	-2.40E-06	-2.35E-06	-2.45E-06	-875	-857	-893	18	18	5.04E-08	5.04E-08	-2
1950	7238	140	35070.77	0.013	140.9304	140.5	-2.42E-06	-1.74E-06	-3.11E-06	-885	-635	-1134	250	250	6.84E-07	6.84E-07	-28
1950	7238	141	35070.69	0.011	141.9311	141.5	-2.34E-06	-2.31E-06	-2.38E-06	-855	-842	-869	14	14	3.74E-08	3.74E-08	-2
1950	7238	157	35069.37	0.01	157.8372	157.5	-1.98E-06	-1.96E-06	-1.99E-06	-721	-716	-726	5	5	1.39E-08	1.39E-08	-1
1950	7238	202	35066.25	0.012	202.8476	202.5	1.48E-06	2.17E-06	7.98E-07	541	791	291	250	250	6.84E-07	6.84E-07	46
1950	7238	203	35066.31	0.012	203.8483	203.5	1.54E-06	2.28E-06	7.98E-07	562	833	291	271	271	7.41E-07	7.41E-07	48
1950	7238	204	35066.36	0.014	204.849	204.5	1.23E-06	1.57E-06	8.84E-07	448	572	323	125	125	3.42E-07	3.42E-07	28
1950	7238	206	35066.45	0.01	206.8504	206.5	-2.28E-07	3.71E-07	-8.27E-07	-83	135	-302	219	219	5.99E-07	5.99E-07	-262
1950	7238	207	35066.44	0.011	207.8511	207.5	-3.99E-07	2.28E-07	-1.03E-06	-146	83	-375	229	229	6.27E-07	6.27E-07	-157
1950	7238	208	35066.42	0.011	208.8517	208.5	-4.28E-07	2.00E-07	-1.06E-06	-156	73	-385	229	229	6.27E-07	6.27E-07	-147
1950	7238	209	35066.41	0.011	209.8524	209.5	-6.27E-07	-2.85E-08	-1.23E-06	-229	-10	-448	219	219	5.99E-07	5.99E-07	-95
1950	7238	210	35066.39	0.01	210.8531	210.5	-9.70E-07	-4.28E-07	-1.51E-06	-354	-156	-552	198	198	5.42E-07	5.42E-07	-56
1950	7238	211	35066.35	0.009	211.8538	211.5	3.14E-07	8.56E-07	-2.28E-07	114	312	-83	198	198	5.42E-07	5.42E-07	173
1950	7238	212	35066.36	0.01	212.8545	212.5	-8.56E-07	-2.57E-07	-1.45E-06	-312	-94	-531	219	219	5.99E-07	5.99E-07	-70
1950	7238	213	35066.33	0.011	213.8552	213.5	-1.11E-06	-4.56E-07	-1.77E-06	-406	-167	-645	239	239	6.56E-07	6.56E-07	-59
1950	7238	214	35066.3	0.012	214.8344	214.5	-1.25E-06	-5.42E-07	-1.97E-06	-458	-198	-718	260	260	7.13E-07	7.13E-07	-57
1950	7238	215	35066.25	0.013	215.8351	215.5	-1.31E-06	-6.27E-07	-2.00E-06	-479	-229	-729	250	250	6.84E-07	6.84E-07	-52
1950	7238	216	35066.21	0.011	216.8358	216.5	-1.94E-06	-1.34E-06	-2.54E-06	-708	-489	-926	219	219	5.99E-07	5.99E-07	-31
1950	7238	217	35066.14	0.01	217.92	217.5	-2.54E-06	-1.97E-06	-3.11E-06	-926	-718	-1135	208	208	5.70E-07	5.70E-07	-22
1950	7238	218	35066.05	0.01	218.8372	218.5	-2.45E-06	-1.85E-06	-3.05E-06	-895	-677	-1114	219	219	5.99E-07	5.99E-07	-24
1950	7238	219	35065.96	0.011	219.8379	219.5	-2.68E-06	-2.08E-06	-3.28E-06	-978	-760	-1197	219	219	5.99E-07	5.99E-07	-22
1950	7238	220	35065.87	0.01	220.8386	220.5	3.71E-07	9.70E-07	-2.28E-07	135	354	-83	219	219	5.99E-07	5.99E-07	162
1950	7238	221	35065.88	0.011	221.8392	221.5	-2.08E-06	-1.48E-06	-2.68E-06	-760	-541	-978	219	219	5.99E-07	5.99E-07	-29
1950	7238	222	35065.81	0.01	222.8399	222.5	-3.11E-06	-2.54E-06	-3.68E-06	-1135	-926	-1343	208	208	5.70E-07	5.70E-07	-18
1950	7238	223	35065.7	0.01	223.8406	223.5	-2.99E-06	-2.42E-06	-3.56E-06	-1093	-885	-1301	208	208	5.70E-07	5.70E-07	-19
1950	7238	224	35065.59	0.01	224.8413	224.5	-3.19E-06	-2.65E-06	-3.74E-06	-1166	-968	-1364	198	198	5.42E-07	5.42E-07	-17
1950	7238	225	35065.48	0.009	225.9255	225.5	-3.31E-06	-2.71E-06	-3.91E-06	-1207	-989	-1426	219	219	5.99E-07	5.99E-07	-18
1950	7238	226	35065.37	0.012	226.9262	226.5	-3.82E-06	-3.08E-06	-4.56E-06	-1395	-1124	-1665	271	271	7.41E-07	7.41E-07	-19
1950	7238	227	35065.23	0.014	227.9269	227.5	4.71E-07	8.70E-07	7.13E-08	172	317	26	146	146	3.99E-07	3.99E-07	85
1950	7238	229	35065.27	0.014	229.8448	229.5	-7.99E-07	-8.56E-08	-1.51E-06	-291	-31	-552	260	260	7.13E-07	7.13E-07	-89
1950	7238	230	35065.24	0.011	230.8455	230.5	-1.65E-06	-1.03E-06	-2.28E-06	-604	-375	-833	229	229	6.27E-07	6.27E-07	-38
1950	7238	231	35065.18	0.011	231.8462	231.5	-5.39E-06	-4.82E-06	-5.96E-06	-1967	-1759	-2176	208	208	5.70E-07	5.70E-07	-11
1950	7238	232	35064.99	0.009	232.1811	232.5	-2.25E-06	-1.68E-06	-2.82E-06	-822	-614	-1031	208	208	5.70E-07	5.70E-07	-25
1950	7238	233	35064.91	0.011	233.1818	233.5	-1.25E-06	-6.27E-07	-1.88E-06	-458	-229	-687	229	229	6.27E-07	6.27E-07	-50
1950	7238	234	35064.87	0.011	234.8483	234.5	-1.88E-06	-1.34E-06	-2.42E-06	-687	-489	-885	198	198	5.42E-07	5.42E-07	-29
1950	7238	235	35064.8	0.008	235.849	235.5	-2.57E-06	-2.08E-06	-3.05E-06	-937	-760	-1114	177	177	4.85E-07	4.85E-07	-19
1950	7238	236	35064.71	0.009	236.8497	236.5	-2.45E-06	-1.97E-06	-2.94E-06	-895	-718	-1072	177	177	4.85E-07	4.85E-07	-20
1950	7238	237	35064.63	0.008	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####

1950	7244	140	1433.843	0.012	140.9304	140.5	8.37E-06	2.37E-05	-6.97E-06	3055	8655	-2546	5600	5600	1.53E-05	1.53E-05	183
1950	7244	141	1433.855	0.01	141.9311	141.5	7.96E-06	8.20E-06	7.72E-06	2904	2991	2816	88	88	2.40E-07	2.40E-07	3
1950	7244	202	1434.551	0.011	202.8476	202.5	6.27E-06	2.30E-05	-1.05E-05	2290	8396	-3817	6106	6106	1.67E-05	1.67E-05	267
1950	7244	203	1434.56	0.013	203.8483	203.5	1.12E-05	2.93E-05	-6.97E-06	4071	10686	-2544	6615	6615	1.81E-05	1.81E-05	163
1950	7244	204	1434.576	0.013	204.849	204.5	6.97E-06	1.46E-05	-6.97E-07	2544	5343	-254	2799	2799	7.67E-06	7.67E-06	110
1950	7244	206	1434.596	0.009	206.8504	206.5	5.58E-06	1.88E-05	-7.67E-06	2035	6870	-2799	4834	4834	1.32E-05	1.32E-05	237
1950	7244	207	1434.604	0.01	207.8511	207.5	6.97E-06	2.02E-05	-6.27E-06	2544	7378	-2290	4834	4834	1.32E-05	1.32E-05	190
1950	7244	208	1434.614	0.009	208.8517	208.5	3.83E-05	5.16E-05	2.51E-05	13993	18827	9159	4834	4834	1.32E-05	1.32E-05	35
1950	7244	209	1434.669	0.01	209.8524	209.5	7.67E-06	2.16E-05	-6.27E-06	2799	7887	-2290	5088	5088	1.39E-05	1.39E-05	182
1950	7244	210	1434.68	0.01	210.8531	210.5	2.86E-05	4.25E-05	1.46E-05	10431	15519	5343	5088	5088	1.39E-05	1.39E-05	49
1950	7244	211	1434.721	0.01	211.8538	211.5	1.25E-05	2.65E-05	-1.39E-06	4579	9667	-509	5088	5088	1.39E-05	1.39E-05	111
1950	7244	212	1434.739	0.01	212.8545	212.5	3.48E-06	1.81E-05	-1.12E-05	1272	6614	-4070	5342	5342	1.46E-05	1.46E-05	420
1950	7244	213	1434.744	0.011	213.8552	213.5	9.76E-06	2.51E-05	-5.58E-06	3562	9158	-2035	5597	5597	1.53E-05	1.53E-05	157
1950	7244	214	1434.758	0.011	214.8344	214.5	1.46E-05	3.00E-05	-6.97E-07	5342	10939	-254	5597	5597	1.53E-05	1.53E-05	105
1950	7244	215	1434.779	0.011	215.8351	215.5	2.09E-05	3.48E-05	6.97E-06	7632	12720	2544	5088	5088	1.39E-05	1.39E-05	67
1950	7244	216	1434.809	0.009	216.8358	216.5	1.95E-05	3.07E-05	8.36E-06	7123	11193	3053	4070	4070	1.12E-05	1.12E-05	57
1950	7244	217	1434.837	0.007	217.92	217.5	1.74E-05	2.86E-05	6.27E-06	6360	10430	2289	4070	4070	1.12E-05	1.12E-05	64
1950	7244	218	1434.862	0.009	218.8372	218.5	1.60E-05	2.86E-05	3.48E-06	5851	10429	1272	4579	4579	1.25E-05	1.25E-05	78
1950	7244	219	1434.885	0.009	219.8379	219.5	1.25E-05	2.44E-05	6.97E-07	4579	8903	254	4324	4324	1.18E-05	1.18E-05	94
1950	7244	220	1434.903	0.008	220.8386	220.5	1.25E-05	2.44E-05	6.97E-07	4579	8903	254	4324	4324	1.18E-05	1.18E-05	94
1950	7244	221	1434.921	0.009	221.8392	221.5	9.76E-06	2.16E-05	-2.09E-06	3561	7885	-763	4324	4324	1.18E-05	1.18E-05	121
1950	7244	222	1434.935	0.008	222.8399	222.5	1.18E-05	2.37E-05	0.00E+00	4324	8648	0	4324	4324	1.18E-05	1.18E-05	100
1950	7244	223	1434.952	0.009	223.8406	223.5	1.67E-05	2.93E-05	4.18E-06	6105	10683	1526	4579	4579	1.25E-05	1.25E-05	75
1950	7244	224	1434.976	0.009	224.8413	224.5	1.32E-05	2.44E-05	2.09E-06	4833	8903	763	4070	4070	1.11E-05	1.11E-05	84
1950	7244	225	1434.995	0.007	225.9255	225.5	-2.79E-06	7.67E-06	-1.32E-05	-1017	2798	-4833	3815	3815	1.05E-05	1.05E-05	-375
1950	7244	226	1434.991	0.008	226.9262	226.5	3.21E-05	4.39E-05	2.02E-05	11700	16024	7376	4324	4324	1.18E-05	1.18E-05	37
1950	7244	227	1435.037	0.009	227.9269	227.5	1.71E-05	2.33E-05	1.08E-05	6231	8521	3942	2289	2289	6.27E-06	6.27E-06	37
1950	7244	229	1435.086	0.009	229.8448	229.5	1.05E-05	2.37E-05	-2.79E-06	3815	8648	-1017	4832	4832	1.32E-05	1.32E-05	127
1950	7244	230	1435.101	0.01	230.8455	230.5	2.23E-05	3.48E-05	9.76E-06	8139	12717	3561	4578	4578	1.25E-05	1.25E-05	56
1950	7244	231	1435.133	0.008	231.8462	231.5	2.79E-05	3.83E-05	1.74E-05	10173	13988	6358	3815	3815	1.05E-05	1.05E-05	38
1950	7244	232	1435.173	0.007	232.1811	232.5	1.18E-05	2.23E-05	1.39E-06	4323	8138	509	3815	3815	1.05E-05	1.05E-05	88
1950	7244	233	1435.19	0.008	233.1818	233.5	1.46E-05	2.58E-05	3.48E-06	5341	9410	1272	4069	4069	1.11E-05	1.11E-05	76
1950	7244	234	1435.211	0.008	234.8483	234.5	9.75E-06	2.09E-05	-1.39E-06	3560	7630	-509	4069	4069	1.11E-05	1.11E-05	114
1950	7244	235	1435.225	0.008	235.849	235.5	1.60E-05	2.72E-05	4.88E-06	5849	9918	1780	4069	4069	1.11E-05	1.11E-05	70
1950	7244	236	1435.248	0.008	236.8497	236.5	4.88E-06	1.53E-05	-5.57E-06	1780	5595	-2034	3815	3815	1.05E-05	1.05E-05	214
1950	7244	237	1435.255	0.007	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1951	1956	126	1221.905	0.007	126.8372	126.5	0.00E+00	1.15E-05	-1.15E-05	0	4182	-4182	4182	4182	1.15E-05	1.15E-05	0
1951	1956	127	1221.905	0.007	127.8379	127.5	-3.15E-07	6.30E-07	-1.26E-06	-115	230	-460	345	345	9.44E-07	9.44E-07	-300
1951	1956	140	1221.9	0.008	140.9304	140.5	2.46E-06	1.64E-05	-1.15E-05	896	5974	-4182	5078	5078	1.39E-05	1.39E-05	567
1951	1956	141	1221.903	0.009	141.9311	141.5	-5.11E-08	7.67E-07	-8.70E-07	-19	280	-317	299	299	8.18E-07	8.18E-07	-1600
1951	1956	157	1221.902	0.007	157.8372	157.5	-1.64E-06	1.15E-05	-1.47E-05	-597	4182	-5377	4779	4779	1.31E-05	1.31E-05	-800
1951	1956	158	1221.9	0.009	158.8379	158.5	8.18E-07	1.47E-05	-1.31E-05	299	5377	-4779	5078	5078	1.39E-05	1.39E-05	1700
1951	1956	159	1221.901	0.008	159.8386	159.5	8.18E-07	1.39E-05	-1.23E-05	299	5078	-4481	4779	4779	1.31E-05	1.31E-05	1600
1951	1956	160	1221.902	0.008	160.8392	160.5	0.00E+00	1.31E-05	-1.31E-05	0	4779	-4779	4779	4779	1.31E-05	1.31E-05	0
1951	1956	161	1221.902	0.008	161.8399	161.5	2.12E-06	2.50E-06	1.75E-06	775	912	638	137	137	3.76E-07	3.76E-07	18
1951	1956	198	1221.998	0.009	198.8448	198.5	7.36E-06	2.37E-05	-9.00E-06	2688	8662	-3286	5974	5974	1.64E-05	1.64E-05	222
1951	1956	199	1222.007	0.011	199.8455	199.5	1.06E-05	2.86E-05	-7.36E-06	3883	10454	-2688	6571	6571	1.80E-05	1.80E-05	169
1951	1956	200	1222.02	0.011	200.8462	200.5	3.27E-06	2.05E-05	-1.39E-05	1195	7467	-5078	6272	6272	1.72E-05	1.72E-05	525
1951	1956	201	1222.024	0.01	201.8469	201.5	0.00E+00	1.72E-05	-1.72E-05	0	6272	-6272	6272	6272	1.72E-05	1.72E-05	0
1951	1956	202	1222.024	0.011	202.8476	202.5	4.09E-06	2.13E-05	-1.31E-05	1493	7766	-4779	6272	6272	1.72E-05	1.72E-05	420
1951	1956	203	1222.029	0.01	203.8483	203.5	5.73E-06	2.21E-05	-1.06E-05	2091	8064	-3883	5974	5974	1.64E-05	1.64E-05	286
1951	1956	204	1222.036	0.01	204.849	204.5	-3.68E-06	4.50E-06	-1.19E-05	-1344	1643	-4331	2987	2987	8.18E-06	8.18E-06	-222
1951	1956	206	1222.027	0.01	206.8504	206.5	8.18E-07	1.80E-05	-1.64E-05	299	6571	-5974	6272	6272	1.72E-05	1.72E-05	2100
1951	1956	207	1222.028	0.011	207.8511	207.5	4.09E-06	2.21E-05	-1.39E-05	1493	8064	-5078	6571	6571	1.80E-05	1.80E-05	440
1951	1956	208	1222.033	0.011	208.8517	208.5	4.09E-06	2.13E-05	-1.31E-05	1493	7766	-4779	6272	6272	1.72E-05	1.72E-05	420
1951	1956	209	1222.038	0.01	209.8524	209.5	2.45E-06	1.80E-05	-1.31E-05	896	6571	-4779	5675	5675	1.55E-05	1.55E-05	633
1951	1956	210	1222.041	0.009	210.8531	210.5	7.36E-06	2.29E-05	-8.18E-06	2688	8363	-2987	5675	5675	1.55E-05	1.55E-05	211
1951	1956	211	1222.05	0.01	211.8538	211.5	-5.73E-06	1.06E-05	-2.21E-05	-2091	3883	-8064	5974	5974	1.64E-05	1.64E-05	-286
1951	1956	212	1222.043	0.01	212.8545	212.5	4.91E-06	2.13E-05	-1.15E-05	1792	7766	-4182	5974	5974	1.64E-05	1.64E-05	333
1951	1956	213	1222.049	0.01	213.8552	213.5	1.15E-05	2.86E-05	-5.73E-06	4181	10454	-2091	6272	6272	1.72E-05	1.72E-05	150
1951	1956	214	1222.063	0.011	214.8344	214.5	0.00E+00	1.88E-05	-1.88E-05	0	6870	-6870	6870	6870	1.88E-05	1.88E-05	0
1951	1956	215	1222.063	0.012	215.8351	215.5	5.73E-06	2.45E-05	-1.31E-05	2091	8960	-4779	6870	6870	1.88E-05	1.88E-05	329
1951	1956	216	1222.07	0.011	216.8358	216.5	2.45E-06	1.96E-05	-1.47E-05	896	7168	-5376	6272	6272	1.72E-05	1.72E-05	700
1951	1956	217	1222.073	0.01	217.92	217.5	-6.55E-06	9.00E-06	-2.21E-05	-2389	3285	-8064	5675	5675	1.55E-05	1.55E-05	-238
1951	1956	218	1222.065	0.009	218.8372	218.5	4.91E-06	2.05E-05	-1.06E-05	1792	7467	-3883	5675	5675	1.55E-05	1.55E-05	317
1951	1956	219	1222.071	0.01	219.8379	219.5	4.09E-06	1.96E-05	-1.15E-05	1493	7168	-4181	5675	5675	1.55E-05	1.55E-05	380
1951	1956	220	1222.076	0.009	220.8386	220.5	-1.47E-05	1.64E-06	-3.11E-05	-5376	597	-11350	5973	5973	1.64E-05	1.64E-05	-111
1951	1956	221	1222.058	0.011	221.8392	221.5	3.27E-06	2.05E-05	-1.39E-05	1195	7467	-5077	6272	6272	1.72E-05	1.72E-05	525
1951	1956	222	1222.062	0.01	222.8399	222.5	7.36E-06	2.29E-05	-8.18E-06	2688	8363	-2987	5675	5675	1.55E-05	1.55E-05	211
1951	1956	223	1222.071	0.009	223.8406	223.5	5.73E-06	1.96E-05	-8.18E-06	2091	7168	-2987	5077	5077	1.39E-05	1.39E-05	243
1951	1956	224	1222.078	0.008	224.8413	224.5	1.64E-06	1.47E-05	-1.15E-05	597	5376	-4181	4779	4779	1.31E-05	1.31E-05	800
1951	1956	225	1222.08	0.008	225.9255	225.5	4.09E-06	1.88E-05	-1.06E-05	1493	6869	-3883	5376	5376	1.47E-05	1.47E-05	360
1951	1956	226	1222.085	0.01	226.9262	226.5	2.45E-06	1.96E-05	-1.47E-05	896	7168	-5376	6272	6272	1.72E-05	1.72E-05	700
1951	1956	227	1222.088	0.011	227.9269	227.5	3.68E-06	1.31E-05	-5.73E-06	1344	4779	-2091	3435	3435	9.41E-06	9.41E-06	256
1951	1956	229	1222.097	0.012	229.8448	229.5	-3.27E-06	1.55E-05	-2.21E-05	-1195	5675	-8064	6869	6869	1.88E-05	1.88E-05	-575
1951	1956	230	1222.093	0.011	230.8455	230.5	-8.18E-07	1.64E-05	-1.80E-05	-299	5973	-6571	6272	6272	1.72E-05	1.72E-05	-2100
1951	1956	231	1222.092	0.01	231.8462	231.5	6.55E-06	2.13E-05	-8.18E-06	2389	7765	-2987	5376	5376	1.47E-05	1.47E-05	225
1951	1956	232	1222.1	0.008	232.1811	232.5	6.55E-06	2.05E-05	-7.36E-06	2389	7467	-2688	5077	5077	1.39E-05	1.39E-05	212
1951	1956	233	1222.108	0.009	233.1818	233.5	2.45E-06	1.80E-05	-1.31E-05	896	6571	-4779	5675	5675	1.55E-05	1.55E-05	633
1951	1956	234	1222.111	0.01	234.8483	234.5	4.91E-06	2.05E-05	-1.06E-05	1792	7467	-3883	5675	5675	1.55E-05	1.55E-05	317
1951	1956	235	1222.117	0.009	235.849	235.5	2.45E-06	1.72E-05	-1.23E-05	896	6272	-4480	5376	5376	1.47E-05	1.47E-05	600
1951	1956	236	1222.12	0.009	236.8497	236.5	3.27E-06	1.80E-05	-1.15E-05	1195	6571	-4181	5376	5376	1.47E-05	1.47E-05	450
1951	1956	237	1222.124	0.009	237.8504	237.5	1.34E-06	2.07E-06	6.03E-07	487	755	220	267	267	7.32E-07	7.32E-07	55
1951	1956	256	1222.155	0.008	256.842	256.5	-1.64E-06	1.23E-05	-1.55E-05	-597	4480	-5674	5077	5077	1.39E-05	1.39E-05	-850
1951	1956	257	1222.153	0.009	257.8427	257.5	0.00E+00	1.47E-05	-1.47E-05	0	5376	-5376	5376	5376	1.47E-05	1.47E-05	0
1951	1956	258	1222.153	0.009	258.8434	258.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1951	1957	140	37506.9	0.01	140.9304	140.5	-2.99E-06	-2.40E-06	-3.57E-06	-1090	-876	-1304	214	214	5.87E-07	5.87E-07	-20
1951	1957	141	37506.79	0.012	141.9311	141.5	-2.74E-06	-2.73E-06	-2.76E-06	-1002	-998	-1006	4	4	1.09E-08	1.09E-08	0
1951	1957	202	37500.51	0.013	202.8476	202.5	-4.27E-07	2.67E-07	-1.12E-06	-156	97	-409	253	253	6.93E-07	6.93E-07	-163
1951	1957	203	37500.49	0.013	203.8483	203.5	1.33E-07	7.73E-07	-5.07E-07	49	282	-185	234	234	6.40E-07	6.40E-07	480
1951	1957	204	37500.5	0.011	204.849	204.5	-4.80E-07	-2.00E-07	-7.60E-07	-175	-73	-277	102	102	2.80E-07	2.80E-07	-58
1951	1957	206	37500.46	0.01	206.8504	206.5	-1.81E-06	-1.25E-06	-2.37E-06	-662	-457	-866	204	204	5.60E-07	5.60E-07	-31
1951	1957	207	37500.39	0.011	207.8511	207.5	-1.81E-06	-1.25E-06	-2.37E-06	-662	-457	-866	204	204	5.60E-07	5.60E-07	-31
1951	1957	208	37500.33	0.01	208.8517	208.5	-1.44E-06	-8.80E-07	-2.00E-06	-526	-321	-730	204	204	5.60E-07	5.60E-07	-39
1951	1957	209	37500.27	0.011	209.8524	209.5	-1.68E-06	-1.15E-06	-2.21E-06	-613	-419	-808	195	195	5.33E-07	5.33E-07	-32
1951	1957	210	37500.21	0.009	210.8531	210.5	-2.19E-06	-1.71E-06	-2.67E-06	-798	-623	-973	175	175	4.80E-07	4.80E-07	-22
1951	1957	211	37500.13	0.009	211.8538	211.5	-1.07E-06	-5.87E-07	-1.55E-06	-389	-214	-565	175	175	4.80E-07	4.80E-07	-45
1951	1957	212	37500.09	0.009	212.8545	212.5	-1.65E-06	-1.12E-06	-2.19E-06	-603	-409	-798	195	195	5.33E-07	5.33E-07	-32
1951	1957	213	37500.03	0.011	213.8552	213.5	-1.76E-06	-1.15E-06	-2.37E-06	-642	-419	-866	224	224	6.13E-07	6.13E-07	-35
1951	1957	214	37499.96	0.012	214.8344	214.5	-1.79E-06	-1.15E-06	-2.43E-06	-652	-419	-886	234	234	6.40E-07	6.40E-07	-36
1951	1957	215	37499.89	0.012	215.8351	215.5	-2.05E-06	-1.44E-06	-2.67E-06	-749	-526	-973	224	224	6.13E-07	6.13E-07	-30
1951	1957	216	37499.82	0.011	216.8358	216.5	-2.72E-06	-2.13E-06	-3.31E-06	-993	-779	-1207	214	214	5.87E-07	5.87E-07	-22
1951	1957	217	37499.71	0.011	217.92	217.5	-3.28E-06	-2.72E-06	-3.84E-06	-1197	-993	-1402	204	204	5.60E-07	5.60E-07	-17
1951	1957	218	37499.59	0.01	218.8372	218.5	-3.01E-06	-2.48E-06	-3.55E-06	-1100	-905	-1295	195	195	5.33E-07	5.33E-07	-18
1951	1957	219	37499.48	0.01	219.8379	219.5	-2.96E-06	-2.43E-06	-3.49E-06	-1080	-886	-1275	195	195	5.33E-07	5.33E-07	-18
1951	1957	220	37499.37	0.01	220.8386	220.5	-1.76E-06	-1.20E-06	-2.32E-06	-642	-438	-847	204	204	5.60E-07	5.60E-07	-32
1951	1957	221	37499.3	0.011	221.8392	221.5	-2.43E-06	-1.84E-06	-3.01E-06	-886	-672	-1100	214	214	5.87E-07	5.87E-07	-24
1951	1957	222	37499.21	0.011	222.8399	222.5	-3.20E-06	-2.64E-06	-3.76E-06	-1168	-964	-1372	204	204	5.60E-07	5.60E-07	-17
1951	1957	223	37499.09	0.01	223.8406	223.5	-3.23E-06	-2.67E-06	-3.79E-06	-1178	-973	-1382	204	204	5.60E-07	5.60E-07	-17
1951	1957	224	37498.97	0.011	224.8413	224.5	-3.57E-06	-3.04E-06	-4.11E-06	-1304	-1110	-1499	195	195	5.33E-07	5.33E-07	-15
1951	1957	225	37498.83	0.009	225.9255	225.5	-4.83E-06	-4.27E-06	-5.39E-06	-1762	-1557	-1966	204	204	5.60E-07	5.60E-07	-12
1951	1957	226	37498.65	0.012	226.9262	226.5	-4.03E-06	-3.33E-06	-4.72E-06	-1470	-1217	-1723	253	253	6.93E-07	6.93E-07	-17
1951	1957	227	37498.5	0.014	227.9269	227.5	-5.73E-07	-2.00E-07	-9.47E-07	-209	-73	-346	136	136	3.73E-07	3.73E-07	-65
1951	1957	229	37498.46	0.014	229.8448	229.5	-1.92E-06	-1.17E-06	-2.67E-06	-701	-428	-973	273	273	7.47E-07	7.47E-07	-39
1951	1957	230	37498.39	0.014	230.8455	230.5	-2.51E-06	-1.84E-06	-3.17E-06	-915	-672	-1158	243	243	6.67E-07	6.67E-07	-27
1951	1957	231	37498.29	0.011	231.8462	231.5	-5.97E-06	-5.44E-06	-6.51E-06	-2180	-1986	-2375	195	195	5.33E-07	5.33E-07	-9
1951	1957	232	37498.07	0.009	232.1811	232.5	-2.69E-06	-2.19E-06	-3.20E-06	-983	-798	-1168	185	185	5.07E-07	5.07E-07	-19
1951	1957	233	37497.97	0.01	233.1818	233.5	-1.52E-06	-9.60E-07	-2.08E-06	-555	-350	-759	204	204	5.60E-07	5.60E-07	-37
1951	1957	234	37497.91	0.011	234.8483	234.5	-2.37E-06	-1.81E-06	-2.93E-06	-866	-662	-1071	204	204	5.60E-07	5.60E-07	-24
1951	1957	235	37497.82	0.01	235.849	235.5	-2.93E-06	-2.37E-06	-3.49E-06	-1071	-866	-1275	204	204	5.60E-07	5.60E-07	-19
1951	1957	236	37497.71	0.011	236.8497	236.5	-2.88E-06	-2.35E-06	-3.41E-06	-1051	-857	-1246	195	195	5.33E-07	5.33E-07	-19
1951	1957	237	37497.6	0.009	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1951	1962	140	60479.42	0.014	140.9304	140.5	-2.33E-06	-1.87E-06	-2.79E-06	-851	-682	-1020	169	169	4.63E-07	4.63E-07	-20
1951	1962	141	60479.28	0.014	141.9311	141.5	-2.32E-06	-2.29E-06	-2.34E-06	-846	-836	-856	10	10	2.79E-08	2.79E-08	-1
1951	1962	157	60477.03	0.013	157.8372	157.5	-2.22E-06	-1.79E-06	-2.65E-06	-809	-652	-966	157	157	4.30E-07	4.30E-07	-19
1951	1962	158	60476.9	0.013	158.8379	158.5	-2.35E-06	-1.92E-06	-2.78E-06	-857	-700	-1014	157	157	4.30E-07	4.30E-07	-18
1951	1962	159	60476.76	0.013	159.8386	159.5	-2.27E-06	-1.85E-06	-2.68E-06	-827	-676	-978	151	151	4.13E-07	4.13E-07	-18
1951	1962	160	60476.62	0.012	160.8392	160.5	-2.35E-06	-1.95E-06	-2.74E-06	-857	-712	-1002	145	145	3.97E-07	3.97E-07	-17
1951	1962	161	60476.48	0.012	161.8399	161.5	-2.05E-06	-2.03E-06	-2.07E-06	-749	-742	-757	7	7	2.05E-08	2.05E-08	-1
1962	1951	180	60473.87	0.014	180.8531	180.5	-2.23E-06	-1.79E-06	-2.68E-06	-815	-652	-978	163	163	4.46E-07	4.46E-07	-20
1962	1951	181	60473.74	0.013	181.8538	181.5	-2.23E-06	-1.29E-05	-1.38E-05	-813	-4720	-5034	-3907	4221	-1.07E-05	1.16E-05	481
1962	1951	187	60472.93	0.013	187.8372	187.5	-2.23E-06	-1.80E-06	-2.66E-06	-815	-658	-972	157	157	4.30E-07	4.30E-07	-19
1962	1951	188	60472.79	0.013	188.8379	188.5	-2.32E-06	-1.87E-06	-2.76E-06	-845	-682	-1008	163	163	4.46E-07	4.46E-07	-19
1962	1951	189	60472.65	0.014	189.8386	189.5	-1.98E-06	-1.74E-05	-1.83E-05	-722	-6338	-6664	-5615	5941	-1.54E-05	1.63E-05	777
1951	1962	198	60471.58	0.013	198.8448	198.5	-2.08E-06	-1.64E-06	-2.53E-06	-761	-598	-923	163	163	4.46E-07	4.46E-07	-21
1951	1962	199	60471.45	0.014	199.8455	199.5	-1.70E-06	-1.21E-06	-2.20E-06	-622	-441	-803	181	181	4.96E-07	4.96E-07	-29
1951	1962	200	60471.35	0.016	200.8462	200.5	-1.21E-06	-7.28E-07	-1.69E-06	-441	-266	-616	175	175	4.80E-07	4.80E-07	-40
1951	1962	201	60471.27	0.013	201.8469	201.5	4.46E-07	8.93E-07	0.00E+00	163	326	0	163	163	4.46E-07	4.46E-07	100
1951	1962	202	60471.3	0.014	202.8476	202.5	-8.60E-07	-4.13E-07	-1.31E-06	-314	-151	-477	163	163	4.46E-07	4.46E-07	-52
1951	1962	203	60471.25	0.013	203.8483	203.5	-2.48E-07	1.82E-07	-6.78E-07	-91	66	-247	157	157	4.30E-07	4.30E-07	-173
1951	1962	204	60471.23	0.013	204.849	204.5	-8.85E-07	-6.78E-07	-1.09E-06	-323	-247	-398	75	75	2.07E-07	2.07E-07	-23
1951	1962	206	60471.13	0.012	206.8504	206.5	-1.67E-06	-1.26E-06	-2.08E-06	-610	-459	-761	151	151	4.13E-07	4.13E-07	-25
1951	1962	207	60471.03	0.013	207.8511	207.5	-1.62E-06	-1.21E-06	-2.03E-06	-592	-441	-742	151	151	4.13E-07	4.13E-07	-26
1951	1962	208	60470.93	0.012	208.8517	208.5	-1.24E-06	-8.27E-07	-1.65E-06	-453	-302	-604	151	151	4.13E-07	4.13E-07	-33
1951	1962	209	60470.85	0.013	209.8524	209.5	-1.52E-06	-1.12E-06	-1.92E-06	-555	-410	-700	145	145	3.97E-07	3.97E-07	-26
1951	1962	210	60470.76	0.011	210.8531	210.5	-1.70E-06	-1.34E-06	-2.07E-06	-622	-489	-754	133	133	3.64E-07	3.64E-07	-21
1951	1962	211	60470.66	0.011	211.8538	211.5	-9.76E-07	-5.95E-07	-1.36E-06	-356	-217	-495	139	139	3.80E-07	3.80E-07	-39
1951	1962	212	60470.6	0.012	212.8545	212.5	-1.39E-06	-9.76E-07	-1.80E-06	-507	-356	-658	151	151	4.13E-07	4.13E-07	-30
1951	1962	213	60470.52	0.013	213.8552	213.5	-1.42E-06	-9.76E-07	-1.87E-06	-519	-356	-682	163	163	4.46E-07	4.46E-07	-31
1951	1962	214	60470.43	0.014	214.8344	214.5	-1.62E-06	-1.14E-06	-2.10E-06	-592	-416	-767	175	175	4.80E-07	4.80E-07	-30
1951	1962	215	60470.33	0.015	215.8351	215.5	-1.54E-06	-1.04E-06	-2.03E-06	-561	-380	-742	181	181	4.96E-07	4.96E-07	-32
1951	1962	216	60470.24	0.015	216.8358	216.5	-1.85E-06	-1.42E-06	-2.28E-06	-676	-519	-833	157	157	4.30E-07	4.30E-07	-23
1951	1962	217	60470.13	0.011	217.92	217.5	-1.67E-06	-1.29E-06	-2.05E-06	-610	-471	-748	139	139	3.80E-07	3.80E-07	-23
1951	1962	218	60470.03	0.012	218.8372	218.5	-2.33E-06	-1.93E-06	-2.73E-06	-851	-706	-996	145	145	3.97E-07	3.97E-07	-17
1951	1962	219	60469.88	0.012	219.8379	219.5	-1.97E-06	-1.55E-06	-2.38E-06	-718	-567	-869	151	151	4.13E-07	4.13E-07	-21
1951	1962	220	60469.77	0.013	220.8386	220.5	-1.52E-06	-1.06E-06	-1.98E-06	-555	-386	-724	169	169	4.63E-07	4.63E-07	-30
1951	1962	221	60469.67	0.015	221.8392	221.5	-1.17E-06	-7.28E-07	-1.62E-06	-429	-266	-592	163	163	4.47E-07	4.47E-07	-38
1951	1962	222	60469.6	0.012	222.8399	222.5	-2.58E-06	-2.18E-06	-2.98E-06	-942	-797	-1086	145	145	3.97E-07	3.97E-07	-15
1951	1962	223	60469.45	0.012	223.8406	223.5	-2.43E-06	-2.02E-06	-2.84E-06	-887	-736	-1038	151	151	4.13E-07	4.13E-07	-17
1951	1962	224	60469.3	0.013	224.8413	224.5	-2.35E-06	-1.95E-06	-2.75E-06	-857	-712	-1002	145	145	3.97E-07	3.97E-07	-17
1951	1962	225	60469.16	0.011	225.9255	225.5	-2.36E-06	-2.00E-06	-2.73E-06	-863	-730	-996	133	133	3.64E-07	3.64E-07	-15
1951	1962	226	60469.01	0.011	226.9262	226.5	-1.69E-06	-1.24E-06	-2.13E-06	-616	-453	-779	163	163	4.47E-07	4.47E-07	-26
1951	1962	227	60468.91	0.016	227.9269	227.5	-4.47E-07	-1.49E-07	-7.44E-07	-163	-54	-272	109	109	2.98E-07	2.98E-07	-67
1951	1962	229	60468.86	0.02	229.8448	229.5	-1.06E-06	-4.30E-07	-1.69E-06	-386	-157	-616	229	229	6.28E-07	6.28E-07	-59
1951	1962	230	60468.79	0.018	230.8455	230.5	-1.85E-06	-1.31E-06	-2.40E-06	-676	-477	-875	199	199	5.46E-07	5.46E-07	-29
1951	1962	231	60468.68	0.015	231.8462	231.5	-2.81E-06	-2.36E-06	-3.26E-06	-1026	-863	-1189	163	163	4.47E-07	4.47E-07	-16
1951	1962	232	60468.51	0.012	232.1811	232.5	-2.18E-06	-1.74E-06	-2.63E-06	-797	-634	-960	163	163	4.47E-07	4.47E-07	-20
1951	1962	233	60468.38	0.015	233.1818	233.5	-1.11E-06	-6.45E-07	-1.57E-06	-404	-235	-573	169	169	4.63E-07	4.63E-07	-42
1951	1962	234	60468.31	0.013	234.8483	234.5	-2.27E-06	-1.82E-06	-2.71E-06	-827	-664	-990	163	163	4.47E-07	4.47E-07	-20
1951	1962	235	60468.18	0.014	235.849	235.5	-2.28E-06	-1.84E-06	-2.73E-06	-833	-670	-996	163	163	4.47E-07	4.47E-07	-20
1951	1962	236	60468.04	0.013	236.8497	236.5	-2.40E-06	-1.97E-06	-2.83E-06	-875	-718	-1032	157	157	4.30E-07	4.30E-07	-18
1951	1962	237	60467.89	0.013	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####

