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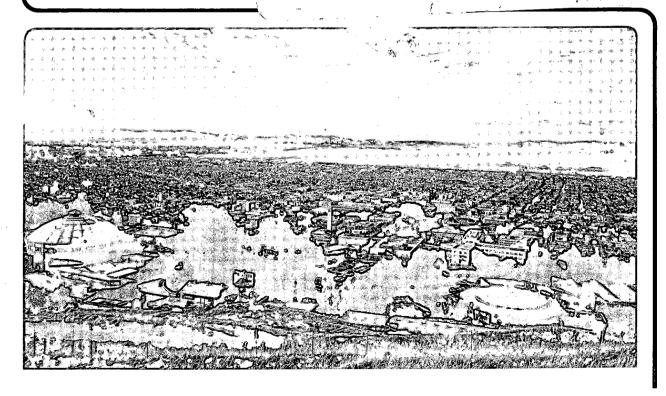
Seismicity of the Southeastern Geysers

C.L. Stark and E.L. Majer

February 1989

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SEISMICITY OF THE SOUTHEASTERN GEYSERS

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Prepared For Geysers Geothermal Company Santa Rosa, California

February 1989

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INTRODUCTION

The interest in seismicity in areas of geothermal development has increased because of a correspondence between microearthquakes and steam extraction for electricity. It is clear that the number of earthquakes increases, and perhaps also their size, with the onset of production, but the exact inducing mechanism is still puzzling (e.g., Oppenheimer, 1986; Allis, 1982). The southeastern section of the steam field, called the South Geysers in this report, is a relatively new production area and few studies of the induced seismicity have been made there.

Areas of high heat flow typically have high microseismicity rates, and conventional, routine processing is very time-consuming and expensive. The Automated Seismic Processor (ASP) was developed to alleviate these difficulties. It is a field-based, low-cost, low-maintenance system which detects and locates earthquakes, then routinely calculates source and statistical parameters, all in almost-real time. It has been shown to be both reliable and effective in the processing of large data sets in geothermal areas as well as in aftershock and other microearthquake studies. A detailed description of ASP operations can be found in McEvilly & Majer, 1982 and Majer & McEvilly, 1985.

The ASP system was installed on May 27, 1987 in the "Chateau Seismique", connected to the temporary seismic array installed and operated by Utah Geophysical, Inc. in the South Geysers area. The array consisted of ten stations, nine single-component vertical and one three-component, covering an area approximately five by eight km (Fig. 1).

ASP analyzed the seismic activity of the South Geysers for 5 months, from June 10 to November 10. A total of 3837 events were detected during that time and 1754 were of sufficient size and quality to be located by ASP. Of these, 1131 earthquakes were found to have epicenters within the map boundaries of interest to Geysers Geothermal Company. These boundaries were chosen to be 1776000 to 1808000 feet East

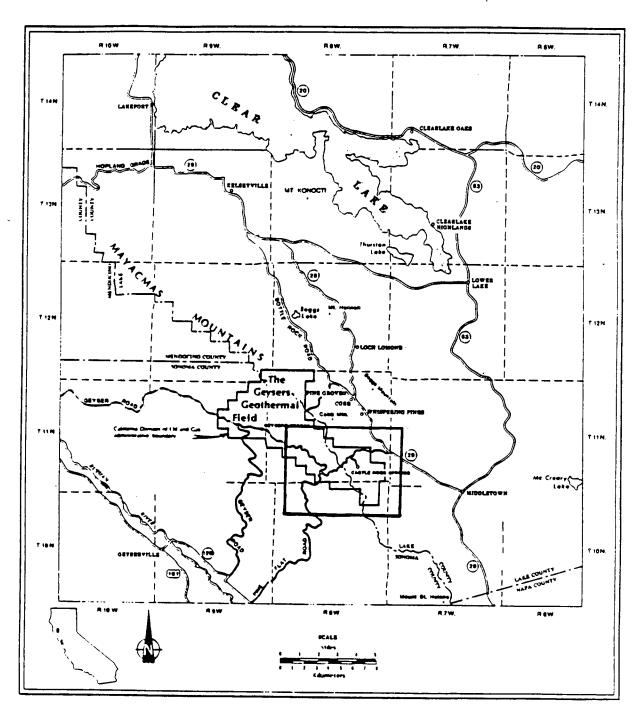


FIGURE 1: Location of The Geysers geothermal field and study area. (after Stockton, 1981)

and 390000 to 414000 feet North, in Lambert Coordinates (38.735 to 38.801 deg Lat and 122.674 to 122.785 deg Long). The data set is continuous except for a three-day period from September 9 to 11, when data was lost due to a misread tape, and the first four days of November, because of a technical problem.

SOURCE PARAMETERS

Method of Calculations.

Fourier transforms for spectral analysis (frequency domain) are calculated by ASP for both the P and S wave portions of recordings made from each station. From these, the long-period spectral level (Ω_o), corner frequency (f_o), and high-frequency roll-off are computed. The averaged source parameters of seismic moment (Mo), source radius (r), stress drop ($\delta\sigma$), and fault slip (u) of the event are then estimated using the formulas developed by Brune (1970, 1971):

 $Mo = 4\pi RdV^3\Omega$

 $r = 2.34 V/2 \pi f_0$

 $\delta \sigma = 7 \text{Mo}/16 \text{r}$

 $u = Mo/\pi dV^2$

in which R is the hypocentral distance, d is the density and V is the velocity.

The source parameters are listed in Appendix A in order of earthquake occurrence, along with the number of P-wave arrivals which were used in the analysis. This number of recordings is a measure of the quality of the parameters; they were computed from each trace's spectrum and then averaged. The least number of P-wave arrivals is 5, which is the minimum for calculation of hypocenters.

Only the computations from P spectra are listed in Appendix A; the S-wave picks on most events were few in number because few recordings met the quality standards. This was due to the fact that nine of the stations only recorded in the vertical direction, whereas most S-wave ground motion is in the horizontal direction.

Moment.

The seismic moment is the most direct measure we have of the strength, or size of an earthquake. It is taken from moment arms in physics, and represents the forces associated with slip along a fault plane with an equivalent system of torques. Since it is directly related to the source, it is also the best indicator of energy release. The

units are dyne-cm, or force times distance, which are units of work or energy. The seismic moment is also equal to the rigidity of the rock times the area ruptured times the average displacement during the rupture.

Besides being a better measure of earthquake size than magnitude, a major advantage of working with moments is that they can be summed for total moment (energy) release. The disadvantage is that the numbers are large and difficult to work with. Often the log of the moment is used instead, for individual earthquakes or sums.

The log of the moment for each event in this study is included in the event listing of Appendix B. The moments ranged from 2.7 X 10¹² to 1.2 X 10²⁰ dyne-cm for individual events. Also computed were the daily moment sums which are listed in Table 5 with daily earthquake counts, and are discussed in the section on temporal occurrence.

Magnitude.

The seismic moments (Mo) calculated by ASP were converted into magnitudes equivalent to the local, or Richter magnitude (M), using a formula empirically derived especially for the Geysers area (Majer & McEvilly, 1979):

$$log(Mo) = 15.9 + 1.3M.$$

Magnitudes of the located events within the study area ranged from -2.6 to 3.2. Table 1 lists the total number of earthquakes with magnitudes in each half-magnitude interval. Most events (92%) have magnitudes between 0.5 and 2.0, with almost half falling in the range between 1.0 and 1.5.