1951	7238	126	1732.23	0.009	126.8372	126.5	-6.93E-06	3.46E-06	-1.73E-05	-2529	1264	-6321	3793	3793	1.04E-05	1.04E-05	-150
1951	7238	127	1732.218	0.009	127.8379	127.5	-7.46E-06	-6.62E-06	-8.30E-06	-2723	-2415	-3031	308	308	8.44E-07	8.44E-07	-11
1951	7238	140	1732.05	0.01	140.9304	140.5	-7.51E-06	5.20E-06	-2.02E-05	-2740	1897	-7376	4636	4636	1.27E-05	1.27E-05	-169
1951	7238	141	1732.037	0.012	141.9311	141.5	-6.86E-06	-6.10E-06	-7.61E-06	-2503	-2226	-2779	277	277	7.58E-07	7.58E-07	-11
1951	7238	157	1731.847	0.009	157.8372	157.5	-6.35E-06	4.62E-06	-1.73E-05	-2318	1686	-6323	4004	4004	1.10E-05	1.10E-05	-173
1951	7238	158	1731.836	0.01	158.8379	158.5	-6.93E-06	4.04E-06	-1.79E-05	-2529	1475	-6534	4004	4004	1.10E-05	1.10E-05	-158
1951	7238	159	1731.824	0.009	159.8386	159.5	-5.77E-06	4.62E-06	-1.62E-05	-2108	1686	-5901	3794	3794	1.04E-05	1.04E-05	-180
1951	7238	160	1731.814	0.009	160.8392	160.5	-7.51E-06	2.89E-06	-1.79E-05	-2740	1054	-6534	3794	3794	1.04E-05	1.04E-05	-138
1951	7238	161	1731.801	0.009	161.8399	161.5	-5.31E-06	-5.03E-06	-5.59E-06	-1937	-1834	-2039	103	103	2.81E-07	2.81E-07	-5
1951	7238	198	1731.461	0.009	198.8448	198.5	-3.47E-06	6.93E-06	-1.39E-05	-1265	2530	-5059	3794	3794	1.04E-05	1.04E-05	-300
1951	7238	199	1731.455	0.009	199.8455	199.5	-7.51E-06	4.04E-06	-1.91E-05	-2740	1476	-6957	4216	4216	1.16E-05	1.16E-05	-154
1951	7238	200	1731.442	0.011	200.8462	200.5	2.31E-06	1.44E-05	-9.82E-06	843	5270	-3584	4427	4427	1.21E-05	1.21E-05	525
1951	7238	201	1731.446	0.01	201.8469	201.5	0.00E+00	1.21E-05	-1.21E-05	0	4427	-4427	4427	4427	1.21E-05	1.21E-05	0
1951	7238	202	1731.446	0.011	202.8476	202.5	-2.14E-05	-8.66E-06	-3.41E-05	-7800	-3162	-12438	4638	4638	1.27E-05	1.27E-05	-59
1951	7238	203	1731.409	0.011	203.8483	203.5	-1.56E-05	-2.89E-06	-2.83E-05	-5692	-1054	-10330	4638	4638	1.27E-05	1.27E-05	-81
1951	7238	204	1731.382	0.011	204.849	204.5	-1.82E-05	-1.21E-05	-2.43E-05	-6641	-4427	-8854	2214	2214	6.06E-06	6.06E-06	-33
1951	7238	206	1731.319	0.01	206.8504	206.5	-1.62E-05	-4.04E-06	-2.83E-05	-5903	-1476	-10330	4427	4427	1.21E-05	1.21E-05	-75
1951	7238	207	1731.291	0.011	207.8511	207.5	-7.51E-06	4.62E-06	-1.96E-05	-2741	1687	-7168	4427	4427	1.21E-05	1.21E-05	-162
1951	7238	208	1731.278	0.01	208.8517	208.5	-8.09E-06	3.47E-06	-1.96E-05	-2952	1265	-7168	4217	4217	1.16E-05	1.16E-05	-143
1951	7238	209	1731.264	0.01	209.8524	209.5	-8.09E-06	2.89E-06	-1.91E-05	-2952	1054	-6957	4006	4006	1.10E-05	1.10E-05	-136
1951	7238	210	1731.25	0.009	210.8531	210.5	-9.82E-06	5.78E-07	-2.02E-05	-3584	211	-7379	3795	3795	1.04E-05	1.04E-05	-106
1951	7238	211	1731.233	0.009	211.8538	211.5	-1.16E-05	-1.16E-06	-2.19E-05	-4217	-422	-8012	3795	3795	1.04E-05	1.04E-05	-90
1951	7238	212	1731.213	0.009	212.8545	212.5	-2.31E-06	9.24E-06	-1.39E-05	-843	3373	-5060	4217	4217	1.16E-05	1.16E-05	-500
1951	7238	213	1731.209	0.011	213.8552	213.5	5.78E-07	1.33E-05	-1.21E-05	211	4849	-4428	4638	4638	1.27E-05	1.27E-05	2200
1951	7238	214	1731.21	0.011	214.8344	214.5	-5.20E-06	8.09E-06	-1.85E-05	-1898	2952	-6747	4849	4849	1.33E-05	1.33E-05	-256
1951	7238	215	1731.201	0.012	215.8351	215.5	-6.35E-06	7.51E-06	-2.02E-05	-2319	2741	-7379	5060	5060	1.39E-05	1.39E-05	-218
1951	7238	216	1731.19	0.012	216.8358	216.5	-8.09E-06	4.62E-06	-2.08E-05	-2952	1687	-7590	4638	4638	1.27E-05	1.27E-05	-157
1951	7238	217	1731.176	0.01	217.92	217.5	-2.31E-06	8.66E-06	-1.33E-05	-843	3163	-4849	4006	4006	1.10E-05	1.10E-05	-475
1951	7238	218	1731.172	0.009	218.8372	218.5	-5.78E-06	5.20E-06	-1.68E-05	-2108	1898	-6114	4006	4006	1.10E-05	1.10E-05	-190
1951	7238	219	1731.162	0.01	219.8379	219.5	-1.16E-06	1.04E-05	-1.27E-05	-422	3795	-4639	4217	4217	1.16E-05	1.16E-05	-1000
1951	7238	220	1731.16	0.01	220.8386	220.5	-3.06E-05	-1.79E-05	-4.33E-05	-11175	-6536	-15813	4639	4639	1.27E-05	1.27E-05	-42
1951	7238	221	1731.107	0.012	221.8392	221.5	3.47E-06	1.62E-05	-9.24E-06	1265	5904	-3374	4639	4639	1.27E-05	1.27E-05	367
1951	7238	222	1731.113	0.01	222.8399	222.5	2.89E-06	1.44E-05	-8.66E-06	1054	5271	-3163	4217	4217	1.16E-05	1.16E-05	400
1951	7238	223	1731.118	0.01	223.8406	223.5	5.78E-07	1.16E-05	-1.04E-05	211	4217	-3795	4006	4006	1.10E-05	1.10E-05	1900
1951	7238	224	1731.119	0.009	224.8413	224.5	5.78E-07	1.10E-05	-9.82E-06	211	4006	-3584	3795	3795	1.04E-05	1.04E-05	1800
1951	7238	225	1731.12	0.009	225.9255	225.5	-6.35E-06	5.78E-06	-1.85E-05	-2319	2108	-6747	4428	4428	1.21E-05	1.21E-05	-191
1951	7238	226	1731.109	0.012	226.9262	226.5	3.47E-06	1.73E-05	-1.04E-05	1265	6325	-3795	5060	5060	1.39E-05	1.39E-05	400
1951	7238	227	1731.115	0.012	227.9269	227.5	-1.36E-05	-6.07E-06	-2.11E-05	-4955	-2214	-7696	2741	2741	7.51E-06	7.51E-06	-55
1951	7238	229	1731.068	0.014	229.8448	229.5	-7.51E-06	8.67E-06	-2.37E-05	-2741	3163	-8645	5904	5904	1.62E-05	1.62E-05	-215
1951	7238	230	1731.055	0.014	230.8455	230.5	-1.04E-05	4.62E-06	-2.54E-05	-3795	1687	-9278	5482	5482	1.50E-05	1.50E-05	-144
1951	7238	231	1731.037	0.012	231.8462	231.5	-4.04E-06	7.51E-06	-1.56E-05	-1476	2741	-5693	4217	4217	1.16E-05	1.16E-05	-286
1951	7238	232	1731.03	0.008	232.1811	232.5	-4.62E-06	5.78E-06	-1.50E-05	-1687	2109	-5482	3795	3795	1.04E-05	1.04E-05	-225
1951	7238	233	1731.022	0.01	233.1818	233.5	-5.78E-07	1.16E-05	-1.27E-05	-211	4217	-4639	4428	4428	1.21E-05	1.21E-05	-2100
1951	7238	234	1731.021	0.011	234.8483	234.5	-2.31E-06	9.82E-06	-1.44E-05	-843	3585	-5271	4428	4428	1.21E-05	1.21E-05	-525
1951	7238	235	1731.017	0.01	235.849	235.5	-2.31E-06	9.24E-06	-1.39E-05	-843	3374	-5061	4217	4217	1.16E-05	1.16E-05	-500
1951	7238	236	1731.013	0.01	236.8497	236.5	-3.47E-06	8.67E-06	-1.56E-05	-1265	3163	-5693	4428	4428	1.21E-05	1.21E-05	-350
1951	7238	237	1731.007	0.011	237.8504	237.5	-4.62E-06	-4.01E-06	-5.23E-06	-1687	-1465	-1909	222	222	6.08E-07	6.08E-07	-13
1951	7238	256	1730.855	0.009	256.842	256.5	-6.93E-06	4.04E-06	-1.79E-05	-2531	1476	-6537	4007	4007	1.10E-05	1.10E-05	-158
1951	7238	257	1730.843	0.01	257.8427	257.5	-1.73E-06	9.24E-06	-1.27E-05	-633	3374	-4639	4007	4007	1.10E-05	1.10E-05	-633
1951	7238	258	1730.84	0.009	258.8434	258.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1951	7244	140	36125.94	0.011	140.9304	140.5	-3.13E-06	-2.49E-06	-3.76E-06	-1142	-909	-1374	232	232	6.37E-07	6.37E-07	-20
1951	7244	141	36125.82	0.012	141.9311	141.5	-2.95E-06	-2.94E-06	-2.96E-06	-1076	-1072	-1080	4	4	1.13E-08	1.13E-08	0
1951	7244	200	36119.54	0.012	200.8462	200.5	-1.02E-06	-3.60E-07	-1.69E-06	-374	-131	-616	243	243	6.64E-07	6.64E-07	-65
1951	7244	201	36119.5	0.012	201.8469	201.5	1.52E-06	2.24E-06	8.03E-07	556	819	293	263	263	7.20E-07	7.20E-07	47
1951	7244	202	36119.56	0.014	202.8476	202.5	-3.60E-07	4.15E-07	-1.14E-06	-131	152	-414	283	283	7.75E-07	7.75E-07	-215
1951	7244	203	36119.54	0.014	203.8483	203.5	-2.77E-08	6.64E-07	-7.20E-07	-10	243	-263	253	253	6.92E-07	6.92E-07	-2500
1951	7244	204	36119.54	0.011	204.849	204.5	-4.43E-07	-1.52E-07	-7.34E-07	-162	-56	-268	106	106	2.91E-07	2.91E-07	-66
1951	7244	206	36119.51	0.01	206.8504	206.5	-1.91E-06	-1.30E-06	-2.52E-06	-697	-475	-920	222	222	6.09E-07	6.09E-07	-32
1951	7244	207	36119.44	0.012	207.8511	207.5	-1.80E-06	-1.16E-06	-2.44E-06	-657	-424	-889	232	232	6.37E-07	6.37E-07	-35
1951	7244	208	36119.38	0.011	208.8517	208.5	-1.61E-06	-9.97E-07	-2.21E-06	-586	-364	-808	222	222	6.09E-07	6.09E-07	-38
1951	7244	209	36119.32	0.011	209.8524	209.5	-1.63E-06	-1.08E-06	-2.19E-06	-596	-394	-798	202	202	5.54E-07	5.54E-07	-34
1951	7244	210	36119.26	0.009	210.8531	210.5	-2.44E-06	-1.94E-06	-2.93E-06	-889	-707	-1071	182	182	4.98E-07	4.98E-07	-20
1951	7244	211	36119.17	0.009	211.8538	211.5	-1.14E-06	-6.37E-07	-1.63E-06	-414	-232	-596	182	182	4.98E-07	4.98E-07	-44
1951	7244	212	36119.13	0.009	212.8545	212.5	-1.72E-06	-1.19E-06	-2.24E-06	-627	-435	-819	192	192	5.26E-07	5.26E-07	-31
1951	7244	213	36119.07	0.01	213.8552	213.5	-1.85E-06	-1.30E-06	-2.41E-06	-677	-475	-879	202	202	5.54E-07	5.54E-07	-30
1951	7244	214	36119	0.01	214.8344	214.5	-1.91E-06	-1.27E-06	-2.55E-06	-697	-465	-930	232	232	6.37E-07	6.37E-07	-33
1951	7244	215	36118.93	0.013	215.8351	215.5	-2.30E-06	-1.63E-06	-2.96E-06	-839	-596	-1081	243	243	6.64E-07	6.64E-07	-29
1951	7244	216	36118.85	0.011	216.8358	216.5	-2.96E-06	-2.38E-06	-3.54E-06	-1081	-869	-1294	212	212	5.81E-07	5.81E-07	-20
1951	7244	217	36118.74	0.01	217.92	217.5	-3.35E-06	-2.82E-06	-3.88E-06	-1223	-1031	-1415	192	192	5.26E-07	5.26E-07	-16
1951	7244	218	36118.62	0.009	218.8372	218.5	-3.29E-06	-2.77E-06	-3.82E-06	-1203	-1011	-1395	192	192	5.26E-07	5.26E-07	-16
1951	7244	219	36118.5	0.01	219.8379	219.5	-3.13E-06	-2.57E-06	-3.68E-06	-1142	-940	-1344	202	202	5.54E-07	5.54E-07	-18
1951	7244	220	36118.39	0.01	220.8386	220.5	-1.94E-06	-1.36E-06	-2.52E-06	-707	-495	-920	212	212	5.81E-07	5.81E-07	-30
1951	7244	221	36118.32	0.011	221.8392	221.5	-2.60E-06	-2.05E-06	-3.16E-06	-950	-748	-1152	202	202	5.54E-07	5.54E-07	-21
1951	7244	222	36118.22	0.009	222.8399	222.5	-3.32E-06	-2.82E-06	-3.82E-06	-1213	-1031	-1395	182	182	4.98E-07	4.98E-07	-15
1951	7244	223	36118.1	0.009	223.8406	223.5	-3.38E-06	-2.85E-06	-3.90E-06	-1233	-1041	-1425	192	192	5.26E-07	5.26E-07	-16
1951	7244	224	36117.98	0.01	224.8413	224.5	-3.82E-06	-3.29E-06	-4.35E-06	-1395	-1203	-1587	192	192	5.26E-07	5.26E-07	-14
1951	7244	225	36117.84	0.009	225.9255	225.5	-4.79E-06	-4.21E-06	-5.37E-06	-1748	-1536	-1961	212	212	5.81E-07	5.81E-07	-12
1951	7244	226	36117.67	0.012	226.9262	226.5	-4.60E-06	-3.88E-06	-5.32E-06	-1678	-1415	-1940	263	263	7.20E-07	7.20E-07	-16
1951	7244	227	36117.51	0.014	227.9269	227.5	-7.89E-07	-4.15E-07	-1.16E-06	-288	-152	-424	136	136	3.74E-07	3.74E-07	-47
1951	7244	229	36117.45	0.013	229.8448	229.5	-2.02E-06	-1.30E-06	-2.74E-06	-738	-475	-1000	263	263	7.20E-07	7.20E-07	-36
1951	7244	230	36117.38	0.013	230.8455	230.5	-2.77E-06	-2.13E-06	-3.41E-06	-1011	-778	-1243	232	232	6.37E-07	6.37E-07	-23
1951	7244	231	36117.28	0.01	231.8462	231.5	-6.20E-06	-5.68E-06	-6.73E-06	-2264	-2072	-2456	192	192	5.26E-07	5.26E-07	-8
1951	7244	232	36117.05	0.009	232.1811	232.5	-3.13E-06	-2.60E-06	-3.65E-06	-1142	-950	-1334	192	192	5.26E-07	5.26E-07	-17
1951	7244	233	36116.94	0.01	233.1818	233.5	-1.63E-06	-1.05E-06	-2.22E-06	-596	-384	-808	212	212	5.81E-07	5.81E-07	-36
1951	7244	234	36116.88	0.011	234.8483	234.5	-2.38E-06	-1.80E-06	-2.96E-06	-869	-657	-1081	212	212	5.81E-07	5.81E-07	-24
1951	7244	235	36116.79	0.01	235.849	235.5	-3.07E-06	-2.52E-06	-3.63E-06	-1122	-920	-1324	202	202	5.54E-07	5.54E-07	-18
1951	7244	236	36116.68	0.01	236.8497	236.5	-2.99E-06	-2.46E-06	-3.52E-06	-1091	-899	-1283	192	192	5.26E-07	5.26E-07	-18
1951	7244	237	36116.57	0.009	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1956	1957	140	37071.37	0.01	140.9304	140.5	-2.10E-06	-1.54E-06	-2.67E-06	-768	-561	-975	207	207	5.66E-07	5.66E-07	-27
1956	1957	141	37071.29	0.011	141.9311	141.5	-1.80E-06	-1.79E-06	-1.81E-06	-656	-653	-660	4	4	1.06E-08	1.06E-08	-1
1956	1957	202	37067.22	0.013	202.8476	202.5	1.13E-06	1.86E-06	4.05E-07	414	679	148	266	266	7.28E-07	7.28E-07	64
1956	1957	203	37067.26	0.014	203.8483	203.5	1.70E-06	2.40E-06	9.98E-07	620	876	364	256	256	7.01E-07	7.01E-07	41
1956	1957	204	37067.33	0.012	204.849	204.5	1.50E-06	1.81E-06	1.19E-06	547	660	433	113	113	3.10E-07	3.10E-07	21
1956	1957	206	37067.44	0.011	206.8504	206.5	4.59E-07	1.08E-06	-1.62E-07	167	394	-59	226	226	6.20E-07	6.20E-07	135
1956	1957	207	37067.45	0.012	207.8511	207.5	-2.16E-07	4.32E-07	-8.63E-07	-79	158	-315	236	236	6.47E-07	6.47E-07	-300
1956	1957	208	37067.45	0.012	208.8517	208.5	8.09E-08	7.28E-07	-5.67E-07	30	266	-207	236	236	6.47E-07	6.47E-07	800
1956	1957	209	37067.45	0.012	209.8524	209.5	-4.05E-07	2.16E-07	-1.03E-06	-148	79	-374	226	226	6.20E-07	6.20E-07	-153
1956	1957	210	37067.43	0.011	210.8531	210.5	-5.13E-07	5.40E-08	-1.08E-06	-187	20	-394	207	207	5.67E-07	5.67E-07	-111
1956	1957	211	37067.41	0.01	211.8538	211.5	1.43E-06	2.02E-06	8.36E-07	522	739	305	217	217	5.94E-07	5.94E-07	42
1956	1957	212	37067.47	0.012	212.8545	212.5	-3.78E-07	2.70E-07	-1.03E-06	-138	98	-374	236	236	6.47E-07	6.47E-07	-171
1956	1957	213	37067.45	0.012	213.8552	213.5	-5.94E-07	5.40E-08	-1.24E-06	-217	20	-453	236	236	6.47E-07	6.47E-07	-109
1956	1957	214	37067.43	0.012	214.8344	214.5	-7.55E-07	-5.40E-08	-1.46E-06	-276	-20	-532	256	256	7.01E-07	7.01E-07	-93
1956	1957	215	37067.4	0.014	215.8351	215.5	-8.36E-07	-1.89E-07	-1.48E-06	-305	-69	-542	236	236	6.47E-07	6.47E-07	-77
1956	1957	216	37067.37	0.01	216.8358	216.5	-1.35E-06	-7.82E-07	-1.92E-06	-492	-286	-699	207	207	5.67E-07	5.67E-07	-42
1956	1957	217	37067.32	0.011	217.92	217.5	-2.59E-06	-2.02E-06	-3.16E-06	-945	-739	-1152	207	207	5.67E-07	5.67E-07	-22
1956	1957	218	37067.23	0.01	218.8372	218.5	-1.75E-06	-1.21E-06	-2.29E-06	-640	-443	-837	197	197	5.40E-07	5.40E-07	-31
1956	1957	219	37067.16	0.01	219.8379	219.5	-1.86E-06	-1.29E-06	-2.43E-06	-679	-473	-886	207	207	5.67E-07	5.67E-07	-30
1956	1957	220	37067.09	0.011	220.8386	220.5	5.13E-07	1.11E-06	-8.09E-08	187	404	-30	217	217	5.94E-07	5.94E-07	116
1956	1957	221	37067.11	0.011	221.8392	221.5	-1.40E-06	-8.36E-07	-1.97E-06	-512	-305	-719	207	207	5.67E-07	5.67E-07	-40
1956	1957	222	37067.06	0.01	222.8399	222.5	-2.37E-06	-1.81E-06	-2.94E-06	-867	-660	-1073	207	207	5.67E-07	5.67E-07	-24
1956	1957	223	37066.97	0.011	223.8406	223.5	-2.40E-06	-1.81E-06	-2.99E-06	-876	-660	-1093	217	217	5.94E-07	5.94E-07	-25
1956	1957	224	37066.88	0.011	224.8413	224.5	-2.62E-06	-2.08E-06	-3.16E-06	-955	-758	-1152	197	197	5.40E-07	5.40E-07	-21
1956	1957	225	37066.79	0.009	225.9255	225.5	-3.78E-06	-3.18E-06	-4.37E-06	-1379	-1162	-1595	217	217	5.94E-07	5.94E-07	-16
1956	1957	226	37066.65	0.013	226.9262	226.5	-2.89E-06	-2.16E-06	-3.62E-06	-1054	-788	-1320	266	266	7.28E-07	7.28E-07	-25
1956	1957	227	37066.54	0.014	227.9269	227.5	9.98E-07	1.36E-06	6.34E-07	364	497	231	133	133	3.64E-07	3.64E-07	36
1956	1957	229	37066.61	0.013	229.8448	229.5	-3.51E-07	3.51E-07	-1.05E-06	-128	128	-384	256	256	7.01E-07	7.01E-07	-200
1956	1957	230	37066.6	0.013	230.8455	230.5	-1.05E-06	-4.32E-07	-1.67E-06	-384	-158	-611	226	226	6.21E-07	6.21E-07	-59
1956	1957	231	37066.56	0.01	231.8462	231.5	-4.34E-06	-3.83E-06	-4.86E-06	-1585	-1398	-1772	187	187	5.13E-07	5.13E-07	-12
1956	1957	232	37066.4	0.009	232.1811	232.5	-1.56E-06	-1.05E-06	-2.08E-06	-571	-384	-758	187	187	5.13E-07	5.13E-07	-33
1956	1957	233	37066.34	0.01	233.1818	233.5	-7.82E-07	-2.16E-07	-1.35E-06	-286	-79	-492	207	207	5.67E-07	5.67E-07	-72
1956	1957	234	37066.31	0.011	234.8483	234.5	-1.32E-06	-7.55E-07	-1.89E-06	-483	-276	-689	207	207	5.67E-07	5.67E-07	-43
1956	1957	235	37066.26	0.01	235.849	235.5	-2.02E-06	-1.46E-06	-2.59E-06	-739	-532	-945	207	207	5.67E-07	5.67E-07	-28
1956	1957	236	37066.19	0.011	236.8497	236.5	-2.00E-06	-1.46E-06	-2.54E-06	-729	-532	-926	197	197	5.40E-07	5.40E-07	-27
1956	1957	237	37066.11	0.009	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1956	1962	140	60139.98	0.014	140.9304	140.5	-1.73E-06	-1.26E-06	-2.19E-06	-631	-461	-801	170	170	4.66E-07	4.66E-07	-27
1956	1962	141	60139.88	0.014	141.9311	141.5	-1.75E-06	-1.72E-06	-1.78E-06	-638	-628	-648	10	10	2.70E-08	2.70E-08	-2
1956	1962	157	60138.2	0.012	157.8372	157.5	-1.71E-06	-1.30E-06	-2.13E-06	-625	-473	-777	152	152	4.16E-07	4.16E-07	-24
1956	1962	158	60138.1	0.013	158.8379	158.5	-1.66E-06	-1.25E-06	-2.08E-06	-607	-455	-759	152	152	4.16E-07	4.16E-07	-25
1956	1962	159	60138	0.012	159.8386	159.5	-1.73E-06	-1.33E-06	-2.13E-06	-631	-486	-777	146	146	3.99E-07	3.99E-07	-23
1956	1962	160	60137.89	0.012	160.8392	160.5	-1.78E-06	-1.40E-06	-2.16E-06	-649	-510	-789	140	140	3.82E-07	3.82E-07	-21
1956	1962	161	60137.78	0.011	161.8399	161.5	-1.58E-06	-1.57E-06	-1.60E-06	-578	-574	-582	4	4	1.08E-08	1.08E-08	-1
1956	1962	198	60134.26	0.013	198.8448	198.5	-1.40E-06	-9.31E-07	-1.86E-06	-510	-340	-680	170	170	4.66E-07	4.66E-07	-33
1956	1962	199	60134.17	0.015	199.8455	199.5	-9.98E-07	-4.99E-07	-1.50E-06	-364	-182	-546	182	182	4.99E-07	4.99E-07	-50
1956	1962	200	60134.11	0.015	200.8462	200.5	-3.99E-07	9.98E-08	-8.98E-07	-146	36	-328	182	182	4.99E-07	4.99E-07	-125
1956	1962	201	60134.09	0.015	201.8469	201.5	1.58E-06	2.06E-06	1.10E-06	577	753	401	176	176	4.82E-07	4.82E-07	31
1956	1962	202	60134.19	0.014	202.8476	202.5	1.33E-07	5.99E-07	-3.33E-07	49	219	-121	170	170	4.66E-07	4.66E-07	350
1956	1962	203	60134.19	0.014	203.8483	203.5	7.65E-07	1.21E-06	3.16E-07	279	443	115	164	164	4.49E-07	4.49E-07	59
1956	1962	204	60134.24	0.013	204.849	204.5	3.74E-07	5.99E-07	1.50E-07	137	219	55	82	82	2.24E-07	2.24E-07	60
1956	1962	206	60134.28	0.014	206.8504	206.5	-2.33E-07	2.16E-07	-6.82E-07	-85	79	-249	164	164	4.49E-07	4.49E-07	-193
1956	1962	207	60134.27	0.013	207.8511	207.5	-5.99E-07	-1.66E-07	-1.03E-06	-219	-61	-376	158	158	4.32E-07	4.32E-07	-72
1956	1962	208	60134.23	0.013	208.8517	208.5	-2.83E-07	1.50E-07	-7.15E-07	-103	55	-261	158	158	4.32E-07	4.32E-07	-153
1956	1962	209	60134.22	0.013	209.8524	209.5	-6.98E-07	-2.99E-07	-1.10E-06	-255	-109	-401	146	146	3.99E-07	3.99E-07	-57
1956	1962	210	60134.18	0.011	210.8531	210.5	-6.15E-07	-2.33E-07	-9.98E-07	-225	-85	-364	140	140	3.82E-07	3.82E-07	-62
1956	1962	211	60134.14	0.012	211.8538	211.5	5.82E-07	9.98E-07	1.66E-07	212	364	61	152	152	4.16E-07	4.16E-07	71
1956	1962	212	60134.17	0.013	212.8545	212.5	-5.49E-07	-8.31E-08	-1.01E-06	-200	-30	-370	170	170	4.66E-07	4.66E-07	-85
1956	1962	213	60134.14	0.015	213.8552	213.5	-6.65E-07	-1.66E-07	-1.16E-06	-243	-61	-425	182	182	4.99E-07	4.99E-07	-75
1956	1962	214	60134.1	0.015	214.8344	214.5	-9.65E-07	-4.66E-07	-1.46E-06	-352	-170	-534	182	182	4.99E-07	4.99E-07	-52
1956	1962	215	60134.04	0.015	215.8351	215.5	-7.48E-07	-2.83E-07	-1.21E-06	-273	-103	-443	170	170	4.66E-07	4.66E-07	-62
1956	1962	216	60134	0.013	216.8358	216.5	-9.98E-07	-5.82E-07	-1.41E-06	-364	-212	-516	152	152	4.16E-07	4.16E-07	-42
1956	1962	217	60133.94	0.012	217.92	217.5	-1.21E-06	-8.15E-07	-1.61E-06	-443	-297	-589	146	146	3.99E-07	3.99E-07	-33
1956	1962	218	60133.86	0.012	218.8372	218.5	-1.53E-06	-1.13E-06	-1.93E-06	-558	-413	-704	146	146	3.99E-07	3.99E-07	-26
1956	1962	219	60133.77	0.012	219.8379	219.5	-1.26E-06	-8.65E-07	-1.66E-06	-461	-316	-607	146	146	3.99E-07	3.99E-07	-32
1956	1962	220	60133.7	0.012	220.8386	220.5	-6.65E-08	3.82E-07	-5.16E-07	-24	140	-188	164	164	4.49E-07	4.49E-07	-675
1956	1962	221	60133.69	0.015	221.8392	221.5	-5.32E-07	-8.31E-08	-9.81E-07	-194	-30	-358	164	164	4.49E-07	4.49E-07	-84
1956	1962	222	60133.66	0.012	222.8399	222.5	-2.01E-06	-1.61E-06	-2.41E-06	-734	-589	-880	146	146	3.99E-07	3.99E-07	-20
1956	1962	223	60133.54	0.012	223.8406	223.5	-1.90E-06	-1.48E-06	-2.31E-06	-692	-540	-844	152	152	4.16E-07	4.16E-07	-22
1956	1962	224	60133.43	0.013	224.8413	224.5	-1.75E-06	-1.33E-06	-2.16E-06	-637	-486	-789	152	152	4.16E-07	4.16E-07	-24
1956	1962	225	60133.32	0.012	225.9255	225.5	-1.68E-06	-1.28E-06	-2.08E-06	-613	-467	-759	146	146	3.99E-07	3.99E-07	-24
1956	1962	226	60133.22	0.012	226.9262	226.5	-9.48E-07	-4.82E-07	-1.41E-06	-346	-176	-516	170	170	4.66E-07	4.66E-07	-49
1956	1962	227	60133.16	0.016	227.9269	227.5	5.49E-07	8.40E-07	2.58E-07	200	307	94	106	106	2.91E-07	2.91E-07	53
1956	1962	229	60133.23	0.019	229.8448	229.5	-4.99E-08	5.32E-07	-6.32E-07	-18	194	-231	212	212	5.82E-07	5.82E-07	-1167
1956	1962	230	60133.23	0.016	230.8455	230.5	-9.15E-07	-4.32E-07	-1.40E-06	-334	-158	-510	176	176	4.82E-07	4.82E-07	-53
1956	1962	231	60133.17	0.013	231.8462	231.5	-1.75E-06	-1.35E-06	-2.15E-06	-637	-492	-783	146	146	3.99E-07	3.99E-07	-23
1956	1962	232	60133.07	0.011	232.1811	232.5	-1.45E-06	-1.03E-06	-1.86E-06	-528	-376	-680	152	152	4.16E-07	4.16E-07	-29
1956	1962	233	60132.98	0.014	233.1818	233.5	-6.65E-07	-2.33E-07	-1.10E-06	-243	-85	-401	158	158	4.32E-07	4.32E-07	-65
1956	1962	234	60132.94	0.012	234.8483	234.5	-1.58E-06	-1.16E-06	-2.00E-06	-577	-425	-728	152	152	4.16E-07	4.16E-07	-26
1956	1962	235	60132.84	0.013	235.849	235.5	-1.70E-06	-1.26E-06	-2.13E-06	-619	-461	-777	158	158	4.32E-07	4.32E-07	-25
1956	1962	236	60132.74	0.013	236.8497	236.5	-1.80E-06	-1.38E-06	-2.21E-06	-656	-504	-807	152	152	4.16E-07	4.16E-07	-23
1956	1962	237	60132.63	0.012	237.8504	237.5	-1.92E-06	-1.91E-06	-1.93E-06	-700	-697	-704	3	3	9.28E-09	9.28E-09	0
1956	1962	280	60127.67	0.012	280.8379	280.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1956	7238	126	1052.073	0.008	126.8372	126.5	-9.51E-07	1.43E-05	-1.62E-05	-347	5204	-5898	5551	5551	1.52E-05	1.52E-05	-1600
1956	7238	127	1052.072	0.008	127.8379	127.5	-2.92E-07	1.02E-06	-1.61E-06	-107	374	-587	480	480	1.32E-06	1.32E-06	-450
1956	7238	140	1052.068	0.01	140.9304	140.5	1.90E-06	2.19E-05	-1.81E-05	694	7980	-6592	7286	7286	2.00E-05	2.00E-05	1050
1956	7238	141	1052.07	0.011	141.9311	141.5	-2.97E-07	8.32E-07	-1.43E-06	-108	304	-520	412	412	1.13E-06	1.13E-06	-380
1956	7238	157	1052.065	0.008	157.8372	157.5	0.00E+00	1.62E-05	-1.62E-05	0	5898	-5898	5898	5898	1.62E-05	1.62E-05	0
1956	7238	158	1052.065	0.009	158.8379	158.5	9.51E-07	1.81E-05	-1.62E-05	347	6592	-5898	6245	6245	1.71E-05	1.71E-05	1800
1956	7238	159	1052.066	0.009	159.8386	159.5	9.51E-07	1.81E-05	-1.62E-05	347	6592	-5898	6245	6245	1.71E-05	1.71E-05	1800
1956	7238	160	1052.067	0.009	160.8392	160.5	-1.90E-06	1.62E-05	-2.00E-05	-694	5898	-7286	6592	6592	1.81E-05	1.81E-05	-950
1956	7238	161	1052.065	0.01	161.8399	161.5	1.80E-06	2.34E-06	1.26E-06	656	853	459	197	197	5.39E-07	5.39E-07	30
1956	7238	198	1052.135	0.011	198.8448	198.5	3.80E-06	2.57E-05	-1.81E-05	1388	9367	-6591	7979	7979	2.19E-05	2.19E-05	575
1956	7238	199	1052.139	0.012	199.8455	199.5	-3.80E-06	2.00E-05	-2.76E-05	-1388	7285	-10060	8673	8673	2.38E-05	2.38E-05	-625
1956	7238	200	1052.135	0.013	200.8462	200.5	7.60E-06	3.23E-05	-1.71E-05	2775	11795	-6244	9020	9020	2.47E-05	2.47E-05	325
1956	7238	201	1052.143	0.013	201.8469	201.5	2.28E-05	4.66E-05	-9.50E-07	8326	16998	-347	8673	8673	2.38E-05	2.38E-05	104
1956	7238	202	1052.167	0.012	202.8476	202.5	-7.60E-06	1.43E-05	-2.95E-05	-2775	5204	-10754	7979	7979	2.19E-05	2.19E-05	-288
1956	7238	203	1052.159	0.011	203.8483	203.5	4.75E-06	2.57E-05	-1.62E-05	1735	9366	-5897	7632	7632	2.09E-05	2.09E-05	440
1956	7238	204	1052.164	0.011	204.849	204.5	9.03E-06	1.95E-05	-1.43E-06	3296	7111	-520	3816	3816	1.05E-05	1.05E-05	116
1956	7238	206	1052.183	0.011	206.8504	206.5	2.28E-05	4.37E-05	1.90E-06	8325	15957	694	7632	7632	2.09E-05	2.09E-05	92
1956	7238	207	1052.207	0.011	207.8511	207.5	0.00E+00	2.19E-05	-2.19E-05	0	7978	-7978	7978	7978	2.19E-05	2.19E-05	0
1956	7238	208	1052.207	0.012	208.8517	208.5	4.75E-06	2.66E-05	-1.71E-05	1734	9713	-6244	7978	7978	2.19E-05	2.19E-05	460
1956	7238	209	1052.212	0.011	209.8524	209.5	9.50E-07	2.09E-05	-1.90E-05	347	7632	-6938	7285	7285	2.00E-05	2.00E-05	2100
1956	7238	210	1052.213	0.01	210.8531	210.5	6.65E-06	2.47E-05	-1.14E-05	2428	9019	-4163	6591	6591	1.81E-05	1.81E-05	271
1956	7238	211	1052.22	0.009	211.8538	211.5	2.47E-05	4.28E-05	6.65E-06	9019	15610	2428	6591	6591	1.81E-05	1.81E-05	73
1956	7238	212	1052.246	0.01	212.8545	212.5	3.80E-06	2.38E-05	-1.62E-05	1388	8672	-5897	7284	7284	2.00E-05	2.00E-05	525
1956	7238	213	1052.25	0.011	213.8552	213.5	7.60E-06	2.76E-05	-1.24E-05	2775	10059	-4509	7284	7284	2.00E-05	2.00E-05	263
1956	7238	214	1052.258	0.01	214.8344	214.5	3.80E-06	2.47E-05	-1.71E-05	1387	9019	-6244	7631	7631	2.09E-05	2.09E-05	550
1956	7238	215	1052.262	0.012	215.8351	215.5	5.70E-06	2.66E-05	-1.52E-05	2081	9712	-5550	7631	7631	2.09E-05	2.09E-05	367
1956	7238	216	1052.268	0.01	216.8358	216.5	3.80E-06	2.19E-05	-1.43E-05	1387	7978	-5203	6591	6591	1.81E-05	1.81E-05	475
1956	7238	217	1052.272	0.009	217.92	217.5	1.90E-06	1.90E-05	-1.52E-05	694	6937	-5550	6244	6244	1.71E-05	1.71E-05	900
1956	7238	218	1052.274	0.009	218.8372	218.5	6.65E-06	2.57E-05	-1.24E-05	2428	9365	-4509	6937	6937	1.90E-05	1.90E-05	286
1956	7238	219	1052.281	0.011	219.8379	219.5	9.50E-06	2.85E-05	-9.50E-06	3469	10406	-3469	6937	6937	1.90E-05	1.90E-05	200
1956	7238	220	1052.291	0.009	220.8386	220.5	-2.85E-06	1.71E-05	-2.28E-05	-1041	6244	-8325	7284	7284	2.00E-05	2.00E-05	-700
1956	7238	221	1052.288	0.012	221.8392	221.5	8.55E-06	2.95E-05	-1.24E-05	3122	10753	-4509	7631	7631	2.09E-05	2.09E-05	244
1956	7238	222	1052.297	0.01	222.8399	222.5	1.05E-05	2.95E-05	-8.55E-06	3815	10753	-3122	6937	6937	1.90E-05	1.90E-05	182
1956	7238	223	1052.308	0.01	223.8406	223.5	6.65E-06	2.47E-05	-1.14E-05	2428	9018	-4162	6590	6590	1.81E-05	1.81E-05	271
1956	7238	224	1052.315	0.009	224.8413	224.5	7.60E-06	2.47E-05	-9.50E-06	2775	9018	-3469	6243	6243	1.71E-05	1.71E-05	225
1956	7238	225	1052.323	0.009	225.9255	225.5	1.90E-06	2.19E-05	-1.81E-05	694	7978	-6590	7284	7284	2.00E-05	2.00E-05	1050
1956	7238	226	1052.325	0.012	226.9262	226.5	2.28E-05	4.56E-05	0.00E+00	8324	16649	0	8324	8324	2.28E-05	2.28E-05	100
1956	7238	227	1052.349	0.012	227.9269	227.5	8.08E-06	2.00E-05	-3.80E-06	2948	7284	-1387	4336	4336	1.19E-05	1.19E-05	147
1956	7238	229	1052.366	0.013	229.8448	229.5	5.70E-06	2.85E-05	-1.71E-05	2081	10405	-6243	8324	8324	2.28E-05	2.28E-05	400
1956	7238	230	1052.372	0.011	230.8455	230.5	3.80E-06	2.47E-05	-1.71E-05	1387	9018	-6243	7630	7630	2.09E-05	2.09E-05	550
1956	7238	231	1052.376	0.011	231.8462	231.5	1.24E-05	3.14E-05	-6.65E-06	4509	11445	-2428	6937	6937	1.90E-05	1.90E-05	154
1956	7238	232	1052.389	0.009	232.1811	232.5	1.90E-06	2.00E-05	-1.62E-05	694	7283	-5896	6590	6590	1.81E-05	1.81E-05	950
1956	7238	233	1052.391	0.01	233.1818	233.5	5.70E-06	2.47E-05	-1.33E-05	2081	9018	-4856	6937	6937	1.90E-05	1.90E-05	333
1956	7238	234	1052.397	0.01	234.8483	234.5	5.70E-06	2.38E-05	-1.24E-05	2081	8671	-4509	6590	6590	1.81E-05	1.81E-05	317
1956	7238	235	1052.403	0.009	235.849	235.5	2.85E-06	2.00E-05	-1.43E-05	1040	7283	-5202	6243	6243	1.71E-05	1.71E-05	600
1956	7238	236	1052.406	0.009	236.8497	236.5	4.75E-06	2.19E-05	-1.24E-05	1734	7977	-4509	6243	6243	1.71E-05	1.71E-05	360
1956	7238	237	1052.411	0.009	237.8504	237.5	4.00E-06	4.90E-06	3.10E-06	1460	1789	1132	329	329	9.00E-07	9.00E-07	23
1956	7238	256	1052.491	0.009	256.842	256.5	9.50E-07	2.00E-05	-1.81E-05	347	7283	-6589	6936	6936	1.90E-05	1.90E-05	2000
1956	7238	257	1052.492	0.011	257.8427	257.5	4.75E-06	2.47E-05	-1.52E-05	1734	9017	-5549	7283	7283	2.00E-05	2.00E-05	420
1956	7238	258	1052.497	0.01	258.8434	258.5	4.52E-07	1.31E-06	-4.07E-07	165	479	-149	314	314	8.60E-07	8.60E-07	190
1956	7238	279	1052.507	0.009	279.8372	279.5	2.85E-06	1.90E-05	-1.33E-05	1040	6936	-4855	5895	5895	1.62E-05	1.62E-05	567
1956	7238	280	1052.51	0.008	280.8379	280.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1956	7244	140	35678.83	0.011	140.9304	140.5	-2.16E-06	-1.54E-06	-2.77E-06	-788	-563	-1013	225	225	6.17E-07	6.17E-07	-29
1956	7244	141	35678.76	0.011	141.9311	141.5	-1.99E-06	-1.98E-06	-2.01E-06	-728	-723	-732	4	4	1.19E-08	1.19E-08	-1
1956	7244	200	35674.56	0.014	200.8462	200.5	2.80E-07	1.01E-06	-4.48E-07	102	368	-164	266	266	7.29E-07	7.29E-07	260
1956	7244	201	35674.57	0.012	201.8469	201.5	3.42E-06	4.09E-06	2.75E-06	1248	1494	1003	246	246	6.73E-07	6.73E-07	20
1956	7244	202	35674.69	0.012	202.8476	202.5	1.23E-06	1.93E-06	5.33E-07	450	706	194	256	256	7.01E-07	7.01E-07	57
1956	7244	203	35674.74	0.013	203.8483	203.5	1.60E-06	2.24E-06	9.53E-07	583	819	348	235	235	6.45E-07	6.45E-07	40
1956	7244	204	35674.79	0.01	204.849	204.5	1.63E-06	1.91E-06	1.35E-06	593	696	491	102	102	2.80E-07	2.80E-07	17
1956	7244	206	35674.91	0.01	206.8504	206.5	4.48E-07	1.01E-06	-1.12E-07	164	368	-41	205	205	5.61E-07	5.61E-07	125
1956	7244	207	35674.93	0.01	207.8511	207.5	-1.40E-07	4.48E-07	-7.29E-07	-51	164	-266	215	215	5.89E-07	5.89E-07	-420
1956	7244	208	35674.92	0.011	208.8517	208.5	-2.80E-08	5.89E-07	-6.45E-07	-10	215	-235	225	225	6.17E-07	6.17E-07	-2200
1956	7244	209	35674.92	0.011	209.8524	209.5	-3.08E-07	2.80E-07	-8.97E-07	-113	102	-327	215	215	5.89E-07	5.89E-07	-191
1956	7244	210	35674.91	0.01	210.8531	210.5	-6.73E-07	-1.12E-07	-1.23E-06	-246	-41	-450	205	205	5.61E-07	5.61E-07	-83
1956	7244	211	35674.88	0.01	211.8538	211.5	1.40E-06	1.96E-06	8.41E-07	512	716	307	205	205	5.61E-07	5.61E-07	40
1956	7244	212	35674.93	0.01	212.8545	212.5	-3.64E-07	2.24E-07	-9.53E-07	-133	82	-348	215	215	5.89E-07	5.89E-07	-162
1956	7244	213	35674.92	0.011	213.8552	213.5	-6.45E-07	-2.80E-08	-1.26E-06	-235	-10	-460	225	225	6.17E-07	6.17E-07	-96
1956	7244	214	35674.9	0.011	214.8344	214.5	-8.69E-07	-1.68E-07	-1.57E-06	-317	-61	-573	256	256	7.01E-07	7.01E-07	-81
1956	7244	215	35674.87	0.014	215.8351	215.5	-1.01E-06	-3.36E-07	-1.68E-06	-368	-123	-614	246	246	6.73E-07	6.73E-07	-67
1956	7244	216	35674.83	0.01	216.8358	216.5	-1.54E-06	-9.53E-07	-2.13E-06	-563	-348	-778	215	215	5.89E-07	5.89E-07	-38
1956	7244	217	35674.78	0.011	217.92	217.5	-2.61E-06	-2.02E-06	-3.20E-06	-952	-737	-1166	215	215	5.89E-07	5.89E-07	-23
1956	7244	218	35674.68	0.01	218.8372	218.5	-1.99E-06	-1.43E-06	-2.55E-06	-726	-522	-931	205	205	5.61E-07	5.61E-07	-28
1956	7244	219	35674.61	0.01	219.8379	219.5	-2.02E-06	-1.46E-06	-2.58E-06	-737	-532	-941	205	205	5.61E-07	5.61E-07	-28
1956	7244	220	35674.54	0.01	220.8386	220.5	4.48E-07	1.07E-06	-1.68E-07	164	389	-61	225	225	6.17E-07	6.17E-07	137
1956	7244	221	35674.56	0.012	221.8392	221.5	-1.57E-06	-9.53E-07	-2.19E-06	-573	-348	-798	225	225	6.17E-07	6.17E-07	-39
1956	7244	222	35674.5	0.01	222.8399	222.5	-2.44E-06	-1.88E-06	-3.00E-06	-890	-686	-1095	205	205	5.61E-07	5.61E-07	-23
1956	7244	223	35674.41	0.01	223.8406	223.5	-2.49E-06	-1.93E-06	-3.06E-06	-911	-706	-1115	205	205	5.61E-07	5.61E-07	-22
1956	7244	224	35674.32	0.01	224.8413	224.5	-2.86E-06	-2.33E-06	-3.39E-06	-1044	-849	-1238	194	194	5.33E-07	5.33E-07	-19
1956	7244	225	35674.22	0.009	225.9255	225.5	-3.73E-06	-3.11E-06	-4.34E-06	-1361	-1136	-1586	225	225	6.17E-07	6.17E-07	-17
1956	7244	226	35674.09	0.013	226.9262	226.5	-3.42E-06	-2.66E-06	-4.18E-06	-1248	-972	-1524	276	276	7.57E-07	7.57E-07	-22
1956	7244	227	35673.97	0.014	227.9269	227.5	8.55E-07	1.23E-06	4.77E-07	312	450	174	138	138	3.78E-07	3.78E-07	44
1956	7244	229	35674.03	0.013	229.8448	229.5	-4.49E-07	2.52E-07	-1.15E-06	-164	92	-419	256	256	7.01E-07	7.01E-07	-156
1956	7244	230	35674.01	0.012	230.8455	230.5	-1.18E-06	-5.89E-07	-1.77E-06	-430	-215	-645	215	215	5.89E-07	5.89E-07	-50
1956	7244	231	35673.97	0.009	231.8462	231.5	-4.51E-06	-4.01E-06	-5.02E-06	-1647	-1463	-1831	184	184	5.05E-07	5.05E-07	-11
1956	7244	232	35673.81	0.009	232.1811	232.5	-1.93E-06	-1.40E-06	-2.47E-06	-706	-512	-900	194	194	5.33E-07	5.33E-07	-28
1956	7244	233	35673.74	0.01	233.1818	233.5	-9.25E-07	-3.64E-07	-1.49E-06	-338	-133	-542	205	205	5.61E-07	5.61E-07	-61
1956	7244	234	35673.71	0.01	234.8483	234.5	-1.29E-06	-7.57E-07	-1.82E-06	-471	-276	-665	194	194	5.33E-07	5.33E-07	-41
1956	7244	235	35673.66	0.009	235.849	235.5	-2.10E-06	-1.57E-06	-2.64E-06	-767	-573	-962	194	194	5.33E-07	5.33E-07	-25
1956	7244	236	35673.59	0.01	236.8497	236.5	-2.07E-06	-1.57E-06	-2.58E-06	-757	-573	-941	184	184	5.05E-07	5.05E-07	-24
1956	7244	237	35673.51	0.008	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1957	1962	140	23355.97	0.012	140.9304	140.5	-1.20E-06	-1.71E-07	-2.23E-06	-438	-63	-813	375	375	1.03E-06	1.03E-06	-86
1957	1962	141	23355.94	0.012	141.9311	141.5	-1.23E-06	-9.74E-07	-1.49E-06	-449	-356	-543	94	94	2.57E-07	2.57E-07	-21
1957	1962	145	23355.83	0.012	145.8504	145.5	-1.41E-06	-3.43E-07	-2.48E-06	-516	-125	-906	391	391	1.07E-06	1.07E-06	-76
1957	1962	146	23355.8	0.013	146.8511	146.5	-1.07E-06	4.28E-08	-2.18E-06	-391	16	-797	406	406	1.11E-06	1.11E-06	-104
1957	1962	147	23355.77	0.013	147.8517	147.5	-1.21E-06	-1.19E-06	-1.24E-06	-443	-436	-451	8	8	2.10E-08	2.10E-08	-2
1957	1962	202	23354.21	0.014	202.8476	202.5	-1.46E-06	-1.71E-07	-2.74E-06	-531	-63	-1000	469	469	1.28E-06	1.28E-06	-88
1957	1962	203	23354.18	0.016	203.8483	203.5	-7.71E-07	5.14E-07	-2.06E-06	-281	188	-750	469	469	1.28E-06	1.28E-06	-167
1957	1962	204	23354.16	0.014	204.849	204.5	-1.43E-06	-8.78E-07	-1.99E-06	-524	-320	-727	203	203	5.57E-07	5.57E-07	-39
1957	1962	206	23354.09	0.012	206.8504	206.5	-1.37E-06	-3.43E-07	-2.40E-06	-500	-125	-875	375	375	1.03E-06	1.03E-06	-75
1957	1962	207	23354.06	0.012	207.8511	207.5	-1.20E-06	-1.28E-07	-2.27E-06	-438	-47	-828	391	391	1.07E-06	1.07E-06	-89
1957	1962	208	23354.03	0.013	208.8517	208.5	-8.56E-07	3.00E-07	-2.01E-06	-313	109	-735	422	422	1.16E-06	1.16E-06	-135
1957	1962	209	23354.01	0.014	209.8524	209.5	-1.28E-06	-2.57E-07	-2.31E-06	-469	-94	-844	375	375	1.03E-06	1.03E-06	-80
1957	1962	210	23353.98	0.01	210.8531	210.5	-8.14E-07	-1.11E-16	-1.63E-06	-297	0	-594	297	297	8.14E-07	8.14E-07	-100
1957	1962	211	23353.96	0.009	211.8538	211.5	-8.56E-07	-4.28E-08	-1.67E-06	-313	-16	-610	297	297	8.14E-07	8.14E-07	-95
1957	1962	212	23353.94	0.01	212.8545	212.5	-7.71E-07	1.71E-07	-1.71E-06	-281	63	-625	344	344	9.42E-07	9.42E-07	-122
1957	1962	213	23353.93	0.012	213.8552	213.5	-8.14E-07	2.57E-07	-1.88E-06	-297	94	-688	391	391	1.07E-06	1.07E-06	-132
1957	1962	214	23353.91	0.013	214.8344	214.5	-1.28E-06	-1.28E-07	-2.44E-06	-469	-47	-891	422	422	1.16E-06	1.16E-06	-90
1957	1962	215	23353.88	0.014	215.8351	215.5	-7.71E-07	3.43E-07	-1.88E-06	-281	125	-688	406	406	1.11E-06	1.11E-06	-144
1957	1962	216	23353.86	0.012	216.8358	216.5	-6.42E-07	2.57E-07	-1.54E-06	-234	94	-563	328	328	8.99E-07	8.99E-07	-140
1957	1962	217	23353.84	0.009	217.92	217.5	8.56E-07	1.63E-06	8.56E-08	313	594	31	281	281	7.71E-07	7.71E-07	90
1957	1962	218	23353.86	0.009	218.8372	218.5	-1.16E-06	-3.43E-07	-1.97E-06	-422	-125	-719	297	297	8.14E-07	8.14E-07	-70
1957	1962	219	23353.84	0.01	219.8379	219.5	-3.43E-07	5.99E-07	-1.28E-06	-125	219	-469	344	344	9.42E-07	9.42E-07	-275
1957	1962	220	23353.83	0.012	220.8386	220.5	-1.16E-06	-1.28E-07	-2.18E-06	-422	-47	-797	375	375	1.03E-06	1.03E-06	-89
1957	1962	221	23353.8	0.012	221.8392	221.5	7.71E-07	1.71E-06	-1.71E-07	281	625	-63	344	344	9.42E-07	9.42E-07	122
1957	1962	222	23353.82	0.01	222.8399	222.5	-1.67E-06	-8.14E-07	-2.53E-06	-610	-297	-922	313	313	8.56E-07	8.56E-07	-51
1957	1962	223	23353.78	0.01	223.8406	223.5	-1.16E-06	-2.57E-07	-2.06E-06	-422	-94	-750	328	328	8.99E-07	8.99E-07	-78
1957	1962	224	23353.75	0.011	224.8413	224.5	-4.71E-07	3.85E-07	-1.33E-06	-172	141	-485	313	313	8.56E-07	8.56E-07	-182
1957	1962	225	23353.74	0.009	225.9255	225.5	1.46E-06	2.27E-06	6.42E-07	531	828	234	297	297	8.14E-07	8.14E-07	56
1957	1962	226	23353.78	0.01	226.9262	226.5	1.84E-06	2.91E-06	7.71E-07	672	1063	281	391	391	1.07E-06	1.07E-06	58
1957	1962	227	23353.82	0.015	227.9269	227.5	-1.28E-07	5.78E-07	-8.35E-07	-47	211	-305	258	258	7.07E-07	7.07E-07	-550
1957	1962	229	23353.81	0.018	229.8448	229.5	2.57E-07	1.58E-06	-1.07E-06	94	578	-391	485	485	1.33E-06	1.33E-06	517
1957	1962	230	23353.82	0.013	230.8455	230.5	-9.42E-07	8.56E-08	-1.97E-06	-344	31	-719	375	375	1.03E-06	1.03E-06	-109
1957	1962	231	23353.8	0.011	231.8462	231.5	2.06E-06	2.95E-06	1.16E-06	750	1078	422	328	328	8.99E-07	8.99E-07	44
1957	1962	232	23353.85	0.01	232.1811	232.5	-1.41E-06	-4.71E-07	-2.36E-06	-516	-172	-860	344	344	9.42E-07	9.42E-07	-67
1957	1962	233	23353.81	0.012	233.1818	233.5	-5.57E-07	4.28E-07	-1.54E-06	-203	156	-563	359	359	9.85E-07	9.85E-07	-177
1957	1962	234	23353.8	0.011	234.8483	234.5	-2.10E-06	-1.20E-06	-3.00E-06	-766	-438	-1094	328	328	8.99E-07	8.99E-07	-43
1957	1962	235	23353.75	0.01	235.849	235.5	-1.20E-06	-3.00E-07	-2.10E-06	-438	-109	-766	328	328	8.99E-07	8.99E-07	-75
1957	1962	236	23353.72	0.011	236.8497	236.5	-1.41E-06	-5.57E-07	-2.27E-06	-516	-203	-828	313	313	8.56E-07	8.56E-07	-61
1957	1962	237	23353.69	0.009	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1957	7238	140	36039.4	0.012	140.9304	140.5	-2.25E-06	-1.61E-06	-2.89E-06	-820	-587	-1053	233	233	6.38E-07	6.38E-07	-28
1957	7238	141	36039.32	0.011	141.9311	141.5	-1.98E-06	-1.97E-06	-1.99E-06	-724	-720	-728	4	4	1.09E-08	1.09E-08	-1
1957	7238	202	36034.96	0.013	202.8476	202.5	1.33E-06	2.05E-06	6.11E-07	486	750	223	263	263	7.22E-07	7.22E-07	54
1957	7238	203	36035.01	0.013	203.8483	203.5	1.58E-06	2.28E-06	8.88E-07	577	831	324	253	253	6.94E-07	6.94E-07	44
1957	7238	204	36035.07	0.012	204.849	204.5	1.19E-06	1.50E-06	8.88E-07	436	547	324	111	111	3.05E-07	3.05E-07	26
1957	7238	206	36035.15	0.01	206.8504	206.5	-2.50E-07	3.33E-07	-8.33E-07	-91	122	-304	213	213	5.83E-07	5.83E-07	-233
1957	7238	207	36035.14	0.011	207.8511	207.5	-3.89E-07	2.22E-07	-9.99E-07	-142	81	-365	223	223	6.11E-07	6.11E-07	-157
1957	7238	208	36035.13	0.011	208.8517	208.5	-2.22E-07	3.89E-07	-8.33E-07	-81	142	-304	223	223	6.11E-07	6.11E-07	-275
1957	7238	209	36035.12	0.011	209.8524	209.5	-5.55E-07	5.55E-08	-1.17E-06	-203	20	-425	223	223	6.11E-07	6.11E-07	-110
1957	7238	210	36035.1	0.011	210.8531	210.5	-7.77E-07	-2.22E-07	-1.33E-06	-284	-81	-486	203	203	5.55E-07	5.55E-07	-71
1957	7238	211	36035.07	0.009	211.8538	211.5	5.00E-07	1.03E-06	-2.78E-08	182	375	-10	192	192	5.27E-07	5.27E-07	106
1957	7238	212	36035.09	0.01	212.8545	212.5	-6.38E-07	-2.78E-08	-1.25E-06	-233	-10	-456	223	223	6.11E-07	6.11E-07	-96
1957	7238	213	36035.07	0.012	213.8552	213.5	-9.44E-07	-2.78E-07	-1.61E-06	-344	-101	-587	243	243	6.66E-07	6.66E-07	-71
1957	7238	214	36035.03	0.012	214.8344	214.5	-9.44E-07	-2.22E-07	-1.67E-06	-344	-81	-608	263	263	7.22E-07	7.22E-07	-76
1957	7238	215	36035	0.014	215.8351	215.5	-1.11E-06	-4.16E-07	-1.80E-06	-405	-152	-658	253	253	6.94E-07	6.94E-07	-62
1957	7238	216	36034.96	0.011	216.8358	216.5	-1.64E-06	-1.05E-06	-2.22E-06	-598	-385	-810	213	213	5.83E-07	5.83E-07	-36
1957	7238	217	36034.9	0.01	217.92	217.5	-2.86E-06	-2.30E-06	-3.41E-06	-1043	-841	-1246	203	203	5.55E-07	5.55E-07	-19
1957	7238	218	36034.8	0.01	218.8372	218.5	-2.08E-06	-1.50E-06	-2.66E-06	-760	-547	-972	213	213	5.83E-07	5.83E-07	-28
1957	7238	219	36034.72	0.011	219.8379	219.5	-2.33E-06	-1.75E-06	-2.91E-06	-851	-638	-1064	213	213	5.83E-07	5.83E-07	-25
1957	7238	220	36034.64	0.01	220.8386	220.5	5.27E-07	1.14E-06	-8.33E-08	192	415	-30	223	223	6.11E-07	6.11E-07	116
1957	7238	221	36034.66	0.012	221.8392	221.5	-1.89E-06	-1.28E-06	-2.50E-06	-689	-466	-912	223	223	6.11E-07	6.11E-07	-32
1957	7238	222	36034.59	0.01	222.8399	222.5	-2.83E-06	-2.25E-06	-3.41E-06	-1033	-820	-1246	213	213	5.83E-07	5.83E-07	-21
1957	7238	223	36034.49	0.011	223.8406	223.5	-2.75E-06	-2.16E-06	-3.33E-06	-1003	-790	-1216	213	213	5.83E-07	5.83E-07	-21
1957	7238	224	36034.39	0.01	224.8413	224.5	-3.05E-06	-2.53E-06	-3.58E-06	-1114	-922	-1307	192	192	5.27E-07	5.27E-07	-17
1957	7238	225	36034.28	0.009	225.9255	225.5	-4.08E-06	-3.47E-06	-4.69E-06	-1489	-1266	-1712	223	223	6.11E-07	6.11E-07	-15
1957	7238	226	36034.13	0.013	226.9262	226.5	-3.72E-06	-2.97E-06	-4.47E-06	-1357	-1084	-1631	273	273	7.49E-07	7.49E-07	-20
1957	7238	227	36034	0.014	227.9269	227.5	7.49E-07	1.14E-06	3.61E-07	273	415	132	142	142	3.89E-07	3.89E-07	52
1957	7238	229	36034.05	0.014	229.8448	229.5	-6.94E-07	2.78E-08	-1.42E-06	-253	10	-517	263	263	7.22E-07	7.22E-07	-104
1957	7238	230	36034.03	0.012	230.8455	230.5	-1.30E-06	-6.94E-07	-1.91E-06	-476	-253	-699	223	223	6.11E-07	6.11E-07	-47
1957	7238	231	36033.98	0.01	231.8462	231.5	-4.97E-06	-4.44E-06	-5.49E-06	-1813	-1621	-2006	192	192	5.27E-07	5.27E-07	-11
1957	7238	232	36033.8	0.009	232.1811	232.5	-1.75E-06	-1.19E-06	-2.30E-06	-638	-436	-841	203	203	5.55E-07	5.55E-07	-32
1957	7238	233	36033.74	0.011	233.1818	233.5	-1.11E-06	-5.27E-07	-1.69E-06	-405	-192	-618	213	213	5.83E-07	5.83E-07	-52
1957	7238	234	36033.7	0.01	234.8483	234.5	-1.61E-06	-1.08E-06	-2.14E-06	-588	-395	-780	192	192	5.27E-07	5.27E-07	-33
1957	7238	235	36033.64	0.009	235.849	235.5	-2.30E-06	-1.78E-06	-2.83E-06	-841	-648	-1033	192	192	5.27E-07	5.27E-07	-23
1957	7238	236	36033.56	0.01	236.8497	236.5	-2.28E-06	-1.78E-06	-2.78E-06	-831	-648	-1013	182	182	5.00E-07	5.00E-07	-22
1957	7238	237	36033.47	0.008	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1957	7244	140	1435.866	0.009	140.9304	140.5	-1.39E-06	1.11E-05	-1.39E-05	-508	4067	-5084	4576	4576	1.25E-05	1.25E-05	-900
1957	7244	141	1435.864	0.009	141.9311	141.5	0.00E+00	3.31E-06	-3.31E-06	0	1207	-1207	1207	1207	3.31E-06	3.31E-06	0
1957	7244	145	1435.864	0.01	145.8504	145.5	-6.96E-07	1.46E-05	-1.60E-05	-254	5338	-5847	5592	5592	1.53E-05	1.53E-05	-2200
1957	7244	146	1435.863	0.012	146.8511	146.5	0.00E+00	1.60E-05	-1.60E-05	0	5847	-5847	5847	5847	1.60E-05	1.60E-05	0
1957	7244	147	1435.863	0.011	147.8517	147.5	-5.19E-07	-2.03E-07	-8.36E-07	-189	-74	-305	116	116	3.17E-07	3.17E-07	-61
1957	7244	202	1435.822	0.014	202.8476	202.5	-2.79E-06	1.74E-05	-2.30E-05	-1017	6355	-8389	7372	7372	2.02E-05	2.02E-05	-725
1957	7244	203	1435.818	0.015	203.8483	203.5	3.48E-06	2.30E-05	-1.60E-05	1271	8389	-5847	7118	7118	1.95E-05	1.95E-05	560
1957	7244	204	1435.823	0.013	204.849	204.5	-1.74E-06	6.27E-06	-9.75E-06	-636	2288	-3559	2923	2923	8.01E-06	8.01E-06	-460
1957	7244	206	1435.818	0.01	206.8504	206.5	-6.96E-07	1.32E-05	-1.46E-05	-254	4830	-5338	5084	5084	1.39E-05	1.39E-05	-2000
1957	7244	207	1435.817	0.01	207.8511	207.5	-5.57E-06	7.66E-06	-1.88E-05	-2034	2796	-6864	4830	4830	1.32E-05	1.32E-05	-238
1957	7244	208	1435.809	0.009	208.8517	208.5	-6.96E-07	1.39E-05	-1.53E-05	-254	5084	-5593	5338	5338	1.46E-05	1.46E-05	-2100
1957	7244	209	1435.808	0.012	209.8524	209.5	-3.48E-06	1.11E-05	-1.81E-05	-1271	4067	-6610	5338	5338	1.46E-05	1.46E-05	-420
1957	7244	210	1435.803	0.009	210.8531	210.5	0.00E+00	1.18E-05	-1.18E-05	0	4322	-4322	4322	4322	1.18E-05	1.18E-05	0
1957	7244	211	1435.803	0.008	211.8538	211.5	-1.39E-06	1.04E-05	-1.32E-05	-508	3813	-4830	4322	4322	1.18E-05	1.18E-05	-850
1957	7244	212	1435.801	0.009	212.8545	212.5	1.39E-06	1.46E-05	-1.18E-05	508	5338	-4322	4830	4830	1.32E-05	1.32E-05	950
1957	7244	213	1435.803	0.01	213.8552	213.5	-6.96E-07	1.39E-05	-1.53E-05	-254	5084	-5593	5338	5338	1.46E-05	1.46E-05	-2100
1957	7244	214	1435.802	0.011	214.8344	214.5	6.96E-07	1.60E-05	-1.46E-05	254	5847	-5338	5593	5593	1.53E-05	1.53E-05	2200
1957	7244	215	1435.803	0.011	215.8351	215.5	-6.96E-07	1.32E-05	-1.46E-05	-254	4830	-5338	5084	5084	1.39E-05	1.39E-05	-2000
1957	7244	216	1435.802	0.009	216.8358	216.5	0.00E+00	1.18E-05	-1.18E-05	0	4322	-4322	4322	4322	1.18E-05	1.18E-05	0
1957	7244	217	1435.802	0.008	217.92	217.5	-4.88E-06	6.96E-06	-1.67E-05	-1779	2542	-6101	4322	4322	1.18E-05	1.18E-05	-243
1957	7244	218	1435.795	0.009	218.8372	218.5	2.79E-06	1.46E-05	-9.05E-06	1017	5339	-3305	4322	4322	1.18E-05	1.18E-05	425
1957	7244	219	1435.799	0.008	219.8379	219.5	-6.96E-07	9.75E-06	-1.11E-05	-254	3559	-4067	3813	3813	1.04E-05	1.04E-05	-1500
1957	7244	220	1435.798	0.007	220.8386	220.5	1.39E-06	1.25E-05	-9.75E-06	508	4576	-3559	4067	4067	1.11E-05	1.11E-05	800
1957	7244	221	1435.8	0.009	221.8392	221.5	1.39E-06	1.39E-05	-1.11E-05	508	5084	-4067	4576	4576	1.25E-05	1.25E-05	900
1957	7244	222	1435.802	0.009	222.8399	222.5	-1.39E-06	1.04E-05	-1.32E-05	-508	3813	-4830	4322	4322	1.18E-05	1.18E-05	-850
1957	7244	223	1435.8	0.008	223.8406	223.5	-6.96E-07	1.11E-05	-1.25E-05	-254	4067	-4576	4322	4322	1.18E-05	1.18E-05	-1700
1957	7244	224	1435.799	0.009	224.8413	224.5	6.96E-07	1.18E-05	-1.04E-05	254	4322	-3813	4067	4067	1.11E-05	1.11E-05	1600
1957	7244	225	1435.8	0.007	225.9255	225.5	0.00E+00	9.75E-06	-9.75E-06	0	3559	-3559	3559	3559	9.75E-06	9.75E-06	0
1957	7244	226	1435.8	0.007	226.9262	226.5	4.18E-06	1.46E-05	-6.27E-06	1525	5338	-2288	3813	3813	1.04E-05	1.04E-05	250
1957	7244	227	1435.806	0.008	227.9269	227.5	1.39E-06	7.66E-06	-4.88E-06	508	2796	-1779	2288	2288	6.27E-06	6.27E-06	450
1957	7244	229	1435.81	0.01	229.8448	229.5	6.96E-07	1.60E-05	-1.46E-05	254	5847	-5338	5593	5593	1.53E-05	1.53E-05	2200
1957	7244	230	1435.811	0.012	230.8455	230.5	-6.96E-07	1.39E-05	-1.53E-05	-254	5084	-5593	5338	5338	1.46E-05	1.46E-05	-2100
1957	7244	231	1435.81	0.009	231.8462	231.5	-4.18E-06	7.66E-06	-1.60E-05	-1525	2796	-5847	4322	4322	1.18E-05	1.18E-05	-283
1957	7244	232	1435.804	0.008	232.1811	232.5	6.27E-06	1.81E-05	-5.57E-06	2288	6610	-2034	4322	4322	1.18E-05	1.18E-05	189
1957	7244	233	1435.813	0.009	233.1818	233.5	-6.96E-07	1.25E-05	-1.39E-05	-254	4576	-5084	4830	4830	1.32E-05	1.32E-05	-1900
1957	7244	234	1435.812	0.01	234.8483	234.5	-2.09E-06	1.04E-05	-1.46E-05	-763	3813	-5338	4576	4576	1.25E-05	1.25E-05	-600
1957	7244	235	1435.809	0.008	235.849	235.5	-1.39E-06	1.04E-05	-1.32E-05	-508	3813	-4830	4322	4322	1.18E-05	1.18E-05	-850
1957	7244	236	1435.807	0.009	236.8497	236.5	-6.96E-07	1.18E-05	-1.32E-05	-254	4322	-4830	4576	4576	1.25E-05	1.25E-05	-1800
1957	7244	237	1435.806	0.009	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1962	7238	140	59095.07	0.015	140.9304	140.5	-1.79E-06	-1.34E-06	-2.25E-06	-655	-488	-821	167	167	4.57E-07	4.57E-07	-25
1962	7238	141	59094.97	0.012	141.9311	141.5	-1.80E-06	-1.78E-06	-1.83E-06	-658	-649	-667	9	9	2.54E-08	2.54E-08	-1
1962	7238	157	59093.26	0.012	157.8372	157.5	-1.73E-06	-1.32E-06	-2.13E-06	-630	-482	-778	148	148	4.06E-07	4.06E-07	-24
1962	7238	158	59093.16	0.012	158.8379	158.5	-1.79E-06	-1.39E-06	-2.20E-06	-655	-506	-803	148	148	4.06E-07	4.06E-07	-23
1962	7238	159	59093.05	0.012	159.8386	159.5	-1.81E-06	-1.40E-06	-2.22E-06	-661	-513	-809	148	148	4.06E-07	4.06E-07	-22
1962	7238	160	59092.95	0.012	160.8392	160.5	-1.81E-06	-1.42E-06	-2.20E-06	-661	-519	-803	142	142	3.89E-07	3.89E-07	-21
1962	7238	161	59092.84	0.011	161.8399	161.5	-1.79E-06	-1.74E-06	-1.84E-06	-653	-635	-672	19	19	5.08E-08	5.08E-08	-3
1962	7238	169	59091.99	0.013	169.8455	169.5	-1.83E-06	-1.37E-06	-2.28E-06	-667	-500	-834	167	167	4.57E-07	4.57E-07	-25
1962	7238	170	59091.89	0.014	170.8462	170.5	-1.69E-06	-1.67E-06	-1.71E-06	-618	-611	-625	7	7	2.00E-08	2.00E-08	-1
1962	7238	192	59089.68	0.012	192.8406	192.5	-1.24E-06	-8.29E-07	-1.64E-06	-451	-303	-599	148	148	4.06E-07	4.06E-07	-33
1962	7238	193	59089.61	0.012	193.8413	193.5	-1.45E-06	-1.24E-06	-1.66E-06	-528	-451	-605	77	77	2.12E-07	2.12E-07	-15
1962	7238	195	59089.44	0.013	195.8427	195.5	-1.46E-06	-1.02E-06	-1.90E-06	-531	-371	-692	161	161	4.40E-07	4.40E-07	-30
1962	7238	196	59089.35	0.013	196.8434	196.5	-1.51E-06	-1.30E-06	-1.73E-06	-553	-476	-630	77	77	2.12E-07	2.12E-07	-14
1962	7238	198	59089.18	0.012	198.8448	198.5	-1.51E-06	-1.08E-06	-1.93E-06	-550	-395	-704	154	154	4.23E-07	4.23E-07	-28
1962	7238	199	59089.09	0.013	199.8455	199.5	-9.98E-07	-5.58E-07	-1.44E-06	-364	-204	-525	161	161	4.40E-07	4.40E-07	-44
1962	7238	200	59089.03	0.013	200.8462	200.5	-6.26E-07	-2.03E-07	-1.05E-06	-229	-74	-383	154	154	4.23E-07	4.23E-07	-68
1962	7238	201	59088.99	0.012	201.8469	201.5	1.17E-06	1.61E-06	7.28E-07	426	587	266	161	161	4.40E-07	4.40E-07	38
1962	7238	202	59089.06	0.014	202.8476	202.5	2.20E-07	6.94E-07	-2.54E-07	80	253	-93	173	173	4.74E-07	4.74E-07	215
1962	7238	203	59089.07	0.014	203.8483	203.5	7.11E-07	1.18E-06	2.37E-07	259	432	86	173	173	4.74E-07	4.74E-07	67
1962	7238	204	59089.11	0.014	204.849	204.5	1.95E-07	4.15E-07	-2.54E-08	71	151	-9	80	80	2.20E-07	2.20E-07	113
1962	7238	206	59089.14	0.012	206.8504	206.5	-6.77E-07	-2.71E-07	-1.08E-06	-247	-99	-395	148	148	4.06E-07	4.06E-07	-60
1962	7238	207	59089.1	0.012	207.8511	207.5	-6.77E-07	-2.54E-07	-1.10E-06	-247	-93	-402	154	154	4.23E-07	4.23E-07	-63
1962	7238	208	59089.06	0.013	208.8517	208.5	-4.23E-07	-1.69E-08	-8.29E-07	-154	-6	-303	148	148	4.06E-07	4.06E-07	-96
1962	7238	209	59089.03	0.011	209.8524	209.5	-7.78E-07	-4.23E-07	-1.13E-06	-284	-154	-414	130	130	3.55E-07	3.55E-07	-46
1962	7238	210	59088.99	0.01	210.8531	210.5	-7.62E-07	-4.23E-07	-1.10E-06	-278	-154	-402	124	124	3.38E-07	3.38E-07	-44
1962	7238	211	59088.94	0.01	211.8538	211.5	6.77E-08	4.06E-07	-2.71E-07	25	148	-99	124	124	3.38E-07	3.38E-07	500
1962	7238	212	59088.95	0.01	212.8545	212.5	-6.77E-07	-2.71E-07	-1.08E-06	-247	-99	-395	148	148	4.06E-07	4.06E-07	-60
1962	7238	213	59088.91	0.014	213.8552	213.5	-8.63E-07	-4.06E-07	-1.32E-06	-315	-148	-482	167	167	4.57E-07	4.57E-07	-53
1962	7238	214	59088.85	0.013	214.8344	214.5	-1.05E-06	-5.92E-07	-1.51E-06	-383	-216	-550	167	167	4.57E-07	4.57E-07	-44
1962	7238	215	59088.79	0.014	215.8351	215.5	-8.97E-07	-4.40E-07	-1.35E-06	-327	-161	-494	167	167	4.57E-07	4.57E-07	-51
1962	7238	216	59088.74	0.013	216.8358	216.5	-1.13E-06	-7.45E-07	-1.52E-06	-414	-272	-556	142	142	3.89E-07	3.89E-07	-34
1962	7238	217	59088.67	0.01	217.92	217.5	-1.32E-06	-9.65E-07	-1.68E-06	-482	-352	-612	130	130	3.55E-07	3.55E-07	-27
1962	7238	218	59088.59	0.011	218.8372	218.5	-1.71E-06	-1.32E-06	-2.10E-06	-624	-482	-766	142	142	3.89E-07	3.89E-07	-23
1962	7238	219	59088.49	0.012	219.8379	219.5	-1.51E-06	-1.13E-06	-1.88E-06	-550	-414	-686	136	136	3.72E-07	3.72E-07	-25
1962	7238	220	59088.4	0.01	220.8386	220.5	-5.08E-08	3.89E-07	-4.91E-07	-19	142	-179	161	161	4.40E-07	4.40E-07	-867
1962	7238	221	59088.4	0.016	221.8392	221.5	-7.62E-07	-2.88E-07	-1.24E-06	-278	-105	-451	173	173	4.74E-07	4.74E-07	-62
1962	7238	222	59088.36	0.012	222.8399	222.5	-2.28E-06	-1.88E-06	-2.69E-06	-834	-686	-982	148	148	4.06E-07	4.06E-07	-18
1962	7238	223	59088.22	0.012	223.8406	223.5	-2.06E-06	-1.68E-06	-2.45E-06	-754	-612	-896	142	142	3.89E-07	3.89E-07	-19
1962	7238	224	59088.1	0.011	224.8413	224.5	-1.96E-06	-1.59E-06	-2.34E-06	-717	-581	-852	136	136	3.72E-07	3.72E-07	-19
1962	7238	225	59087.98	0.011	225.9255	225.5	-1.79E-06	-1.40E-06	-2.18E-06	-655	-513	-797	142	142	3.89E-07	3.89E-07	-22
1962	7238	226	59087.88	0.012	226.9262	226.5	-1.40E-06	-9.31E-07	-1.88E-06	-513	-340	-686	173	173	4.74E-07	4.74E-07	-34
1962	7238	227	59087.79	0.016	227.9269	227.5	4.06E-07	7.11E-07	1.02E-07	148	259	37	111	111	3.05E-07	3.05E-07	75
1962	7238	229	59087.84	0.02	229.8448	229.5	-2.03E-07	4.06E-07	-8.12E-07	-74	148	-297	222	222	6.09E-07	6.09E-07	-300
1962	7238	230	59087.83	0.016	230.8455	230.5	-1.05E-06	-5.75E-07	-1.52E-06	-383	-210	-556	173	173	4.74E-07	4.74E-07	-45
1962	7238	231	59087.77	0.012	231.8462	231.5	-2.05E-06	-1.66E-06	-2.44E-06	-747	-605	-890	142	142	3.89E-07	3.89E-07	-19
1962	7238	232	59087.65	0.011	232.1811	232.5	-1.52E-06	-1.08E-06	-1.96E-06	-556	-395	-717	161	161	4.40E-07	4.40E-07	-29
1962	7238	233	59087.56	0.015	233.1818	233.5	-8.46E-07	-4.06E-07	-1.29E-06	-309	-148	-469	161	161	4.40E-07	4.40E-07	-52
1962	7238	234	59087.51	0.011	234.8483	234.5	-1.74E-06	-1.37E-06	-2.12E-06	-636	-500	-772	136	136	3.72E-07	3.72E-07	-21
1962	7238	235	59087.4	0.011	235.849	235.5	-1.81E-06	-1.44E-06	-2.18E-06	-661	-525	-797	136	136	3.72E-07	3.72E-07	-21
1962	7238	236	59087.3	0.011	236.8497	236.5	-1.96E-06	-1.61E-06	-2.32E-06	-717	-587	-846	130	130	3.55E-07	3.55E-07	-18
1962	7238	237	59087.18	0.01	237.8504	237.5	-2.02E-06	-2.01E-06	-2.03E-06	-737	-734	-741	3	3	8.66E-09	8.66E-09	0
1962	7238	280	59082.05	0.012	280.8379	280.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1962	7244	140	24790.68	0.012	140.9304	140.5	-1.17E-06	-2.42E-07	-2.10E-06	-427	-88	-766	339	339	9.28E-07	9.28E-07	-79
1962	7244	141	24790.65	0.011	141.9311	141.5	-1.16E-06	-8.98E-07	-1.42E-06	-423	-328	-519	96	96	2.62E-07	2.62E-07	-23
1962	7244	145	24790.54	0.015	145.8504	145.5	-1.33E-06	-1.61E-07	-2.50E-06	-486	-59	-913	427	427	1.17E-06	1.17E-06	-88
1962	7244	146	24790.5	0.014	146.8511	146.5	-1.05E-06	8.07E-08	-2.18E-06	-383	29	-795	412	412	1.13E-06	1.13E-06	-108
1962	7244	147	24790.48	0.014	147.8517	147.5	-1.17E-06	-1.15E-06	-1.19E-06	-427	-419	-434	8	8	2.06E-08	2.06E-08	-2
1962	7244	200	24788.94	0.013	200.8462	200.5	-1.29E-06	-2.42E-07	-2.34E-06	-471	-88	-854	383	383	1.05E-06	1.05E-06	-81
1962	7244	201	24788.91	0.013	201.8469	201.5	-1.09E-06	8.07E-08	-2.26E-06	-398	29	-825	427	427	1.17E-06	1.17E-06	-107
1962	7244	202	24788.88	0.016	202.8476	202.5	-1.57E-06	-4.03E-07	-2.74E-06	-574	-147	-1001	427	427	1.17E-06	1.17E-06	-74
1962	7244	203	24788.84	0.013	203.8483	203.5	-4.84E-07	5.65E-07	-1.53E-06	-177	206	-560	383	383	1.05E-06	1.05E-06	-217
1962	7244	204	24788.83	0.013	204.849	204.5	-1.45E-06	-9.48E-07	-1.96E-06	-530	-346	-714	184	184	5.04E-07	5.04E-07	-35
1962	7244	206	24788.76	0.012	206.8504	206.5	-1.33E-06	-4.03E-07	-2.26E-06	-486	-147	-825	339	339	9.28E-07	9.28E-07	-70
1962	7244	207	24788.72	0.011	207.8511	207.5	-1.45E-06	-5.24E-07	-2.38E-06	-530	-191	-869	339	339	9.28E-07	9.28E-07	-64
1962	7244	208	24788.69	0.012	208.8517	208.5	-8.07E-07	1.21E-07	-1.73E-06	-294	44	-633	339	339	9.28E-07	9.28E-07	-115
1962	7244	209	24788.67	0.011	209.8524	209.5	-1.41E-06	-5.65E-07	-2.26E-06	-515	-206	-825	309	309	8.47E-07	8.47E-07	-60
1962	7244	210	24788.63	0.01	210.8531	210.5	-7.26E-07	4.03E-08	-1.49E-06	-265	15	-545	280	280	7.66E-07	7.66E-07	-106
1962	7244	211	24788.62	0.009	211.8538	211.5	-8.47E-07	-8.07E-08	-1.61E-06	-309	-29	-589	280	280	7.66E-07	7.66E-07	-90
1962	7244	212	24788.59	0.01	212.8545	212.5	-6.86E-07	2.42E-07	-1.61E-06	-250	88	-589	339	339	9.28E-07	9.28E-07	-135
1962	7244	213	24788.58	0.013	213.8552	213.5	-7.66E-07	2.82E-07	-1.82E-06	-280	103	-663	383	383	1.05E-06	1.05E-06	-137
1962	7244	214	24788.56	0.013	214.8344	214.5	-1.13E-06	-1.11E-16	-2.26E-06	-412	0	-825	412	412	1.13E-06	1.13E-06	-100
1962	7244	215	24788.53	0.015	215.8351	215.5	-7.66E-07	3.23E-07	-1.86E-06	-280	118	-677	398	398	1.09E-06	1.09E-06	-142
1962	7244	216	24788.51	0.012	216.8358	216.5	-5.65E-07	2.82E-07	-1.41E-06	-206	103	-515	309	309	8.47E-07	8.47E-07	-150
1962	7244	217	24788.5	0.009	217.92	217.5	5.65E-07	1.33E-06	-2.02E-07	206	486	-74	280	280	7.66E-07	7.66E-07	136
1962	7244	218	24788.51	0.01	218.8372	218.5	-9.28E-07	-1.21E-07	-1.73E-06	-339	-44	-633	294	294	8.07E-07	8.07E-07	-87
1962	7244	219	24788.49	0.01	219.8379	219.5	-3.63E-07	5.24E-07	-1.25E-06	-133	191	-456	324	324	8.88E-07	8.88E-07	-244
1962	7244	220	24788.48	0.012	220.8386	220.5	-9.68E-07	4.03E-08	-1.98E-06	-353	15	-722	368	368	1.01E-06	1.01E-06	-104
1962	7244	221	24788.46	0.013	221.8392	221.5	8.07E-07	1.78E-06	-1.61E-07	294	648	-59	353	353	9.68E-07	9.68E-07	120
1962	7244	222	24788.48	0.011	222.8399	222.5	-1.61E-06	-7.66E-07	-2.46E-06	-589	-280	-898	309	309	8.47E-07	8.47E-07	-52
1962	7244	223	24788.44	0.01	223.8406	223.5	-1.17E-06	-3.23E-07	-2.02E-06	-427	-118	-736	309	309	8.47E-07	8.47E-07	-72
1962	7244	224	24788.41	0.011	224.8413	224.5	-4.03E-07	4.03E-07	-1.21E-06	-147	147	-442	294	294	8.07E-07	8.07E-07	-200
1962	7244	225	24788.4	0.009	225.9255	225.5	1.33E-06	2.14E-06	5.24E-07	486	780	191	294	294	8.07E-07	8.07E-07	61
1962	7244	226	24788.43	0.011	226.9262	226.5	2.10E-06	3.15E-06	1.05E-06	766	1149	383	383	383	1.05E-06	1.05E-06	50
1962	7244	227	24788.48	0.015	227.9269	227.5	-4.03E-08	5.85E-07	-6.66E-07	-15	214	-243	228	228	6.25E-07	6.25E-07	-1550
1962	7244	229	24788.48	0.016	229.8448	229.5	2.82E-07	1.53E-06	-9.68E-07	103	560	-353	456	456	1.25E-06	1.25E-06	443
1962	7244	230	24788.49	0.015	230.8455	230.5	-8.88E-07	1.21E-07	-1.90E-06	-324	44	-692	368	368	1.01E-06	1.01E-06	-114
1962	7244	231	24788.46	0.01	231.8462	231.5	1.73E-06	2.54E-06	9.28E-07	633	928	339	294	294	8.07E-07	8.07E-07	47
1962	7244	232	24788.51	0.01	232.1811	232.5	-9.68E-07	-8.07E-08	-1.86E-06	-353	-29	-677	324	324	8.88E-07	8.88E-07	-92
1962	7244	233	24788.48	0.012	233.1818	233.5	-5.24E-07	3.63E-07	-1.41E-06	-191	133	-515	324	324	8.88E-07	8.88E-07	-169
1962	7244	234	24788.47	0.01	234.8483	234.5	-2.10E-06	-1.29E-06	-2.90E-06	-766	-471	-1060	294	294	8.07E-07	8.07E-07	-38
1962	7244	235	24788.42	0.01	235.849	235.5	-1.21E-06	-4.44E-07	-1.98E-06	-442	-162	-722	280	280	7.66E-07	7.66E-07	-63
1962	7244	236	24788.39	0.009	236.8497	236.5	-1.41E-06	-6.45E-07	-2.18E-06	-515	-236	-795	280	280	7.66E-07	7.66E-07	-54
1962	7244	237	24788.35	0.01	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

7238	7244	140	34648.94	0.013	140.9304	140.5	-2.34E-06	-1.65E-06	-3.03E-06	-853	-600	-1106	253	253	6.93E-07	6.93E-07	-30
7238	7244	141	34648.86	0.011	141.9311	141.5	-2.18E-06	-2.17E-06	-2.19E-06	-795	-791	-799	4	4	1.17E-08	1.17E-08	-1
7238	7244	200	34644.41	0.013	200.8462	200.5	-1.73E-07	5.20E-07	-8.66E-07	-63	190	-316	253	253	6.93E-07	6.93E-07	-400
7238	7244	201	34644.4	0.011	201.8469	201.5	2.63E-06	3.35E-06	1.91E-06	959	1222	695	263	263	7.22E-07	7.22E-07	27
7238	7244	202	34644.49	0.014	202.8476	202.5	1.50E-06	2.31E-06	6.93E-07	548	843	253	295	295	8.08E-07	8.08E-07	54
7238	7244	203	34644.55	0.014	203.8483	203.5	1.44E-06	2.16E-06	7.22E-07	527	790	263	263	263	7.22E-07	7.22E-07	50
7238	7244	204	34644.6	0.011	204.849	204.5	1.30E-06	1.62E-06	9.81E-07	474	590	358	116	116	3.18E-07	3.18E-07	24
7238	7244	206	34644.69	0.011	206.8504	206.5	-2.89E-07	3.46E-07	-9.24E-07	-105	126	-337	232	232	6.35E-07	6.35E-07	-220
7238	7244	207	34644.68	0.011	207.8511	207.5	-3.46E-07	2.60E-07	-9.53E-07	-126	95	-348	221	221	6.06E-07	6.06E-07	-175
7238	7244	208	34644.66	0.01	208.8517	208.5	-3.18E-07	2.60E-07	-8.95E-07	-116	95	-327	211	211	5.77E-07	5.77E-07	-182
7238	7244	209	34644.65	0.01	209.8524	209.5	-4.62E-07	8.66E-08	-1.01E-06	-169	32	-369	200	200	5.48E-07	5.48E-07	-119
7238	7244	210	34644.64	0.009	210.8531	210.5	-1.01E-06	-4.91E-07	-1.53E-06	-369	-179	-558	190	190	5.20E-07	5.20E-07	-51
7238	7244	211	34644.6	0.009	211.8538	211.5	4.91E-07	1.01E-06	-2.89E-08	179	369	-11	190	190	5.20E-07	5.20E-07	106
7238	7244	212	34644.62	0.009	212.8545	212.5	-6.64E-07	-5.77E-08	-1.27E-06	-242	-21	-464	221	221	6.06E-07	6.06E-07	-91
7238	7244	213	34644.6	0.012	213.8552	213.5	-1.04E-06	-3.75E-07	-1.70E-06	-379	-137	-622	242	242	6.64E-07	6.64E-07	-64
7238	7244	214	34644.56	0.011	214.8344	214.5	-1.10E-06	-3.75E-07	-1.82E-06	-400	-137	-664	263	263	7.22E-07	7.22E-07	-66
7238	7244	215	34644.52	0.014	215.8351	215.5	-1.30E-06	-6.06E-07	-1.99E-06	-474	-221	-727	253	253	6.93E-07	6.93E-07	-53
7238	7244	216	34644.48	0.01	216.8358	216.5	-1.85E-06	-1.27E-06	-2.42E-06	-674	-464	-885	211	211	5.77E-07	5.77E-07	-31
7238	7244	217	34644.41	0.01	217.92	217.5	-2.89E-06	-2.31E-06	-3.46E-06	-1054	-843	-1264	211	211	5.77E-07	5.77E-07	-20
7238	7244	218	34644.31	0.01	218.8372	218.5	-2.37E-06	-1.76E-06	-2.97E-06	-864	-643	-1085	221	221	6.06E-07	6.06E-07	-26
7238	7244	219	34644.23	0.011	219.8379	219.5	-2.48E-06	-1.88E-06	-3.09E-06	-906	-685	-1127	221	221	6.06E-07	6.06E-07	-24
7238	7244	220	34644.14	0.01	220.8386	220.5	4.33E-07	1.10E-06	-2.31E-07	158	400	-84	242	242	6.64E-07	6.64E-07	153
7238	7244	221	34644.16	0.013	221.8392	221.5	-2.08E-06	-1.41E-06	-2.74E-06	-759	-516	-1001	242	242	6.64E-07	6.64E-07	-32
7238	7244	222	34644.09	0.01	222.8399	222.5	-2.94E-06	-2.37E-06	-3.52E-06	-1075	-864	-1285	211	211	5.77E-07	5.77E-07	-20
7238	7244	223	34643.99	0.01	223.8406	223.5	-2.89E-06	-2.31E-06	-3.46E-06	-1054	-843	-1264	211	211	5.77E-07	5.77E-07	-20
7238	7244	224	34643.89	0.01	224.8413	224.5	-3.29E-06	-2.74E-06	-3.84E-06	-1201	-1001	-1401	200	200	5.48E-07	5.48E-07	-17
7238	7244	225	34643.77	0.009	225.9255	225.5	-4.01E-06	-3.35E-06	-4.68E-06	-1464	-1222	-1707	242	242	6.64E-07	6.64E-07	-17
7238	7244	226	34643.63	0.014	226.9262	226.5	-4.33E-06	-3.52E-06	-5.14E-06	-1580	-1285	-1875	295	295	8.08E-07	8.08E-07	-19
7238	7244	227	34643.48	0.014	227.9269	227.5	5.77E-07	9.81E-07	1.73E-07	211	358	63	148	148	4.04E-07	4.04E-07	70
7238	7244	229	34643.52	0.014	229.8448	229.5	-8.08E-07	-5.77E-08	-1.56E-06	-295	-21	-569	274	274	7.51E-07	7.51E-07	-93
7238	7244	230	34643.49	0.012	230.8455	230.5	-1.44E-06	-8.08E-07	-2.08E-06	-527	-295	-759	232	232	6.35E-07	6.35E-07	-44
7238	7244	231	34643.44	0.01	231.8462	231.5	-5.20E-06	-4.65E-06	-5.74E-06	-1896	-1696	-2097	200	200	5.48E-07	5.48E-07	-11
7238	7244	232	34643.26	0.009	232.1811	232.5	-2.16E-06	-1.59E-06	-2.74E-06	-790	-579	-1001	211	211	5.77E-07	5.77E-07	-27
7238	7244	233	34643.19	0.011	233.1818	233.5	-1.21E-06	-6.06E-07	-1.82E-06	-443	-221	-664	221	221	6.06E-07	6.06E-07	-50
7238	7244	234	34643.15	0.01	234.8483	234.5	-1.62E-06	-1.10E-06	-2.14E-06	-590	-400	-780	190	190	5.20E-07	5.20E-07	-32
7238	7244	235	34643.09	0.008	235.849	235.5	-2.40E-06	-1.91E-06	-2.89E-06	-874	-695	-1054	179	179	4.91E-07	4.91E-07	-20
7238	7244	236	34643.01	0.009	236.8497	236.5	-2.40E-06	-1.91E-06	-2.89E-06	-874	-695	-1054	179	179	4.91E-07	4.91E-07	-20
7238	7244	237	34642.93	0.008	237.8504	237.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

Part C-2. Baseline data for the 2007 season.

1948	1950	142	41558.26	0.019	142.1825	142.5	-3.90E-06	-3.01E-06	-4.79E-06	-1423	-1098	-1748	325	325	8.90E-07	8.90E-07	-23
1948	1950	143	41558.1	0.018	143.1832	143.5	-3.94E-06	-3.87E-06	-4.01E-06	-1437	-1411	-1464	26	26	7.22E-08	7.22E-08	-2
1948	1950	155	41556.14	0.018	155.17	155.5	-3.95E-06	-3.10E-06	-4.79E-06	-1440	-1133	-1748	307	307	8.42E-07	8.42E-07	-21
1948	1950	156	41555.97	0.017	156.1707	156.5	-3.99E-06	-3.18E-06	-4.81E-06	-1458	-1159	-1757	299	299	8.18E-07	8.18E-07	-20
1948	1950	157	41555.81	0.017	157.1714	157.5	-3.83E-06	-2.98E-06	-4.67E-06	-1397	-1089	-1704	307	307	8.42E-07	8.42E-07	-22
1948	1950	158	41555.65	0.018	158.1721	158.5	-3.66E-06	-2.79E-06	-4.52E-06	-1335	-1019	-1651	316	316	8.66E-07	8.66E-07	-24
1948	1950	159	41555.49	0.018	159.1728	159.5	-3.66E-06	-2.79E-06	-4.52E-06	-1335	-1019	-1651	316	316	8.66E-07	8.66E-07	-24
1948	1950	160	41555.34	0.018	160.1734	160.5	-3.51E-06	-2.55E-06	-4.48E-06	-1282	-931	-1634	351	351	9.63E-07	9.63E-07	-27
1948	1950	161	41555.2	0.022	161.1741	161.5	-2.77E-06	-1.80E-06	-3.73E-06	-1010	-659	-1361	351	351	9.63E-07	9.63E-07	-35
1948	1950	162	41555.08	0.018	162.1748	162.5	-1.52E-06	-6.74E-07	-2.36E-06	-553	-246	-861	307	307	8.42E-07	8.42E-07	-56
1948	1950	163	41555.02	0.017	163.1755	163.5	-1.97E-06	-1.16E-06	-2.79E-06	-720	-422	-1019	299	299	8.18E-07	8.18E-07	-41
1948	1950	164	41554.94	0.017	164.1762	164.5	-2.43E-06	-1.64E-06	-3.22E-06	-887	-597	-1177	290	290	7.94E-07	7.94E-07	-33
1948	1950	165	41554.84	0.016	165.1769	165.5	-2.02E-06	-1.23E-06	-2.82E-06	-738	-448	-1028	290	290	7.94E-07	7.94E-07	-39
1948	1950	166	41554.75	0.017	166.1776	166.5	-2.67E-06	-1.88E-06	-3.47E-06	-975	-685	-1265	290	290	7.94E-07	7.94E-07	-30
1948	1950	167	41554.64	0.016	167.1783	167.5	-3.08E-06	-2.29E-06	-3.87E-06	-1124	-834	-1414	290	290	7.94E-07	7.94E-07	-26
1948	1950	168	41554.51	0.017	168.179	168.5	-2.43E-06	-1.64E-06	-3.22E-06	-887	-597	-1177	290	290	7.94E-07	7.94E-07	-33
1948	1950	169	41554.41	0.016	169.1797	169.5	-2.05E-06	-1.23E-06	-2.86E-06	-747	-448	-1045	299	299	8.18E-07	8.18E-07	-40
1948	1950	170	41554.33	0.018	170.1804	170.5	-2.79E-06	-1.97E-06	-3.61E-06	-1019	-720	-1318	299	299	8.18E-07	8.18E-07	-29
1948	1950	171	41554.21	0.016	171.1811	171.5	-2.98E-06	-2.19E-06	-3.78E-06	-1089	-799	-1379	290	290	7.94E-07	7.94E-07	-27
1948	1950	172	41554.09	0.017	172.1818	172.5	-1.93E-06	-9.87E-07	-2.86E-06	-703	-360	-1045	343	343	9.39E-07	9.39E-07	-49
1948	1950	173	41554.01	0.022	173.1825	173.5	-1.32E-06	-3.85E-07	-2.26E-06	-483	-141	-826	343	343	9.39E-07	9.39E-07	-71
1948	1950	174	41553.95	0.017	174.1832	174.5	1.68E-07	1.01E-06	-6.74E-07	61	369	-246	307	307	8.42E-07	8.42E-07	500
1948	1950	175	41553.96	0.018	175.1839	175.5	-1.03E-06	-2.41E-07	-1.83E-06	-378	-88	-668	290	290	7.94E-07	7.94E-07	-77
1948	1950	176	41553.92	0.015	176.1846	176.5	4.09E-07	1.18E-06	-3.61E-07	149	430	-132	281	281	7.70E-07	7.70E-07	188
1948	1950	177	41553.93	0.017	177.1853	177.5	-9.63E-07	-1.44E-07	-1.78E-06	-351	-53	-650	299	299	8.18E-07	8.18E-07	-85
1948	1950	178	41553.89	0.017	178.1859	178.5	-1.18E-06	-4.09E-07	-1.95E-06	-430	-149	-711	281	281	7.70E-07	7.70E-07	-65
1948	1950	179	41553.84	0.015	179.1866	179.5	-1.16E-06	-4.09E-07	-1.90E-06	-422	-149	-694	272	272	7.46E-07	7.46E-07	-65
1948	1950	180	41553.8	0.016	180.1873	180.5	-2.74E-06	-1.97E-06	-3.51E-06	-1001	-720	-1282	281	281	7.70E-07	7.70E-07	-28
1948	1950	181	41553.68	0.016	181.188	181.5	-1.40E-06	-6.26E-07	-2.17E-06	-509	-228	-791	281	281	7.70E-07	7.70E-07	-55
1948	1950	182	41553.62	0.016	182.1679	182.5	-3.47E-06	-2.70E-06	-4.24E-06	-1265	-984	-1546	281	281	7.70E-07	7.70E-07	-22
1948	1950	183	41553.48	0.016	183.1686	183.5	-2.21E-06	-1.42E-06	-3.01E-06	-808	-518	-1098	290	290	7.94E-07	7.94E-07	-36
1948	1950	184	41553.39	0.017	184.1693	184.5	-3.73E-06	-2.89E-06	-4.57E-06	-1362	-1054	-1669	307	307	8.42E-07	8.42E-07	-23
1948	1950	185	41553.23	0.018	185.17	185.5	-3.25E-06	-2.41E-06	-4.09E-06	-1186	-878	-1493	307	307	8.42E-07	8.42E-07	-26
1948	1950	186	41553.1	0.017	186.1707	186.5	-3.13E-06	-2.29E-06	-3.97E-06	-1142	-834	-1449	307	307	8.42E-07	8.42E-07	-27
1948	1950	187	41552.97	0.018	187.1714	187.5	-3.15E-06	-2.31E-06	-3.99E-06	-1151	-843	-1458	307	307	8.42E-07	8.42E-07	-27
1948	1950	188	41552.84	0.017	188.1721	188.5	-2.53E-06	-1.73E-06	-3.32E-06	-922	-632	-1212	290	290	7.94E-07	7.94E-07	-31
1948	1950	189	41552.73	0.016	189.1728	189.5	-3.37E-07	4.57E-07	-1.13E-06	-123	167	-413	290	290	7.94E-07	7.94E-07	-236
1948	1950	190	41552.72	0.017	190.1734	190.5	-1.03E-06	-1.68E-07	-1.90E-06	-378	-61	-694	316	316	8.66E-07	8.66E-07	-84
1948	1950	191	41552.67	0.019	191.1741	191.5	-1.28E-06	-3.85E-07	-2.17E-06	-466	-141	-791	325	325	8.90E-07	8.90E-07	-70
1948	1950	192	41552.62	0.018	192.1748	192.5	-1.66E-06	-7.94E-07	-2.53E-06	-606	-290	-922	316	316	8.66E-07	8.66E-07	-52
1948	1950	193	41552.55	0.018	193.1755	193.5	-2.82E-06	-1.95E-06	-3.68E-06	-1028	-712	-1344	316	316	8.66E-07	8.66E-07	-31
1948	1950	194	41552.44	0.018	194.1762	194.5	-4.14E-06	-3.22E-06	-5.05E-06	-1511	-1177	-1845	334	334	9.15E-07	9.15E-07	-22
1948	1950	195	41552.26	0.02	195.1769	195.5	-4.77E-06	-3.83E-06	-5.70E-06	-1739	-1397	-2082	343	343	9.39E-07	9.39E-07	-20
1948	1950	196	41552.07	0.019	196.1776	196.5	-4.04E-06	-3.10E-06	-4.98E-06	-1476	-1133	-1818	343	343	9.39E-07	9.39E-07	-23
1948	1950	197	41551.9	0.02	197.1783	197.5	-4.12E-06	-3.15E-06	-5.08E-06	-1502	-1151	-1853	351	351	9.63E-07	9.63E-07	-23
1948	1950	198	41551.73	0.02	198.179	198.5	-3.13E-07	5.78E-07	-1.20E-06	-114	211	-439	325	325	8.90E-07	8.90E-07	-285
1948	1950	199	41551.71	0.017	199.1797	199.5	-2.33E-06	-1.49E-06	-3.18E-06	-852	-545	-1160	307	307	8.42E-07	8.42E-07	-36
1948	1950	200	41551.62	0.018	200.1804	200.5	-3.06E-06	-2.14E-06	-3.97E-06	-1116	-782	-1449	334	334	9.15E-07	9.15E-07	-30
1948	1950	201	41551.49	0.02	201.1811	201.5	-3.75E-06	-2.86E-06	-4.64E-06	-1370	-1045	-1695	325	325	8.90E-07	8.90E-07	-24
1948	1950	202	41551.33	0.017	202.1818	202.5	-3.95E-06	-3.15E-06	-4.74E-06	-1441	-1151	-1731	290	290	7.94E-07	7.94E-07	-20
1948	1950	203	41551.17	0.016	203.1825	203.5	-3.08E-06	-2.29E-06	-3.87E-06	-1124	-835	-1414	290	290	7.94E-07	7.94E-07	-26
1948	1950	204	41551.04	0.017	204.1832	204.5	-1.90E-06	-1.13E-06	-2.67E-06	-694	-413	-975	281	281	7.70E-07	7.70E-07	-41
1948	1950	205	41550.96	0.015	205.1839	205.5	-2.60E-06	-1.88E-06	-3.32E-06	-949	-685	-1212	264	264	7.22E-07	7.22E-07	-28
1948	1950	206	41550.85	0.015	206.1846	206.5	-3.61E-06	-2.91E-06	-4.31E-06	-1318	-1063	-1572	255	255	6.98E-07	6.98E-07	-19
1948	1950	207	41550.7	0.014	207.1853	207.5	-3.80E-06	-3.69E-06	-3.91E-06	-1386	-1345	-1427	41	41	1.12E-07	1.12E-07	-3
1948	1950	213	41549.76	0.014	213.2092	213.5	-4.16E-06	-3.51E-06	-4.81E-06	-1520	-1283	-1757	237	237	6.50E-07	6.50E-07	-16
1948	1950	214	41549.58	0.013	214.2517	214.5	-3.19E-06	-2.83E-06	-3.55E-06	-1164	-1032	-1296	132	132	3.61E-07	3.61E-07	-11
1948	1950	216	41549.32	0.017	216.2111	216.5	-3.08E-06	-2.88E-06	-3.28E-06	-1124	-1052	-1197	72	72	1.99E-07	1.99E-07	-6
1948	1950	220	41548.81	0.016	220.2144	220.5	-2.01E-06	-1.81E-06	-2.21E-06	-734	-659	-808	75	75	2.05E-07	2.05E-07	-10
1948	1950	224	41548.47	0.018	224.4255	224.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####	#NUM!	#NUM!	#####

1948	1951	142	12029.36	0.017	142.1825	142.5	-7.56E-06	-4.74E-06	-1.04E-05	-2761	-1730	-3793	1032	1032	2.83E-06	2.83E-06	-37
1948	1951	143	12029.27	0.017	143.1832	143.5	-7.61E-06	-7.37E-06	-7.84E-06	-2776	-2691	-2862	86	86	2.36E-07	2.36E-07	-3
1948	1951	155	12028.17	0.017	155.17	155.5	-7.48E-06	-4.49E-06	-1.05E-05	-2731	-1639	-3824	1092	1092	2.99E-06	2.99E-06	-40
1948	1951	156	12028.08	0.019	156.1707	156.5	-7.90E-06	-4.82E-06	-1.10E-05	-2883	-1760	-4006	1123	1123	3.08E-06	3.08E-06	-39
1948	1951	157	12027.98	0.018	157.1714	157.5	-7.15E-06	-4.07E-06	-1.02E-05	-2610	-1487	-3733	1123	1123	3.08E-06	3.08E-06	-43
1948	1951	158	12027.9	0.019	158.1721	158.5	-6.57E-06	-3.41E-06	-9.73E-06	-2397	-1244	-3551	1153	1153	3.16E-06	3.16E-06	-48
1948	1951	159	12027.82	0.019	159.1728	159.5	-6.48E-06	-3.41E-06	-9.56E-06	-2367	-1244	-3490	1123	1123	3.08E-06	3.08E-06	-47
1948	1951	160	12027.74	0.018	160.1734	160.5	-6.24E-06	-2.99E-06	-9.48E-06	-2276	-1092	-3460	1184	1184	3.24E-06	3.24E-06	-52
1948	1951	161	12027.67	0.021	161.1741	161.5	-4.07E-06	-7.48E-07	-7.40E-06	-1487	-273	-2701	1214	1214	3.33E-06	3.33E-06	-82
1948	1951	162	12027.62	0.019	162.1748	162.5	6.65E-07	3.82E-06	-2.49E-06	243	1396	-910	1153	1153	3.16E-06	3.16E-06	475
1948	1951	163	12027.63	0.019	163.1755	163.5	-1.08E-06	2.16E-06	-4.32E-06	-395	789	-1578	1184	1184	3.24E-06	3.24E-06	-300
1948	1951	164	12027.61	0.02	164.1762	164.5	-2.66E-06	5.82E-07	-5.90E-06	-971	212	-2155	1184	1184	3.24E-06	3.24E-06	-122
1948	1951	165	12027.58	0.019	165.1769	165.5	-1.75E-06	1.41E-06	-4.91E-06	-637	516	-1790	1153	1153	3.16E-06	3.16E-06	-181
1948	1951	166	12027.56	0.019	166.1776	166.5	-3.66E-06	-4.99E-07	-6.82E-06	-1335	-182	-2488	1153	1153	3.16E-06	3.16E-06	-86
1948	1951	167	12027.52	0.019	167.1783	167.5	-4.99E-06	-1.75E-06	-8.23E-06	-1821	-637	-3004	1184	1184	3.24E-06	3.24E-06	-65
1948	1951	168	12027.46	0.02	168.179	168.5	-3.16E-06	8.31E-08	-6.40E-06	-1153	30	-2337	1184	1184	3.24E-06	3.24E-06	-103
1948	1951	169	12027.42	0.019	169.1797	169.5	-1.50E-06	1.50E-06	-4.49E-06	-546	546	-1639	1093	1093	2.99E-06	2.99E-06	-200
1948	1951	170	12027.4	0.017	170.1804	170.5	-4.32E-06	-1.66E-06	-6.98E-06	-1578	-607	-2549	971	971	2.66E-06	2.66E-06	-62
1948	1951	171	12027.35	0.015	171.1811	171.5	-4.66E-06	-2.08E-06	-7.23E-06	-1699	-759	-2640	941	941	2.58E-06	2.58E-06	-55
1948	1951	172	12027.29	0.016	172.1818	172.5	-9.98E-07	2.00E-06	-3.99E-06	-364	728	-1457	1093	1093	2.99E-06	2.99E-06	-300
1948	1951	173	12027.28	0.02	173.1825	173.5	4.99E-07	3.66E-06	-2.66E-06	182	1335	-971	1153	1153	3.16E-06	3.16E-06	633
1948	1951	174	12027.29	0.018	174.1832	174.5	2.99E-06	6.15E-06	-1.66E-07	1093	2246	-61	1153	1153	3.16E-06	3.16E-06	106
1948	1951	175	12027.32	0.02	175.1839	175.5	-6.15E-06	-3.08E-06	-9.23E-06	-2246	-1123	-3369	1123	1123	3.08E-06	3.08E-06	-50
1948	1951	176	12027.25	0.017	176.1846	176.5	-4.82E-06	-1.83E-06	-7.82E-06	-1760	-668	-2853	1093	1093	2.99E-06	2.99E-06	-62
1948	1951	177	12027.19	0.019	177.1853	177.5	-1.13E-05	-8.23E-06	-1.44E-05	-4127	-3004	-5250	1123	1123	3.08E-06	3.08E-06	-27
1948	1951	178	12027.05	0.018	178.1859	178.5	-9.15E-06	-5.99E-06	-1.23E-05	-3338	-2185	-4492	1153	1153	3.16E-06	3.16E-06	-35
1948	1951	179	12026.94	0.02	179.1866	179.5	-9.98E-06	-6.90E-06	-1.31E-05	-3642	-2519	-4765	1123	1123	3.08E-06	3.08E-06	-31
1948	1951	180	12026.82	0.017	180.1873	180.5	-1.07E-05	-7.90E-06	-1.36E-05	-3915	-2883	-4947	1032	1032	2.83E-06	2.83E-06	-26
1948	1951	181	12026.69	0.017	181.188	181.5	-6.90E-06	-4.24E-06	-9.56E-06	-2519	-1548	-3490	971	971	2.66E-06	2.66E-06	-39
1948	1951	182	12026.61	0.015	182.1679	182.5	-1.75E-05	-1.49E-05	-2.02E-05	-6404	-5433	-7375	971	971	2.66E-06	2.66E-06	-15
1948	1951	183	12026.4	0.017	183.1686	183.5	-9.40E-06	-6.57E-06	-1.22E-05	-3430	-2398	-4461	1032	1032	2.83E-06	2.83E-06	-30
1948	1951	184	12026.29	0.017	184.1693	184.5	-1.17E-05	-8.65E-06	-1.48E-05	-4279	-3156	-5402	1123	1123	3.08E-06	3.08E-06	-26
1948	1951	185	12026.15	0.02	185.17	185.5	-1.06E-05	-7.65E-06	-1.35E-05	-3855	-2792	-4917	1062	1062	2.91E-06	2.91E-06	-28
1948	1951	186	12026.02	0.015	186.1707	186.5	-1.08E-05	-8.23E-06	-1.34E-05	-3946	-3005	-4887	941	941	2.58E-06	2.58E-06	-24
1948	1951	187	12025.89	0.016	187.1714	187.5	-1.11E-05	-8.32E-06	-1.38E-05	-4037	-3035	-5038	1002	1002	2.74E-06	2.74E-06	-25
1948	1951	188	12025.76	0.017	188.1721	188.5	-1.10E-05	-8.23E-06	-1.37E-05	-4006	-3005	-5008	1002	1002	2.74E-06	2.74E-06	-25
1948	1951	189	12025.62	0.016	189.1728	189.5	-1.43E-05	-1.14E-05	-1.72E-05	-5221	-4158	-6283	1062	1062	2.91E-06	2.91E-06	-20
1948	1951	190	12025.45	0.019	190.1734	190.5	-4.01E-05	-3.68E-05	-4.33E-05	-14630	-13446	-15814	1184	1184	3.24E-06	3.24E-06	-8
1948	1951	191	12024.97	0.02	191.1741	191.5	-8.15E-06	-4.74E-06	-1.16E-05	-2975	-1730	-4219	1244	1244	3.41E-06	3.41E-06	-42
1948	1951	192	12024.87	0.021	192.1748	192.5	-6.90E-06	-3.66E-06	-1.01E-05	-2519	-1336	-3703	1184	1184	3.24E-06	3.24E-06	-47
1948	1951	193	12024.79	0.018	193.1755	193.5	-8.65E-06	-5.74E-06	-1.16E-05	-3157	-2094	-4219	1062	1062	2.91E-06	2.91E-06	-34
1948	1951	194	12024.69	0.017	194.1762	194.5	-9.40E-06	-6.40E-06	-1.24E-05	-3430	-2337	-4523	1093	1093	2.99E-06	2.99E-06	-32
1948	1951	195	12024.57	0.019	195.1769	195.5	-1.28E-05	-9.73E-06	-1.59E-05	-4675	-3552	-5798	1123	1123	3.08E-06	3.08E-06	-24
1948	1951	196	12024.42	0.018	196.1776	196.5	-1.21E-05	-9.06E-06	-1.51E-05	-4401	-3309	-5494	1093	1093	2.99E-06	2.99E-06	-25
1948	1951	197	12024.27	0.018	197.1783	197.5	-1.06E-05	-7.65E-06	-1.35E-05	-3855	-2793	-4918	1062	1062	2.91E-06	2.91E-06	-28
1948	1951	198	12024.15	0.017	198.179	198.5	-9.65E-06	-6.90E-06	-1.24E-05	-3521	-2520	-4523	1002	1002	2.74E-06	2.74E-06	-28
1948	1951	199	12024.03	0.016	199.1797	199.5	-6.49E-06	-3.83E-06	-9.15E-06	-2368	-1396	-3339	971	971	2.66E-06	2.66E-06	-41
1948	1951	200	12023.95	0.016	200.1804	200.5	-9.98E-06	-7.15E-06	-1.28E-05	-3643	-2611	-4675	1032	1032	2.83E-06	2.83E-06	-28
1948	1951	201	12023.83	0.018	201.1811	201.5	-7.82E-06	-5.07E-06	-1.06E-05	-2854	-1852	-3855	1002	1002	2.74E-06	2.74E-06	-35
1948	1951	202	12023.74	0.015	202.1818	202.5	-9.40E-06	-6.90E-06	-1.19E-05	-3430	-2520	-4341	911	911	2.50E-06	2.50E-06	-27
1948	1951	203	12023.63	0.015	203.1825	203.5	-6.99E-06	-4.49E-06	-9.48E-06	-2550	-1639	-3461	911	911	2.50E-06	2.50E-06	-36
1948	1951	204	12023.54	0.015	204.1832	204.5	-6.40E-06	-3.91E-06	-8.90E-06	-2338	-1427	-3248	911	911	2.50E-06	2.50E-06	-39
1948	1951	205	12023.46	0.015	205.1839	205.5	-7.40E-06	-4.91E-06	-9.90E-06	-2702	-1791	-3613	911	911	2.50E-06	2.50E-06	-34
1948	1951	206	12023.38	0.015	206.1846	206.5	-1.01E-05	-7.73E-06	-1.26E-05	-3704	-2823	-4584	880	880	2.41E-06	2.41E-06	-24
1948	1951	207	12023.25	0.014	207.1853	207.5	-6.65E-06	-6.28E-06	-7.03E-06	-2429	-2292	-2565	137	137	3.74E-07	3.74E-07	-6
1948	1951	213	12022.77	0.013	213.2092	213.5	-6.07E-06	-3.91E-06	-8.23E-06	-2216	-1427	-3006	789	789	2.16E-06	2.16E-06	-36
1948	1951	214	12022.7	0.013	214.2517	214.5	-4.03E-06	-2.79E-06	-5.28E-06	-1472	-1017	-1928	455	455	1.25E-06	1.25E-06	-31
1948	1951	216	12022.6	0.017	216.2111	216.5	-5.36E-06	-4.70E-06	-6.03E-06	-1958	-1715	-2201	243	243	6.65E-07	6.65E-07	-12
1948	1951	220	12022.35	0.015	220.2144	220.5	-7.42E-06	-6.65E-06	-8.19E-06	-2710	-2429	-2991	281	281	7.69E-07	7.69E-07	-10
1948	1951	224	12021.99	0.022	224.4255	224.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1948	1956	142	29136.38	0.016	142.1825	142.5	-4.19E-06	-3.09E-06	-5.29E-06	-1528	-1127	-1929	401	401	1.10E-06	1.10E-06	-26
1948	1956	143	29136.26	0.016	143.1832	143.5	-4.25E-06	-4.16E-06	-4.34E-06	-1551	-1519	-1584	32	32	8.87E-08	8.87E-08	-2
1948	1956	155	29134.77	0.015	155.17	155.5	-4.22E-06	-3.23E-06	-5.22E-06	-1541	-1178	-1904	363	363	9.95E-07	9.95E-07	-24
1948	1956	156	29134.65	0.014	156.1707	156.5	-4.36E-06	-3.43E-06	-5.29E-06	-1591	-1253	-1929	338	338	9.27E-07	9.27E-07	-21
1948	1956	157	29134.52	0.013	157.1714	157.5	-4.08E-06	-3.12E-06	-5.05E-06	-1491	-1140	-1842	351	351	9.61E-07	9.61E-07	-24
1948	1956	158	29134.4	0.015	158.1721	158.5	-3.81E-06	-2.75E-06	-4.87E-06	-1391	-1002	-1779	388	388	1.06E-06	1.06E-06	-28
1948	1956	159	29134.29	0.016	159.1728	159.5	-3.78E-06	-2.75E-06	-4.81E-06	-1378	-1002	-1754	376	376	1.03E-06	1.03E-06	-27
1948	1956	160	29134.18	0.014	160.1734	160.5	-3.67E-06	-2.54E-06	-4.81E-06	-1341	-927	-1754	413	413	1.13E-06	1.13E-06	-31
1948	1956	161	29134.07	0.019	161.1741	161.5	-2.78E-06	-1.54E-06	-4.02E-06	-1015	-564	-1466	451	451	1.24E-06	1.24E-06	-44
1948	1956	162	29133.99	0.017	162.1748	162.5	-6.52E-07	4.81E-07	-1.78E-06	-238	175	-651	413	413	1.13E-06	1.13E-06	-174
1948	1956	163	29133.97	0.016	163.1755	163.5	-1.48E-06	-3.78E-07	-2.57E-06	-539	-138	-940	401	401	1.10E-06	1.10E-06	-74
1948	1956	164	29133.93	0.016	164.1762	164.5	-2.06E-06	-1.03E-06	-3.09E-06	-752	-376	-1128	376	376	1.03E-06	1.03E-06	-50
1948	1956	165	29133.87	0.014	165.1769	165.5	-1.65E-06	-6.52E-07	-2.64E-06	-601	-238	-965	363	363	9.95E-07	9.95E-07	-60
1948	1956	166	29133.82	0.015	166.1776	166.5	-2.44E-06	-1.37E-06	-3.50E-06	-890	-501	-1278	388	388	1.06E-06	1.06E-06	-44
1948	1956	167	29133.75	0.016	167.1783	167.5	-3.12E-06	-2.03E-06	-4.22E-06	-1140	-739	-1541	401	401	1.10E-06	1.10E-06	-35
1948	1956	168	29133.66	0.016	168.179	168.5	-1.99E-06	-9.27E-07	-3.05E-06	-727	-338	-1115	388	388	1.06E-06	1.06E-06	-53
1948	1956	169	29133.6	0.015	169.1797	169.5	-1.78E-06	-7.55E-07	-2.81E-06	-651	-276	-1027	376	376	1.03E-06	1.03E-06	-58
1948	1956	170	29133.55	0.015	170.1804	170.5	-2.57E-06	-1.58E-06	-3.57E-06	-940	-576	-1303	363	363	9.95E-07	9.95E-07	-39
1948	1956	171	29133.47	0.014	171.1811	171.5	-2.88E-06	-1.92E-06	-3.84E-06	-1052	-702	-1403	351	351	9.61E-07	9.61E-07	-33
1948	1956	172	29133.39	0.014	172.1818	172.5	-1.41E-06	-3.09E-07	-2.51E-06	-514	-113	-915	401	401	1.10E-06	1.10E-06	-78
1948	1956	173	29133.35	0.018	173.1825	173.5	-7.55E-07	3.43E-07	-1.85E-06	-276	125	-677	401	401	1.10E-06	1.10E-06	-145
1948	1956	174	29133.33	0.014	174.1832	174.5	1.61E-06	2.61E-06	6.18E-07	589	952	226	363	363	9.95E-07	9.95E-07	62
1948	1956	175	29133.37	0.015	175.1839	175.5	0.00E+00	9.61E-07	-9.61E-07	0	351	-351	351	351	9.61E-07	9.61E-07	0
1948	1956	176	29133.37	0.013	176.1846	176.5	1.89E-06	2.85E-06	9.27E-07	689	1040	338	351	351	9.61E-07	9.61E-07	51
1948	1956	177	29133.43	0.015	177.1853	177.5	-8.92E-07	6.86E-08	-1.85E-06	-326	25	-677	351	351	9.61E-07	9.61E-07	-108
1948	1956	178	29133.4	0.013	178.1859	178.5	-9.95E-07	-3.43E-08	-1.96E-06	-363	-13	-714	351	351	9.61E-07	9.61E-07	-97
1948	1956	179	29133.37	0.015	179.1866	179.5	-1.44E-06	-4.12E-07	-2.47E-06	-526	-150	-902	376	376	1.03E-06	1.03E-06	-71
1948	1956	180	29133.33	0.015	180.1873	180.5	-5.25E-06	-4.26E-06	-6.25E-06	-1917	-1554	-2280	363	363	9.95E-07	9.95E-07	-19
1948	1956	181	29133.18	0.014	181.188	181.5	-3.26E-06	-2.30E-06	-4.22E-06	-1190	-839	-1541	351	351	9.61E-07	9.61E-07	-29
1948	1956	182	29133.08	0.014	182.1679	182.5	-6.83E-06	-5.87E-06	-7.79E-06	-2493	-2142	-2844	351	351	9.61E-07	9.61E-07	-14
1948	1956	183	29132.89	0.014	183.1686	183.5	-3.57E-06	-2.61E-06	-4.53E-06	-1303	-952	-1654	351	351	9.61E-07	9.61E-07	-27
1948	1956	184	29132.78	0.014	184.1693	184.5	-5.35E-06	-4.29E-06	-6.42E-06	-1955	-1566	-2343	388	388	1.06E-06	1.06E-06	-20
1948	1956	185	29132.63	0.017	185.17	185.5	-4.98E-06	-3.84E-06	-6.11E-06	-1817	-1403	-2230	413	413	1.13E-06	1.13E-06	-23
1948	1956	186	29132.48	0.016	186.1707	186.5	-5.66E-06	-4.60E-06	-6.73E-06	-2067	-1679	-2456	388	388	1.06E-06	1.06E-06	-19
1948	1956	187	29132.32	0.015	187.1714	187.5	-4.94E-06	-3.88E-06	-6.01E-06	-1804	-1416	-2193	388	388	1.06E-06	1.06E-06	-22
1948	1956	188	29132.17	0.016	188.1721	188.5	-3.71E-06	-2.64E-06	-4.77E-06	-1353	-965	-1742	388	388	1.06E-06	1.06E-06	-29
1948	1956	189	29132.06	0.015	189.1728	189.5	-3.43E-06	-2.37E-06	-4.50E-06	-1253	-865	-1641	388	388	1.06E-06	1.06E-06	-31
1948	1956	190	29131.96	0.016	190.1734	190.5	-2.85E-06	-1.65E-06	-4.05E-06	-1040	-601	-1478	439	439	1.20E-06	1.20E-06	-42
1948	1956	191	29131.88	0.019	191.1741	191.5	-1.89E-06	-6.18E-07	-3.16E-06	-689	-226	-1153	464	464	1.27E-06	1.27E-06	-67
1948	1956	192	29131.83	0.018	192.1748	192.5	-2.40E-06	-1.20E-06	-3.60E-06	-877	-439	-1316	439	439	1.20E-06	1.20E-06	-50
1948	1956	193	29131.76	0.017	193.1755	193.5	-4.33E-06	-3.19E-06	-5.46E-06	-1579	-1165	-1992	413	413	1.13E-06	1.13E-06	-26
1948	1956	194	29131.63	0.016	194.1762	194.5	-5.11E-06	-3.95E-06	-6.28E-06	-1867	-1441	-2293	426	426	1.17E-06	1.17E-06	-23
1948	1956	195	29131.48	0.018	195.1769	195.5	-7.04E-06	-5.84E-06	-8.24E-06	-2569	-2130	-3007	439	439	1.20E-06	1.20E-06	-17
1948	1956	196	29131.28	0.017	196.1776	196.5	-6.04E-06	-4.87E-06	-7.21E-06	-2205	-1779	-2631	426	426	1.17E-06	1.17E-06	-19
1948	1956	197	29131.1	0.017	197.1783	197.5	-5.84E-06	-4.67E-06	-7.00E-06	-2130	-1704	-2556	426	426	1.17E-06	1.17E-06	-20
1948	1956	198	29130.93	0.017	198.179	198.5	-7.90E-07	3.09E-07	-1.89E-06	-288	113	-689	401	401	1.10E-06	1.10E-06	-139
1948	1956	199	29130.91	0.015	199.1797	199.5	-3.47E-06	-2.44E-06	-4.50E-06	-1265	-890	-1641	376	376	1.03E-06	1.03E-06	-30
1948	1956	200	29130.81	0.015	200.1804	200.5	-4.15E-06	-3.66E-06	-4.65E-06	-1516	-1334	-1698	182	182	4.98E-07	4.98E-07	-12
1948	1956	202	29130.56	0.014	202.1818	202.5	-4.43E-06	-3.47E-06	-5.39E-06	-1616	-1266	-1967	351	351	9.61E-07	9.61E-07	-22
1948	1956	203	29130.43	0.014	203.1825	203.5	-2.75E-06	-1.79E-06	-3.71E-06	-1002	-652	-1353	351	351	9.61E-07	9.61E-07	-35
1948	1956	204	29130.35	0.014	204.1832	204.5	-1.51E-06	-5.15E-07	-2.51E-06	-551	-188	-915	363	363	9.96E-07	9.96E-07	-66
1948	1956	205	29130.31	0.015	205.1839	205.5	-2.78E-06	-1.79E-06	-3.78E-06	-1015	-652	-1378	363	363	9.96E-07	9.96E-07	-36
1948	1956	206	29130.23	0.014	206.1846	206.5	-4.33E-06	-3.40E-06	-5.25E-06	-1579	-1240	-1917	338	338	9.27E-07	9.27E-07	-21
1948	1956	207	29130.1	0.013	207.1853	207.5	-3.99E-06	-3.86E-06	-4.11E-06	-1455	-1411	-1500	45	45	1.23E-07	1.23E-07	-3
1948	1956	214	29129.29	0.012	214.2517	214.5	-3.07E-06	-2.61E-06	-3.54E-06	-1121	-952	-1291	169	169	4.63E-07	4.63E-07	-15
1948	1956	216	29129.11	0.015	216.2111	216.5	-2.71E-06	-2.46E-06	-2.96E-06	-990	-899	-1081	91	91	2.49E-07	2.49E-07	-9
1948	1956	220	29128.8	0.014	220.2144	220.5	-1.73E-06	-1.45E-06	-2.02E-06	-633	-529	-736	103	103	2.83E-07	2.83E-07	-16
1948	1956	224	29128.59	0.019	224.4255	224.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1948	1957	142	5753.043	0.017	142.1825	142.5	-1.06E-05	-4.69E-06	-1.65E-05	-3870	-1713	-6027	2157	2157	5.91E-06	5.91E-06	-56
1948	1957	143	5752.982	0.017	143.1832	143.5	-1.08E-05	-1.03E-05	-1.13E-05	-3939	-3759	-4119	180	180	4.93E-07	4.93E-07	-5
1948	1957	155	5752.237	0.017	155.17	155.5	-1.04E-05	-4.52E-06	-1.63E-05	-3807	-1650	-5965	2157	2157	5.91E-06	5.91E-06	-57
1948	1957	156	5752.177	0.017	156.1707	156.5	-1.13E-05	-5.74E-06	-1.69E-05	-4125	-2094	-6155	2031	2031	5.56E-06	5.56E-06	-49
1948	1957	157	5752.112	0.015	157.1714	157.5	-1.01E-05	-4.52E-06	-1.56E-05	-3680	-1650	-5711	2031	2031	5.56E-06	5.56E-06	-55
1948	1957	158	5752.054	0.017	158.1721	158.5	-9.56E-06	-3.48E-06	-1.56E-05	-3490	-1269	-5711	2221	2221	6.08E-06	6.08E-06	-64
1948	1957	159	5751.999	0.018	159.1728	159.5	-9.04E-06	-2.96E-06	-1.51E-05	-3300	-1079	-5521	2221	2221	6.08E-06	6.08E-06	-67
1948	1957	160	5751.947	0.017	160.1734	160.5	-8.69E-06	-2.61E-06	-1.48E-05	-3173	-952	-5394	2221	2221	6.08E-06	6.08E-06	-70
1948	1957	161	5751.897	0.018	161.1741	161.5	-4.69E-06	1.56E-06	-1.10E-05	-1713	571	-3998	2284	2284	6.26E-06	6.26E-06	-133
1948	1957	162	5751.87	0.018	162.1748	162.5	3.30E-06	9.56E-06	-2.96E-06	1206	3490	-1079	2284	2284	6.26E-06	6.26E-06	189
1948	1957	163	5751.889	0.018	163.1755	163.5	-1.22E-06	4.87E-06	-7.30E-06	-444	1777	-2665	2221	2221	6.08E-06	6.08E-06	-500
1948	1957	164	5751.882	0.017	164.1762	164.5	-3.65E-06	2.09E-06	-9.39E-06	-1333	761	-3427	2094	2094	5.74E-06	5.74E-06	-157
1948	1957	165	5751.861	0.016	165.1769	165.5	-1.39E-06	4.17E-06	-6.95E-06	-508	1523	-2538	2031	2031	5.56E-06	5.56E-06	-400
1948	1957	166	5751.853	0.016	166.1776	166.5	-5.91E-06	-3.48E-07	-1.15E-05	-2158	-127	-4188	2031	2031	5.56E-06	5.56E-06	-94
1948	1957	167	5751.819	0.016	167.1783	167.5	-7.30E-06	-1.74E-06	-1.29E-05	-2665	-635	-4696	2031	2031	5.56E-06	5.56E-06	-76
1948	1957	168	5751.777	0.016	168.179	168.5	-5.04E-06	8.69E-07	-1.10E-05	-1840	317	-3998	2158	2158	5.91E-06	5.91E-06	-117
1948	1957	169	5751.748	0.018	169.1797	169.5	-1.91E-06	3.82E-06	-7.65E-06	-698	1396	-2792	2094	2094	5.74E-06	5.74E-06	-300
1948	1957	170	5751.737	0.015	170.1804	170.5	-6.95E-06	-1.56E-06	-1.23E-05	-2538	-571	-4506	1967	1967	5.39E-06	5.39E-06	-78
1948	1957	171	5751.697	0.016	171.1811	171.5	-7.82E-06	-2.09E-06	-1.36E-05	-2856	-762	-4950	2094	2094	5.74E-06	5.74E-06	-73
1948	1957	172	5751.652	0.017	172.1818	172.5	-1.56E-06	4.52E-06	-7.65E-06	-571	1650	-2792	2221	2221	6.09E-06	6.09E-06	-389
1948	1957	173	5751.643	0.018	173.1825	173.5	-3.48E-07	5.74E-06	-6.43E-06	-127	2094	-2348	2221	2221	6.09E-06	6.09E-06	-1750
1948	1957	174	5751.641	0.017	174.1832	174.5	3.48E-06	9.21E-06	-2.26E-06	1269	3363	-825	2094	2094	5.74E-06	5.74E-06	165
1948	1957	175	5751.661	0.016	175.1839	175.5	-6.78E-06	-1.39E-06	-1.22E-05	-2475	-508	-4442	1967	1967	5.39E-06	5.39E-06	-79
1948	1957	176	5751.622	0.015	176.1846	176.5	-1.36E-05	-8.17E-06	-1.90E-05	-4950	-2983	-6917	1967	1967	5.39E-06	5.39E-06	-40
1948	1957	177	5751.544	0.016	177.1853	177.5	-2.61E-05	-2.05E-05	-3.16E-05	-9519	-7489	-11550	2031	2031	5.56E-06	5.56E-06	-21
1948	1957	178	5751.394	0.016	178.1859	178.5	-1.67E-05	-1.13E-05	-2.21E-05	-6092	-4125	-8060	1967	1967	5.39E-06	5.39E-06	-32
1948	1957	179	5751.298	0.015	179.1866	179.5	-1.55E-05	-9.91E-06	-2.10E-05	-5648	-3617	-7679	2031	2031	5.56E-06	5.56E-06	-36
1948	1957	180	5751.209	0.017	180.1873	180.5	-1.65E-05	-1.06E-05	-2.24E-05	-6029	-3871	-8187	2158	2158	5.91E-06	5.91E-06	-36
1948	1957	181	5751.114	0.017	181.188	181.5	-1.84E-05	-1.27E-05	-2.42E-05	-6727	-4633	-8822	2094	2094	5.74E-06	5.74E-06	-31
1948	1957	182	5751.008	0.016	182.1679	182.5	-2.47E-05	-1.90E-05	-3.04E-05	-9012	-6918	-11107	2094	2094	5.74E-06	5.74E-06	-23
1948	1957	183	5750.866	0.017	183.1686	183.5	-1.50E-05	-9.39E-06	-2.05E-05	-5458	-3427	-7489	2031	2031	5.56E-06	5.56E-06	-37
1948	1957	184	5750.78	0.015	184.1693	184.5	-1.36E-05	-8.00E-06	-1.91E-05	-4951	-2920	-6982	2031	2031	5.56E-06	5.56E-06	-41
1948	1957	185	5750.702	0.017	185.17	185.5	-1.30E-05	-7.48E-06	-1.86E-05	-4760	-2729	-6791	2031	2031	5.56E-06	5.56E-06	-43
1948	1957	186	5750.627	0.015	186.1707	186.5	-1.37E-05	-8.52E-06	-1.90E-05	-5014	-3110	-6918	1904	1904	5.22E-06	5.22E-06	-38
1948	1957	187	5750.548	0.015	187.1714	187.5	-1.57E-05	-1.03E-05	-2.10E-05	-5713	-3745	-7680	1968	1968	5.39E-06	5.39E-06	-34
1948	1957	188	5750.458	0.016	188.1721	188.5	-1.43E-05	-8.70E-06	-1.98E-05	-5205	-3174	-7236	2031	2031	5.56E-06	5.56E-06	-39
1948	1957	189	5750.376	0.016	189.1728	189.5	-1.34E-05	-7.65E-06	-1.91E-05	-4888	-2793	-6982	2095	2095	5.74E-06	5.74E-06	-43
1948	1957	190	5750.299	0.017	190.1734	190.5	-3.97E-05	-3.30E-05	-4.63E-05	-14473	-12060	-16885	2412	2412	6.61E-06	6.61E-06	-17
1948	1957	191	5750.071	0.021	191.1741	191.5	-3.32E-05	-2.61E-05	-4.03E-05	-12124	-9522	-14727	2603	2603	7.13E-06	7.13E-06	-21
1948	1957	192	5749.88	0.02	192.1748	192.5	-1.39E-05	-7.48E-06	-2.03E-05	-5078	-2730	-7427	2349	2349	6.43E-06	6.43E-06	-46
1948	1957	193	5749.8	0.017	193.1755	193.5	-1.27E-05	-6.78E-06	-1.86E-05	-4634	-2476	-6792	2158	2158	5.91E-06	5.91E-06	-47
1948	1957	194	5749.727	0.017	194.1762	194.5	-1.37E-05	-7.65E-06	-1.98E-05	-5015	-2793	-7237	2222	2222	6.09E-06	6.09E-06	-44
1948	1957	195	5749.648	0.018	195.1769	195.5	-1.65E-05	-1.04E-05	-2.26E-05	-6031	-3809	-8253	2222	2222	6.09E-06	6.09E-06	-37
1948	1957	196	5749.553	0.017	196.1776	196.5	-1.48E-05	-8.35E-06	-2.12E-05	-5396	-3047	-7745	2349	2349	6.44E-06	6.44E-06	-44
1948	1957	197	5749.468	0.02	197.1783	197.5	-1.55E-05	-9.04E-06	-2.19E-05	-5650	-3301	-7999	2349	2349	6.44E-06	6.44E-06	-42
1948	1957	198	5749.379	0.017	198.179	198.5	-4.35E-06	1.22E-06	-9.91E-06	-1587	444	-3619	2032	2032	5.57E-06	5.57E-06	-128
1948	1957	199	5749.354	0.015	199.1797	199.5	-1.13E-05	-5.91E-06	-1.67E-05	-4127	-2159	-6095	1968	1968	5.39E-06	5.39E-06	-48
1948	1957	200	5749.289	0.016	200.1804	200.5	-1.46E-05	-9.04E-06	-2.02E-05	-5333	-3301	-7364	2032	2032	5.57E-06	5.57E-06	-38
1948	1957	201	5749.205	0.016	201.1811	201.5	-1.37E-05	-8.52E-06	-1.90E-05	-5016	-3111	-6920	1905	1905	5.22E-06	5.22E-06	-38
1948	1957	202	5749.126	0.014	202.1818	202.5	-1.44E-05	-9.74E-06	-1.91E-05	-5270	-3555	-6984	1714	1714	4.70E-06	4.70E-06	-33
1948	1957	203	5749.043	0.013	203.1825	203.5	-1.43E-05	-9.39E-06	-1.91E-05	-5206	-3428	-6984	1778	1778	4.87E-06	4.87E-06	-34
1948	1957	204	5748.961	0.015	204.1832	204.5	-8.00E-06	-2.96E-06	-1.30E-05	-2921	-1079	-4762	1841	1841	5.04E-06	5.04E-06	-63
1948	1957	205	5748.915	0.014	205.1839	205.5	-1.30E-05	-8.18E-06	-1.79E-05	-4762	-2984	-6540	1778	1778	4.87E-06	4.87E-06	-37
1948	1957	206	5748.84	0.014	206.1846	206.5	-1.48E-05	-1.01E-05	-1.95E-05	-5397	-3683	-7111	1714	1714	4.70E-06	4.70E-06	-32
1948	1957	207	5748.755	0.013	207.1853	207.5	-1.17E-05	-1.10E-05	-1.25E-05	-4286	-4021	-4550	265	265	7.25E-07	7.25E-07	-6
1948	1957	213	5748.35	0.012	213.2092	213.5	-1.13E-05	-7.31E-06	-1.53E-05	-4127	-2667	-5588	1460	1460	4.00E-06	4.00E-06	-35
1948	1957	214	5748.285	0.011	214.2517	214.5	-1.15E-05	-8.96E-06	-1.40E-05	-4191	-3270	-5112	921	921	2.52E-06	2.52E-06	-22
1948	1957	216	5748.153	0.018	216.2111	216.5	-1.04E-05	-8.87E-06	-1.18E-05	-3778	-3238	-4318	540	540	1.48E-06	1.48E-06	-14
1948	1957	220	5747.915	0.016	220.2144	220.5	-2.16E-05	-2.00E-05	-2.32E-05	-7890	-7303	-8478	587	587	1.61E-06	1.61E-06	-7
1948	1957	224	5747.418	0.021	224.4255	224.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1948	7234	142	18314.19	0.016	142.1825	142.5	-1.69E-06	1.09E-07	-3.49E-06	-618	40	-1276	658	658	1.80E-06	1.80E-06	-106
1948	7234	143	18314.15	0.017	143.1832	143.5	-1.72E-06	-1.57E-06	-1.86E-06	-626	-573	-679	53	53	1.46E-07	1.46E-07	-8
1948	7234	155	18313.78	0.015	155.17	155.5	-1.58E-06	1.64E-07	-3.33E-06	-578	60	-1216	638	638	1.75E-06	1.75E-06	-110
1948	7234	156	18313.75	0.017	156.1707	156.5	-1.86E-06	-1.09E-07	-3.60E-06	-678	-40	-1315	638	638	1.75E-06	1.75E-06	-94
1948	7234	157	18313.71	0.015	157.1714	157.5	-1.53E-06	1.09E-07	-3.17E-06	-558	40	-1156	598	598	1.64E-06	1.64E-06	-107
1948	7234	158	18313.69	0.015	158.1721	158.5	-9.83E-07	6.01E-07	-2.57E-06	-359	219	-937	578	578	1.58E-06	1.58E-06	-161
1948	7234	159	18313.67	0.014	159.1728	159.5	-8.19E-07	7.64E-07	-2.40E-06	-299	279	-877	578	578	1.58E-06	1.58E-06	-193
1948	7234	160	18313.65	0.015	160.1734	160.5	-8.19E-07	8.74E-07	-2.51E-06	-299	319	-917	618	618	1.69E-06	1.69E-06	-207
1948	7234	161	18313.64	0.016	161.1741	161.5	7.64E-07	2.46E-06	-9.28E-07	279	897	-339	618	618	1.69E-06	1.69E-06	221
1948	7234	162	18313.65	0.015	162.1748	162.5	3.66E-06	5.30E-06	2.02E-06	1335	1933	737	598	598	1.64E-06	1.64E-06	45
1948	7234	163	18313.72	0.015	163.1755	163.5	2.73E-06	4.37E-06	1.09E-06	997	1594	399	598	598	1.64E-06	1.64E-06	60
1948	7234	164	18313.77	0.015	164.1762	164.5	1.75E-06	3.33E-06	1.64E-07	638	1216	60	578	578	1.58E-06	1.58E-06	91
1948	7234	165	18313.8	0.014	165.1769	165.5	2.29E-06	3.88E-06	7.10E-07	837	1415	259	578	578	1.58E-06	1.58E-06	69
1948	7234	166	18313.84	0.015	166.1776	166.5	9.83E-07	2.62E-06	-6.55E-07	359	957	-239	598	598	1.64E-06	1.64E-06	167
1948	7234	167	18313.86	0.015	167.1783	167.5	1.09E-07	1.75E-06	-1.53E-06	40	638	-558	598	598	1.64E-06	1.64E-06	1500
1948	7234	168	18313.86	0.015	168.179	168.5	1.42E-06	3.06E-06	-2.18E-07	518	1116	-80	598	598	1.64E-06	1.64E-06	115
1948	7234	169	18313.89	0.015	169.1797	169.5	2.13E-06	3.71E-06	5.46E-07	777	1355	199	578	578	1.58E-06	1.58E-06	74
1948	7234	170	18313.93	0.014	170.1804	170.5	6.01E-07	2.07E-06	-8.74E-07	219	757	-319	538	538	1.47E-06	1.47E-06	245
1948	7234	171	18313.94	0.013	171.1811	171.5	2.73E-07	1.80E-06	-1.26E-06	100	658	-458	558	558	1.53E-06	1.53E-06	560
1948	7234	172	18313.94	0.015	172.1818	172.5	2.40E-06	4.10E-06	7.10E-07	877	1495	259	618	618	1.69E-06	1.69E-06	70
1948	7234	173	18313.99	0.016	173.1825	173.5	3.77E-06	5.41E-06	2.13E-06	1375	1973	777	598	598	1.64E-06	1.64E-06	43
1948	7234	174	18314.06	0.014	174.1832	174.5	6.83E-06	8.41E-06	5.24E-06	2491	3069	1913	578	578	1.58E-06	1.58E-06	23
1948	7234	175	18314.18	0.015	175.1839	175.5	3.55E-06	5.19E-06	1.91E-06	1295	1893	698	598	598	1.64E-06	1.64E-06	46
1948	7234	176	18314.25	0.015	176.1846	176.5	4.42E-06	6.12E-06	2.73E-06	1614	2232	996	618	618	1.69E-06	1.69E-06	38
1948	7234	177	18314.33	0.016	177.1853	177.5	-3.28E-07	1.37E-06	-2.02E-06	-120	498	-737	618	618	1.69E-06	1.69E-06	-517
1948	7234	178	18314.32	0.015	178.1859	178.5	-7.10E-07	9.28E-07	-2.35E-06	-259	339	-857	598	598	1.64E-06	1.64E-06	-231
1948	7234	179	18314.31	0.015	179.1866	179.5	-1.42E-06	1.64E-07	-3.00E-06	-518	60	-1096	578	578	1.58E-06	1.58E-06	-112
1948	7234	180	18314.28	0.014	180.1873	180.5	-4.10E-06	-2.57E-06	-5.62E-06	-1495	-937	-2053	558	558	1.53E-06	1.53E-06	-37
1948	7234	181	18314.21	0.014	181.188	181.5	-1.26E-06	2.73E-07	-2.78E-06	-458	100	-1016	558	558	1.53E-06	1.53E-06	-122
1948	7234	182	18314.19	0.014	182.1679	182.5	-5.84E-06	-4.31E-06	-7.37E-06	-2133	-1574	-2691	558	558	1.53E-06	1.53E-06	-26
1948	7234	183	18314.08	0.014	183.1686	183.5	-1.47E-06	5.46E-08	-3.00E-06	-538	20	-1096	558	558	1.53E-06	1.53E-06	-104
1948	7234	184	18314.05	0.014	184.1693	184.5	-5.19E-06	-3.49E-06	-6.88E-06	-1893	-1276	-2511	618	618	1.69E-06	1.69E-06	-33
1948	7234	185	18313.96	0.017	185.17	185.5	-3.82E-06	-2.13E-06	-5.51E-06	-1395	-777	-2013	618	618	1.69E-06	1.69E-06	-44
1948	7234	186	18313.89	0.014	186.1707	186.5	-3.66E-06	-2.07E-06	-5.24E-06	-1335	-757	-1913	578	578	1.58E-06	1.58E-06	-43
1948	7234	187	18313.82	0.015	187.1714	187.5	-3.39E-06	-1.75E-06	-5.02E-06	-1236	-638	-1834	598	598	1.64E-06	1.64E-06	-48
1948	7234	188	18313.76	0.015	188.1721	188.5	-2.35E-06	-7.10E-07	-3.99E-06	-857	-259	-1455	598	598	1.64E-06	1.64E-06	-70
1948	7234	189	18313.71	0.015	189.1728	189.5	-2.62E-06	-8.74E-07	-4.37E-06	-957	-319	-1594	638	638	1.75E-06	1.75E-06	-67
1948	7234	190	18313.67	0.017	190.1734	190.5	-1.49E-05	-1.30E-05	-1.68E-05	-5441	-4743	-6139	698	698	1.91E-06	1.91E-06	-13
1948	7234	191	18313.39	0.018	191.1741	191.5	3.22E-06	5.13E-06	1.31E-06	1176	1873	478	698	698	1.91E-06	1.91E-06	59
1948	7234	192	18313.45	0.017	192.1748	192.5	1.64E-07	1.97E-06	-1.64E-06	60	718	-598	658	658	1.80E-06	1.80E-06	1100
1948	7234	193	18313.46	0.016	193.1755	193.5	-1.31E-06	4.37E-07	-3.06E-06	-478	159	-1116	638	638	1.75E-06	1.75E-06	-133
1948	7234	194	18313.43	0.016	194.1762	194.5	-2.62E-06	-8.19E-07	-4.42E-06	-957	-299	-1614	658	658	1.80E-06	1.80E-06	-69
1948	7234	195	18313.38	0.017	195.1769	195.5	-5.24E-06	-3.39E-06	-7.10E-06	-1913	-1236	-2591	678	678	1.86E-06	1.86E-06	-35
1948	7234	196	18313.29	0.017	196.1776	196.5	-4.59E-06	-2.73E-06	-6.44E-06	-1674	-997	-2352	678	678	1.86E-06	1.86E-06	-40
1948	7234	197	18313.2	0.017	197.1783	197.5	-3.60E-06	-1.75E-06	-5.46E-06	-1315	-638	-1993	678	678	1.86E-06	1.86E-06	-52
1948	7234	198	18313.14	0.017	198.179	198.5	1.42E-06	3.17E-06	-3.28E-07	518	1156	-120	638	638	1.75E-06	1.75E-06	123
1948	7234	199	18313.16	0.015	199.1797	199.5	-5.46E-08	1.64E-06	-1.75E-06	-20	598	-638	618	618	1.69E-06	1.69E-06	-3100
1948	7234	200	18313.16	0.016	200.1804	200.5	-1.91E-06	-1.09E-07	-3.71E-06	-698	-40	-1355	658	658	1.80E-06	1.80E-06	-94
1948	7234	201	18313.13	0.017	201.1811	201.5	-1.80E-06	-1.09E-07	-3.49E-06	-658	-40	-1276	618	618	1.69E-06	1.69E-06	-94
1948	7234	202	18313.09	0.014	202.1818	202.5	-3.11E-06	-1.64E-06	-4.59E-06	-1136	-598	-1674	538	538	1.47E-06	1.47E-06	-47
1948	7234	203	18313.04	0.013	203.1825	203.5	-1.80E-06	-3.28E-07	-3.28E-06	-658	-120	-1196	538	538	1.47E-06	1.47E-06	-82
1948	7234	204	18313	0.014	204.1832	204.5	-5.46E-08	1.47E-06	-1.58E-06	-20	538	-578	558	558	1.53E-06	1.53E-06	-2800
1948	7234	205	18313	0.014	205.1839	205.5	-6.01E-07	9.28E-07	-2.13E-06	-219	339	-777	558	558	1.53E-06	1.53E-06	-255
1948	7234	206	18312.99	0.014	206.1846	206.5	-2.57E-06	-1.15E-06	-3.99E-06	-937	-419	-1455	518	518	1.42E-06	1.42E-06	-55
1948	7234	207	18312.95	0.012	207.1853	207.5	-1.12E-06	-8.92E-07	-1.35E-06	-409	-326	-492	83	83	2.28E-07	2.28E-07	-20
1948	7234	213	18312.82	0.013	213.2092	213.5	-9.28E-07	3.82E-07	-2.24E-06	-339	140	-817	478	478	1.31E-06	1.31E-06	-141
1948	7234	214	18312.81	0.011	214.2517	214.5	3.28E-07	1.06E-06	-4.10E-07	120	389	-149	269	269	7.37E-07	7.37E-07	225
1948	7234	216	18312.82	0.016	216.2111	216.5	-2.59E-07	1.37E-07	-6.55E-07	-95	50	-239	145	145	3.96E-07	3.96E-07	-153
1948	7234	220	18312.8	0.013	220.2144	220.5	2.73E-08	4.64E-07	-4.10E-07	10	169	-149	159	159	4.37E-07	4.37E-07	1600
1948	7234	224	18312.8	0.019	224.4255	224.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####	#NUM!	#NUM!	#####

1948	7237	142	3699.271	0.016	142.1825	142.5	2.70E-07	8.92E-06	-8.38E-06	99	3256	-3059	3157	3157	8.65E-06	8.65E-06	3200
1948	7237	143	3699.272	0.016	143.1832	143.5	1.58E-07	9.24E-07	-6.08E-07	58	337	-222	280	280	7.66E-07	7.66E-07	486
1948	7237	155	3699.279	0.018	155.17	155.5	5.41E-07	1.00E-05	-8.92E-06	197	3651	-3256	3453	3453	9.46E-06	9.46E-06	1750
1948	7237	156	3699.281	0.017	156.1707	156.5	-5.41E-07	8.65E-06	-9.73E-06	-197	3157	-3552	3355	3355	9.19E-06	9.19E-06	-1700
1948	7237	157	3699.279	0.017	157.1714	157.5	8.11E-07	1.03E-05	-8.65E-06	296	3749	-3157	3453	3453	9.46E-06	9.46E-06	1167
1948	7237	158	3699.282	0.018	158.1721	158.5	2.70E-06	1.24E-05	-7.03E-06	987	4539	-2565	3552	3552	9.73E-06	9.73E-06	360
1948	7237	159	3699.292	0.018	159.1728	159.5	2.97E-06	1.30E-05	-7.03E-06	1085	4736	-2565	3651	3651	1.00E-05	1.00E-05	336
1948	7237	160	3699.303	0.019	160.1734	160.5	4.05E-06	1.46E-05	-6.49E-06	1480	5328	-2368	3848	3848	1.05E-05	1.05E-05	260
1948	7237	161	3699.318	0.02	161.1741	161.5	1.14E-05	2.16E-05	1.08E-06	4144	7893	395	3749	3749	1.03E-05	1.03E-05	90
1948	7237	162	3699.36	0.018	162.1748	162.5	2.46E-05	3.41E-05	1.51E-05	8978	12432	5525	3453	3453	9.46E-06	9.46E-06	38
1948	7237	163	3699.451	0.017	163.1755	163.5	1.78E-05	2.70E-05	8.65E-06	6512	9866	3157	3355	3355	9.19E-06	9.19E-06	52
1948	7237	164	3699.517	0.017	164.1762	164.5	1.16E-05	2.08E-05	2.43E-06	4242	7597	888	3354	3354	9.19E-06	9.19E-06	79
1948	7237	165	3699.56	0.017	165.1769	165.5	1.14E-05	2.03E-05	2.43E-06	4144	7399	888	3256	3256	8.92E-06	8.92E-06	79
1948	7237	166	3699.602	0.016	166.1776	166.5	6.76E-06	1.57E-05	-2.16E-06	2466	5722	-789	3256	3256	8.92E-06	8.92E-06	132
1948	7237	167	3699.627	0.017	167.1783	167.5	4.05E-06	1.30E-05	-4.87E-06	1480	4736	-1776	3256	3256	8.92E-06	8.92E-06	220
1948	7237	168	3699.642	0.016	168.179	168.5	8.65E-06	1.76E-05	-2.70E-07	3157	6413	-99	3256	3256	8.92E-06	8.92E-06	103
1948	7237	169	3699.674	0.017	169.1797	169.5	1.24E-05	2.16E-05	3.24E-06	4538	7893	1184	3354	3354	9.19E-06	9.19E-06	74
1948	7237	170	3699.72	0.017	170.1804	170.5	5.95E-06	1.46E-05	-2.70E-06	2170	5327	-987	3157	3157	8.65E-06	8.65E-06	145
1948	7237	171	3699.742	0.015	171.1811	171.5	4.32E-06	1.30E-05	-4.32E-06	1578	4735	-1578	3157	3157	8.65E-06	8.65E-06	200
1948	7237	172	3699.758	0.017	172.1818	172.5	1.38E-05	2.35E-05	4.05E-06	5031	8583	1480	3552	3552	9.73E-06	9.73E-06	71
1948	7237	173	3699.809	0.019	173.1825	173.5	1.68E-05	2.65E-05	7.03E-06	6116	9668	2565	3552	3552	9.73E-06	9.73E-06	58
1948	7237	174	3699.871	0.017	174.1832	174.5	2.30E-05	3.19E-05	1.41E-05	8385	11641	5130	3255	3255	8.92E-06	8.92E-06	39
1948	7237	175	3699.956	0.016	175.1839	175.5	9.73E-06	1.81E-05	1.35E-06	3551	6610	493	3058	3058	8.38E-06	8.38E-06	86
1948	7237	176	3699.992	0.015	176.1846	176.5	9.46E-06	1.76E-05	1.35E-06	3453	6412	493	2959	2959	8.11E-06	8.11E-06	86
1948	7237	177	3700.027	0.015	177.1853	177.5	-2.43E-06	5.68E-06	-1.05E-05	-888	2072	-3847	2959	2959	8.11E-06	8.11E-06	-333
1948	7237	178	3700.018	0.015	178.1859	178.5	1.89E-06	1.00E-05	-6.22E-06	691	3650	-2269	2959	2959	8.11E-06	8.11E-06	429
1948	7237	179	3700.025	0.015	179.1866	179.5	1.08E-06	9.46E-06	-7.30E-06	395	3453	-2663	3058	3058	8.38E-06	8.38E-06	775
1948	7237	180	3700.029	0.016	180.1873	180.5	5.41E-07	8.92E-06	-7.84E-06	197	3255	-2861	3058	3058	8.38E-06	8.38E-06	1550
1948	7237	181	3700.031	0.015	181.188	181.5	4.05E-06	1.19E-05	-3.78E-06	1480	4340	-1381	2861	2861	7.84E-06	7.84E-06	193
1948	7237	182	3700.046	0.014	182.1679	182.5	-1.35E-06	6.76E-06	-9.46E-06	-493	2466	-3453	2959	2959	8.11E-06	8.11E-06	-600
1948	7237	183	3700.041	0.016	183.1686	183.5	8.65E-06	1.70E-05	2.70E-07	3157	6215	99	3058	3058	8.38E-06	8.38E-06	97
1948	7237	184	3700.073	0.015	184.1693	184.5	-1.89E-06	6.49E-06	-1.03E-05	-691	2368	-3749	3058	3058	8.38E-06	8.38E-06	-443
1948	7237	185	3700.066	0.016	185.17	185.5	1.62E-06	1.00E-05	-6.76E-06	592	3650	-2466	3058	3058	8.38E-06	8.38E-06	517
1948	7237	186	3700.072	0.015	186.1707	186.5	8.11E-07	8.92E-06	-7.30E-06	296	3255	-2663	2959	2959	8.11E-06	8.11E-06	1000
1948	7237	187	3700.075	0.015	187.1714	187.5	-5.41E-07	7.57E-06	-8.65E-06	-197	2762	-3157	2959	2959	8.11E-06	8.11E-06	-1500
1948	7237	188	3700.073	0.015	188.1721	188.5	1.08E-06	9.19E-06	-7.03E-06	395	3354	-2565	2959	2959	8.11E-06	8.11E-06	750
1948	7237	189	3700.077	0.015	189.1728	189.5	9.73E-06	1.84E-05	1.08E-06	3551	6708	395	3157	3157	8.65E-06	8.65E-06	89
1948	7237	190	3700.113	0.017	190.1734	190.5	-4.05E-06	5.41E-06	-1.35E-05	-1480	1973	-4932	3453	3453	9.46E-06	9.46E-06	-233
1948	7237	191	3700.098	0.018	191.1741	191.5	-2.70E-06	7.03E-06	-1.24E-05	-986	2565	-4538	3551	3551	9.73E-06	9.73E-06	-360
1948	7237	192	3700.088	0.018	192.1748	192.5	1.89E-06	1.11E-05	-7.30E-06	691	4044	-2663	3354	3354	9.19E-06	9.19E-06	486
1948	7237	193	3700.095	0.016	193.1755	193.5	8.11E-07	9.46E-06	-7.84E-06	296	3453	-2861	3157	3157	8.65E-06	8.65E-06	1067
1948	7237	194	3700.098	0.016	194.1762	194.5	0.00E+00	9.19E-06	-9.19E-06	0	3354	-3354	3354	3354	9.19E-06	9.19E-06	0
1948	7237	195	3700.098	0.018	195.1769	195.5	-7.43E-06	-2.57E-06	-1.23E-05	-2713	-937	-4488	1776	1776	4.86E-06	4.86E-06	-65
1948	7237	197	3700.043	0.018	197.1783	197.5	-2.16E-06	7.03E-06	-1.14E-05	-789	2565	-4143	3354	3354	9.19E-06	9.19E-06	-425
1948	7237	198	3700.035	0.016	198.179	198.5	2.38E-05	3.24E-05	1.51E-05	8681	11838	5524	3157	3157	8.65E-06	8.65E-06	36
1948	7237	199	3700.123	0.016	199.1797	199.5	1.57E-05	2.43E-05	7.03E-06	5721	8878	2565	3157	3157	8.65E-06	8.65E-06	55
1948	7237	200	3700.181	0.016	200.1804	200.5	3.51E-06	1.24E-05	-5.41E-06	1282	4538	-1973	3255	3255	8.92E-06	8.92E-06	254
1948	7237	201	3700.194	0.017	201.1811	201.5	1.08E-06	9.46E-06	-7.30E-06	395	3453	-2663	3058	3058	8.38E-06	8.38E-06	775
1948	7237	202	3700.198	0.014	202.1818	202.5	-1.89E-06	5.68E-06	-9.46E-06	-691	2072	-3453	2762	2762	7.57E-06	7.57E-06	-400
1948	7237	203	3700.191	0.014	203.1825	203.5	2.43E-06	1.00E-05	-5.13E-06	888	3650	-1874	2762	2762	7.57E-06	7.57E-06	311
1948	7237	204	3700.2	0.014	204.1832	204.5	1.08E-05	1.84E-05	3.24E-06	3946	6708	1184	2762	2762	7.57E-06	7.57E-06	70
1948	7237	205	3700.24	0.014	205.1839	205.5	2.43E-06	1.03E-05	-5.41E-06	888	3748	-1973	2861	2861	7.84E-06	7.84E-06	322
1948	7237	206	3700.249	0.015	206.1846	206.5	-1.89E-06	5.68E-06	-9.46E-06	-690	2071	-3452	2762	2762	7.57E-06	7.57E-06	-400
1948	7237	207	3700.242	0.013	207.1853	207.5	9.01E-08	1.26E-06	-1.08E-06	33	460	-395	427	427	1.17E-06	1.17E-06	1300
1948	7237	213	3700.244	0.013	213.2092	213.5	-8.11E-07	5.95E-06	-7.57E-06	-296	2170	-2762	2466	2466	6.76E-06	6.76E-06	-833
1948	7237	214	3700.241	0.012	214.2517	214.5	2.30E-06	6.08E-06	-1.49E-06	838	2219	-543	1381	1381	3.78E-06	3.78E-06	165
1948	7237	216	3700.258	0.016	216.2111	216.5	3.78E-06	5.88E-06	1.69E-06	1381	2145	617	764	764	2.09E-06	2.09E-06	55
1948	7237	220	3700.314	0.015	220.2144	220.5	7.90E-06	1.04E-05	5.40E-06	2885	3798	1973	912	912	2.50E-06	2.50E-06	32
1948	7237	224	3700.431	0.022	224.4255	224.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1948	7239	142	20275.67	0.016	142.1825	142.5	-8.38E-06	-6.76E-06	-1.00E-05	-3060	-2466	-3654	594	594	1.63E-06	1.63E-06	-19
1948	7239	143	20275.5	0.017	143.1832	143.5	-8.48E-06	-8.35E-06	-8.61E-06	-3095	-3047	-3143	48	48	1.32E-07	1.32E-07	-2
1948	7239	155	20273.43	0.015	155.17	155.5	-8.43E-06	-6.91E-06	-9.96E-06	-3079	-2521	-3637	558	558	1.53E-06	1.53E-06	-18
1948	7239	156	20273.26	0.016	156.1707	156.5	-8.68E-06	-7.20E-06	-1.02E-05	-3169	-2629	-3709	540	540	1.48E-06	1.48E-06	-17
1948	7239	157	20273.09	0.014	157.1714	157.5	-8.19E-06	-6.71E-06	-9.67E-06	-2989	-2449	-3529	540	540	1.48E-06	1.48E-06	-18
1948	7239	158	20272.92	0.016	158.1721	158.5	-7.89E-06	-6.31E-06	-9.47E-06	-2881	-2305	-3457	576	576	1.58E-06	1.58E-06	-20
1948	7239	159	20272.76	0.016	159.1728	159.5	-7.89E-06	-6.17E-06	-9.62E-06	-2881	-2251	-3511	630	630	1.73E-06	1.73E-06	-22
1948	7239	160	20272.6	0.019	160.1734	160.5	-7.65E-06	-5.87E-06	-9.42E-06	-2791	-2143	-3439	648	648	1.78E-06	1.78E-06	-23
1948	7239	161	20272.45	0.017	161.1741	161.5	-6.26E-06	-4.64E-06	-7.89E-06	-2287	-1692	-2881	594	594	1.63E-06	1.63E-06	-26
1948	7239	162	20272.32	0.016	162.1748	162.5	-3.50E-06	-1.97E-06	-5.03E-06	-1278	-720	-1836	558	558	1.53E-06	1.53E-06	-44
1948	7239	163	20272.25	0.015	163.1755	163.5	-4.69E-06	-3.21E-06	-6.17E-06	-1710	-1170	-2251	540	540	1.48E-06	1.48E-06	-32
1948	7239	164	20272.15	0.015	164.1762	164.5	-5.43E-06	-3.95E-06	-6.91E-06	-1981	-1440	-2521	540	540	1.48E-06	1.48E-06	-27
1948	7239	165	20272.04	0.015	165.1769	165.5	-4.78E-06	-3.31E-06	-6.26E-06	-1746	-1206	-2287	540	540	1.48E-06	1.48E-06	-31
1948	7239	166	20271.95	0.015	166.1776	166.5	-5.97E-06	-4.54E-06	-7.40E-06	-2179	-1656	-2701	522	522	1.43E-06	1.43E-06	-24
1948	7239	167	20271.83	0.014	167.1783	167.5	-6.86E-06	-5.43E-06	-8.29E-06	-2503	-1981	-3025	522	522	1.43E-06	1.43E-06	-21
1948	7239	168	20271.69	0.015	168.179	168.5	-5.57E-06	-4.14E-06	-7.00E-06	-2035	-1512	-2557	522	522	1.43E-06	1.43E-06	-26
1948	7239	169	20271.57	0.014	169.1797	169.5	-4.88E-06	-3.45E-06	-6.31E-06	-1783	-1260	-2305	522	522	1.43E-06	1.43E-06	-29
1948	7239	170	20271.47	0.015	170.1804	170.5	-6.26E-06	-4.83E-06	-7.70E-06	-2287	-1765	-2809	522	522	1.43E-06	1.43E-06	-23
1948	7239	171	20271.35	0.014	171.1811	171.5	-6.66E-06	-5.28E-06	-8.04E-06	-2431	-1927	-2935	504	504	1.38E-06	1.38E-06	-21
1948	7239	172	20271.21	0.014	172.1818	172.5	-4.49E-06	-2.96E-06	-6.02E-06	-1639	-1080	-2197	558	558	1.53E-06	1.53E-06	-34
1948	7239	173	20271.12	0.017	173.1825	173.5	-3.50E-06	-1.92E-06	-5.08E-06	-1278	-702	-1855	576	576	1.58E-06	1.58E-06	-45
1948	7239	174	20271.05	0.015	174.1832	174.5	-2.96E-07	1.23E-06	-1.83E-06	-108	450	-666	558	558	1.53E-06	1.53E-06	-517
1948	7239	175	20271.04	0.016	175.1839	175.5	-3.50E-06	-1.97E-06	-5.03E-06	-1278	-720	-1837	558	558	1.53E-06	1.53E-06	-44
1948	7239	176	20270.97	0.015	176.1846	176.5	-2.52E-06	-1.09E-06	-3.95E-06	-918	-396	-1440	522	522	1.43E-06	1.43E-06	-57
1948	7239	177	20270.92	0.014	177.1853	177.5	-8.93E-06	-7.55E-06	-1.03E-05	-3259	-2755	-3763	504	504	1.38E-06	1.38E-06	-15
1948	7239	178	20270.74	0.014	178.1859	178.5	-8.19E-06	-6.81E-06	-9.57E-06	-2989	-2485	-3493	504	504	1.38E-06	1.38E-06	-17
1948	7239	179	20270.58	0.014	179.1866	179.5	-1.09E-05	-9.37E-06	-1.23E-05	-3961	-3421	-4502	540	540	1.48E-06	1.48E-06	-14
1948	7239	180	20270.36	0.016	180.1873	180.5	-1.15E-05	-1.00E-05	-1.30E-05	-4196	-3655	-4736	540	540	1.48E-06	1.48E-06	-13
1948	7239	181	20270.12	0.014	181.188	181.5	-9.87E-06	-8.49E-06	-1.12E-05	-3601	-3097	-4106	504	504	1.38E-06	1.38E-06	-14
1948	7239	182	20269.92	0.014	182.1679	182.5	-2.10E-05	-1.96E-05	-2.23E-05	-7653	-7149	-8157	504	504	1.38E-06	1.38E-06	-7
1948	7239	183	20269.5	0.014	183.1686	183.5	-8.49E-06	-7.10E-06	-9.87E-06	-3097	-2593	-3601	504	504	1.38E-06	1.38E-06	-16
1948	7239	184	20269.33	0.014	184.1693	184.5	-1.11E-05	-9.62E-06	-1.27E-05	-4070	-3511	-4628	558	558	1.53E-06	1.53E-06	-14
1948	7239	185	20269.1	0.017	185.17	185.5	-1.01E-05	-8.49E-06	-1.16E-05	-3674	-3097	-4250	576	576	1.58E-06	1.58E-06	-16
1948	7239	186	20268.9	0.015	186.1707	186.5	-1.07E-05	-9.13E-06	-1.22E-05	-3890	-3331	-4448	558	558	1.53E-06	1.53E-06	-14
1948	7239	187	20268.68	0.016	187.1714	187.5	-1.13E-05	-9.72E-06	-1.29E-05	-4124	-3548	-4700	576	576	1.58E-06	1.58E-06	-14
1948	7239	188	20268.45	0.016	188.1721	188.5	-1.08E-05	-9.28E-06	-1.23E-05	-3944	-3386	-4502	558	558	1.53E-06	1.53E-06	-14
1948	7239	189	20268.23	0.015	189.1728	189.5	-2.61E-05	-2.44E-05	-2.78E-05	-9527	-8914	-10139	612	612	1.68E-06	1.68E-06	-6
1948	7239	190	20267.7	0.019	190.1734	190.5	-1.39E-05	-1.20E-05	-1.58E-05	-5079	-4394	-5763	684	684	1.87E-06	1.87E-06	-13
1948	7239	191	20267.42	0.019	191.1741	191.5	-7.15E-06	-5.33E-06	-8.98E-06	-2611	-1945	-3278	666	666	1.83E-06	1.83E-06	-26
1948	7239	192	20267.28	0.018	192.1748	192.5	-8.44E-06	-6.71E-06	-1.02E-05	-3080	-2449	-3710	630	630	1.73E-06	1.73E-06	-20
1948	7239	193	20267.1	0.017	193.1755	193.5	-9.97E-06	-8.29E-06	-1.16E-05	-3638	-3026	-4250	612	612	1.68E-06	1.68E-06	-17
1948	7239	194	20266.9	0.017	194.1762	194.5	-1.11E-05	-1.03E-05	-1.19E-05	-4052	-3746	-4358	306	306	8.39E-07	8.39E-07	-8
1948	7239	196	20266.45	0.017	196.1776	196.5	-1.15E-05	-9.82E-06	-1.33E-05	-4214	-3584	-4845	630	630	1.73E-06	1.73E-06	-15
1948	7239	197	20266.22	0.018	197.1783	197.5	-1.18E-05	-1.01E-05	-1.36E-05	-4322	-3674	-4971	648	648	1.78E-06	1.78E-06	-15
1948	7239	198	20265.98	0.018	198.179	198.5	-6.71E-06	-5.08E-06	-8.34E-06	-2449	-1855	-3044	594	594	1.63E-06	1.63E-06	-24
1948	7239	199	20265.84	0.015	199.1797	199.5	-9.52E-06	-7.99E-06	-1.11E-05	-3476	-2918	-4034	558	558	1.53E-06	1.53E-06	-16
1948	7239	200	20265.65	0.016	200.1804	200.5	-1.02E-05	-8.59E-06	-1.18E-05	-3728	-3134	-4323	594	594	1.63E-06	1.63E-06	-16
1948	7239	201	20265.44	0.017	201.1811	201.5	-9.33E-06	-7.75E-06	-1.09E-05	-3404	-2828	-3980	576	576	1.58E-06	1.58E-06	-17
1948	7239	202	20265.25	0.015	202.1818	202.5	-1.01E-05	-8.68E-06	-1.14E-05	-3674	-3170	-4179	504	504	1.38E-06	1.38E-06	-14
1948	7239	203	20265.05	0.013	203.1825	203.5	-8.68E-06	-7.30E-06	-1.01E-05	-3170	-2666	-3674	504	504	1.38E-06	1.38E-06	-16
1948	7239	204	20264.87	0.015	204.1832	204.5	-7.33E-06	-6.59E-06	-8.07E-06	-2675	-2405	-2945	270	270	7.40E-07	7.40E-07	-10
1948	7239	206	20264.58	0.015	206.1846	206.5	-9.82E-06	-8.49E-06	-1.12E-05	-3584	-3098	-4071	486	486	1.33E-06	1.33E-06	-14
1948	7239	207	20264.38	0.012	207.1853	207.5	-8.26E-06	-8.06E-06	-8.46E-06	-3014	-2942	-3086	72	72	1.97E-07	1.97E-07	-2
1948	7239	213	20263.37	0.012	213.2092	213.5	-7.80E-06	-6.61E-06	-8.98E-06	-2846	-2414	-3278	432	432	1.18E-06	1.18E-06	-15
1948	7239	214	20263.22	0.012	214.2517	214.5	-7.72E-06	-7.01E-06	-8.44E-06	-2819	-2558	-3080	261	261	7.16E-07	7.16E-07	-9
1948	7239	216	20262.9	0.017	216.2111	216.5	-7.35E-06	-6.98E-06	-7.72E-06	-2684	-2549	-2819	135	135	3.70E-07	3.70E-07	-5
1948	7239	220	20262.31	0.013	220.2144	220.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