Completeness of the data set in terms of lower magnitude level is empirically determined by plotting the entire set on a plot of log number of events greater than a given magnitude versus that magnitude. The points are regressed by a line with the equation:

$$log(N) = a - bM$$

for the slope b, which is called the b-value. At some magnitude, there is significant

TABLE 1
EQ COUNTS IN MAGNITUDE INTERVALS

magn interval	no of eqs
# < -1.Ø	2
-1.Ø < # < -Ø.5	Ø
-Ø.5 < # < Ø.Ø	3
Ø.Ø < # < Ø.5	29
Ø.5 < # < 1.Ø	241
1.Ø < # < 1.5	521
1.5 < # < 2.Ø	281
2.Ø < # < 2.5	44
2.5 < # < 3.Ø	9
3.Ø < # < 3.5	1
3.5 < # < 4.Ø	Ø
4.Ø < #	Ø

departure from the line, which means that fewer earthquakes of that magnitude were recorded than would be expected. Thus the data set is considered complete down to that magnitude. The b-value plot for this study is shown in Figure 2. This set is complete down to magnitude 1.0.

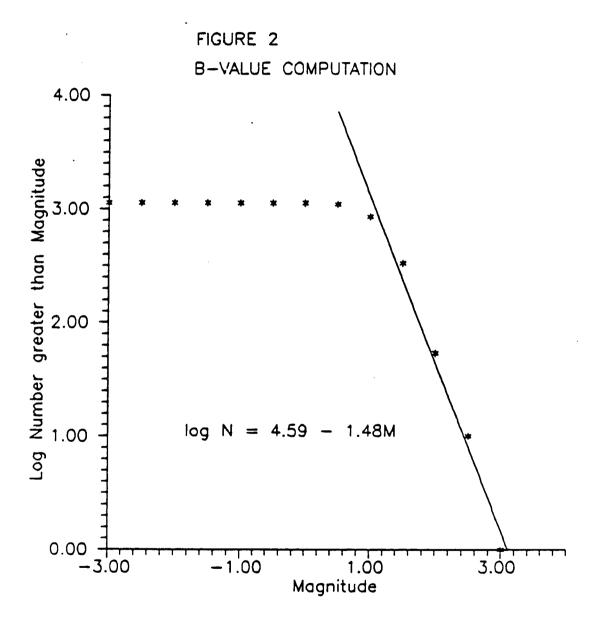
The b-value thus obtained is 1.5. Regionally, the b-value averages around 0.8. The high value in the South Geysers means there were more small events and fewer large ones than expected overall in California, which is consistent with observations. Similarly high b-values in other areas of the Geysers have been seen (e.g., Ludwin and Bufe, 1980; Majer and McEvilly, 1979). Extrapolation of the line predicts a magnitude 4 event every 9 years and a magnitude 5 event every 270 years in the study area, assuming there is a large enough fault area available for slip.

Source Radius.

The source radius of an event is an estimation of the size of its rupture as approximated by a circle on a planar surface. This would seem to be a good approximation for small events which do not rupture the entire width of the seismogenic zone.

The event with the largest source radius within the study area was recorded on October 25. Its estimated circu-lar area had a radius of 483 meters (1585 ft). A few of the small events have radii that went to small negative numbers, which are obviously physically unreasonable, and can be considered to be small positive numbers within the error bounds of this type of analysis. The average rupture radius in the data set was 76.7 m (252 ft).

The radaii were converted to rupture areas and summed to find a total fracture area of $2.59 \times 10^4 \text{ km}^2$ ($2.79 \times 10^8 \text{ kft}^2$). Doubling the radii gives an estimate of the total equivalent fault length of 173 km (567.2 kft). This measure, however, is more arbitrary because of varying fault width.



Stress Drop.

The stress drop is a measure of the change in shear stress on a fault due to an earthquake, i.e., the initial stress minus the final stress. The stress drops calculated for these events are in the range expected for microearthquakes, averaging 0.8 bars. The largest one was associated with an earthquake that occurred on October 24, and it is unusually high for the size of the event, measuring 13.8 bars. All others ranged from near 0 to 6.5 bars. The total stress relieved by these 1131 earthquakes is estimated to be 941 bars.

Displacement.

Displacement is the amount of movement on a fault plane by the sides moving past each other. In microearthquakes, displacements are very small, and those estimated here are no exception. They average 0.014 cm and range from near zero to 0.3 cm. The total displacement from the data set is 16.1 cm.

HYPOCENTER LOCATIONS

Method of Calculation.

ASP has a digital, triggered event detector which counts all events with accepted criteria and locates those which trigger a minimum number of stations and have P and S wave qualities above a minimum level. For a location to be made in this study, at least 5 stations had to trigger from an earthquake and each have a P-wave amplitude of at least 5 times the background noise. For S-wave picks to be used in the locations, their amplitudes had to exceed the noise by a factor of 8, and exceed the P wave amplitude by a factor of 3 as well. These strict conditions under which events were located ensured that only the best-recorded earthquakes were used. The automatic picking of wave arrivals with very good signal-to-noise ratios also eliminated the subjective bias which is often introduced by hand-picking these arrivals.

ASP calculates hypocenter locations using a non-linear, least-squares method with a velocity model comprised of one layer that has linear P and S wave velocity gradients, over a half-space with constant velocities. The velocities chosen for this study are presented in Table 2. All locations are listed in Appendix B in order of occurrence. The times are Universal Time; to convert to local time, subtract 7 hours during Daylight Savings and 8 hours during normal time. The hypocenter locations are in feet, Lambert Coordinates.

Qualities.

The earthquake locations are assigned a quality factor based on the standard error of the residuals in the location computations. Those chosen for this study are listed in Table 3 and the quality of each event included in the event listing in Appendix B.

TABLE 2: VELOCITY MODEL

	P wave	S wave
surface velocity	2.0 km/s	1.7 km/s
gradient in layer	Ø.5 km/s/km	Ø.25 km/s/km
depth to interface	5.Ø km (-13,482	2 ft elevation)
half-space velocity	5.0 km/s	3.1 km/s

TABLE 3: LOCATION QUALITY FACTORS

km error of latitude & longitude (LE)	km error of depth (DE)	quality factor
Ø.Ø < LE < Ø.1	Ø.Ø < DE <u><</u> 1.Ø	a
Ø.1 < LE < Ø.5	1.Ø < DE < 2.Ø	Ъ
Ø.5 < LE < 1.Ø	2.Ø < DE < 5.Ø	С
 1.Ø < LE	5.Ø < DE	d

Epicenter Distribution.

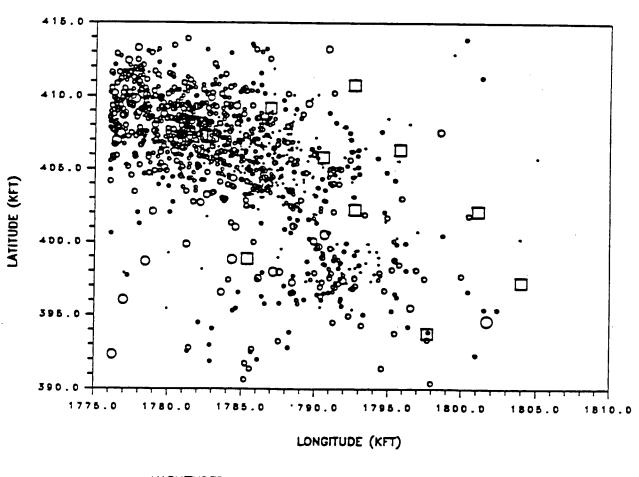
The distribution of all the earthquake epicenters located in the study area can be seen in Figure 3. The highest concentrations of events lie scattered in a band which trends northwest-southeast, with less dense regions in the northeast and southwest. Most of the events occurred in the northwestern portion of the array and further to the northwest outside the array. Another cluster is seen in the southern array area and a dearth of events separates the two main groups in an east-west stripe through the center of the array. The largest earthquake (M = 3.2) occurred in the southeast corner of the array in an otherwise sparse region, and several other relatively large events (M = 2.5-3.0) took place in the sparse region to the southwest.