7276	1948	142	36617.11	0.016	142.1825	142.5	-3.28E-06	-2.40E-06	-4.15E-06	-1196	-877	-1515	319	319	8.74E-07	8.74E-07	-27
7276	1948	143	36616.99	0.016	143.1832	143.5	-3.28E-06	-3.21E-06	-3.35E-06	-1198	-1173	-1223	25	25	6.83E-08	6.83E-08	-2
7276	1948	155	36615.55	0.014	155.17	155.5	-3.33E-06	-2.54E-06	-4.12E-06	-1216	-927	-1505	289	289	7.92E-07	7.92E-07	-24
7276	1948	156	36615.43	0.015	156.1707	156.5	-3.39E-06	-2.59E-06	-4.18E-06	-1236	-947	-1525	289	289	7.92E-07	7.92E-07	-23
7276	1948	157	36615.3	0.014	157.1714	157.5	-3.14E-06	-2.35E-06	-3.93E-06	-1146	-857	-1435	289	289	7.92E-07	7.92E-07	-25
7276	1948	158	36615.19	0.015	158.1721	158.5	-2.92E-06	-2.05E-06	-3.80E-06	-1067	-748	-1386	319	319	8.74E-07	8.74E-07	-30
7276	1948	159	36615.08	0.017	159.1728	159.5	-2.89E-06	-1.99E-06	-3.80E-06	-1057	-728	-1386	329	329	9.01E-07	9.01E-07	-31
7276	1948	160	36614.98	0.016	160.1734	160.5	-2.84E-06	-1.83E-06	-3.85E-06	-1037	-668	-1406	369	369	1.01E-06	1.01E-06	-36
7276	1948	161	36614.87	0.021	161.1741	161.5	-2.05E-06	-1.04E-06	-3.06E-06	-748	-379	-1116	369	369	1.01E-06	1.01E-06	-49
7276	1948	162	36614.8	0.016	162.1748	162.5	-4.64E-07	4.10E-07	-1.34E-06	-169	150	-488	319	319	8.74E-07	8.74E-07	-188
7276	1948	163	36614.78	0.016	163.1755	163.5	-1.09E-06	-2.18E-07	-1.97E-06	-399	-80	-718	319	319	8.74E-07	8.74E-07	-80
7276	1948	164	36614.74	0.016	164.1762	164.5	-1.50E-06	-6.55E-07	-2.35E-06	-548	-239	-857	309	309	8.47E-07	8.47E-07	-56
7276	1948	165	36614.69	0.015	165.1769	165.5	-1.20E-06	-4.10E-07	-1.99E-06	-439	-150	-728	289	289	7.92E-07	7.92E-07	-66
7276	1948	166	36614.64	0.014	166.1776	166.5	-1.80E-06	-1.01E-06	-2.59E-06	-658	-369	-947	289	289	7.92E-07	7.92E-07	-44
7276	1948	167	36614.58	0.015	167.1783	167.5	-2.38E-06	-1.53E-06	-3.22E-06	-867	-558	-1176	309	309	8.47E-07	8.47E-07	-36
7276	1948	168	36614.49	0.016	168.179	168.5	-1.53E-06	-7.10E-07	-2.35E-06	-558	-259	-857	299	299	8.19E-07	8.19E-07	-54
7276	1948	169	36614.43	0.014	169.1797	169.5	-1.26E-06	-4.64E-07	-2.05E-06	-459	-169	-748	289	289	7.92E-07	7.92E-07	-63
7276	1948	170	36614.39	0.015	170.1804	170.5	-1.94E-06	-1.17E-06	-2.70E-06	-708	-429	-987	279	279	7.65E-07	7.65E-07	-39
7276	1948	171	36614.32	0.013	171.1811	171.5	-2.13E-06	-1.37E-06	-2.90E-06	-778	-498	-1057	279	279	7.65E-07	7.65E-07	-36
7276	1948	172	36614.24	0.015	172.1818	172.5	-1.07E-06	-2.18E-07	-1.91E-06	-389	-80	-698	309	309	8.47E-07	8.47E-07	-79
7276	1948	173	36614.2	0.016	173.1825	173.5	-4.37E-07	4.10E-07	-1.28E-06	-160	150	-469	309	309	8.47E-07	8.47E-07	-194
7276	1948	174	36614.18	0.015	174.1832	174.5	1.37E-06	2.21E-06	5.19E-07	498	807	189	309	309	8.47E-07	8.47E-07	62
7276	1948	175	36614.23	0.016	175.1839	175.5	8.19E-08	9.01E-07	-7.37E-07	30	329	-269	299	299	8.19E-07	8.19E-07	1000
7276	1948	176	36614.24	0.014	176.1846	176.5	1.50E-06	2.29E-06	7.10E-07	548	837	259	289	289	7.92E-07	7.92E-07	53
7276	1948	177	36614.29	0.015	177.1853	177.5	-1.09E-07	7.10E-07	-9.29E-07	-40	259	-339	299	299	8.19E-07	8.19E-07	-750
7276	1948	178	36614.29	0.015	178.1859	178.5	-3.82E-07	4.37E-07	-1.20E-06	-140	160	-439	299	299	8.19E-07	8.19E-07	-214
7276	1948	179	36614.27	0.015	179.1866	179.5	-4.64E-07	3.82E-07	-1.31E-06	-169	140	-479	309	309	8.47E-07	8.47E-07	-182
7276	1948	180	36614.26	0.016	180.1873	180.5	-2.43E-06	-1.58E-06	-3.28E-06	-887	-578	-1196	309	309	8.47E-07	8.47E-07	-35
7276	1948	181	36614.17	0.015	181.188	181.5	-9.01E-07	-8.19E-08	-1.72E-06	-329	-30	-628	299	299	8.19E-07	8.19E-07	-91
7276	1948	182	36614.13	0.015	182.1679	182.5	-3.33E-06	-2.51E-06	-4.15E-06	-1216	-917	-1515	299	299	8.19E-07	8.19E-07	-25
7276	1948	183	36614.01	0.015	183.1686	183.5	-1.61E-06	-7.92E-07	-2.43E-06	-588	-289	-887	299	299	8.19E-07	8.19E-07	-51
7276	1948	184	36613.95	0.015	184.1693	184.5	-4.18E-06	-3.25E-06	-5.11E-06	-1525	-1186	-1864	339	339	9.29E-07	9.29E-07	-22
7276	1948	185	36613.8	0.019	185.17	185.5	-4.07E-06	-3.11E-06	-5.03E-06	-1485	-1136	-1834	349	349	9.56E-07	9.56E-07	-23
7276	1948	186	36613.65	0.016	186.1707	186.5	-3.33E-06	-2.49E-06	-4.18E-06	-1216	-907	-1525	309	309	8.47E-07	8.47E-07	-25
7276	1948	187	36613.53	0.015	187.1714	187.5	-2.90E-06	-2.05E-06	-3.74E-06	-1057	-748	-1366	309	309	8.47E-07	8.47E-07	-29
7276	1948	188	36613.42	0.016	188.1721	188.5	-2.10E-06	-1.26E-06	-2.95E-06	-768	-459	-1077	309	309	8.47E-07	8.47E-07	-40
7276	1948	189	36613.35	0.015	189.1728	189.5	0.00E+00	8.74E-07	-8.74E-07	0	319	-319	319	319	8.74E-07	8.74E-07	0
7276	1948	190	36613.35	0.017	190.1734	190.5	-9.83E-07	-2.73E-08	-1.94E-06	-359	-10	-708	349	349	9.56E-07	9.56E-07	-97
7276	1948	191	36613.31	0.018	191.1741	191.5	-7.65E-07	1.91E-07	-1.72E-06	-279	70	-628	349	349	9.56E-07	9.56E-07	-125
7276	1948	192	36613.28	0.017	192.1748	192.5	-1.42E-06	-4.92E-07	-2.35E-06	-518	-179	-857	339	339	9.29E-07	9.29E-07	-65
7276	1948	193	36613.23	0.017	193.1755	193.5	-2.92E-06	-2.02E-06	-3.82E-06	-1067	-738	-1396	329	329	9.01E-07	9.01E-07	-31
7276	1948	194	36613.12	0.016	194.1762	194.5	-5.16E-06	-4.23E-06	-6.09E-06	-1884	-1545	-2223	339	339	9.29E-07	9.29E-07	-18
7276	1948	195	36612.93	0.018	195.1769	195.5	-4.81E-06	-3.82E-06	-5.79E-06	-1755	-1396	-2113	359	359	9.83E-07	9.83E-07	-20
7276	1948	196	36612.76	0.018	196.1776	196.5	-3.96E-06	-2.98E-06	-4.94E-06	-1446	-1087	-1804	359	359	9.83E-07	9.83E-07	-25
7276	1948	197	36612.61	0.018	197.1783	197.5	-3.85E-06	-2.87E-06	-4.83E-06	-1406	-1047	-1765	359	359	9.83E-07	9.83E-07	-26
7276	1948	198	36612.47	0.018	198.179	198.5	8.19E-08	9.56E-07	-7.92E-07	30	349	-289	319	319	8.74E-07	8.74E-07	1067
7276	1948	199	36612.47	0.014	199.1797	199.5	-1.80E-06	-1.01E-06	-2.59E-06	-658	-369	-947	289	289	7.92E-07	7.92E-07	-44
7276	1948	200	36612.41	0.015	200.1804	200.5	-3.33E-06	-2.43E-06	-4.23E-06	-1216	-887	-1545	329	329	9.01E-07	9.01E-07	-27
7276	1948	201	36612.29	0.018	201.1811	201.5	-2.73E-06	-1.83E-06	-3.63E-06	-997	-668	-1326	329	329	9.01E-07	9.01E-07	-33
7276	1948	202	36612.19	0.015	202.1818	202.5	-3.85E-06	-3.11E-06	-4.59E-06	-1406	-1137	-1675	269	269	7.37E-07	7.37E-07	-19
7276	1948	203	36612.05	0.012	203.1825	203.5	-3.41E-06	-2.70E-06	-4.12E-06	-1246	-987	-1505	259	259	7.10E-07	7.10E-07	-21
7276	1948	204	36611.92	0.014	204.1832	204.5	-1.23E-06	-4.64E-07	-1.99E-06	-449	-169	-728	279	279	7.65E-07	7.65E-07	-62
7276	1948	205	36611.88	0.014	205.1839	205.5	-2.35E-06	-1.58E-06	-3.11E-06	-857	-578	-1137	279	279	7.65E-07	7.65E-07	-33
7276	1948	206	36611.79	0.014	206.1846	206.5	-3.33E-06	-2.59E-06	-4.07E-06	-1216	-947	-1485	269	269	7.37E-07	7.37E-07	-22
7276	1948	207	36611.67	0.013	207.1853	207.5	-3.08E-06	-2.96E-06	-3.20E-06	-1125	-1082	-1168	43	43	1.18E-07	1.18E-07	-4
7276	1948	213	36610.99	0.013	213.2092	213.5	-3.17E-06	-2.49E-06	-3.85E-06	-1156	-907	-1406	249	249	6.83E-07	6.83E-07	-22
7276	1948	214	36610.87	0.012	214.2517	214.5	-2.53E-06	-2.14E-06	-2.91E-06	-922	-783	-1062	140	140	3.82E-07	3.82E-07	-15
7276	1948	216	36610.69	0.016	216.2111	216.5	-2.16E-06	-1.95E-06	-2.36E-06	-788	-713	-862	75	75	2.05E-07	2.05E-07	-9
7276	1948	220	36610.37	0.014	220.2144	220.5	-1.05E-06	-8.26E-07	-1.28E-06	-384	-302	-466	82	82	2.25E-07	2.25E-07	-21
7276	1948	224	36610.22	0.019	224.4255	224.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1950	1951	142	29530.36	0.014	142.1825	142.5	-2.47E-06	-1.56E-06	-3.39E-06	-902	-569	-1236	334	334	9.14E-07	9.14E-07	-37
1950	1951	143	29530.29	0.013	143.1832	143.5	-2.47E-06	-2.39E-06	-2.56E-06	-903	-873	-933	30	30	8.18E-08	8.18E-08	-3
1950	1951	155	29529.41	0.016	155.17	155.5	-2.61E-06	-1.56E-06	-3.66E-06	-952	-569	-1335	383	383	1.05E-06	1.05E-06	-40
1950	1951	156	29529.34	0.015	156.1707	156.5	-2.40E-06	-1.35E-06	-3.45E-06	-878	-494	-1261	383	383	1.05E-06	1.05E-06	-44
1950	1951	157	29529.26	0.016	157.1714	157.5	-2.51E-06	-1.42E-06	-3.59E-06	-915	-519	-1310	396	396	1.08E-06	1.08E-06	-43
1950	1951	158	29529.19	0.016	158.1721	158.5	-2.51E-06	-1.46E-06	-3.56E-06	-915	-532	-1298	383	383	1.05E-06	1.05E-06	-42
1950	1951	159	29529.12	0.015	159.1728	159.5	-2.54E-06	-1.49E-06	-3.59E-06	-927	-544	-1310	383	383	1.05E-06	1.05E-06	-41
1950	1951	160	29529.04	0.016	160.1734	160.5	-2.44E-06	-1.29E-06	-3.59E-06	-890	-470	-1310	420	420	1.15E-06	1.15E-06	-47
1950	1951	161	29528.97	0.018	161.1741	161.5	-2.30E-06	-1.15E-06	-3.45E-06	-841	-420	-1261	420	420	1.15E-06	1.15E-06	-50
1950	1951	162	29528.9	0.016	162.1748	162.5	-2.47E-06	-1.46E-06	-3.49E-06	-902	-532	-1273	371	371	1.02E-06	1.02E-06	-41
1950	1951	163	29528.83	0.014	163.1755	163.5	-2.37E-06	-1.39E-06	-3.35E-06	-865	-507	-1224	358	358	9.82E-07	9.82E-07	-41
1950	1951	164	29528.76	0.015	164.1762	164.5	-2.40E-06	-1.32E-06	-3.49E-06	-878	-482	-1273	396	396	1.08E-06	1.08E-06	-45
1950	1951	165	29528.69	0.017	165.1769	165.5	-2.13E-06	-1.02E-06	-3.25E-06	-779	-371	-1187	408	408	1.12E-06	1.12E-06	-52
1950	1951	166	29528.62	0.016	166.1776	166.5	-2.30E-06	-1.22E-06	-3.39E-06	-841	-445	-1236	396	396	1.08E-06	1.08E-06	-47
1950	1951	167	29528.56	0.016	167.1783	167.5	-2.30E-06	-1.19E-06	-3.42E-06	-841	-433	-1248	408	408	1.12E-06	1.12E-06	-49
1950	1951	168	29528.49	0.017	168.179	168.5	-2.20E-06	-1.05E-06	-3.35E-06	-803	-383	-1224	420	420	1.15E-06	1.15E-06	-52
1950	1951	169	29528.42	0.017	169.1797	169.5	-2.27E-06	-1.19E-06	-3.35E-06	-828	-433	-1224	396	396	1.08E-06	1.08E-06	-48
1950	1951	170	29528.36	0.015	170.1804	170.5	-2.24E-06	-1.25E-06	-3.22E-06	-816	-457	-1174	358	358	9.82E-07	9.82E-07	-44
1950	1951	171	29528.29	0.014	171.1811	171.5	-2.30E-06	-1.25E-06	-3.35E-06	-841	-457	-1224	383	383	1.05E-06	1.05E-06	-46
1950	1951	172	29528.22	0.017	172.1818	172.5	-2.37E-06	-1.15E-06	-3.59E-06	-865	-420	-1310	445	445	1.22E-06	1.22E-06	-51
1950	1951	173	29528.15	0.019	173.1825	173.5	-2.13E-06	-9.14E-07	-3.35E-06	-779	-334	-1224	445	445	1.22E-06	1.22E-06	-57
1950	1951	174	29528.09	0.017	174.1832	174.5	-1.05E-06	6.77E-08	-2.17E-06	-383	25	-791	408	408	1.12E-06	1.12E-06	-106
1950	1951	175	29528.06	0.016	175.1839	175.5	1.02E-06	2.07E-06	-3.39E-08	371	754	-12	383	383	1.05E-06	1.05E-06	103
1950	1951	176	29528.09	0.015	176.1846	176.5	2.51E-06	3.62E-06	1.39E-06	915	1323	507	408	408	1.12E-06	1.12E-06	45
1950	1951	177	29528.16	0.018	177.1853	177.5	3.22E-06	4.40E-06	2.03E-06	1174	1607	742	433	433	1.19E-06	1.19E-06	37
1950	1951	178	29528.26	0.017	178.1859	178.5	1.90E-06	3.05E-06	7.45E-07	692	1112	272	420	420	1.15E-06	1.15E-06	61
1950	1951	179	29528.31	0.017	179.1866	179.5	2.51E-06	3.59E-06	1.42E-06	915	1310	519	396	396	1.08E-06	1.08E-06	43
1950	1951	180	29528.39	0.015	180.1873	180.5	4.40E-07	1.49E-06	-6.10E-07	161	544	-222	383	383	1.05E-06	1.05E-06	238
1950	1951	181	29528.4	0.016	181.188	181.5	8.13E-07	1.86E-06	-2.37E-07	297	680	-87	383	383	1.05E-06	1.05E-06	129
1950	1951	182	29528.42	0.015	182.1679	182.5	2.27E-06	3.35E-06	1.19E-06	828	1224	433	396	396	1.08E-06	1.08E-06	48
1950	1951	183	29528.49	0.017	183.1686	183.5	6.10E-07	1.76E-06	-5.42E-07	222	643	-198	420	420	1.15E-06	1.15E-06	189
1950	1951	184	29528.51	0.017	184.1693	184.5	-5.08E-07	6.77E-07	-1.69E-06	-185	247	-618	433	433	1.19E-06	1.19E-06	-233
1950	1951	185	29528.49	0.018	185.17	185.5	-3.05E-07	8.81E-07	-1.49E-06	-111	321	-544	433	433	1.19E-06	1.19E-06	-389
1950	1951	186	29528.49	0.017	186.1707	186.5	-6.77E-08	1.05E-06	-1.19E-06	-25	383	-433	408	408	1.12E-06	1.12E-06	-1650
1950	1951	187	29528.48	0.016	187.1714	187.5	3.39E-08	1.12E-06	-1.05E-06	12	408	-383	396	396	1.08E-06	1.08E-06	3200
1950	1951	188	29528.48	0.016	188.1721	188.5	9.14E-07	2.00E-06	-1.69E-07	334	729	-62	396	396	1.08E-06	1.08E-06	119
1950	1951	189	29528.51	0.016	189.1728	189.5	5.18E-06	6.27E-06	4.10E-06	1891	2287	1496	396	396	1.08E-06	1.08E-06	21
1950	1951	190	29528.66	0.016	190.1734	190.5	1.49E-05	1.60E-05	1.38E-05	5439	5834	5043	396	396	1.08E-06	1.08E-06	7
1950	1951	191	29529.1	0.016	191.1741	191.5	1.42E-06	2.54E-06	3.05E-07	519	927	111	408	408	1.12E-06	1.12E-06	79
1950	1951	192	29529.15	0.017	192.1748	192.5	4.40E-07	1.56E-06	-6.77E-07	161	569	-247	408	408	1.12E-06	1.12E-06	254
1950	1951	193	29529.16	0.016	193.1755	193.5	-5.08E-07	5.76E-07	-1.59E-06	-185	210	-581	396	396	1.08E-06	1.08E-06	-213
1950	1951	194	29529.14	0.016	194.1762	194.5	-1.96E-06	-8.80E-07	-3.05E-06	-717	-321	-1112	396	396	1.08E-06	1.08E-06	-55
1950	1951	195	29529.09	0.016	195.1769	195.5	-1.63E-06	-5.08E-07	-2.74E-06	-593	-185	-1001	408	408	1.12E-06	1.12E-06	-69
1950	1951	196	29529.04	0.017	196.1776	196.5	-8.13E-07	2.71E-07	-1.90E-06	-297	99	-692	396	396	1.08E-06	1.08E-06	-133
1950	1951	197	29529.01	0.015	197.1783	197.5	-1.49E-06	-4.74E-07	-2.51E-06	-544	-173	-915	371	371	1.02E-06	1.02E-06	-68
1950	1951	198	29528.97	0.015	198.179	198.5	3.42E-06	4.40E-06	2.44E-06	1248	1607	890	358	358	9.82E-07	9.82E-07	29
1950	1951	199	29529.07	0.014	199.1797	199.5	-6.77E-07	3.39E-07	-1.69E-06	-247	124	-618	371	371	1.02E-06	1.02E-06	-150
1950	1951	200	29529.05	0.016	200.1804	200.5	-1.20E-06	-6.60E-07	-1.74E-06	-439	-241	-637	198	198	5.42E-07	5.42E-07	-45
1950	1951	202	29528.98	0.016	202.1818	202.5	-1.76E-06	-7.11E-07	-2.81E-06	-643	-260	-1026	383	383	1.05E-06	1.05E-06	-60
1950	1951	203	29528.93	0.015	203.1825	203.5	-1.56E-06	-5.42E-07	-2.57E-06	-569	-198	-939	371	371	1.02E-06	1.02E-06	-65
1950	1951	204	29528.88	0.015	204.1832	204.5	-1.02E-07	8.13E-07	-1.02E-06	-37	297	-371	334	334	9.14E-07	9.14E-07	-900
1950	1951	205	29528.88	0.012	205.1839	205.5	-6.43E-07	1.69E-07	-1.46E-06	-235	62	-532	297	297	8.13E-07	8.13E-07	-126
1950	1951	206	29528.86	0.012	206.1846	206.5	-9.82E-07	-1.35E-07	-1.83E-06	-358	-49	-667	309	309	8.47E-07	8.47E-07	-86
1950	1951	207	29528.83	0.013	207.1853	207.5	-2.46E-06	-1.96E-06	-2.95E-06	-896	-717	-1075	179	179	4.91E-07	4.91E-07	-20
1950	1951	209	29528.69	0.016	209.1866	209.5	-2.27E-06	-1.22E-06	-3.32E-06	-828	-445	-1211	383	383	1.05E-06	1.05E-06	-46
1950	1951	210	29528.62	0.015	210.1873	210.5	-3.32E-06	-2.44E-06	-4.20E-06	-1211	-890	-1533	321	321	8.81E-07	8.81E-07	-27
1950	1951	211	29528.52	0.011	211.188	211.5	-2.10E-06	-1.32E-06	-2.88E-06	-766	-482	-1051	284	284	7.79E-07	7.79E-07	-37
1950	1951	212	29528.46	0.012	212.1887	212.5	-3.37E-06	-2.96E-06	-3.78E-06	-1230	-1082	-1378	148	148	4.06E-07	4.06E-07	-12
1950	1951	214	29528.26	0.012	214.1686	214.5	-2.91E-06	-2.52E-06	-3.30E-06	-1063	-921	-1205	142	142	3.89E-07	3.89E-07	-13
1950	1951	216	29528.09	0.011	216.17	216.5	-2.64E-06	-1.83E-06	-3.45E-06	-964	-668	-1261	297	297	8.13E-07	8.13E-07	-31
1950	1951	217	29528.01	0.013	217.1707	217.5	-3.08E-06	-2.10E-06	-4.06E-06	-1125	-766	-1483	358	358	9.82E-07	9.82E-07	-32
1950	1951	218	29527.92	0.016	218.1714	218.5	-2.71E-06	-1.73E-06	-3.69E-06	-989	-630	-1347	358	358	9.82E-07	9.82E-07	-36
1950	1951	219	29527.84	0.013	219.1721	219.5	-3.73E-07	5.08E-07	-1.25E-06	-136	185	-457	321	321	8.81E-07	8.81E-07	-236
1950	1951	220	29527.83	0.013	220.1728	220.5	4.23E-07	9.65E-07	-1.19E-07	155	352	-43	198	198	5.42E-07	5.42E-07	128
1950	1951	222	29527.85	0.019	222.1741	222.5	-1.35E-07	4.40E-07	-7.11E-07	-49	161	-260	210	210	5.76E-07	5.76E-07	-425
1950	1951	224	29527.85	0.015	224.4255	224.5	9.82E-07	1.90E-06	6.77E-08	358	692	25	334	334	9.14E-07	9.14E-07	93
1950	1951	225	29527.87	0.012	225.1762	225.5	6.77E-08	9.14E-07	-7.79E-07	25	334	-284	309	309	8.47E-07	8.47E-07	1250
1950	1951	226	29527.88	0.013	226.1769	226.5	-2.37E-06	-1.46E-06	-3.29E-06	-865	-532	-1199	334	334	9.14E-07	9.14E-07	-39
1950	1951	227	29527.81	0.014	227.1776	227.5	-2.40E-06	-1.52E-06	-3.29E-06	-878	-556	-1199	321	321	8.81E-07	8.81E-07	-37
1950	1951	228	29527.74	0.012	228.1783	228.5	-2.24E-06	-1.39E-06	-3.08E-06	-816	-507	-1125	309	309	8.47E-07	8.47E-07	-38
1950	1951	229	29527.67	0.013	229.179	229.5	-2.07E-06	-1.22E-06	-2.91E-06	-754	-445	-1063	309	309	8.47E-07	8.47E-07	-41
1950	1951	230	29527.61	0.012	230.1797	230.5	-3.73E-06	-2.95E-06	-4.50E-06	-1360	-1075	-1644	284	284	7.79E-07	7.79E-07	-21
1950	1951	231	29527.5	0.011	231.1804	231.5	-3.05E-07	8.47E-07	-1.46E-06	-111	309	-532	420	420	1.15E-06	1.15E-06	-378
1950	1951	232	29527.49	0.023	232.1811	232.5	-2.13E-06	-9.14E-07	-3.35E-06	-779	-334	-1224	445	445	1.22E-06	1.22E-06	-57
1950	1951	233	29527.43	0.013	233.1818	233.5	-2.78E-06	-1.93E-06	-3.62E-06	-1014	-705	-1323	309	309	8.47E-07	8.47E-07	-30
1950	1951	234	29527.34	0.012	234.1825	234.5	-1.56E-06	-6.10E-07	-2.51E-06	-569	-223	-915	346	346	9.48E-07	9.48E-07	-61
1950	1951	235	29527.3	0.016	235.1832	235.5	-2.88E-06	-1.96E-06	-3.79E-06	-1051	-717	-1384	334	334	9.14E-07	9.14E-07	-32
1950	1951	236	29527.21	0.011	236.1839	236.5	-1.02E-06	-1.69E-07	-1.86E-06	-371	-62	-680	309	309	8.47E-07	8.47E-07	-83
1950	1951	237	29527.18	0.014	237.1846	237.5	-2.07E-06	-1.05E-06	-3.08E-06	-754	-383	-1125	371	371	1.02E-06	1.02E-06	-49
1950	1951	238	29527.12	0.016	238.1853	238.5	1.02E-07	1.32E-06	-1.12E-06	37	482	-408	445	445	1.22E-06	1.22E-06	1200
1950	1951	239	29527.13	0.02	239.1859	239.5	7.65E-06	8.74E-06	6.57E-06	2794	3189	2398	396	396	1.08E-06	1.08E-06	14
1950	1951	240	29527.35	0.012	240.1866	240.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1950	1956	142	12613.977	0.013	142.1825	142.5	-3.25E-06	-1.27E-06	-5.23E-06	-1186	-463	-1910	723	723	1.98E-06	1.98E-06	-61
1950	1956	143	12613.936	0.012	143.1832	143.5	-3.29E-06	-3.12E-06	-3.46E-06	-1201	-1138	-1264	63	63	1.72E-07	1.72E-07	-5
1950	1956	155	12613.438	0.014	155.17	155.5	-3.41E-06	-1.19E-06	-5.63E-06	-1244	-434	-2055	810	810	2.22E-06	2.22E-06	-65
1950	1956	156	12613.395	0.014	156.1707	156.5	-3.17E-06	-9.51E-07	-5.39E-06	-1158	-347	-1968	810	810	2.22E-06	2.22E-06	-70
1950	1956	157	12613.355	0.014	157.1714	157.5	-3.33E-06	-1.11E-06	-5.55E-06	-1215	-405	-2026	810	810	2.22E-06	2.22E-06	-67
1950	1956	158	12613.313	0.014	158.1721	158.5	-3.41E-06	-1.19E-06	-5.63E-06	-1244	-434	-2055	810	810	2.22E-06	2.22E-06	-65
1950	1956	159	12613.27	0.014	159.1728	159.5	-3.49E-06	-1.35E-06	-5.63E-06	-1273	-492	-2055	781	781	2.14E-06	2.14E-06	-61
1950	1956	160	12613.226	0.013	160.1734	160.5	-3.17E-06	-8.72E-07	-5.47E-06	-1158	-318	-1997	839	839	2.30E-06	2.30E-06	-73
1950	1956	161	12613.186	0.016	161.1741	161.5	-2.93E-06	-4.76E-07	-5.39E-06	-1071	-174	-1968	897	897	2.46E-06	2.46E-06	-84
1950	1956	162	12613.149	0.015	162.1748	162.5	-3.49E-06	-1.11E-06	-5.87E-06	-1273	-405	-2141	868	868	2.38E-06	2.38E-06	-68
1950	1956	163	12613.105	0.015	163.1755	163.5	-3.25E-06	-9.51E-07	-5.55E-06	-1186	-347	-2026	839	839	2.30E-06	2.30E-06	-71
1950	1956	164	12613.064	0.014	164.1762	164.5	-3.17E-06	-8.72E-07	-5.47E-06	-1158	-318	-1997	839	839	2.30E-06	2.30E-06	-73
1950	1956	165	12613.024	0.015	165.1769	165.5	-3.17E-06	-8.72E-07	-5.47E-06	-1158	-318	-1997	839	839	2.30E-06	2.30E-06	-72
1950	1956	166	12612.984	0.014	166.1776	166.5	-3.33E-06	-1.19E-06	-5.47E-06	-1215	-434	-1997	781	781	2.14E-06	2.14E-06	-64
1950	1956	167	12612.942	0.013	167.1783	167.5	-3.01E-06	-7.93E-07	-5.23E-06	-1100	-289	-1910	810	810	2.22E-06	2.22E-06	-74
1950	1956	168	12612.904	0.015	168.179	168.5	-3.65E-06	-1.43E-06	-5.87E-06	-1331	-521	-2141	810	810	2.22E-06	2.22E-06	-61
1950	1956	169	12612.858	0.013	169.1797	169.5	-3.01E-06	-8.72E-07	-5.15E-06	-1100	-318	-1881	781	781	2.14E-06	2.14E-06	-71
1950	1956	170	12612.82	0.014	170.1804	170.5	-3.09E-06	-8.72E-07	-5.31E-06	-1129	-318	-1939	810	810	2.22E-06	2.22E-06	-72
1950	1956	171	12612.781	0.014	171.1811	171.5	-3.25E-06	-1.11E-06	-5.39E-06	-1186	-405	-1968	781	781	2.14E-06	2.14E-06	-66
1950	1956	172	12612.74	0.013	172.1818	172.5	-3.33E-06	-9.51E-07	-5.71E-06	-1215	-347	-2084	868	868	2.38E-06	2.38E-06	-71
1950	1956	173	12612.698	0.017	173.1825	173.5	-2.93E-06	-3.96E-07	-5.47E-06	-1071	-145	-1997	926	926	2.54E-06	2.54E-06	-86
1950	1956	174	12612.661	0.015	174.1832	174.5	-3.33E-06	-1.03E-06	-5.63E-06	-1215	-376	-2055	839	839	2.30E-06	2.30E-06	-69
1950	1956	175	12612.619	0.014	175.1839	175.5	-3.25E-06	-1.11E-06	-5.39E-06	-1187	-405	-1968	781	781	2.14E-06	2.14E-06	-66
1950	1956	176	12612.578	0.013	176.1846	176.5	-3.33E-06	-1.11E-06	-5.55E-06	-1215	-405	-2026	810	810	2.22E-06	2.22E-06	-67
1950	1956	177	12612.536	0.015	177.1853	177.5	-1.27E-06	1.03E-06	-3.57E-06	-463	376	-1302	839	839	2.30E-06	2.30E-06	-181
1950	1956	178	12612.52	0.014	178.1859	178.5	-1.82E-06	3.96E-07	-4.04E-06	-666	145	-1476	810	810	2.22E-06	2.22E-06	-122
1950	1956	179	12612.497	0.014	179.1866	179.5	-3.96E-07	1.74E-06	-2.54E-06	-145	637	-926	781	781	2.14E-06	2.14E-06	-540
1950	1956	180	12612.492	0.013	180.1873	180.5	2.85E-06	5.00E-06	7.14E-07	1042	1823	260	781	781	2.14E-06	2.14E-06	75
1950	1956	181	12612.528	0.014	181.188	181.5	2.78E-06	4.84E-06	7.14E-07	1013	1765	260	752	752	2.06E-06	2.06E-06	74
1950	1956	182	12612.563	0.012	182.1679	182.5	4.12E-06	6.26E-06	1.98E-06	1505	2286	723	781	781	2.14E-06	2.14E-06	52
1950	1956	183	12612.615	0.015	183.1686	183.5	5.55E-07	2.85E-06	-1.74E-06	203	1042	-637	839	839	2.30E-06	2.30E-06	414
1950	1956	184	12612.622	0.014	184.1693	184.5	-1.59E-07	2.14E-06	-2.46E-06	-58	781	-897	839	839	2.30E-06	2.30E-06	-1450
1950	1956	185	12612.62	0.015	185.17	185.5	3.96E-07	2.70E-06	-1.90E-06	145	984	-695	839	839	2.30E-06	2.30E-06	580
1950	1956	186	12612.625	0.014	186.1707	186.5	2.30E-06	4.52E-06	7.93E-08	839	1650	29	810	810	2.22E-06	2.22E-06	97
1950	1956	187	12612.654	0.014	187.1714	187.5	7.93E-07	2.93E-06	-1.35E-06	289	1071	-492	781	781	2.14E-06	2.14E-06	270
1950	1956	188	12612.664	0.013	188.1721	188.5	-7.93E-08	1.98E-06	-2.14E-06	-29	723	-781	752	752	2.06E-06	2.06E-06	-2600
1950	1956	189	12612.663	0.013	189.1728	189.5	6.26E-06	8.32E-06	4.20E-06	2286	3039	1534	752	752	2.06E-06	2.06E-06	33
1950	1956	190	12612.742	0.013	190.1734	190.5	2.93E-06	5.15E-06	7.14E-07	1071	1881	260	810	810	2.22E-06	2.22E-06	76
1950	1956	191	12612.779	0.015	191.1741	191.5	-1.59E-07	2.14E-06	-2.46E-06	-58	781	-897	839	839	2.30E-06	2.30E-06	-1450
1950	1956	192	12612.777	0.014	192.1748	192.5	-7.93E-08	2.14E-06	-2.30E-06	-29	781	-839	810	810	2.22E-06	2.22E-06	-2800
1950	1956	193	12612.776	0.014	193.1755	193.5	4.76E-07	2.70E-06	-1.74E-06	174	984	-637	810	810	2.22E-06	2.22E-06	467
1950	1956	194	12612.782	0.014	194.1762	194.5	-2.14E-06	1.59E-07	-4.44E-06	-781	58	-1621	839	839	2.30E-06	2.30E-06	-107
1950	1956	195	12612.755	0.015	195.1769	195.5	0.00E+00	2.30E-06	-2.30E-06	0	839	-839	839	839	2.30E-06	2.30E-06	0
1950	1956	196	12612.755	0.014	196.1776	196.5	3.17E-07	2.46E-06	-1.82E-06	116	897	-666	781	781	2.14E-06	2.14E-06	675
1950	1956	197	12612.759	0.013	197.1783	197.5	-3.17E-07	1.82E-06	-2.46E-06	-116	666	-897	781	781	2.14E-06	2.14E-06	-675
1950	1956	198	12612.755	0.014	198.179	198.5	4.76E-07	2.62E-06	-1.66E-06	174	955	-608	781	781	2.14E-06	2.14E-06	450
1950	1956	199	12612.761	0.013	199.1797	199.5	1.59E-07	2.30E-06	-1.98E-06	58	839	-723	781	781	2.14E-06	2.14E-06	1350
1950	1956	200	12612.763	0.014	200.1804	200.5	-1.51E-06	8.72E-07	-3.88E-06	-550	318	-1418	868	868	2.38E-06	2.38E-06	-158
1950	1956	201	12612.744	0.016	201.1811	201.5	-2.30E-06	7.93E-08	-4.68E-06	-839	29	-1707	868	868	2.38E-06	2.38E-06	-103
1950	1956	202	12612.715	0.014	202.1818	202.5	-2.85E-06	-7.14E-07	-4.99E-06	-1042	-260	-1823	781	781	2.14E-06	2.14E-06	-75
1950	1956	203	12612.679	0.013	203.1825	203.5	-3.81E-06	-1.74E-06	-5.87E-06	-1389	-637	-2141	752	752	2.06E-06	2.06E-06	-54
1950	1956	204	12612.631	0.013	204.1832	204.5	-2.46E-06	-5.55E-07	-4.36E-06	-897	-203	-1592	695	695	1.90E-06	1.90E-06	-77
1950	1956	205	12612.6	0.011	205.1839	205.5	-2.30E-06	-5.55E-07	-4.04E-06	-839	-203	-1476	637	637	1.74E-06	1.74E-06	-76
1950	1956	206	12612.571	0.011	206.1846	206.5	-1.90E-06	-1.59E-07	-3.65E-06	-695	-58	-1331	637	637	1.74E-06	1.74E-06	-92
1950	1956	207	12612.547	0.011	207.1853	207.5	-3.09E-06	-1.35E-06	-4.84E-06	-1129	-492	-1765	637	637	1.74E-06	1.74E-06	-56
1950	1956	208	12612.508	0.011	208.1859	208.5	-2.46E-06	-6.34E-07	-4.28E-06	-897	-232	-1563	666	666	1.82E-06	1.82E-06	-74
1950	1956	209	12612.477	0.012	209.1866	209.5	-3.41E-06	-1.35E-06	-5.47E-06	-1244	-492	-1997	752	752	2.06E-06	2.06E-06	-60
1950	1956	210	12612.434	0.014	210.1873	210.5	-3.73E-06	-1.82E-06	-5.63E-06	-1360	-666	-2055	695	695	1.90E-06	1.90E-06	-51
1950	1956	211	12612.387	0.01	211.188	211.5	-3.41E-06	-1.82E-06	-5.00E-06	-1244	-666	-1823	579	579	1.59E-06	1.59E-06	-47
1950	1956	212	12612.344	0.01	212.1887	212.5	-4.36E-06	-2.62E-06	-6.11E-06	-1592	-955	-2228	637	637	1.74E-06	1.74E-06	-40
1950	1956	213	12612.289	0.012	213.1679	213.5	-4.36E-06	-2.62E-06	-6.11E-06	-1592	-955	-2228	637	637	1.74E-06	1.74E-06	-40
1950	1956	214	12612.234	0.01	214.1686	214.5	-6.90E-06	-5.31E-06	-8.48E-06	-2518	-1939	-3097	579	579	1.59E-06	1.59E-06	-23
1950	1956	216	12612.147	0.01	216.17	216.5	-2.06E-06	-3.17E-07	-3.81E-06	-752	-116	-1389	637	637	1.74E-06	1.74E-06	-85
1950	1956	217	12612.121	0.012	217.1707	217.5	-5.39E-06	-3.25E-06	-7.53E-06	-1968	-1187	-2749	781	781	2.14E-06	2.14E-06	-40
1950	1956	218	12612.053	0.015	218.1714	218.5	-6.34E-06	-4.20E-06	-8.48E-06	-2315	-1534	-3097	781	781	2.14E-06	2.14E-06	-34
1950	1956	219	12611.973	0.012	219.1721	219.5	-1.67E-06	2.38E-07	-3.57E-06	-608	87	-1302	695	695	1.90E-06	1.90E-06	-114
1950	1956	220	12611.952	0.012	220.1728	220.5	-3.96E-07	7.53E-07	-1.55E-06	-145	275	-564	420	420	1.15E-06	1.15E-06	-290
1950	1956	222	12611.942	0.017	222.1741	222.5	-4.60E-06	-3.37E-06	-5.83E-06	-1679	-1230	-2127	449	449	1.23E-06	1.23E-06	-27
1950	1956	224	12611.826	0.014	224.4255	224.5	-1.43E-06	5.55E-07	-3.41E-06	-521	203	-1244	724	724	1.98E-06	1.98E-06	-139
1950	1956	225	12611.808	0.011	225.1762	225.5	-6.34E-07	1.27E-06	-2.54E-06	-232	463	-926	695	695	1.90E-06	1.90E-06	-300
1950	1956	226	12611.8	0.013	226.1769	226.5	-2.30E-06	-2.38E-07	-4.36E-06	-839	-87	-1592	752	752	2.06E-06	2.06E-06	-90
1950	1956	227	12611.771	0.013	227.1776	227.5	-3.49E-06	-1.51E-06	-5.47E-06	-1273	-550	-1997	724	724	1.98E-06	1.98E-06	-57
1950	1956	228	12611.727	0.012	228.1783	228.5	-1.90E-06	0.00E+00	-3.81E-06	-695	0	-1389	695	695	1.90E-06	1.90E-06	-100
1950	1956	229	12611.703	0.012	229.179	229.5	-5.31E-06	-3.49E-06	-7.14E-06	-1939	-1273	-2605	666	666	1.82E-06	1.82E-06	-34
1950	1956	230	12611.636	0.011	230.1797	230.5	-4.44E-06	-2.70E-06	-6.18E-06	-1621	-984	-2257	637	637	1.74E-06	1.74E-06	-39
1950	1956	231	12611.58	0.011	231.1804	231.5	-4.76E-07	1.82E-06	-2.78E-06	-174	666	-1013	839	839	2.30E-06	2.30E-06	-483
1950	1956	232	12611.574	0.018	232.1811	232.5	-7.14E-06	-4.68E-06	-9.59E-06	-2605	-1708	-3502	897	897	2.46E-06	2.46E-06	-34
1950	1956	233	12611.484	0.013	233.1818	233.5	-5.39E-06	-3.49E-06	-7.29E-06	-1968	-1273	-2663	695	695	1.90E-06	1.90E-06	-35
1950	1956	234	12611.416	0.011	234.1825	234.5	-3.57E-06	-1.74E-06	-5.39E-06	-1302	-637	-1968	666	666	1.82E-06	1.82E-06	-51
1950	1956	235	12611.371	0.012	235.1832	235.5	-4.92E-06	-3.09E-06	-6.74E-06	-1794	-1129	-2460	666	666	1.82E-06	1.82E-06	-37
1950	1956	236	12611.309	0.011	236.1839	236.5	-3.89E-06	-2.06E-06	-5.71E-06	-1418	-753	-2084	666	666	1.82E-06	1.82E-06	-47
1950	1956	237	12611.26	0.012	237.1846	237.5	-3.73E-06	-1.67E-06	-5.79E-06	-1360	-608	-2113	753	753	2.06E-06	2.06E-06	-55
1950	1956	238	12611.213	0.014	238.1853	238.5	-6.03E-06	-3.73E-06	-8.33E-06	-2200	-1360	-3039	839	839	2.30E-06	2.30E-06	-38
1950	1956	239	12611.137	0.015	239.1859	239.5	-3.96E-06	-1.82E-06	-6.11E-06	-1447	-666	-2229	781	781	2.14E-06	2.14E-06	-54
1950	1956	240	12611.087	0.012	240.1866	240.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1950	1957	142	36628.357	0.015	142.1825	142.5	-1.80E-06	-1.01E-06	-2.59E-06	-658	-369	-947	289	289	7.92E-07	7.92E-07	-44
1950	1957	143	36628.291	0.014	143.1832	143.5	-1.86E-06	-1.79E-06	-1.92E-06	-678	-654	-701	23	23	6.37E-08	6.37E-08	-3
1950	1957	155	36627.475	0.014	155.17	155.5	-1.88E-06	-1.09E-06	-2.68E-06	-688	-399	-977	289	289	7.92E-07	7.92E-07	-42
1950	1957	156	36627.406	0.015	156.1707	156.5	-1.83E-06	-9.83E-07	-2.68E-06	-668	-359	-977	309	309	8.46E-07	8.46E-07	-46
1950	1957	157	36627.339	0.016	157.1714	157.5	-1.80E-06	-9.56E-07	-2.65E-06	-658	-349	-967	309	309	8.46E-07	8.46E-07	-47
1950	1957	158	36627.273	0.015	158.1721	158.5	-1.86E-06	-1.01E-06	-2.70E-06	-678	-369	-987	309	309	8.46E-07	8.46E-07	-46
1950	1957	159	36627.205	0.016	159.1728	159.5	-1.83E-06	-9.83E-07	-2.68E-06	-668	-359	-977	309	309	8.46E-07	8.46E-07	-46
1950	1957	160	36627.138	0.015	160.1734	160.5	-1.72E-06	-7.92E-07	-2.65E-06	-628	-289	-967	339	339	9.28E-07	9.28E-07	-54
1950	1957	161	36627.075	0.019	161.1741	161.5	-1.77E-06	-7.92E-07	-2.76E-06	-648	-289	-1006	359	359	9.83E-07	9.83E-07	-55
1950	1957	162	36627.01	0.017	162.1748	162.5	-1.64E-06	-7.37E-07	-2.54E-06	-598	-269	-927	329	329	9.01E-07	9.01E-07	-55
1950	1957	163	36626.95	0.016	163.1755	163.5	-1.50E-06	-6.83E-07	-2.32E-06	-548	-249	-847	299	299	8.19E-07	8.19E-07	-55
1950	1957	164	36626.895	0.014	164.1762	164.5	-1.45E-06	-6.28E-07	-2.27E-06	-528	-229	-827	299	299	8.19E-07	8.19E-07	-57
1950	1957	165	36626.842	0.016	165.1769	165.5	-1.45E-06	-6.28E-07	-2.27E-06	-528	-229	-827	299	299	8.19E-07	8.19E-07	-57
1950	1957	166	36626.789	0.014	166.1776	166.5	-1.37E-06	-6.01E-07	-2.13E-06	-498	-219	-777	279	279	7.64E-07	7.64E-07	-56
1950	1957	167	36626.739	0.014	167.1783	167.5	-1.47E-06	-7.10E-07	-2.24E-06	-538	-259	-817	279	279	7.64E-07	7.64E-07	-52
1950	1957	168	36626.685	0.014	168.179	168.5	-1.47E-06	-6.55E-07	-2.29E-06	-538	-239	-837	299	299	8.19E-07	8.19E-07	-56
1950	1957	169	36626.631	0.016	169.1797	169.5	-1.15E-06	-3.00E-07	-1.99E-06	-419	-110	-727	309	309	8.46E-07	8.46E-07	-74
1950	1957	170	36626.589	0.015	170.1804	170.5	-1.45E-06	-6.28E-07	-2.27E-06	-528	-229	-827	299	299	8.19E-07	8.19E-07	-57
1950	1957	171	36626.536	0.015	171.1811	171.5	-1.56E-06	-7.10E-07	-2.40E-06	-568	-259	-877	309	309	8.46E-07	8.46E-07	-54
1950	1957	172	36626.479	0.016	172.1818	172.5	-1.23E-06	-3.28E-07	-2.13E-06	-448	-120	-777	329	329	9.01E-07	9.01E-07	-73
1950	1957	173	36626.434	0.017	173.1825	173.5	-6.55E-07	2.73E-07	-1.58E-06	-239	100	-578	339	339	9.28E-07	9.28E-07	-142
1950	1957	174	36626.41	0.017	174.1832	174.5	2.73E-07	1.17E-06	-6.28E-07	100	429	-229	329	329	9.01E-07	9.01E-07	330
1950	1957	175	36626.42	0.016	175.1839	175.5	5.73E-07	1.39E-06	-2.46E-07	209	508	-90	299	299	8.19E-07	8.19E-07	143
1950	1957	176	36626.441	0.014	176.1846	176.5	3.77E-06	4.56E-06	2.98E-06	1375	1664	1086	289	289	7.92E-07	7.92E-07	21
1950	1957	177	36626.579	0.015	177.1853	177.5	5.57E-06	6.39E-06	4.75E-06	2033	2332	1734	299	299	8.19E-07	8.19E-07	15
1950	1957	178	36626.783	0.015	178.1859	178.5	2.62E-06	3.44E-06	1.80E-06	957	1256	658	299	299	8.19E-07	8.19E-07	31
1950	1957	179	36626.879	0.015	179.1866	179.5	2.51E-06	3.28E-06	1.75E-06	917	1196	638	279	279	7.64E-07	7.64E-07	30
1950	1957	180	36626.971	0.013	180.1873	180.5	6.28E-07	1.37E-06	-1.09E-07	229	498	-40	269	269	7.37E-07	7.37E-07	117
1950	1957	181	36626.994	0.014	181.188	181.5	2.62E-06	3.39E-06	1.86E-06	957	1236	678	279	279	7.64E-07	7.64E-07	29
1950	1957	182	36627.09	0.014	182.1679	182.5	1.50E-06	2.32E-06	6.83E-07	548	847	249	299	299	8.19E-07	8.19E-07	55
1950	1957	183	36627.145	0.016	183.1686	183.5	9.83E-07	1.86E-06	1.09E-07	359	678	40	319	319	8.74E-07	8.74E-07	89
1950	1957	184	36627.181	0.016	184.1693	184.5	-1.17E-06	-3.00E-07	-2.05E-06	-429	-110	-747	319	319	8.74E-07	8.74E-07	-74
1950	1957	185	36627.138	0.016	185.17	185.5	-8.19E-07	2.73E-08	-1.67E-06	-299	10	-608	309	309	8.46E-07	8.46E-07	-103
1950	1957	186	36627.108	0.015	186.1707	186.5	-4.37E-07	3.82E-07	-1.26E-06	-159	140	-458	299	299	8.19E-07	8.19E-07	-187
1950	1957	187	36627.092	0.015	187.1714	187.5	-1.37E-07	6.28E-07	-9.01E-07	-50	229	-329	279	279	7.64E-07	7.64E-07	-560
1950	1957	188	36627.087	0.013	188.1721	188.5	7.37E-07	1.50E-06	-2.73E-08	269	548	-10	279	279	7.64E-07	7.64E-07	104
1950	1957	189	36627.114	0.015	189.1728	189.5	3.30E-06	4.15E-06	2.46E-06	1206	1515	897	309	309	8.46E-07	8.46E-07	26
1950	1957	190	36627.235	0.016	190.1734	190.5	8.30E-06	9.20E-06	7.40E-06	3029	3358	2701	329	329	9.01E-07	9.01E-07	11
1950	1957	191	36627.539	0.017	191.1741	191.5	5.98E-06	6.91E-06	5.05E-06	2182	2521	1844	339	339	9.28E-07	9.28E-07	16
1950	1957	192	36627.758	0.017	192.1748	192.5	1.83E-06	2.70E-06	9.56E-07	668	987	349	319	319	8.74E-07	8.74E-07	48
1950	1957	193	36627.825	0.015	193.1755	193.5	1.37E-07	9.28E-07	-6.55E-07	50	339	-239	289	289	7.92E-07	7.92E-07	580
1950	1957	194	36627.83	0.014	194.1762	194.5	-1.42E-06	-5.73E-07	-2.27E-06	-518	-209	-827	309	309	8.46E-07	8.46E-07	-60
1950	1957	195	36627.778	0.017	195.1769	195.5	-1.50E-06	-6.28E-07	-2.38E-06	-548	-229	-867	319	319	8.74E-07	8.74E-07	-58
1950	1957	196	36627.723	0.015	196.1776	196.5	-1.09E-06	-2.18E-07	-1.97E-06	-399	-80	-717	319	319	8.74E-07	8.74E-07	-80
1950	1957	197	36627.683	0.017	197.1783	197.5	-1.31E-06	-4.10E-07	-2.21E-06	-478	-149	-807	329	329	9.01E-07	9.01E-07	-69
1950	1957	198	36627.635	0.016	198.179	198.5	9.56E-07	1.83E-06	8.19E-08	349	668	30	319	319	8.74E-07	8.74E-07	91
1950	1957	199	36627.67	0.016	199.1797	199.5	-5.19E-07	3.82E-07	-1.42E-06	-189	140	-518	329	329	9.01E-07	9.01E-07	-174
1950	1957	200	36627.651	0.017	200.1804	200.5	-6.42E-07	-2.18E-07	-1.06E-06	-234	-80	-389	154	154	4.23E-07	4.23E-07	-66
1950	1957	202	36627.604	0.014	202.1818	202.5	-1.06E-06	-3.28E-07	-1.80E-06	-389	-120	-658	269	269	7.37E-07	7.37E-07	-69
1950	1957	203	36627.565	0.013	203.1825	203.5	-5.19E-07	2.73E-07	-1.31E-06	-189	100	-478	289	289	7.92E-07	7.92E-07	-153
1950	1957	204	36627.546	0.016	204.1832	204.5	-2.73E-08	7.37E-07	-7.92E-07	-10	269	-289	279	279	7.64E-07	7.64E-07	-2800
1950	1957	205	36627.545	0.012	205.1839	205.5	8.19E-08	7.37E-07	-5.73E-07	30	269	-209	239	239	6.55E-07	6.55E-07	800
1950	1957	206	36627.548	0.012	206.1846	206.5	-7.64E-07	-1.37E-07	-1.39E-06	-279	-50	-508	229	229	6.28E-07	6.28E-07	-82
1950	1957	207	36627.52	0.011	207.1853	207.5	-1.61E-06	-1.01E-06	-2.21E-06	-588	-369	-807	219	219	6.01E-07	6.01E-07	-37
1950	1957	208	36627.461	0.011	208.1859	208.5	-9.83E-07	-2.18E-07	-1.75E-06	-359	-80	-638	279	279	7.64E-07	7.64E-07	-78
1950	1957	209	36627.425	0.017	209.1866	209.5	-1.58E-06	-6.83E-07	-2.48E-06	-578	-249	-907	329	329	9.01E-07	9.01E-07	-57
1950	1957	210	36627.367	0.016	210.1873	210.5	-2.27E-06	-1.56E-06	-2.98E-06	-827	-568	-1086	259	259	7.10E-07	7.10E-07	-31
1950	1957	211	36627.284	0.01	211.188	211.5	-7.37E-07	-1.64E-07	-1.31E-06	-269	-60	-478	209	209	5.73E-07	5.73E-07	-78
1950	1957	212	36627.257	0.011	212.1887	212.5	-2.18E-06	-1.90E-06	-2.47E-06	-797	-693	-902	105	105	2.87E-07	2.87E-07	-13
1950	1957	214	36627.097	0.01	214.1686	214.5	-1.05E-06	-7.10E-07	-1.39E-06	-384	-259	-508	125	125	3.41E-07	3.41E-07	-32
1950	1957	216	36627.02	0.015	216.17	216.5	-1.09E-07	8.19E-07	-1.04E-06	-40	299	-379	339	339	9.28E-07	9.28E-07	-850
1950	1957	217	36627.016	0.019	217.1707	217.5	-2.46E-06	-1.42E-06	-3.49E-06	-897	-518	-1276	379	379	1.04E-06	1.04E-06	-42
1950	1957	218	36626.926	0.019	218.1714	218.5	-2.07E-06	-1.23E-06	-2.92E-06	-757	-448	-1066	309	309	8.46E-07	8.46E-07	-41
1950	1957	219	36626.85	0.012	219.1721	219.5	5.46E-08	9.01E-07	-7.92E-07	20	329	-289	309	309	8.46E-07	8.46E-07	1550
1950	1957	220	36626.852	0.019	220.1728	220.5	2.05E-06	2.30E-06	1.81E-06	750	840	660	90	90	2.46E-07	2.46E-07	12
1950	1957	224	36627.153	0.017	224.4255	224.5	1.17E-06	1.94E-06	4.10E-07	429	708	149	279	279	7.64E-07	7.64E-07	65
1950	1957	225	36627.196	0.011	225.1762	225.5	2.24E-06	2.92E-06	1.56E-06	817	1066	568	249	249	6.83E-07	6.83E-07	30
1950	1957	226	36627.278	0.014	226.1769	226.5	-3.55E-07	4.64E-07	-1.17E-06	-130	169	-429	299	299	8.19E-07	8.19E-07	-231
1950	1957	227	36627.265	0.016	227.1776	227.5	3.55E-07	1.06E-06	-3.55E-07	130	389	-130	259	259	7.10E-07	7.10E-07	200
1950	1957	228	36627.278	0.01	228.1783	228.5	1.83E-06	2.43E-06	1.23E-06	668	887	448	219	219	6.01E-07	6.01E-07	33
1950	1957	229	36627.345	0.012	229.179	229.5	1.56E-06	2.16E-06	9.56E-07	568	787	349	219	219	6.01E-07	6.01E-07	39
1950	1957	230	36627.402	0.01	230.1797	230.5	3.28E-07	8.74E-07	-2.18E-07	120	319	-80	199	199	5.46E-07	5.46E-07	167
1950	1957	231	36627.414	0.01	231.1804	231.5	3.55E-06	4.29E-06	2.81E-06	1295	1565	1026	269	269	7.37E-07	7.37E-07	21
1950	1957	232	36627.544	0.017	232.1811	232.5	2.27E-06	3.06E-06	1.47E-06	827	1116	538	289	289	7.92E-07	7.92E-07	35
1950	1957	233	36627.627	0.012	233.1818	233.5	2.07E-06	2.73E-06	1.42E-06	757	997	518	239	239	6.55E-07	6.55E-07	32
1950	1957	234	36627.703	0.012	234.1825	234.5	8.74E-07	1.58E-06	1.64E-07	319	578	60	259	259	7.10E-07	7.10E-07	81
1950	1957	235	36627.735	0.014	235.1832	235.5	-1.09E-07	5.73E-07	-7.92E-07	-40	209	-289	249	249	6.83E-07	6.83E-07	-625
1950	1957	236	36627.731	0.011	236.1839	236.5	1.72E-06	2.35E-06	1.09E-06	628	857	399	229	229	6.28E-07	6.28E-07	37
1950	1957	237	36627.794	0.012	237.1846	237.5	3.88E-06	4.61E-06	3.14E-06	1415	1684	1146	269	269	7.37E-07	7.37E-07	19
1950	1957	238	36627.936	0.015	238.1853	238.5	1.23E-05	1.28E-05	1.19E-05	4504	4664	4345	159	159	4.37E-07	4.37E-07	4
1950	1957	240	36628.84	0.017	240.1866	240.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1950	7234	142	24275.11	0.014	142.1825	142.5	-5.97E-06	-4.86E-06	-7.09E-06	-2180	-1774	-2586	406	406	1.11E-06	1.11E-06	-19
1950	7234	143	24274.97	0.013	143.1832	143.5	-6.01E-06	-5.91E-06	-6.10E-06	-2193	-2158	-2228	35	35	9.61E-08	9.61E-08	-2
1950	7234	155	24273.22	0.015	155.17	155.5	-6.14E-06	-4.90E-06	-7.37E-06	-2241	-1789	-2692	451	451	1.24E-06	1.24E-06	-20
1950	7234	156	24273.07	0.015	156.1707	156.5	-5.97E-06	-4.74E-06	-7.21E-06	-2180	-1729	-2632	451	451	1.24E-06	1.24E-06	-21
1950	7234	157	24272.92	0.015	157.1714	157.5	-5.93E-06	-4.74E-06	-7.13E-06	-2165	-1729	-2601	436	436	1.19E-06	1.19E-06	-20
1950	7234	158	24272.78	0.014	158.1721	158.5	-6.06E-06	-4.90E-06	-7.21E-06	-2211	-1789	-2632	421	421	1.15E-06	1.15E-06	-19
1950	7234	159	24272.63	0.014	159.1728	159.5	-6.14E-06	-4.99E-06	-7.29E-06	-2241	-1820	-2662	421	421	1.15E-06	1.15E-06	-19
1950	7234	160	24272.48	0.014	160.1734	160.5	-5.93E-06	-4.61E-06	-7.25E-06	-2165	-1684	-2647	481	481	1.32E-06	1.32E-06	-22
1950	7234	161	24272.34	0.018	161.1741	161.5	-5.97E-06	-4.57E-06	-7.37E-06	-2180	-1669	-2692	511	511	1.40E-06	1.40E-06	-23
1950	7234	162	24272.19	0.016	162.1748	162.5	-5.97E-06	-4.74E-06	-7.21E-06	-2180	-1729	-2632	451	451	1.24E-06	1.24E-06	-21
1950	7234	163	24272.05	0.014	163.1755	163.5	-6.02E-06	-4.86E-06	-7.17E-06	-2196	-1774	-2617	421	421	1.15E-06	1.15E-06	-19
1950	7234	164	24271.9	0.014	164.1762	164.5	-5.85E-06	-4.61E-06	-7.09E-06	-2135	-1684	-2587	451	451	1.24E-06	1.24E-06	-21
1950	7234	165	24271.76	0.016	165.1769	165.5	-6.02E-06	-4.78E-06	-7.25E-06	-2196	-1744	-2647	451	451	1.24E-06	1.24E-06	-21
1950	7234	166	24271.61	0.014	166.1776	166.5	-5.85E-06	-4.74E-06	-6.96E-06	-2135	-1729	-2541	406	406	1.11E-06	1.11E-06	-19
1950	7234	167	24271.47	0.013	167.1783	167.5	-5.89E-06	-4.82E-06	-6.96E-06	-2150	-1759	-2541	391	391	1.07E-06	1.07E-06	-18
1950	7234	168	24271.33	0.013	168.179	168.5	-5.85E-06	-4.74E-06	-6.96E-06	-2135	-1729	-2541	406	406	1.11E-06	1.11E-06	-19
1950	7234	169	24271.19	0.014	169.1797	169.5	-5.81E-06	-4.70E-06	-6.92E-06	-2120	-1714	-2526	406	406	1.11E-06	1.11E-06	-19
1950	7234	170	24271.05	0.013	170.1804	170.5	-5.69E-06	-4.66E-06	-6.72E-06	-2075	-1699	-2451	376	376	1.03E-06	1.03E-06	-18
1950	7234	171	24270.91	0.012	171.1811	171.5	-5.81E-06	-4.70E-06	-6.92E-06	-2120	-1714	-2526	406	406	1.11E-06	1.11E-06	-19
1950	7234	172	24270.77	0.015	172.1818	172.5	-5.81E-06	-4.57E-06	-7.05E-06	-2120	-1669	-2572	451	451	1.24E-06	1.24E-06	-21
1950	7234	173	24270.63	0.015	173.1825	173.5	-5.85E-06	-4.66E-06	-7.05E-06	-2136	-1699	-2572	436	436	1.19E-06	1.19E-06	-20
1950	7234	174	24270.48	0.014	174.1832	174.5	-5.69E-06	-4.57E-06	-6.80E-06	-2075	-1669	-2481	406	406	1.11E-06	1.11E-06	-20
1950	7234	175	24270.35	0.013	175.1839	175.5	-5.03E-06	-3.91E-06	-6.14E-06	-1835	-1429	-2241	406	406	1.11E-06	1.11E-06	-22
1950	7234	176	24270.22	0.014	176.1846	176.5	-3.75E-06	-2.60E-06	-4.90E-06	-1369	-947	-1790	421	421	1.15E-06	1.15E-06	-31
1950	7234	177	24270.13	0.014	177.1853	177.5	-2.47E-06	-1.32E-06	-3.63E-06	-902	-481	-1323	421	421	1.15E-06	1.15E-06	-47
1950	7234	178	24270.07	0.014	178.1859	178.5	-2.47E-06	-1.28E-06	-3.67E-06	-902	-466	-1338	436	436	1.19E-06	1.19E-06	-48
1950	7234	179	24270.01	0.015	179.1866	179.5	-1.81E-06	-6.59E-07	-2.97E-06	-662	-241	-1083	421	421	1.15E-06	1.15E-06	-64
1950	7234	180	24269.97	0.013	180.1873	180.5	-2.47E-06	-1.36E-06	-3.58E-06	-902	-496	-1308	406	406	1.11E-06	1.11E-06	-45
1950	7234	181	24269.91	0.014	181.188	181.5	-2.35E-06	-1.24E-06	-3.46E-06	-857	-451	-1263	406	406	1.11E-06	1.11E-06	-47
1950	7234	182	24269.85	0.013	182.1679	182.5	-2.39E-06	-1.28E-06	-3.50E-06	-872	-466	-1278	406	406	1.11E-06	1.11E-06	-47
1950	7234	183	24269.79	0.014	183.1686	183.5	-3.58E-06	-2.39E-06	-4.78E-06	-1308	-872	-1745	436	436	1.19E-06	1.19E-06	-33
1950	7234	184	24269.71	0.015	184.1693	184.5	-3.30E-06	-2.02E-06	-4.57E-06	-1203	-737	-1669	466	466	1.28E-06	1.28E-06	-39
1950	7234	185	24269.63	0.016	185.17	185.5	-3.50E-06	-2.27E-06	-4.74E-06	-1278	-827	-1730	451	451	1.24E-06	1.24E-06	-35
1950	7234	186	24269.54	0.014	186.1707	186.5	-3.38E-06	-2.23E-06	-4.53E-06	-1233	-812	-1654	421	421	1.15E-06	1.15E-06	-34
1950	7234	187	24269.46	0.014	187.1714	187.5	-3.50E-06	-2.39E-06	-4.61E-06	-1278	-872	-1684	406	406	1.11E-06	1.11E-06	-32
1950	7234	188	24269.37	0.013	188.1721	188.5	-3.46E-06	-2.39E-06	-4.53E-06	-1263	-872	-1654	391	391	1.07E-06	1.07E-06	-31
1950	7234	189	24269.29	0.013	189.1728	189.5	4.12E-07	1.61E-06	-7.83E-07	150	587	-286	436	436	1.19E-06	1.19E-06	290
1950	7234	190	24269.3	0.016	190.1734	190.5	7.33E-06	8.65E-06	6.02E-06	2677	3158	2196	481	481	1.32E-06	1.32E-06	18
1950	7234	191	24269.48	0.016	191.1741	191.5	-5.89E-06	-4.57E-06	-7.21E-06	-2151	-1669	-2632	481	481	1.32E-06	1.32E-06	-22
1950	7234	192	24269.34	0.016	192.1748	192.5	-4.00E-06	-2.72E-06	-5.27E-06	-1459	-993	-1925	466	466	1.28E-06	1.28E-06	-32
1950	7234	193	24269.24	0.015	193.1755	193.5	-4.45E-06	-3.26E-06	-5.65E-06	-1624	-1188	-2060	436	436	1.19E-06	1.19E-06	-27
1950	7234	194	24269.13	0.014	194.1762	194.5	-5.85E-06	-4.57E-06	-7.13E-06	-2136	-1669	-2602	466	466	1.28E-06	1.28E-06	-22
1950	7234	195	24268.99	0.017	195.1769	195.5	-5.19E-06	-3.79E-06	-6.59E-06	-1895	-1384	-2406	511	511	1.40E-06	1.40E-06	-27
1950	7234	196	24268.86	0.017	196.1776	196.5	-4.16E-06	-2.93E-06	-5.40E-06	-1519	-1068	-1970	451	451	1.24E-06	1.24E-06	-30
1950	7234	197	24268.76	0.013	197.1783	197.5	-4.94E-06	-3.83E-06	-6.06E-06	-1805	-1399	-2211	406	406	1.11E-06	1.11E-06	-23
1950	7234	198	24268.64	0.014	198.179	198.5	-2.27E-06	-1.15E-06	-3.38E-06	-827	-421	-1233	406	406	1.11E-06	1.11E-06	-49
1950	7234	199	24268.59	0.013	199.1797	199.5	-4.33E-06	-3.17E-06	-5.48E-06	-1579	-1158	-2000	421	421	1.15E-06	1.15E-06	-27
1950	7234	200	24268.48	0.015	200.1804	200.5	-5.07E-06	-4.45E-06	-5.69E-06	-1850	-1624	-2076	226	226	6.18E-07	6.18E-07	-12
1950	7234	202	24268.24	0.015	202.1818	202.5	-5.32E-06	-4.12E-06	-6.51E-06	-1940	-1504	-2376	436	436	1.19E-06	1.19E-06	-22
1950	7234	203	24268.11	0.014	203.1825	203.5	-4.78E-06	-3.63E-06	-5.93E-06	-1745	-1324	-2166	421	421	1.15E-06	1.15E-06	-24
1950	7234	204	24267.99	0.014	204.1832	204.5	-3.91E-06	-2.88E-06	-4.94E-06	-1429	-1053	-1805	376	376	1.03E-06	1.03E-06	-26
1950	7234	205	24267.9	0.011	205.1839	205.5	-4.66E-06	-3.75E-06	-5.56E-06	-1700	-1369	-2030	331	331	9.07E-07	9.07E-07	-19
1950	7234	206	24267.78	0.011	206.1846	206.5	-4.90E-06	-4.00E-06	-5.81E-06	-1790	-1459	-2121	331	331	9.07E-07	9.07E-07	-18
1950	7234	207	24267.66	0.011	207.1853	207.5	-5.89E-06	-5.42E-06	-6.37E-06	-2151	-1978	-2324	173	173	4.74E-07	4.74E-07	-8
1950	7234	209	24267.38	0.012	209.1866	209.5	-6.02E-06	-4.94E-06	-7.09E-06	-2196	-1805	-2587	391	391	1.07E-06	1.07E-06	-18
1950	7234	210	24267.23	0.014	210.1873	210.5	-6.47E-06	-5.48E-06	-7.46E-06	-2361	-2000	-2722	361	361	9.89E-07	9.89E-07	-15
1950	7234	211	24267.07	0.01	211.188	211.5	-5.89E-06	-5.03E-06	-6.76E-06	-2151	-1835	-2467	316	316	8.65E-07	8.65E-07	-15
1950	7234	212	24266.93	0.011	212.1887	212.5	-6.96E-06	-5.98E-06	-7.95E-06	-2542	-2181	-2903	361	361	9.89E-07	9.89E-07	-14
1950	7234	213	24266.76	0.013	213.1679	213.5	-6.72E-06	-5.73E-06	-7.71E-06	-2452	-2091	-2813	361	361	9.89E-07	9.89E-07	-15
1950	7234	214	24266.6	0.011	214.1686	214.5	-6.39E-06	-5.95E-06	-6.82E-06	-2331	-2173	-2489	158	158	4.33E-07	4.33E-07	-7
1950	7234	216	24266.29	0.01	216.17	216.5	-5.36E-06	-4.49E-06	-6.22E-06	-1955	-1640	-2271	316	316	8.65E-07	8.65E-07	-16
1950	7234	217	24266.16	0.011	217.1707	217.5	-6.22E-06	-5.23E-06	-7.21E-06	-2271	-1910	-2632	361	361	9.89E-07	9.89E-07	-16
1950	7234	218	24266.01	0.013	218.1714	218.5	-6.43E-06	-5.44E-06	-7.42E-06	-2346	-1985	-2707	361	361	9.89E-07	9.89E-07	-15
1950	7234	219	24265.85	0.011	219.1721	219.5	-4.33E-06	-3.42E-06	-5.23E-06	-1579	-1248	-1910	331	331	9.07E-07	9.07E-07	-21
1950	7234	220	24265.75	0.011	220.1728	220.5	-3.63E-06	-3.09E-06	-4.16E-06	-1324	-1128	-1519	196	196	5.36E-07	5.36E-07	-15
1950	7234	222	24265.57	0.015	222.1741	222.5	-4.80E-06	-4.22E-06	-5.38E-06	-1752	-1542	-1963	211	211	5.77E-07	5.77E-07	-12
1950	7234	224	24265.34	0.013	224.4255	224.5	-2.51E-06	-1.48E-06	-3.54E-06	-918	-542	-1294	376	376	1.03E-06	1.03E-06	-41
1950	7234	225	24265.28	0.012	225.1762	225.5	-3.87E-06	-2.84E-06	-4.90E-06	-1414	-1038	-1790	376	376	1.03E-06	1.03E-06	-27
1950	7234	226	24265.18	0.013	226.1769	226.5	-5.89E-06	-4.86E-06	-6.92E-06	-2151	-1775	-2527	376	376	1.03E-06	1.03E-06	-17
1950	7234	227	24265.04	0.012	227.1776	227.5	-6.06E-06	-5.11E-06	-7.01E-06	-2211	-1865	-2557	346	346	9.48E-07	9.48E-07	-16
1950	7234	228	24264.89	0.011	228.1783	228.5	-5.73E-06	-4.82E-06	-6.64E-06	-2091	-1760	-2422	331	331	9.07E-07	9.07E-07	-16
1950	7234	229	24264.75	0.011	229.179	229.5	-6.80E-06	-5.89E-06	-7.71E-06	-2482	-2151	-2813	331	331	9.07E-07	9.07E-07	-13
1950	7234	230	24264.59	0.011	230.1797	230.5	-6.96E-06	-6.02E-06	-7.91E-06	-2542	-2196	-2888	346	346	9.48E-07	9.48E-07	-14
1950	7234	231	24264.42	0.012	231.1804	231.5	-5.11E-06	-3.87E-06	-6.35E-06	-1865	-1414	-2317	451	451	1.24E-06	1.24E-06	-24
1950	7234	232	24264.3	0.018	232.1811	232.5	-7.09E-06	-5.85E-06	-8.33E-06	-2587	-2136	-3039	451	451	1.24E-06	1.24E-06	-17
1950	7234	233	24264.12	0.012	233.1818	233.5	-7.05E-06	-6.06E-06	-8.04E-06	-2572	-2211	-2933	361	361	9.89E-07	9.89E-07	-14
1950	7234	234	24263.95	0.012	234.1825	234.5	-6.59E-06	-5.56E-06	-7.62E-06	-2407	-2031	-2783	376	376	1.03E-06	1.03E-06	-16
1950	7234	235	24263.79	0.013	235.1832	235.5	-7.54E-06	-6.55E-06	-8.53E-06	-2753	-2392	-3114	361	361	9.89E-07	9.89E-07	-13
1950	7234	236	24263.61	0.011	236.1839	236.5	-6.72E-06	-5.73E-06	-7.71E-06	-2452	-2091	-2813	361	361	9.89E-07	9.89E-07	-15
1950	7234	237	24263.45	0.013	237.1846	237.5	-6.88E-06	-5.85E-06	-7.91E-06	-2512	-2136	-2888	376	376	1.03E-06	1.03E-06	-15
1950	7234	238	24263.28	0.012	238.1853	238.5	-6.22E-06	-5.11E-06	-7.34E-06	-2272	-1865	-2678	406	406	1.11E-06	1.11E-06	-18
1950	7234	239	24263.13	0.015	239.1859	239.5	-3.46E-06	-2.43E-06	-4.49E-06	-1264	-888	-1640	376	376	1.03E-06	1.03E-06	-30
1950	7234	240	24263.05	0.01	240.1866	240.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1950	7237	142	37861.95	0.014	142.1825	142.5	-4.25E-06	-3.54E-06	-4.97E-06	-1552	-1292	-1812	260	260	7.13E-07	7.13E-07	-17
1950	7237	143	37861.79	0.013	143.1832	143.5	-4.34E-06	-5.13E-05	-5.28E-05	-1583	-18712	-19272	-17130	17689	-4.69E-05	4.85E-05	1082
1950	7237	155	37859.82	0.016	155.17	155.5	-4.41E-06	-3.59E-06	-5.23E-06	-1610	-1311	-1909	299	299	8.19E-07	8.19E-07	-19
1950	7237	156	37859.65	0.015	156.1707	156.5	-4.33E-06	-3.51E-06	-5.15E-06	-1581	-1282	-1880	299	299	8.19E-07	8.19E-07	-19
1950	7237	157	37859.48	0.016	157.1714	157.5	-4.28E-06	-3.46E-06	-5.10E-06	-1562	-1263	-1861	299	299	8.19E-07	8.19E-07	-19
1950	7237	158	37859.32	0.015	158.1721	158.5	-4.28E-06	-3.46E-06	-5.10E-06	-1562	-1263	-1861	299	299	8.19E-07	8.19E-07	-19
1950	7237	159	37859.16	0.016	159.1728	159.5	-4.31E-06	-3.43E-06	-5.18E-06	-1571	-1253	-1890	318	318	8.72E-07	8.72E-07	-20
1950	7237	160	37859	0.017	160.1734	160.5	-4.20E-06	-3.30E-06	-5.10E-06	-1533	-1205	-1861	328	328	8.98E-07	8.98E-07	-21
1950	7237	161	37858.84	0.017	161.1741	161.5	-4.20E-06	-3.33E-06	-5.07E-06	-1533	-1215	-1851	318	318	8.72E-07	8.72E-07	-21
1950	7237	162	37858.68	0.016	162.1748	162.5	-4.07E-06	-3.25E-06	-4.89E-06	-1485	-1186	-1784	299	299	8.19E-07	8.19E-07	-20
1950	7237	163	37858.53	0.015	163.1755	163.5	-3.91E-06	-3.14E-06	-4.68E-06	-1427	-1147	-1706	280	280	7.66E-07	7.66E-07	-20
1950	7237	164	37858.38	0.014	164.1762	164.5	-3.65E-06	-2.83E-06	-4.46E-06	-1330	-1032	-1629	299	299	8.19E-07	8.19E-07	-22
1950	7237	165	37858.24	0.017	165.1769	165.5	-3.46E-06	-2.59E-06	-4.33E-06	-1263	-945	-1581	318	318	8.72E-07	8.72E-07	-25
1950	7237	166	37858.11	0.016	166.1776	166.5	-3.57E-06	-2.75E-06	-4.38E-06	-1302	-1003	-1600	299	299	8.19E-07	8.19E-07	-23
1950	7237	167	37857.97	0.015	167.1783	167.5	-3.78E-06	-2.98E-06	-4.57E-06	-1379	-1089	-1668	289	289	7.92E-07	7.92E-07	-21
1950	7237	168	37857.83	0.015	168.179	168.5	-3.54E-06	-2.75E-06	-4.33E-06	-1292	-1003	-1581	289	289	7.92E-07	7.92E-07	-22
1950	7237	169	37857.7	0.015	169.1797	169.5	-3.49E-06	-2.72E-06	-4.25E-06	-1273	-993	-1552	280	280	7.66E-07	7.66E-07	-22
1950	7237	170	37857.56	0.014	170.1804	170.5	-3.59E-06	-2.88E-06	-4.31E-06	-1311	-1051	-1572	260	260	7.13E-07	7.13E-07	-20
1950	7237	171	37857.43	0.013	171.1811	171.5	-3.67E-06	-2.91E-06	-4.44E-06	-1340	-1061	-1620	280	280	7.66E-07	7.66E-07	-21
1950	7237	172	37857.29	0.016	172.1818	172.5	-3.49E-06	-2.62E-06	-4.36E-06	-1273	-955	-1591	318	318	8.72E-07	8.72E-07	-25
1950	7237	173	37857.16	0.017	173.1825	173.5	-3.09E-06	-2.27E-06	-3.91E-06	-1128	-829	-1427	299	299	8.19E-07	8.19E-07	-26
1950	7237	174	37857.04	0.014	174.1832	174.5	-2.06E-06	-1.32E-06	-2.80E-06	-752	-482	-1022	270	270	7.40E-07	7.40E-07	-36
1950	7237	175	37856.96	0.014	175.1839	175.5	-2.01E-06	-1.29E-06	-2.72E-06	-733	-472	-993	260	260	7.13E-07	7.13E-07	-36
1950	7237	176	37856.89	0.013	176.1846	176.5	-4.75E-07	2.38E-07	-1.19E-06	-174	87	-434	260	260	7.13E-07	7.13E-07	-150
1950	7237	177	37856.87	0.014	177.1853	177.5	-7.92E-07	-2.64E-08	-1.56E-06	-289	-10	-569	280	280	7.66E-07	7.66E-07	-97
1950	7237	178	37856.84	0.015	178.1859	178.5	-1.48E-06	-7.13E-07	-2.25E-06	-540	-260	-820	280	280	7.66E-07	7.66E-07	-52
1950	7237	179	37856.78	0.014	179.1866	179.5	-1.37E-06	-6.60E-07	-2.09E-06	-501	-241	-762	260	260	7.13E-07	7.13E-07	-52
1950	7237	180	37856.73	0.013	180.1873	180.5	-3.04E-06	-2.32E-06	-3.75E-06	-1109	-848	-1369	260	260	7.13E-07	7.13E-07	-23
1950	7237	181	37856.62	0.014	181.188	181.5	-1.88E-06	-1.14E-06	-2.62E-06	-685	-415	-955	270	270	7.40E-07	7.40E-07	-39
1950	7237	182	37856.54	0.014	182.1679	182.5	-3.67E-06	-2.91E-06	-4.44E-06	-1340	-1061	-1620	280	280	7.66E-07	7.66E-07	-21
1950	7237	183	37856.41	0.015	183.1686	183.5	-3.28E-06	-2.48E-06	-4.07E-06	-1196	-906	-1485	289	289	7.92E-07	7.92E-07	-24
1950	7237	184	37856.28	0.015	184.1693	184.5	-3.91E-06	-3.09E-06	-4.73E-06	-1427	-1128	-1726	299	299	8.19E-07	8.19E-07	-21
1950	7237	185	37856.13	0.016	185.17	185.5	-3.72E-06	-2.93E-06	-4.52E-06	-1359	-1070	-1649	289	289	7.92E-07	7.92E-07	-21
1950	7237	186	37855.99	0.014	186.1707	186.5	-3.49E-06	-2.75E-06	-4.23E-06	-1273	-1003	-1543	270	270	7.40E-07	7.40E-07	-21
1950	7237	187	37855.86	0.014	187.1714	187.5	-3.38E-06	-2.67E-06	-4.09E-06	-1234	-974	-1494	260	260	7.13E-07	7.13E-07	-21
1950	7237	188	37855.73	0.013	188.1721	188.5	-2.91E-06	-2.17E-06	-3.65E-06	-1061	-791	-1331	270	270	7.40E-07	7.40E-07	-25
1950	7237	189	37855.62	0.015	189.1728	189.5	-1.32E-06	-5.28E-07	-2.11E-06	-482	-193	-771	289	289	7.92E-07	7.92E-07	-60
1950	7237	190	37855.57	0.015	190.1734	190.5	-7.13E-07	1.32E-07	-1.56E-06	-260	48	-569	309	309	8.45E-07	8.45E-07	-119
1950	7237	191	37855.55	0.017	191.1741	191.5	-1.14E-06	-2.64E-07	-2.01E-06	-415	-96	-733	318	318	8.72E-07	8.72E-07	-77
1950	7237	192	37855.5	0.016	192.1748	192.5	-1.98E-06	-1.14E-06	-2.83E-06	-723	-415	-1032	309	309	8.45E-07	8.45E-07	-43
1950	7237	193	37855.43	0.016	193.1755	193.5	-3.14E-06	-2.32E-06	-3.96E-06	-1147	-848	-1446	299	299	8.19E-07	8.19E-07	-26
1950	7237	194	37855.31	0.015	194.1762	194.5	-4.52E-06	-3.70E-06	-5.34E-06	-1649	-1350	-1948	299	299	8.19E-07	8.19E-07	-18
1950	7237	195	37855.14	0.016	195.1769	195.5	-4.12E-06	-7.45E-06	-9.03E-06	-1504	-2719	-3298	-1215	1793	-3.33E-06	4.91E-06	81
1950	7237	197	37854.83	0.014	197.1783	197.5	-4.28E-06	-3.51E-06	-5.05E-06	-1562	-1282	-1842	280	280	7.66E-07	7.66E-07	-18
1950	7237	198	37854.66	0.015	198.179	198.5	-2.59E-06	-1.82E-06	-3.35E-06	-945	-665	-1225	280	280	7.66E-07	7.66E-07	-30
1950	7237	199	37854.57	0.014	199.1797	199.5	-4.04E-06	-3.28E-06	-4.81E-06	-1475	-1196	-1755	280	280	7.66E-07	7.66E-07	-19
1950	7237	200	37854.41	0.015	200.1804	200.5	-3.67E-06	-2.85E-06	-4.49E-06	-1340	-1041	-1639	299	299	8.19E-07	8.19E-07	-22
1950	7237	201	37854.27	0.016	201.1811	201.5	-4.23E-06	-3.43E-06	-5.02E-06	-1543	-1253	-1832	289	289	7.93E-07	7.93E-07	-19
1950	7237	202	37854.11	0.014	202.1818	202.5	-4.12E-06	-3.38E-06	-4.86E-06	-1504	-1234	-1774	270	270	7.40E-07	7.40E-07	-18
1950	7237	203	37853.96	0.014	203.1825	203.5	-3.62E-06	-2.83E-06	-4.41E-06	-1321	-1032	-1610	289	289	7.93E-07	7.93E-07	-22
1950	7237	204	37853.82	0.016	204.1832	204.5	-3.12E-06	-2.38E-06	-3.86E-06	-1138	-868	-1408	270	270	7.40E-07	7.40E-07	-24
1950	7237	205	37853.7	0.012	205.1839	205.5	-3.09E-06	-2.46E-06	-3.72E-06	-1128	-897	-1360	231	231	6.34E-07	6.34E-07	-21
1950	7237	206	37853.59	0.012	206.1846	206.5	-3.75E-06	-3.12E-06	-4.39E-06	-1369	-1138	-1601	231	231	6.34E-07	6.34E-07	-17
1950	7237	207	37853.44	0.012	207.1853	207.5	-4.33E-06	-3.70E-06	-4.97E-06	-1581	-1350	-1813	231	231	6.34E-07	6.34E-07	-15
1950	7237	208	37853.28	0.012	208.1859	208.5	-3.80E-06	-3.12E-06	-4.49E-06	-1389	-1138	-1639	251	251	6.87E-07	6.87E-07	-18
1950	7237	209	37853.14	0.014	209.1866	209.5	-4.12E-06	-3.33E-06	-4.91E-06	-1504	-1215	-1794	289	289	7.93E-07	7.93E-07	-19
1950	7237	210	37852.98	0.016	210.1873	210.5	-4.62E-06	-3.88E-06	-5.36E-06	-1687	-1417	-1957	270	270	7.40E-07	7.40E-07	-16
1950	7237	211	37852.8	0.012	211.188	211.5	-3.49E-06	-2.85E-06	-4.12E-06	-1273	-1041	-1504	231	231	6.34E-07	6.34E-07	-18
1950	7237	212	37852.67	0.012	212.1887	212.5	-4.60E-06	-3.91E-06	-5.28E-06	-1678	-1427	-1929	251	251	6.87E-07	6.87E-07	-15
1950	7237	213	37852.5	0.014	213.1679	213.5	-4.39E-06	-3.70E-06	-5.07E-06	-1601	-1350	-1851	251	251	6.87E-07	6.87E-07	-16
1950	7237	214	37852.33	0.012	214.1686	214.5	-3.79E-06	-6.95E-06	-8.22E-06	-1384	-2536	-2999	-1152	1615	-3.16E-06	4.43E-06	83
1950	7237	216	37852.05	0.012	216.17	216.5	-3.43E-06	-2.75E-06	-4.12E-06	-1254	-1003	-1504	251	251	6.87E-07	6.87E-07	-20
1950	7237	217	37851.92	0.014	217.1707	217.5	-4.39E-06	-3.57E-06	-5.20E-06	-1601	-1302	-1900	299	299	8.19E-07	8.19E-07	-19
1950	7237	218	37851.75	0.017	218.1714	218.5	-3.99E-06	-3.20E-06	-4.78E-06	-1456	-1167	-1745	289	289	7.93E-07	7.93E-07	-20
1950	7237	219	37851.6	0.013	219.1721	219.5	-3.09E-06	-2.32E-06	-3.86E-06	-1128	-849	-1408	280	280	7.66E-07	7.66E-07	-25
1950	7237	220	37851.48	0.016	220.1728	220.5	-1.89E-06	-2.83E-06	-4.73E-06	-689	-1032	-1726	-342	1037	-9.38E-07	2.84E-06	50
1950	7237	222	37851.34	0.02	222.1741	222.5	-4.06E-06	-7.13E-06	-9.09E-06	-1480	-2604	-3317	-1123	1837	-3.08E-06	5.03E-06	76
1950	7237	224	37851.03	0.017	224.4255	224.5	-2.83E-06	-2.03E-06	-3.62E-06	-1032	-743	-1321	289	289	7.93E-07	7.93E-07	-28
1950	7237	225	37850.92	0.013	225.1762	225.5	-3.17E-06	-2.46E-06	-3.88E-06	-1157	-897	-1418	260	260	7.13E-07	7.13E-07	-23
1950	7237	226	37850.8	0.014	226.1769	226.5	-3.96E-06	-3.20E-06	-4.73E-06	-1446	-1167	-1726	280	280	7.66E-07	7.66E-07	-19
1950	7237	227	37850.65	0.015	227.1776	227.5	-5.05E-06	-4.33E-06	-5.76E-06	-1842	-1581	-2102	260	260	7.13E-07	7.13E-07	-14
1950	7237	228	37850.46	0.012	228.1783	228.5	-3.96E-06	-3.30E-06	-4.62E-06	-1446	-1205	-1688	241	241	6.60E-07	6.60E-07	-17
1950	7237	229	37850.31	0.013	229.179	229.5	-2.46E-06	-1.80E-06	-3.12E-06	-897	-656	-1138	241	241	6.60E-07	6.60E-07	-27
1950	7237	230	37850.22	0.012	230.1797	230.5	-3.86E-06	-3.25E-06	-4.46E-06	-1408	-1186	-1630	222	222	6.08E-07	6.08E-07	-16
1950	7237	231	37850.07	0.011	231.1804	231.5	-1.06E-06	-2.11E-07	-1.90E-06	-386	-77	-694	309	309	8.45E-07	8.45E-07	-80
1950	7237	232	37850.03	0.021	232.1811	232.5	-1.85E-06	-9.51E-07	-2.75E-06	-675	-347	-1003	328	328	8.98E-07	8.98E-07	-49
1950	7237	233	37849.96	0.013	233.1818	233.5	-1.56E-06	-8.72E-07	-2.25E-06	-569	-318	-820	251	251	6.87E-07	6.87E-07	-44
1950	7237	234	37849.91	0.013	234.1825	234.5	-2.59E-06	-1.88E-06	-3.30E-06	-945	-685	-1205	260	260	7.13E-07	7.13E-07	-28
1950	7237	235	37849.81	0.014	235.1832	235.5	-1.08E-06	-3.70E-07	-1.80E-06	-395	-135	-656	260	260	7.13E-07	7.13E-07	-66
1950	7237	236	37849.77	0.013	236.1839	236.5	1.27E-06	1.96E-06	5.81E-07	463	714	212	251	251	6.87E-07	6.87E-07	54
1950	7237	237	37849.81	0.013	237.1846	237.5	1.27E-06	2.06E-06	4.76E-07	463	752	174	289	289	7.93E-07	7.93E-07	62
1950	7237	238	37849.86	0.017	238.1853	238.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1950	7239	142	21726.21	0.013	142.1825	142.5	1.65698E-06	2.80767E-06	5.063E-07	605	1025	185	420	420	1.15E-06	1.15E-06	69
1950	7239	143	21726.25	0.012	143.1832	143.5	1.67614E-06	1.77203E-06	1.58025E-06	612	647	577	35	35	9.59E-08	9.59E-08	6
1950	7239	155	21726.68	0.013	155.17	155.5	1.56489E-06	2.76158E-06	3.68211E-07	571	1008	134	437	437	1.2E-06	1.2E-06	76
1950	7239	156	21726.72	0.013	156.1707	156.5	1.70297E-06	2.89965E-06	5.06289E-07	622	1058	185	437	437	1.2E-06	1.2E-06	70
1950	7239	157	21726.75	0.013	157.1714	157.5	1.65694E-06	2.8076E-06	5.06288E-07	605	1025	185	420	420	1.15E-06	1.15E-06	69
1950	7239	158	21726.79	0.012	158.1721	158.5	1.65694E-06	2.76157E-06	5.52313E-07	605	1008	202	403	403	1.1E-06	1.1E-06	67
1950	7239	159	21726.83	0.012	159.1728	159.5	1.56488E-06	2.76156E-06	3.68208E-07	571	1008	134	437	437	1.2E-06	1.2E-06	76
1950	7239	160	21726.86	0.014	160.1734	160.5	1.79501E-06	3.08374E-06	5.06285E-07	655	1126	185	470	470	1.29E-06	1.29E-06	72
1950	7239	161	21726.9	0.014	161.1741	161.5	1.74898E-06	3.03771E-06	4.60259E-07	638	1109	168	470	470	1.29E-06	1.29E-06	74
1950	7239	162	21726.94	0.014	162.1748	162.5	1.6109E-06	2.80757E-06	4.14232E-07	588	1025	151	437	437	1.2E-06	1.2E-06	74
1950	7239	163	21726.97	0.012	163.1755	163.5	1.70295E-06	2.85359E-06	5.52308E-07	622	1042	202	420	420	1.15E-06	1.15E-06	68
1950	7239	164	21727.01	0.013	164.1762	164.5	1.84102E-06	3.03769E-06	6.44359E-07	672	1109	235	437	437	1.2E-06	1.2E-06	65
1950	7239	165	21727.05	0.013	165.1769	165.5	1.65692E-06	2.85358E-06	4.60255E-07	605	1042	168	437	437	1.2E-06	1.2E-06	72
1950	7239	166	21727.09	0.013	166.1776	166.5	1.70294E-06	2.85358E-06	5.52306E-07	622	1042	202	420	420	1.15E-06	1.15E-06	68
1950	7239	167	21727.12	0.012	167.1783	167.5	1.74896E-06	2.8996E-06	5.9833E-07	638	1058	218	420	420	1.15E-06	1.15E-06	66
1950	7239	168	21727.16	0.013	168.179	168.5	1.70294E-06	2.85357E-06	5.52304E-07	622	1042	202	420	420	1.15E-06	1.15E-06	68
1950	7239	169	21727.2	0.012	169.1797	169.5	1.88703E-06	2.99164E-06	7.82429E-07	689	1092	286	403	403	1.1E-06	1.1E-06	59
1950	7239	170	21727.24	0.012	170.1804	170.5	1.79498E-06	2.85356E-06	7.36402E-07	655	1042	269	386	386	1.06E-06	1.06E-06	59
1950	7239	171	21727.28	0.011	171.1811	171.5	1.79498E-06	2.89958E-06	6.90376E-07	655	1058	252	403	403	1.1E-06	1.1E-06	62
1950	7239	172	21727.32	0.013	172.1818	172.5	1.6569E-06	2.89957E-06	4.14225E-07	605	1058	151	454	454	1.24E-06	1.24E-06	75
1950	7239	173	21727.35	0.014	173.1825	173.5	1.97907E-06	3.26777E-06	6.90373E-07	722	1193	252	470	470	1.29E-06	1.29E-06	65
1950	7239	174	21727.4	0.014	174.1832	174.5	1.84099E-06	3.08366E-06	5.98322E-07	672	1126	218	454	454	1.24E-06	1.24E-06	68
1950	7239	175	21727.44	0.013	175.1839	175.5	2.66943E-06	3.86607E-06	1.47279E-06	974	1411	538	437	437	1.2E-06	1.2E-06	45
1950	7239	176	21727.49	0.013	176.1846	176.5	4.55643E-06	5.75307E-06	3.35979E-06	1663	2100	1226	437	437	1.2E-06	1.2E-06	26
1950	7239	177	21727.59	0.013	177.1853	177.5	8.19231E-06	9.43497E-06	6.94966E-06	2990	3444	2537	454	454	1.24E-06	1.24E-06	15
1950	7239	178	21727.77	0.014	178.1859	178.5	7.04166E-06	8.33032E-06	5.75299E-06	2570	3041	2100	470	470	1.29E-06	1.29E-06	18
1950	7239	179	21727.92	0.014	179.1866	179.5	9.57289E-06	1.07695E-05	8.37628E-06	3494	3931	3057	437	437	1.2E-06	1.2E-06	13
1950	7239	180	21728.13	0.012	180.1873	180.5	7.3637E-06	8.5603E-06	6.1671E-06	2688	3125	2251	437	437	1.2E-06	1.2E-06	16
1950	7239	181	21728.29	0.014	181.188	181.5	8.56023E-06	9.80285E-06	7.31762E-06	3124	3578	2671	454	454	1.24E-06	1.24E-06	15
1950	7239	182	21728.48	0.013	182.1679	182.5	1.54635E-05	1.67061E-05	1.42209E-05	5644	6098	5191	454	454	1.24E-06	1.24E-06	8
1950	7239	183	21728.81	0.014	183.1686	183.5	5.33852E-06	6.62713E-06	4.04991E-06	1949	2419	1478	470	470	1.29E-06	1.29E-06	24
1950	7239	184	21728.93	0.014	184.1693	184.5	4.78623E-06	6.07484E-06	3.49763E-06	1747	2217	1277	470	470	1.29E-06	1.29E-06	27
1950	7239	185	21729.03	0.014	185.17	185.5	4.83223E-06	6.07481E-06	3.58966E-06	1764	2217	1310	454	454	1.24E-06	1.24E-06	26
1950	7239	186	21729.14	0.013	186.1707	186.5	5.70661E-06	6.94917E-06	4.46404E-06	2083	2536	1629	454	454	1.24E-06	1.24E-06	22
1950	7239	187	21729.26	0.014	187.1714	187.5	6.12076E-06	7.36332E-06	4.8782E-06	2234	2688	1781	454	454	1.24E-06	1.24E-06	20
1950	7239	188	21729.4	0.013	188.1721	188.5	7.22521E-06	8.46776E-06	5.98266E-06	2637	3091	2184	454	454	1.24E-06	1.24E-06	17
1950	7239	189	21729.55	0.014	189.1728	189.5	2.67834E-05	2.82101E-05	2.53568E-05	9776	10297	9255	521	521	1.43E-06	1.43E-06	5
1950	7239	190	21730.13	0.017	190.1734	190.5	1.30233E-05	1.44959E-05	1.15507E-05	4754	5291	4216	537	537	1.47E-06	1.47E-06	11
1950	7239	191	21730.42	0.015	191.1741	191.5	5.93636E-06	7.36293E-06	4.50979E-06	2167	2687	1646	521	521	1.43E-06	1.43E-06	24
1950	7239	192	21730.55	0.016	192.1748	192.5	6.25845E-06	7.68501E-06	4.83189E-06	2284	2805	1764	521	521	1.43E-06	1.43E-06	23
1950	7239	193	21730.68	0.015	193.1755	193.5	5.66018E-06	6.9947E-06	4.32567E-06	2066	2553	1579	487	487	1.33E-06	1.33E-06	24
1950	7239	194	21730.81	0.014	194.1762	194.5	3.65839E-06	4.30263E-06	3.01414E-06	1335	1570	1100	235	235	6.44E-07	6.44E-07	18
1950	7239	196	21730.96	0.014	196.1776	196.5	4.78579E-06	6.07427E-06	3.49731E-06	1747	2217	1277	470	470	1.29E-06	1.29E-06	27
1950	7239	197	21731.07	0.014	197.1783	197.5	4.8778E-06	6.16627E-06	3.58932E-06	1780	2251	1310	470	470	1.29E-06	1.29E-06	26
1950	7239	198	21731.17	0.014	198.179	198.5	7.31665E-06	8.5591E-06	6.0742E-06	2671	3124	2217	453	453	1.24E-06	1.24E-06	17
1950	7239	199	21731.33	0.013	199.1797	199.5	5.79806E-06	7.08652E-06	4.5096E-06	2116	2587	1646	470	470	1.29E-06	1.29E-06	22
1950	7239	200	21731.46	0.015	200.1804	200.5	5.29185E-06	6.71835E-06	3.86535E-06	1932	2452	1411	521	521	1.43E-06	1.43E-06	27
1950	7239	201	21731.57	0.016	201.1811	201.5	3.03705E-06	4.41753E-06	1.65657E-06	1109	1612	605	504	504	1.38E-06	1.38E-06	45
1950	7239	202	21731.64	0.014	202.1818	202.5	3.58923E-06	4.83166E-06	2.3468E-06	1310	1764	857	453	453	1.24E-06	1.24E-06	35
1950	7239	203	21731.72	0.013	203.1825	203.5	3.68125E-06	4.92367E-06	2.43883E-06	1344	1797	890	453	453	1.24E-06	1.24E-06	34
1950	7239	204	21731.8	0.014	204.1832	204.5	4.09536E-06	4.69356E-06	3.49717E-06	1495	1713	1276	218	218	5.98E-07	5.98E-07	15
1950	7239	206	21731.98	0.012	206.1846	206.5	3.72722E-06	4.78557E-06	2.66887E-06	1360	1747	974	386	386	1.06E-06	1.06E-06	28
1950	7239	207	21732.06	0.011	207.1853	207.5	2.76089E-06	3.77322E-06	1.74857E-06	1008	1377	638	369	369	1.01E-06	1.01E-06	37
1950	7239	208	21732.12	0.011	208.1859	208.5	2.34675E-06	3.45111E-06	1.2424E-06	857	1260	453	403	403	1.1E-06	1.1E-06	47
1950	7239	209	21732.17	0.013	209.1866	209.5	2.30073E-06	3.54313E-06	1.05834E-06	840	1293	386	453	453	1.24E-06	1.24E-06	54
1950	7239	210	21732.22	0.014	210.1873	210.5	1.33442E-06	2.43877E-06	2.30073E-07	487	890	84	403	403	1.1E-06	1.1E-06	83
1950	7239	211	21732.25	0.01	211.188	211.5	1.61051E-06	2.5308E-06	6.90218E-07	588	924	252	336	336	9.2E-07	9.2E-07	57
1950	7239	212	21732.28	0.01	212.1887	212.5	5.52174E-07	1.56449E-06	-4.60145E-07	202	571	-168	369	369	1.01E-06	1.01E-06	183
1950	7239	213	21732.29	0.012	213.1679	213.5	6.44202E-07	1.65652E-06	-3.68116E-07	235	605	-134	369	369	1.01E-06	1.01E-06	157
1950	7239	214	21732.31	0.01	214.1686	214.5	2.85289E-06	3.33604E-06	2.36974E-06	1041	1218	865	176	176	4.83E-07	4.83E-07	17
1950	7239	216	21732.43	0.011	216.17	216.5	2.48476E-06	3.5891E-06	1.38042E-06	907	1310	504	403	403	1.1E-06	1.1E-06	44
1950	7239	217	21732.49	0.013	217.1707	217.5	1.49545E-06	2.09364E-06	8.97273E-07	546	764	328	218	218	5.98E-07	5.98E-07	40
1950	7239	219	21732.55	0.013	219.1721	219.5	4.18726E-06	5.24558E-06	3.12894E-06	1528	1915	1142	386	386	1.06E-06	1.06E-06	25
1950	7239	220	21732.64	0.01	220.1728	220.5	1.0132E-05	1.03528E-05	9.91111E-06	3698	3779	3618	81	81	2.21E-07	2.21E-07	2
1950	7239	225	21733.74	0.014	225.1762	225.5	2.14719E-06	2.54596E-06	1.74843E-06	784	929	638	146	146	3.99E-07	3.99E-07	19
1950	7239	228	21733.88	0.012	228.1783	228.5	5.79738E-06	7.03968E-06	4.55509E-06	2116	2569	1663	453	453	1.24E-06	1.24E-06	21
1950	7239	229	21734.01	0.015	229.179	229.5	-1.51289E-05	-1.48897E-05	-1.53682E-05	-5522	-5435	-5609	87	87	2.39E-07	2.39E-07	-2
1950	7239	234	21732.37	0.011	234.1825	234.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####	#####	#NUM!	#NUM!	#NUM!