The earthquakes are plotted for each four-week period and the last two-week period in Figures 4a-f. During the first period (6/10-7/7), the seismicity was distributed over the entire area, with a few small clusters in the northwest region outside the array. The second period (7/8-8/4) had fewer events in the northwest and southwest regions. There was a large cluster of activity just north-west of the array, and a small cluster at (1786 kft E, 404 kft N). During the third and fourth periods (Figs. 4c and 4d), mostly scattered seismicity was recorded, including the largest event in the southeast corner of the array and two other large events in the southwest corner of the region. The last 4-week period (Fig. 4e) has several distinct northwest-trending lineations extending through the array.

The distribution of these events was studied in relation to their sizes. Figures 5a-d are plots of all events in different magnitude ranges. From these plots it can be seen that up to M=2, the distribution within the array is similar for each magnitude range. Above that level, however, the events appear to be skewed to the west. Of the ten events with M>2.5, seven are located west of the array.

Figure 6 is a plot of only events with A, B, or C quality, which keeps the epicentral error within one km (3.28 kft). The pattern is much the same. Figure 7 is a plot of only A and B quality events, further refining the data set to events which have epicentral errors of less than 0.5 km (1.64 kft). Most of the largest events have been

SOUTH GEYSERS EARTHQUAKES ALL EVENTS



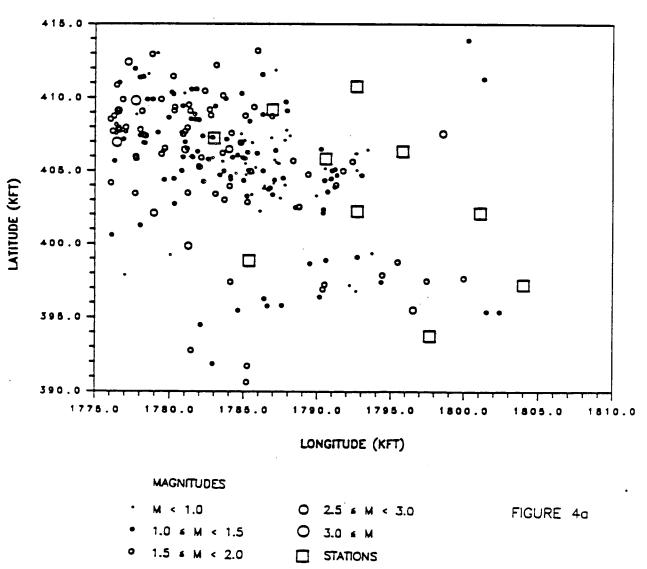
MAGNITUDES

- M < 1.0
- U. 23 5 M < 3.0

FIGURE 3

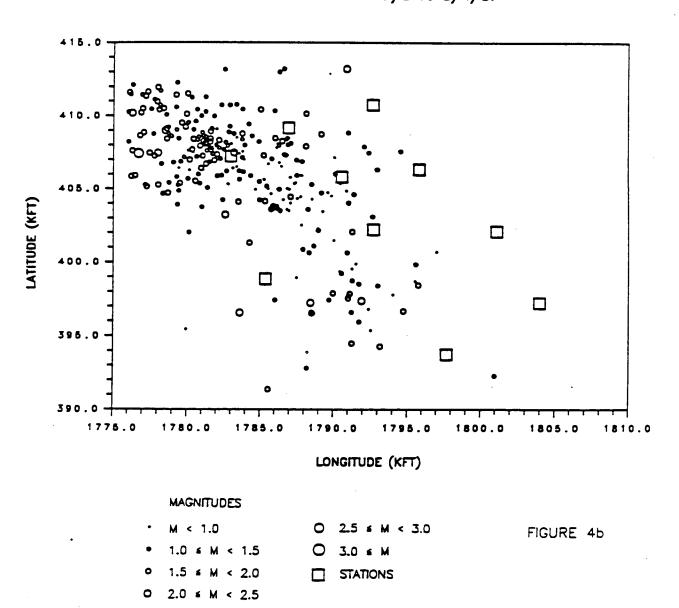
- 1.0 & M < 1.5
- O 3.0 6 M
- 0 1.5 \$ M < 2.0
- ☐ STATIONS
- O 2.0 ≤ M < 2.5

SOUTH GEYSERS EARTHQUAKES ALL EVENTS FROM 6/10 TO 7/7/87

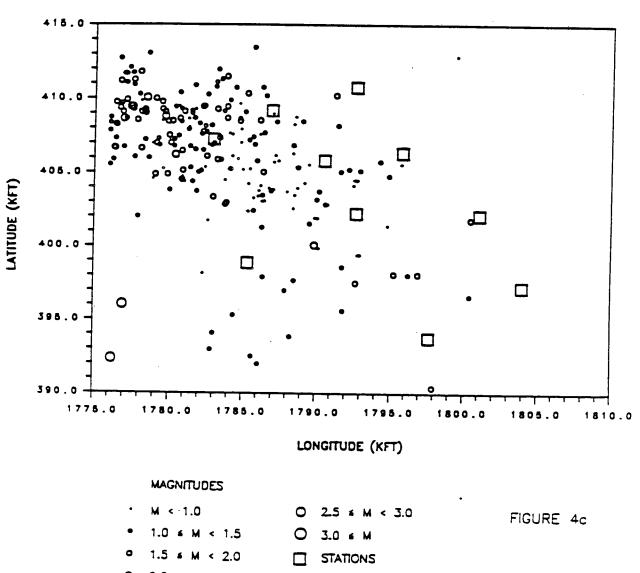


O 2.0 & M < 2.5

SOUTH GEYSERS EARTHQUAKES ALL EVENTS FROM 7/8 TO 8/4/87

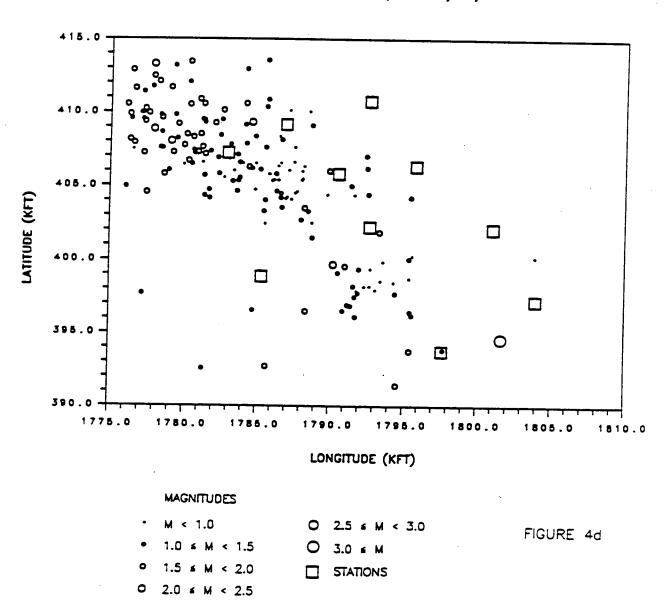


SOUTH GEYSERS EARTHQUAKES ALL EVENTS FROM 8/5 TO 9/1/87

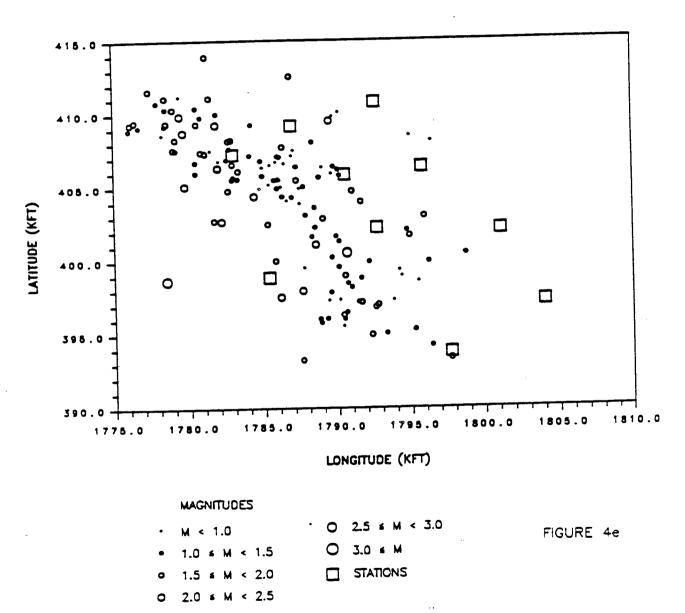


0 2.0 s M < 2.5

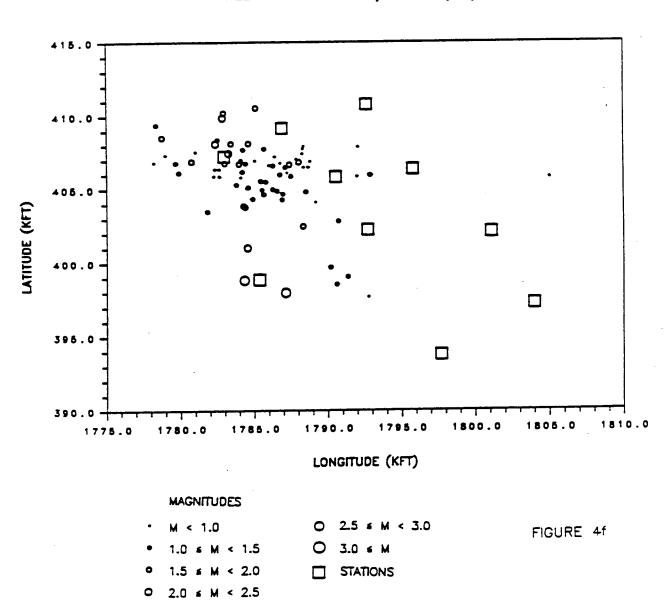
SOUTH GEYSERS EARTHQUAKES ALL EVENTS FROM 9/2 TO 9/29/87