7276	1950	142	5977.987	0.013	142.1825	142.5	-4.68E-06	-5.02E-07	-8.87E-06	-1710	-183	-3236	1526	1526	4.18E-06	4.18E-06	-89
7276	1950	143	5977.959	0.012	143.1832	143.5	-4.73E-06	-4.38E-06	-5.07E-06	-1725	-1598	-1852	127	127	3.49E-07	3.49E-07	-7
7276	1950	155	5977.62	0.013	155.17	155.5	-4.68E-06	-3.35E-07	-9.03E-06	-1710	-122	-3297	1588	1588	4.35E-06	4.35E-06	-93
7276	1950	156	5977.592	0.013	156.1707	156.5	-4.52E-06	0.00E+00	-9.03E-06	-1649	0	-3297	1649	1649	4.52E-06	4.52E-06	-100
7276	1950	157	5977.565	0.014	157.1714	157.5	-4.85E-06	-1.67E-07	-9.54E-06	-1771	-61	-3481	1710	1710	4.68E-06	4.68E-06	-97
7276	1950	158	5977.536	0.014	158.1721	158.5	-4.85E-06	-1.67E-07	-9.54E-06	-1771	-61	-3481	1710	1710	4.68E-06	4.68E-06	-97
7276	1950	159	5977.507	0.014	159.1728	159.5	-5.02E-06	-3.35E-07	-9.70E-06	-1832	-122	-3542	1710	1710	4.68E-06	4.68E-06	-93
7276	1950	160	5977.477	0.014	160.1734	160.5	-4.52E-06	3.35E-07	-9.37E-06	-1649	122	-3420	1771	1771	4.85E-06	4.85E-06	-107
7276	1950	161	5977.45	0.015	161.1741	161.5	-4.18E-06	6.69E-07	-9.03E-06	-1527	244	-3297	1771	1771	4.85E-06	4.85E-06	-116
7276	1950	162	5977.425	0.014	162.1748	162.5	-5.19E-06	-5.02E-07	-9.87E-06	-1893	-183	-3603	1710	1710	4.68E-06	4.68E-06	-90
7276	1950	163	5977.394	0.014	163.1755	163.5	-4.68E-06	0.00E+00	-9.37E-06	-1710	0	-3420	1710	1710	4.68E-06	4.68E-06	-100
7276	1950	164	5977.366	0.014	164.1762	164.5	-4.68E-06	3.35E-07	-9.70E-06	-1710	122	-3542	1832	1832	5.02E-06	5.02E-06	-107
7276	1950	165	5977.338	0.016	165.1769	165.5	-4.35E-06	6.69E-07	-9.37E-06	-1588	244	-3420	1832	1832	5.02E-06	5.02E-06	-115
7276	1950	166	5977.312	0.014	166.1776	166.5	-5.19E-06	-6.69E-07	-9.70E-06	-1893	-244	-3542	1649	1649	4.52E-06	4.52E-06	-87
7276	1950	167	5977.281	0.013	167.1783	167.5	-3.85E-06	6.69E-07	-8.37E-06	-1404	244	-3053	1649	1649	4.52E-06	4.52E-06	-117
7276	1950	168	5977.258	0.014	168.179	168.5	-5.19E-06	-6.69E-07	-9.70E-06	-1893	-244	-3542	1649	1649	4.52E-06	4.52E-06	-87
7276	1950	169	5977.227	0.013	169.1797	169.5	-4.68E-06	-1.67E-07	-9.20E-06	-1710	-61	-3359	1649	1649	4.52E-06	4.52E-06	-96
7276	1950	170	5977.199	0.014	170.1804	170.5	-4.52E-06	0.00E+00	-9.03E-06	-1649	0	-3298	1649	1649	4.52E-06	4.52E-06	-100
7276	1950	171	5977.172	0.013	171.1811	171.5	-4.68E-06	-1.67E-07	-9.20E-06	-1710	-61	-3359	1649	1649	4.52E-06	4.52E-06	-96
7276	1950	172	5977.144	0.014	172.1818	172.5	-4.52E-06	1.00E-06	-1.00E-05	-1649	366	-3664	2015	2015	5.52E-06	5.52E-06	-122
7276	1950	173	5977.117	0.019	173.1825	173.5	-4.68E-06	1.00E-06	-1.04E-05	-1710	366	-3786	2076	2076	5.69E-06	5.69E-06	-121
7276	1950	174	5977.089	0.015	174.1832	174.5	-4.85E-06	2.22E-16	-9.70E-06	-1771	0	-3542	1771	1771	4.85E-06	4.85E-06	-100
7276	1950	175	5977.06	0.014	175.1839	175.5	-4.85E-06	-1.67E-07	-9.54E-06	-1771	-61	-3481	1710	1710	4.68E-06	4.68E-06	-97
7276	1950	176	5977.031	0.014	176.1846	176.5	-4.68E-06	1.67E-07	-9.54E-06	-1710	61	-3481	1771	1771	4.85E-06	4.85E-06	-104
7276	1950	177	5977.003	0.015	177.1853	177.5	-4.02E-06	8.37E-07	-8.87E-06	-1466	305	-3237	1771	1771	4.85E-06	4.85E-06	-121
7276	1950	178	5976.979	0.014	178.1859	178.5	-4.35E-06	3.35E-07	-9.03E-06	-1588	122	-3298	1710	1710	4.68E-06	4.68E-06	-108
7276	1950	179	5976.953	0.014	179.1866	179.5	-1.51E-06	3.18E-06	-6.19E-06	-550	1160	-2260	1710	1710	4.68E-06	4.68E-06	-311
7276	1950	180	5976.944	0.014	180.1873	180.5	-2.68E-06	2.01E-06	-7.36E-06	-977	733	-2687	1710	1710	4.68E-06	4.68E-06	-175
7276	1950	181	5976.928	0.014	181.188	181.5	-1.51E-06	3.01E-06	-6.02E-06	-550	1099	-2198	1649	1649	4.52E-06	4.52E-06	-300
7276	1950	182	5976.919	0.013	182.1679	182.5	-1.17E-06	3.35E-06	-5.69E-06	-427	1221	-2076	1649	1649	4.52E-06	4.52E-06	-386
7276	1950	183	5976.912	0.014	183.1686	183.5	-3.85E-06	1.00E-06	-8.70E-06	-1405	366	-3176	1771	1771	4.85E-06	4.85E-06	-126
7276	1950	184	5976.889	0.015	184.1693	184.5	1.00E-06	6.02E-06	-4.02E-06	366	2198	-1466	1832	1832	5.02E-06	5.02E-06	500
7276	1950	185	5976.895	0.015	185.17	185.5	4.35E-06	9.54E-06	-8.37E-07	1588	3481	-305	1893	1893	5.19E-06	5.19E-06	119
7276	1950	186	5976.921	0.016	186.1707	186.5	1.17E-06	6.19E-06	-3.85E-06	427	2260	-1405	1832	1832	5.02E-06	5.02E-06	429
7276	1950	187	5976.928	0.014	187.1714	187.5	-1.67E-06	2.84E-06	-6.19E-06	-611	1038	-2260	1649	1649	4.52E-06	4.52E-06	-270
7276	1950	188	5976.918	0.013	188.1721	188.5	-2.51E-06	1.84E-06	-6.86E-06	-916	672	-2504	1588	1588	4.35E-06	4.35E-06	-173
7276	1950	189	5976.903	0.013	189.1728	189.5	-1.51E-06	3.01E-06	-6.02E-06	-550	1099	-2198	1649	1649	4.52E-06	4.52E-06	-300
7276	1950	190	5976.894	0.014	190.1734	190.5	-5.02E-07	4.35E-06	-5.35E-06	-183	1588	-1954	1771	1771	4.85E-06	4.85E-06	-967
7276	1950	191	5976.891	0.015	191.1741	191.5	-2.51E-06	2.51E-06	-7.53E-06	-916	916	-2748	1832	1832	5.02E-06	5.02E-06	-200
7276	1950	192	5976.876	0.015	192.1748	192.5	-1.34E-06	3.51E-06	-6.19E-06	-489	1282	-2260	1771	1771	4.85E-06	4.85E-06	-363
7276	1950	193	5976.868	0.014	193.1755	193.5	1.67E-07	4.68E-06	-4.35E-06	61	1710	-1588	1649	1649	4.52E-06	4.52E-06	2700
7276	1950	194	5976.869	0.013	194.1762	194.5	4.85E-06	9.54E-06	1.67E-07	1771	3481	61	1710	1710	4.68E-06	4.68E-06	97
7276	1950	195	5976.898	0.015	195.1769	195.5	-3.51E-06	1.34E-06	-8.37E-06	-1282	489	-3053	1771	1771	4.85E-06	4.85E-06	-138
7276	1950	196	5976.877	0.014	196.1776	196.5	-2.68E-06	2.01E-06	-7.36E-06	-977	733	-2687	1710	1710	4.68E-06	4.68E-06	-175
7276	1950	197	5976.861	0.014	197.1783	197.5	-3.01E-06	1.51E-06	-7.53E-06	-1099	550	-2748	1649	1649	4.52E-06	4.52E-06	-150
7276	1950	198	5976.843	0.013	198.179	198.5	-2.51E-06	1.84E-06	-6.86E-06	-916	672	-2504	1588	1588	4.35E-06	4.35E-06	-173
7276	1950	199	5976.828	0.013	199.1797	199.5	-4.35E-06	3.35E-07	-9.03E-06	-1588	122	-3298	1710	1710	4.68E-06	4.68E-06	-108
7276	1950	200	5976.802	0.015	200.1804	200.5	-1.51E-06	3.68E-06	-6.69E-06	-550	1344	-2443	1893	1893	5.19E-06	5.19E-06	-344
7276	1950	201	5976.793	0.016	201.1811	201.5	-8.87E-06	-3.68E-06	-1.41E-05	-3237	-1344	-5130	1893	1893	5.19E-06	5.19E-06	-58
7276	1950	202	5976.74	0.015	202.1818	202.5	-4.18E-06	6.69E-07	-9.04E-06	-1527	244	-3298	1771	1771	4.85E-06	4.85E-06	-116
7276	1950	203	5976.715	0.014	203.1825	203.5	1.34E-06	6.19E-06	-3.51E-06	489	2260	-1282	1771	1771	4.85E-06	4.85E-06	362
7276	1950	204	5976.723	0.015	204.1832	204.5	-2.51E-06	2.01E-06	-7.03E-06	-916	733	-2565	1649	1649	4.52E-06	4.52E-06	-180
7276	1950	205	5976.708	0.012	205.1839	205.5	-6.19E-06	-2.34E-06	-1.00E-05	-2260	-855	-3664	1405	1405	3.85E-06	3.85E-06	-62
7276	1950	206	5976.671	0.011	206.1846	206.5	1.67E-07	4.02E-06	-3.68E-06	61	1466	-1344	1405	1405	3.85E-06	3.85E-06	2300
7276	1950	207	5976.672	0.012	207.1853	207.5	-6.53E-06	-2.68E-06	-1.04E-05	-2382	-977	-3786	1405	1405	3.85E-06	3.85E-06	-59
7276	1950	208	5976.633	0.011	208.1859	208.5	-2.68E-06	1.17E-06	-6.53E-06	-977	427	-2382	1405	1405	3.85E-06	3.85E-06	-144
7276	1950	209	5976.617	0.012	209.1866	209.5	-8.87E-06	-4.68E-06	-1.31E-05	-3237	-1710	-4764	1527	1527	4.18E-06	4.18E-06	-47
7276	1950	210	5976.564	0.013	210.1873	210.5	-6.36E-06	-2.51E-06	-1.02E-05	-2321	-916	-3725	1405	1405	3.85E-06	3.85E-06	-61
7276	1950	211	5976.526	0.01	211.188	211.5	-5.52E-06	-2.01E-06	-9.04E-06	-2015	-733	-3298	1283	1283	3.51E-06	3.51E-06	-64
7276	1950	212	5976.493	0.011	212.1887	212.5	-7.86E-06	-3.85E-06	-1.19E-05	-2870	-1405	-4336	1466	1466	4.02E-06	4.02E-06	-51
7276	1950	213	5976.446	0.013	213.1679	213.5	-7.53E-06	-3.51E-06	-1.15E-05	-2748	-1283	-4214	1466	1466	4.02E-06	4.02E-06	-53
7276	1950	214	5976.401	0.011	214.1686	214.5	-4.60E-06	-2.84E-06	-6.36E-06	-1680	-1038	-2321	641	641	1.76E-06	1.76E-06	-38
7276	1950	216	5976.346	0.01	216.17	216.5	0.00E+00	3.35E-06	-3.35E-06	0	1221	-1221	1221	1221	3.35E-06	3.35E-06	0
7276	1950	217	5976.346	0.01	217.1707	217.5	-5.02E-06	-1.17E-06	-8.87E-06	-1832	-428	-3237	1405	1405	3.85E-06	3.85E-06	-77
7276	1950	218	5976.316	0.013	218.1714	218.5	-1.25E-05	-8.20E-06	-1.69E-05	-4581	-2993	-6169	1588	1588	4.35E-06	4.35E-06	-35
7276	1950	219	5976.241	0.013	219.1721	219.5	-4.02E-06	0.00E+00	-8.03E-06	-1466	0	-2932	1466	1466	4.02E-06	4.02E-06	-100
7276	1950	220	5976.217	0.011	220.1728	220.5	-6.69E-07	1.42E-06	-2.76E-06	-244	519	-1008	763	763	2.09E-06	2.09E-06	-312
7276	1950	222	5976.209	0.014	222.1741	222.5	-4.02E-06	1.00E-06	-9.04E-06	-1466	366	-3298	1832	1832	5.02E-06	5.02E-06	-125
7276	1950	223	5976.185	0.016	223.1748	223.5	-1.05E-05	-5.69E-06	-1.54E-05	-3848	-2077	-5619	1771	1771	4.85E-06	4.85E-06	-46
7276	1950	224	5976.122	0.013	224.4255	224.5	-7.70E-06	-3.68E-06	-1.17E-05	-2810	-1344	-4275	1466	1466	4.02E-06	4.02E-06	-52
7276	1950	225	5976.076	0.011	225.1762	225.5	1.17E-06	5.02E-06	-2.68E-06	428	1832	-977	1405	1405	3.85E-06	3.85E-06	329
7276	1950	226	5976.083	0.012	226.1769	226.5	-2.51E-06	1.84E-06	-6.86E-06	-916	672	-2504	1588	1588	4.35E-06	4.35E-06	-173
7276	1950	227	5976.068	0.014	227.1776	227.5	-7.70E-06	-3.51E-06	-1.19E-05	-2810	-1283	-4336	1527	1527	4.18E-06	4.18E-06	-54
7276	1950	228	5976.022	0.011	228.1783	228.5	-1.00E-06	2.84E-06	-4.85E-06	-366	1038	-1771	1405	1405	3.85E-06	3.85E-06	-383
7276	1950	229	5976.016	0.012	229.179	229.5	-1.00E-05	-6.36E-06	-1.37E-05	-3665	-2321	-5008	1344	1344	3.68E-06	3.68E-06	-37
7276	1950	230	5975.956	0.01	230.1797	230.5	-5.86E-06	-2.68E-06	-9.04E-06	-2138	-977	-3298	1160	1160	3.18E-06	3.18E-06	-54
7276	1950	231	5975.921	0.009	231.1804	231.5	1.17E-06	5.69E-06	-3.35E-06	428	2077	-1222	1649	1649	4.52E-06	4.52E-06	386
7276	1950	232	5975.928	0.018	232.1811	232.5	-7.20E-06	-2.01E-06	-1.24E-05	-2626	-733	-4520	1893	1893	5.19E-06	5.19E-06	-72
7276	1950	233	5975.885	0.013	233.1818	233.5	-1.36E-05	-9.54E-06	-1.76E-05	-4947	-3482	-6413	1466	1466	4.02E-06	4.02E-06	-30
7276	1950	234	5975.804	0.011	234.1825	234.5	-3.68E-06	1.67E-07	-7.53E-06	-1344	61	-2749	1405	1405	3.85E-06	3.85E-06	-105
7276	1950	235	5975.782	0.012	235.1832	235.5	-4.02E-06	-1.11E-16	-8.03E-06	-1466	0	-2932	1466	1466	4.02E-06	4.02E-06	-100
7276	1950	236	5975.758	0.012	236.1839	236.5	-7.20E-06	-3.18E-06	-1.12E-05	-2626	-1161	-4092	1466	1466	4.02E-06	4.02E-06	-56
7276	1950	237	5975.715	0.012	237.1846	237.5	-8.37E-07	3.18E-06	-4.85E-06	-305	1161	-1771	1466	1466	4.02E-06	4.02E-06	-480
7276	1950	238	5975.71	0.012	238.1853	238.5	-8.53E-06	-4.18E-06	-1.29E-05	-3115	-1527	-4703	1588	1588	4.35E-06	4.35E-06	-51
7276	1950	239	5975.659	0.014	239.1859	239.5	-5.19E-06	-1.17E-06	-9.20E-06	-1894	-428	-3359	1466	1466	4.02E-06	4.02E-06	-77
7276	1950	240	5975.628	0.01	240.1866	240.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1951	1956	142	17134.961	0.012	142.1825	142.5	-1.40E-06	-5.84E-08	-2.74E-06	-511	-21	-1001	490	490	1.34E-06	1.34E-06	-96
1951	1956	143	17134.937	0.011	143.1832	143.5	-1.55E-06	-1.43E-06	-1.67E-06	-566	-522	-611	44	44	1.22E-07	1.22E-07	-8
1951	1956	155	17134.618	0.014	155.17	155.5	-1.63E-06	0.00E+00	-3.27E-06	-596	0	-1193	596	596	1.63E-06	1.63E-06	-100
1951	1956	156	17134.59	0.014	156.1707	156.5	-1.46E-06	2.33E-07	-3.15E-06	-533	85	-1150	618	618	1.69E-06	1.69E-06	-116
1951	1956	157	17134.565	0.015	157.1714	157.5	-1.58E-06	1.75E-07	-3.33E-06	-575	64	-1214	639	639	1.75E-06	1.75E-06	-111
1951	1956	158	17134.538	0.015	158.1721	158.5	-1.46E-06	2.33E-07	-3.15E-06	-533	85	-1150	618	618	1.69E-06	1.69E-06	-116
1951	1956	159	17134.513	0.014	159.1728	159.5	-1.52E-06	1.17E-07	-3.15E-06	-554	43	-1150	596	596	1.63E-06	1.63E-06	-108
1951	1956	160	17134.487	0.014	160.1734	160.5	-1.58E-06	2.33E-07	-3.38E-06	-575	85	-1236	660	660	1.81E-06	1.81E-06	-115
1951	1956	161	17134.46	0.017	161.1741	161.5	-1.52E-06	4.09E-07	-3.44E-06	-554	149	-1257	703	703	1.93E-06	1.93E-06	-127
1951	1956	162	17134.434	0.016	162.1748	162.5	-1.28E-06	5.25E-07	-3.09E-06	-469	192	-1129	660	660	1.81E-06	1.81E-06	-141
1951	1956	163	17134.412	0.015	163.1755	163.5	-1.46E-06	2.92E-07	-3.21E-06	-533	107	-1172	639	639	1.75E-06	1.75E-06	-120
1951	1956	164	17134.387	0.015	164.1762	164.5	-1.23E-06	5.25E-07	-2.98E-06	-447	192	-1086	639	639	1.75E-06	1.75E-06	-143
1951	1956	165	17134.366	0.015	165.1769	165.5	-1.34E-06	4.09E-07	-3.09E-06	-490	149	-1129	639	639	1.75E-06	1.75E-06	-130
1951	1956	166	17134.343	0.015	166.1776	166.5	-1.17E-06	4.67E-07	-2.80E-06	-426	170	-1023	596	596	1.63E-06	1.63E-06	-140
1951	1956	167	17134.323	0.013	167.1783	167.5	-1.40E-06	1.75E-07	-2.98E-06	-511	64	-1086	575	575	1.58E-06	1.58E-06	-112
1951	1956	168	17134.299	0.014	168.179	168.5	-8.75E-07	8.17E-07	-2.57E-06	-320	298	-937	618	618	1.69E-06	1.69E-06	-193
1951	1956	169	17134.284	0.015	169.1797	169.5	-1.46E-06	2.33E-07	-3.15E-06	-533	85	-1150	618	618	1.69E-06	1.69E-06	-116
1951	1956	170	17134.259	0.014	170.1804	170.5	-1.23E-06	3.50E-07	-2.80E-06	-447	128	-1023	575	575	1.58E-06	1.58E-06	-129
1951	1956	171	17134.238	0.013	171.1811	171.5	-1.17E-06	4.67E-07	-2.80E-06	-426	170	-1023	596	596	1.63E-06	1.63E-06	-140
1951	1956	172	17134.218	0.015	172.1818	172.5	-1.69E-06	1.17E-07	-3.50E-06	-618	43	-1278	660	660	1.81E-06	1.81E-06	-107
1951	1956	173	17134.189	0.016	173.1825	173.5	-1.11E-06	7.00E-07	-2.92E-06	-405	256	-1065	660	660	1.81E-06	1.81E-06	-163
1951	1956	174	17134.17	0.015	174.1832	174.5	1.11E-06	2.92E-06	-7.00E-07	405	1065	-256	660	660	1.81E-06	1.81E-06	163
1951	1956	175	17134.189	0.016	175.1839	175.5	4.73E-06	6.54E-06	2.92E-06	1725	2386	1065	660	660	1.81E-06	1.81E-06	38
1951	1956	176	17134.27	0.015	176.1846	176.5	7.24E-06	9.10E-06	5.37E-06	2641	3323	1960	682	682	1.87E-06	1.87E-06	26
1951	1956	177	17134.394	0.017	177.1853	177.5	6.95E-06	8.75E-06	5.14E-06	2535	3195	1875	660	660	1.81E-06	1.81E-06	26
1951	1956	178	17134.513	0.014	178.1859	178.5	5.02E-06	6.71E-06	3.33E-06	1832	2450	1214	618	618	1.69E-06	1.69E-06	34
1951	1956	179	17134.599	0.015	179.1866	179.5	5.31E-06	6.94E-06	3.68E-06	1938	2535	1342	596	596	1.63E-06	1.63E-06	31
1951	1956	180	17134.69	0.013	180.1873	180.5	-1.05E-06	4.67E-07	-2.57E-06	-383	170	-937	554	554	1.52E-06	1.52E-06	-144
1951	1956	181	17134.672	0.013	181.188	181.5	-2.92E-07	1.17E-06	-1.75E-06	-107	426	-639	533	533	1.46E-06	1.46E-06	-500
1951	1956	182	17134.667	0.012	182.1679	182.5	1.23E-06	2.68E-06	-2.33E-07	447	980	-85	533	533	1.46E-06	1.46E-06	119
1951	1956	183	17134.688	0.013	183.1686	183.5	9.92E-07	2.57E-06	-5.84E-07	362	937	-213	575	575	1.58E-06	1.58E-06	159
1951	1956	184	17134.705	0.014	184.1693	184.5	-4.67E-07	1.17E-06	-2.10E-06	-170	426	-767	596	596	1.63E-06	1.63E-06	-350
1951	1956	185	17134.697	0.014	185.17	185.5	-5.84E-07	1.11E-06	-2.28E-06	-213	405	-831	618	618	1.69E-06	1.69E-06	-290
1951	1956	186	17134.687	0.015	186.1707	186.5	-1.63E-06	-2.22E-16	-3.27E-06	-596	0	-1193	596	596	1.63E-06	1.63E-06	-100
1951	1956	187	17134.659	0.013	187.1714	187.5	-2.33E-07	1.28E-06	-1.75E-06	-85	469	-639	554	554	1.52E-06	1.52E-06	-650
1951	1956	188	17134.655	0.013	188.1721	188.5	1.98E-06	3.50E-06	4.67E-07	724	1278	170	554	554	1.52E-06	1.52E-06	76
1951	1956	189	17134.689	0.013	189.1728	189.5	4.55E-06	6.13E-06	2.98E-06	1662	2237	1086	575	575	1.58E-06	1.58E-06	35
1951	1956	190	17134.767	0.014	190.1734	190.5	2.48E-05	2.66E-05	2.31E-05	9053	9692	8414	639	639	1.75E-06	1.75E-06	7
1951	1956	191	17135.192	0.016	191.1741	191.5	2.92E-06	4.90E-06	9.34E-07	1065	1789	341	724	724	1.98E-06	1.98E-06	68
1951	1956	192	17135.242	0.018	192.1748	192.5	1.17E-06	3.03E-06	-7.00E-07	426	1108	-256	682	682	1.87E-06	1.87E-06	160
1951	1956	193	17135.262	0.014	193.1755	193.5	-1.05E-06	5.84E-07	-2.68E-06	-383	213	-980	596	596	1.63E-06	1.63E-06	-156
1951	1956	194	17135.244	0.014	194.1762	194.5	-1.75E-06	-1.17E-07	-3.38E-06	-639	-43	-1235	596	596	1.63E-06	1.63E-06	-93
1951	1956	195	17135.214	0.014	195.1769	195.5	-2.63E-06	-9.34E-07	-4.32E-06	-959	-341	-1576	618	618	1.69E-06	1.69E-06	-64
1951	1956	196	17135.169	0.015	196.1776	196.5	-1.46E-06	1.75E-07	-3.09E-06	-533	64	-1129	596	596	1.63E-06	1.63E-06	-112
1951	1956	197	17135.144	0.013	197.1783	197.5	-2.16E-06	-7.59E-07	-3.56E-06	-788	-277	-1299	511	511	1.40E-06	1.40E-06	-65
1951	1956	198	17135.107	0.011	198.179	198.5	5.78E-06	7.06E-06	4.49E-06	2109	2577	1640	469	469	1.28E-06	1.28E-06	22
1951	1956	199	17135.206	0.011	199.1797	199.5	-1.11E-06	2.33E-07	-2.45E-06	-405	85	-895	490	490	1.34E-06	1.34E-06	-121
1951	1956	200	17135.187	0.012	200.1804	200.5	8.17E-07	2.33E-06	-7.00E-07	298	852	-256	554	554	1.52E-06	1.52E-06	186
1951	1956	201	17135.201	0.014	201.1811	201.5	-1.75E-06	-2.92E-07	-3.21E-06	-639	-107	-1172	533	533	1.46E-06	1.46E-06	-83
1951	1956	202	17135.171	0.011	202.1818	202.5	-5.25E-07	7.00E-07	-1.75E-06	-192	256	-639	447	447	1.23E-06	1.23E-06	-233
1951	1956	203	17135.162	0.01	203.1825	203.5	4.67E-07	1.75E-06	-8.17E-07	170	639	-298	469	469	1.28E-06	1.28E-06	275
1951	1956	204	17135.17	0.012	204.1832	204.5	2.39E-06	3.74E-06	1.05E-06	873	1363	383	490	490	1.34E-06	1.34E-06	56
1951	1956	205	17135.211	0.011	205.1839	205.5	8.75E-07	2.16E-06	-4.09E-07	320	788	-149	469	469	1.28E-06	1.28E-06	147
1951	1956	206	17135.226	0.011	206.1846	206.5	1.17E-07	1.46E-06	-1.23E-06	43	533	-447	490	490	1.34E-06	1.34E-06	1150
1951	1956	207	17135.228	0.012	207.1853	207.5	-3.68E-06	-2.10E-06	-5.25E-06	-1342	-767	-1917	575	575	1.58E-06	1.58E-06	-43
1951	1956	209	17135.165	0.015	209.1866	209.5	-1.17E-06	5.84E-07	-2.92E-06	-426	213	-1065	639	639	1.75E-06	1.75E-06	-150
1951	1956	210	17135.145	0.015	210.1873	210.5	-2.74E-06	-1.28E-06	-4.20E-06	-1001	-469	-1534	533	533	1.46E-06	1.46E-06	-53
1951	1956	211	17135.098	0.01	211.188	211.5	-7.59E-07	4.67E-07	-1.98E-06	-277	170	-724	447	447	1.23E-06	1.23E-06	-162
1951	1956	212	17135.085	0.011	212.1887	212.5	-2.33E-06	-1.72E-06	-2.95E-06	-852	-628	-1076	224	224	6.13E-07	6.13E-07	-26
1951	1956	214	17135.005	0.01	214.1686	214.5	-2.13E-06	-1.52E-06	-2.74E-06	-778	-554	-1001	224	224	6.13E-07	6.13E-07	-29
1951	1956	216	17134.932	0.011	216.17	216.5	-2.68E-06	-1.28E-06	-4.09E-06	-980	-469	-1491	511	511	1.40E-06	1.40E-06	-52
1951	1956	217	17134.886	0.013	217.1707	217.5	-9.34E-07	7.59E-07	-2.63E-06	-341	277	-959	618	618	1.69E-06	1.69E-06	-181
1951	1956	218	17134.87	0.016	218.1714	218.5	3.50E-07	1.87E-06	-1.17E-06	128	682	-426	554	554	1.52E-06	1.52E-06	433
1951	1956	219	17134.876	0.01	219.1721	219.5	1.11E-06	2.28E-06	-5.84E-08	405	831	-21	426	426	1.17E-06	1.17E-06	105
1951	1956	220	17134.895	0.01	220.1728	220.5	1.46E-06	2.36E-06	5.54E-07	533	863	202	330	330	9.05E-07	9.05E-07	62
1951	1956	222	17134.945	0.021	222.1741	222.5	2.33E-06	4.96E-06	-2.92E-07	852	1811	-107	959	959	2.63E-06	2.63E-06	112
1951	1956	223	17134.985	0.024	223.1748	223.5	5.25E-06	7.47E-06	3.03E-06	1917	2727	1108	809	809	2.22E-06	2.22E-06	42
1951	1956	224	17135.075	0.014	224.4255	224.5	2.86E-06	4.32E-06	1.40E-06	1044	1576	511	533	533	1.46E-06	1.46E-06	51
1951	1956	225	17135.124	0.011	225.1762	225.5	9.34E-07	2.45E-06	-5.84E-07	341	895	-213	554	554	1.52E-06	1.52E-06	162
1951	1956	226	17135.14	0.015	226.1769	226.5	-2.04E-06	-3.50E-07	-3.74E-06	-746	-128	-1363	618	618	1.69E-06	1.69E-06	-83
1951	1956	227	17135.105	0.014	227.1776	227.5	-1.40E-06	5.84E-08	-2.86E-06	-511	21	-1044	533	533	1.46E-06	1.46E-06	-104
1951	1956	228	17135.081	0.011	228.1783	228.5	-2.10E-06	-7.59E-07	-3.44E-06	-767	-277	-1257	490	490	1.34E-06	1.34E-06	-64
1951	1956	229	17135.045	0.012	229.179	229.5	7.59E-07	2.04E-06	-5.25E-07	277	746	-192	469	469	1.28E-06	1.28E-06	169
1951	1956	230	17135.058	0.01	230.1797	230.5	-2.86E-06	-1.69E-06	-4.03E-06	-1044	-618	-1470	426	426	1.17E-06	1.17E-06	-41
1951	1956	231	17135.009	0.01	231.1804	231.5	-1.17E-07	1.58E-06	-1.81E-06	-43	575	-660	618	618	1.69E-06	1.69E-06	-1450
1951	1956	232	17135.007	0.019	232.1811	232.5	2.10E-06	3.85E-06	3.50E-07	767	1406	128	639	639	1.75E-06	1.75E-06	83
1951	1956	233	17135.043	0.011	233.1818	233.5	-3.50E-07	9.34E-07	-1.63E-06	-128	341	-596	469	469	1.28E-06	1.28E-06	-367
1951	1956	234	17135.037	0.011	234.1825	234.5	3.50E-07	1.93E-06	-1.23E-06	128	703	-447	575	575	1.58E-06	1.58E-06	450
1951	1956	235	17135.043	0.016	235.1832	235.5	-9.34E-07	5.84E-07	-2.45E-06	-341	213	-895	554	554	1.52E-06	1.52E-06	-163
1951	1956	236	17135.027	0.01	236.1839	236.5	1.63E-06	2.92E-06	3.50E-07	596	1065	128	469	469	1.28E-06	1.28E-06	79
1951	1956	237	17135.055	0.012	237.1846	237.5	-5.84E-07	9.92E-07	-2.16E-06	-213	362	-788	575	575	1.58E-06	1.58E-06	-270
1951	1956	238	17135.045	0.015	238.1853	238.5	4.84E-06	6.83E-06	2.86E-06	1768	2492	1044	724	724	1.98E-06	1.98E-06	41
1951	1956	239	17135.128	0.019	239.1859	239.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1951	1957	142	7575.41	0.014	142.1825	142.5	-1.45E-06	1.98E-06	-4.88E-06	-530	723	-1783	1253	1253	3.43E-06	3.43E-06	-236
1951	1957	143	7575.399	0.012	143.1832	143.5	-1.50E-06	-1.22E-06	-1.77E-06	-546	-446	-646	100	100	2.75E-07	2.75E-07	-18
1951	1957	155	7575.263	0.013	155.17	155.5	-1.32E-06	2.24E-06	-4.88E-06	-482	819	-1783	1301	1301	3.56E-06	3.56E-06	-270
1951	1957	156	7575.253	0.014	156.1707	156.5	-1.32E-06	2.64E-06	-5.28E-06	-482	964	-1927	1445	1445	3.96E-06	3.96E-06	-300
1951	1957	157	7575.243	0.016	157.1714	157.5	-1.19E-06	2.90E-06	-5.28E-06	-434	1060	-1927	1494	1494	4.09E-06	4.09E-06	-344
1951	1957	158	7575.234	0.015	158.1721	158.5	-1.45E-06	2.51E-06	-5.41E-06	-530	915	-1976	1446	1446	3.96E-06	3.96E-06	-273
1951	1957	159	7575.223	0.015	159.1728	159.5	-1.06E-06	2.90E-06	-5.02E-06	-385	1060	-1831	1446	1446	3.96E-06	3.96E-06	-375
1951	1957	160	7575.215	0.015	160.1734	160.5	-1.19E-06	2.90E-06	-5.28E-06	-434	1060	-1927	1494	1494	4.09E-06	4.09E-06	-344
1951	1957	161	7575.206	0.016	161.1741	161.5	-1.85E-06	2.51E-06	-6.20E-06	-675	915	-2265	1590	1590	4.36E-06	4.36E-06	-236
1951	1957	162	7575.192	0.017	162.1748	162.5	-5.28E-07	3.70E-06	-4.75E-06	-193	1349	-1735	1542	1542	4.22E-06	4.22E-06	-800
1951	1957	163	7575.188	0.015	163.1755	163.5	-1.32E-07	3.83E-06	-4.09E-06	-48	1397	-1494	1446	1446	3.96E-06	3.96E-06	-3000
1951	1957	164	7575.187	0.015	164.1762	164.5	-3.96E-07	3.70E-06	-4.49E-06	-145	1349	-1638	1494	1494	4.09E-06	4.09E-06	-1033
1951	1957	165	7575.184	0.016	165.1769	165.5	-6.60E-07	3.43E-06	-4.75E-06	-241	1253	-1735	1494	1494	4.09E-06	4.09E-06	-620
1951	1957	166	7575.179	0.015	166.1776	166.5	2.64E-07	3.96E-06	-3.43E-06	96	1446	-1253	1349	1349	3.70E-06	3.70E-06	1400
1951	1957	167	7575.181	0.013	167.1783	167.5	-2.64E-07	3.30E-06	-3.83E-06	-96	1205	-1397	1301	1301	3.56E-06	3.56E-06	-1350
1951	1957	168	7575.179	0.014	168.179	168.5	-1.06E-06	3.04E-06	-5.15E-06	-385	1108	-1879	1494	1494	4.09E-06	4.09E-06	-387
1951	1957	169	7575.171	0.017	169.1797	169.5	1.32E-06	5.54E-06	-2.90E-06	482	2024	-1060	1542	1542	4.22E-06	4.22E-06	320
1951	1957	170	7575.181	0.015	170.1804	170.5	-9.24E-07	2.90E-06	-4.75E-06	-337	1060	-1735	1397	1397	3.83E-06	3.83E-06	-414
1951	1957	171	7575.174	0.014	171.1811	171.5	-1.32E-06	2.51E-06	-5.15E-06	-482	915	-1879	1397	1397	3.83E-06	3.83E-06	-290
1951	1957	172	7575.164	0.015	172.1818	172.5	1.58E-06	5.68E-06	-2.51E-06	578	2072	-915	1494	1494	4.09E-06	4.09E-06	258
1951	1957	173	7575.176	0.016	173.1825	173.5	3.30E-06	7.52E-06	-9.24E-07	1205	2746	-337	1542	1542	4.22E-06	4.22E-06	128
1951	1957	174	7575.201	0.016	174.1832	174.5	1.45E-06	5.68E-06	-2.77E-06	530	2072	-1012	1542	1542	4.22E-06	4.22E-06	291
1951	1957	175	7575.212	0.016	175.1839	175.5	-4.49E-06	-5.28E-07	-8.45E-06	-1638	-193	-3084	1446	1446	3.96E-06	3.96E-06	-88
1951	1957	176	7575.178	0.014	176.1846	176.5	3.70E-06	7.66E-06	-2.64E-07	1349	2795	-96	1446	1446	3.96E-06	3.96E-06	107
1951	1957	177	7575.206	0.016	177.1853	177.5	1.21E-05	1.61E-05	8.18E-06	4433	5878	2987	1445	1445	3.96E-06	3.96E-06	33
1951	1957	178	7575.298	0.014	178.1859	178.5	1.58E-06	5.28E-06	-2.11E-06	578	1927	-771	1349	1349	3.70E-06	3.70E-06	233
1951	1957	179	7575.31	0.014	179.1866	179.5	0.00E+00	3.70E-06	-3.70E-06	0	1349	-1349	1349	1349	3.70E-06	3.70E-06	0
1951	1957	180	7575.31	0.014	180.1873	180.5	-1.45E-06	1.98E-06	-4.88E-06	-530	723	-1783	1253	1253	3.43E-06	3.43E-06	-236
1951	1957	181	7575.299	0.012	181.188	181.5	5.94E-06	9.11E-06	2.77E-06	2168	3325	1012	1156	1156	3.17E-06	3.17E-06	53
1951	1957	182	7575.344	0.012	182.1679	182.5	-4.22E-06	-9.24E-07	-7.52E-06	-1542	-337	-2746	1205	1205	3.30E-06	3.30E-06	-78
1951	1957	183	7575.312	0.013	183.1686	183.5	-1.19E-06	2.24E-06	-4.62E-06	-434	819	-1686	1253	1253	3.43E-06	3.43E-06	-289
1951	1957	184	7575.303	0.013	184.1693	184.5	-6.34E-06	-2.64E-06	-1.00E-05	-2313	-964	-3662	1349	1349	3.70E-06	3.70E-06	-58
1951	1957	185	7575.255	0.015	185.17	185.5	-5.81E-06	-2.11E-06	-9.50E-06	-2120	-771	-3469	1349	1349	3.70E-06	3.70E-06	-64
1951	1957	186	7575.211	0.013	186.1707	186.5	-4.88E-06	-1.58E-06	-8.18E-06	-1783	-578	-2987	1205	1205	3.30E-06	3.30E-06	-68
1951	1957	187	7575.174	0.012	187.1714	187.5	-3.70E-06	-2.64E-07	-7.13E-06	-1349	-96	-2602	1253	1253	3.43E-06	3.43E-06	-93
1951	1957	188	7575.146	0.014	188.1721	188.5	-2.77E-06	1.06E-06	-6.60E-06	-1012	385	-2409	1397	1397	3.83E-06	3.83E-06	-138
1951	1957	189	7575.125	0.015	189.1728	189.5	-7.39E-06	-3.43E-06	-1.14E-05	-2698	-1253	-4144	1446	1446	3.96E-06	3.96E-06	-54
1951	1957	190	7575.069	0.015	190.1734	190.5	-2.44E-05	-2.03E-05	-2.85E-05	-8914	-7420	-10408	1494	1494	4.09E-06	4.09E-06	-17
1951	1957	191	7574.884	0.016	191.1741	191.5	2.03E-05	2.50E-05	1.57E-05	7421	9107	5734	1686	1686	4.62E-06	4.62E-06	23
1951	1957	192	7575.038	0.019	192.1748	192.5	5.41E-06	9.90E-06	9.24E-07	1976	3614	337	1638	1638	4.49E-06	4.49E-06	83
1951	1957	193	7575.079	0.015	193.1755	193.5	1.19E-06	5.02E-06	-2.64E-06	434	1831	-964	1397	1397	3.83E-06	3.83E-06	322
1951	1957	194	7575.088	0.014	194.1762	194.5	-1.06E-06	3.04E-06	-5.15E-06	-385	1108	-1879	1494	1494	4.09E-06	4.09E-06	-387
1951	1957	195	7575.08	0.017	195.1769	195.5	-2.64E-06	1.72E-06	-7.00E-06	-964	626	-2554	1590	1590	4.36E-06	4.36E-06	-165
1951	1957	196	7575.06	0.016	196.1776	196.5	-4.22E-06	-1.32E-07	-8.32E-06	-1542	-48	-3036	1494	1494	4.09E-06	4.09E-06	-97
1951	1957	197	7575.028	0.015	197.1783	197.5	-2.64E-06	1.32E-06	-6.60E-06	-964	482	-2409	1446	1446	3.96E-06	3.96E-06	-150
1951	1957	198	7575.008	0.015	198.179	198.5	-1.11E-05	-7.13E-06	-1.50E-05	-4048	-2602	-5493	1446	1446	3.96E-06	3.96E-06	-36
1951	1957	199	7574.924	0.015	199.1797	199.5	-2.38E-06	1.19E-06	-5.94E-06	-867	434	-2168	1301	1301	3.56E-06	3.56E-06	-150
1951	1957	200	7574.906	0.012	200.1804	200.5	-1.98E-06	1.45E-06	-5.41E-06	-723	530	-1976	1253	1253	3.43E-06	3.43E-06	-173
1951	1957	201	7574.891	0.014	201.1811	201.5	6.60E-07	3.96E-06	-2.64E-06	241	1446	-964	1205	1205	3.30E-06	3.30E-06	500
1951	1957	202	7574.896	0.011	202.1818	202.5	-5.28E-07	2.38E-06	-3.43E-06	-193	867	-1253	1060	1060	2.90E-06	2.90E-06	-550
1951	1957	203	7574.892	0.011	203.1825	203.5	6.60E-07	3.70E-06	-2.38E-06	241	1349	-867	1108	1108	3.04E-06	3.04E-06	460
1951	1957	204	7574.897	0.012	204.1832	204.5	-2.24E-06	9.24E-07	-5.41E-06	-819	337	-1976	1156	1156	3.17E-06	3.17E-06	-141
1951	1957	205	7574.88	0.012	205.1839	205.5	3.96E-07	3.56E-06	-2.77E-06	145	1301	-1012	1156	1156	3.17E-06	3.17E-06	800
1951	1957	206	7574.883	0.012	206.1846	206.5	-1.85E-06	1.32E-06	-5.02E-06	-675	482	-1831	1156	1156	3.17E-06	3.17E-06	-171
1951	1957	207	7574.869	0.012	207.1853	207.5	9.90E-07	2.90E-06	-9.24E-07	361	1060	-337	699	699	1.91E-06	1.91E-06	193
1951	1957	209	7574.884	0.017	209.1866	209.5	-6.60E-07	3.43E-06	-4.75E-06	-241	1253	-1735	1494	1494	4.09E-06	4.09E-06	-620
1951	1957	210	7574.879	0.014	210.1873	210.5	6.60E-07	3.83E-06	-2.51E-06	241	1397	-916	1156	1156	3.17E-06	3.17E-06	480
1951	1957	211	7574.884	0.01	211.188	211.5	2.51E-06	5.28E-06	-2.64E-07	916	1927	-96	1012	1012	2.77E-06	2.77E-06	111
1951	1957	212	7574.903	0.011	212.1887	212.5	6.60E-07	3.70E-06	-2.38E-06	241	1349	-867	1108	1108	3.04E-06	3.04E-06	460
1951	1957	213	7574.908	0.012	213.1679	213.5	7.92E-07	3.83E-06	-2.24E-06	289	1397	-819	1108	1108	3.04E-06	3.04E-06	383
1951	1957	214	7574.914	0.011	214.1686	214.5	8.58E-06	1.20E-05	5.15E-06	3132	4385	1879	1253	1253	3.43E-06	3.43E-06	40
1951	1957	216	7574.979	0.015	216.17	216.5	6.73E-06	1.15E-05	1.98E-06	2457	4192	723	1735	1735	4.75E-06	4.75E-06	71
1951	1957	217	7575.03	0.021	217.1707	217.5	-1.98E-06	3.17E-06	-7.13E-06	-723	1156	-2602	1879	1879	5.15E-06	5.15E-06	-260
1951	1957	218	7575.015	0.018	218.1714	218.5	-3.96E-07	3.30E-06	-4.09E-06	-145	1205	-1494	1349	1349	3.70E-06	3.70E-06	-933
1951	1957	219	7575.012	0.01	219.1721	219.5	-1.58E-06	1.85E-06	-5.02E-06	-578	675	-1831	1253	1253	3.43E-06	3.43E-06	-217
1951	1957	220	7575	0.016	220.1728	220.5	5.31E-06	6.47E-06	4.16E-06	1939	2361	1518	422	422	1.16E-06	1.16E-06	22
1951	1957	224	7575.161	0.019	224.4255	224.5	1.32E-07	4.09E-06	-3.83E-06	48	1494	-1397	1446	1446	3.96E-06	3.96E-06	3000
1951	1957	225	7575.162	0.011	225.1762	225.5	8.32E-06	1.16E-05	5.02E-06	3036	4240	1831	1205	1205	3.30E-06	3.30E-06	40
1951	1957	226	7575.225	0.014	226.1769	226.5	5.68E-06	9.64E-06	1.72E-06	2072	3517	626	1445	1445	3.96E-06	3.96E-06	70
1951	1957	227	7575.268	0.016	227.1776	227.5	8.32E-06	1.17E-05	4.88E-06	3036	4288	1783	1253	1253	3.43E-06	3.43E-06	41
1951	1957	228	7575.331	0.01	228.1783	228.5	1.58E-05	1.89E-05	1.28E-05	5782	6890	4674	1108	1108	3.04E-06	3.04E-06	19
1951	1957	229	7575.451	0.013	229.179	229.5	1.20E-05	1.52E-05	8.84E-06	4385	5541	3228	1156	1156	3.17E-06	3.17E-06	26
1951	1957	230	7575.542	0.011	230.1797	230.5	1.44E-05	1.73E-05	1.15E-05	5252	6312	4192	1060	1060	2.90E-06	2.90E-06	20
1951	1957	231	7575.651	0.011	231.1804	231.5	1.89E-05	2.32E-05	1.45E-05	6890	8480	5300	1590	1590	4.36E-06	4.36E-06	23
1951	1957	232	7575.794	0.022	232.1811	232.5	1.78E-05	2.20E-05	1.36E-05	6504	8046	4962	1542	1542	4.22E-06	4.22E-06	24
1951	1957	233	7575.929	0.01	233.1818	233.5	1.74E-05	2.01E-05	1.48E-05	6360	7323	5396	964	964	2.64E-06	2.64E-06	15
1951	1957	234	7576.061	0.01	234.1825	234.5	1.02E-05	1.37E-05	6.60E-06	3710	5010	2409	1301	1301	3.56E-06	3.56E-06	35
1951	1957	235	7576.138	0.017	235.1832	235.5	7.26E-06	1.08E-05	3.70E-06	2650	3951	1349	1301	1301	3.56E-06	3.56E-06	49
1951	1957	236	7576.193	0.01	236.1839	236.5	1.06E-05	1.35E-05	7.66E-06	3854	4914	2794	1060	1060	2.90E-06	2.90E-06	27
1951	1957	237	7576.273	0.012	237.1846	237.5	2.77E-05	3.14E-05	2.40E-05	10117	11466	8768	1349	1349	3.70E-06	3.70E-06	13
1951	1957	238	7576.483	0.016	238.1853	238.5	4.59E-05	4.80E-05	4.38E-05	16740	17511	15969	771	771	2.11E-06	2.11E-06	5
1951	1957	240	7577.178	0.016	240.1866	240.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1951	1957	142	7575.41	0.014	142.1825	142.5	-1.45E-06	1.98E-06	-4.88E-06	-530	723	-1783	1253	1253	3.43E-06	3.43E-06	-236
1951	1957	143	7575.399	0.012	143.1832	143.5	-1.50E-06	-1.22E-06	-1.77E-06	-546	-446	-646	100	100	2.75E-07	2.75E-07	-18
1951	1957	155	7575.263	0.013	155.17	155.5	-1.32E-06	2.24E-06	-4.88E-06	-482	819	-1783	1301	1301	3.56E-06	3.56E-06	-270
1951	1957	156	7575.253	0.014	156.1707	156.5	-1.32E-06	2.64E-06	-5.28E-06	-482	964	-1927	1445	1445	3.96E-06	3.96E-06	-300
1951	1957	157	7575.243	0.016	157.1714	157.5	-1.19E-06	2.90E-06	-5.28E-06	-434	1060	-1927	1494	1494	4.09E-06	4.09E-06	-344
1951	1957	158	7575.234	0.015	158.1721	158.5	-1.45E-06	2.51E-06	-5.41E-06	-530	915	-1976	1446	1446	3.96E-06	3.96E-06	-273
1951	1957	159	7575.223	0.015	159.1728	159.5	-1.06E-06	2.90E-06	-5.02E-06	-385	1060	-1831	1446	1446	3.96E-06	3.96E-06	-375
1951	1957	160	7575.215	0.015	160.1734	160.5	-1.19E-06	2.90E-06	-5.28E-06	-434	1060	-1927	1494	1494	4.09E-06	4.09E-06	-344
1951	1957	161	7575.206	0.016	161.1741	161.5	-1.85E-06	2.51E-06	-6.20E-06	-675	915	-2265	1590	1590	4.36E-06	4.36E-06	-236
1951	1957	162	7575.192	0.017	162.1748	162.5	-5.28E-07	3.70E-06	-4.75E-06	-193	1349	-1735	1542	1542	4.22E-06	4.22E-06	-800
1951	1957	163	7575.188	0.015	163.1755	163.5	-1.32E-07	3.83E-06	-4.09E-06	-48	1397	-1494	1446	1446	3.96E-06	3.96E-06	-3000
1951	1957	164	7575.187	0.015	164.1762	164.5	-3.96E-07	3.70E-06	-4.49E-06	-145	1349	-1638	1494	1494	4.09E-06	4.09E-06	-1033
1951	1957	165	7575.184	0.016	165.1769	165.5	-6.60E-07	3.43E-06	-4.75E-06	-241	1253	-1735	1494	1494	4.09E-06	4.09E-06	-620
1951	1957	166	7575.179	0.015	166.1776	166.5	2.64E-07	3.96E-06	-3.43E-06	96	1446	-1253	1349	1349	3.70E-06	3.70E-06	1400
1951	1957	167	7575.181	0.013	167.1783	167.5	-2.64E-07	3.30E-06	-3.83E-06	-96	1205	-1397	1301	1301	3.56E-06	3.56E-06	-1350
1951	1957	168	7575.179	0.014	168.179	168.5	-1.06E-06	3.04E-06	-5.15E-06	-385	1108	-1879	1494	1494	4.09E-06	4.09E-06	-387
1951	1957	169	7575.171	0.017	169.1797	169.5	1.32E-06	5.54E-06	-2.90E-06	482	2024	-1060	1542	1542	4.22E-06	4.22E-06	320
1951	1957	170	7575.181	0.015	170.1804	170.5	-9.24E-07	2.90E-06	-4.75E-06	-337	1060	-1735	1397	1397	3.83E-06	3.83E-06	-414
1951	1957	171	7575.174	0.014	171.1811	171.5	-1.32E-06	2.51E-06	-5.15E-06	-482	915	-1879	1397	1397	3.83E-06	3.83E-06	-290
1951	1957	172	7575.164	0.015	172.1818	172.5	1.58E-06	5.68E-06	-2.51E-06	578	2072	-915	1494	1494	4.09E-06	4.09E-06	258
1951	1957	173	7575.176	0.016	173.1825	173.5	3.30E-06	7.52E-06	-9.24E-07	1205	2746	-337	1542	1542	4.22E-06	4.22E-06	128
1951	1957	174	7575.201	0.016	174.1832	174.5	1.45E-06	5.68E-06	-2.77E-06	530	2072	-1012	1542	1542	4.22E-06	4.22E-06	291
1951	1957	175	7575.212	0.016	175.1839	175.5	-4.49E-06	-5.28E-07	-8.45E-06	-1638	-193	-3084	1446	1446	3.96E-06	3.96E-06	-88
1951	1957	176	7575.178	0.014	176.1846	176.5	3.70E-06	7.66E-06	-2.64E-07	1349	2795	-96	1446	1446	3.96E-06	3.96E-06	107
1951	1957	177	7575.206	0.016	177.1853	177.5	1.21E-05	1.61E-05	8.18E-06	4433	5878	2987	1445	1445	3.96E-06	3.96E-06	33
1951	1957	178	7575.298	0.014	178.1859	178.5	1.58E-06	5.28E-06	-2.11E-06	578	1927	-771	1349	1349	3.70E-06	3.70E-06	233
1951	1957	179	7575.31	0.014	179.1866	179.5	0.00E+00	3.70E-06	-3.70E-06	0	1349	-1349	1349	1349	3.70E-06	3.70E-06	0
1951	1957	180	7575.31	0.014	180.1873	180.5	-1.45E-06	1.98E-06	-4.88E-06	-530	723	-1783	1253	1253	3.43E-06	3.43E-06	-236
1951	1957	181	7575.299	0.012	181.188	181.5	5.94E-06	9.11E-06	2.77E-06	2168	3325	1012	1156	1156	3.17E-06	3.17E-06	53
1951	1957	182	7575.344	0.012	182.1679	182.5	-4.22E-06	-9.24E-07	-7.52E-06	-1542	-337	-2746	1205	1205	3.30E-06	3.30E-06	-78
1951	1957	183	7575.312	0.013	183.1686	183.5	-1.19E-06	2.24E-06	-4.62E-06	-434	819	-1686	1253	1253	3.43E-06	3.43E-06	-289
1951	1957	184	7575.303	0.013	184.1693	184.5	-6.34E-06	-2.64E-06	-1.00E-05	-2313	-964	-3662	1349	1349	3.70E-06	3.70E-06	-58
1951	1957	185	7575.255	0.015	185.17	185.5	-5.81E-06	-2.11E-06	-9.50E-06	-2120	-771	-3469	1349	1349	3.70E-06	3.70E-06	-64
1951	1957	186	7575.211	0.013	186.1707	186.5	-4.88E-06	-1.58E-06	-8.18E-06	-1783	-578	-2987	1205	1205	3.30E-06	3.30E-06	-68
1951	1957	187	7575.174	0.012	187.1714	187.5	-3.70E-06	-2.64E-07	-7.13E-06	-1349	-96	-2602	1253	1253	3.43E-06	3.43E-06	-93
1951	1957	188	7575.146	0.014	188.1721	188.5	-2.77E-06	1.06E-06	-6.60E-06	-1012	385	-2409	1397	1397	3.83E-06	3.83E-06	-138
1951	1957	189	7575.125	0.015	189.1728	189.5	-7.39E-06	-3.43E-06	-1.14E-05	-2698	-1253	-4144	1446	1446	3.96E-06	3.96E-06	-54
1951	1957	190	7575.069	0.015	190.1734	190.5	-2.44E-05	-2.03E-05	-2.85E-05	-8914	-7420	-10408	1494	1494	4.09E-06	4.09E-06	-17
1951	1957	191	7574.884	0.016	191.1741	191.5	2.03E-05	2.50E-05	1.57E-05	7421	9107	5734	1686	1686	4.62E-06	4.62E-06	23
1951	1957	192	7575.038	0.019	192.1748	192.5	5.41E-06	9.90E-06	9.24E-07	1976	3614	337	1638	1638	4.49E-06	4.49E-06	83
1951	1957	193	7575.079	0.015	193.1755	193.5	1.19E-06	5.02E-06	-2.64E-06	434	1831	-964	1397	1397	3.83E-06	3.83E-06	322
1951	1957	194	7575.088	0.014	194.1762	194.5	-1.06E-06	3.04E-06	-5.15E-06	-385	1108	-1879	1494	1494	4.09E-06	4.09E-06	-387
1951	1957	195	7575.08	0.017	195.1769	195.5	-2.64E-06	1.72E-06	-7.00E-06	-964	626	-2554	1590	1590	4.36E-06	4.36E-06	-165
1951	1957	196	7575.06	0.016	196.1776	196.5	-4.22E-06	-1.32E-07	-8.32E-06	-1542	-48	-3036	1494	1494	4.09E-06	4.09E-06	-97
1951	1957	197	7575.028	0.015	197.1783	197.5	-2.64E-06	1.32E-06	-6.60E-06	-964	482	-2409	1446	1446	3.96E-06	3.96E-06	-150
1951	1957	198	7575.008	0.015	198.179	198.5	-1.11E-05	-7.13E-06	-1.50E-05	-4048	-2602	-5493	1446	1446	3.96E-06	3.96E-06	-36
1951	1957	199	7574.924	0.015	199.1797	199.5	-2.38E-06	1.19E-06	-5.94E-06	-867	434	-2168	1301	1301	3.56E-06	3.56E-06	-150
1951	1957	200	7574.906	0.012	200.1804	200.5	-1.98E-06	1.45E-06	-5.41E-06	-723	530	-1976	1253	1253	3.43E-06	3.43E-06	-173
1951	1957	201	7574.891	0.014	201.1811	201.5	6.60E-07	3.96E-06	-2.64E-06	241	1446	-964	1205	1205	3.30E-06	3.30E-06	500
1951	1957	202	7574.896	0.011	202.1818	202.5	-5.28E-07	2.38E-06	-3.43E-06	-193	867	-1253	1060	1060	2.90E-06	2.90E-06	-550
1951	1957	203	7574.892	0.011	203.1825	203.5	6.60E-07	3.70E-06	-2.38E-06	241	1349	-867	1108	1108	3.04E-06	3.04E-06	460
1951	1957	204	7574.897	0.012	204.1832	204.5	-2.24E-06	9.24E-07	-5.41E-06	-819	337	-1976	1156	1156	3.17E-06	3.17E-06	-141
1951	1957	205	7574.88	0.012	205.1839	205.5	3.96E-07	3.56E-06	-2.77E-06	145	1301	-1012	1156	1156	3.17E-06	3.17E-06	800
1951	1957	206	7574.883	0.012	206.1846	206.5	-1.85E-06	1.32E-06	-5.02E-06	-675	482	-1831	1156	1156	3.17E-06	3.17E-06	-171
1951	1957	207	7574.869	0.012	207.1853	207.5	9.90E-07	2.90E-06	-9.24E-07	361	1060	-337	699	699	1.91E-06	1.91E-06	193
1951	1957	209	7574.884	0.017	209.1866	209.5	-6.60E-07	3.43E-06	-4.75E-06	-241	1253	-1735	1494	1494	4.09E-06	4.09E-06	-620
1951	1957	210	7574.879	0.014	210.1873	210.5	6.60E-07	3.83E-06	-2.51E-06	241	1397	-916	1156	1156	3.17E-06	3.17E-06	480
1951	1957	211	7574.884	0.01	211.188	211.5	2.51E-06	5.28E-06	-2.64E-07	916	1927	-96	1012	1012	2.77E-06	2.77E-06	111
1951	1957	212	7574.903	0.011	212.1887	212.5	6.60E-07	3.70E-06	-2.38E-06	241	1349	-867	1108	1108	3.04E-06	3.04E-06	460
1951	1957	213	7574.908	0.012	213.1679	213.5	7.92E-07	3.83E-06	-2.24E-06	289	1397	-819	1108	1108	3.04E-06	3.04E-06	383
1951	1957	214	7574.914	0.011	214.1686	214.5	8.58E-06	1.20E-05	5.15E-06	3132	4385	1879	1253	1253	3.43E-06	3.43E-06	40
1951	1957	216	7574.979	0.015	216.17	216.5	6.73E-06	1.15E-05	1.98E-06	2457	4192	723	1735	1735	4.75E-06	4.75E-06	71
1951	1957	217	7575.03	0.021	217.1707	217.5	-1.98E-06	3.17E-06	-7.13E-06	-723	1156	-2602	1879	1879	5.15E-06	5.15E-06	-260
1951	1957	218	7575.015	0.018	218.1714	218.5	-3.96E-07	3.30E-06	-4.09E-06	-145	1205	-1494	1349	1349	3.70E-06	3.70E-06	-933
1951	1957	219	7575.012	0.01	219.1721	219.5	-1.58E-06	1.85E-06	-5.02E-06	-578	675	-1831	1253	1253	3.43E-06	3.43E-06	-217
1951	1957	220	7575	0.016	220.1728	220.5	5.31E-06	6.47E-06	4.16E-06	1939	2361	1518	422	422	1.16E-06	1.16E-06	22
1951	1957	224	7575.161	0.019	224.4255	224.5	1.32E-07	4.09E-06	-3.83E-06	48	1494	-1397	1446	1446	3.96E-06	3.96E-06	3000
1951	1957	225	7575.162	0.011	225.1762	225.5	8.32E-06	1.16E-05	5.02E-06	3036	4240	1831	1205	1205	3.30E-06	3.30E-06	40
1951	1957	226	7575.225	0.014	226.1769	226.5	5.68E-06	9.64E-06	1.72E-06	2072	3517	626	1445	1445	3.96E-06	3.96E-06	70
1951	1957	227	7575.268	0.016	227.1776	227.5	8.32E-06	1.17E-05	4.88E-06	3036	4288	1783	1253	1253	3.43E-06	3.43E-06	41
1951	1957	228	7575.331	0.01	228.1783	228.5	1.58E-05	1.89E-05	1.28E-05	5782	6890	4674	1108	1108	3.04E-06	3.04E-06	19
1951	1957	229	7575.451	0.013	229.179	229.5	1.20E-05	1.52E-05	8.84E-06	4385	5541	3228	1156	1156	3.17E-06	3.17E-06	26
1951	1957	230	7575.542	0.011	230.1797	230.5	1.44E-05	1.73E-05	1.15E-05	5252	6312	4192	1060	1060	2.90E-06	2.90E-06	20
1951	1957	231	7575.651	0.011	231.1804	231.5	1.89E-05	2.32E-05	1.45E-05	6890	8480	5300	1590	1590	4.36E-06	4.36E-06	23
1951	1957	232	7575.794	0.022	232.1811	232.5	1.78E-05	2.20E-05	1.36E-05	6504	8046	4962	1542	1542	4.22E-06	4.22E-06	24
1951	1957	233	7575.929	0.01	233.1818	233.5	1.74E-05	2.01E-05	1.48E-05	6360	7323	5396	964	964	2.64E-06	2.64E-06	15
1951	1957	234	7576.061	0.01	234.1825	234.5	1.02E-05	1.37E-05	6.60E-06	3710	5010	2409	1301	1301	3.56E-06	3.56E-06	35
1951	1957	235	7576.138	0.017	235.1832	235.5	7.26E-06	1.08E-05	3.70E-06	2650	3951	1349	1301	1301	3.56E-06	3.56E-06	49
1951	1957	236	7576.193	0.01	236.1839	236.5	1.06E-05	1.35E-05	7.66E-06	3854	4914	2794	1060	1060	2.90E-06	2.90E-06	27
1951	1957	237	7576.273	0.012	237.1846	237.5	2.77E-05	3.14E-05	2.40E-05	10117	11466	8768	1349	1349	3.70E-06	3.70E-06	13
1951	1957	238	7576.483	0.016	238.1853	238.5	4.59E-05	4.80E-05	4.38E-05	16740	17511	15969	771	771	2.11E-06	2.11E-06	5
1951	1957	240	7577.178	0.016	240.1866	240.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1951	7234	142	7244.433	0.013	142.1825	142.5	1.05E-05	1.41E-05	6.90E-06	3829	5139	2519	1310	1310	3.59E-06	3.59E-06	34
1951	7234	143	7244.509	0.013	143.1832	143.5	1.04E-05	1.07E-05	1.01E-05	3804	3917	3690	113	113	3.11E-07	3.11E-07	3
1951	7234	155	7245.415	0.014	155.17	155.5	1.05E-05	1.45E-05	6.49E-06	3829	5290	2368	1461	1461	4.00E-06	4.00E-06	38
1951	7234	156	7245.491	0.015	156.1707	156.5	1.04E-05	1.46E-05	6.07E-06	3778	5340	2217	1562	1562	4.28E-06	4.28E-06	41
1951	7234	157	7245.566	0.016	157.1714	157.5	1.02E-05	1.46E-05	5.80E-06	3728	5340	2116	1612	1612	4.42E-06	4.42E-06	43
1951	7234	158	7245.64	0.016	158.1721	158.5	1.08E-05	1.50E-05	6.49E-06	3929	5491	2368	1562	1562	4.28E-06	4.28E-06	40
1951	7234	159	7245.718	0.015	159.1728	159.5	1.06E-05	1.48E-05	6.49E-06	3879	5390	2368	1511	1511	4.14E-06	4.14E-06	39
1951	7234	160	7245.795	0.015	160.1734	160.5	1.02E-05	1.48E-05	5.66E-06	3728	5390	2065	1662	1662	4.55E-06	4.55E-06	45
1951	7234	161	7245.869	0.018	161.1741	161.5	1.10E-05	1.57E-05	6.35E-06	4030	5743	2317	1713	1713	4.69E-06	4.69E-06	43
1951	7234	162	7245.949	0.016	162.1748	162.5	1.06E-05	1.48E-05	6.49E-06	3879	5390	2368	1511	1511	4.14E-06	4.14E-06	39
1951	7234	163	7246.026	0.014	163.1755	163.5	1.05E-05	1.44E-05	6.62E-06	3828	5239	2418	1410	1410	3.86E-06	3.86E-06	37
1951	7234	164	7246.102	0.014	164.1762	164.5	1.12E-05	1.52E-05	7.18E-06	4080	5541	2619	1461	1461	4.00E-06	4.00E-06	36
1951	7234	165	7246.183	0.015	165.1769	165.5	1.08E-05	1.49E-05	6.62E-06	3929	5440	2418	1511	1511	4.14E-06	4.14E-06	38
1951	7234	166	7246.261	0.015	166.1776	166.5	1.04E-05	1.44E-05	6.35E-06	3778	5239	2317	1461	1461	4.00E-06	4.00E-06	39
1951	7234	167	7246.336	0.014	167.1783	167.5	1.08E-05	1.46E-05	6.90E-06	3929	5339	2519	1410	1410	3.86E-06	3.86E-06	36
1951	7234	168	7246.414	0.014	168.179	168.5	1.08E-05	1.49E-05	6.62E-06	3929	5440	2418	1511	1511	4.14E-06	4.14E-06	38
1951	7234	169	7246.492	0.016	169.1797	169.5	1.05E-05	1.48E-05	6.21E-06	3828	5389	2267	1561	1561	4.28E-06	4.28E-06	41
1951	7234	170	7246.568	0.015	170.1804	170.5	1.05E-05	1.45E-05	6.49E-06	3828	5289	2367	1461	1461	4.00E-06	4.00E-06	38
1951	7234	171	7246.644	0.014	171.1811	171.5	1.08E-05	1.49E-05	6.62E-06	3929	5440	2418	1511	1511	4.14E-06	4.14E-06	38
1951	7234	172	7246.722	0.016	172.1818	172.5	8.97E-06	1.34E-05	4.55E-06	3274	4886	1662	1612	1612	4.42E-06	4.42E-06	49
1951	7234	173	7246.787	0.016	173.1825	173.5	1.05E-05	1.49E-05	6.07E-06	3828	5440	2216	1612	1612	4.42E-06	4.42E-06	42
1951	7234	174	7246.863	0.016	174.1832	174.5	1.64E-05	2.08E-05	1.20E-05	5994	7605	4382	1612	1612	4.42E-06	4.42E-06	27
1951	7234	175	7246.982	0.016	175.1839	175.5	2.12E-05	2.54E-05	1.71E-05	7756	9267	6245	1511	1511	4.14E-06	4.14E-06	19
1951	7234	176	7247.136	0.014	176.1846	176.5	2.24E-05	2.66E-05	1.81E-05	8159	9720	6598	1561	1561	4.28E-06	4.28E-06	19
1951	7234	177	7247.298	0.017	177.1853	177.5	2.07E-05	2.51E-05	1.63E-05	7554	9166	5943	1612	1612	4.42E-06	4.42E-06	21
1951	7234	178	7247.448	0.015	178.1859	178.5	1.61E-05	2.01E-05	1.21E-05	5892	7353	4432	1461	1461	4.00E-06	4.00E-06	25
1951	7234	179	7247.565	0.014	179.1866	179.5	1.52E-05	1.88E-05	1.16E-05	5540	6849	4230	1309	1309	3.59E-06	3.59E-06	24
1951	7234	180	7247.675	0.012	180.1873	180.5	9.80E-06	1.34E-05	6.21E-06	3576	4885	2266	1309	1309	3.59E-06	3.59E-06	37
1951	7234	181	7247.746	0.014	181.188	181.5	1.16E-05	1.53E-05	7.86E-06	4230	5590	2871	1360	1360	3.73E-06	3.73E-06	32
1951	7234	182	7247.83	0.013	182.1679	182.5	1.64E-05	2.01E-05	1.27E-05	5993	7352	4633	1360	1360	3.73E-06	3.73E-06	23
1951	7234	183	7247.949	0.014	183.1686	183.5	1.50E-05	1.89E-05	1.12E-05	5489	6899	4079	1410	1410	3.86E-06	3.86E-06	26
1951	7234	184	7248.058	0.014	184.1693	184.5	8.83E-06	1.28E-05	4.83E-06	3223	4683	1763	1460	1460	4.00E-06	4.00E-06	45
1951	7234	185	7248.122	0.015	185.17	185.5	1.03E-05	1.43E-05	6.35E-06	3777	5237	2316	1460	1460	4.00E-06	4.00E-06	39
1951	7234	186	7248.197	0.014	186.1707	186.5	1.16E-05	1.55E-05	7.73E-06	4230	5640	2820	1410	1410	3.86E-06	3.86E-06	33
1951	7234	187	7248.281	0.014	187.1714	187.5	1.23E-05	1.63E-05	8.28E-06	4482	5942	3021	1460	1460	4.00E-06	4.00E-06	33
1951	7234	188	7248.37	0.015	188.1721	188.5	1.50E-05	1.90E-05	1.10E-05	5489	6949	4028	1460	1460	4.00E-06	4.00E-06	27
1951	7234	189	7248.479	0.014	189.1728	189.5	2.03E-05	2.40E-05	1.66E-05	7402	8762	6043	1360	1360	3.72E-06	3.72E-06	18
1951	7234	190	7248.626	0.013	190.1734	190.5	3.70E-05	4.12E-05	3.27E-05	13495	15056	11934	1561	1561	4.28E-06	4.28E-06	12
1951	7234	191	7248.894	0.018	191.1741	191.5	2.21E-05	2.72E-05	1.70E-05	8056	9919	6193	1863	1863	5.10E-06	5.10E-06	23
1951	7234	192	7249.054	0.019	192.1748	192.5	1.30E-05	1.74E-05	8.55E-06	4733	6344	3122	1611	1611	4.41E-06	4.41E-06	34
1951	7234	193	7249.148	0.013	193.1755	193.5	1.17E-05	1.53E-05	8.14E-06	4280	5589	2971	1309	1309	3.59E-06	3.59E-06	31
1951	7234	194	7249.233	0.013	194.1762	194.5	1.02E-05	1.39E-05	6.48E-06	3726	5085	2366	1359	1359	3.72E-06	3.72E-06	36
1951	7234	195	7249.307	0.014	195.1769	195.5	9.93E-06	1.38E-05	6.07E-06	3625	5035	2215	1410	1410	3.86E-06	3.86E-06	39
1951	7234	196	7249.379	0.014	196.1776	196.5	1.01E-05	1.38E-05	6.35E-06	3675	5035	2316	1359	1359	3.72E-06	3.72E-06	37
1951	7234	197	7249.452	0.013	197.1783	197.5	9.79E-06	1.32E-05	6.35E-06	3575	4833	2316	1259	1259	3.45E-06	3.45E-06	35
1951	7234	198	7249.523	0.012	198.179	198.5	2.06E-05	2.37E-05	1.74E-05	7502	8660	6344	1158	1158	3.17E-06	3.17E-06	15
1951	7234	199	7249.672	0.011	199.1797	199.5	1.13E-05	1.42E-05	8.41E-06	4128	5186	3071	1057	1057	2.90E-06	2.90E-06	26
1951	7234	200	7249.754	0.01	200.1804	200.5	1.34E-05	1.67E-05	1.01E-05	4884	6092	3675	1208	1208	3.31E-06	3.31E-06	25
1951	7234	201	7249.851	0.014	201.1811	201.5	1.01E-05	1.37E-05	6.48E-06	3675	4984	2366	1309	1309	3.59E-06	3.59E-06	36
1951	7234	202	7249.924	0.012	202.1818	202.5	8.97E-06	1.21E-05	5.79E-06	3272	4430	2114	1158	1158	3.17E-06	3.17E-06	35
1951	7234	203	7249.989	0.011	203.1825	203.5	8.28E-06	1.13E-05	5.24E-06	3021	4128	1913	1108	1108	3.03E-06	3.03E-06	37
1951	7234	204	7250.049	0.011	204.1832	204.5	1.27E-05	1.59E-05	9.52E-06	4632	5790	3474	1158	1158	3.17E-06	3.17E-06	25
1951	7234	205	7250.141	0.012	205.1839	205.5	1.23E-05	1.54E-05	9.10E-06	4481	5638	3323	1158	1158	3.17E-06	3.17E-06	26
1951	7234	206	7250.23	0.011	206.1846	206.5	1.20E-05	1.50E-05	8.97E-06	4380	5487	3272	1108	1108	3.03E-06	3.03E-06	25
1951	7234	207	7250.317	0.011	207.1853	207.5	8.76E-06	1.05E-05	7.03E-06	3197	3826	2567	629	629	1.72E-06	1.72E-06	20
1951	7234	209	7250.444	0.014	209.1866	209.5	1.23E-05	1.60E-05	8.55E-06	4480	5840	3121	1359	1359	3.72E-06	3.72E-06	30
1951	7234	210	7250.533	0.013	210.1873	210.5	7.59E-06	1.06E-05	4.55E-06	2769	3876	1661	1108	1108	3.03E-06	3.03E-06	40
1951	7234	211	7250.588	0.009	211.188	211.5	1.06E-05	1.32E-05	8.00E-06	3876	4833	2920	956	956	2.62E-06	2.62E-06	25
1951	7234	212	7250.665	0.01	212.1887	212.5	9.38E-06	1.23E-05	6.48E-06	3423	4480	2366	1057	1057	2.90E-06	2.90E-06	31
1951	7234	213	7250.733	0.011	213.1679	213.5	8.55E-06	1.14E-05	5.65E-06	3121	4178	2064	1057	1057	2.90E-06	2.90E-06	34
1951	7234	214	7250.795	0.01	214.1686	214.5	8.69E-06	1.01E-05	7.31E-06	3171	3675	2668	503	503	1.38E-06	1.38E-06	16
1951	7234	216	7250.921	0.01	216.17	216.5	7.17E-06	1.03E-05	4.00E-06	2618	3775	1460	1158	1158	3.17E-06	3.17E-06	44
1951	7234	217	7250.973	0.013	217.1707	217.5	7.72E-06	1.16E-05	3.86E-06	2819	4228	1409	1409	1409	3.86E-06	3.86E-06	50
1951	7234	218	7251.029	0.015	218.1714	218.5	1.08E-05	1.42E-05	7.31E-06	3926	5185	2668	1258	1258	3.45E-06	3.45E-06	32
1951	7234	219	7251.107	0.01	219.1721	219.5	1.34E-05	1.61E-05	1.06E-05	4883	5889	3876	1007	1007	2.76E-06	2.76E-06	21
1951	7234	220	7251.204	0.01	220.1728	220.5	1.32E-05	1.53E-05	1.10E-05	4807	5587	4027	780	780	2.14E-06	2.14E-06	16
1951	7234	222	7251.395	0.021	222.1741	222.5	1.41E-05	1.97E-05	8.41E-06	5134	7198	3070	2064	2064	5.65E-06	5.65E-06	40
1951	7234	223	7251.497	0.02	223.1748	223.5	2.07E-05	2.55E-05	1.59E-05	7550	9312	5788	1762	1762	4.83E-06	4.83E-06	23
1951	7234	224	7251.647	0.015	224.4255	224.5	1.25E-05	1.61E-05	8.96E-06	4580	5889	3272	1309	1309	3.59E-06	3.59E-06	29
1951	7234	225	7251.738	0.011	225.1762	225.5	1.37E-05	1.68E-05	1.05E-05	4983	6141	3825	1158	1158	3.17E-06	3.17E-06	23
1951	7234	226	7251.837	0.012	226.1769	226.5	1.02E-05	1.38E-05	6.62E-06	3725	5033	2416	1309	1309	3.59E-06	3.59E-06	35
1951	7234	227	7251.911	0.014	227.1776	227.5	9.93E-06	1.30E-05	6.89E-06	3624	4731	2517	1107	1107	3.03E-06	3.03E-06	31
1951	7234	228	7251.983	0.008	228.1783	228.5	1.06E-05	1.34E-05	7.86E-06	3875	4882	2869	1007	1007	2.76E-06	2.76E-06	26
1951	7234	229	7252.06	0.012	229.179	229.5	1.60E-05	1.90E-05	1.30E-05	5838	6946	4731	1107	1107	3.03E-06	3.03E-06	19
1951	7234	230	7252.176	0.01	230.1797	230.5	9.10E-06	1.20E-05	6.21E-06	3322	4379	2265	1057	1057	2.90E-06	2.90E-06	32
1951	7234	231	7252.242	0.011	231.1804	231.5	1.21E-05	1.63E-05	8.00E-06	4429	5939	2919	1510	1510	4.14E-06	4.14E-06	34
1951	7234	232	7252.33	0.019	232.1811	232.5	1.21E-05	1.63E-05	8.00E-06	4429	5939	2919	1510	1510	4.14E-06	4.14E-06	34
1951	7234	233	7252.418	0.011	233.1818	233.5	1.63E-05	1.90E-05	1.35E-05	5939	6945	4932	1007	1007	2.76E-06	2.76E-06	17
1951	7234	234	7252.536	0.009	234.1825	234.5	1.50E-05	1.85E-05	1.16E-05	5486	6744	4227	1258	1258	3.45E-06	3.45E-06	23
1951	7234	235	7252.645	0.016	235.1832	235.5	1.52E-05	1.86E-05	1.17E-05	5536	6794	4278	1258	1258	3.45E-06	3.45E-06	23
1951	7234	236	7252.755	0.009	236.1839	236.5	1.96E-05	2.25E-05	1.67E-05	7146	8203	6089	1057	1057	2.90E-06	2.90E-06	15
1951	7234	237	7252.897	0.012	237.1846	237.5	1.30E-05	1.65E-05	9.38E-06	4730	6039	3422	1308	1308	3.58E-06	3.58E-06	28
1951	7234	238	7252.991	0.014	238.1853	238.5	1.88E-05	2.33E-05	1.42E-05	6844	8505	5183	1661	1661	4.55E-06	4.55E-06	24
1951	7234	239	7253.127	0.019	239.1859	239.5	2.96E-05	3.42E-05	2.51E-05	10819	12480	9159	1661	1661	4.55E-06	4.55E-06	15
1951	7234	240	7253.342	0.014	240.1866	240.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1951	7237	142	8331.869	0.014	142.1825	142.5	-1.09E-05	-7.68E-06	-1.42E-05	-3987	-2804	-5169	1183	1183	3.24E-06	3.24E-06	-30
1951	7237	143	8331.778	0.013	143.1832	143.5	-1.09E-05	-1.07E-05	-1.12E-05	-3994	-3896	-4093	99	99	2.70E-07	2.70E-07	-2
1951	7237	155	8330.684	0.014	155.17	155.5	-1.08E-05	-7.44E-06	-1.42E-05	-3943	-2716	-5170	1227	1227	3.36E-06	3.36E-06	-31
1951	7237	156	8330.594	0.014	156.1707	156.5	-1.12E-05	-7.56E-06	-1.48E-05	-4075	-2760	-5389	1314	1314	3.60E-06	3.60E-06	-32
1951	7237	157	8330.501	0.016	157.1714	157.5	-1.07E-05	-6.96E-06	-1.44E-05	-3900	-2541	-5258	1358	1358	3.72E-06	3.72E-06	-35
1951	7237	158	8330.412	0.015	158.1721	158.5	-1.07E-05	-7.08E-06	-1.43E-05	-3900	-2585	-5214	1314	1314	3.60E-06	3.60E-06	-34
1951	7237	159	8330.323	0.015	159.1728	159.5	-1.04E-05	-6.84E-06	-1.40E-05	-3812	-2498	-5126	1314	1314	3.60E-06	3.60E-06	-34
1951	7237	160	8330.236	0.015	160.1734	160.5	-1.06E-05	-6.60E-06	-1.45E-05	-3856	-2410	-5302	1446	1446	3.96E-06	3.96E-06	-38
1951	7237	161	8330.148	0.018	161.1741	161.5	-1.10E-05	-6.96E-06	-1.51E-05	-4031	-2541	-5521	1490	1490	4.08E-06	4.08E-06	-37
1951	7237	162	8330.056	0.016	162.1748	162.5	-9.84E-06	-6.00E-06	-1.37E-05	-3593	-2191	-4995	1402	1402	3.84E-06	3.84E-06	-39
1951	7237	163	8329.974	0.016	163.1755	163.5	-9.24E-06	-5.52E-06	-1.30E-05	-3374	-2016	-4732	1358	1358	3.72E-06	3.72E-06	-40
1951	7237	164	8329.897	0.015	164.1762	164.5	-8.76E-06	-5.16E-06	-1.24E-05	-3199	-1884	-4513	1315	1315	3.60E-06	3.60E-06	-41
1951	7237	165	8329.824	0.015	165.1769	165.5	-7.44E-06	-3.84E-06	-1.10E-05	-2717	-1402	-4031	1315	1315	3.60E-06	3.60E-06	-48
1951	7237	166	8329.762	0.015	166.1776	166.5	-8.16E-06	-4.68E-06	-1.16E-05	-2980	-1709	-4250	1271	1271	3.48E-06	3.48E-06	-43
1951	7237	167	8329.694	0.014	167.1783	167.5	-9.00E-06	-5.52E-06	-1.25E-05	-3286	-2016	-4557	1271	1271	3.48E-06	3.48E-06	-39
1951	7237	168	8329.619	0.015	168.179	168.5	-8.28E-06	-4.68E-06	-1.19E-05	-3024	-1709	-4338	1315	1315	3.60E-06	3.60E-06	-43
1951	7237	169	8329.55	0.015	169.1797	169.5	-7.80E-06	-4.44E-06	-1.12E-05	-2848	-1621	-4075	1227	1227	3.36E-06	3.36E-06	-43
1951	7237	170	8329.485	0.013	170.1804	170.5	-8.52E-06	-5.40E-06	-1.16E-05	-3111	-1972	-4251	1139	1139	3.12E-06	3.12E-06	-37
1951	7237	171	8329.414	0.013	171.1811	171.5	-8.40E-06	-5.04E-06	-1.18E-05	-3067	-1840	-4294	1227	1227	3.36E-06	3.36E-06	-40
1951	7237	172	8329.344	0.015	172.1818	172.5	-7.56E-06	-3.96E-06	-1.12E-05	-2761	-1446	-4075	1315	1315	3.60E-06	3.60E-06	-48
1951	7237	173	8329.281	0.015	173.1825	173.5	-6.60E-06	-3.12E-06	-1.01E-05	-2410	-1139	-3681	1271	1271	3.48E-06	3.48E-06	-53
1951	7237	174	8329.226	0.014	174.1832	174.5	-5.64E-06	-2.04E-06	-9.24E-06	-2060	-745	-3374	1315	1315	3.60E-06	3.60E-06	-64
1951	7237	175	8329.179	0.016	175.1839	175.5	-1.30E-05	-9.48E-06	-1.64E-05	-4733	-3462	-6004	1271	1271	3.48E-06	3.48E-06	-27
1951	7237	176	8329.071	0.013	176.1846	176.5	-1.09E-05	-7.56E-06	-1.43E-05	-3988	-2761	-5215	1227	1227	3.36E-06	3.36E-06	-31
1951	7237	177	8328.98	0.015	177.1853	177.5	-1.50E-05	-1.15E-05	-1.85E-05	-5478	-4207	-6749	1271	1271	3.48E-06	3.48E-06	-23
1951	7237	178	8328.855	0.014	178.1859	178.5	-1.36E-05	-1.01E-05	-1.70E-05	-4952	-3681	-6223	1271	1271	3.48E-06	3.48E-06	-26
1951	7237	179	8328.742	0.015	179.1866	179.5	-1.51E-05	-1.16E-05	-1.86E-05	-5522	-4251	-6793	1271	1271	3.48E-06	3.48E-06	-23
1951	7237	180	8328.616	0.014	180.1873	180.5	-1.54E-05	-1.21E-05	-1.86E-05	-5610	-4426	-6793	1183	1183	3.24E-06	3.24E-06	-21
1951	7237	181	8328.488	0.013	181.188	181.5	-1.16E-05	-8.53E-06	-1.48E-05	-4251	-3112	-5391	1139	1139	3.12E-06	3.12E-06	-27
1951	7237	182	8328.391	0.013	182.1679	182.5	-2.46E-05	-2.14E-05	-2.79E-05	-8984	-7801	-10168	1183	1183	3.24E-06	3.24E-06	-13
1951	7237	183	8328.186	0.014	183.1686	183.5	-1.71E-05	-1.37E-05	-2.04E-05	-6223	-4996	-7451	1227	1227	3.36E-06	3.36E-06	-20
1951	7237	184	8328.044	0.014	184.1693	184.5	-1.60E-05	-1.24E-05	-1.96E-05	-5829	-4514	-7144	1315	1315	3.60E-06	3.60E-06	-23
1951	7237	185	8327.911	0.016	185.17	185.5	-1.59E-05	-1.21E-05	-1.96E-05	-5785	-4427	-7144	1359	1359	3.72E-06	3.72E-06	-23
1951	7237	186	8327.779	0.015	186.1707	186.5	-1.57E-05	-1.24E-05	-1.91E-05	-5742	-4514	-6969	1227	1227	3.36E-06	3.36E-06	-21
1951	7237	187	8327.648	0.013	187.1714	187.5	-1.56E-05	-1.24E-05	-1.89E-05	-5698	-4515	-6881	1183	1183	3.24E-06	3.24E-06	-21
1951	7237	188	8327.518	0.014	188.1721	188.5	-1.63E-05	-1.30E-05	-1.97E-05	-5961	-4734	-7188	1227	1227	3.36E-06	3.36E-06	-21
1951	7237	189	8327.382	0.014	189.1728	189.5	-2.46E-05	-2.09E-05	-2.83E-05	-8986	-7627	-10344	1359	1359	3.72E-06	3.72E-06	-15
1951	7237	190	8327.177	0.017	190.1734	190.5	-5.58E-05	-5.16E-05	-6.00E-05	-20383	-18848	-21917	1534	1534	4.20E-06	4.20E-06	-8
1951	7237	191	8326.712	0.018	191.1741	191.5	-1.03E-05	-5.88E-06	-1.48E-05	-3770	-2148	-5392	1622	1622	4.44E-06	4.44E-06	-43
1951	7237	192	8326.626	0.019	192.1748	192.5	-1.06E-05	-6.49E-06	-1.47E-05	-3858	-2367	-5348	1490	1490	4.08E-06	4.08E-06	-39
1951	7237	193	8326.538	0.015	193.1755	193.5	-1.27E-05	-9.25E-06	-1.62E-05	-4647	-3375	-5918	1271	1271	3.48E-06	3.48E-06	-27
1951	7237	194	8326.432	0.014	194.1762	194.5	-1.33E-05	-9.73E-06	-1.69E-05	-4866	-3551	-6181	1315	1315	3.60E-06	3.60E-06	-27
1951	7237	195	8326.321	0.016	195.1769	195.5	-2.89E-05	-2.55E-05	-3.24E-05	-10565	-9294	-11836	1271	1271	3.48E-06	3.48E-06	-12
1951	7237	197	8326.08	0.013	197.1783	197.5	-1.43E-05	-1.12E-05	-1.74E-05	-5217	-4077	-6357	1140	1140	3.12E-06	3.12E-06	-22
1951	7237	198	8325.961	0.013	198.179	198.5	-2.39E-05	-2.08E-05	-2.70E-05	-8724	-7584	-9864	1140	1140	3.12E-06	3.12E-06	-13
1951	7237	199	8325.762	0.013	199.1797	199.5	-1.61E-05	-1.30E-05	-1.92E-05	-5875	-4735	-7014	1140	1140	3.12E-06	3.12E-06	-19
1951	7237	200	8325.628	0.013	200.1804	200.5	-1.57E-05	-1.24E-05	-1.91E-05	-5743	-4516	-6971	1228	1228	3.36E-06	3.36E-06	-21
1951	7237	201	8325.497	0.015	201.1811	201.5	-1.17E-05	-8.41E-06	-1.49E-05	-4253	-3069	-5436	1184	1184	3.24E-06	3.24E-06	-28
1951	7237	202	8325.4	0.012	202.1818	202.5	-1.26E-05	-9.73E-06	-1.55E-05	-4603	-3551	-5656	1052	1052	2.88E-06	2.88E-06	-23
1951	7237	203	8325.295	0.012	203.1825	203.5	-1.09E-05	-7.93E-06	-1.39E-05	-3990	-2894	-5086	1096	1096	3.00E-06	3.00E-06	-27
1951	7237	204	8325.204	0.013	204.1832	204.5	-1.39E-05	-1.09E-05	-1.69E-05	-5086	-3990	-6182	1096	1096	3.00E-06	3.00E-06	-22
1951	7237	205	8325.088	0.012	205.1839	205.5	-1.18E-05	-8.77E-06	-1.48E-05	-4297	-3201	-5393	1096	1096	3.00E-06	3.00E-06	-26
1951	7237	206	8324.99	0.013	206.1846	206.5	-1.36E-05	-1.06E-05	-1.66E-05	-4954	-3858	-6050	1096	1096	3.00E-06	3.00E-06	-22
1951	7237	207	8324.877	0.012	207.1853	207.5	-9.85E-06	-8.23E-06	-1.15E-05	-3595	-3003	-4187	592	592	1.62E-06	1.62E-06	-16
1951	7237	209	8324.713	0.015	209.1866	209.5	-1.05E-05	-6.73E-06	-1.42E-05	-3815	-2455	-5174	1359	1359	3.72E-06	3.72E-06	-36
1951	7237	210	8324.626	0.016	210.1873	210.5	-9.49E-06	-6.25E-06	-1.27E-05	-3464	-2280	-4648	1184	1184	3.24E-06	3.24E-06	-34
1951	7237	211	8324.547	0.011	211.188	211.5	-8.29E-06	-5.41E-06	-1.12E-05	-3025	-1973	-4078	1052	1052	2.88E-06	2.88E-06	-35
1951	7237	212	8324.478	0.013	212.1887	212.5	-8.77E-06	-5.65E-06	-1.19E-05	-3201	-2061	-4341	1140	1140	3.12E-06	3.12E-06	-36
1951	7237	213	8324.405	0.013	213.1679	213.5	-8.29E-06	-5.41E-06	-1.12E-05	-3025	-1973	-4078	1052	1052	2.88E-06	2.88E-06	-35
1951	7237	214	8324.336	0.011	214.1686	214.5	-6.91E-06	-5.53E-06	-8.29E-06	-2521	-2017	-3025	504	504	1.38E-06	1.38E-06	-20
1951	7237	216	8324.221	0.012	216.17	216.5	-6.37E-06	-3.12E-06	-9.61E-06	-2324	-1140	-3508	1184	1184	3.24E-06	3.24E-06	-51
1951	7237	217	8324.168	0.015	217.1707	217.5	-8.89E-06	-5.17E-06	-1.26E-05	-3245	-1885	-4604	1359	1359	3.72E-06	3.72E-06	-42
1951	7237	218	8324.094	0.016	218.1714	218.5	-8.53E-06	-5.17E-06	-1.19E-05	-3113	-1885	-4341	1228	1228	3.36E-06	3.36E-06	-39
1951	7237	219	8324.023	0.012	219.1721	219.5	-1.32E-05	-1.02E-05	-1.62E-05	-4823	-3727	-5920	1096	1096	3.00E-06	3.00E-06	-23
1951	7237	220	8323.913	0.013	220.1728	220.5	-9.97E-06	-7.81E-06	-1.21E-05	-3640	-2850	-4429	789	789	2.16E-06	2.16E-06	-22
1951	7237	222	8323.747	0.023	222.1741	222.5	-1.81E-05	-1.57E-05	-2.05E-05	-6600	-5723	-7477	877	877	2.40E-06	2.40E-06	-13
1951	7237	224	8323.446	0.017	224.4255	224.5	-1.62E-05	-1.27E-05	-1.97E-05	-5920	-4648	-7192	1272	1272	3.48E-06	3.48E-06	-21
1951	7237	225	8323.311	0.012	225.1762	225.5	-1.47E-05	-1.17E-05	-1.77E-05	-5350	-4254	-6446	1096	1096	3.00E-06	3.00E-06	-20
1951	7237	226	8323.189	0.013	226.1769	226.5	-9.61E-06	-6.13E-06	-1.31E-05	-3508	-2237	-4780	1272	1272	3.48E-06	3.48E-06	-36
1951	7237	227	8323.109	0.016	227.1776	227.5	-1.44E-05	-1.13E-05	-1.75E-05	-5262	-4122	-6403	1140	1140	3.12E-06	3.12E-06	-22
1951	7237	228	8322.989	0.01	228.1783	228.5	-1.02E-05	-7.45E-06	-1.30E-05	-3728	-2719	-4736	1009	1009	2.76E-06	2.76E-06	-27
1951	7237	229	8322.904	0.013	229.179	229.5	-3.84E-06	-9.61E-07	-6.73E-06	-1403	-351	-2456	1053	1053	2.88E-06	2.88E-06	-75
1951	7237	230	8322.872	0.011	230.1797	230.5	-4.33E-06	-1.68E-06	-6.97E-06	-1579	-614	-2544	965	965	2.64E-06	2.64E-06	-61
1951	7237	231	8322.836	0.011	231.1804	231.5	-3.60E-06	1.20E-07	-7.33E-06	-1316	44	-2675	1360	1360	3.72E-06	3.72E-06	-103
1951	7237	232	8322.806	0.02	232.1811	232.5	-1.08E-06	2.64E-06	-4.81E-06	-395	965	-1754	1360	1360	3.72E-06	3.72E-06	-344
1951	7237	233	8322.797	0.011	233.1818	233.5	2.64E-06	5.17E-06	1.20E-07	965	1886	44	921	921	2.52E-06	2.52E-06	95
1951	7237	234	8322.819	0.01	234.1825	234.5	-6.13E-06	-3.00E-06	-9.25E-06	-2237	-1096	-3377	1140	1140	3.12E-06	3.12E-06	-51
1951	7237	235	8322.768	0.016	235.1832	235.5	5.17E-06	8.29E-06	2.04E-06	1886	3026	746	1140	1140	3.12E-06	3.12E-06	60
1951	7237	236	8322.811	0.01	236.1839	236.5	9.25E-06	1.19E-05	6.61E-06	3377	4342	2412	965	965	2.64E-06	2.64E-06	29
1951	7237	237	8322.888	0.012	237.1846	237.5	1.33E-05	1.71E-05	9.61E-06	4868	6227	3508	1359	1359	3.72E-06	3.72E-06	28
1951	7237	238	8322.999	0.019	238.1853	238.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1951	7239	142	8623.023	0.012	142.1825	142.5	-9.63E-06	-6.84E-06	-1.24E-05	-3513	-2497	-4529	1016	1016	2.78E-06	2.78E-06	-29
1951	7239	143	8622.94	0.012	143.1832	143.5	-9.70E-06	-9.47E-06	-9.94E-06	-3542	-3457	-3626	85	85	2.32E-07	2.32E-07	-2
1951	7239	155	8621.936	0.012	155.17	155.5	-9.86E-06	-7.08E-06	-1.26E-05	-3598	-2582	-4614	1016	1016	2.78E-06	2.78E-06	-28
1951	7239	156	8621.851	0.012	156.1707	156.5	-9.74E-06	-6.84E-06	-1.26E-05	-3556	-2498	-4614	1058	1058	2.90E-06	2.90E-06	-30
1951	7239	157	8621.767	0.013	157.1714	157.5	-9.51E-06	-6.50E-06	-1.25E-05	-3471	-2371	-4572	1101	1101	3.02E-06	3.02E-06	-32
1951	7239	158	8621.685	0.013	158.1721	158.5	-9.74E-06	-6.96E-06	-1.25E-05	-3556	-2540	-4572	1016	1016	2.78E-06	2.78E-06	-29
1951	7239	159	8621.601	0.011	159.1728	159.5	-9.63E-06	-6.84E-06	-1.24E-05	-3514	-2498	-4530	1016	1016	2.78E-06	2.78E-06	-29
1951	7239	160	8621.518	0.013	160.1734	160.5	-9.74E-06	-6.61E-06	-1.29E-05	-3556	-2413	-4699	1143	1143	3.13E-06	3.13E-06	-32
1951	7239	161	8621.434	0.014	161.1741	161.5	-9.63E-06	-6.50E-06	-1.28E-05	-3514	-2371	-4657	1143	1143	3.13E-06	3.13E-06	-33
1951	7239	162	8621.351	0.013	162.1748	162.5	-9.40E-06	-6.38E-06	-1.24E-05	-3429	-2329	-4530	1101	1101	3.02E-06	3.02E-06	-32
1951	7239	163	8621.27	0.013	163.1755	163.5	-9.40E-06	-6.26E-06	-1.25E-05	-3429	-2286	-4572	1143	1143	3.13E-06	3.13E-06	-33
1951	7239	164	8621.189	0.014	164.1762	164.5	-9.40E-06	-6.15E-06	-1.26E-05	-3429	-2244	-4615	1185	1185	3.25E-06	3.25E-06	-35
1951	7239	165	8621.108	0.014	165.1769	165.5	-9.05E-06	-5.80E-06	-1.23E-05	-3302	-2117	-4488	1185	1185	3.25E-06	3.25E-06	-36
1951	7239	166	8621.03	0.014	166.1776	166.5	-9.05E-06	-6.03E-06	-1.21E-05	-3302	-2202	-4403	1101	1101	3.02E-06	3.02E-06	-33
1951	7239	167	8620.952	0.012	167.1783	167.5	-9.40E-06	-6.50E-06	-1.23E-05	-3429	-2371	-4488	1058	1058	2.90E-06	2.90E-06	-31
1951	7239	168	8620.871	0.013	168.179	168.5	-8.82E-06	-5.68E-06	-1.19E-05	-3218	-2075	-4361	1143	1143	3.13E-06	3.13E-06	-36
1951	7239	169	8620.795	0.014	169.1797	169.5	-9.51E-06	-6.50E-06	-1.25E-05	-3472	-2371	-4573	1101	1101	3.02E-06	3.02E-06	-32
1951	7239	170	8620.713	0.012	170.1804	170.5	-9.16E-06	-6.50E-06	-1.18E-05	-3345	-2371	-4319	974	974	2.67E-06	2.67E-06	-29
1951	7239	171	8620.634	0.011	171.1811	171.5	-9.40E-06	-6.73E-06	-1.21E-05	-3430	-2456	-4403	974	974	2.67E-06	2.67E-06	-28
1951	7239	172	8620.553	0.012	172.1818	172.5	-9.16E-06	-6.15E-06	-1.22E-05	-3345	-2244	-4446	1101	1101	3.02E-06	3.02E-06	-33
1951	7239	173	8620.474	0.014	173.1825	173.5	-8.70E-06	-5.45E-06	-1.19E-05	-3176	-1990	-4361	1186	1186	3.25E-06	3.25E-06	-37
1951	7239	174	8620.399	0.014	174.1832	174.5	-6.61E-06	-3.48E-06	-9.74E-06	-2413	-1270	-3557	1143	1143	3.13E-06	3.13E-06	-47
1951	7239	175	8620.342	0.013	175.1839	175.5	-1.39E-06	1.62E-06	-4.41E-06	-508	593	-1609	1101	1101	3.02E-06	3.02E-06	-217
1951	7239	176	8620.33	0.013	176.1846	176.5	-1.51E-06	1.62E-06	-4.64E-06	-550	593	-1694	1143	1143	3.13E-06	3.13E-06	-208
1951	7239	177	8620.317	0.014	177.1853	177.5	-6.84E-06	-3.60E-06	-1.01E-05	-2498	-1313	-3684	1186	1186	3.25E-06	3.25E-06	-47
1951	7239	178	8620.258	0.014	178.1859	178.5	-8.35E-06	-5.10E-06	-1.16E-05	-3049	-1863	-4234	1186	1186	3.25E-06	3.25E-06	-39
1951	7239	179	8620.186	0.014	179.1866	179.5	-1.15E-05	-8.35E-06	-1.46E-05	-4192	-3049	-5335	1143	1143	3.13E-06	3.13E-06	-27
1951	7239	180	8620.087	0.013	180.1873	180.5	-1.19E-05	-8.93E-06	-1.50E-05	-4361	-3260	-5462	1101	1101	3.02E-06	3.02E-06	-25
1951	7239	181	8619.984	0.013	181.188	181.5	-1.35E-05	-1.07E-05	-1.62E-05	-4912	-3896	-5928	1016	1016	2.78E-06	2.78E-06	-21
1951	7239	182	8619.868	0.011	182.1679	182.5	-2.27E-05	-2.01E-05	-2.54E-05	-8300	-7326	-9273	974	974	2.67E-06	2.67E-06	-12
1951	7239	183	8619.672	0.012	183.1686	183.5	-8.47E-06	-5.68E-06	-1.13E-05	-3091	-2075	-4107	1016	1016	2.78E-06	2.78E-06	-33
1951	7239	184	8619.599	0.012	184.1693	184.5	-1.02E-05	-7.19E-06	-1.32E-05	-3726	-2625	-4827	1101	1101	3.02E-06	3.02E-06	-30
1951	7239	185	8619.511	0.014	185.17	185.5	-9.51E-06	-6.38E-06	-1.26E-05	-3472	-2329	-4616	1143	1143	3.13E-06	3.13E-06	-33
1951	7239	186	8619.429	0.013	186.1707	186.5	-1.03E-05	-7.31E-06	-1.33E-05	-3769	-2668	-4870	1101	1101	3.02E-06	3.02E-06	-29
1951	7239	187	8619.34	0.013	187.1714	187.5	-1.14E-05	-8.35E-06	-1.44E-05	-4150	-3049	-5251	1101	1101	3.02E-06	3.02E-06	-27
1951	7239	188	8619.242	0.013	188.1721	188.5	-1.03E-05	-7.31E-06	-1.33E-05	-3769	-2668	-4870	1101	1101	3.02E-06	3.02E-06	-29
1951	7239	189	8619.153	0.013	189.1728	189.5	-3.88E-05	-3.56E-05	-4.19E-05	-14144	-13001	-15288	1143	1143	3.13E-06	3.13E-06	-8
1951	7239	190	8618.819	0.014	190.1734	190.5	1.38E-05	1.71E-05	1.06E-05	5040	6225	3854	1186	1186	3.25E-06	3.25E-06	24
1951	7239	191	8618.938	0.014	191.1741	191.5	-6.73E-06	-2.90E-06	-1.06E-05	-2456	-1059	-3854	1398	1398	3.83E-06	3.83E-06	-57
1951	7239	192	8618.88	0.019	192.1748	192.5	-1.01E-05	-6.27E-06	-1.39E-05	-3684	-2287	-5082	1398	1398	3.83E-06	3.83E-06	-38
1951	7239	193	8618.793	0.014	193.1755	193.5	-1.06E-05	-7.43E-06	-1.37E-05	-3854	-2710	-4997	1143	1143	3.13E-06	3.13E-06	-30
1951	7239	194	8618.702	0.013	194.1762	194.5	-1.03E-05	-8.82E-06	-1.18E-05	-3769	-3219	-4320	551	551	1.51E-06	1.51E-06	-15
1951	7239	196	8618.524	0.013	196.1776	196.5	-1.01E-05	-7.19E-06	-1.30E-05	-3685	-2626	-4743	1059	1059	2.90E-06	2.90E-06	-29
1951	7239	197	8618.437	0.012	197.1783	197.5	-1.23E-05	-9.63E-06	-1.50E-05	-4489	-3515	-5463	974	974	2.67E-06	2.67E-06	-22
1951	7239	198	8618.331	0.011	198.179	198.5	-3.02E-06	-3.48E-07	-5.69E-06	-1101	-127	-2075	974	974	2.67E-06	2.67E-06	-88
1951	7239	199	8618.305	0.012	199.1797	199.5	-1.21E-05	-9.40E-06	-1.47E-05	-4405	-3431	-5379	974	974	2.67E-06	2.67E-06	-22
1951	7239	200	8618.201	0.011	200.1804	200.5	-9.98E-06	-7.08E-06	-1.29E-05	-3642	-2583	-4701	1059	1059	2.90E-06	2.90E-06	-29
1951	7239	201	8618.115	0.014	201.1811	201.5	-1.08E-05	-7.77E-06	-1.38E-05	-3939	-2838	-5040	1101	1101	3.02E-06	3.02E-06	-28
1951	7239	202	8618.022	0.012	202.1818	202.5	-1.03E-05	-7.66E-06	-1.30E-05	-3769	-2795	-4744	974	974	2.67E-06	2.67E-06	-26
1951	7239	203	8617.933	0.011	203.1825	203.5	-1.03E-05	-7.66E-06	-1.30E-05	-3769	-2795	-4744	974	974	2.67E-06	2.67E-06	-26
1951	7239	204	8617.844	0.012	204.1832	204.5	-7.72E-06	-6.38E-06	-9.05E-06	-2817	-2329	-3304	487	487	1.33E-06	1.33E-06	-17
1951	7239	206	8617.711	0.011	206.1846	206.5	-9.28E-06	-6.73E-06	-1.18E-05	-3388	-2457	-4320	932	932	2.55E-06	2.55E-06	-28
1951	7239	207	8617.631	0.011	207.1853	207.5	-1.06E-05	-9.05E-06	-1.21E-05	-3854	-3304	-4405	551	551	1.51E-06	1.51E-06	-14
1951	7239	209	8617.449	0.015	209.1866	209.5	-1.02E-05	-6.85E-06	-1.36E-05	-3727	-2499	-4956	1228	1228	3.37E-06	3.37E-06	-33
1951	7239	210	8617.361	0.014	210.1873	210.5	-1.01E-05	-7.43E-06	-1.28E-05	-3685	-2711	-4659	974	974	2.67E-06	2.67E-06	-26
1951	7239	211	8617.274	0.009	211.188	211.5	-7.78E-06	-5.57E-06	-9.98E-06	-2838	-2033	-3643	805	805	2.20E-06	2.20E-06	-28
1951	7239	212	8617.207	0.01	212.1887	212.5	-1.21E-05	-7.66E-06	-1.65E-05	-4405	-2796	-6015	1610	1610	4.41E-06	4.41E-06	-37
1951	7239	213	8617.103	0.028	213.1679	213.5	-6.61E-06	-2.20E-06	-1.10E-05	-2414	-805	-4024	1610	1610	4.41E-06	4.41E-06	-67
1951	7239	214	8617.046	0.01	214.1686	214.5	-1.11E-05	-9.86E-06	-1.24E-05	-4066	-3600	-4532	466	466	1.28E-06	1.28E-06	-11
1951	7239	216	8616.854	0.012	216.17	216.5	-1.20E-05	-8.94E-06	-1.50E-05	-4363	-3262	-5464	1101	1101	3.02E-06	3.02E-06	-25
1951	7239	217	8616.751	0.014	217.1707	217.5	-9.23E-06	-7.83E-06	-1.06E-05	-3368	-2859	-3876	508	508	1.39E-06	1.39E-06	-15
1951	7239	219	8616.592	0.01	219.1721	219.5	-7.78E-06	-5.45E-06	-1.01E-05	-2838	-1991	-3685	847	847	2.32E-06	2.32E-06	-30
1951	7239	220	8616.525	0.01	220.1728	220.5	-1.00E-05	-9.47E-06	-1.05E-05	-3652	-3457	-3846	195	195	5.34E-07	5.34E-07	-5
1951	7239	225	8616.094	0.013	225.1762	225.5	6.27E-06	7.20E-06	5.34E-06	2288	2626	1949	339	339	9.28E-07	9.28E-07	15
1951	7239	228	8616.256	0.011	228.1783	228.5	-1.27E-05	-9.75E-06	-1.56E-05	-4617	-3558	-5677	1059	1059	2.90E-06	2.90E-06	-23
1951	7239	229	8616.147	0.014	229.179	229.5	2.24E-05	2.30E-05	2.18E-05	8184	8396	7972	212	212	5.80E-07	5.80E-07	3
1951	7239	234	8617.113	0.011	234.1825	234.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####