SOUTH GEYSERS EARTHQUAKES ALL EVENTS FROM 9/30 TO 10/27/87



SOUTH GEYSERS EARTHQUAKES ALL EVENTS FROM 10/28 TO 11/10/87



SOUTH GEYSERS EARTHQUAKES ALL EVENTS WITH MAGN LESS THAN 1.0

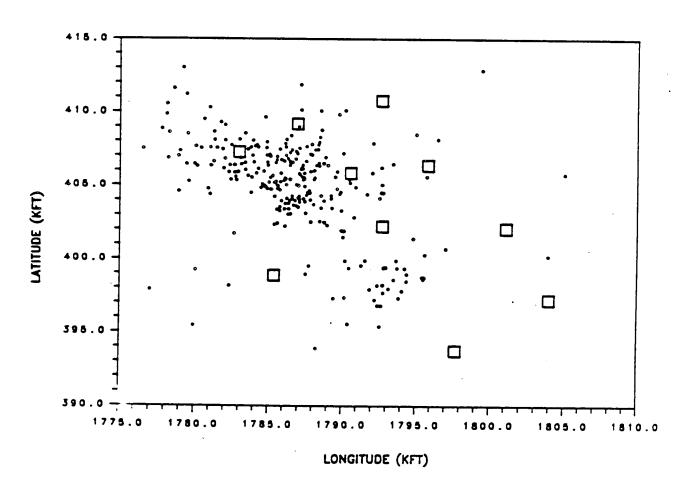


FIGURE 5a

SOUTH GEYSERS EARTHQUAKES ALL EVENTS WITH MAGN BETWEEN 1.0 AND 1.5

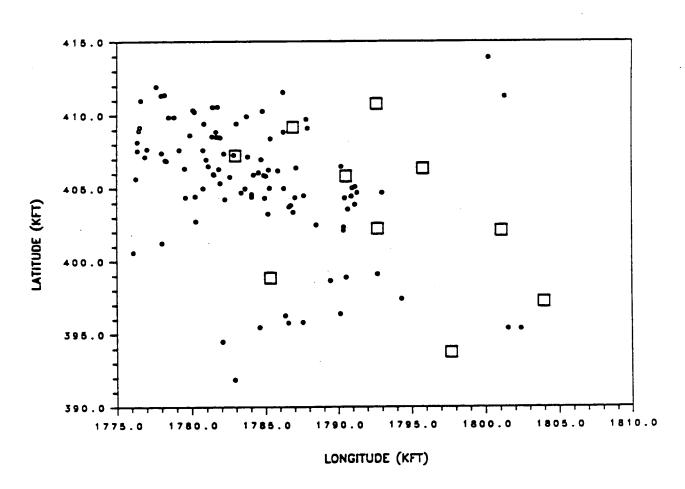


FIGURE 5b

SOUTH GEYSERS EARTHQUAKES ALL EVENTS WITH MAGN BETWEEN 1.5 AND 2.0

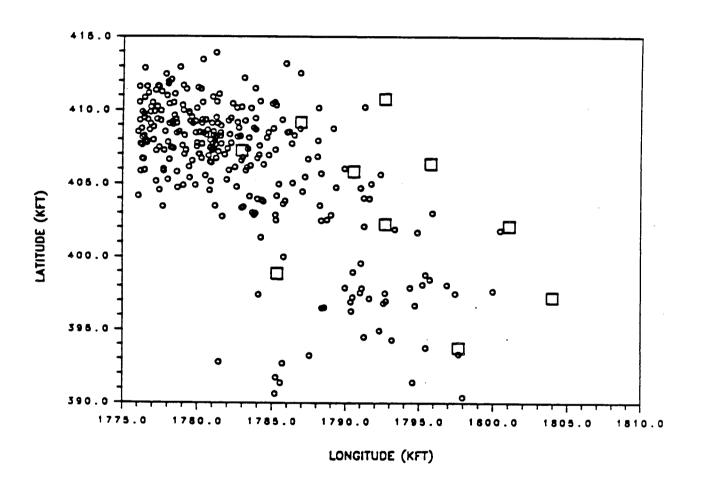


FIGURE 5c

SOUTH GEYSERS EARTHQUAKES ALL EVENTS WITH MAGN GREATER THAN 2.0

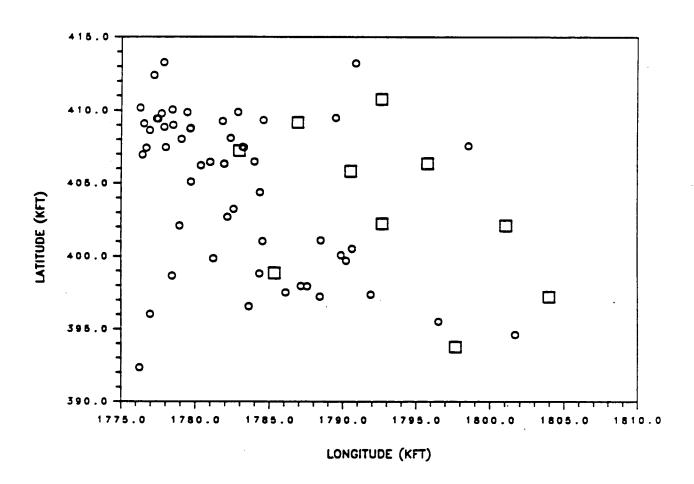
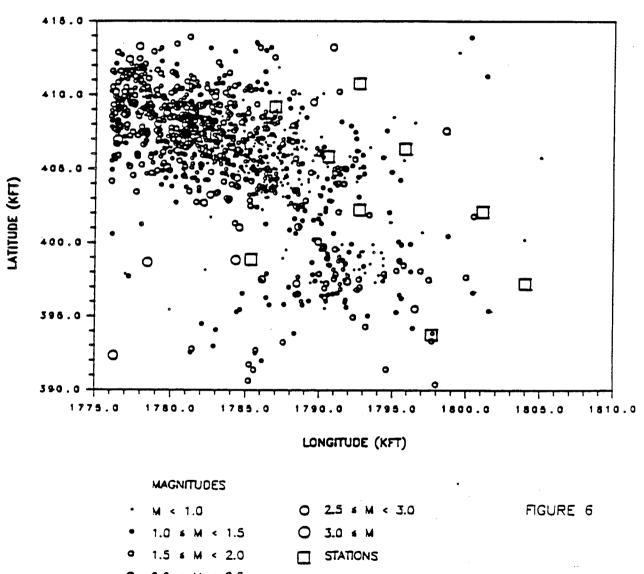


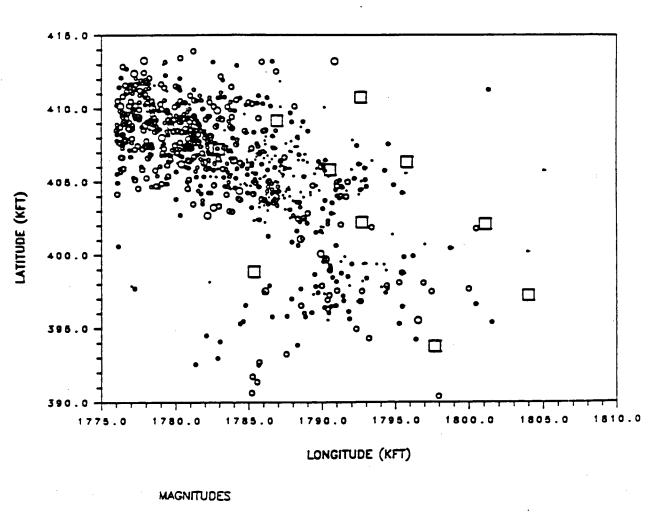
FIGURE 5d

SOUTH GEYSERS EARTHQUAKES ALL EVENTS WITH A.B. OR C QUALITY



0 2.0 s M < 2.5

SOUTH GEYSERS EARTHQUAKES ALL EVENTS WITH A OR B QUALITY



- M < 1.0
- 1.0 s M < 1.5
- 9 1.5 ≤ M < 2.0
- 0 2.0 s M < 2.5
- D 25 ≤ M < 3.0
- O 3.0 6 M
- O 3.5 ...
 - ZNOITATZ [

FIGURE 7

eliminated, and a striking northwest-trending boundary is apparent, which separates a more dense population to the southwest from a less dense region to the northeast. This boundary seems to continue into the southern array and connect with a group of events which form a linear pattern there. This feature corresponds rather well with the trace of the Sulphur Creek fault zone, which extends across the study area in a northwest to southeast direction, and is a major structural feature of the region. Lithologic or fracture differences, or changes in reservoir characteristics across the fault, could be investigated as possible causes of this seismic density boundary.

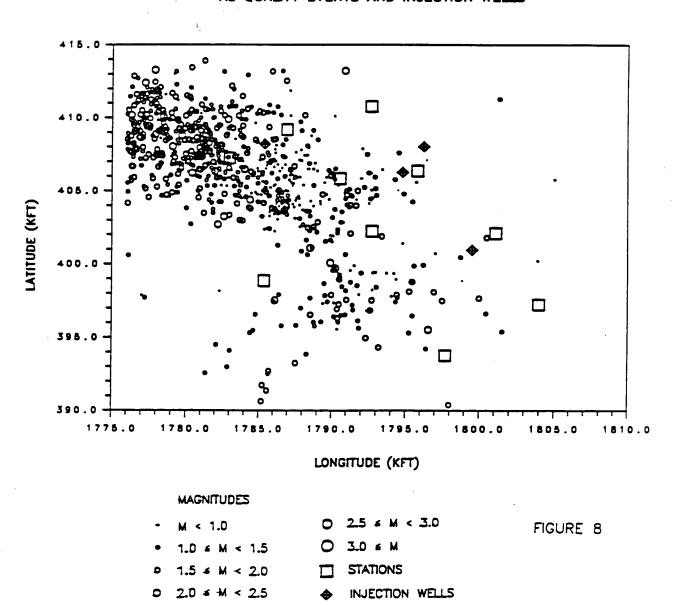
Correlation with Injection Wells.

In Figure 8 the injection well locations provided by Geysers Geothermal are plotted along with stations and quality A and B seismicity. There is no obvious spatial correlation between these wells and the earthquakes. If injection plays a role in the induction process it has been difficult to detect by spatial correlation (e.g., Eberhart-Phillips and Oppenheimer, 1984).

Depth Distribution.

Depths of foci generally have the largest errors in location because it is the third dimension that absorbs most of the problems caused by such things as an inaccurate velocity model or errors in time picks. The use of an automated picker minimizes the time errors due to human variation, but can introduce systematic errors. The velocity model chosen for this study may be slightly on the slow side compared with other studies, which would tend to pull earthquakes shallower, but this would again produce a systematic error so that the locations relative to each other are nonetheless expected to be very good. No one-dimensional velocity model accommodates the lateral variations in velocity and Poisson's ratio which undoubtedly exist in this area.

SOUTH GEYSERS EARTHQUAKES AB QUALITY EVENTS AND INJECTION WELLS

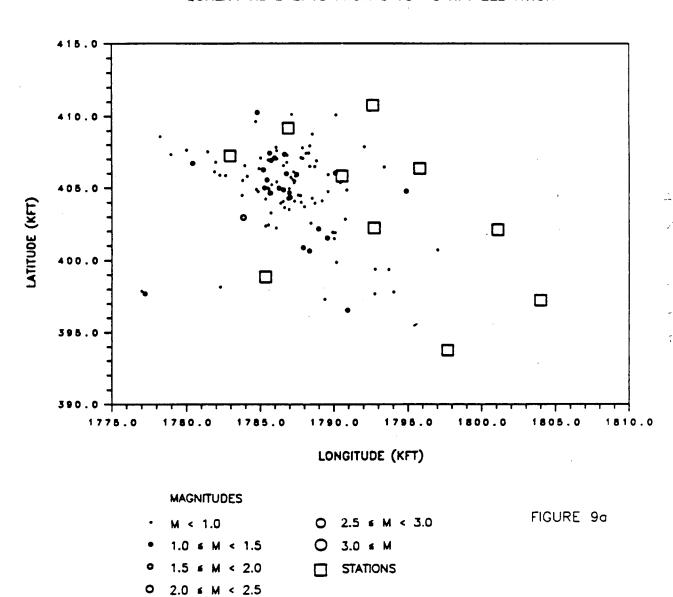


General changes in the distribution of events with depth are apparent in Figures 9a-d, for A and B quality events. All depths are in kft sea level elevation. The shallowest earthquakes occurred mostly in a loose cluster in the northwestern part of the array. As the depth increases, this group spreads out until, in the range -10 to -15 kft, there are very few events in that area, most of them surrounding it. Contrary to this pattern, the deepest group seems uniformly scattered.