7276	1951	142	24638.73	0.012	142.1825	142.5	-7.71E-07	2.03E-07	-1.75E-06	-281	74	-637	356	356	9.74E-07	9.74E-07	-126
7276	1951	143	24638.71	0.012	143.1832	143.5	-8.29E-07	-7.41E-07	-9.17E-07	-302	-270	-335	32	32	8.79E-08	8.79E-08	-11
7276	1951	155	24638.47	0.014	155.17	155.5	-9.74E-07	1.22E-07	-2.07E-06	-356	44	-756	400	400	1.10E-06	1.10E-06	-113
7276	1951	156	24638.44	0.013	156.1707	156.5	-8.12E-07	2.84E-07	-1.91E-06	-296	104	-696	400	400	1.10E-06	1.10E-06	-135
7276	1951	157	24638.42	0.014	157.1714	157.5	-8.52E-07	2.84E-07	-1.99E-06	-311	104	-726	415	415	1.14E-06	1.14E-06	-133
7276	1951	158	24638.4	0.014	158.1721	158.5	-7.71E-07	3.65E-07	-1.91E-06	-281	133	-696	415	415	1.14E-06	1.14E-06	-147
7276	1951	159	24638.38	0.014	159.1728	159.5	-7.71E-07	3.65E-07	-1.91E-06	-281	133	-696	415	415	1.14E-06	1.14E-06	-147
7276	1951	160	24638.36	0.014	160.1734	160.5	-8.12E-07	4.06E-07	-2.03E-06	-296	148	-741	444	444	1.22E-06	1.22E-06	-150
7276	1951	161	24638.34	0.016	161.1741	161.5	-7.71E-07	5.28E-07	-2.07E-06	-281	193	-756	474	474	1.30E-06	1.30E-06	-168
7276	1951	162	24638.32	0.016	162.1748	162.5	-6.90E-07	4.87E-07	-1.87E-06	-252	178	-681	430	430	1.18E-06	1.18E-06	-171
7276	1951	163	24638.31	0.013	163.1755	163.5	-7.71E-07	2.84E-07	-1.83E-06	-281	104	-667	385	385	1.06E-06	1.06E-06	-137
7276	1951	164	24638.29	0.013	164.1762	164.5	-6.09E-07	4.87E-07	-1.70E-06	-222	178	-622	400	400	1.10E-06	1.10E-06	-180
7276	1951	165	24638.27	0.014	165.1769	165.5	-6.49E-07	4.87E-07	-1.79E-06	-237	178	-652	415	415	1.14E-06	1.14E-06	-175
7276	1951	166	24638.26	0.014	166.1776	166.5	-5.28E-07	5.28E-07	-1.58E-06	-193	193	-578	385	385	1.06E-06	1.06E-06	-200
7276	1951	167	24638.24	0.012	167.1783	167.5	-7.31E-07	2.84E-07	-1.75E-06	-267	104	-637	370	370	1.01E-06	1.01E-06	-139
7276	1951	168	24638.23	0.013	168.179	168.5	-4.06E-07	6.49E-07	-1.46E-06	-148	237	-533	385	385	1.06E-06	1.06E-06	-260
7276	1951	169	24638.22	0.013	169.1797	169.5	-6.90E-07	3.25E-07	-1.70E-06	-252	119	-622	370	370	1.01E-06	1.01E-06	-147
7276	1951	170	24638.2	0.012	170.1804	170.5	-5.68E-07	4.06E-07	-1.54E-06	-207	148	-563	356	356	9.74E-07	9.74E-07	-171
7276	1951	171	24638.19	0.012	171.1811	171.5	-4.87E-07	5.28E-07	-1.50E-06	-178	193	-548	370	370	1.01E-06	1.01E-06	-208
7276	1951	172	24638.17	0.013	172.1818	172.5	-1.01E-06	1.22E-07	-2.15E-06	-370	44	-785	415	415	1.14E-06	1.14E-06	-112
7276	1951	173	24638.15	0.015	173.1825	173.5	-4.06E-07	7.71E-07	-1.58E-06	-148	281	-578	430	430	1.18E-06	1.18E-06	-290
7276	1951	174	24638.14	0.014	174.1832	174.5	1.06E-06	2.23E-06	-1.22E-07	385	815	-44	430	430	1.18E-06	1.18E-06	112
7276	1951	175	24638.16	0.015	175.1839	175.5	3.53E-06	4.67E-06	2.39E-06	1289	1704	874	415	415	1.14E-06	1.14E-06	32
7276	1951	176	24638.25	0.013	176.1846	176.5	5.20E-06	6.37E-06	4.02E-06	1896	2326	1467	430	430	1.18E-06	1.18E-06	23
7276	1951	177	24638.38	0.016	177.1853	177.5	5.84E-06	7.06E-06	4.63E-06	2133	2578	1689	444	444	1.22E-06	1.22E-06	21
7276	1951	178	24638.52	0.014	178.1859	178.5	4.26E-06	5.44E-06	3.08E-06	1555	1985	1126	430	430	1.18E-06	1.18E-06	28
7276	1951	179	24638.63	0.015	179.1866	179.5	4.71E-06	5.84E-06	3.57E-06	1718	2133	1304	415	415	1.14E-06	1.14E-06	24
7276	1951	180	24638.74	0.013	180.1873	180.5	2.03E-06	3.04E-06	1.01E-06	741	1111	370	370	370	1.01E-06	1.01E-06	50
7276	1951	181	24638.79	0.012	181.188	181.5	2.48E-06	3.45E-06	1.50E-06	904	1259	548	356	356	9.74E-07	9.74E-07	39
7276	1951	182	24638.86	0.012	182.1679	182.5	4.06E-06	5.07E-06	3.04E-06	1481	1852	1111	370	370	1.01E-06	1.01E-06	25
7276	1951	183	24638.96	0.013	183.1686	183.5	2.64E-06	3.73E-06	1.54E-06	963	1363	563	400	400	1.10E-06	1.10E-06	42
7276	1951	184	24639.02	0.014	184.1693	184.5	-8.12E-08	1.06E-06	-1.22E-06	-30	385	-444	415	415	1.14E-06	1.14E-06	-1400
7276	1951	185	24639.02	0.014	185.17	185.5	-4.46E-07	6.49E-07	-1.54E-06	-163	237	-563	400	400	1.10E-06	1.10E-06	-245
7276	1951	186	24639.01	0.013	186.1707	186.5	7.71E-07	1.79E-06	-2.44E-07	281	652	-89	370	370	1.01E-06	1.01E-06	132
7276	1951	187	24639.03	0.012	187.1714	187.5	1.50E-06	2.52E-06	4.87E-07	548	918	178	370	370	1.01E-06	1.01E-06	68
7276	1951	188	24639.06	0.013	188.1721	188.5	2.72E-06	3.77E-06	1.66E-06	993	1378	607	385	385	1.06E-06	1.06E-06	39
7276	1951	189	24639.13	0.013	189.1728	189.5	7.47E-06	8.64E-06	6.29E-06	2726	3155	2296	430	430	1.18E-06	1.18E-06	16
7276	1951	190	24639.31	0.016	190.1734	190.5	1.92E-05	2.05E-05	1.80E-05	7022	7481	6562	459	459	1.26E-06	1.26E-06	7
7276	1951	191	24639.79	0.015	191.1741	191.5	3.29E-06	4.59E-06	1.99E-06	1200	1674	726	474	474	1.30E-06	1.30E-06	40
7276	1951	192	24639.87	0.017	192.1748	192.5	1.66E-06	2.88E-06	4.46E-07	607	1052	163	444	444	1.22E-06	1.22E-06	73
7276	1951	193	24639.91	0.013	193.1755	193.5	1.62E-07	1.22E-06	-8.93E-07	59	444	-326	385	385	1.06E-06	1.06E-06	650
7276	1951	194	24639.91	0.013	194.1762	194.5	-2.68E-06	-1.54E-06	-3.81E-06	-978	-563	-1392	415	415	1.14E-06	1.14E-06	-42
7276	1951	195	24639.85	0.015	195.1769	195.5	-6.09E-07	6.09E-07	-1.83E-06	-222	222	-667	444	444	1.22E-06	1.22E-06	-200
7276	1951	196	24639.83	0.015	196.1776	196.5	3.65E-07	1.46E-06	-7.31E-07	133	533	-267	400	400	1.10E-06	1.10E-06	300
7276	1951	197	24639.84	0.012	197.1783	197.5	-1.62E-07	7.71E-07	-1.10E-06	-59	281	-400	341	341	9.33E-07	9.33E-07	-575
7276	1951	198	24639.84	0.011	198.179	198.5	5.11E-06	6.05E-06	4.18E-06	1866	2207	1526	341	341	9.33E-07	9.33E-07	18
7276	1951	199	24639.96	0.012	199.1797	199.5	7.31E-07	1.70E-06	-2.44E-07	267	622	-89	356	356	9.74E-07	9.74E-07	133
7276	1951	200	24639.98	0.012	200.1804	200.5	2.84E-07	1.34E-06	-7.71E-07	104	489	-281	385	385	1.06E-06	1.06E-06	371
7276	1951	201	24639.99	0.014	201.1811	201.5	0.00E+00	1.10E-06	-1.10E-06	0	400	-400	400	400	1.10E-06	1.10E-06	#DIV/0!
7276	1951	202	24639.99	0.013	202.1818	202.5	-8.12E-07	1.62E-07	-1.79E-06	-296	59	-652	356	356	9.74E-07	9.74E-07	-120
7276	1951	203	24639.97	0.011	203.1825	203.5	-1.30E-06	-3.65E-07	-2.23E-06	-474	-133	-815	341	341	9.33E-07	9.33E-07	-72
7276	1951	204	24639.94	0.012	204.1832	204.5	1.66E-06	2.64E-06	6.90E-07	607	963	252	356	356	9.74E-07	9.74E-07	59
7276	1951	205	24639.98	0.012	205.1839	205.5	4.06E-07	1.30E-06	-4.87E-07	148	474	-178	326	326	8.93E-07	8.93E-07	220
7276	1951	206	24639.99	0.01	206.1846	206.5	3.65E-07	1.30E-06	-5.68E-07	133	474	-207	341	341	9.33E-07	9.33E-07	256
7276	1951	207	24640	0.013	207.1853	207.5	-7.71E-07	-2.03E-07	-1.34E-06	-281	-74	-489	207	207	5.68E-07	5.68E-07	-74
7276	1951	209	24639.96	0.015	209.1866	209.5	-6.09E-07	5.68E-07	-1.79E-06	-222	207	-652	430	430	1.18E-06	1.18E-06	-193
7276	1951	210	24639.94	0.014	210.1873	210.5	-2.11E-06	-1.14E-06	-3.08E-06	-770	-415	-1126	356	356	9.74E-07	9.74E-07	-46
7276	1951	211	24639.89	0.01	211.188	211.5	-3.65E-07	4.46E-07	-1.18E-06	-133	163	-430	296	296	8.12E-07	8.12E-07	-222
7276	1951	212	24639.88	0.01	212.1887	212.5	-1.70E-06	-8.52E-07	-2.56E-06	-622	-311	-933	311	311	8.52E-07	8.52E-07	-50
7276	1951	213	24639.84	0.011	213.1679	213.5	-1.38E-06	-4.87E-07	-2.27E-06	-504	-178	-830	326	326	8.93E-07	8.93E-07	-65
7276	1951	214	24639.81	0.011	214.1686	214.5	-1.56E-06	-1.10E-06	-2.03E-06	-570	-400	-741	170	170	4.67E-07	4.67E-07	-30
7276	1951	216	24639.73	0.012	216.17	216.5	-1.54E-06	-5.68E-07	-2.52E-06	-563	-207	-918	356	356	9.74E-07	9.74E-07	-63
7276	1951	217	24639.69	0.012	217.1707	217.5	-3.65E-07	6.90E-07	-1.42E-06	-133	252	-518	385	385	1.06E-06	1.06E-06	-289
7276	1951	218	24639.68	0.014	218.1714	218.5	-6.49E-07	4.06E-07	-1.70E-06	-237	148	-622	385	385	1.06E-06	1.06E-06	-163
7276	1951	219	24639.67	0.012	219.1721	219.5	1.38E-06	2.27E-06	4.87E-07	504	830	178	326	326	8.93E-07	8.93E-07	65
7276	1951	220	24639.7	0.01	220.1728	220.5	2.17E-06	2.78E-06	1.56E-06	793	1015	570	222	222	6.09E-07	6.09E-07	28
7276	1951	222	24639.81	0.02	222.1741	222.5	1.46E-06	3.08E-06	-1.62E-07	533	1126	-59	593	593	1.62E-06	1.62E-06	111
7276	1951	223	24639.84	0.02	223.1748	223.5	4.10E-06	5.60E-06	2.60E-06	1496	2044	948	548	548	1.50E-06	1.50E-06	37
7276	1951	224	24639.95	0.017	224.4255	224.5	2.35E-06	3.49E-06	1.22E-06	859	1274	444	415	415	1.14E-06	1.14E-06	48
7276	1951	225	24640	0.011	225.1762	225.5	1.58E-06	2.60E-06	5.68E-07	578	948	207	370	370	1.01E-06	1.01E-06	64
7276	1951	226	24640.04	0.014	226.1769	226.5	-1.50E-06	-2.84E-07	-2.72E-06	-548	-104	-992	444	444	1.22E-06	1.22E-06	-81
7276	1951	227	24640.01	0.016	227.1776	227.5	-6.49E-07	4.87E-07	-1.79E-06	-237	178	-652	415	415	1.14E-06	1.14E-06	-175
7276	1951	228	24639.99	0.012	228.1783	228.5	-1.30E-06	-2.44E-07	-2.35E-06	-474	-89	-859	385	385	1.06E-06	1.06E-06	-81
7276	1951	229	24639.96	0.014	229.179	229.5	1.62E-07	1.22E-06	-8.93E-07	59	444	-326	385	385	1.06E-06	1.06E-06	650
7276	1951	230	24639.96	0.012	230.1797	230.5	-2.11E-06	-1.18E-06	-3.04E-06	-770	-430	-1111	341	341	9.33E-07	9.33E-07	-44
7276	1951	231	24639.91	0.011	231.1804	231.5	1.06E-06	2.23E-06	-1.22E-07	385	815	-44	430	430	1.18E-06	1.18E-06	112
7276	1951	232	24639.94	0.018	232.1811	232.5	8.52E-07	2.07E-06	-3.65E-07	311	755	-133	444	444	1.22E-06	1.22E-06	143
7276	1951	233	24639.96	0.012	233.1818	233.5	-8.93E-07	-4.06E-08	-1.75E-06	-326	-15	-637	311	311	8.52E-07	8.52E-07	-95
7276	1951	234	24639.93	0.009	234.1825	234.5	1.62E-07	1.14E-06	-8.12E-07	59	415	-296	356	356	9.74E-07	9.74E-07	600
7276	1951	235	24639.94	0.015	235.1832	235.5	-9.74E-07	4.06E-08	-1.99E-06	-356	15	-726	370	370	1.01E-06	1.01E-06	-104
7276	1951	236	24639.91	0.01	236.1839	236.5	1.22E-06	2.11E-06	3.25E-07	444	770	119	326	326	8.93E-07	8.93E-07	73
7276	1951	237	24639.94	0.012	237.1846	237.5	-2.84E-07	8.12E-07	-1.38E-06	-104	296	-504	400	400	1.10E-06	1.10E-06	-386
7276	1951	238	24639.94	0.015	238.1853	238.5	2.84E-06	4.22E-06	1.46E-06	1037	1541	533	504	504	1.38E-06	1.38E-06	49
7276	1951	239	24640.01	0.019	239.1859	239.5	1.13E-05	1.25E-05	1.00E-05	4118	4577	3659	459	459	1.26E-06	1.26E-06	11
7276	1951	240	24640.29	0.012	240.1866	240.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1956	1957	142	24481.86	0.013	142.1825	142.5	-9.80E-07	4.08E-08	-2.00E-06	-358	15	-731	373	373	1.02E-06	1.02E-06	-104
1956	1957	143	24481.84	0.012	143.1832	143.5	-1.03E-06	-9.39E-07	-1.12E-06	-375	-343	-408	32	32	8.85E-08	8.85E-08	-9
1956	1957	155	24481.54	0.014	155.17	155.5	-1.02E-06	4.08E-08	-2.08E-06	-373	15	-760	388	388	1.06E-06	1.06E-06	-104
1956	1957	156	24481.51	0.012	156.1707	156.5	-9.80E-07	4.08E-08	-2.00E-06	-358	15	-731	373	373	1.02E-06	1.02E-06	-104
1956	1957	157	24481.49	0.013	157.1714	157.5	-9.80E-07	8.17E-08	-2.04E-06	-358	30	-745	388	388	1.06E-06	1.06E-06	-108
1956	1957	158	24481.47	0.013	158.1721	158.5	-8.99E-07	2.04E-07	-2.00E-06	-328	75	-731	403	403	1.10E-06	1.10E-06	-123
1956	1957	159	24481.44	0.014	159.1728	159.5	-9.39E-07	1.23E-07	-2.00E-06	-343	45	-731	388	388	1.06E-06	1.06E-06	-113
1956	1957	160	24481.42	0.012	160.1734	160.5	-9.39E-07	1.63E-07	-2.04E-06	-343	60	-745	403	403	1.10E-06	1.10E-06	-117
1956	1957	161	24481.4	0.015	161.1741	161.5	-1.06E-06	1.63E-07	-2.29E-06	-388	60	-835	447	447	1.23E-06	1.23E-06	-115
1956	1957	162	24481.37	0.015	162.1748	162.5	-5.31E-07	6.54E-07	-1.72E-06	-194	239	-626	432	432	1.18E-06	1.18E-06	-223
1956	1957	163	24481.36	0.014	163.1755	163.5	-5.72E-07	5.31E-07	-1.67E-06	-209	194	-611	403	403	1.10E-06	1.10E-06	-193
1956	1957	164	24481.34	0.013	164.1762	164.5	-4.90E-07	5.72E-07	-1.55E-06	-179	209	-567	388	388	1.06E-06	1.06E-06	-217
1956	1957	165	24481.33	0.013	165.1769	165.5	-4.90E-07	5.72E-07	-1.55E-06	-179	209	-567	388	388	1.06E-06	1.06E-06	-217
1956	1957	166	24481.32	0.013	166.1776	166.5	-2.86E-07	7.35E-07	-1.31E-06	-104	268	-477	373	373	1.02E-06	1.02E-06	-357
1956	1957	167	24481.31	0.012	167.1783	167.5	-5.31E-07	4.90E-07	-1.55E-06	-194	179	-567	373	373	1.02E-06	1.02E-06	-192
1956	1957	168	24481.3	0.013	168.179	168.5	-4.08E-07	6.94E-07	-1.51E-06	-149	253	-552	403	403	1.10E-06	1.10E-06	-270
1956	1957	169	24481.29	0.014	169.1797	169.5	-1.23E-07	9.39E-07	-1.18E-06	-45	343	-432	388	388	1.06E-06	1.06E-06	-867
1956	1957	170	24481.29	0.012	170.1804	170.5	-5.31E-07	4.49E-07	-1.51E-06	-194	164	-552	358	358	9.80E-07	9.80E-07	-185
1956	1957	171	24481.27	0.012	171.1811	171.5	-5.72E-07	4.49E-07	-1.59E-06	-209	164	-581	373	373	1.02E-06	1.02E-06	-179
1956	1957	172	24481.26	0.013	172.1818	172.5	-3.68E-07	6.94E-07	-1.43E-06	-134	253	-522	388	388	1.06E-06	1.06E-06	-289
1956	1957	173	24481.25	0.013	173.1825	173.5	6.94E-07	1.80E-06	-4.08E-07	253	656	-149	403	403	1.10E-06	1.10E-06	159
1956	1957	174	24481.27	0.014	174.1832	174.5	2.12E-06	3.19E-06	1.06E-06	775	1163	388	388	388	1.06E-06	1.06E-06	50
1956	1957	175	24481.32	0.012	175.1839	175.5	2.66E-06	3.64E-06	1.67E-06	969	1327	611	358	358	9.80E-07	9.80E-07	37
1956	1957	176	24481.39	0.012	176.1846	176.5	7.27E-06	8.33E-06	6.21E-06	2654	3041	2266	388	388	1.06E-06	1.06E-06	15
1956	1957	177	24481.56	0.014	177.1853	177.5	9.23E-06	1.04E-05	8.09E-06	3369	3787	2952	417	417	1.14E-06	1.14E-06	12
1956	1957	178	24481.79	0.014	178.1859	178.5	4.94E-06	6.09E-06	3.80E-06	1804	2221	1387	417	417	1.14E-06	1.14E-06	23
1956	1957	179	24481.91	0.014	179.1866	179.5	4.17E-06	5.27E-06	3.06E-06	1521	1923	1118	403	403	1.10E-06	1.10E-06	26
1956	1957	180	24482.01	0.013	180.1873	180.5	-5.31E-07	5.31E-07	-1.59E-06	-194	194	-581	388	388	1.06E-06	1.06E-06	-200
1956	1957	181	24482	0.013	181.188	181.5	2.49E-06	3.51E-06	1.47E-06	909	1282	537	373	373	1.02E-06	1.02E-06	41
1956	1957	182	24482.06	0.012	182.1679	182.5	2.45E-07	1.27E-06	-7.76E-07	89	462	-283	373	373	1.02E-06	1.02E-06	417
1956	1957	183	24482.07	0.013	183.1686	183.5	1.06E-06	2.16E-06	-4.08E-08	388	790	-15	403	403	1.10E-06	1.10E-06	104
1956	1957	184	24482.09	0.014	184.1693	184.5	-1.67E-06	-5.31E-07	-2.82E-06	-611	-194	-1029	417	417	1.14E-06	1.14E-06	-68
1956	1957	185	24482.05	0.014	185.17	185.5	-1.59E-06	-4.49E-07	-2.74E-06	-581	-164	-999	417	417	1.14E-06	1.14E-06	-72
1956	1957	186	24482.01	0.014	186.1707	186.5	-2.00E-06	-8.99E-07	-3.10E-06	-731	-328	-1133	403	403	1.10E-06	1.10E-06	-55
1956	1957	187	24481.96	0.013	187.1714	187.5	-6.13E-07	4.08E-07	-1.63E-06	-224	149	-596	373	373	1.02E-06	1.02E-06	-167
1956	1957	188	24481.95	0.012	188.1721	188.5	1.10E-06	2.08E-06	1.23E-07	403	760	45	358	358	9.80E-07	9.80E-07	89
1956	1957	189	24481.98	0.012	189.1728	189.5	1.59E-06	2.61E-06	5.72E-07	581	954	209	373	373	1.02E-06	1.02E-06	64
1956	1957	190	24482.01	0.013	190.1734	190.5	1.11E-05	1.23E-05	9.97E-06	4055	4473	3638	417	417	1.14E-06	1.14E-06	10
1956	1957	191	24482.29	0.015	191.1741	191.5	9.11E-06	1.04E-05	7.80E-06	3325	3802	2848	477	477	1.31E-06	1.31E-06	14
1956	1957	192	24482.51	0.017	192.1748	192.5	2.94E-06	4.17E-06	1.72E-06	1073	1521	626	447	447	1.23E-06	1.23E-06	42
1956	1957	193	24482.58	0.013	193.1755	193.5	-4.08E-08	9.39E-07	-1.02E-06	-15	343	-373	358	358	9.80E-07	9.80E-07	-2400
1956	1957	194	24482.58	0.011	194.1762	194.5	-1.10E-06	-8.17E-08	-2.12E-06	-403	-30	-775	373	373	1.02E-06	1.02E-06	-93
1956	1957	195	24482.55	0.014	195.1769	195.5	-2.29E-06	-1.14E-06	-3.43E-06	-835	-417	-1252	417	417	1.14E-06	1.14E-06	-50
1956	1957	196	24482.5	0.014	196.1776	196.5	-1.88E-06	-7.35E-07	-3.02E-06	-686	-268	-1103	417	417	1.14E-06	1.14E-06	-61
1956	1957	197	24482.45	0.014	197.1783	197.5	-1.88E-06	-7.76E-07	-2.98E-06	-686	-283	-1088	403	403	1.10E-06	1.10E-06	-59
1956	1957	198	24482.41	0.013	198.179	198.5	1.10E-06	2.16E-06	4.08E-08	403	790	15	388	388	1.06E-06	1.06E-06	96
1956	1957	199	24482.43	0.013	199.1797	199.5	-9.39E-07	-1.11E-16	-1.88E-06	-343	0	-686	343	343	9.39E-07	9.39E-07	-100
1956	1957	200	24482.41	0.01	200.1804	200.5	4.08E-07	1.31E-06	-4.90E-07	149	477	-179	328	328	8.99E-07	8.99E-07	220
1956	1957	201	24482.42	0.012	201.1811	201.5	-4.90E-07	3.68E-07	-1.35E-06	-179	134	-492	313	313	8.58E-07	8.58E-07	-175
1956	1957	202	24482.41	0.009	202.1818	202.5	-4.08E-08	6.94E-07	-7.76E-07	-15	253	-283	268	268	7.35E-07	7.35E-07	-1800
1956	1957	203	24482.41	0.009	203.1825	203.5	1.23E-06	2.08E-06	3.68E-07	447	760	134	313	313	8.58E-07	8.58E-07	70
1956	1957	204	24482.44	0.012	204.1832	204.5	1.67E-06	2.61E-06	7.35E-07	611	954	268	343	343	9.39E-07	9.39E-07	56
1956	1957	205	24482.48	0.011	205.1839	205.5	1.23E-06	2.12E-06	3.27E-07	447	775	119	328	328	8.99E-07	8.99E-07	73
1956	1957	206	24482.51	0.011	206.1846	206.5	8.17E-08	9.39E-07	-7.76E-07	30	343	-283	313	313	8.58E-07	8.58E-07	1050
1956	1957	207	24482.51	0.01	207.1853	207.5	-8.58E-07	-4.08E-08	-1.67E-06	-313	-15	-611	298	298	8.17E-07	8.17E-07	-95
1956	1957	208	24482.49	0.01	208.1859	208.5	-4.08E-08	1.06E-06	-1.14E-06	-15	388	-417	403	403	1.10E-06	1.10E-06	-2700
1956	1957	209	24482.49	0.017	209.1866	209.5	-5.72E-07	6.54E-07	-1.80E-06	-209	239	-656	447	447	1.23E-06	1.23E-06	-214
1956	1957	210	24482.47	0.013	210.1873	210.5	-1.39E-06	-5.31E-07	-2.25E-06	-507	-194	-820	313	313	8.58E-07	8.58E-07	-62
1956	1957	211	24482.44	0.008	211.188	211.5	7.76E-07	1.51E-06	4.08E-08	283	552	15	268	268	7.35E-07	7.35E-07	95
1956	1957	212	24482.46	0.01	212.1887	212.5	-1.06E-06	-2.86E-07	-1.84E-06	-388	-104	-671	283	283	7.76E-07	7.76E-07	-73
1956	1957	213	24482.43	0.009	213.1679	213.5	-8.58E-07	-1.63E-07	-1.55E-06	-313	-60	-567	253	253	6.94E-07	6.94E-07	-81
1956	1957	214	24482.41	0.008	214.1686	214.5	3.27E-07	7.76E-07	-1.23E-07	119	283	-45	164	164	4.49E-07	4.49E-07	137
1956	1957	216	24482.43	0.014	216.17	216.5	9.80E-07	2.41E-06	-4.49E-07	358	880	-164	522	522	1.43E-06	1.43E-06	146
1956	1957	217	24482.45	0.021	217.1707	217.5	-8.17E-07	6.94E-07	-2.33E-06	-298	253	-850	552	552	1.51E-06	1.51E-06	-185
1956	1957	218	24482.43	0.016	218.1714	218.5	4.49E-07	1.55E-06	-6.54E-07	164	567	-239	403	403	1.10E-06	1.10E-06	245
1956	1957	219	24482.44	0.011	219.1721	219.5	8.99E-07	1.96E-06	-1.63E-07	328	716	-60	388	388	1.06E-06	1.06E-06	118
1956	1957	220	24482.46	0.015	220.1728	220.5	4.46E-06	4.81E-06	4.12E-06	1629	1755	1502	127	127	3.47E-07	3.47E-07	8
1956	1957	224	24482.9	0.019	224.4255	224.5	2.37E-06	3.59E-06	1.14E-06	865	1312	417	447	447	1.23E-06	1.23E-06	52
1956	1957	225	24482.96	0.011	225.1762	225.5	3.84E-06	4.90E-06	2.78E-06	1401	1789	1014	388	388	1.06E-06	1.06E-06	28
1956	1957	226	24483.05	0.015	226.1769	226.5	7.76E-07	2.00E-06	-4.49E-07	283	731	-164	447	447	1.23E-06	1.23E-06	158
1956	1957	227	24483.07	0.015	227.1776	227.5	2.29E-06	3.31E-06	1.27E-06	835	1208	462	373	373	1.02E-06	1.02E-06	45
1956	1957	228	24483.13	0.01	228.1783	228.5	3.88E-06	4.78E-06	2.98E-06	1416	1744	1088	328	328	8.99E-07	8.99E-07	23
1956	1957	229	24483.22	0.012	229.179	229.5	5.11E-06	5.92E-06	4.29E-06	1864	2162	1565	298	298	8.17E-07	8.17E-07	16
1956	1957	230	24483.35	0.008	230.1797	230.5	2.94E-06	3.59E-06	2.29E-06	1073	1312	835	239	239	6.54E-07	6.54E-07	22
1956	1957	231	24483.42	0.008	231.1804	231.5	5.76E-06	6.86E-06	4.66E-06	2102	2505	1700	403	403	1.10E-06	1.10E-06	19
1956	1957	232	24483.56	0.019	232.1811	232.5	7.39E-06	8.58E-06	6.21E-06	2698	3131	2266	432	432	1.18E-06	1.18E-06	16
1956	1957	233	24483.74	0.01	233.1818	233.5	5.96E-06	6.78E-06	5.15E-06	2177	2475	1878	298	298	8.17E-07	8.17E-07	14
1956	1957	234	24483.89	0.01	234.1825	234.5	3.59E-06	4.57E-06	2.61E-06	1312	1670	954	358	358	9.80E-07	9.80E-07	27
1956	1957	235	24483.98	0.014	235.1832	235.5	2.37E-06	3.31E-06	1.43E-06	865	1208	522	343	343	9.39E-07	9.39E-07	40
1956	1957	236	24484.03	0.009	236.1839	236.5	4.90E-06	5.72E-06	4.08E-06	1789	2087	1491	298	298	8.17E-07	8.17E-07	17
1956	1957	237	24484.15	0.011	237.1846	237.5	8.05E-06	9.11E-06	6.98E-06	2937	3324	2549	388	388	1.06E-06	1.06E-06	13
1956	1957	238	24484.35	0.015	238.1853	238.5	2.15E-05	2.22E-05	2.08E-05	7834	8087	7580	253	253	6.94E-07	6.94E-07	3
1956	1957	240	24485.4	0.019	240.1866	240.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1956	7234	142	11687.748	0.013	142.1825	142.5	-8.81E-06	-6.59E-06	-1.10E-05	-3217	-2405	-4029	812	812	2.22E-06	2.22E-06	-25
1956	7234	143	11687.645	0.013	143.1832	143.5	-8.93E-06	-8.75E-06	-9.11E-06	-3258	-3193	-3324	65	65	1.78E-07	1.78E-07	-2
1956	7234	155	11686.393	0.012	155.17	155.5	-9.07E-06	-6.93E-06	-1.12E-05	-3311	-2530	-4092	781	781	2.14E-06	2.14E-06	-24
1956	7234	156	11686.287	0.013	156.1707	156.5	-8.90E-06	-6.67E-06	-1.11E-05	-3248	-2436	-4060	812	812	2.22E-06	2.22E-06	-25
1956	7234	157	11686.183	0.013	157.1714	157.5	-8.81E-06	-6.59E-06	-1.10E-05	-3217	-2405	-4029	812	812	2.22E-06	2.22E-06	-25
1956	7234	158	11686.08	0.013	158.1721	158.5	-8.81E-06	-6.67E-06	-1.10E-05	-3217	-2436	-3998	781	781	2.14E-06	2.14E-06	-24
1956	7234	159	11685.977	0.012	159.1728	159.5	-9.07E-06	-7.10E-06	-1.10E-05	-3311	-2592	-4029	718	718	1.97E-06	1.97E-06	-22
1956	7234	160	11685.871	0.011	160.1734	160.5	-8.90E-06	-6.76E-06	-1.10E-05	-3248	-2468	-4029	781	781	2.14E-06	2.14E-06	-24
1956	7234	161	11685.767	0.014	161.1741	161.5	-9.24E-06	-6.93E-06	-1.16E-05	-3373	-2530	-4217	843	843	2.31E-06	2.31E-06	-25
1956	7234	162	11685.659	0.013	162.1748	162.5	-8.56E-06	-6.33E-06	-1.08E-05	-3124	-2311	-3936	812	812	2.22E-06	2.22E-06	-26
1956	7234	163	11685.559	0.013	163.1755	163.5	-9.07E-06	-6.93E-06	-1.12E-05	-3311	-2530	-4092	781	781	2.14E-06	2.14E-06	-24
1956	7234	164	11685.453	0.012	164.1762	164.5	-8.73E-06	-6.67E-06	-1.08E-05	-3186	-2436	-3936	750	750	2.05E-06	2.05E-06	-24
1956	7234	165	11685.351	0.012	165.1769	165.5	-8.99E-06	-6.93E-06	-1.10E-05	-3280	-2530	-4029	750	750	2.05E-06	2.05E-06	-23
1956	7234	166	11685.246	0.012	166.1776	166.5	-8.64E-06	-6.59E-06	-1.07E-05	-3155	-2405	-3905	750	750	2.05E-06	2.05E-06	-24
1956	7234	167	11685.145	0.012	167.1783	167.5	-8.99E-06	-6.85E-06	-1.11E-05	-3280	-2499	-4061	781	781	2.14E-06	2.14E-06	-24
1956	7234	168	11685.04	0.013	168.179	168.5	-8.13E-06	-6.08E-06	-1.02E-05	-2967	-2218	-3717	750	750	2.05E-06	2.05E-06	-25
1956	7234	169	11684.945	0.011	169.1797	169.5	-8.81E-06	-6.93E-06	-1.07E-05	-3217	-2530	-3905	687	687	1.88E-06	1.88E-06	-21
1956	7234	170	11684.842	0.011	170.1804	170.5	-8.47E-06	-6.68E-06	-1.03E-05	-3092	-2437	-3748	656	656	1.80E-06	1.80E-06	-21
1956	7234	171	11684.743	0.01	171.1811	171.5	-8.56E-06	-6.59E-06	-1.05E-05	-3124	-2405	-3842	718	718	1.97E-06	1.97E-06	-23
1956	7234	172	11684.643	0.013	172.1818	172.5	-8.82E-06	-6.59E-06	-1.10E-05	-3217	-2405	-4030	812	812	2.23E-06	2.23E-06	-25
1956	7234	173	11684.54	0.013	173.1825	173.5	-8.64E-06	-6.50E-06	-1.08E-05	-3155	-2374	-3936	781	781	2.14E-06	2.14E-06	-25
1956	7234	174	11684.439	0.012	174.1832	174.5	-8.30E-06	-6.33E-06	-1.03E-05	-3030	-2312	-3749	718	718	1.97E-06	1.97E-06	-24
1956	7234	175	11684.342	0.011	175.1839	175.5	-6.93E-06	-4.96E-06	-8.90E-06	-2530	-1812	-3249	718	718	1.97E-06	1.97E-06	-28
1956	7234	176	11684.261	0.012	176.1846	176.5	-4.28E-06	-2.23E-06	-6.33E-06	-1562	-812	-2312	750	750	2.05E-06	2.05E-06	-48
1956	7234	177	11684.211	0.012	177.1853	177.5	-3.94E-06	-1.88E-06	-5.99E-06	-1437	-687	-2187	750	750	2.05E-06	2.05E-06	-52
1956	7234	178	11684.165	0.012	178.1859	178.5	-3.25E-06	-1.03E-06	-5.48E-06	-1187	-375	-1999	812	812	2.23E-06	2.23E-06	-68
1956	7234	179	11684.127	0.014	179.1866	179.5	-3.51E-06	-1.37E-06	-5.65E-06	-1281	-500	-2062	781	781	2.14E-06	2.14E-06	-61
1956	7234	180	11684.086	0.011	180.1873	180.5	-8.22E-06	-6.16E-06	-1.03E-05	-2999	-2249	-3749	750	750	2.05E-06	2.05E-06	-25
1956	7234	181	11683.99	0.013	181.188	181.5	-8.13E-06	-6.16E-06	-1.01E-05	-2968	-2249	-3686	719	719	1.97E-06	1.97E-06	-24
1956	7234	182	11683.895	0.01	182.1679	182.5	-9.24E-06	-7.36E-06	-1.11E-05	-3374	-2687	-4061	687	687	1.88E-06	1.88E-06	-20
1956	7234	183	11683.787	0.012	183.1686	183.5	-7.96E-06	-5.91E-06	-1.00E-05	-2905	-2156	-3655	750	750	2.05E-06	2.05E-06	-26
1956	7234	184	11683.694	0.012	184.1693	184.5	-6.76E-06	-4.71E-06	-8.82E-06	-2468	-1718	-3218	750	750	2.05E-06	2.05E-06	-30
1956	7234	185	11683.615	0.012	185.17	185.5	-7.70E-06	-5.65E-06	-9.76E-06	-2812	-2062	-3561	750	750	2.05E-06	2.05E-06	-27
1956	7234	186	11683.525	0.012	186.1707	186.5	-9.42E-06	-7.28E-06	-1.16E-05	-3436	-2655	-4217	781	781	2.14E-06	2.14E-06	-23
1956	7234	187	11683.415	0.013	187.1714	187.5	-8.05E-06	-5.99E-06	-1.01E-05	-2937	-2187	-3686	750	750	2.05E-06	2.05E-06	-26
1956	7234	188	11683.321	0.011	188.1721	188.5	-7.10E-06	-5.22E-06	-8.99E-06	-2593	-1906	-3280	687	687	1.88E-06	1.88E-06	-27
1956	7234	189	11683.238	0.011	189.1728	189.5	-5.82E-06	-3.85E-06	-7.79E-06	-2124	-1406	-2843	719	719	1.97E-06	1.97E-06	-34
1956	7234	190	11683.17	0.012	190.1734	190.5	1.16E-05	1.40E-05	9.24E-06	4249	5124	3374	875	875	2.40E-06	2.40E-06	21
1956	7234	191	11683.306	0.016	191.1741	191.5	-1.21E-05	-9.42E-06	-1.47E-05	-4405	-3437	-5374	968	968	2.65E-06	2.65E-06	-22
1956	7234	192	11683.165	0.015	192.1748	192.5	-8.30E-06	-5.99E-06	-1.06E-05	-3030	-2187	-3874	844	844	2.31E-06	2.31E-06	-28
1956	7234	193	11683.068	0.012	193.1755	193.5	-9.76E-06	-7.70E-06	-1.18E-05	-3562	-2812	-4311	750	750	2.05E-06	2.05E-06	-21
1956	7234	194	11682.954	0.012	194.1762	194.5	-9.76E-06	-7.62E-06	-1.19E-05	-3562	-2781	-4343	781	781	2.14E-06	2.14E-06	-22
1956	7234	195	11682.84	0.013	195.1769	195.5	-1.06E-05	-8.30E-06	-1.29E-05	-3874	-3031	-4718	844	844	2.31E-06	2.31E-06	-22
1956	7234	196	11682.716	0.014	196.1776	196.5	-8.90E-06	-6.76E-06	-1.10E-05	-3249	-2468	-4030	781	781	2.14E-06	2.14E-06	-24
1956	7234	197	11682.612	0.011	197.1783	197.5	-9.93E-06	-8.05E-06	-1.18E-05	-3624	-2937	-4312	687	687	1.88E-06	1.88E-06	-19
1956	7234	198	11682.496	0.011	198.179	198.5	-5.22E-06	-3.51E-06	-6.93E-06	-1906	-1281	-2531	625	625	1.71E-06	1.71E-06	-33
1956	7234	199	11682.435	0.009	199.1797	199.5	-9.07E-06	-7.45E-06	-1.07E-05	-3312	-2718	-3905	594	594	1.63E-06	1.63E-06	-18
1956	7234	200	11682.329	0.01	200.1804	200.5	-7.70E-06	-5.82E-06	-9.59E-06	-2812	-2125	-3499	687	687	1.88E-06	1.88E-06	-24
1956	7234	201	11682.239	0.012	201.1811	201.5	-9.16E-06	-7.28E-06	-1.10E-05	-3343	-2656	-4030	687	687	1.88E-06	1.88E-06	-21
1956	7234	202	11682.132	0.01	202.1818	202.5	-7.96E-06	-6.33E-06	-9.59E-06	-2906	-2312	-3499	594	594	1.63E-06	1.63E-06	-20
1956	7234	203	11682.039	0.009	203.1825	203.5	-6.08E-06	-4.45E-06	-7.70E-06	-2218	-1625	-2812	594	594	1.63E-06	1.63E-06	-27
1956	7234	204	11681.968	0.01	204.1832	204.5	-5.74E-06	-4.11E-06	-7.36E-06	-2093	-1500	-2687	594	594	1.63E-06	1.63E-06	-28
1956	7234	205	11681.901	0.009	205.1839	205.5	-7.19E-06	-5.65E-06	-8.73E-06	-2625	-2062	-3187	562	562	1.54E-06	1.54E-06	-21
1956	7234	206	11681.817	0.009	206.1846	206.5	-8.30E-06	-6.76E-06	-9.84E-06	-3031	-2468	-3593	562	562	1.54E-06	1.54E-06	-19
1956	7234	207	11681.72	0.009	207.1853	207.5	-9.29E-06	-8.43E-06	-1.01E-05	-3390	-3078	-3703	312	312	8.56E-07	8.56E-07	-9
1956	7234	209	11681.503	0.011	209.1866	209.5	-8.73E-06	-6.76E-06	-1.07E-05	-3187	-2468	-3906	719	719	1.97E-06	1.97E-06	-23
1956	7234	210	11681.401	0.012	210.1873	210.5	-9.33E-06	-7.62E-06	-1.10E-05	-3406	-2781	-4031	625	625	1.71E-06	1.71E-06	-18
1956	7234	211	11681.292	0.008	211.188	211.5	-8.56E-06	-7.11E-06	-1.00E-05	-3125	-2593	-3656	531	531	1.46E-06	1.46E-06	-17
1956	7234	212	11681.192	0.009	212.1887	212.5	-9.93E-06	-8.30E-06	-1.16E-05	-3625	-3031	-4218	594	594	1.63E-06	1.63E-06	-16
1956	7234	213	11681.076	0.01	213.1679	213.5	-9.25E-06	-7.62E-06	-1.09E-05	-3375	-2781	-3968	594	594	1.63E-06	1.63E-06	-18
1956	7234	214	11680.968	0.009	214.1686	214.5	-9.59E-06	-8.78E-06	-1.04E-05	-3500	-3203	-3797	297	297	8.13E-07	8.13E-07	-8
1956	7234	216	11680.744	0.01	216.17	216.5	-8.99E-06	-7.02E-06	-1.10E-05	-3281	-2562	-4000	719	719	1.97E-06	1.97E-06	-22
1956	7234	217	11680.639	0.013	217.1707	217.5	-6.93E-06	-4.71E-06	-9.16E-06	-2531	-1719	-3344	812	812	2.23E-06	2.23E-06	-32
1956	7234	218	11680.558	0.013	218.1714	218.5	-6.68E-06	-4.79E-06	-8.56E-06	-2437	-1750	-3125	687	687	1.88E-06	1.88E-06	-28
1956	7234	219	11680.48	0.009	219.1721	219.5	-7.36E-06	-5.82E-06	-8.90E-06	-2687	-2125	-3250	562	562	1.54E-06	1.54E-06	-21
1956	7234	220	11680.394	0.009	220.1728	220.5	-7.19E-06	-6.08E-06	-8.30E-06	-2625	-2219	-3031	406	406	1.11E-06	1.11E-06	-15
1956	7234	222	11680.226	0.017	222.1741	222.5	-3.77E-06	-5.14E-07	-7.02E-06	-1375	-187	-2562	1187	1187	3.25E-06	3.25E-06	-86
1956	7234	223	11680.182	0.021	223.1748	223.5	-6.42E-06	-3.51E-06	-9.33E-06	-2344	-1281	-3406	1062	1062	2.91E-06	2.91E-06	-45
1956	7234	224	11680.107	0.013	224.4255	224.5	-3.85E-06	-1.88E-06	-5.82E-06	-1406	-687	-2125	719	719	1.97E-06	1.97E-06	-51
1956	7234	225	11680.062	0.01	225.1762	225.5	-7.28E-06	-5.31E-06	-9.25E-06	-2656	-1937	-3375	719	719	1.97E-06	1.97E-06	-27
1956	7234	226	11679.977	0.013	226.1769	226.5	-9.85E-06	-7.62E-06	-1.21E-05	-3594	-2781	-4406	813	813	2.23E-06	2.23E-06	-23
1956	7234	227	11679.862	0.013	227.1776	227.5	-8.65E-06	-6.76E-06	-1.05E-05	-3156	-2469	-3844	688	688	1.88E-06	1.88E-06	-22
1956	7234	228	11679.761	0.009	228.1783	228.5	-1.00E-05	-8.39E-06	-1.16E-05	-3656	-3063	-4250	594	594	1.63E-06	1.63E-06	-16
1956	7234	229	11679.644	0.01	229.179	229.5	-8.31E-06	-6.68E-06	-9.93E-06	-3031	-2438	-3625	594	594	1.63E-06	1.63E-06	-20
1956	7234	230	11679.547	0.009	230.1797	230.5	-9.76E-06	-8.13E-06	-1.14E-05	-3563	-2969	-4156	594	594	1.63E-06	1.63E-06	-17
1956	7234	231	11679.433	0.01	231.1804	231.5	-1.00E-05	-7.79E-06	-1.22E-05	-3656	-2844	-4469	813	813	2.23E-06	2.23E-06	-22
1956	7234	232	11679.316	0.016	232.1811	232.5	-7.19E-06	-4.88E-06	-9.50E-06	-2625	-1781	-3469	844	844	2.31E-06	2.31E-06	-32
1956	7234	233	11679.232	0.011	233.1818	233.5	-8.82E-06	-7.11E-06	-1.05E-05	-3219	-2594	-3844	625	625	1.71E-06	1.71E-06	-19
1956	7234	234	11679.129	0.009	234.1825	234.5	-9.76E-06	-7.96E-06	-1.16E-05	-3563	-2906	-4219	656	656	1.80E-06	1.80E-06	-18
1956	7234	235	11679.015	0.012	235.1832	235.5	-1.04E-05	-8.65E-06	-1.22E-05	-3813	-3157	-4469	656	656	1.80E-06	1.80E-06	-17
1956	7234	236	11678.893	0.009	236.1839	236.5	-9.68E-06	-8.05E-06	-1.13E-05	-3532	-2938	-4125	594	594	1.63E-06	1.63E-06	-17
1956	7234	237	11678.78	0.01	237.1846	237.5	-1.02E-05	-8.31E-06	-1.21E-05	-3719	-3032	-4407	688	688	1.88E-06	1.88E-06	-18
1956	7234	238	11678.661	0.012	238.1853	238.5	-6.59E-06	-4.20E-06	-8.99E-06	-2407	-1531	-3282	875	875	2.40E-06	2.40E-06	-36
1956	7234	239	11678.584	0.016	239.1859	239.5	-3.08E-06	-6.85E-07	-5.48E-06	-1125	-250	-2000	875	875	2.40E-06	2.40E-06	-78
1956	7234	240	11678.548	0.012	240.1866	240.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1956	7237	142	25438.76	0.013	142.1825	142.5	-4.80E-06	-3.81E-06	-5.78E-06	-1750	-1392	-2109	359	359	9.83E-07	9.83E-07	-20
1956	7237	143	25438.64	0.012	143.1832	143.5	-4.90E-06	-4.82E-06	-4.99E-06	-1789	-1758	-1820	31	31	8.52E-08	8.52E-08	-2
1956	7237	155	25437.14	0.014	155.17	155.5	-4.91E-06	-3.85E-06	-5.98E-06	-1794	-1406	-2181	387	387	1.06E-06	1.06E-06	-22
1956	7237	156	25437.02	0.013	156.1707	156.5	-4.91E-06	-3.85E-06	-5.98E-06	-1794	-1406	-2181	387	387	1.06E-06	1.06E-06	-22
1956	7237	157	25436.89	0.014	157.1714	157.5	-4.80E-06	-3.70E-06	-5.90E-06	-1751	-1349	-2152	402	402	1.10E-06	1.10E-06	-23
1956	7237	158	25436.77	0.014	158.1721	158.5	-4.76E-06	-3.62E-06	-5.90E-06	-1736	-1320	-2152	416	416	1.14E-06	1.14E-06	-24
1956	7237	159	25436.65	0.015	159.1728	159.5	-4.76E-06	-3.54E-06	-5.98E-06	-1736	-1291	-2181	445	445	1.22E-06	1.22E-06	-26
1956	7237	160	25436.53	0.016	160.1734	160.5	-4.80E-06	-3.50E-06	-6.09E-06	-1751	-1277	-2224	474	474	1.30E-06	1.30E-06	-27
1956	7237	161	25436.41	0.017	161.1741	161.5	-4.87E-06	-3.54E-06	-6.21E-06	-1779	-1291	-2267	488	488	1.34E-06	1.34E-06	-27
1956	7237	162	25436.28	0.017	162.1748	162.5	-4.36E-06	-3.11E-06	-5.62E-06	-1593	-1134	-2052	459	459	1.26E-06	1.26E-06	-29
1956	7237	163	25436.17	0.015	163.1755	163.5	-4.32E-06	-3.18E-06	-5.46E-06	-1578	-1162	-1995	416	416	1.14E-06	1.14E-06	-26
1956	7237	164	25436.06	0.014	164.1762	164.5	-3.93E-06	-2.79E-06	-5.07E-06	-1435	-1019	-1851	416	416	1.14E-06	1.14E-06	-29
1956	7237	165	25435.96	0.015	165.1769	165.5	-3.66E-06	-2.48E-06	-4.84E-06	-1335	-904	-1765	430	430	1.18E-06	1.18E-06	-32
1956	7237	166	25435.87	0.015	166.1776	166.5	-3.73E-06	-2.59E-06	-4.88E-06	-1363	-947	-1779	416	416	1.14E-06	1.14E-06	-31
1956	7237	167	25435.77	0.014	167.1783	167.5	-4.21E-06	-3.07E-06	-5.35E-06	-1535	-1119	-1952	416	416	1.14E-06	1.14E-06	-27
1956	7237	168	25435.67	0.015	168.179	168.5	-3.58E-06	-2.40E-06	-4.76E-06	-1306	-875	-1736	430	430	1.18E-06	1.18E-06	-33
1956	7237	169	25435.58	0.015	169.1797	169.5	-3.81E-06	-2.67E-06	-4.95E-06	-1392	-976	-1808	416	416	1.14E-06	1.14E-06	-30
1956	7237	170	25435.48	0.014	170.1804	170.5	-3.89E-06	-2.83E-06	-4.95E-06	-1421	-1033	-1808	387	387	1.06E-06	1.06E-06	-27
1956	7237	171	25435.38	0.013	171.1811	171.5	-3.89E-06	-2.79E-06	-4.99E-06	-1421	-1019	-1822	402	402	1.10E-06	1.10E-06	-28
1956	7237	172	25435.28	0.015	172.1818	172.5	-3.81E-06	-2.63E-06	-4.99E-06	-1392	-961	-1822	431	431	1.18E-06	1.18E-06	-31
1956	7237	173	25435.18	0.015	173.1825	173.5	-3.15E-06	-2.01E-06	-4.29E-06	-1148	-732	-1564	416	416	1.14E-06	1.14E-06	-36
1956	7237	174	25435.1	0.014	174.1832	174.5	-1.53E-06	-5.11E-07	-2.56E-06	-560	-187	-933	373	373	1.02E-06	1.02E-06	-67
1956	7237	175	25435.07	0.012	175.1839	175.5	-1.49E-06	-5.11E-07	-2.48E-06	-545	-187	-904	359	359	9.83E-07	9.83E-07	-66
1956	7237	176	25435.03	0.013	176.1846	176.5	7.47E-07	1.81E-06	-3.15E-07	273	660	-115	387	387	1.06E-06	1.06E-06	142
1956	7237	177	25435.05	0.014	177.1853	177.5	-6.68E-07	3.93E-07	-1.73E-06	-244	144	-631	387	387	1.06E-06	1.06E-06	-159
1956	7237	178	25435.03	0.013	178.1859	178.5	-1.42E-06	-3.93E-07	-2.44E-06	-517	-144	-890	373	373	1.02E-06	1.02E-06	-72
1956	7237	179	25434.99	0.013	179.1866	179.5	-1.85E-06	-8.26E-07	-2.87E-06	-674	-301	-1048	373	373	1.02E-06	1.02E-06	-55
1956	7237	180	25434.95	0.013	180.1873	180.5	-6.09E-06	-5.07E-06	-7.12E-06	-2224	-1851	-2597	373	373	1.02E-06	1.02E-06	-17
1956	7237	181	25434.79	0.013	181.188	181.5	-4.36E-06	-3.42E-06	-5.31E-06	-1593	-1248	-1937	344	344	9.44E-07	9.44E-07	-22
1956	7237	182	25434.68	0.011	182.1679	182.5	-7.67E-06	-6.72E-06	-8.61E-06	-2798	-2454	-3143	344	344	9.44E-07	9.44E-07	-12
1956	7237	183	25434.49	0.013	183.1686	183.5	-5.31E-06	-4.29E-06	-6.33E-06	-1937	-1564	-2310	373	373	1.02E-06	1.02E-06	-19
1956	7237	184	25434.35	0.013	184.1693	184.5	-5.86E-06	-4.80E-06	-6.92E-06	-2138	-1751	-2526	387	387	1.06E-06	1.06E-06	-18
1956	7237	185	25434.2	0.014	185.17	185.5	-5.94E-06	-4.84E-06	-7.04E-06	-2167	-1765	-2569	402	402	1.10E-06	1.10E-06	-19
1956	7237	186	25434.05	0.014	186.1707	186.5	-6.64E-06	-5.54E-06	-7.75E-06	-2425	-2023	-2827	402	402	1.10E-06	1.10E-06	-17
1956	7237	187	25433.88	0.014	187.1714	187.5	-5.54E-06	-4.52E-06	-6.57E-06	-2023	-1650	-2397	373	373	1.02E-06	1.02E-06	-18
1956	7237	188	25433.74	0.012	188.1721	188.5	-4.48E-06	-3.58E-06	-5.39E-06	-1636	-1306	-1966	330	330	9.04E-07	9.04E-07	-20
1956	7237	189	25433.63	0.011	189.1728	189.5	-5.35E-06	-4.36E-06	-6.33E-06	-1952	-1593	-2311	359	359	9.83E-07	9.83E-07	-18
1956	7237	190	25433.49	0.014	190.1734	190.5	-2.67E-06	-1.53E-06	-3.81E-06	-976	-560	-1392	416	416	1.14E-06	1.14E-06	-43
1956	7237	191	25433.42	0.015	191.1741	191.5	-1.77E-06	-5.90E-07	-2.95E-06	-646	-215	-1076	431	431	1.18E-06	1.18E-06	-67
1956	7237	192	25433.38	0.015	192.1748	192.5	-3.07E-06	-1.97E-06	-4.17E-06	-1119	-718	-1521	402	402	1.10E-06	1.10E-06	-36
1956	7237	193	25433.3	0.013	193.1755	193.5	-5.15E-06	-4.17E-06	-6.13E-06	-1880	-1521	-2239	359	359	9.83E-07	9.83E-07	-19
1956	7237	194	25433.17	0.012	194.1762	194.5	-5.82E-06	-4.84E-06	-6.80E-06	-2124	-1765	-2483	359	359	9.83E-07	9.83E-07	-17
1956	7237	195	25433.02	0.013	195.1769	195.5	-6.47E-06	-6.00E-06	-6.94E-06	-2361	-2189	-2533	172	172	4.72E-07	4.72E-07	-7
1956	7237	197	25432.69	0.011	197.1783	197.5	-6.33E-06	-5.43E-06	-7.23E-06	-2311	-1981	-2641	330	330	9.04E-07	9.04E-07	-14
1956	7237	198	25432.53	0.012	198.179	198.5	-4.44E-06	-3.54E-06	-5.35E-06	-1622	-1292	-1952	330	330	9.04E-07	9.04E-07	-20
1956	7237	199	25432.42	0.011	199.1797	199.5	-6.33E-06	-5.47E-06	-7.20E-06	-2311	-1995	-2626	316	316	8.65E-07	8.65E-07	-14
1956	7237	200	25432.26	0.011	200.1804	200.5	-4.95E-06	-4.01E-06	-5.90E-06	-1808	-1464	-2153	344	344	9.44E-07	9.44E-07	-19
1956	7237	201	25432.13	0.013	201.1811	201.5	-5.27E-06	-4.33E-06	-6.21E-06	-1923	-1579	-2268	344	344	9.44E-07	9.44E-07	-18
1956	7237	202	25432	0.011	202.1818	202.5	-4.76E-06	-3.93E-06	-5.58E-06	-1737	-1435	-2038	301	301	8.26E-07	8.26E-07	-17
1956	7237	203	25431.88	0.01	203.1825	203.5	-3.54E-06	-2.63E-06	-4.44E-06	-1292	-962	-1622	330	330	9.04E-07	9.04E-07	-26
1956	7237	204	25431.79	0.013	204.1832	204.5	-3.34E-06	-2.44E-06	-4.25E-06	-1220	-890	-1550	330	330	9.04E-07	9.04E-07	-27
1956	7237	205	25431.7	0.01	205.1839	205.5	-3.58E-06	-2.75E-06	-4.40E-06	-1306	-1005	-1607	301	301	8.26E-07	8.26E-07	-23
1956	7237	206	25431.61	0.011	206.1846	206.5	-4.68E-06	-3.81E-06	-5.54E-06	-1708	-1392	-2024	316	316	8.65E-07	8.65E-07	-18
1956	7237	207	25431.49	0.011	207.1853	207.5	-5.03E-06	-4.21E-06	-5.86E-06	-1837	-1536	-2138	301	301	8.26E-07	8.26E-07	-16
1956	7237	208	25431.36	0.01	208.1859	208.5	-4.44E-06	-3.50E-06	-5.39E-06	-1622	-1277	-1966	344	344	9.44E-07	9.44E-07	-21
1956	7237	209	25431.25	0.014	209.1866	209.5	-4.52E-06	-3.46E-06	-5.58E-06	-1651	-1263	-2038	388	388	1.06E-06	1.06E-06	-23
1956	7237	210	25431.13	0.013	210.1873	210.5	-5.11E-06	-4.21E-06	-6.02E-06	-1866	-1536	-2196	330	330	9.04E-07	9.04E-07	-18
1956	7237	211	25431	0.01	211.188	211.5	-3.54E-06	-2.71E-06	-4.36E-06	-1292	-990	-1593	301	301	8.26E-07	8.26E-07	-23
1956	7237	212	25430.91	0.011	212.1887	212.5	-4.72E-06	-3.85E-06	-5.58E-06	-1722	-1407	-2038	316	316	8.65E-07	8.65E-07	-18
1956	7237	213	25430.79	0.011	213.1679	213.5	-4.44E-06	-3.62E-06	-5.27E-06	-1622	-1320	-1923	301	301	8.26E-07	8.26E-07	-19
1956	7237	214	25430.68	0.01	214.1686	214.5	-7.90E-06	-7.08E-06	-8.73E-06	-2885	-2584	-3186	301	301	8.26E-07	8.26E-07	-10
1956	7237	216	25430.48	0.011	216.17	216.5	-4.09E-06	-3.07E-06	-5.11E-06	-1493	-1120	-1866	373	373	1.02E-06	1.02E-06	-25
1956	7237	217	25430.38	0.015	217.1707	217.5	-3.85E-06	-2.71E-06	-4.99E-06	-1407	-990	-1823	416	416	1.14E-06	1.14E-06	-30
1956	7237	218	25430.28	0.014	218.1714	218.5	-2.79E-06	-1.81E-06	-3.78E-06	-1019	-660	-1378	359	359	9.83E-07	9.83E-07	-35
1956	7237	219	25430.21	0.011	219.1721	219.5	-3.93E-06	-3.03E-06	-4.84E-06	-1435	-1105	-1765	330	330	9.04E-07	9.04E-07	-23
1956	7237	220	25430.11	0.012	220.1728	220.5	-2.60E-06	-1.97E-06	-3.22E-06	-947	-718	-1177	230	230	6.29E-07	6.29E-07	-24
1956	7237	222	25429.98	0.02	222.1741	222.5	-2.99E-06	-1.18E-06	-4.80E-06	-1091	-431	-1751	660	660	1.81E-06	1.81E-06	-61
1956	7237	223	25429.9	0.026	223.1748	223.5	-4.64E-06	-2.99E-06	-6.29E-06	-1694	-1091	-2297	603	603	1.65E-06	1.65E-06	-36
1956	7237	224	25429.78	0.016	224.4255	224.5	-3.66E-06	-2.56E-06	-4.76E-06	-1335	-933	-1737	402	402	1.10E-06	1.10E-06	-30
1956	7237	225	25429.69	0.012	225.1762	225.5	-4.52E-06	-3.46E-06	-5.58E-06	-1651	-1263	-2038	388	388	1.06E-06	1.06E-06	-23
1956	7237	226	25429.57	0.015	226.1769	226.5	-4.80E-06	-3.58E-06	-6.02E-06	-1751	-1306	-2196	445	445	1.22E-06	1.22E-06	-25
1956	7237	227	25429.45	0.016	227.1776	227.5	-5.98E-06	-4.95E-06	-7.00E-06	-2182	-1809	-2555	373	373	1.02E-06	1.02E-06	-17
1956	7237	228	25429.3	0.01	228.1783	228.5	-4.99E-06	-4.13E-06	-5.86E-06	-1823	-1507	-2139	316	316	8.65E-07	8.65E-07	-17
1956	7237	229	25429.17	0.012	229.179	229.5	-1.30E-06	-4.33E-07	-2.16E-06	-474	-158	-789	316	316	8.65E-07	8.65E-07	-67
1956	7237	230	25429.14	0.01	230.1797	230.5	-3.70E-06	-2.95E-06	-4.44E-06	-1349	-1077	-1622	273	273	7.47E-07	7.47E-07	-20
1956	7237	231	25429.05	0.009	231.1804	231.5	-1.30E-06	-1.97E-07	-2.40E-06	-474	-72	-876	402	402	1.10E-06	1.10E-06	-85
1956	7237	232	25429.01	0.019	232.1811	232.5	4.72E-07	1.65E-06	-7.08E-07	172	603	-258	431	431	1.18E-06	1.18E-06	250
1956	7237	233	25429.02	0.011	233.1818	233.5	7.87E-08	9.04E-07	-7.47E-07	29	330	-273	301	301	8.26E-07	8.26E-07	1050
1956	7237	234	25429.03	0.01	234.1825	234.5	-2.24E-06	-1.38E-06	-3.11E-06	-818	-502	-1134	316	316	8.65E-07	8.65E-07	-39
1956	7237	235	25428.97	0.012	235.1832	235.5	2.36E-07	1.10E-06	-6.29E-07	86	402	-230	316	316	8.65E-07	8.65E-07	367
1956	7237	236	25428.98	0.01	236.1839	236.5	2.60E-06	3.42E-06	1.77E-06	947	1249	646	301	301	8.26E-07	8.26E-07	32
1956	7237	237	25429.04	0.011	237.1846	237.5	2.56E-06	3.70E-06	1.42E-06	933	1349	517	416	416	1.14E-06	1.14E-06	45
1956	7237	238	25429.11	0.018	238.1853	238.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	

1956	7239	142	10264.324	0.01	142.1825	142.5	9.16E-06	1.10E-05	7.31E-06	3343	4018	2667	676	676	1.85E-06	1.85E-06	20
1956	7239	143	10264.418	0.009	143.1832	143.5	9.13E-06	9.30E-06	8.97E-06	3334	3393	3274	59	59	1.62E-07	1.62E-07	2
1956	7239	155	10265.543	0.011	155.17	155.5	9.06E-06	1.12E-05	6.92E-06	3307	4089	2524	782	782	2.14E-06	2.14E-06	24
1956	7239	156	10265.636	0.011	156.1707	156.5	9.35E-06	1.15E-05	7.21E-06	3413	4196	2631	782	782	2.14E-06	2.14E-06	23
1956	7239	157	10265.732	0.011	157.1714	157.5	8.96E-06	1.12E-05	6.72E-06	3271	4089	2453	818	818	2.24E-06	2.24E-06	25
1956	7239	158	10265.824	0.012	158.1721	158.5	9.35E-06	1.16E-05	7.11E-06	3413	4231	2595	818	818	2.24E-06	2.24E-06	24
1956	7239	159	10265.92	0.011	159.1728	159.5	9.06E-06	1.12E-05	6.92E-06	3307	4089	2524	782	782	2.14E-06	2.14E-06	24
1956	7239	160	10266.013	0.011	160.1734	160.5	9.16E-06	1.14E-05	6.92E-06	3342	4160	2524	818	818	2.24E-06	2.24E-06	24
1956	7239	161	10266.107	0.012	161.1741	161.5	8.96E-06	1.13E-05	6.62E-06	3271	4124	2418	853	853	2.34E-06	2.34E-06	26
1956	7239	162	10266.199	0.012	162.1748	162.5	9.35E-06	1.16E-05	7.11E-06	3413	4231	2595	818	818	2.24E-06	2.24E-06	24
1956	7239	163	10266.295	0.011	163.1755	163.5	9.16E-06	1.13E-05	7.01E-06	3342	4124	2560	782	782	2.14E-06	2.14E-06	23
1956	7239	164	10266.389	0.011	164.1762	164.5	9.06E-06	1.12E-05	6.92E-06	3306	4089	2524	782	782	2.14E-06	2.14E-06	24
1956	7239	165	10266.482	0.011	165.1769	165.5	9.16E-06	1.13E-05	7.01E-06	3342	4124	2560	782	782	2.14E-06	2.14E-06	23
1956	7239	166	10266.576	0.011	166.1776	166.5	9.16E-06	1.12E-05	7.11E-06	3342	4088	2595	747	747	2.05E-06	2.05E-06	22
1956	7239	167	10266.67	0.01	167.1783	167.5	9.16E-06	1.12E-05	7.11E-06	3342	4088	2595	747	747	2.05E-06	2.05E-06	22
1956	7239	168	10266.764	0.011	168.179	168.5	9.35E-06	1.15E-05	7.21E-06	3413	4195	2631	782	782	2.14E-06	2.14E-06	23
1956	7239	169	10266.86	0.011	169.1797	169.5	9.06E-06	1.12E-05	6.92E-06	3306	4088	2524	782	782	2.14E-06	2.14E-06	24
1956	7239	170	10266.953	0.011	170.1804	170.5	9.25E-06	1.13E-05	7.21E-06	3377	4124	2631	747	747	2.05E-06	2.05E-06	22
1956	7239	171	10267.048	0.01	171.1811	171.5	9.64E-06	1.17E-05	7.60E-06	3519	4266	2773	747	747	2.05E-06	2.05E-06	21
1956	7239	172	10267.147	0.011	172.1818	172.5	8.77E-06	1.10E-05	6.53E-06	3200	4017	2382	818	818	2.24E-06	2.24E-06	26
1956	7239	173	10267.237	0.012	173.1825	173.5	9.16E-06	1.14E-05	6.92E-06	3342	4159	2524	818	818	2.24E-06	2.24E-06	24
1956	7239	174	10267.331	0.011	174.1832	174.5	9.54E-06	1.17E-05	7.40E-06	3484	4266	2702	782	782	2.14E-06	2.14E-06	22
1956	7239	175	10267.429	0.011	175.1839	175.5	1.18E-05	1.40E-05	9.54E-06	4301	5119	3484	818	818	2.24E-06	2.24E-06	19
1956	7239	176	10267.55	0.012	176.1846	176.5	1.51E-05	1.75E-05	1.27E-05	5510	6399	4621	889	889	2.43E-06	2.43E-06	16
1956	7239	177	10267.705	0.013	177.1853	177.5	2.05E-05	2.28E-05	1.81E-05	7465	8318	6612	853	853	2.34E-06	2.34E-06	11
1956	7239	178	10267.915	0.011	178.1859	178.5	1.87E-05	2.09E-05	1.65E-05	6825	7643	6007	818	818	2.24E-06	2.24E-06	12
1956	7239	179	10268.107	0.012	179.1866	179.5	2.25E-05	2.48E-05	2.02E-05	8211	9064	7358	853	853	2.34E-06	2.34E-06	10
1956	7239	180	10268.338	0.012	180.1873	180.5	1.45E-05	1.68E-05	1.22E-05	5296	6149	4443	853	853	2.34E-06	2.34E-06	16
1956	7239	181	10268.487	0.012	181.188	181.5	1.73E-05	1.95E-05	1.52E-05	6327	7109	5545	782	782	2.14E-06	2.14E-06	12
1956	7239	182	10268.665	0.01	182.1679	182.5	3.02E-05	3.22E-05	2.81E-05	11019	11765	10272	746	746	2.05E-06	2.05E-06	7
1956	7239	183	10268.975	0.011	183.1686	183.5	1.21E-05	1.42E-05	9.93E-06	4407	5189	3625	782	782	2.14E-06	2.14E-06	18
1956	7239	184	10269.099	0.011	184.1693	184.5	1.22E-05	1.43E-05	1.00E-05	4443	5225	3661	782	782	2.14E-06	2.14E-06	18
1956	7239	185	10269.224	0.011	185.17	185.5	1.13E-05	1.34E-05	9.15E-06	4123	4905	3341	782	782	2.14E-06	2.14E-06	19
1956	7239	186	10269.34	0.011	186.1707	186.5	1.08E-05	1.30E-05	8.57E-06	3945	4763	3128	817	817	2.24E-06	2.24E-06	21
1956	7239	187	10269.451	0.012	187.1714	187.5	1.38E-05	1.60E-05	1.17E-05	5047	5829	4265	782	782	2.14E-06	2.14E-06	15
1956	7239	188	10269.593	0.01	188.1721	188.5	1.72E-05	1.93E-05	1.52E-05	6291	7037	5544	746	746	2.04E-06	2.04E-06	12
1956	7239	189	10269.77	0.011	189.1728	189.5	4.97E-05	5.20E-05	4.73E-05	18126	18979	17273	853	853	2.34E-06	2.34E-06	5
1956	7239	190	10270.28	0.013	190.1734	190.5	2.52E-05	2.78E-05	2.26E-05	9205	10164	8245	960	960	2.63E-06	2.63E-06	10
1956	7239	191	10270.539	0.014	191.1741	191.5	1.45E-05	1.71E-05	1.19E-05	5295	6255	4336	960	960	2.63E-06	2.63E-06	18
1956	7239	192	10270.688	0.013	192.1748	192.5	1.53E-05	1.77E-05	1.29E-05	5579	6468	4691	888	888	2.43E-06	2.43E-06	16
1956	7239	193	10270.845	0.012	193.1755	193.5	1.33E-05	1.55E-05	1.12E-05	4869	5650	4087	782	782	2.14E-06	2.14E-06	16
1956	7239	194	10270.982	0.01	194.1762	194.5	1.08E-05	1.18E-05	9.69E-06	3927	4318	3536	391	391	1.07E-06	1.07E-06	10
1956	7239	196	10271.203	0.012	196.1776	196.5	1.18E-05	1.39E-05	9.64E-06	4300	5082	3518	782	782	2.14E-06	2.14E-06	18
1956	7239	197	10271.324	0.01	197.1783	197.5	1.25E-05	1.43E-05	1.06E-05	4549	5224	3873	675	675	1.85E-06	1.85E-06	15
1956	7239	198	10271.452	0.009	198.179	198.5	1.66E-05	1.83E-05	1.48E-05	6041	6681	5401	640	640	1.75E-06	1.75E-06	11
1956	7239	199	10271.622	0.009	199.1797	199.5	1.35E-05	1.53E-05	1.18E-05	4939	5579	4300	640	640	1.75E-06	1.75E-06	13
1956	7239	200	10271.761	0.009	200.1804	200.5	1.44E-05	1.65E-05	1.24E-05	5259	6005	4513	746	746	2.04E-06	2.04E-06	14
1956	7239	201	10271.909	0.012	201.1811	201.5	1.10E-05	1.30E-05	8.96E-06	4015	4762	3269	746	746	2.04E-06	2.04E-06	19
1956	7239	202	10272.022	0.009	202.1818	202.5	1.33E-05	1.51E-05	1.16E-05	4868	5508	4228	640	640	1.75E-06	1.75E-06	13
1956	7239	203	10272.159	0.009	203.1825	203.5	1.44E-05	1.63E-05	1.26E-05	5259	5934	4584	675	675	1.85E-06	1.85E-06	13
1956	7239	204	10272.307	0.01	204.1832	204.5	1.42E-05	1.51E-05	1.32E-05	5170	5507	4832	338	338	9.25E-07	9.25E-07	7
1956	7239	206	10272.598	0.009	206.1846	206.5	1.28E-05	1.46E-05	1.09E-05	4655	5330	3979	675	675	1.85E-06	1.85E-06	15
1956	7239	207	10272.729	0.01	207.1853	207.5	1.12E-05	1.30E-05	9.35E-06	4086	4761	3411	675	675	1.85E-06	1.85E-06	17
1956	7239	208	10272.844	0.009	208.1859	208.5	1.07E-05	1.28E-05	8.57E-06	3908	4690	3127	782	782	2.14E-06	2.14E-06	20
1956	7239	209	10272.954	0.013	209.1866	209.5	1.07E-05	1.32E-05	8.18E-06	3908	4832	2985	924	924	2.53E-06	2.53E-06	24
1956	7239	210	10273.064	0.013	210.1873	210.5	9.25E-06	1.13E-05	7.20E-06	3375	4121	2629	746	746	2.04E-06	2.04E-06	22
1956	7239	211	10273.159	0.008	211.188	211.5	9.64E-06	1.12E-05	8.08E-06	3517	4086	2949	568	568	1.56E-06	1.56E-06	16
1956	7239	212	10273.258	0.008	212.1887	212.5	8.37E-06	1.01E-05	6.62E-06	3055	3695	2416	640	640	1.75E-06	1.75E-06	21
1956	7239	213	10273.344	0.01	213.1679	213.5	8.47E-06	1.02E-05	6.72E-06	3091	3731	2451	640	640	1.75E-06	1.75E-06	21
1956	7239	214	10273.431	0.008	214.1686	214.5	1.32E-05	1.42E-05	1.22E-05	4814	5169	4459	355	355	9.73E-07	9.73E-07	7
1956	7239	216	10273.702	0.012	216.17	216.5	9.93E-06	1.26E-05	7.30E-06	3624	4583	2665	959	959	2.63E-06	2.63E-06	26
1956	7239	217	10273.804	0.015	217.1707	217.5	1.26E-05	1.38E-05	1.13E-05	4583	5027	4139	444	444	1.22E-06	1.22E-06	10
1956	7239	219	10274.062	0.01	219.1721	219.5	1.30E-05	1.49E-05	1.12E-05	4761	5435	4086	675	675	1.85E-06	1.85E-06	14
1956	7239	220	10274.196	0.009	220.1728	220.5	3.12E-05	3.16E-05	3.07E-05	11375	11531	11218	156	156	4.28E-07	4.28E-07	1
1956	7239	225	10275.797	0.013	225.1762	225.5	1.72E-05	1.79E-05	1.64E-05	6263	6547	5979	284	284	7.79E-07	7.79E-07	5
1956	7239	228	10276.326	0.011	228.1783	228.5	1.91E-05	2.15E-05	1.66E-05	6962	7850	6074	888	888	2.43E-06	2.43E-06	13
1956	7239	229	10276.522	0.014	229.179	229.5	-2.60E-05	-2.56E-05	-2.65E-05	-9505	-9328	-9683	178	178	4.87E-07	4.87E-07	-2
1956	7239	234	10275.184	0.011	234.1825	234.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