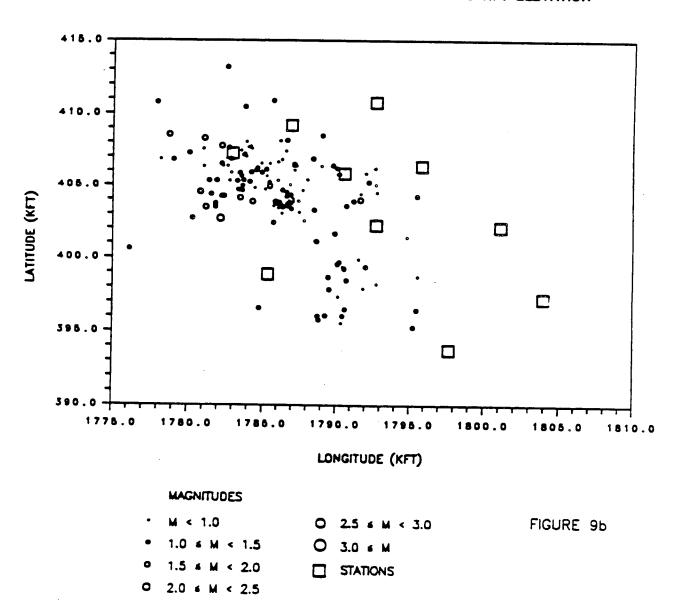
The numbers of earthquakes with A or B quality in 5 kft elevation ranges are listed in Table 4. The seismic activity peaks in the range of -10 to -15 kft, and drops off quickly as the depth increases. Also listed are magnitude distributions in each depth range. The shallowest earthquakes, above 0 kft elevation, are all M<1.0, and from 0 to -5 kft, 74% fall in this magnitude range. The fraction of these small events decreases with each depth range until there are only 7% in the range -10 to -15 kft. and none deeper than 20 kft. It is to be expected that more small earthquakes will be recorded closer to the recording sites at the surface, and since this data set is complete only down to the M=1.0 level, this decrease with depth is not significant. However, there is a definite tendency for magnitudes to get larger with depth in the range for which the set is complete. There are no earthquakes between magnitude 1.0 and 1.5 at the shallowest level, increasing to about half in the three depth ranges from -5 to -20 kft, then decreasing markedly below that. Larger events are absent down to -5 kft, and increase steadily until 59% of the deepest events are between magnitude 1.5 and 2.0, and 24% are above magnitude 2.0. This difference in size between shallow and deeper events is significant and may, for example, be related to a change in mechanism, increasing size of fracture systems, or increasing apparent strength of the rock due to an increase in normal stress with depth.

The entire data set with qualities A, B, and C are plotted in cross-sections in north-south, east-west, north-east-southwest, and northwest-southeast directions in Figures 10a-d. Many events are located at -13.5 kft and few in the 2 kft just below. This is an artifact of the location algorithm and not a feature of the seismicity. The interface between the layer and the half-space in the velocity model is at that depth, and it is more stable to locate them just above than just below the interface. This is a

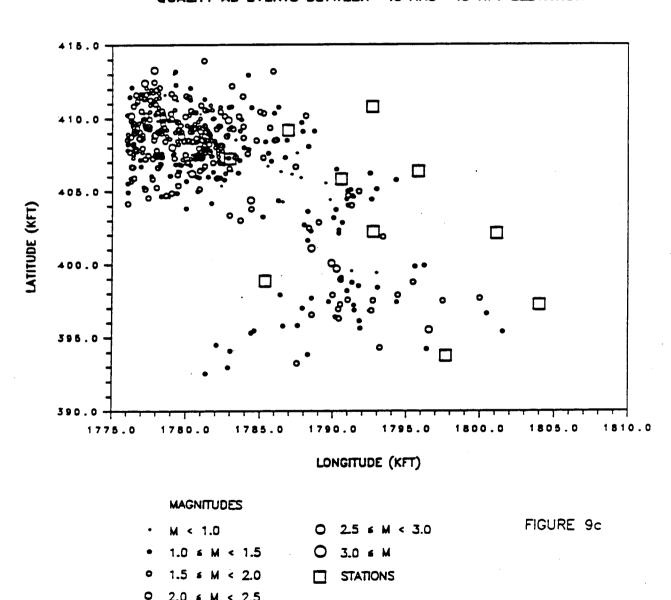
SOUTH GEYSERS EARTHQUAKES QUALITY AB EVENTS FROM 5 TO -5 KFT ELEVATION



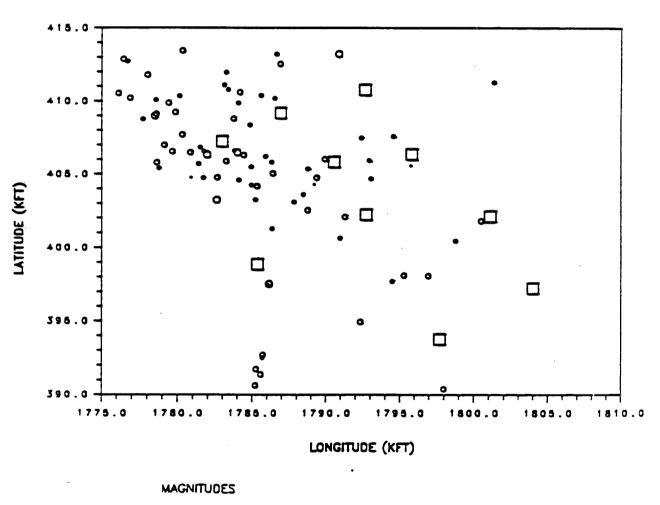
SOUTH GEYSERS EARTHQUAKES QUALITY AB EVENTS BETWEEN -5 AND -10 KFT ELEVATION



SOUTH GEYSERS EARTHQUAKES QUALITY AB EVENTS BETWEEN -10 AND -15 KFT ELEVATION



SOUTH GEYSERS EARTHQUAKES QUALITY AB EVENTS DEEPER THAN -15 KFT ELEVATION



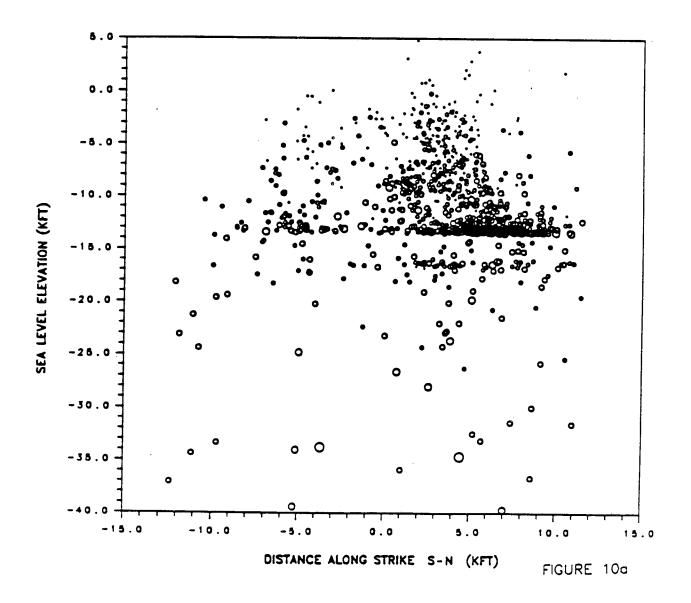
- M < 1.0
- 1.5 & M < 2.0
- $2.0 \le M < 2.5$
- 3.0 s M
- ☐ STATIONS

FIGURE 9d

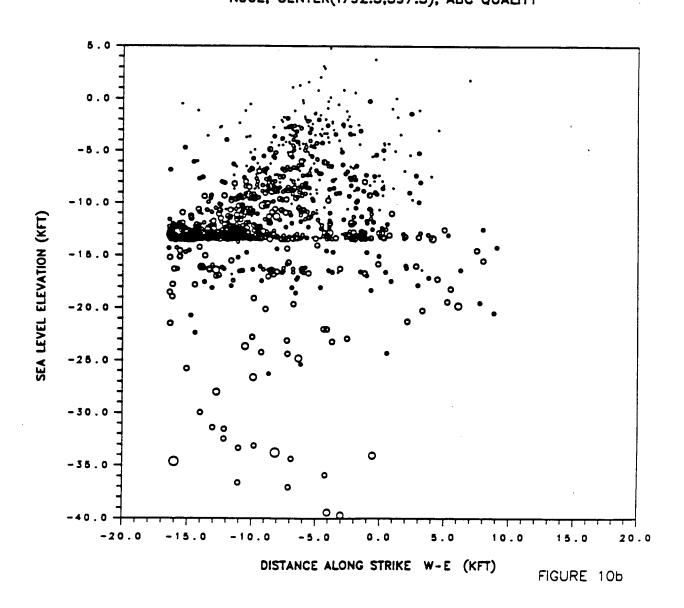
TABLE 4
EARTHQUAKE COUNTS WITH DEPTH, AB QUALITY

Elev (kft)	Total	M<1.Ø	1.Ø <m<1.< th=""><th>5 1.5<m<2.ø< th=""><th>2.Ø<m< th=""></m<></th></m<2.ø<></th></m<1.<>	5 1.5 <m<2.ø< th=""><th>2.Ø<m< th=""></m<></th></m<2.ø<>	2.Ø <m< th=""></m<>
5 to Ø	12	12	ø	Ø	Ø
Ø to -5	1Ø3	76	27	Ø	Ø
-5 to -1Ø	147	58	78	1Ø	1
-1Ø to -15	433	29	224	16Ø	2Ø
-15 to -2Ø	65	3	34	26	2
-2Ø+	17	Ø	3	1Ø	4

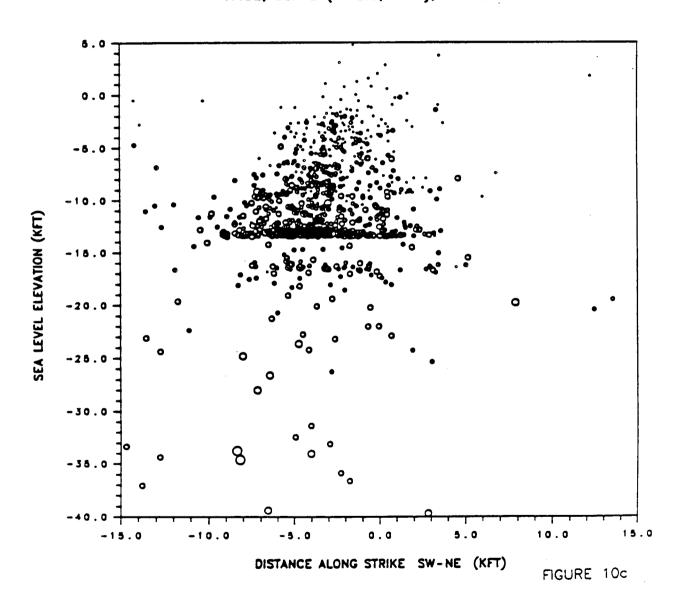
SOUTH GEYSERS EARTHQUAKES
NOOE, CENTER(1792.5,402.5), ABC QUALITY



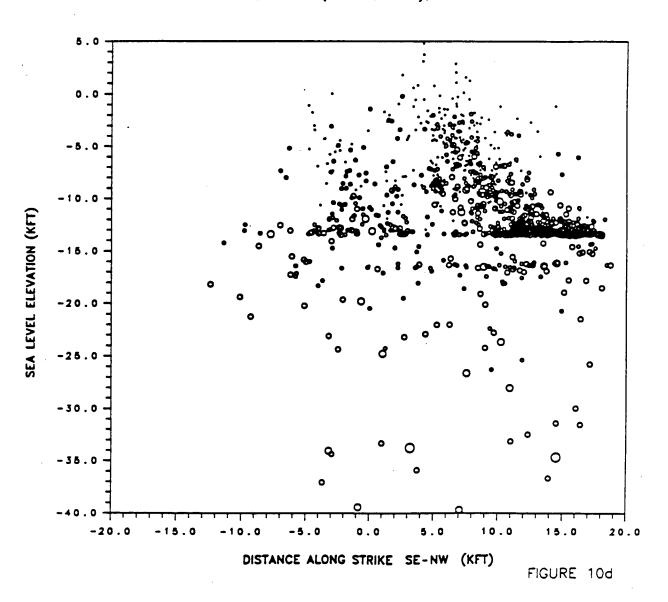
SOUTH GEYSERS EARTHQUAKES N90E, CENTER(1792.5,397.5), ABC QUALITY



SOUTH GEYSERS EARTHQUAKES
N45E, CENTER(1792.5,402.5), ABC QUALITY



SOUTH GEYSERS EARTHQUAKES N45W, CENTER(1792.5,402.5), ABC QUALITY



common problem in hypocentral locations, and only stands out well here because so many events happened to occur in that depth range. Some of the events that are grouped above the halfspace can be imagined to spread into the area just below it which has few earthquakes.

These plots reveal a strong outline to the seismicity which seems to dome inside the array, the shallowest part near the array center. The dropoff in the north and west directions is very distinct, whereas the boundary to the south and east is less so, perhaps because there are fewer events, but the trend can still be seen. The northeast-southwest section in Figure 10c is almost perpendicular to the map trend of seismicity with a viewpoint along strike and reveals the narrowest dome of seismicity with a clear dropoff in both directions. Interestingly, in this direction the linear feature seen in Figure 7, and discussed in the section on epicenter distributions, would extend through the peak of this dome and along its long axis in the north-west direction. A rough contour sketch from these plots showing the upper bound of seismicity can be seen in Figure 11.

A correspondence of this domal shape and the geological structure or reservoir conditions in the region would seem likely. The depth to the felsite body underlying the array, as determined by well logs (Beall, 1988), has been contoured and found to have a moderately-elongate dome-like shape with a peak very close to that of the seismicity. The felsite unit has a steeper side on the east than the west, also similar in shape to the pattern of seismicity, but tends to drop off less steeply overall. The distribution of shallowest steam also corresponds with the shallowest felsite and seismicity (Beall, 1988). The possibility also exists that the strong lateral velocity inhomogeneity of this region, perhaps again due to the intrusive body, affected the locations enough to produce this dome-like feature.