7276	1956	142	7519.282	0.011	142.1825	142.5	6.65E-07	3.46E-06	-2.13E-06	243	1262	-777	1019	1019	2.79E-06	2.79E-06	420
7276	1956	143	7519.287	0.01	143.1832	143.5	7.87E-07	1.01E-06	5.65E-07	287	368	206	81	81	2.22E-07	2.22E-07	28
7276	1956	155	7519.358	0.01	155.17	155.5	5.32E-07	3.19E-06	-2.13E-06	194	1165	-777	971	971	2.66E-06	2.66E-06	500
7276	1956	156	7519.362	0.01	156.1707	156.5	7.98E-07	3.59E-06	-1.99E-06	291	1311	-728	1019	1019	2.79E-06	2.79E-06	350
7276	1956	157	7519.368	0.011	157.1714	157.5	6.65E-07	3.59E-06	-2.26E-06	243	1311	-825	1068	1068	2.93E-06	2.93E-06	440
7276	1956	158	7519.373	0.011	158.1721	158.5	7.98E-07	3.72E-06	-2.13E-06	291	1359	-777	1068	1068	2.93E-06	2.93E-06	367
7276	1956	159	7519.379	0.011	159.1728	159.5	9.31E-07	3.86E-06	-1.99E-06	340	1408	-728	1068	1068	2.93E-06	2.93E-06	314
7276	1956	160	7519.386	0.011	160.1734	160.5	7.98E-07	3.86E-06	-2.26E-06	291	1408	-825	1116	1116	3.06E-06	3.06E-06	383
7276	1956	161	7519.392	0.012	161.1741	161.5	9.31E-07	4.12E-06	-2.26E-06	340	1505	-825	1165	1165	3.19E-06	3.19E-06	343
7276	1956	162	7519.399	0.012	162.1748	162.5	6.65E-07	3.72E-06	-2.39E-06	243	1359	-874	1116	1116	3.06E-06	3.06E-06	460
7276	1956	163	7519.404	0.011	163.1755	163.5	6.65E-07	3.59E-06	-2.26E-06	243	1311	-825	1068	1068	2.93E-06	2.93E-06	440
7276	1956	164	7519.409	0.011	164.1762	164.5	9.31E-07	3.86E-06	-1.99E-06	340	1408	-728	1068	1068	2.93E-06	2.93E-06	314
7276	1956	165	7519.416	0.011	165.1769	165.5	9.31E-07	3.99E-06	-2.13E-06	340	1456	-777	1116	1116	3.06E-06	3.06E-06	329
7276	1956	166	7519.423	0.012	166.1776	166.5	9.31E-07	3.99E-06	-2.13E-06	340	1456	-777	1116	1116	3.06E-06	3.06E-06	329
7276	1956	167	7519.43	0.011	167.1783	167.5	7.98E-07	3.86E-06	-2.26E-06	291	1408	-825	1116	1116	3.06E-06	3.06E-06	383
7276	1956	168	7519.436	0.012	168.179	168.5	6.65E-07	3.72E-06	-2.39E-06	243	1359	-874	1116	1116	3.06E-06	3.06E-06	460
7276	1956	169	7519.441	0.011	169.1797	169.5	1.06E-06	3.99E-06	-1.86E-06	388	1456	-680	1068	1068	2.93E-06	2.93E-06	275
7276	1956	170	7519.449	0.011	170.1804	170.5	7.98E-07	3.59E-06	-1.99E-06	291	1311	-728	1019	1019	2.79E-06	2.79E-06	350
7276	1956	171	7519.455	0.01	171.1811	171.5	1.06E-06	3.99E-06	-1.86E-06	388	1456	-680	1068	1068	2.93E-06	2.93E-06	275
7276	1956	172	7519.463	0.012	172.1818	172.5	1.20E-06	4.52E-06	-2.13E-06	437	1650	-777	1214	1214	3.32E-06	3.32E-06	278
7276	1956	173	7519.472	0.013	173.1825	173.5	6.65E-07	3.99E-06	-2.66E-06	243	1456	-971	1214	1214	3.32E-06	3.32E-06	500
7276	1956	174	7519.477	0.012	174.1832	174.5	6.65E-07	3.86E-06	-2.53E-06	243	1408	-922	1165	1165	3.19E-06	3.19E-06	480
7276	1956	175	7519.482	0.012	175.1839	175.5	9.31E-07	4.12E-06	-2.26E-06	340	1505	-825	1165	1165	3.19E-06	3.19E-06	343
7276	1956	176	7519.489	0.012	176.1846	176.5	2.66E-07	3.46E-06	-2.93E-06	97	1262	-1068	1165	1165	3.19E-06	3.19E-06	1200
7276	1956	177	7519.491	0.012	177.1853	177.5	3.19E-06	6.38E-06	2.22E-16	1165	2330	0	1165	1165	3.19E-06	3.19E-06	100
7276	1956	178	7519.515	0.012	178.1859	178.5	2.13E-06	5.32E-06	-1.06E-06	777	1942	-388	1165	1165	3.19E-06	3.19E-06	150
7276	1956	179	7519.531	0.012	179.1866	179.5	3.46E-06	6.65E-06	2.66E-07	1262	2427	97	1165	1165	3.19E-06	3.19E-06	92
7276	1956	180	7519.557	0.012	180.1873	180.5	8.78E-06	1.18E-05	5.72E-06	3204	4320	2087	1116	1116	3.06E-06	3.06E-06	35
7276	1956	181	7519.623	0.011	181.188	181.5	8.78E-06	1.16E-05	5.98E-06	3204	4223	2184	1019	1019	2.79E-06	2.79E-06	32
7276	1956	182	7519.689	0.01	182.1679	182.5	1.05E-05	1.33E-05	7.71E-06	3835	4854	2815	1019	1019	2.79E-06	2.79E-06	27
7276	1956	183	7519.768	0.011	183.1686	183.5	6.12E-06	9.18E-06	3.06E-06	2233	3349	1116	1116	1116	3.06E-06	3.06E-06	50
7276	1956	184	7519.814	0.012	184.1693	184.5	6.65E-07	3.86E-06	-2.53E-06	243	1408	-922	1165	1165	3.19E-06	3.19E-06	480
7276	1956	185	7519.819	0.012	185.17	185.5	1.33E-07	3.46E-06	-3.19E-06	49	1262	-1165	1213	1213	3.32E-06	3.32E-06	2500
7276	1956	186	7519.82	0.013	186.1707	186.5	6.25E-06	9.57E-06	2.93E-06	2281	3495	1068	1213	1213	3.32E-06	3.32E-06	53
7276	1956	187	7519.867	0.012	187.1714	187.5	5.32E-06	8.51E-06	2.13E-06	1942	3106	777	1165	1165	3.19E-06	3.19E-06	60
7276	1956	188	7519.907	0.012	188.1721	188.5	4.52E-06	7.58E-06	1.46E-06	1650	2767	534	1116	1116	3.06E-06	3.06E-06	68
7276	1956	189	7519.941	0.011	189.1728	189.5	1.38E-05	1.69E-05	1.08E-05	5048	6164	3932	1116	1116	3.06E-06	3.06E-06	22
7276	1956	190	7520.045	0.012	190.1734	190.5	6.25E-06	9.57E-06	2.93E-06	2281	3495	1068	1213	1213	3.32E-06	3.32E-06	53
7276	1956	191	7520.092	0.013	191.1741	191.5	3.86E-06	7.31E-06	3.99E-07	1408	2670	146	1262	1262	3.46E-06	3.46E-06	90
7276	1956	192	7520.121	0.013	192.1748	192.5	2.79E-06	5.98E-06	-3.99E-07	1019	2184	-146	1165	1165	3.19E-06	3.19E-06	114
7276	1956	193	7520.142	0.011	193.1755	193.5	2.93E-06	5.72E-06	1.33E-07	1068	2087	49	1019	1019	2.79E-06	2.79E-06	95
7276	1956	194	7520.164	0.01	194.1762	194.5	-4.79E-06	-1.99E-06	-7.58E-06	-1747	-728	-2767	1019	1019	2.79E-06	2.79E-06	-58
7276	1956	195	7520.128	0.011	195.1769	195.5	3.99E-06	7.05E-06	9.31E-07	1456	2572	340	1116	1116	3.06E-06	3.06E-06	77
7276	1956	196	7520.158	0.012	196.1776	196.5	4.65E-06	7.58E-06	1.73E-06	1699	2767	631	1068	1068	2.93E-06	2.93E-06	63
7276	1956	197	7520.193	0.01	197.1783	197.5	4.39E-06	6.91E-06	1.86E-06	1602	2524	680	922	922	2.53E-06	2.53E-06	58
7276	1956	198	7520.226	0.009	198.179	198.5	3.46E-06	5.72E-06	1.20E-06	1262	2087	437	825	825	2.26E-06	2.26E-06	65
7276	1956	199	7520.252	0.008	199.1797	199.5	4.79E-06	6.91E-06	2.66E-06	1747	2524	971	777	777	2.13E-06	2.13E-06	44
7276	1956	200	7520.288	0.008	200.1804	200.5	-9.31E-07	1.73E-06	-3.59E-06	-340	631	-1310	971	971	2.66E-06	2.66E-06	-286
7276	1956	201	7520.281	0.012	201.1811	201.5	3.72E-06	6.52E-06	9.31E-07	1359	2378	340	1019	1019	2.79E-06	2.79E-06	75
7276	1956	202	7520.309	0.009	202.1818	202.5	-1.46E-06	7.98E-07	-3.72E-06	-534	291	-1359	825	825	2.26E-06	2.26E-06	-155
7276	1956	203	7520.298	0.008	203.1825	203.5	-5.58E-06	-3.19E-06	-7.98E-06	-2038	-1165	-2912	874	874	2.39E-06	2.39E-06	-43
7276	1956	204	7520.256	0.01	204.1832	204.5	-1.33E-07	2.53E-06	-2.79E-06	-49	922	-1019	971	971	2.66E-06	2.66E-06	-2000
7276	1956	205	7520.255	0.01	205.1839	205.5	-7.98E-07	1.73E-06	-3.32E-06	-291	631	-1213	922	922	2.53E-06	2.53E-06	-317
7276	1956	206	7520.249	0.009	206.1846	206.5	7.98E-07	3.46E-06	-1.86E-06	291	1262	-679	971	971	2.66E-06	2.66E-06	333
7276	1956	207	7520.255	0.011	207.1853	207.5	1.33E-06	4.12E-06	-1.46E-06	485	1505	-534	1019	1019	2.79E-06	2.79E-06	210
7276	1956	208	7520.265	0.01	208.1859	208.5	2.13E-06	5.05E-06	-7.98E-07	777	1844	-291	1068	1068	2.93E-06	2.93E-06	137
7276	1956	209	7520.281	0.012	209.1866	209.5	1.33E-07	3.32E-06	-3.06E-06	49	1213	-1116	1165	1165	3.19E-06	3.19E-06	2400
7276	1956	210	7520.282	0.012	210.1873	210.5	-6.65E-07	1.99E-06	-3.32E-06	-243	728	-1213	971	971	2.66E-06	2.66E-06	-400
7276	1956	211	7520.277	0.008	211.188	211.5	3.99E-07	2.66E-06	-1.86E-06	146	971	-679	825	825	2.26E-06	2.26E-06	567
7276	1956	212	7520.28	0.009	212.1887	212.5	-1.33E-07	2.39E-06	-2.66E-06	-49	874	-971	922	922	2.53E-06	2.53E-06	-1900
7276	1956	213	7520.279	0.01	213.1679	213.5	2.66E-07	2.79E-06	-2.26E-06	97	1019	-825	922	922	2.53E-06	2.53E-06	950
7276	1956	214	7520.281	0.009	214.1686	214.5	-1.99E-07	9.97E-07	-1.40E-06	-73	364	-510	437	437	1.20E-06	1.20E-06	-600
7276	1956	216	7520.278	0.009	216.17	216.5	1.06E-06	3.86E-06	-1.73E-06	388	1408	-631	1019	1019	2.79E-06	2.79E-06	262
7276	1956	217	7520.286	0.012	217.1707	217.5	1.33E-06	4.52E-06	-1.86E-06	485	1650	-679	1165	1165	3.19E-06	3.19E-06	240
7276	1956	218	7520.296	0.012	218.1714	218.5	-3.59E-06	-5.32E-07	-6.65E-06	-1310	-194	-2427	1116	1116	3.06E-06	3.06E-06	-85
7276	1956	219	7520.269	0.011	219.1721	219.5	1.99E-06	4.52E-06	-5.32E-07	728	1650	-194	922	922	2.53E-06	2.53E-06	127
7276	1956	220	7520.284	0.008	220.1728	220.5	3.66E-06	5.32E-06	1.99E-06	1335	1941	728	607	607	1.66E-06	1.66E-06	45
7276	1956	222	7520.339	0.017	222.1741	222.5	-5.32E-07	4.26E-06	-5.32E-06	-194	1553	-1941	1747	1747	4.79E-06	4.79E-06	-900
7276	1956	223	7520.335	0.019	223.1748	223.5	1.60E-06	5.98E-06	-2.79E-06	582	2184	-1019	1602	1602	4.39E-06	4.39E-06	275
7276	1956	224	7520.347	0.014	224.4255	224.5	3.99E-07	3.46E-06	-2.66E-06	146	1262	-971	1116	1116	3.06E-06	3.06E-06	767
7276	1956	225	7520.35	0.009	225.1762	225.5	3.32E-06	6.12E-06	5.32E-07	1213	2233	194	1019	1019	2.79E-06	2.79E-06	84
7276	1956	226	7520.375	0.012	226.1769	226.5	-3.99E-07	3.06E-06	-3.86E-06	-146	1116	-1408	1262	1262	3.46E-06	3.46E-06	-867
7276	1956	227	7520.372	0.014	227.1776	227.5	7.98E-07	4.12E-06	-2.53E-06	291	1505	-922	1213	1213	3.32E-06	3.32E-06	417
7276	1956	228	7520.378	0.011	228.1783	228.5	6.65E-07	3.72E-06	-2.39E-06	243	1359	-874	1116	1116	3.06E-06	3.06E-06	460
7276	1956	229	7520.383	0.012	229.179	229.5	-1.60E-06	1.20E-06	-4.39E-06	-582	437	-1602	1019	1019	2.79E-06	2.79E-06	-175
7276	1956	230	7520.371	0.009	230.1797	230.5	-3.99E-07	1.99E-06	-2.79E-06	-146	728	-1019	874	874	2.39E-06	2.39E-06	-600
7276	1956	231	7520.368	0.009	231.1804	231.5	3.59E-06	7.05E-06	1.33E-07	1310	2572	49	1262	1262	3.46E-06	3.46E-06	96
7276	1956	232	7520.395	0.017	232.1811	232.5	-1.33E-06	2.39E-06	-5.05E-06	-485	874	-1844	1359	1359	3.72E-06	3.72E-06	-280
7276	1956	233	7520.385	0.011	233.1818	233.5	-2.79E-06	0.00E+00	-5.58E-06	-1019	0	-2038	1019	1019	2.79E-06	2.79E-06	-100
7276	1956	234	7520.364	0.01	234.1825	234.5	-2.66E-07	2.53E-06	-3.06E-06	-97	922	-1116	1019	1019	2.79E-06	2.79E-06	-1050
7276	1956	235	7520.362	0.011	235.1832	235.5	-1.06E-06	1.60E-06	-3.72E-06	-388	582	-1359	971	971	2.66E-06	2.66E-06	-250
7276	1956	236	7520.354	0.009	236.1839	236.5	0.00E+00	2.53E-06	-2.53E-06	0	922	-922	922	922	2.53E-06	2.53E-06	0
7276	1956	237	7520.354	0.01	237.1846	237.5	7.98E-07	3.72E-06	-2.13E-06	291	1359	-777	1068	1068	2.93E-06	2.93E-06	367
7276	1956	238	7520.36	0.012	238.1853	238.5	-1.99E-06	1.60E-06	-5.58E-06	-728	582	-2038	1310	1310	3.59E-06	3.59E-06	-180
7276	1956	239	7520.345	0.015	239.1859	239.5	9.31E-07	4.65E-06	-2.79E-06	340	1699	-1019	1359	1359	3.72E-06	3.72E-06	400
7276	1956	240	7520.352	0.013	240.1866	240.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1957	7234	142	14683.88	0.013	142.1825	142.5	4.56E-06	6.27E-06	2.86E-06	1665	2287	1044	621	621	1.70E-06	1.70E-06	37
1957	7234	143	14683.95	0.012	143.1832	143.5	4.16E-06	4.30E-06	4.02E-06	1518	1570	1467	52	52	1.42E-07	1.42E-07	3
1957	7234	155	14684.68	0.013	155.17	155.5	4.36E-06	6.06E-06	2.66E-06	1591	2212	969	621	621	1.70E-06	1.70E-06	39
1957	7234	156	14684.74	0.012	156.1707	156.5	4.15E-06	5.92E-06	2.38E-06	1516	2162	870	646	646	1.77E-06	1.77E-06	43
1957	7234	157	14684.81	0.014	157.1714	157.5	4.15E-06	5.99E-06	2.32E-06	1516	2187	845	671	671	1.84E-06	1.84E-06	44
1957	7234	158	14684.87	0.013	158.1721	158.5	4.43E-06	6.26E-06	2.59E-06	1616	2287	945	671	671	1.84E-06	1.84E-06	42
1957	7234	159	14684.93	0.014	159.1728	159.5	4.56E-06	6.40E-06	2.72E-06	1665	2336	994	671	671	1.84E-06	1.84E-06	40
1957	7234	160	14685	0.013	160.1734	160.5	4.15E-06	6.06E-06	2.25E-06	1516	2212	820	696	696	1.91E-06	1.91E-06	46
1957	7234	161	14685.06	0.015	161.1741	161.5	4.29E-06	6.33E-06	2.25E-06	1566	2312	820	746	746	2.04E-06	2.04E-06	48
1957	7234	162	14685.12	0.015	162.1748	162.5	4.83E-06	6.74E-06	2.93E-06	1765	2461	1069	696	696	1.91E-06	1.91E-06	39
1957	7234	163	14685.19	0.013	163.1755	163.5	4.90E-06	6.61E-06	3.20E-06	1790	2411	1168	621	621	1.70E-06	1.70E-06	35
1957	7234	164	14685.27	0.012	164.1762	164.5	4.83E-06	6.54E-06	3.13E-06	1765	2386	1143	621	621	1.70E-06	1.70E-06	35
1957	7234	165	14685.34	0.013	165.1769	165.5	4.97E-06	6.74E-06	3.20E-06	1814	2461	1168	646	646	1.77E-06	1.77E-06	36
1957	7234	166	14685.41	0.013	166.1776	166.5	5.11E-06	6.81E-06	3.40E-06	1864	2485	1243	621	621	1.70E-06	1.70E-06	33
1957	7234	167	14685.48	0.012	167.1783	167.5	4.97E-06	6.74E-06	3.20E-06	1814	2461	1168	646	646	1.77E-06	1.77E-06	36
1957	7234	168	14685.56	0.014	168.179	168.5	4.56E-06	6.47E-06	2.66E-06	1665	2361	969	696	696	1.91E-06	1.91E-06	42
1957	7234	169	14685.62	0.014	169.1797	169.5	5.65E-06	7.49E-06	3.81E-06	2063	2734	1392	671	671	1.84E-06	1.84E-06	33
1957	7234	170	14685.71	0.013	170.1804	170.5	4.43E-06	6.13E-06	2.72E-06	1616	2237	994	621	621	1.70E-06	1.70E-06	38
1957	7234	171	14685.77	0.012	171.1811	171.5	4.22E-06	6.06E-06	2.38E-06	1541	2212	870	671	671	1.84E-06	1.84E-06	44
1957	7234	172	14685.83	0.015	172.1818	172.5	5.24E-06	7.22E-06	3.27E-06	1914	2635	1193	721	721	1.97E-06	1.97E-06	38
1957	7234	173	14685.91	0.014	173.1825	173.5	6.67E-06	8.58E-06	4.77E-06	2436	3132	1740	696	696	1.91E-06	1.91E-06	29
1957	7234	174	14686.01	0.014	174.1832	174.5	8.24E-06	1.01E-05	6.40E-06	3007	3678	2336	671	671	1.84E-06	1.84E-06	22
1957	7234	175	14686.13	0.013	175.1839	175.5	7.83E-06	9.67E-06	5.99E-06	2858	3529	2187	671	671	1.84E-06	1.84E-06	23
1957	7234	176	14686.25	0.014	176.1846	176.5	1.27E-05	1.46E-05	1.08E-05	4648	5343	3952	696	696	1.91E-06	1.91E-06	15
1957	7234	177	14686.43	0.014	177.1853	177.5	1.63E-05	1.82E-05	1.44E-05	5940	6636	5244	696	696	1.91E-06	1.91E-06	12
1957	7234	178	14686.67	0.014	178.1859	178.5	8.44E-06	1.03E-05	6.60E-06	3082	3753	2411	671	671	1.84E-06	1.84E-06	22
1957	7234	179	14686.8	0.013	179.1866	179.5	7.42E-06	9.12E-06	5.72E-06	2709	3330	2088	621	621	1.70E-06	1.70E-06	23
1957	7234	180	14686.9	0.012	180.1873	180.5	3.74E-06	5.45E-06	2.04E-06	1367	1988	746	621	621	1.70E-06	1.70E-06	45
1957	7234	181	14686.96	0.013	181.188	181.5	8.24E-06	9.94E-06	6.54E-06	3007	3628	2386	621	621	1.70E-06	1.70E-06	21
1957	7234	182	14687.08	0.012	182.1679	182.5	5.99E-06	7.69E-06	4.29E-06	2187	2808	1566	621	621	1.70E-06	1.70E-06	28
1957	7234	183	14687.17	0.013	183.1686	183.5	6.20E-06	7.90E-06	4.49E-06	2261	2883	1640	621	621	1.70E-06	1.70E-06	27
1957	7234	184	14687.26	0.012	184.1693	184.5	8.85E-07	2.59E-06	-8.17E-07	323	944	-298	621	621	1.70E-06	1.70E-06	192
1957	7234	185	14687.27	0.013	185.17	185.5	1.84E-06	3.54E-06	1.36E-07	671	1292	50	621	621	1.70E-06	1.70E-06	93
1957	7234	186	14687.3	0.012	186.1707	186.5	2.86E-06	4.49E-06	1.23E-06	1044	1640	447	596	596	1.63E-06	1.63E-06	57
1957	7234	187	14687.34	0.012	187.1714	187.5	3.88E-06	5.51E-06	2.25E-06	1417	2013	820	596	596	1.63E-06	1.63E-06	42
1957	7234	188	14687.4	0.012	188.1721	188.5	5.92E-06	7.63E-06	4.22E-06	2162	2783	1541	621	621	1.70E-06	1.70E-06	29
1957	7234	189	14687.49	0.013	189.1728	189.5	6.13E-06	7.90E-06	4.36E-06	2237	2883	1590	646	646	1.77E-06	1.77E-06	29
1957	7234	190	14687.58	0.013	190.1734	190.5	5.58E-06	7.69E-06	3.47E-06	2038	2808	1267	770	770	2.11E-06	2.11E-06	38
1957	7234	191	14687.66	0.018	191.1741	191.5	2.10E-05	2.34E-05	1.87E-05	7679	8549	6809	870	870	2.38E-06	2.38E-06	11
1957	7234	192	14687.97	0.017	192.1748	192.5	9.12E-06	1.10E-05	7.22E-06	3330	4026	2634	696	696	1.91E-06	1.91E-06	21
1957	7234	193	14688.1	0.011	193.1755	193.5	6.60E-06	8.17E-06	5.04E-06	2410	2982	1839	572	572	1.57E-06	1.57E-06	24
1957	7234	194	14688.2	0.012	194.1762	194.5	4.43E-06	6.26E-06	2.59E-06	1615	2286	944	671	671	1.84E-06	1.84E-06	42
1957	7234	195	14688.26	0.015	195.1769	195.5	3.47E-06	5.45E-06	1.50E-06	1267	1988	547	721	721	1.97E-06	1.97E-06	57
1957	7234	196	14688.31	0.014	196.1776	196.5	2.79E-06	4.70E-06	8.85E-07	1019	1715	323	696	696	1.91E-06	1.91E-06	68
1957	7234	197	14688.35	0.014	197.1783	197.5	3.47E-06	5.24E-06	1.70E-06	1267	1913	621	646	646	1.77E-06	1.77E-06	51
1957	7234	198	14688.41	0.012	198.179	198.5	4.56E-06	6.26E-06	2.86E-06	1665	2286	1044	621	621	1.70E-06	1.70E-06	37
1957	7234	199	14688.47	0.013	199.1797	199.5	4.29E-06	5.92E-06	2.66E-06	1566	2162	969	596	596	1.63E-06	1.63E-06	38
1957	7234	200	14688.54	0.011	200.1804	200.5	5.45E-06	7.01E-06	3.88E-06	1988	2559	1416	572	572	1.57E-06	1.57E-06	29
1957	7234	201	14688.62	0.012	201.1811	201.5	5.11E-06	6.60E-06	3.61E-06	1864	2410	1317	547	547	1.50E-06	1.50E-06	29
1957	7234	202	14688.69	0.01	202.1818	202.5	4.08E-06	5.45E-06	2.72E-06	1491	1988	994	497	497	1.36E-06	1.36E-06	33
1957	7234	203	14688.75	0.01	203.1825	203.5	4.15E-06	5.65E-06	2.66E-06	1516	2062	969	547	547	1.50E-06	1.50E-06	36
1957	7234	204	14688.81	0.012	204.1832	204.5	4.97E-06	6.60E-06	3.34E-06	1814	2410	1218	596	596	1.63E-06	1.63E-06	33
1957	7234	205	14688.88	0.012	205.1839	205.5	6.13E-06	7.69E-06	4.56E-06	2236	2808	1665	572	572	1.57E-06	1.57E-06	26
1957	7234	206	14688.97	0.011	206.1846	206.5	4.77E-06	6.13E-06	3.40E-06	1739	2236	1242	497	497	1.36E-06	1.36E-06	29
1957	7234	207	14689.04	0.009	207.1853	207.5	4.73E-06	5.58E-06	3.88E-06	1727	2038	1416	311	311	8.51E-07	8.51E-07	18
1957	7234	209	14689.18	0.016	209.1866	209.5	5.31E-06	7.28E-06	3.34E-06	1938	2659	1218	721	721	1.97E-06	1.97E-06	37
1957	7234	210	14689.26	0.013	210.1873	210.5	4.22E-06	5.65E-06	2.79E-06	1541	2062	1019	522	522	1.43E-06	1.43E-06	34
1957	7234	211	14689.32	0.008	211.188	211.5	6.40E-06	7.56E-06	5.24E-06	2336	2758	1913	422	422	1.16E-06	1.16E-06	18
1957	7234	212	14689.42	0.009	212.1887	212.5	4.77E-06	6.06E-06	3.47E-06	1739	2211	1267	472	472	1.29E-06	1.29E-06	27
1957	7234	213	14689.49	0.01	213.1679	213.5	4.70E-06	5.99E-06	3.40E-06	1714	2187	1242	472	472	1.29E-06	1.29E-06	28
1957	7234	214	14689.56	0.009	214.1686	214.5	6.26E-06	7.05E-06	5.48E-06	2286	2572	2000	286	286	7.83E-07	7.83E-07	12
1957	7234	216	14689.74	0.014	216.17	216.5	6.40E-06	8.71E-06	4.08E-06	2336	3180	1491	845	845	2.31E-06	2.31E-06	36
1957	7234	217	14689.83	0.02	217.1707	217.5	2.79E-06	5.24E-06	3.40E-07	1019	1913	124	894	894	2.45E-06	2.45E-06	88
1957	7234	218	14689.88	0.016	218.1714	218.5	5.04E-06	6.88E-06	3.20E-06	1839	2510	1168	671	671	1.84E-06	1.84E-06	36
1957	7234	219	14689.95	0.011	219.1721	219.5	5.72E-06	7.49E-06	3.95E-06	2087	2733	1441	646	646	1.77E-06	1.77E-06	31
1957	7234	220	14690.03	0.015	220.1728	220.5	9.60E-06	1.01E-05	9.05E-06	3503	3702	3305	199	199	5.45E-07	5.45E-07	6
1957	7234	224	14690.6	0.017	224.4255	224.5	6.26E-06	8.17E-06	4.36E-06	2286	2981	1590	696	696	1.91E-06	1.91E-06	30
1957	7234	225	14690.69	0.011	225.1762	225.5	1.07E-05	1.23E-05	9.05E-06	3901	4497	3304	596	596	1.63E-06	1.63E-06	15
1957	7234	226	14690.85	0.013	226.1769	226.5	7.83E-06	9.80E-06	5.85E-06	2857	3578	2137	721	721	1.97E-06	1.97E-06	25
1957	7234	227	14690.96	0.016	227.1776	227.5	8.71E-06	1.03E-05	7.08E-06	3180	3776	2584	596	596	1.63E-06	1.63E-06	19
1957	7234	228	14691.09	0.008	228.1783	228.5	1.31E-05	1.44E-05	1.17E-05	4770	5267	4273	497	497	1.36E-06	1.36E-06	10
1957	7234	229	14691.28	0.012	229.179	229.5	1.34E-05	1.49E-05	1.19E-05	4894	5441	4348	547	547	1.50E-06	1.50E-06	11
1957	7234	230	14691.48	0.01	230.1797	230.5	1.14E-05	1.29E-05	1.00E-05	4174	4696	3652	522	522	1.43E-06	1.43E-06	12
1957	7234	231	14691.65	0.011	231.1804	231.5	1.62E-05	1.82E-05	1.42E-05	5913	6633	5192	720	720	1.97E-06	1.97E-06	12
1957	7234	232	14691.88	0.018	232.1811	232.5	1.52E-05	1.72E-05	1.33E-05	5565	6261	4869	696	696	1.91E-06	1.91E-06	13
1957	7234	233	14692.11	0.01	233.1818	233.5	1.61E-05	1.74E-05	1.48E-05	5863	6335	5391	472	472	1.29E-06	1.29E-06	8
1957	7234	234	14692.34	0.009	234.1825	234.5	1.29E-05	1.45E-05	1.14E-05	4720	5291	4149	571	571	1.57E-06	1.57E-06	12
1957	7234	235	14692.53	0.014	235.1832	235.5	1.07E-05	1.23E-05	9.12E-06	3900	4472	3329	571	571	1.57E-06	1.57E-06	15
1957	7234	236	14692.69	0.009	236.1839	236.5	1.50E-05	1.63E-05	1.36E-05	5465	5962	4968	497	497	1.36E-06	1.36E-06	9
1957	7234	237	14692.91	0.011	237.1846	237.5	2.09E-05	2.26E-05	1.92E-05	7626	8247	7005	621	621	1.70E-06	1.70E-06	8
1957	7234	238	14693.22	0.014	238.1853	238.5	3.64E-05	3.76E-05	3.53E-05	13290	13712	12867	422	422	1.16E-06	1.16E-06	3
1957	7234	240	14694.29	0.02	240.1866	240.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1957	7237	142	3209.258	0.014	142.1825	142.5	0.00E+00	8.41E-06	-8.41E-06	0	3071	-3071	3071	3071	8.41E-06	8.41E-06	0
1957	7237	143	3209.258	0.013	143.1832	143.5	-3.12E-07	3.89E-07	-1.01E-06	-114	142	-370	256	256	7.01E-07	7.01E-07	-225
1957	7237	155	3209.246	0.014	155.17	155.5	0.00E+00	8.72E-06	-8.72E-06	0	3185	-3185	3185	3185	8.72E-06	8.72E-06	0
1957	7237	156	3209.246	0.014	156.1707	156.5	-3.12E-07	8.72E-06	-9.35E-06	-114	3185	-3412	3298	3298	9.04E-06	9.04E-06	-2900
1957	7237	157	3209.245	0.015	157.1714	157.5	0.00E+00	9.04E-06	-9.04E-06	0	3298	-3298	3298	3298	9.04E-06	9.04E-06	0
1957	7237	158	3209.245	0.014	158.1721	158.5	-3.12E-07	8.41E-06	-9.04E-06	-114	3071	-3298	3185	3185	8.72E-06	8.72E-06	-2800
1957	7237	159	3209.244	0.014	159.1728	159.5	3.12E-07	9.35E-06	-8.72E-06	114	3412	-3185	3298	3298	9.04E-06	9.04E-06	2900
1957	7237	160	3209.245	0.015	160.1734	160.5	-3.12E-07	9.35E-06	-9.97E-06	-114	3412	-3639	3526	3526	9.66E-06	9.66E-06	-3100
1957	7237	161	3209.244	0.016	161.1741	161.5	-1.56E-06	8.10E-06	-1.12E-05	-569	2957	-4094	3526	3526	9.66E-06	9.66E-06	-620
1957	7237	162	3209.239	0.015	162.1748	162.5	1.56E-06	1.09E-05	-7.79E-06	569	3981	-2843	3412	3412	9.35E-06	9.35E-06	600
1957	7237	163	3209.244	0.015	163.1755	163.5	2.18E-06	1.09E-05	-6.54E-06	796	3981	-2388	3185	3185	8.72E-06	8.72E-06	400
1957	7237	164	3209.251	0.013	164.1762	164.5	9.35E-07	9.66E-06	-7.79E-06	341	3526	-2843	3185	3185	8.72E-06	8.72E-06	933
1957	7237	165	3209.254	0.015	165.1769	165.5	1.56E-06	1.03E-05	-7.17E-06	569	3753	-2616	3185	3185	8.72E-06	8.72E-06	560
1957	7237	166	3209.259	0.013	166.1776	166.5	3.43E-06	1.15E-05	-4.67E-06	1251	4208	-1706	2957	2957	8.10E-06	8.10E-06	236
1957	7237	167	3209.27	0.013	167.1783	167.5	3.74E-06	1.22E-05	-4.67E-06	1365	4436	-1706	3071	3071	8.41E-06	8.41E-06	225
1957	7237	168	3209.282	0.014	168.179	168.5	0.00E+00	9.66E-06	-9.66E-06	0	3526	-3526	3526	3526	9.66E-06	9.66E-06	0
1957	7237	169	3209.282	0.017	169.1797	169.5	4.99E-06	1.46E-05	-4.67E-06	1820	5345	-1706	3526	3526	9.66E-06	9.66E-06	194
1957	7237	170	3209.298	0.014	170.1804	170.5	0.00E+00	8.41E-06	-8.41E-06	0	3071	-3071	3071	3071	8.41E-06	8.41E-06	0
1957	7237	171	3209.298	0.013	171.1811	171.5	-3.12E-07	8.41E-06	-9.04E-06	-114	3071	-3298	3184	3184	8.72E-06	8.72E-06	-2800
1957	7237	172	3209.297	0.015	172.1818	172.5	2.49E-06	1.18E-05	-6.86E-06	910	4322	-2502	3412	3412	9.35E-06	9.35E-06	375
1957	7237	173	3209.305	0.015	173.1825	173.5	4.99E-06	1.40E-05	-4.05E-06	1820	5118	-1479	3298	3298	9.04E-06	9.04E-06	181
1957	7237	174	3209.321	0.014	174.1832	174.5	3.12E-06	1.15E-05	-5.30E-06	1137	4208	-1933	3071	3071	8.41E-06	8.41E-06	270
1957	7237	175	3209.331	0.013	175.1839	175.5	4.05E-06	1.18E-05	-3.74E-06	1478	4322	-1365	2843	2843	7.79E-06	7.79E-06	192
1957	7237	176	3209.344	0.012	176.1846	176.5	1.87E-06	9.97E-06	-6.23E-06	682	3639	-2275	2957	2957	8.10E-06	8.10E-06	433
1957	7237	177	3209.35	0.014	177.1853	177.5	8.10E-06	1.65E-05	-3.12E-07	2957	6028	-114	3071	3071	8.41E-06	8.41E-06	104
1957	7237	178	3209.376	0.013	178.1859	178.5	6.23E-07	9.04E-06	-7.79E-06	227	3298	-2843	3071	3071	8.41E-06	8.41E-06	1350
1957	7237	179	3209.378	0.014	179.1866	179.5	2.80E-06	1.09E-05	-5.30E-06	1024	3981	-1933	2957	2957	8.10E-06	8.10E-06	289
1957	7237	180	3209.387	0.012	180.1873	180.5	-1.25E-06	6.23E-06	-8.72E-06	-455	2275	-3184	2729	2729	7.48E-06	7.48E-06	-600
1957	7237	181	3209.383	0.012	181.188	181.5	-5.92E-06	1.56E-06	-1.34E-05	-2161	569	-4890	2730	2730	7.48E-06	7.48E-06	-126
1957	7237	182	3209.364	0.012	182.1679	182.5	-1.56E-06	6.85E-06	-9.97E-06	-569	2502	-3639	3071	3071	8.41E-06	8.41E-06	-540
1957	7237	183	3209.359	0.015	183.1686	183.5	-6.23E-06	2.18E-06	-1.46E-05	-2275	796	-5345	3071	3071	8.41E-06	8.41E-06	-135
1957	7237	184	3209.339	0.012	184.1693	184.5	0.00E+00	8.10E-06	-8.10E-06	0	2957	-2957	2957	2957	8.10E-06	8.10E-06	0
1957	7237	185	3209.339	0.014	185.17	185.5	-1.56E-06	6.86E-06	-9.97E-06	-569	2502	-3639	3071	3071	8.41E-06	8.41E-06	-540
1957	7237	186	3209.334	0.013	186.1707	186.5	-9.35E-07	6.86E-06	-8.72E-06	-341	2502	-3184	2843	2843	7.79E-06	7.79E-06	-833
1957	7237	187	3209.331	0.012	187.1714	187.5	-3.12E-07	6.86E-06	-7.48E-06	-114	2502	-2730	2616	2616	7.17E-06	7.17E-06	-2300
1957	7237	188	3209.33	0.011	188.1721	188.5	6.23E-07	8.10E-06	-6.86E-06	227	2957	-2502	2730	2730	7.48E-06	7.48E-06	1200
1957	7237	189	3209.332	0.013	189.1728	189.5	3.12E-07	9.35E-06	-8.72E-06	114	3412	-3184	3298	3298	9.04E-06	9.04E-06	2900
1957	7237	190	3209.333	0.016	190.1734	190.5	6.23E-07	1.12E-05	-9.97E-06	227	4094	-3639	3867	3867	1.06E-05	1.06E-05	1700
1957	7237	191	3209.335	0.018	191.1741	191.5	-5.61E-06	5.30E-06	-1.65E-05	-2047	1933	-6028	3981	3981	1.09E-05	1.09E-05	-194
1957	7237	192	3209.317	0.017	192.1748	192.5	8.10E-06	1.74E-05	-1.25E-06	2957	6369	-455	3412	3412	9.35E-06	9.35E-06	115
1957	7237	193	3209.343	0.013	193.1755	193.5	1.09E-05	1.90E-05	2.80E-06	3981	6938	1024	2957	2957	8.10E-06	8.10E-06	74
1957	7237	194	3209.378	0.013	194.1762	194.5	-3.12E-07	8.41E-06	-9.04E-06	-114	3071	-3298	3184	3184	8.72E-06	8.72E-06	-2800
1957	7237	195	3209.377	0.015	195.1769	195.5	3.74E-06	8.26E-06	-7.79E-07	1365	3014	-284	1649	1649	4.52E-06	4.52E-06	121
1957	7237	197	3209.401	0.014	197.1783	197.5	-3.12E-07	8.10E-06	-8.72E-06	-114	2957	-3184	3071	3071	8.41E-06	8.41E-06	-2700
1957	7237	198	3209.4	0.013	198.179	198.5	1.34E-05	2.15E-05	5.30E-06	4890	7847	1933	2957	2957	8.10E-06	8.10E-06	60
1957	7237	199	3209.443	0.013	199.1797	199.5	-9.35E-07	6.85E-06	-8.72E-06	-341	2502	-3184	2843	2843	7.79E-06	7.79E-06	-833
1957	7237	200	3209.44	0.012	200.1804	200.5	2.18E-06	9.66E-06	-5.30E-06	796	3526	-1933	2729	2729	7.48E-06	7.48E-06	343
1957	7237	201	3209.447	0.012	201.1811	201.5	-3.12E-07	6.85E-06	-7.48E-06	-114	2502	-2729	2616	2616	7.17E-06	7.17E-06	-2300
1957	7237	202	3209.446	0.011	202.1818	202.5	-1.25E-06	5.30E-06	-7.79E-06	-455	1933	-2843	2388	2388	6.54E-06	6.54E-06	-525
1957	7237	203	3209.442	0.01	203.1825	203.5	-4.05E-06	2.80E-06	-1.09E-05	-1478	1024	-3980	2502	2502	6.85E-06	6.85E-06	-169
1957	7237	204	3209.429	0.012	204.1832	204.5	1.56E-06	8.72E-06	-5.61E-06	569	3184	-2047	2616	2616	7.17E-06	7.17E-06	460
1957	7237	205	3209.434	0.011	205.1839	205.5	-1.87E-06	5.30E-06	-9.04E-06	-682	1933	-3298	2616	2616	7.17E-06	7.17E-06	-383
1957	7237	206	3209.428	0.012	206.1846	206.5	1.56E-06	8.41E-06	-5.30E-06	569	3071	-1933	2502	2502	6.85E-06	6.85E-06	440
1957	7237	207	3209.433	0.01	207.1853	207.5	-1.56E-06	4.67E-06	-7.79E-06	-569	1706	-2843	2275	2275	6.23E-06	6.23E-06	-400
1957	7237	208	3209.428	0.01	208.1859	208.5	-3.12E-06	4.99E-06	-1.12E-05	-1137	1820	-4094	2957	2957	8.10E-06	8.10E-06	-260
1957	7237	209	3209.418	0.016	209.1866	209.5	4.67E-06	1.40E-05	-4.67E-06	1706	5118	-1706	3412	3412	9.35E-06	9.35E-06	200
1957	7237	210	3209.433	0.014	210.1873	210.5	9.35E-07	8.41E-06	-6.54E-06	341	3071	-2388	2729	2729	7.48E-06	7.48E-06	800
1957	7237	211	3209.436	0.01	211.188	211.5	9.35E-07	7.17E-06	-5.30E-06	341	2616	-1933	2275	2275	6.23E-06	6.23E-06	667
1957	7237	212	3209.439	0.01	212.1887	212.5	-3.12E-07	5.92E-06	-6.54E-06	-114	2161	-2388	2275	2275	6.23E-06	6.23E-06	-2000
1957	7237	213	3209.438	0.01	213.1679	213.5	0.00E+00	6.23E-06	-6.23E-06	0	2275	-2275	2275	2275	6.23E-06	6.23E-06	0
1957	7237	214	3209.438	0.01	214.1686	214.5	-2.34E-06	1.56E-06	-6.23E-06	-853	569	-2275	1422	1422	3.89E-06	3.89E-06	-167
1957	7237	216	3209.423	0.015	216.17	216.5	-9.35E-06	1.56E-06	-2.03E-05	-3412	569	-7392	3980	3980	1.09E-05	1.09E-05	-117
1957	7237	217	3209.393	0.02	217.1707	217.5	9.35E-06	2.09E-05	-2.18E-06	3412	7620	-796	4208	4208	1.15E-05	1.15E-05	123
1957	7237	218	3209.423	0.017	218.1714	218.5	3.74E-06	1.25E-05	-4.99E-06	1365	4549	-1820	3184	3184	8.72E-06	8.72E-06	233
1957	7237	219	3209.435	0.011	219.1721	219.5	-4.67E-06	3.12E-06	-1.25E-05	-1706	1137	-4549	2843	2843	7.79E-06	7.79E-06	-167
1957	7237	220	3209.42	0.014	220.1728	220.5	-1.18E-05	-9.19E-06	-1.45E-05	-4322	-3355	-5288	967	967	2.65E-06	2.65E-06	-22
1957	7237	224	3209.268	0.02	224.4255	224.5	-2.18E-06	7.79E-06	-1.22E-05	-796	2843	-4436	3639	3639	9.97E-06	9.97E-06	-457
1957	7237	225	3209.261	0.012	225.1762	225.5	4.67E-06	1.31E-05	-3.74E-06	1706	4777	-1365	3071	3071	8.41E-06	8.41E-06	180
1957	7237	226	3209.276	0.015	226.1769	226.5	-6.23E-07	9.35E-06	-1.06E-05	-227	3412	-3867	3639	3639	9.97E-06	9.97E-06	-1600
1957	7237	227	3209.274	0.017	227.1776	227.5	-1.06E-05	-2.18E-06	-1.90E-05	-3867	-796	-6938	3071	3071	8.41E-06	8.41E-06	-79
1957	7237	228	3209.24	0.01	228.1783	228.5	-4.67E-06	2.80E-06	-1.22E-05	-1706	1024	-4436	2730	2730	7.48E-06	7.48E-06	-160
1957	7237	229	3209.225	0.014	229.179	229.5	1.74E-05	2.52E-05	9.66E-06	6369	9212	3526	2843	2843	7.79E-06	7.79E-06	45
1957	7237	230	3209.281	0.011	230.1797	230.5	9.35E-06	1.56E-05	3.12E-06	3412	5687	1137	2275	2275	6.23E-06	6.23E-06	67
1957	7237	231	3209.311	0.009	231.1804	231.5	5.30E-06	1.50E-05	-4.36E-06	1933	5459	-1592	3526	3526	9.66E-06	9.66E-06	182
1957	7237	232	3209.328	0.022	232.1811	232.5	2.96E-05	3.93E-05	1.99E-05	10804	14330	7279	3526	3526	9.66E-06	9.66E-06	33
1957	7237	233	3209.423	0.009	233.1818	233.5	2.15E-05	2.74E-05	1.56E-05	7847	10008	5686	2161	2161	5.92E-06	5.92E-06	28
1957	7237	234	3209.492	0.01	234.1825	234.5	3.40E-05	4.14E-05	2.65E-05	12396	15125	9666	2729	2729	7.48E-06	7.48E-06	22
1957	7237	235	3209.601	0.014	235.1832	235.5	5.92E-05	6.67E-05	5.17E-05	21606	24336	18877	2729	2729	7.48E-06	7.48E-06	13
1957	7237	236	3209.791	0.01	236.1839	236.5	1.49E-04	1.55E-04	1.42E-04	54238	56739	51736	2502	2502	6.85E-06	6.85E-06	5
1957	7237	237	3210.268	0.012	237.1846	237.5	1.44E-04	1.53E-04	1.34E-04	52411	55821	49000	3411	3411	9.34E-06	9.34E-06	7
1957	7237	238	3210.729	0.018	238.1853	238.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

1957	7239	142	15012.69	0.013	142.1825	142.5	-6.19E-06	-4.53E-06	-7.86E-06	-2261	-1653	-2869	608	608	1.67E-06	1.67E-06	-27
1957	7239	143	15012.59	0.012	143.1832	143.5	-6.28E-06	-6.15E-06	-6.41E-06	-2292	-2243	-2340	49	49	1.33E-07	1.33E-07	-2
1957	7239	155	15011.46	0.012	155.17	155.5	-6.26E-06	-4.60E-06	-7.93E-06	-2286	-1678	-2893	608	608	1.67E-06	1.67E-06	-27
1957	7239	156	15011.37	0.013	156.1707	156.5	-6.33E-06	-4.60E-06	-8.06E-06	-2310	-1678	-2942	632	632	1.73E-06	1.73E-06	-27
1957	7239	157	15011.27	0.013	157.1714	157.5	-6.06E-06	-4.33E-06	-7.79E-06	-2213	-1580	-2845	632	632	1.73E-06	1.73E-06	-29
1957	7239	158	15011.18	0.013	158.1721	158.5	-6.20E-06	-4.46E-06	-7.93E-06	-2261	-1629	-2894	632	632	1.73E-06	1.73E-06	-28
1957	7239	159	15011.09	0.013	159.1728	159.5	-6.06E-06	-4.40E-06	-7.73E-06	-2213	-1605	-2821	608	608	1.67E-06	1.67E-06	-27
1957	7239	160	15011	0.012	160.1734	160.5	-6.13E-06	-4.40E-06	-7.86E-06	-2237	-1605	-2869	632	632	1.73E-06	1.73E-06	-28
1957	7239	161	15010.91	0.014	161.1741	161.5	-6.20E-06	-4.20E-06	-8.19E-06	-2261	-1532	-2991	729	729	2.00E-06	2.00E-06	-32
1957	7239	162	15010.81	0.016	162.1748	162.5	-5.66E-06	-3.73E-06	-7.59E-06	-2067	-1362	-2772	705	705	1.93E-06	1.93E-06	-34
1957	7239	163	15010.73	0.013	163.1755	163.5	-5.46E-06	-3.80E-06	-7.13E-06	-1994	-1386	-2602	608	608	1.67E-06	1.67E-06	-30
1957	7239	164	15010.65	0.012	164.1762	164.5	-5.46E-06	-3.86E-06	-7.06E-06	-1994	-1410	-2578	584	584	1.60E-06	1.60E-06	-29
1957	7239	165	15010.56	0.012	165.1769	165.5	-5.33E-06	-3.73E-06	-6.93E-06	-1945	-1362	-2529	584	584	1.60E-06	1.60E-06	-30
1957	7239	166	15010.48	0.012	166.1776	166.5	-5.13E-06	-3.66E-06	-6.60E-06	-1872	-1337	-2407	535	535	1.47E-06	1.47E-06	-29
1957	7239	167	15010.41	0.01	167.1783	167.5	-5.46E-06	-4.06E-06	-6.86E-06	-1994	-1483	-2505	511	511	1.40E-06	1.40E-06	-26
1957	7239	168	15010.32	0.011	168.179	168.5	-5.33E-06	-3.73E-06	-6.93E-06	-1945	-1362	-2529	584	584	1.60E-06	1.60E-06	-30
1957	7239	169	15010.24	0.013	169.1797	169.5	-4.93E-06	-3.26E-06	-6.60E-06	-1799	-1192	-2407	608	608	1.67E-06	1.67E-06	-34
1957	7239	170	15010.17	0.012	170.1804	170.5	-5.40E-06	-3.86E-06	-6.93E-06	-1970	-1410	-2529	559	559	1.53E-06	1.53E-06	-28
1957	7239	171	15010.09	0.011	171.1811	171.5	-5.60E-06	-4.06E-06	-7.13E-06	-2043	-1483	-2602	559	559	1.53E-06	1.53E-06	-27
1957	7239	172	15010.01	0.012	172.1818	172.5	-4.93E-06	-3.26E-06	-6.60E-06	-1799	-1192	-2407	608	608	1.67E-06	1.67E-06	-34
1957	7239	173	15009.93	0.013	173.1825	173.5	-3.66E-06	-1.93E-06	-5.40E-06	-1337	-705	-1970	632	632	1.73E-06	1.73E-06	-47
1957	7239	174	15009.88	0.013	174.1832	174.5	-1.33E-06	4.00E-07	-3.06E-06	-486	146	-1119	632	632	1.73E-06	1.73E-06	-130
1957	7239	175	15009.86	0.013	175.1839	175.5	-1.60E-06	1.33E-07	-3.33E-06	-584	49	-1216	632	632	1.73E-06	1.73E-06	-108
1957	7239	176	15009.83	0.013	176.1846	176.5	3.33E-06	5.06E-06	1.60E-06	1216	1848	584	632	632	1.73E-06	1.73E-06	52
1957	7239	177	15009.88	0.013	177.1853	177.5	2.27E-06	3.93E-06	6.00E-07	827	1435	219	608	608	1.67E-06	1.67E-06	74
1957	7239	178	15009.92	0.012	178.1859	178.5	-3.00E-06	-1.47E-06	-4.53E-06	-1094	-535	-1654	559	559	1.53E-06	1.53E-06	-51
1957	7239	179	15009.87	0.011	179.1866	179.5	-6.86E-06	-5.40E-06	-8.33E-06	-2505	-1970	-3040	535	535	1.47E-06	1.47E-06	-21
1957	7239	180	15009.77	0.011	180.1873	180.5	-8.06E-06	-6.53E-06	-9.59E-06	-2942	-2383	-3502	559	559	1.53E-06	1.53E-06	-19
1957	7239	181	15009.65	0.012	181.188	181.5	-4.93E-06	-3.40E-06	-6.46E-06	-1800	-1240	-2359	559	559	1.53E-06	1.53E-06	-31
1957	7239	182	15009.57	0.011	182.1679	182.5	-1.73E-05	-1.59E-05	-1.88E-05	-6323	-5788	-6858	535	535	1.47E-06	1.47E-06	-8
1957	7239	183	15009.31	0.011	183.1686	183.5	-4.46E-06	-2.93E-06	-6.00E-06	-1629	-1070	-2189	559	559	1.53E-06	1.53E-06	-34
1957	7239	184	15009.25	0.012	184.1693	184.5	-8.93E-06	-7.33E-06	-1.05E-05	-3259	-2675	-3842	584	584	1.60E-06	1.60E-06	-18
1957	7239	185	15009.11	0.012	185.17	185.5	-8.00E-06	-6.40E-06	-9.59E-06	-2918	-2335	-3502	584	584	1.60E-06	1.60E-06	-20
1957	7239	186	15008.99	0.012	186.1707	186.5	-8.33E-06	-6.73E-06	-9.93E-06	-3040	-2456	-3624	584	584	1.60E-06	1.60E-06	-19
1957	7239	187	15008.87	0.012	187.1714	187.5	-8.33E-06	-6.80E-06	-9.86E-06	-3040	-2481	-3599	559	559	1.53E-06	1.53E-06	-18
1957	7239	188	15008.74	0.011	188.1721	188.5	-7.60E-06	-6.00E-06	-9.19E-06	-2772	-2189	-3356	584	584	1.60E-06	1.60E-06	-21
1957	7239	189	15008.63	0.013	189.1728	189.5	-2.92E-05	-2.74E-05	-3.10E-05	-10652	-9995	-11309	657	657	1.80E-06	1.80E-06	-6
1957	7239	190	15008.19	0.014	190.1734	190.5	1.93E-06	3.80E-06	6.66E-08	705	1386	24	681	681	1.87E-06	1.87E-06	97
1957	7239	191	15008.22	0.014	191.1741	191.5	6.73E-06	8.66E-06	4.80E-06	2456	3162	1751	705	705	1.93E-06	1.93E-06	29
1957	7239	192	15008.32	0.015	192.1748	192.5	-3.80E-06	-2.00E-06	-5.60E-06	-1386	-730	-2043	657	657	1.80E-06	1.80E-06	-47
1957	7239	193	15008.26	0.012	193.1755	193.5	-7.06E-06	-5.53E-06	-8.60E-06	-2578	-2019	-3137	559	559	1.53E-06	1.53E-06	-22
1957	7239	194	15008.16	0.011	194.1762	194.5	-7.76E-06	-6.90E-06	-8.63E-06	-2833	-2517	-3149	316	316	8.66E-07	8.66E-07	-11
1957	7239	196	15007.92	0.015	196.1776	196.5	-8.80E-06	-7.00E-06	-1.06E-05	-3210	-2554	-3867	657	657	1.80E-06	1.80E-06	-20
1957	7239	197	15007.79	0.012	197.1783	197.5	-9.33E-06	-7.66E-06	-1.10E-05	-3405	-2797	-4013	608	608	1.67E-06	1.67E-06	-18
1957	7239	198	15007.65	0.013	198.179	198.5	-7.20E-06	-5.46E-06	-8.93E-06	-2627	-1994	-3259	632	632	1.73E-06	1.73E-06	-24
1957	7239	199	15007.54	0.013	199.1797	199.5	-8.73E-06	-7.13E-06	-1.03E-05	-3186	-2602	-3770	584	584	1.60E-06	1.60E-06	-18
1957	7239	200	15007.41	0.011	200.1804	200.5	-7.20E-06	-5.66E-06	-8.73E-06	-2627	-2067	-3186	559	559	1.53E-06	1.53E-06	-21
1957	7239	201	15007.31	0.012	201.1811	201.5	-6.33E-06	-4.80E-06	-7.86E-06	-2311	-1751	-2870	559	559	1.53E-06	1.53E-06	-24
1957	7239	202	15007.21	0.011	202.1818	202.5	-6.86E-06	-5.53E-06	-8.20E-06	-2505	-2019	-2992	486	486	1.33E-06	1.33E-06	-19
1957	7239	203	15007.11	0.009	203.1825	203.5	-5.66E-06	-4.20E-06	-7.13E-06	-2067	-1532	-2602	535	535	1.47E-06	1.47E-06	-26
1957	7239	204	15007.02	0.013	204.1832	204.5	-4.96E-06	-4.13E-06	-5.80E-06	-1812	-1508	-2116	304	304	8.33E-07	8.33E-07	-17
1957	7239	206	15006.87	0.012	206.1846	206.5	-6.46E-06	-5.00E-06	-7.93E-06	-2359	-1824	-2894	535	535	1.47E-06	1.47E-06	-23
1957	7239	207	15006.78	0.01	207.1853	207.5	-7.13E-06	-5.80E-06	-8.46E-06	-2603	-2116	-3089	486	486	1.33E-06	1.33E-06	-19
1957	7239	208	15006.67	0.01	208.1859	208.5	-4.93E-06	-3.13E-06	-6.73E-06	-1800	-1143	-2457	657	657	1.80E-06	1.80E-06	-36
1957	7239	209	15006.6	0.017	209.1866	209.5	-6.53E-06	-4.46E-06	-8.60E-06	-2384	-1630	-3138	754	754	2.07E-06	2.07E-06	-32
1957	7239	210	15006.5	0.014	210.1873	210.5	-6.60E-06	-5.13E-06	-8.06E-06	-2408	-1873	-2943	535	535	1.47E-06	1.47E-06	-22
1957	7239	211	15006.4	0.008	211.188	211.5	-3.47E-06	-2.27E-06	-4.66E-06	-1265	-827	-1703	438	438	1.20E-06	1.20E-06	-35
1957	7239	212	15006.35	0.01	212.1887	212.5	-5.46E-06	-4.83E-06	-6.10E-06	-1995	-1763	-2226	231	231	6.33E-07	6.33E-07	-12
1957	7239	214	15006.18	0.009	214.1686	214.5	-5.60E-06	-4.76E-06	-6.43E-06	-2043	-1739	-2347	304	304	8.33E-07	8.33E-07	-15
1957	7239	216	15006.01	0.016	216.17	216.5	-3.13E-06	-6.66E-07	-5.60E-06	-1143	-243	-2043	900	900	2.47E-06	2.47E-06	-79
1957	7239	217	15005.97	0.021	217.1707	217.5	-6.80E-06	-5.70E-06	-7.90E-06	-2481	-2080	-2882	401	401	1.10E-06	1.10E-06	-16
1957	7239	219	15005.76	0.012	219.1721	219.5	-4.73E-06	-3.00E-06	-6.46E-06	-1727	-1095	-2359	632	632	1.73E-06	1.73E-06	-37
1957	7239	220	15005.69	0.014	220.1728	220.5	-7.46E-06	-7.12E-06	-7.81E-06	-2724	-2598	-2851	126	126	3.47E-07	3.47E-07	-5
1957	7239	225	15005.13	0.012	225.1762	225.5	1.89E-06	2.38E-06	1.40E-06	689	868	511	178	178	4.89E-07	4.89E-07	26
1957	7239	228	15005.22	0.01	228.1783	228.5	-2.47E-06	-8.00E-07	-4.13E-06	-900	-292	-1508	608	608	1.67E-06	1.67E-06	-68
1957	7239	229	15005.18	0.015	229.179	229.5	2.58E-05	2.62E-05	2.55E-05	9428	9549	9306	122	122	3.33E-07	3.33E-07	1
1957	7239	234	15007.12	0.01	234.1825	234.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

7276	1957	142	32000.65	0.012	142.1825	142.5	-5.94E-07	1.56E-07	-1.34E-06	-217	57	-490	274	274	7.50E-07	7.50E-07	-126
7276	1957	143	32000.63	0.012	143.1832	143.5	-5.94E-07	-5.31E-07	-6.56E-07	-217	-194	-240	23	23	6.25E-08	6.25E-08	-11
7276	1957	155	32000.4	0.012	155.17	155.5	-6.87E-07	3.12E-08	-1.41E-06	-251	11	-513	262	262	7.19E-07	7.19E-07	-105
7276	1957	156	32000.38	0.011	156.1707	156.5	-5.94E-07	1.56E-07	-1.34E-06	-217	57	-490	274	274	7.50E-07	7.50E-07	-126
7276	1957	157	32000.36	0.013	157.1714	157.5	-5.31E-07	2.50E-07	-1.31E-06	-194	91	-479	285	285	7.81E-07	7.81E-07	-147
7276	1957	158	32000.34	0.012	158.1721	158.5	-5.31E-07	2.81E-07	-1.34E-06	-194	103	-490	297	297	8.12E-07	8.12E-07	-153
7276	1957	159	32000.32	0.014	159.1728	159.5	-5.00E-07	3.44E-07	-1.34E-06	-182	125	-490	308	308	8.44E-07	8.44E-07	-169
7276	1957	160	32000.31	0.013	160.1734	160.5	-5.00E-07	4.06E-07	-1.41E-06	-182	148	-513	331	331	9.06E-07	9.06E-07	-181
7276	1957	161	32000.29	0.016	161.1741	161.5	-5.94E-07	3.75E-07	-1.56E-06	-217	137	-570	354	354	9.69E-07	9.69E-07	-163
7276	1957	162	32000.27	0.015	162.1748	162.5	-2.50E-07	6.56E-07	-1.16E-06	-91	240	-422	331	331	9.06E-07	9.06E-07	-363
7276	1957	163	32000.27	0.014	163.1755	163.5	-2.50E-07	5.62E-07	-1.06E-06	-91	205	-388	297	297	8.12E-07	8.12E-07	-325
7276	1957	164	32000.26	0.012	164.1762	164.5	-1.87E-07	5.94E-07	-9.69E-07	-68	217	-354	285	285	7.81E-07	7.81E-07	-417
7276	1957	165	32000.25	0.013	165.1769	165.5	-1.25E-07	6.56E-07	-9.06E-07	-46	240	-331	285	285	7.81E-07	7.81E-07	-625
7276	1957	166	32000.25	0.012	166.1776	166.5	-3.12E-08	6.87E-07	-7.50E-07	-11	251	-274	262	262	7.19E-07	7.19E-07	-2300
7276	1957	167	32000.25	0.011	167.1783	167.5	-2.19E-07	5.00E-07	-9.37E-07	-80	182	-342	262	262	7.19E-07	7.19E-07	-329
7276	1957	168	32000.24	0.012	168.179	168.5	-1.87E-07	5.94E-07	-9.69E-07	-68	217	-354	285	285	7.81E-07	7.81E-07	-417
7276	1957	169	32000.23	0.013	169.1797	169.5	2.19E-07	1.00E-06	-5.62E-07	80	365	-205	285	285	7.81E-07	7.81E-07	357
7276	1957	170	32000.24	0.012	170.1804	170.5	-1.87E-07	5.31E-07	-9.06E-07	-68	194	-331	262	262	7.19E-07	7.19E-07	-383
7276	1957	171	32000.23	0.011	171.1811	171.5	-2.19E-07	5.62E-07	-1.00E-06	-80	205	-365	285	285	7.81E-07	7.81E-07	-357
7276	1957	172	32000.23	0.014	172.1818	172.5	-3.12E-08	8.12E-07	-8.75E-07	-11	297	-319	308	308	8.44E-07	8.44E-07	-2700
7276	1957	173	32000.23	0.013	173.1825	173.5	7.50E-07	1.56E-06	-6.25E-08	274	570	-23	297	297	8.12E-07	8.12E-07	108
7276	1957	174	32000.25	0.013	174.1832	174.5	1.78E-06	2.59E-06	9.69E-07	650	947	354	297	297	8.12E-07	8.12E-07	46
7276	1957	175	32000.31	0.013	175.1839	175.5	2.22E-06	3.03E-06	1.41E-06	810	1106	513	297	297	8.12E-07	8.12E-07	37
7276	1957	176	32000.38	0.013	176.1846	176.5	5.66E-06	6.50E-06	4.81E-06	2065	2372	1757	308	308	8.44E-07	8.44E-07	15
7276	1957	177	32000.56	0.014	177.1853	177.5	7.81E-06	8.66E-06	6.97E-06	2852	3159	2544	308	308	8.44E-07	8.44E-07	11
7276	1957	178	32000.81	0.013	178.1859	178.5	4.25E-06	5.09E-06	3.41E-06	1551	1859	1243	308	308	8.44E-07	8.44E-07	20
7276	1957	179	32000.95	0.014	179.1866	179.5	4.03E-06	4.87E-06	3.19E-06	1471	1779	1163	308	308	8.44E-07	8.44E-07	21
7276	1957	180	32001.07	0.013	180.1873	180.5	1.69E-06	2.47E-06	9.06E-07	616	901	331	285	285	7.81E-07	7.81E-07	46
7276	1957	181	32001.13	0.012	181.188	181.5	3.97E-06	4.69E-06	3.25E-06	1449	1711	1186	262	262	7.19E-07	7.19E-07	18
7276	1957	182	32001.26	0.011	182.1679	182.5	2.66E-06	3.41E-06	1.91E-06	969	1243	696	274	274	7.50E-07	7.50E-07	28
7276	1957	183	32001.34	0.013	183.1686	183.5	2.22E-06	3.00E-06	1.44E-06	810	1095	525	285	285	7.81E-07	7.81E-07	35
7276	1957	184	32001.41	0.012	184.1693	184.5	-1.09E-06	-2.81E-07	-1.91E-06	-399	-103	-696	297	297	8.12E-07	8.12E-07	-74
7276	1957	185	32001.38	0.014	185.17	185.5	-1.16E-06	-3.12E-07	-2.00E-06	-422	-114	-730	308	308	8.44E-07	8.44E-07	-73
7276	1957	186	32001.34	0.013	186.1707	186.5	-6.25E-08	7.19E-07	-8.44E-07	-23	262	-308	285	285	7.81E-07	7.81E-07	-1250
7276	1957	187	32001.34	0.012	187.1714	187.5	7.81E-07	1.53E-06	3.12E-08	285	559	11	274	274	7.50E-07	7.50E-07	96
7276	1957	188	32001.36	0.012	188.1721	188.5	1.91E-06	2.69E-06	1.12E-06	696	981	411	285	285	7.81E-07	7.81E-07	41
7276	1957	189	32001.42	0.013	189.1728	189.5	4.47E-06	5.31E-06	3.62E-06	1631	1939	1323	308	308	8.44E-07	8.44E-07	19
7276	1957	190	32001.57	0.014	190.1734	190.5	9.97E-06	1.09E-05	9.06E-06	3638	3969	3308	331	331	9.06E-07	9.06E-07	9
7276	1957	191	32001.89	0.015	191.1741	191.5	7.91E-06	8.84E-06	6.97E-06	2886	3228	2543	342	342	9.37E-07	9.37E-07	12
7276	1957	192	32002.14	0.015	192.1748	192.5	2.84E-06	3.69E-06	2.00E-06	1038	1346	730	308	308	8.44E-07	8.44E-07	30
7276	1957	193	32002.23	0.012	193.1755	193.5	6.87E-07	1.44E-06	-6.25E-08	251	525	-23	274	274	7.50E-07	7.50E-07	109
7276	1957	194	32002.25	0.012	194.1762	194.5	-1.94E-06	-1.12E-06	-2.75E-06	-707	-411	-1004	297	297	8.12E-07	8.12E-07	-42
7276	1957	195	32002.19	0.014	195.1769	195.5	-7.50E-07	1.56E-07	-1.66E-06	-274	57	-604	331	331	9.06E-07	9.06E-07	-121
7276	1957	196	32002.17	0.015	196.1776	196.5	-4.06E-07	4.69E-07	-1.28E-06	-148	171	-468	319	319	8.75E-07	8.75E-07	-215
7276	1957	197	32002.15	0.013	197.1783	197.5	-4.06E-07	4.06E-07	-1.22E-06	-148	148	-445	297	297	8.12E-07	8.12E-07	-200
7276	1957	198	32002.14	0.013	198.179	198.5	1.69E-06	2.47E-06	9.06E-07	616	901	331	285	285	7.81E-07	7.81E-07	46
7276	1957	199	32002.19	0.012	199.1797	199.5	3.75E-07	1.09E-06	-3.44E-07	137	399	-125	262	262	7.19E-07	7.19E-07	192
7276	1957	200	32002.21	0.011	200.1804	200.5	1.25E-07	8.44E-07	-5.94E-07	46	308	-217	262	262	7.19E-07	7.19E-07	575
7276	1957	201	32002.21	0.012	201.1811	201.5	4.69E-07	1.16E-06	-2.19E-07	171	422	-80	251	251	6.87E-07	6.87E-07	147
7276	1957	202	32002.22	0.01	202.1818	202.5	-3.75E-07	2.19E-07	-9.69E-07	-137	80	-354	217	217	5.94E-07	5.94E-07	-158
7276	1957	203	32002.21	0.009	203.1825	203.5	-3.44E-07	3.12E-07	-1.00E-06	-125	114	-365	240	240	6.56E-07	6.56E-07	-191
7276	1957	204	32002.2	0.012	204.1832	204.5	1.22E-06	1.94E-06	5.00E-07	445	707	182	262	262	7.19E-07	7.19E-07	59
7276	1957	205	32002.24	0.011	205.1839	205.5	7.50E-07	1.44E-06	6.25E-08	274	525	23	251	251	6.87E-07	6.87E-07	92
7276	1957	206	32002.26	0.011	206.1846	206.5	2.50E-07	9.37E-07	-4.37E-07	91	342	-160	251	251	6.87E-07	6.87E-07	275
7276	1957	207	32002.27	0.011	207.1853	207.5	-3.44E-07	3.12E-07	-1.00E-06	-125	114	-365	240	240	6.56E-07	6.56E-07	-191
7276	1957	208	32002.26	0.01	208.1859	208.5	4.69E-07	1.31E-06	-3.75E-07	171	479	-137	308	308	8.44E-07	8.44E-07	180
7276	1957	209	32002.28	0.017	209.1866	209.5	-3.75E-07	5.94E-07	-1.34E-06	-137	217	-490	354	354	9.69E-07	9.69E-07	-258
7276	1957	210	32002.26	0.014	210.1873	210.5	-1.25E-06	-5.31E-07	-1.97E-06	-456	-194	-719	262	262	7.19E-07	7.19E-07	-57
7276	1957	211	32002.22	0.009	211.188	211.5	6.87E-07	1.28E-06	9.37E-08	251	468	34	217	217	5.94E-07	5.94E-07	86
7276	1957	212	32002.25	0.01	212.1887	212.5	-8.44E-07	-2.19E-07	-1.47E-06	-308	-80	-536	228	228	6.25E-07	6.25E-07	-74
7276	1957	213	32002.22	0.01	213.1679	213.5	-5.62E-07	0.00E+00	-1.12E-06	-205	0	-411	205	205	5.62E-07	5.62E-07	-100
7276	1957	214	32002.2	0.008	214.1686	214.5	1.87E-07	5.47E-07	-1.72E-07	68	200	-63	131	131	3.59E-07	3.59E-07	192
7276	1957	216	32002.21	0.015	216.17	216.5	1.00E-06	2.06E-06	-6.25E-08	365	753	-23	388	388	1.06E-06	1.06E-06	106
7276	1957	217	32002.25	0.019	217.1707	217.5	-2.50E-07	8.75E-07	-1.37E-06	-91	319	-502	411	411	1.12E-06	1.12E-06	-450
7276	1957	218	32002.24	0.017	218.1714	218.5	-5.31E-07	3.75E-07	-1.44E-06	-194	137	-525	331	331	9.06E-07	9.06E-07	-171
7276	1957	219	32002.22	0.012	219.1721	219.5	1.19E-06	2.00E-06	3.75E-07	433	730	137	297	297	8.12E-07	8.12E-07	68
7276	1957	220	32002.26	0.014	220.1728	220.5	3.87E-06	4.12E-06	3.62E-06	1411	1503	1320	91	91	2.50E-07	2.50E-07	6
7276	1957	224	32002.75	0.018	224.4255	224.5	2.03E-06	2.94E-06	1.12E-06	741	1072	411	331	331	9.06E-07	9.06E-07	45
7276	1957	225	32002.82	0.011	225.1762	225.5	3.72E-06	4.50E-06	2.94E-06	1357	1642	1072	285	285	7.81E-07	7.81E-07	21
7276	1957	226	32002.94	0.014	226.1769	226.5	5.31E-07	1.50E-06	-4.37E-07	194	547	-160	354	354	9.69E-07	9.69E-07	182
7276	1957	227	32002.95	0.017	227.1776	227.5	1.91E-06	2.78E-06	1.03E-06	696	1015	376	319	319	8.75E-07	8.75E-07	46
7276	1957	228	32003.02	0.011	228.1783	228.5	3.12E-06	3.84E-06	2.41E-06	1141	1403	878	262	262	7.19E-07	7.19E-07	23
7276	1957	229	32003.12	0.012	229.179	229.5	3.56E-06	4.22E-06	2.91E-06	1300	1540	1061	240	240	6.56E-07	6.56E-07	18
7276	1957	230	32003.23	0.009	230.1797	230.5	2.12E-06	2.69E-06	1.56E-06	776	981	570	205	205	5.62E-07	5.62E-07	26
7276	1957	231	32003.3	0.009	231.1804	231.5	5.34E-06	6.19E-06	4.50E-06	1950	2258	1642	308	308	8.44E-07	8.44E-07	16
7276	1957	232	32003.47	0.018	232.1811	232.5	5.25E-06	6.12E-06	4.37E-06	1916	2235	1597	319	319	8.75E-07	8.75E-07	17
7276	1957	233	32003.64	0.01	233.1818	233.5	3.91E-06	4.50E-06	3.31E-06	1426	1642	1209	217	217	5.94E-07	5.94E-07	15
7276	1957	234	32003.76	0.009	234.1825	234.5	2.69E-06	3.37E-06	2.00E-06	981	1232	730	251	251	6.87E-07	6.87E-07	26
7276	1957	235	32003.85	0.013	235.1832	235.5	1.59E-06	2.28E-06	9.06E-07	582	833	331	251	251	6.87E-07	6.87E-07	43
7276	1957	236	32003.9	0.009	236.1839	236.5	3.72E-06	4.31E-06	3.12E-06	1357	1574	1140	217	217	5.94E-07	5.94E-07	16
7276	1957	237	32004.02	0.01	237.1846	237.5	6.37E-06	7.16E-06	5.59E-06	2327	2612	2041	285	285	7.81E-07	7.81E-07	12
7276	1957	238	32004.22	0.015	238.1853	238.5	1.63E-05	1.68E-05	1.58E-05	5942	6130	5754	188	188	5.16E-07	5.16E-07	3
7276	1957	240	32005.26	0.018	240.1866	240.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

7234	7237	142	14724.1	0.013	142.1825	142.5	-2.31E-06	-5.43E-07	-4.07E-06	-843	-198	-1487	645	645	1.77E-06	1.77E-06	-76
7234	7237	143	14724.07	0.013	143.1832	143.5	-2.30E-06	-2.15E-06	-2.46E-06	-841	-785	-897	56	56	1.53E-07	1.53E-07	-7
7234	7237	155	14723.66	0.014	155.17	155.5	-2.17E-06	-3.40E-07	-4.01E-06	-793	-124	-1463	669	669	1.83E-06	1.83E-06	-84
7234	7237	156	14723.63	0.013	156.1707	156.5	-2.45E-06	-5.43E-07	-4.35E-06	-892	-198	-1587	694	694	1.90E-06	1.90E-06	-78
7234	7237	157	14723.59	0.015	157.1714	157.5	-2.24E-06	-2.04E-07	-4.28E-06	-818	-74	-1562	744	744	2.04E-06	2.04E-06	-91
7234	7237	158	14723.56	0.015	158.1721	158.5	-1.97E-06	-6.79E-08	-3.87E-06	-719	-25	-1413	694	694	1.90E-06	1.90E-06	-97
7234	7237	159	14723.53	0.013	159.1728	159.5	-1.97E-06	6.79E-08	-4.01E-06	-719	25	-1463	744	744	2.04E-06	2.04E-06	-103
7234	7237	160	14723.5	0.017	160.1734	160.5	-2.24E-06	6.79E-08	-4.55E-06	-818	25	-1661	843	843	2.31E-06	2.31E-06	-103
7234	7237	161	14723.47	0.017	161.1741	161.5	-2.04E-06	2.04E-07	-4.28E-06	-744	74	-1562	818	818	2.24E-06	2.24E-06	-110
7234	7237	162	14723.44	0.016	162.1748	162.5	-1.63E-06	4.08E-07	-3.67E-06	-595	149	-1339	744	744	2.04E-06	2.04E-06	-125
7234	7237	163	14723.42	0.014	163.1755	163.5	-1.43E-06	4.08E-07	-3.26E-06	-521	149	-1190	669	669	1.83E-06	1.83E-06	-129
7234	7237	164	14723.39	0.013	164.1762	164.5	-8.83E-07	1.02E-06	-2.78E-06	-322	372	-1016	694	694	1.90E-06	1.90E-06	-215
7234	7237	165	14723.38	0.015	165.1769	165.5	-1.36E-07	1.83E-06	-2.11E-06	-50	669	-769	719	719	1.97E-06	1.97E-06	-1450
7234	7237	166	14723.38	0.014	166.1776	166.5	-7.47E-07	1.09E-06	-2.58E-06	-273	397	-942	669	669	1.83E-06	1.83E-06	-245
7234	7237	167	14723.37	0.013	167.1783	167.5	-1.22E-06	6.11E-07	-3.06E-06	-446	223	-1116	669	669	1.83E-06	1.83E-06	-150
7234	7237	168	14723.35	0.014	168.179	168.5	-6.79E-07	1.29E-06	-2.65E-06	-248	471	-967	719	719	1.97E-06	1.97E-06	-290
7234	7237	169	14723.34	0.015	169.1797	169.5	-6.79E-07	1.22E-06	-2.58E-06	-248	446	-942	694	694	1.90E-06	1.90E-06	-280
7234	7237	170	14723.33	0.013	170.1804	170.5	-1.02E-06	6.79E-07	-2.72E-06	-372	248	-992	620	620	1.70E-06	1.70E-06	-167
7234	7237	171	14723.32	0.012	171.1811	171.5	-1.09E-06	7.47E-07	-2.92E-06	-397	273	-1066	669	669	1.83E-06	1.83E-06	-169
7234	7237	172	14723.3	0.015	172.1818	172.5	-6.11E-07	1.36E-06	-2.58E-06	-223	496	-942	719	719	1.97E-06	1.97E-06	-322
7234	7237	173	14723.29	0.014	173.1825	173.5	2.04E-07	2.11E-06	-1.70E-06	74	769	-620	694	694	1.90E-06	1.90E-06	933
7234	7237	174	14723.29	0.014	174.1832	174.5	2.51E-06	4.35E-06	6.79E-07	917	1587	248	669	669	1.83E-06	1.83E-06	73
7234	7237	175	14723.33	0.013	175.1839	175.5	1.36E-06	3.12E-06	-4.08E-07	496	1140	-149	645	645	1.77E-06	1.77E-06	130
7234	7237	176	14723.35	0.013	176.1846	176.5	2.51E-06	4.35E-06	6.79E-07	917	1587	248	669	669	1.83E-06	1.83E-06	73
7234	7237	177	14723.39	0.014	177.1853	177.5	-2.72E-07	1.56E-06	-2.11E-06	-99	570	-769	669	669	1.83E-06	1.83E-06	-675
7234	7237	178	14723.38	0.013	178.1859	178.5	-1.83E-06	0.00E+00	-3.67E-06	-669	0	-1339	669	669	1.83E-06	1.83E-06	-100
7234	7237	179	14723.36	0.014	179.1866	179.5	-2.45E-06	-6.79E-07	-4.21E-06	-892	-248	-1537	645	645	1.77E-06	1.77E-06	-72
7234	7237	180	14723.32	0.012	180.1873	180.5	-5.64E-06	-3.87E-06	-7.40E-06	-2058	-1413	-2702	645	645	1.77E-06	1.77E-06	-31
7234	7237	181	14723.24	0.014	181.188	181.5	-2.72E-06	-9.51E-07	-4.48E-06	-992	-347	-1636	645	645	1.77E-06	1.77E-06	-65
7234	7237	182	14723.2	0.012	182.1679	182.5	-7.34E-06	-5.71E-06	-8.97E-06	-2677	-2082	-3272	595	595	1.63E-06	1.63E-06	-22
7234	7237	183	14723.09	0.012	183.1686	183.5	-4.14E-06	-2.51E-06	-5.77E-06	-1512	-917	-2107	595	595	1.63E-06	1.63E-06	-39
7234	7237	184	14723.03	0.012	184.1693	184.5	-6.32E-06	-4.55E-06	-8.08E-06	-2306	-1661	-2950	645	645	1.77E-06	1.77E-06	-28
7234	7237	185	14722.94	0.014	185.17	185.5	-5.57E-06	-3.80E-06	-7.34E-06	-2033	-1388	-2677	645	645	1.77E-06	1.77E-06	-32
7234	7237	186	14722.85	0.012	186.1707	186.5	-5.03E-06	-3.40E-06	-6.66E-06	-1835	-1240	-2430	595	595	1.63E-06	1.63E-06	-32
7234	7237	187	14722.78	0.012	187.1714	187.5	-4.48E-06	-2.92E-06	-6.05E-06	-1636	-1066	-2206	570	570	1.56E-06	1.56E-06	-35
7234	7237	188	14722.71	0.011	188.1721	188.5	-3.46E-06	-1.97E-06	-4.96E-06	-1264	-719	-1810	545	545	1.49E-06	1.49E-06	-43
7234	7237	189	14722.66	0.011	189.1728	189.5	-5.84E-06	-4.21E-06	-7.47E-06	-2132	-1537	-2727	595	595	1.63E-06	1.63E-06	-28
7234	7237	190	14722.58	0.013	190.1734	190.5	-1.79E-05	-1.60E-05	-1.98E-05	-6520	-5826	-7214	694	694	1.90E-06	1.90E-06	-11
7234	7237	191	14722.31	0.015	191.1741	191.5	4.14E-06	6.25E-06	2.04E-06	1512	2281	744	769	769	2.11E-06	2.11E-06	51
7234	7237	192	14722.37	0.016	192.1748	192.5	-8.15E-07	1.09E-06	-2.72E-06	-298	397	-992	694	694	1.90E-06	1.90E-06	-233
7234	7237	193	14722.36	0.012	193.1755	193.5	-2.65E-06	-1.02E-06	-4.28E-06	-967	-372	-1562	595	595	1.63E-06	1.63E-06	-62
7234	7237	194	14722.32	0.012	194.1762	194.5	-3.46E-06	-1.70E-06	-5.23E-06	-1264	-620	-1909	645	645	1.77E-06	1.77E-06	-51
7234	7237	195	14722.27	0.014	195.1769	195.5	-4.58E-06	-3.74E-06	-5.43E-06	-1673	-1364	-1983	310	310	8.49E-07	8.49E-07	-19
7234	7237	197	14722.14	0.011	197.1783	197.5	-4.35E-06	-2.85E-06	-5.84E-06	-1587	-1041	-2132	545	545	1.49E-06	1.49E-06	-34
7234	7237	198	14722.07	0.011	198.179	198.5	-5.50E-06	-4.01E-06	-7.00E-06	-2008	-1463	-2554	545	545	1.49E-06	1.49E-06	-27
7234	7237	199	14721.99	0.011	199.1797	199.5	-4.82E-06	-3.33E-06	-6.32E-06	-1760	-1215	-2306	545	545	1.49E-06	1.49E-06	-31
7234	7237	200	14721.92	0.011	200.1804	200.5	-3.80E-06	-2.17E-06	-5.43E-06	-1388	-793	-1983	595	595	1.63E-06	1.63E-06	-43
7234	7237	201	14721.87	0.013	201.1811	201.5	-2.85E-06	-1.22E-06	-4.48E-06	-1041	-446	-1636	595	595	1.63E-06	1.63E-06	-57
7234	7237	202	14721.82	0.011	202.1818	202.5	-3.60E-06	-2.11E-06	-5.09E-06	-1314	-769	-1859	545	545	1.49E-06	1.49E-06	-42
7234	7237	203	14721.77	0.011	203.1825	203.5	-3.26E-06	-1.63E-06	-4.89E-06	-1190	-595	-1785	595	595	1.63E-06	1.63E-06	-50
7234	7237	204	14721.72	0.013	204.1832	204.5	-3.19E-06	-1.56E-06	-4.82E-06	-1165	-570	-1760	595	595	1.63E-06	1.63E-06	-51
7234	7237	205	14721.68	0.011	205.1839	205.5	-1.70E-06	-1.36E-07	-3.26E-06	-620	-50	-1190	570	570	1.56E-06	1.56E-06	-92
7234	7237	206	14721.65	0.012	206.1846	206.5	-3.06E-06	-1.56E-06	-4.55E-06	-1116	-570	-1661	545	545	1.49E-06	1.49E-06	-49
7234	7237	207	14721.61	0.01	207.1853	207.5	-2.17E-06	-1.39E-06	-2.95E-06	-793	-508	-1079	285	285	7.81E-07	7.81E-07	-36
7234	7237	209	14721.54	0.013	209.1866	209.5	-1.70E-06	6.79E-08	-3.46E-06	-620	25	-1264	645	645	1.77E-06	1.77E-06	-104
7234	7237	210	14721.52	0.013	210.1873	210.5	-2.17E-06	-6.11E-07	-3.74E-06	-793	-223	-1364	570	570	1.56E-06	1.56E-06	-72
7234	7237	211	14721.48	0.01	211.188	211.5	-5.43E-07	8.15E-07	-1.90E-06	-198	298	-694	496	496	1.36E-06	1.36E-06	-250
7234	7237	212	14721.48	0.01	212.1887	212.5	-1.29E-06	1.36E-07	-2.72E-06	-471	50	-992	521	521	1.43E-06	1.43E-06	-111
7234	7237	213	14721.46	0.011	213.1679	213.5	-1.22E-06	1.36E-07	-2.58E-06	-446	50	-942	496	496	1.36E-06	1.36E-06	-111
7234	7237	214	14721.44	0.009	214.1686	214.5	-4.75E-07	1.70E-07	-1.12E-06	-174	62	-409	236	236	6.45E-07	6.45E-07	-136
7234	7237	216	14721.43	0.01	216.17	216.5	-1.15E-06	5.43E-07	-2.85E-06	-421	198	-1041	620	620	1.70E-06	1.70E-06	-147
7234	7237	217	14721.41	0.015	217.1707	217.5	-2.65E-06	-6.79E-07	-4.62E-06	-967	-248	-1686	719	719	1.97E-06	1.97E-06	-74
7234	7237	218	14721.37	0.014	218.1714	218.5	-4.75E-07	1.22E-06	-2.17E-06	-174	446	-793	620	620	1.70E-06	1.70E-06	-357
7234	7237	219	14721.36	0.011	219.1721	219.5	-2.11E-06	-5.43E-07	-3.67E-06	-769	-198	-1339	570	570	1.56E-06	1.56E-06	-74
7234	7237	220	14721.33	0.012	220.1728	220.5	-5.77E-07	4.76E-07	-1.63E-06	-211	174	-595	384	384	1.05E-06	1.05E-06	-182
7234	7237	222	14721.31	0.019	222.1741	222.5	-2.11E-06	8.83E-07	-5.09E-06	-769	322	-1860	1091	1091	2.99E-06	2.99E-06	-142
7234	7237	223	14721.28	0.025	223.1748	223.5	-5.57E-06	-2.79E-06	-8.36E-06	-2033	-1017	-3050	1017	1017	2.79E-06	2.79E-06	-50
7234	7237	224	14721.2	0.016	224.4255	224.5	-3.94E-06	-2.11E-06	-5.77E-06	-1438	-769	-2108	669	669	1.83E-06	1.83E-06	-47
7234	7237	225	14721.14	0.011	225.1762	225.5	-3.60E-06	-2.04E-06	-5.16E-06	-1314	-744	-1884	570	570	1.56E-06	1.56E-06	-43
7234	7237	226	14721.09	0.012	226.1769	226.5	-1.56E-06	2.04E-07	-3.33E-06	-570	74	-1215	645	645	1.77E-06	1.77E-06	-113
7234	7237	227	14721.07	0.014	227.1776	227.5	-4.76E-06	-3.26E-06	-6.25E-06	-1736	-1190	-2281	545	545	1.49E-06	1.49E-06	-31
7234	7237	228	14721	0.008	228.1783	228.5	-1.43E-06	-1.36E-07	-2.72E-06	-521	-50	-992	471	471	1.29E-06	1.29E-06	-90
7234	7237	229	14720.98	0.011	229.179	229.5	2.31E-06	3.74E-06	8.83E-07	843	1364	322	521	521	1.43E-06	1.43E-06	62
7234	7237	230	14721.01	0.01	230.1797	230.5	-6.79E-08	1.29E-06	-1.43E-06	-25	471	-521	496	496	1.36E-06	1.36E-06	-2000
7234	7237	231	14721.01	0.01	231.1804	231.5	4.48E-06	6.32E-06	2.65E-06	1636	2306	967	669	669	1.83E-06	1.83E-06	41
7234	7237	232	14721.08	0.017	232.1811	232.5	3.12E-06	4.96E-06	1.29E-06	1141	1810	471	669	669	1.83E-06	1.83E-06	59
7234	7237	233	14721.12	0.01	233.1818	233.5	5.50E-06	6.79E-06	4.21E-06	2008	2479	1537	471	471	1.29E-06	1.29E-06	23
7234	7237	234	14721.2	0.009	234.1825	234.5	1.49E-06	2.99E-06	0.00E+00	545	1091	0	545	545	1.49E-06	1.49E-06	100
7234	7237	235	14721.22	0.013	235.1832	235.5	4.62E-06	6.11E-06	3.12E-06	1686	2231	1141	545	545	1.49E-06	1.49E-06	32
7234	7237	236	14721.29	0.009	236.1839	236.5	3.94E-06	5.30E-06	2.58E-06	1438	1934	942	496	496	1.36E-06	1.36E-06	34
7234	7237	237	14721.35	0.011	237.1846	237.5	4.55E-06	6.39E-06	2.72E-06	1661	2331	992	669	669	1.83E-06	1.83E-06	40
7234	7237	238	14721.42	0.016	238.1853	238.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

7234	7239	142	7993.846	0.013	142.1825	142.5	2.50E-07	3.38E-06	-2.88E-06	91	1233	-1050	1142	1142	3.13E-06	3.13E-06	1250
7234	7239	143	7993.848	0.012	143.1832	143.5	3.34E-07	5.94E-07	7.30E-08	122	217	27	95	95	2.61E-07	2.61E-07	78
7234	7239	155	7993.88	0.013	155.17	155.5	1.25E-07	3.50E-06	-3.25E-06	46	1278	-1187	1233	1233	3.38E-06	3.38E-06	2700
7234	7239	156	7993.881	0.014	156.1707	156.5	2.50E-07	3.50E-06	-3.00E-06	91	1278	-1096	1187	1187	3.25E-06	3.25E-06	1300
7234	7239	157	7993.883	0.012	157.1714	157.5	3.75E-07	3.50E-06	-2.75E-06	137	1278	-1005	1141	1141	3.13E-06	3.13E-06	833
7234	7239	158	7993.886	0.013	158.1721	158.5	5.00E-07	3.50E-06	-2.50E-06	183	1278	-913	1096	1096	3.00E-06	3.00E-06	600
7234	7239	159	7993.89	0.011	159.1728	159.5	3.75E-07	3.25E-06	-2.50E-06	137	1187	-913	1050	1050	2.88E-06	2.88E-06	767
7234	7239	160	7993.893	0.012	160.1734	160.5	1.25E-07	3.38E-06	-3.13E-06	46	1233	-1141	1187	1187	3.25E-06	3.25E-06	2600
7234	7239	161	7993.894	0.014	161.1741	161.5	1.25E-07	3.50E-06	-3.25E-06	46	1278	-1187	1233	1233	3.38E-06	3.38E-06	2700
7234	7239	162	7993.895	0.013	162.1748	162.5	8.76E-07	4.00E-06	-2.25E-06	320	1461	-822	1141	1141	3.13E-06	3.13E-06	357
7234	7239	163	7993.902	0.012	163.1755	163.5	1.25E-07	3.13E-06	-2.88E-06	46	1141	-1050	1096	1096	3.00E-06	3.00E-06	2400
7234	7239	164	7993.903	0.012	164.1762	164.5	3.75E-07	3.38E-06	-2.63E-06	137	1233	-959	1096	1096	3.00E-06	3.00E-06	800
7234	7239	165	7993.906	0.012	165.1769	165.5	1.25E-07	3.13E-06	-2.88E-06	46	1141	-1050	1096	1096	3.00E-06	3.00E-06	2400
7234	7239	166	7993.907	0.012	166.1776	166.5	5.00E-07	3.38E-06	-2.38E-06	183	1233	-868	1050	1050	2.88E-06	2.88E-06	575
7234	7239	167	7993.911	0.011	167.1783	167.5	3.75E-07	3.13E-06	-2.38E-06	137	1141	-868	1005	1005	2.75E-06	2.75E-06	733
7234	7239	168	7993.914	0.011	168.179	168.5	5.00E-07	3.25E-06	-2.25E-06	183	1187	-822	1005	1005	2.75E-06	2.75E-06	550
7234	7239	169	7993.918	0.011	169.1797	169.5	3.75E-07	3.13E-06	-2.38E-06	137	1141	-868	1005	1005	2.75E-06	2.75E-06	733
7234	7239	170	7993.921	0.011	170.1804	170.5	6.25E-07	3.25E-06	-2.00E-06	228	1187	-731	959	959	2.63E-06	2.63E-06	420
7234	7239	171	7993.926	0.01	171.1811	171.5	1.00E-06	3.88E-06	-1.88E-06	365	1415	-685	1050	1050	2.88E-06	2.88E-06	287
7234	7239	172	7993.934	0.013	172.1818	172.5	0.00E+00	3.13E-06	-3.13E-06	0	1141	-1141	1141	1141	3.13E-06	3.13E-06	0
7234	7239	173	7993.934	0.012	173.1825	173.5	2.50E-07	3.25E-06	-2.75E-06	91	1187	-1005	1096	1096	3.00E-06	3.00E-06	1200
7234	7239	174	7993.936	0.012	174.1832	174.5	3.75E-07	3.38E-06	-2.63E-06	137	1233	-959	1096	1096	3.00E-06	3.00E-06	800
7234	7239	175	7993.939	0.012	175.1839	175.5	1.75E-06	4.75E-06	-1.25E-06	639	1735	-457	1096	1096	3.00E-06	3.00E-06	171
7234	7239	176	7993.953	0.012	176.1846	176.5	7.51E-07	3.75E-06	-2.25E-06	274	1370	-822	1096	1096	3.00E-06	3.00E-06	400
7234	7239	177	7993.959	0.012	177.1853	177.5	2.50E-07	3.25E-06	-2.75E-06	91	1187	-1005	1096	1096	3.00E-06	3.00E-06	1200
7234	7239	178	7993.961	0.012	178.1859	178.5	1.00E-06	4.00E-06	-2.00E-06	365	1461	-731	1096	1096	3.00E-06	3.00E-06	300
7234	7239	179	7993.969	0.012	179.1866	179.5	0.00E+00	2.88E-06	-2.88E-06	0	1050	-1050	1050	1050	2.88E-06	2.88E-06	0
7234	7239	180	7993.969	0.011	180.1873	180.5	2.25E-06	5.13E-06	-6.25E-07	822	1872	-228	1050	1050	2.88E-06	2.88E-06	128
7234	7239	181	7993.987	0.012	181.188	181.5	3.25E-06	6.00E-06	5.00E-07	1187	2192	183	1005	1005	2.75E-06	2.75E-06	85
7234	7239	182	7994.013	0.01	182.1679	182.5	2.88E-06	5.50E-06	2.50E-07	1050	2009	91	959	959	2.63E-06	2.63E-06	91
7234	7239	183	7994.036	0.011	183.1686	183.5	1.00E-06	3.75E-06	-1.75E-06	365	1370	-639	1004	1004	2.75E-06	2.75E-06	275
7234	7239	184	7994.044	0.011	184.1693	184.5	6.25E-07	3.38E-06	-2.13E-06	228	1233	-776	1004	1004	2.75E-06	2.75E-06	440
7234	7239	185	7994.049	0.011	185.17	185.5	1.63E-06	4.25E-06	-1.00E-06	594	1552	-365	959	959	2.63E-06	2.63E-06	162
7234	7239	186	7994.062	0.01	186.1707	186.5	2.38E-06	5.00E-06	-2.50E-07	868	1826	-91	959	959	2.63E-06	2.63E-06	111
7234	7239	187	7994.081	0.011	187.1714	187.5	1.75E-06	4.38E-06	-8.76E-07	639	1598	-320	959	959	2.63E-06	2.63E-06	150
7234	7239	188	7994.095	0.01	188.1721	188.5	2.50E-06	5.13E-06	-1.25E-07	913	1872	-46	959	959	2.63E-06	2.63E-06	105
7234	7239	189	7994.115	0.011	189.1728	189.5	8.76E-07	4.13E-06	-2.38E-06	320	1507	-868	1187	1187	3.25E-06	3.25E-06	371
7234	7239	190	7994.122	0.015	190.1734	190.5	5.00E-07	4.38E-06	-3.38E-06	183	1598	-1233	1415	1415	3.88E-06	3.88E-06	775
7234	7239	191	7994.126	0.016	191.1741	191.5	-2.25E-06	1.63E-06	-6.13E-06	-822	594	-2237	1415	1415	3.88E-06	3.88E-06	-172
7234	7239	192	7994.108	0.015	192.1748	192.5	-3.75E-07	3.00E-06	-3.75E-06	-137	1096	-1370	1233	1233	3.38E-06	3.38E-06	-900
7234	7239	193	7994.105	0.012	193.1755	193.5	2.25E-06	5.25E-06	-7.51E-07	822	1918	-274	1096	1096	3.00E-06	3.00E-06	133
7234	7239	194	7994.123	0.012	194.1762	194.5	1.88E-06	3.44E-06	3.13E-07	685	1256	114	571	571	1.56E-06	1.56E-06	83
7234	7239	196	7994.153	0.013	196.1776	196.5	2.63E-06	5.63E-06	-3.75E-07	959	2055	-137	1096	1096	3.00E-06	3.00E-06	114
7234	7239	197	7994.174	0.011	197.1783	197.5	1.75E-06	4.50E-06	-1.00E-06	639	1644	-365	1004	1004	2.75E-06	2.75E-06	157
7234	7239	198	7994.188	0.011	198.179	198.5	3.25E-06	5.88E-06	6.25E-07	1187	2146	228	959	959	2.63E-06	2.63E-06	81
7234	7239	199	7994.214	0.01	199.1797	199.5	1.50E-06	3.88E-06	-8.76E-07	548	1415	-320	868	868	2.38E-06	2.38E-06	158
7234	7239	200	7994.226	0.009	200.1804	200.5	1.63E-06	4.25E-06	-1.00E-06	594	1552	-365	959	959	2.63E-06	2.63E-06	162
7234	7239	201	7994.239	0.012	201.1811	201.5	1.25E-06	4.13E-06	-1.63E-06	457	1507	-594	1050	1050	2.88E-06	2.88E-06	230
7234	7239	202	7994.249	0.011	202.1818	202.5	1.00E-06	3.63E-06	-1.63E-06	365	1324	-594	959	959	2.63E-06	2.63E-06	263
7234	7239	203	7994.257	0.01	203.1825	203.5	0.00E+00	2.63E-06	-2.63E-06	0	959	-959	959	959	2.63E-06	2.63E-06	0
7234	7239	204	7994.257	0.011	204.1832	204.5	2.13E-06	3.44E-06	8.13E-07	776	1256	297	479	479	1.31E-06	1.31E-06	62
7234	7239	206	7994.291	0.01	206.1846	206.5	8.76E-07	3.25E-06	-1.50E-06	320	1187	-548	867	867	2.38E-06	2.38E-06	271
7234	7239	207	7994.298	0.009	207.1853	207.5	6.88E-07	2.00E-06	-6.25E-07	251	731	-228	479	479	1.31E-06	1.31E-06	191
7234	7239	209	7994.309	0.012	209.1866	209.5	2.13E-06	5.13E-06	-8.76E-07	776	1872	-320	1096	1096	3.00E-06	3.00E-06	141
7234	7239	210	7994.326	0.012	210.1873	210.5	2.00E-06	4.50E-06	-5.00E-07	731	1644	-183	913	913	2.50E-06	2.50E-06	125
7234	7239	211	7994.342	0.008	211.188	211.5	7.51E-07	2.88E-06	-1.38E-06	274	1050	-502	776	776	2.13E-06	2.13E-06	283
7234	7239	212	7994.348	0.009	212.1887	212.5	8.76E-07	3.25E-06	-1.50E-06	320	1187	-548	867	867	2.38E-06	2.38E-06	271
7234	7239	213	7994.355	0.01	213.1679	213.5	7.51E-07	3.13E-06	-1.63E-06	274	1141	-594	867	867	2.38E-06	2.38E-06	317
7234	7239	214	7994.361	0.009	214.1686	214.5	3.44E-06	4.75E-06	2.13E-06	1256	1735	776	479	479	1.31E-06	1.31E-06	38
7234	7239	216	7994.416	0.012	216.17	216.5	1.25E-07	3.38E-06	-3.13E-06	46	1233	-1141	1187	1187	3.25E-06	3.25E-06	2600
7234	7239	217	7994.417	0.014	217.1707	217.5	2.44E-06	3.94E-06	9.38E-07	890	1438	342	548	548	1.50E-06	1.50E-06	62
7234	7239	219	7994.456	0.01	219.1721	219.5	2.50E-06	4.75E-06	2.50E-07	913	1735	91	822	822	2.25E-06	2.25E-06	90
7234	7239	220	7994.476	0.008	220.1728	220.5	2.02E-05	2.07E-05	1.96E-05	7359	7551	7168	192	192	5.25E-07	5.25E-07	3
7234	7239	225	7995.282	0.013	225.1762	225.5	3.13E-05	3.22E-05	3.04E-05	11428	11747	11108	320	320	8.75E-07	8.75E-07	3
7234	7239	228	7996.033	0.008	228.1783	228.5	9.75E-06	1.24E-05	7.13E-06	3560	4519	2602	959	959	2.63E-06	2.63E-06	27
7234	7239	229	7996.111	0.013	229.179	229.5	-5.13E-06	-4.55E-06	-5.70E-06	-1872	-1662	-2082	210	210	5.75E-07	5.75E-07	-11
7234	7239	234	7995.906	0.01	234.1825	234.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

7276	7234	142	18812.43	0.013	142.1825	142.5	-5.42E-06	-4.09E-06	-6.75E-06	-1979	-1494	-2464	485	485	1.33E-06	1.33E-06	-25
7276	7234	143	18812.33	0.012	143.1832	143.5	-5.49E-06	-5.38E-06	-5.59E-06	-2003	-1965	-2042	39	39	1.06E-07	1.06E-07	-2
7276	7234	155	18811.09	0.012	155.17	155.5	-5.74E-06	-4.47E-06	-7.02E-06	-2096	-1630	-2561	466	466	1.28E-06	1.28E-06	-22
7276	7234	156	18810.98	0.012	156.1707	156.5	-5.48E-06	-4.20E-06	-6.75E-06	-1999	-1533	-2464	466	466	1.28E-06	1.28E-06	-23
7276	7234	157	18810.88	0.012	157.1714	157.5	-5.37E-06	-4.09E-06	-6.65E-06	-1960	-1494	-2425	466	466	1.28E-06	1.28E-06	-24
7276	7234	158	18810.78	0.012	158.1721	158.5	-5.48E-06	-4.20E-06	-6.75E-06	-1999	-1533	-2464	466	466	1.28E-06	1.28E-06	-23
7276	7234	159	18810.68	0.012	159.1728	159.5	-5.53E-06	-4.20E-06	-6.86E-06	-2018	-1533	-2503	485	485	1.33E-06	1.33E-06	-24
7276	7234	160	18810.57	0.013	160.1734	160.5	-5.42E-06	-3.93E-06	-6.91E-06	-1979	-1436	-2523	543	543	1.49E-06	1.49E-06	-27
7276	7234	161	18810.47	0.015	161.1741	161.5	-5.69E-06	-4.25E-06	-7.12E-06	-2076	-1552	-2600	524	524	1.44E-06	1.44E-06	-25
7276	7234	162	18810.36	0.012	162.1748	162.5	-5.26E-06	-3.99E-06	-6.54E-06	-1921	-1455	-2387	466	466	1.28E-06	1.28E-06	-24
7276	7234	163	18810.26	0.012	163.1755	163.5	-5.53E-06	-4.31E-06	-6.75E-06	-2018	-1572	-2464	446	446	1.22E-06	1.22E-06	-22
7276	7234	164	18810.16	0.011	164.1762	164.5	-5.42E-06	-4.20E-06	-6.65E-06	-1979	-1533	-2426	446	446	1.22E-06	1.22E-06	-23
7276	7234	165	18810.06	0.012	165.1769	165.5	-5.48E-06	-4.25E-06	-6.70E-06	-1999	-1552	-2445	446	446	1.22E-06	1.22E-06	-22
7276	7234	166	18809.96	0.011	166.1776	166.5	-5.21E-06	-4.09E-06	-6.33E-06	-1902	-1494	-2309	407	407	1.12E-06	1.12E-06	-21
7276	7234	167	18809.86	0.01	167.1783	167.5	-5.48E-06	-4.41E-06	-6.54E-06	-1999	-1611	-2387	388	388	1.06E-06	1.06E-06	-19
7276	7234	168	18809.75	0.01	168.179	168.5	-5.16E-06	-4.04E-06	-6.27E-06	-1882	-1475	-2290	408	408	1.12E-06	1.12E-06	-22
7276	7234	169	18809.66	0.011	169.1797	169.5	-5.32E-06	-4.15E-06	-6.49E-06	-1940	-1514	-2367	427	427	1.17E-06	1.17E-06	-22
7276	7234	170	18809.56	0.011	170.1804	170.5	-5.16E-06	-4.04E-06	-6.27E-06	-1882	-1475	-2290	408	408	1.12E-06	1.12E-06	-22
7276	7234	171	18809.46	0.01	171.1811	171.5	-5.16E-06	-3.93E-06	-6.38E-06	-1882	-1436	-2329	446	446	1.22E-06	1.22E-06	-24
7276	7234	172	18809.36	0.013	172.1818	172.5	-5.37E-06	-4.04E-06	-6.70E-06	-1960	-1475	-2445	485	485	1.33E-06	1.33E-06	-25
7276	7234	173	18809.26	0.012	173.1825	173.5	-5.37E-06	-4.09E-06	-6.65E-06	-1960	-1494	-2426	466	466	1.28E-06	1.28E-06	-24
7276	7234	174	18809.16	0.012	174.1832	174.5	-5.00E-06	-3.77E-06	-6.22E-06	-1824	-1378	-2270	446	446	1.22E-06	1.22E-06	-24
7276	7234	175	18809.07	0.011	175.1839	175.5	-4.09E-06	-2.82E-06	-5.37E-06	-1494	-1028	-1960	466	466	1.28E-06	1.28E-06	-31
7276	7234	176	18808.99	0.013	176.1846	176.5	-2.61E-06	-1.28E-06	-3.93E-06	-951	-466	-1436	485	485	1.33E-06	1.33E-06	-51
7276	7234	177	18808.94	0.012	177.1853	177.5	-1.06E-06	2.13E-07	-2.34E-06	-388	78	-854	466	466	1.28E-06	1.28E-06	-120
7276	7234	178	18808.92	0.012	178.1859	178.5	-1.06E-06	2.66E-07	-2.39E-06	-388	97	-873	485	485	1.33E-06	1.33E-06	-125
7276	7234	179	18808.9	0.013	179.1866	179.5	-7.44E-07	5.85E-07	-2.07E-06	-272	213	-757	485	485	1.33E-06	1.33E-06	-179
7276	7234	180	18808.89	0.012	180.1873	180.5	-1.59E-06	-2.66E-07	-2.92E-06	-582	-97	-1067	485	485	1.33E-06	1.33E-06	-83
7276	7234	181	18808.86	0.013	181.188	181.5	-1.65E-06	-3.72E-07	-2.92E-06	-602	-136	-1067	466	466	1.28E-06	1.28E-06	-77
7276	7234	182	18808.83	0.011	182.1679	182.5	-1.81E-06	-5.85E-07	-3.03E-06	-660	-213	-1106	446	446	1.22E-06	1.22E-06	-68
7276	7234	183	18808.79	0.012	183.1686	183.5	-2.71E-06	-1.44E-06	-3.99E-06	-990	-524	-1455	466	466	1.28E-06	1.28E-06	-47
7276	7234	184	18808.74	0.012	184.1693	184.5	-4.04E-06	-2.71E-06	-5.37E-06	-1475	-990	-1960	485	485	1.33E-06	1.33E-06	-33
7276	7234	185	18808.67	0.013	185.17	185.5	-5.21E-06	-3.83E-06	-6.59E-06	-1902	-1397	-2406	505	505	1.38E-06	1.38E-06	-27
7276	7234	186	18808.57	0.013	186.1707	186.5	-3.88E-06	-2.55E-06	-5.21E-06	-1417	-931	-1902	485	485	1.33E-06	1.33E-06	-34
7276	7234	187	18808.49	0.012	187.1714	187.5	-3.19E-06	-1.91E-06	-4.47E-06	-1164	-699	-1630	466	466	1.28E-06	1.28E-06	-40
7276	7234	188	18808.43	0.012	188.1721	188.5	-2.87E-06	-1.60E-06	-4.15E-06	-1048	-582	-1514	466	466	1.28E-06	1.28E-06	-44
7276	7234	189	18808.38	0.012	189.1728	189.5	1.60E-06	2.92E-06	2.66E-07	582	1067	97	485	485	1.33E-06	1.33E-06	83
7276	7234	190	18808.41	0.013	190.1734	190.5	1.07E-05	1.21E-05	9.25E-06	3901	4425	3377	524	524	1.44E-06	1.44E-06	13
7276	7234	191	18808.61	0.014	191.1741	191.5	-6.01E-06	-4.52E-06	-7.50E-06	-2193	-1650	-2736	543	543	1.49E-06	1.49E-06	-25
7276	7234	192	18808.5	0.014	192.1748	192.5	-4.09E-06	-2.76E-06	-5.42E-06	-1494	-1009	-1979	485	485	1.33E-06	1.33E-06	-32
7276	7234	193	18808.42	0.011	193.1755	193.5	-5.21E-06	-4.04E-06	-6.38E-06	-1902	-1475	-2329	427	427	1.17E-06	1.17E-06	-22
7276	7234	194	18808.32	0.011	194.1762	194.5	-8.51E-06	-7.28E-06	-9.73E-06	-3105	-2659	-3551	446	446	1.22E-06	1.22E-06	-14
7276	7234	195	18808.16	0.012	195.1769	195.5	-5.21E-06	-3.93E-06	-6.49E-06	-1902	-1436	-2368	466	466	1.28E-06	1.28E-06	-24
7276	7234	196	18808.07	0.012	196.1776	196.5	-3.99E-06	-2.71E-06	-5.26E-06	-1455	-990	-1921	466	466	1.28E-06	1.28E-06	-32
7276	7234	197	18807.99	0.012	197.1783	197.5	-4.73E-06	-3.51E-06	-5.95E-06	-1727	-1281	-2174	446	446	1.22E-06	1.22E-06	-26
7276	7234	198	18807.9	0.011	198.179	198.5	-1.97E-06	-8.51E-07	-3.08E-06	-718	-311	-1126	408	408	1.12E-06	1.12E-06	-57
7276	7234	199	18807.86	0.01	199.1797	199.5	-3.83E-06	-2.76E-06	-4.89E-06	-1397	-1009	-1785	388	388	1.06E-06	1.06E-06	-28
7276	7234	200	18807.79	0.01	200.1804	200.5	-5.32E-06	-4.15E-06	-6.49E-06	-1941	-1514	-2368	427	427	1.17E-06	1.17E-06	-22
7276	7234	201	18807.69	0.012	201.1811	201.5	-4.15E-06	-2.92E-06	-5.37E-06	-1514	-1067	-1960	446	446	1.22E-06	1.22E-06	-29
7276	7234	202	18807.61	0.011	202.1818	202.5	-5.26E-06	-4.15E-06	-6.38E-06	-1921	-1514	-2329	408	408	1.12E-06	1.12E-06	-21
7276	7234	203	18807.52	0.01	203.1825	203.5	-5.96E-06	-4.84E-06	-7.07E-06	-2174	-1766	-2581	408	408	1.12E-06	1.12E-06	-19
7276	7234	204	18807.4	0.011	204.1832	204.5	-3.30E-06	-2.13E-06	-4.47E-06	-1203	-776	-1630	427	427	1.17E-06	1.17E-06	-35
7276	7234	205	18807.34	0.011	205.1839	205.5	-4.47E-06	-3.35E-06	-5.58E-06	-1630	-1223	-2038	408	408	1.12E-06	1.12E-06	-25
7276	7234	206	18807.26	0.01	206.1846	206.5	-5.05E-06	-3.93E-06	-6.17E-06	-1844	-1436	-2251	408	408	1.12E-06	1.12E-06	-22
7276	7234	207	18807.16	0.011	207.1853	207.5	-5.26E-06	-4.65E-06	-5.88E-06	-1921	-1698	-2145	223	223	6.11E-07	6.11E-07	-12
7276	7234	209	18806.96	0.012	209.1866	209.5	-5.10E-06	-3.83E-06	-6.38E-06	-1863	-1397	-2329	466	466	1.28E-06	1.28E-06	-25
7276	7234	210	18806.87	0.012	210.1873	210.5	-6.17E-06	-5.05E-06	-7.28E-06	-2251	-1844	-2659	408	408	1.12E-06	1.12E-06	-18
7276	7234	211	18806.75	0.009	211.188	211.5	-5.16E-06	-4.20E-06	-6.11E-06	-1883	-1533	-2232	349	349	9.57E-07	9.57E-07	-19
7276	7234	212	18806.66	0.009	212.1887	212.5	-5.93E-06	-5.45E-06	-6.41E-06	-2164	-1989	-2339	175	175	4.79E-07	4.79E-07	-8
7276	7234	214	18806.43	0.009	214.1686	214.5	-6.11E-06	-5.61E-06	-6.62E-06	-2232	-2048	-2416	184	184	5.05E-07	5.05E-07	-8
7276	7234	216	18806.2	0.01	216.17	216.5	-5.58E-06	-4.47E-06	-6.70E-06	-2038	-1630	-2445	408	408	1.12E-06	1.12E-06	-20
7276	7234	217	18806.1	0.011	217.1707	217.5	-4.47E-06	-3.24E-06	-5.69E-06	-1630	-1184	-2077	446	446	1.22E-06	1.22E-06	-27
7276	7234	218	18806.01	0.012	218.1714	218.5	-4.79E-06	-3.56E-06	-6.01E-06	-1747	-1300	-2193	446	446	1.22E-06	1.22E-06	-26
7276	7234	219	18805.92	0.011	219.1721	219.5	-3.78E-06	-2.71E-06	-4.84E-06	-1378	-990	-1766	388	388	1.06E-06	1.06E-06	-28
7276	7234	220	18805.85	0.009	220.1728	220.5	-3.19E-06	-2.53E-06	-3.86E-06	-1165	-922	-1407	243	243	6.65E-07	6.65E-07	-21
7276	7234	222	18805.73	0.016	222.1741	222.5	-2.98E-06	-1.01E-06	-4.95E-06	-1087	-369	-1805	718	718	1.97E-06	1.97E-06	-66
7276	7234	223	18805.68	0.021	223.1748	223.5	-3.08E-06	-1.28E-06	-4.89E-06	-1126	-466	-1786	660	660	1.81E-06	1.81E-06	-59
7276	7234	224	18805.62	0.013	224.4255	224.5	-1.54E-06	-3.19E-07	-2.77E-06	-563	-116	-1009	446	446	1.22E-06	1.22E-06	-79
7276	7234	225	18805.59	0.01	225.1762	225.5	-3.94E-06	-2.77E-06	-5.10E-06	-1436	-1009	-1863	427	427	1.17E-06	1.17E-06	-30
7276	7234	226	18805.52	0.012	226.1769	226.5	-6.27E-06	-4.89E-06	-7.66E-06	-2290	-1786	-2795	505	505	1.38E-06	1.38E-06	-22
7276	7234	227	18805.4	0.014	227.1776	227.5	-5.21E-06	-3.99E-06	-6.43E-06	-1902	-1456	-2349	446	446	1.22E-06	1.22E-06	-23
7276	7234	228	18805.3	0.009	228.1783	228.5	-6.17E-06	-5.10E-06	-7.23E-06	-2251	-1863	-2640	388	388	1.06E-06	1.06E-06	-17
7276	7234	229	18805.18	0.011	229.179	229.5	-5.69E-06	-4.57E-06	-6.81E-06	-2077	-1669	-2484	408	408	1.12E-06	1.12E-06	-20
7276	7234	230	18805.08	0.01	230.1797	230.5	-6.38E-06	-5.32E-06	-7.44E-06	-2329	-1941	-2717	388	388	1.06E-06	1.06E-06	-17
7276	7234	231	18804.96	0.01	231.1804	231.5	-5.53E-06	-4.09E-06	-6.97E-06	-2019	-1495	-2543	524	524	1.44E-06	1.44E-06	-26
7276	7234	232	18804.85	0.017	232.1811	232.5	-5.21E-06	-3.72E-06	-6.70E-06	-1902	-1359	-2446	543	543	1.49E-06	1.49E-06	-29
7276	7234	233	18804.75	0.011	233.1818	233.5	-5.96E-06	-4.89E-06	-7.02E-06	-2174	-1786	-2562	388	388	1.06E-06	1.06E-06	-18
7276	7234	234	18804.64	0.009	234.1825	234.5	-6.43E-06	-5.37E-06	-7.50E-06	-2349	-1960	-2737	388	388	1.06E-06	1.06E-06	-17
7276	7234	235	18804.52	0.011	235.1832	235.5	-7.39E-06	-6.33E-06	-8.46E-06	-2698	-2310	-3086	388	388	1.06E-06	1.06E-06	-14
7276	7234	236	18804.38	0.009	236.1839	236.5	-6.01E-06	-5.00E-06	-7.02E-06	-2193	-1825	-2562	369	369	1.01E-06	1.01E-06	-17
7276	7234	237	18804.27	0.01	237.1846	237.5	-6.91E-06	-5.80E-06	-8.03E-06	-2523	-2116	-2931	408	408	1.12E-06	1.12E-06	-16
7276	7234	238	18804.14	0.011	238.1853	238.5	-4.79E-06	-3.46E-06	-6.12E-06	-1747	-1262	-2232	485	485	1.33E-06	1.33E-06	-28
7276	7234	239	18804.05	0.014	239.1859	239.5	-1.60E-06	-2.66E-07	-2.92E-06	-582	-97	-1068	485	485	1.33E-06	1.33E-06	-83
7276	7234	240	18804.02	0.011	240.1866	240.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

7237	7239	142	16655.29	0.012	142.1825	142.5	-9.97E-06	-8.53E-06	-1.14E-05	-3638	-3112	-4164	526	526	1.44E-06	1.44E-06	-14
7237	7239	143	16655.12	0.012	143.1832	143.5	-1.00E-05	-9.91E-06	-1.01E-05	-3660	-3616	-3704	44	44	1.20E-07	1.20E-07	-1
7237	7239	155	16653.12	0.012	155.17	155.5	-1.00E-05	-8.59E-06	-1.15E-05	-3660	-3134	-4186	526	526	1.44E-06	1.44E-06	-14
7237	7239	156	16652.95	0.012	156.1707	156.5	-1.01E-05	-8.65E-06	-1.16E-05	-3704	-3156	-4252	548	548	1.50E-06	1.50E-06	-15
7237	7239	157	16652.78	0.013	157.1714	157.5	-9.85E-06	-8.23E-06	-1.15E-05	-3595	-3003	-4186	592	592	1.62E-06	1.62E-06	-16
7237	7239	158	16652.62	0.014	158.1721	158.5	-9.85E-06	-8.23E-06	-1.15E-05	-3595	-3003	-4186	592	592	1.62E-06	1.62E-06	-16
7237	7239	159	16652.45	0.013	159.1728	159.5	-9.79E-06	-8.05E-06	-1.15E-05	-3573	-2937	-4208	636	636	1.74E-06	1.74E-06	-18
7237	7239	160	16652.29	0.016	160.1734	160.5	-9.91E-06	-8.05E-06	-1.18E-05	-3617	-2937	-4296	679	679	1.86E-06	1.86E-06	-19
7237	7239	161	16652.12	0.015	161.1741	161.5	-9.91E-06	-8.17E-06	-1.17E-05	-3617	-2981	-4252	636	636	1.74E-06	1.74E-06	-18
7237	7239	162	16651.96	0.014	162.1748	162.5	-9.31E-06	-7.63E-06	-1.10E-05	-3398	-2784	-4011	614	614	1.68E-06	1.68E-06	-18
7237	7239	163	16651.8	0.014	163.1755	163.5	-9.07E-06	-7.51E-06	-1.06E-05	-3310	-2740	-3880	570	570	1.56E-06	1.56E-06	-17
7237	7239	164	16651.65	0.012	164.1762	164.5	-8.65E-06	-7.15E-06	-1.01E-05	-3156	-2608	-3704	548	548	1.50E-06	1.50E-06	-17
7237	7239	165	16651.51	0.013	165.1769	165.5	-8.05E-06	-6.49E-06	-9.61E-06	-2937	-2367	-3507	570	570	1.56E-06	1.56E-06	-19
7237	7239	166	16651.38	0.013	166.1776	166.5	-8.23E-06	-6.79E-06	-9.67E-06	-3003	-2477	-3529	526	526	1.44E-06	1.44E-06	-18
7237	7239	167	16651.24	0.011	167.1783	167.5	-8.89E-06	-7.51E-06	-1.03E-05	-3244	-2740	-3748	504	504	1.38E-06	1.38E-06	-16
7237	7239	168	16651.09	0.012	168.179	168.5	-8.23E-06	-6.73E-06	-9.73E-06	-3003	-2455	-3551	548	548	1.50E-06	1.50E-06	-18
7237	7239	169	16650.95	0.013	169.1797	169.5	-8.29E-06	-6.85E-06	-9.73E-06	-3025	-2499	-3551	526	526	1.44E-06	1.44E-06	-17
7237	7239	170	16650.82	0.011	170.1804	170.5	-8.53E-06	-7.21E-06	-9.85E-06	-3113	-2631	-3595	482	482	1.32E-06	1.32E-06	-15
7237	7239	171	16650.67	0.011	171.1811	171.5	-8.59E-06	-7.15E-06	-1.00E-05	-3135	-2609	-3661	526	526	1.44E-06	1.44E-06	-17
7237	7239	172	16650.53	0.013	172.1818	172.5	-8.29E-06	-6.73E-06	-9.85E-06	-3025	-2455	-3595	570	570	1.56E-06	1.56E-06	-19
7237	7239	173	16650.39	0.013	173.1825	173.5	-7.33E-06	-5.77E-06	-8.89E-06	-2674	-2104	-3244	570	570	1.56E-06	1.56E-06	-21
7237	7239	174	16650.27	0.013	174.1832	174.5	-5.04E-06	-3.54E-06	-6.55E-06	-1841	-1293	-2389	548	548	1.50E-06	1.50E-06	-30
7237	7239	175	16650.19	0.012	175.1839	175.5	-5.71E-06	-4.26E-06	-7.15E-06	-2083	-1556	-2609	526	526	1.44E-06	1.44E-06	-25
7237	7239	176	16650.09	0.012	176.1846	176.5	-4.56E-06	-3.18E-06	-5.95E-06	-1666	-1162	-2170	504	504	1.38E-06	1.38E-06	-30
7237	7239	177	16650.02	0.011	177.1853	177.5	-9.67E-06	-8.29E-06	-1.11E-05	-3529	-3025	-4034	504	504	1.38E-06	1.38E-06	-14
7237	7239	178	16649.85	0.012	178.1859	178.5	-9.85E-06	-8.35E-06	-1.14E-05	-3595	-3047	-4143	548	548	1.50E-06	1.50E-06	-15
7237	7239	179	16649.69	0.013	179.1866	179.5	-1.29E-05	-1.14E-05	-1.44E-05	-4713	-4165	-5261	548	548	1.50E-06	1.50E-06	-12
7237	7239	180	16649.48	0.012	180.1873	180.5	-1.35E-05	-1.20E-05	-1.50E-05	-4933	-4385	-5481	548	548	1.50E-06	1.50E-06	-11
7237	7239	181	16649.25	0.013	181.188	181.5	-1.24E-05	-1.09E-05	-1.39E-05	-4538	-3990	-5086	548	548	1.50E-06	1.50E-06	-12
7237	7239	182	16649.04	0.012	182.1679	182.5	-2.42E-05	-2.27E-05	-2.57E-05	-8835	-8287	-9383	548	548	1.50E-06	1.50E-06	-6
7237	7239	183	16648.64	0.013	183.1686	183.5	-1.18E-05	-1.03E-05	-1.33E-05	-4319	-3771	-4867	548	548	1.50E-06	1.50E-06	-13
7237	7239	184	16648.44	0.012	184.1693	184.5	-1.26E-05	-1.11E-05	-1.41E-05	-4604	-4056	-5152	548	548	1.50E-06	1.50E-06	-12
7237	7239	185	16648.23	0.013	185.17	185.5	-1.21E-05	-1.06E-05	-1.37E-05	-4429	-3859	-4999	570	570	1.56E-06	1.56E-06	-13
7237	7239	186	16648.03	0.013	186.1707	186.5	-1.26E-05	-1.11E-05	-1.41E-05	-4582	-4034	-5130	548	548	1.50E-06	1.50E-06	-12
7237	7239	187	16647.82	0.012	187.1714	187.5	-1.30E-05	-1.17E-05	-1.44E-05	-4758	-4275	-5240	482	482	1.32E-06	1.32E-06	-10
7237	7239	188	16647.61	0.01	188.1721	188.5	-1.29E-05	-1.16E-05	-1.42E-05	-4714	-4232	-5196	482	482	1.32E-06	1.32E-06	-10
7237	7239	189	16647.39	0.012	189.1728	189.5	-3.32E-05	-3.15E-05	-3.49E-05	-12125	-11511	-12739	614	614	1.68E-06	1.68E-06	-5
7237	7239	190	16646.84	0.016	190.1734	190.5	-1.53E-05	-1.33E-05	-1.72E-05	-5569	-4868	-6271	702	702	1.92E-06	1.92E-06	-13
7237	7239	191	16646.58	0.016	191.1741	191.5	-7.69E-06	-5.77E-06	-9.61E-06	-2807	-2105	-3508	702	702	1.92E-06	1.92E-06	-25
7237	7239	192	16646.46	0.016	192.1748	192.5	-9.91E-06	-8.17E-06	-1.17E-05	-3618	-2982	-4254	636	636	1.74E-06	1.74E-06	-18
7237	7239	193	16646.29	0.013	193.1755	193.5	-1.15E-05	-1.00E-05	-1.30E-05	-4210	-3662	-4758	548	548	1.50E-06	1.50E-06	-13
7237	7239	194	16646.1	0.012	194.1762	194.5	-1.21E-05	-1.17E-05	-1.26E-05	-4429	-4254	-4605	175	175	4.81E-07	4.81E-07	-4
7237	7239	197	16645.49	0.012	197.1783	197.5	-1.32E-05	-1.17E-05	-1.47E-05	-4824	-4276	-5372	548	548	1.50E-06	1.50E-06	-11
7237	7239	198	16645.27	0.013	198.179	198.5	-1.20E-05	-1.05E-05	-1.35E-05	-4364	-3816	-4912	548	548	1.50E-06	1.50E-06	-13
7237	7239	199	16645.07	0.012	199.1797	199.5	-1.39E-05	-1.25E-05	-1.54E-05	-5087	-4561	-5614	526	526	1.44E-06	1.44E-06	-10
7237	7239	200	16644.84	0.012	200.1804	200.5	-1.24E-05	-1.09E-05	-1.40E-05	-4539	-3969	-5109	570	570	1.56E-06	1.56E-06	-13
7237	7239	201	16644.63	0.014	201.1811	201.5	-1.11E-05	-9.55E-06	-1.27E-05	-4057	-3487	-4627	570	570	1.56E-06	1.56E-06	-14
7237	7239	202	16644.45	0.012	202.1818	202.5	-1.14E-05	-1.00E-05	-1.28E-05	-4167	-3662	-4671	504	504	1.38E-06	1.38E-06	-12
7237	7239	203	16644.26	0.011	203.1825	203.5	-1.06E-05	-9.13E-06	-1.20E-05	-3860	-3333	-4386	526	526	1.44E-06	1.44E-06	-14
7237	7239	204	16644.08	0.013	204.1832	204.5	-9.88E-06	-9.10E-06	-1.07E-05	-3607	-3322	-3893	285	285	7.81E-07	7.81E-07	-8
7237	7239	206	16643.75	0.013	206.1846	206.5	-1.10E-05	-9.55E-06	-1.24E-05	-4013	-3487	-4540	526	526	1.44E-06	1.44E-06	-13
7237	7239	207	16643.57	0.011	207.1853	207.5	-1.11E-05	-9.79E-06	-1.23E-05	-4035	-3575	-4496	461	461	1.26E-06	1.26E-06	-11
7237	7239	208	16643.39	0.01	208.1859	208.5	-9.43E-06	-7.93E-06	-1.09E-05	-3443	-2895	-3991	548	548	1.50E-06	1.50E-06	-16
7237	7239	209	16643.23	0.015	209.1866	209.5	-1.00E-05	-8.29E-06	-1.18E-05	-3662	-3026	-4298	636	636	1.74E-06	1.74E-06	-17
7237	7239	210	16643.06	0.014	210.1873	210.5	-1.00E-05	-8.59E-06	-1.15E-05	-3663	-3136	-4189	526	526	1.44E-06	1.44E-06	-14
7237	7239	211	16642.9	0.01	211.188	211.5	-7.87E-06	-6.61E-06	-9.13E-06	-2873	-2412	-3334	461	461	1.26E-06	1.26E-06	-16
7237	7239	212	16642.77	0.011	212.1887	212.5	-9.13E-06	-7.75E-06	-1.05E-05	-3334	-2829	-3838	504	504	1.38E-06	1.38E-06	-15
7237	7239	213	16642.61	0.012	213.1679	213.5	-8.77E-06	-7.39E-06	-1.02E-05	-3202	-2698	-3706	504	504	1.38E-06	1.38E-06	-16
7237	7239	214	16642.47	0.011	214.1686	214.5	-9.58E-06	-8.86E-06	-1.03E-05	-3498	-3235	-3761	263	263	7.21E-07	7.21E-07	-8
7237	7239	216	16642.15	0.013	216.17	216.5	-9.13E-06	-7.39E-06	-1.09E-05	-3334	-2698	-3970	636	636	1.74E-06	1.74E-06	-19
7237	7239	217	16642	0.016	217.1707	217.5	-8.95E-06	-8.11E-06	-9.79E-06	-3268	-2961	-3575	307	307	8.41E-07	8.41E-07	-9
7237	7239	219	16641.7	0.012	219.1721	219.5	-9.91E-06	-8.53E-06	-1.13E-05	-3619	-3114	-4123	504	504	1.38E-06	1.38E-06	-14
7237	7239	220	16641.53	0.011	220.1728	220.5	-1.39E-05	-1.36E-05	-1.42E-05	-5071	-4961	-5181	110	110	3.00E-07	3.00E-07	-2
7237	7239	225	16640.38	0.014	225.1762	225.5	-4.95E-06	-4.43E-06	-5.47E-06	-1806	-1616	-1996	190	190	5.21E-07	5.21E-07	-11
7237	7239	228	16640.13	0.012	228.1783	228.5	-1.26E-05	-1.10E-05	-1.41E-05	-4584	-4014	-5155	570	570	1.56E-06	1.56E-06	-12
7237	7239	229	16639.92	0.014	229.179	229.5	1.42E-05	1.45E-05	1.39E-05	5181	5291	5071	110	110	3.00E-07	3.00E-07	2
7237	7239	234	16641.1	0.011	234.1825	234.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

7276	7237	142	32923.12	0.013	142.1825	142.5	-3.61E-06	-2.86E-06	-4.37E-06	-1319	-1042	-1596	277	277	7.59E-07	7.59E-07	-21
7276	7237	143	32923	0.012	143.1832	143.5	-3.67E-06	-4.33E-05	-4.48E-05	-1341	-15810	-16364	-14469	15023	-3.96E-05	4.12E-05	1079
7276	7237	155	32921.55	0.013	155.17	155.5	-3.77E-06	-3.01E-06	-4.53E-06	-1375	-1098	-1652	277	277	7.59E-07	7.59E-07	-20
7276	7237	156	32921.43	0.012	156.1707	156.5	-3.71E-06	-2.92E-06	-4.50E-06	-1353	-1064	-1641	288	288	7.90E-07	7.90E-07	-21
7276	7237	157	32921.31	0.014	157.1714	157.5	-3.61E-06	-2.76E-06	-4.47E-06	-1319	-1009	-1630	310	310	8.51E-07	8.51E-07	-24
7276	7237	158	32921.19	0.014	158.1721	158.5	-3.55E-06	-2.67E-06	-4.43E-06	-1297	-976	-1619	322	322	8.81E-07	8.81E-07	-25
7276	7237	159	32921.07	0.015	159.1728	159.5	-3.55E-06	-2.64E-06	-4.47E-06	-1297	-965	-1630	333	333	9.11E-07	9.11E-07	-26
7276	7237	160	32920.95	0.015	160.1734	160.5	-3.55E-06	-2.58E-06	-4.53E-06	-1297	-942	-1652	355	355	9.72E-07	9.72E-07	-27
7276	7237	161	32920.84	0.017	161.1741	161.5	-3.65E-06	-2.64E-06	-4.65E-06	-1330	-965	-1696	366	366	1.00E-06	1.00E-06	-27
7276	7237	162	32920.72	0.016	162.1748	162.5	-3.28E-06	-2.37E-06	-4.19E-06	-1197	-865	-1530	333	333	9.11E-07	9.11E-07	-28
7276	7237	163	32920.61	0.014	163.1755	163.5	-3.22E-06	-2.43E-06	-4.01E-06	-1175	-887	-1464	288	288	7.90E-07	7.90E-07	-25
7276	7237	164	32920.5	0.012	164.1762	164.5	-2.95E-06	-2.19E-06	-3.71E-06	-1075	-798	-1353	277	277	7.59E-07	7.59E-07	-26
7276	7237	165	32920.4	0.013	165.1769	165.5	-2.67E-06	-1.88E-06	-3.46E-06	-976	-687	-1264	288	288	7.90E-07	7.90E-07	-30
7276	7237	166	32920.32	0.013	166.1776	166.5	-2.73E-06	-1.97E-06	-3.49E-06	-998	-721	-1275	277	277	7.59E-07	7.59E-07	-28
7276	7237	167	32920.23	0.012	167.1783	167.5	-3.16E-06	-2.40E-06	-3.92E-06	-1153	-876	-1430	277	277	7.59E-07	7.59E-07	-24
7276	7237	168	32920.12	0.013	168.179	168.5	-2.70E-06	-1.91E-06	-3.49E-06	-987	-699	-1275	288	288	7.90E-07	7.90E-07	-29
7276	7237	169	32920.03	0.013	169.1797	169.5	-2.76E-06	-2.04E-06	-3.49E-06	-1009	-743	-1275	266	266	7.29E-07	7.29E-07	-26
7276	7237	170	32919.94	0.011	170.1804	170.5	-2.86E-06	-2.19E-06	-3.52E-06	-1042	-798	-1286	244	244	6.68E-07	6.68E-07	-23
7276	7237	171	32919.85	0.011	171.1811	171.5	-2.86E-06	-2.13E-06	-3.58E-06	-1042	-776	-1308	266	266	7.29E-07	7.29E-07	-26
7276	7237	172	32919.75	0.013	172.1818	172.5	-2.76E-06	-1.94E-06	-3.58E-06	-1009	-710	-1308	299	299	8.20E-07	8.20E-07	-30
7276	7237	173	32919.66	0.014	173.1825	173.5	-2.40E-06	-1.61E-06	-3.19E-06	-876	-588	-1164	288	288	7.90E-07	7.90E-07	-33
7276	7237	174	32919.58	0.012	174.1832	174.5	-1.06E-06	-3.65E-07	-1.76E-06	-388	-133	-643	255	255	6.99E-07	6.99E-07	-66
7276	7237	175	32919.55	0.011	175.1839	175.5	-1.03E-06	-3.34E-07	-1.73E-06	-377	-122	-632	255	255	6.99E-07	6.99E-07	-68
7276	7237	176	32919.52	0.012	176.1846	176.5	5.77E-07	1.31E-06	-1.52E-07	211	477	-55	266	266	7.29E-07	7.29E-07	126
7276	7237	177	32919.53	0.012	177.1853	177.5	1.22E-07	8.51E-07	-6.08E-07	44	310	-222	266	266	7.29E-07	7.29E-07	600
7276	7237	178	32919.54	0.012	178.1859	178.5	-6.68E-07	6.08E-08	-1.40E-06	-244	22	-510	266	266	7.29E-07	7.29E-07	-109
7276	7237	179	32919.52	0.012	179.1866	179.5	-6.99E-07	0.00E+00	-1.40E-06	-255	0	-510	255	255	6.99E-07	6.99E-07	-100
7276	7237	180	32919.49	0.011	180.1873	180.5	-2.73E-06	-2.07E-06	-3.40E-06	-998	-754	-1242	244	244	6.68E-07	6.68E-07	-24
7276	7237	181	32919.4	0.011	181.188	181.5	-1.46E-06	-8.20E-07	-2.10E-06	-532	-299	-765	233	233	6.38E-07	6.38E-07	-44
7276	7237	182	32919.36	0.01	182.1679	182.5	-3.58E-06	-2.95E-06	-4.22E-06	-1308	-1076	-1541	233	233	6.38E-07	6.38E-07	-18
7276	7237	183	32919.24	0.011	183.1686	183.5	-2.76E-06	-2.07E-06	-3.46E-06	-1009	-754	-1264	255	255	6.99E-07	6.99E-07	-25
7276	7237	184	32919.15	0.012	184.1693	184.5	-4.47E-06	-3.61E-06	-5.32E-06	-1630	-1319	-1940	310	310	8.51E-07	8.51E-07	-19
7276	7237	185	32919	0.016	185.17	185.5	-4.71E-06	-3.83E-06	-5.59E-06	-1719	-1397	-2040	322	322	8.81E-07	8.81E-07	-19
7276	7237	186	32918.84	0.013	186.1707	186.5	-3.80E-06	-3.04E-06	-4.56E-06	-1386	-1109	-1663	277	277	7.59E-07	7.59E-07	-20
7276	7237	187	32918.72	0.012	187.1714	187.5	-3.19E-06	-2.46E-06	-3.92E-06	-1164	-898	-1430	266	266	7.29E-07	7.29E-07	-23
7276	7237	188	32918.61	0.012	188.1721	188.5	-2.52E-06	-1.82E-06	-3.22E-06	-920	-665	-1175	255	255	6.99E-07	6.99E-07	-28
7276	7237	189	32918.53	0.011	189.1728	189.5	-1.06E-06	-3.34E-07	-1.79E-06	-388	-122	-654	266	266	7.29E-07	7.29E-07	-69
7276	7237	190	32918.5	0.013	190.1734	190.5	-6.68E-07	1.82E-07	-1.52E-06	-244	67	-554	310	310	8.51E-07	8.51E-07	-127
7276	7237	191	32918.47	0.015	191.1741	191.5	-5.47E-07	3.34E-07	-1.43E-06	-200	122	-521	322	322	8.81E-07	8.81E-07	-161
7276	7237	192	32918.46	0.014	192.1748	192.5	-1.82E-06	-1.00E-06	-2.64E-06	-665	-366	-965	299	299	8.20E-07	8.20E-07	-45
7276	7237	193	32918.4	0.013	193.1755	193.5	-3.40E-06	-2.61E-06	-4.19E-06	-1242	-954	-1530	288	288	7.90E-07	7.90E-07	-23
7276	7237	194	32918.28	0.013	194.1762	194.5	-5.71E-06	-4.89E-06	-6.53E-06	-2085	-1785	-2384	299	299	8.20E-07	8.20E-07	-14
7276	7237	195	32918.1	0.014	195.1769	195.5	-4.07E-06	-7.35E-06	-8.93E-06	-1486	-2683	-3260	-1198	1774	-3.28E-06	4.86E-06	81
7276	7237	197	32917.83	0.012	197.1783	197.5	-4.04E-06	-3.28E-06	-4.80E-06	-1475	-1198	-1752	277	277	7.59E-07	7.59E-07	-19
7276	7237	198	32917.7	0.013	198.179	198.5	-2.73E-06	-1.97E-06	-3.49E-06	-998	-721	-1275	277	277	7.59E-07	7.59E-07	-28
7276	7237	199	32917.61	0.012	199.1797	199.5	-3.83E-06	-3.13E-06	-4.53E-06	-1397	-1142	-1652	255	255	6.99E-07	6.99E-07	-18
7276	7237	200	32917.48	0.011	200.1804	200.5	-4.10E-06	-3.37E-06	-4.83E-06	-1497	-1231	-1763	266	266	7.29E-07	7.29E-07	-18
7276	7237	201	32917.34	0.013	201.1811	201.5	-3.22E-06	-2.43E-06	-4.01E-06	-1175	-887	-1464	288	288	7.90E-07	7.90E-07	-25
7276	7237	202	32917.24	0.013	202.1818	202.5	-4.07E-06	-3.34E-06	-4.80E-06	-1486	-1220	-1752	266	266	7.29E-07	7.29E-07	-18
7276	7237	203	32917.1	0.011	203.1825	203.5	-4.07E-06	-3.34E-06	-4.80E-06	-1486	-1220	-1752	266	266	7.29E-07	7.29E-07	-18
7276	7237	204	32916.97	0.013	204.1832	204.5	-2.61E-06	-1.85E-06	-3.37E-06	-954	-676	-1231	277	277	7.59E-07	7.59E-07	-29
7276	7237	205	32916.88	0.012	205.1839	205.5	-2.95E-06	-2.25E-06	-3.65E-06	-1076	-821	-1331	255	255	6.99E-07	6.99E-07	-24
7276	7237	206	32916.79	0.011	206.1846	206.5	-3.52E-06	-2.83E-06	-4.22E-06	-1286	-1031	-1541	255	255	6.99E-07	6.99E-07	-20
7276	7237	207	32916.67	0.012	207.1853	207.5	-3.62E-06	-2.89E-06	-4.34E-06	-1320	-1053	-1586	266	266	7.29E-07	7.29E-07	-20
7276	7237	208	32916.55	0.012	208.1859	208.5	-3.04E-06	-2.25E-06	-3.83E-06	-1109	-821	-1397	288	288	7.90E-07	7.90E-07	-26
7276	7237	209	32916.45	0.014	209.1866	209.5	-3.43E-06	-2.58E-06	-4.28E-06	-1253	-943	-1564	310	310	8.51E-07	8.51E-07	-25
7276	7237	210	32916.34	0.014	210.1873	210.5	-4.16E-06	-3.40E-06	-4.92E-06	-1519	-1242	-1796	277	277	7.60E-07	7.60E-07	-18
7276	7237	211	32916.2	0.011	211.188	211.5	-2.64E-06	-1.97E-06	-3.31E-06	-965	-721	-1209	244	244	6.68E-07	6.68E-07	-25
7276	7237	212	32916.12	0.011	212.1887	212.5	-3.71E-06	-3.01E-06	-4.41E-06	-1353	-1098	-1608	255	255	6.99E-07	6.99E-07	-19
7276	7237	213	32915.99	0.012	213.1679	213.5	-3.37E-06	-2.70E-06	-4.04E-06	-1231	-987	-1475	244	244	6.68E-07	6.68E-07	-20
7276	7237	214	32915.88	0.01	214.1686	214.5	-3.16E-06	-5.71E-06	-6.93E-06	-1153	-2085	-2528	-931	1375	-2.55E-06	3.77E-06	81
7276	7237	216	32915.67	0.01	216.17	216.5	-2.98E-06	-2.28E-06	-3.68E-06	-1087	-832	-1342	255	255	6.99E-07	6.99E-07	-23
7276	7237	217	32915.58	0.013	217.1707	217.5	-2.89E-06	-2.04E-06	-3.74E-06	-1053	-743	-1364	310	310	8.51E-07	8.51E-07	-29
7276	7237	218	32915.48	0.015	218.1714	218.5	-2.86E-06	-2.01E-06	-3.71E-06	-1042	-732	-1353	310	310	8.51E-07	8.51E-07	-30
7276	7237	219	32915.39	0.013	219.1721	219.5	-2.61E-06	-1.82E-06	-3.40E-06	-954	-665	-1242	288	288	7.90E-07	7.90E-07	-30
7276	7237	220	32915.3	0.013	220.1728	220.5	-1.26E-06	-1.55E-06	-3.49E-06	-460	-566	-1275	-105	815	-2.89E-07	2.23E-06	23
7276	7237	222	32915.22	0.019	222.1741	222.5	-2.43E-06	-1.09E-06	-3.77E-06	-887	-399	-1375	488	488	1.34E-06	1.34E-06	-55
7276	7237	223	32915.14	0.025	223.1748	223.5	-3.37E-06	-2.10E-06	-4.65E-06	-1231	-765	-1697	466	466	1.28E-06	1.28E-06	-38
7276	7237	224	32915.03	0.017	224.4255	224.5	-2.61E-06	-1.73E-06	-3.49E-06	-954	-632	-1275	322	322	8.81E-07	8.81E-07	-34
7276	7237	225	32914.94	0.012	225.1762	225.5	-2.95E-06	-2.13E-06	-3.77E-06	-1076	-776	-1375	299	299	8.20E-07	8.20E-07	-28
7276	7237	226	32914.84	0.015	226.1769	226.5	-3.83E-06	-2.92E-06	-4.74E-06	-1397	-1065	-1730	333	333	9.11E-07	9.11E-07	-24
7276	7237	227	32914.72	0.015	227.1776	227.5	-4.44E-06	-3.62E-06	-5.26E-06	-1619	-1320	-1918	299	299	8.20E-07	8.20E-07	-18
7276	7237	228	32914.57	0.012	228.1783	228.5	-3.80E-06	-3.04E-06	-4.56E-06	-1386	-1109	-1663	277	277	7.60E-07	7.60E-07	-20
7276	7237	229	32914.45	0.013	229.179	229.5	-1.40E-06	-6.99E-07	-2.10E-06	-510	-255	-765	255	255	6.99E-07	6.99E-07	-50
7276	7237	230	32914.4	0.01	230.1797	230.5	-3.04E-06	-2.46E-06	-3.62E-06	-1109	-898	-1320	211	211	5.77E-07	5.77E-07	-19
7276	7237	231	32914.3	0.009	231.1804	231.5	-2.73E-07	5.16E-07	-1.06E-06	-100	189	-388	288	288	7.90E-07	7.90E-07	-289
7276	7237	232	32914.29	0.017	232.1811	232.5	-1.82E-07	6.38E-07	-1.00E-06	-67	233	-366	299	299	8.20E-07	8.20E-07	-450
7276	7237	233	32914.29	0.01	233.1818	233.5	-4.86E-07	9.11E-08	-1.06E-06	-177	33	-388	211	211	5.77E-07	5.77E-07	-119
7276	7237	234	32914.27	0.009	234.1825	234.5	-1.94E-06	-1.31E-06	-2.58E-06	-710	-477	-943	233	233	6.38E-07	6.38E-07	-33
7276	7237	235	32914.21	0.012	235.1832	235.5	-2.73E-07	3.65E-07	-9.11E-07	-100	133	-333	233	233	6.38E-07	6.38E-07	-233
7276	7237	236	32914.2	0.009	236.1839	236.5	1.64E-06	2.25E-06	1.03E-06	599	821	377	222	222	6.08E-07	6.08E-07	37
7276	7237	237	32914.25	0.011	237.1846	237.5	1.64E-06	2.46E-06	8.20E-07	599	898	299	299	299	8.20E-07	8.20E-07	50
7276	7237	238	32914.31	0.016	238.1853	238.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

7276	7239	142	17564.09	0.011	142.1825	142.5	5.58E-06	6.78E-06	4.38E-06	2037	2473	1600	436	436	1.20E-06	1.20E-06	21
7276	7239	143	17564.19	0.01	143.1832	143.5	5.58E-06	5.68E-06	5.49E-06	2038	2073	2004	35	35	9.49E-08	9.49E-08	2
7276	7239	155	17565.36	0.01	155.17	155.5	5.47E-06	6.60E-06	4.33E-06	1995	2410	1579	416	416	1.14E-06	1.14E-06	21
7276	7239	156	17565.46	0.01	156.1707	156.5	5.64E-06	6.77E-06	4.50E-06	2057	2473	1642	416	416	1.14E-06	1.14E-06	20
7276	7239	157	17565.56	0.01	157.1714	157.5	5.47E-06	6.66E-06	4.27E-06	1995	2431	1558	436	436	1.20E-06	1.20E-06	22
7276	7239	158	17565.66	0.011	158.1721	158.5	5.75E-06	6.95E-06	4.55E-06	2099	2535	1662	436	436	1.20E-06	1.20E-06	21
7276	7239	159	17565.76	0.01	159.1728	159.5	5.52E-06	6.72E-06	4.33E-06	2016	2452	1579	436	436	1.20E-06	1.20E-06	22
7276	7239	160	17565.85	0.011	160.1734	160.5	5.64E-06	6.95E-06	4.33E-06	2057	2535	1579	478	478	1.31E-06	1.31E-06	23
7276	7239	161	17565.95	0.012	161.1741	161.5	5.58E-06	6.89E-06	4.27E-06	2036	2514	1558	478	478	1.31E-06	1.31E-06	23
7276	7239	162	17566.05	0.011	162.1748	162.5	5.64E-06	6.83E-06	4.44E-06	2057	2493	1621	436	436	1.20E-06	1.20E-06	21
7276	7239	163	17566.15	0.01	163.1755	163.5	5.52E-06	6.66E-06	4.38E-06	2016	2431	1600	416	416	1.14E-06	1.14E-06	21
7276	7239	164	17566.25	0.01	164.1762	164.5	5.64E-06	6.77E-06	4.50E-06	2057	2473	1641	416	416	1.14E-06	1.14E-06	20
7276	7239	165	17566.35	0.01	165.1769	165.5	5.64E-06	6.83E-06	4.44E-06	2057	2493	1621	436	436	1.20E-06	1.20E-06	21
7276	7239	166	17566.44	0.011	166.1776	166.5	5.69E-06	6.89E-06	4.50E-06	2078	2514	1641	436	436	1.20E-06	1.20E-06	21
7276	7239	167	17566.54	0.01	167.1783	167.5	5.52E-06	6.66E-06	4.38E-06	2015	2431	1600	416	416	1.14E-06	1.14E-06	21
7276	7239	168	17566.64	0.01	168.179	168.5	5.75E-06	6.89E-06	4.61E-06	2099	2514	1683	416	416	1.14E-06	1.14E-06	20
7276	7239	169	17566.74	0.01	169.1797	169.5	5.69E-06	6.77E-06	4.61E-06	2078	2473	1683	395	395	1.08E-06	1.08E-06	19
7276	7239	170	17566.84	0.009	170.1804	170.5	5.64E-06	6.66E-06	4.61E-06	2057	2431	1683	374	374	1.02E-06	1.02E-06	18
7276	7239	171	17566.94	0.009	171.1811	171.5	5.98E-06	7.12E-06	4.84E-06	2182	2597	1766	416	416	1.14E-06	1.14E-06	19
7276	7239	172	17567.05	0.011	172.1818	172.5	5.52E-06	6.83E-06	4.21E-06	2015	2493	1538	478	478	1.31E-06	1.31E-06	24
7276	7239	173	17567.14	0.012	173.1825	173.5	5.64E-06	7.00E-06	4.27E-06	2057	2556	1558	499	499	1.37E-06	1.37E-06	24
7276	7239	174	17567.24	0.012	174.1832	174.5	5.75E-06	7.06E-06	4.44E-06	2099	2576	1621	478	478	1.31E-06	1.31E-06	23
7276	7239	175	17567.34	0.011	175.1839	175.5	7.06E-06	8.31E-06	5.81E-06	2576	3033	2119	457	457	1.25E-06	1.25E-06	18
7276	7239	176	17567.47	0.011	176.1846	176.5	8.99E-06	1.02E-05	7.74E-06	3283	3740	2826	457	457	1.25E-06	1.25E-06	14
7276	7239	177	17567.63	0.011	177.1853	177.5	1.32E-05	1.45E-05	1.19E-05	4820	5298	4342	478	478	1.31E-06	1.31E-06	10
7276	7239	178	17567.86	0.012	178.1859	178.5	1.17E-05	1.30E-05	1.04E-05	4280	4758	3802	478	478	1.31E-06	1.31E-06	11
7276	7239	179	17568.06	0.011	179.1866	179.5	1.46E-05	1.59E-05	1.33E-05	5339	5817	4862	478	478	1.31E-06	1.31E-06	9
7276	7239	180	17568.32	0.012	180.1873	180.5	1.18E-05	1.31E-05	1.05E-05	4301	4778	3823	478	478	1.31E-06	1.31E-06	11
7276	7239	181	17568.53	0.011	181.188	181.5	1.35E-05	1.47E-05	1.24E-05	4945	5381	4508	436	436	1.20E-06	1.20E-06	9
7276	7239	182	17568.77	0.01	182.1679	182.5	2.19E-05	2.31E-05	2.07E-05	7978	8414	7541	436	436	1.20E-06	1.20E-06	5
7276	7239	183	17569.15	0.011	183.1686	183.5	9.51E-06	1.08E-05	8.20E-06	3469	3947	2992	478	478	1.31E-06	1.31E-06	14
7276	7239	184	17569.32	0.012	184.1693	184.5	7.23E-06	8.59E-06	5.86E-06	2638	3137	2140	499	499	1.37E-06	1.37E-06	19
7276	7239	185	17569.44	0.012	185.17	185.5	6.77E-06	8.14E-06	5.41E-06	2472	2971	1974	499	499	1.37E-06	1.37E-06	20
7276	7239	186	17569.56	0.012	186.1707	186.5	8.94E-06	1.02E-05	7.63E-06	3262	3739	2784	478	478	1.31E-06	1.31E-06	15
7276	7239	187	17569.72	0.011	187.1714	187.5	1.02E-05	1.15E-05	8.99E-06	3739	4196	3282	457	457	1.25E-06	1.25E-06	12
7276	7239	188	17569.9	0.011	188.1721	188.5	1.18E-05	1.30E-05	1.05E-05	4300	4757	3843	457	457	1.25E-06	1.25E-06	11
7276	7239	189	17570.11	0.011	189.1728	189.5	3.52E-05	3.68E-05	3.36E-05	12838	13420	12256	582	582	1.59E-06	1.59E-06	5
7276	7239	190	17570.72	0.017	190.1734	190.5	1.74E-05	1.91E-05	1.57E-05	6336	6959	5713	623	623	1.71E-06	1.71E-06	10
7276	7239	191	17571.03	0.013	191.1741	191.5	9.96E-06	1.15E-05	8.42E-06	3635	4196	3074	561	561	1.54E-06	1.54E-06	15
7276	7239	192	17571.2	0.014	192.1748	192.5	9.90E-06	1.13E-05	8.48E-06	3614	4134	3095	519	519	1.42E-06	1.42E-06	14
7276	7239	193	17571.38	0.011	193.1755	193.5	8.93E-06	1.01E-05	7.74E-06	3261	3697	2825	436	436	1.20E-06	1.20E-06	13
7276	7239	194	17571.54	0.01	194.1762	194.5	6.09E-06	6.72E-06	5.46E-06	2223	2451	1994	228	228	6.26E-07	6.26E-07	10
7276	7239	196	17571.75	0.012	196.1776	196.5	8.54E-06	9.79E-06	7.28E-06	3116	3573	2659	457	457	1.25E-06	1.25E-06	15
7276	7239	197	17571.9	0.01	197.1783	197.5	8.88E-06	9.96E-06	7.80E-06	3240	3635	2846	395	395	1.08E-06	1.08E-06	12
7276	7239	198	17572.06	0.009	198.179	198.5	1.10E-05	1.20E-05	9.96E-06	4009	4383	3635	374	374	1.02E-06	1.02E-06	9
7276	7239	199	17572.25	0.009	199.1797	199.5	9.62E-06	1.06E-05	8.65E-06	3510	3863	3157	353	353	9.67E-07	9.67E-07	10
7276	7239	200	17572.42	0.008	200.1804	200.5	7.97E-06	9.11E-06	6.83E-06	2908	3323	2493	415	415	1.14E-06	1.14E-06	14
7276	7239	201	17572.56	0.012	201.1811	201.5	7.57E-06	8.82E-06	6.32E-06	2763	3219	2306	457	457	1.25E-06	1.25E-06	17
7276	7239	202	17572.69	0.01	202.1818	202.5	6.71E-06	7.80E-06	5.63E-06	2451	2846	2056	395	395	1.08E-06	1.08E-06	16
7276	7239	203	17572.81	0.009	203.1825	203.5	6.09E-06	7.23E-06	4.95E-06	2222	2638	1807	415	415	1.14E-06	1.14E-06	19
7276	7239	204	17572.92	0.011	204.1832	204.5	7.57E-06	8.17E-06	6.97E-06	2762	2981	2544	218	218	5.98E-07	5.98E-07	8
7276	7239	206	17573.18	0.01	206.1846	206.5	7.74E-06	8.93E-06	6.54E-06	2825	3261	2389	436	436	1.19E-06	1.19E-06	15
7276	7239	207	17573.32	0.011	207.1853	207.5	6.83E-06	8.08E-06	5.58E-06	2492	2949	2035	457	457	1.25E-06	1.25E-06	18
7276	7239	208	17573.44	0.011	208.1859	208.5	7.00E-06	8.36E-06	5.63E-06	2555	3053	2056	498	498	1.37E-06	1.37E-06	20
7276	7239	209	17573.56	0.013	209.1866	209.5	5.86E-06	7.28E-06	4.44E-06	2139	2659	1620	519	519	1.42E-06	1.42E-06	24
7276	7239	210	17573.66	0.012	210.1873	210.5	4.72E-06	5.80E-06	3.64E-06	1724	2119	1329	395	395	1.08E-06	1.08E-06	23
7276	7239	211	17573.75	0.007	211.188	211.5	5.58E-06	6.49E-06	4.67E-06	2035	2368	1703	332	332	9.10E-07	9.10E-07	16
7276	7239	212	17573.84	0.009	212.1887	212.5	4.44E-06	5.52E-06	3.36E-06	1620	2015	1225	395	395	1.08E-06	1.08E-06	24
7276	7239	213	17573.92	0.01	213.1679	213.5	4.84E-06	5.92E-06	3.76E-06	1765	2160	1371	395	395	1.08E-06	1.08E-06	22
7276	7239	214	17574.01	0.009	214.1686	214.5	7.20E-06	7.80E-06	6.60E-06	2627	2845	2409	218	218	5.97E-07	5.97E-07	8
7276	7239	216	17574.26	0.012	216.17	216.5	6.37E-06	7.85E-06	4.89E-06	2326	2866	1786	540	540	1.48E-06	1.48E-06	23
7276	7239	217	17574.37	0.014	217.1707	217.5	6.52E-06	7.31E-06	5.72E-06	2378	2669	2087	291	291	7.97E-07	7.97E-07	12
7276	7239	219	17574.6	0.014	219.1721	219.5	8.25E-06	9.50E-06	7.00E-06	3011	3468	2555	457	457	1.25E-06	1.25E-06	15
7276	7239	220	17574.75	0.008	220.1728	220.5	1.78E-05	1.80E-05	1.75E-05	6484	6571	6396	87	87	2.39E-07	2.39E-07	1
7276	7239	225	17576.31	0.013	225.1762	225.5	8.63E-06	9.10E-06	8.15E-06	3150	3323	2977	173	173	4.74E-07	4.74E-07	5
7276	7239	228	17576.76	0.012	228.1783	228.5	1.09E-05	1.25E-05	9.39E-06	3987	4548	3426	561	561	1.54E-06	1.54E-06	14
7276	7239	229	17576.95	0.015	229.179	229.5	-1.57E-05	-1.54E-05	-1.60E-05	-5727	-5624	-5831	104	104	2.84E-07	2.84E-07	-2
7276	7239	234	17575.58	0.01	234.1825	234.5	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!