In the section which is nearly along the strike of map trends (Fig. 10d), a lack of earthquakes forms a band across the plot at an angle similar to the outer boundary on the northwest, forming the two groups of seismicity. This is seen in map view as a band trending east-northeast across the center of the array. Many events appear in

CONTOURS OF UPPER SEISMICITY BOUNDARY KFT ELEVATION

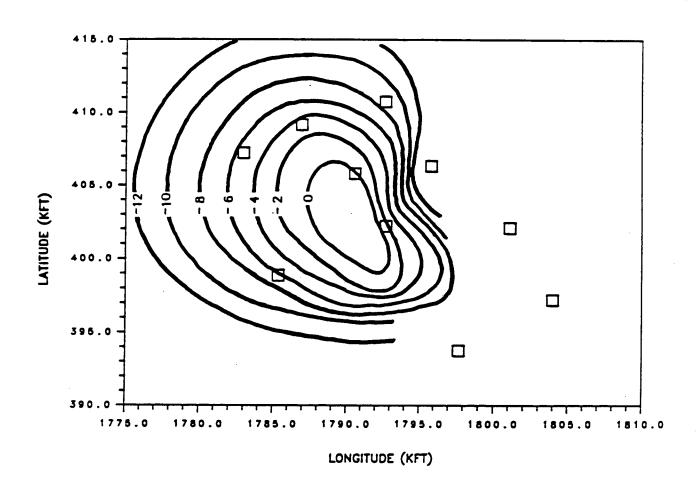
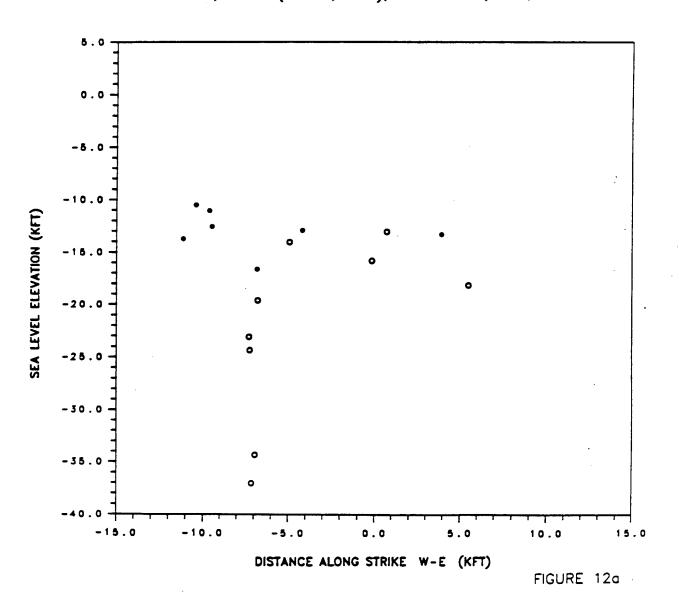


FIGURE 11

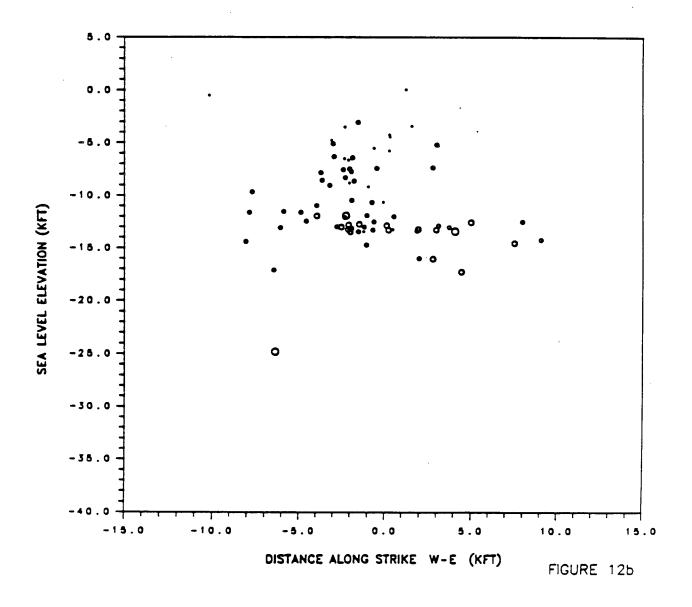
short, linear groups of 3-10 events, which may reflect the fracture system. There are a number of small clusters, the most outstanding one situated at 1786.5 kft E and 404 kft N inside the array. It can also be seen in cross-section on Fig. 10d at 5 kft northwest and -9 kft elevation.

Plots in Figures 12a-e and 13a-e are 5kft thick sections in east-west and north-south directions respectively, using only A and B quality events. More interesting features emerge. In Figure 13b, there is an isolated group of 7 events just outside the array in the southwest which are the same size and close to the same distance apart from each other. They are separated from the northern group, which has a sharp boundary to its southern end that dips steeply to the north. Figure 13c also shows north-dipping trends, and it can be seen that the close cluster at about 403 kft N, mentioned in the epicenter section, is tight in depth as well. A line of 5 larger, deeper events extend straight down on the east-west section near the southern end of the study area (Fig. 12a). They can also be seen in the north- south section (Fig. 13c), where they appear almost linear as well, as if they fractured a long, thin planar area with dimensions of about 20 by 3 kft.

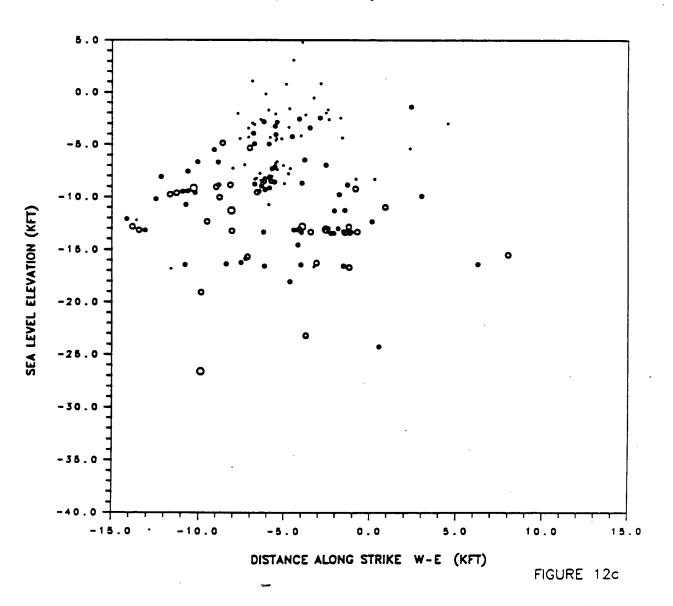
SOUTH GEYSERS EARTHQUAKES N90E, CENTER(1792.5,392.5), 5 KFT THICK, AB QUALITY



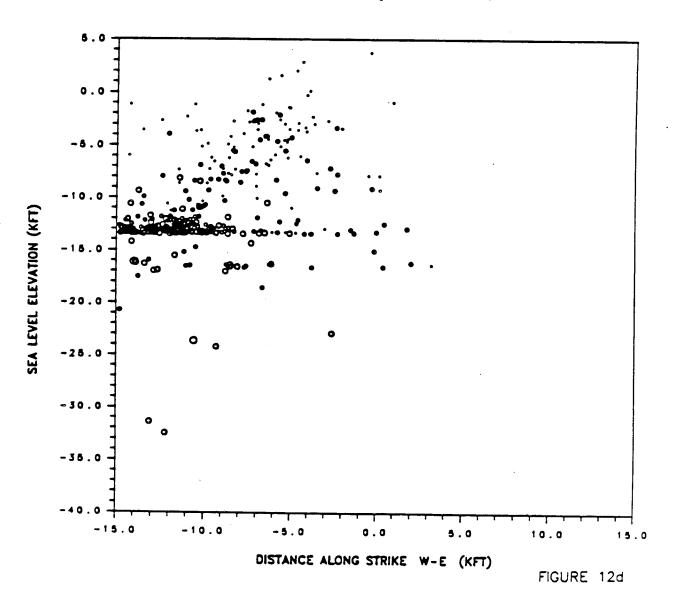
SOUTH GEYSERS EARTHQUAKES
N90E, CENTER(1792.5,397.5), 5 KFT THICK, AB QUALITY



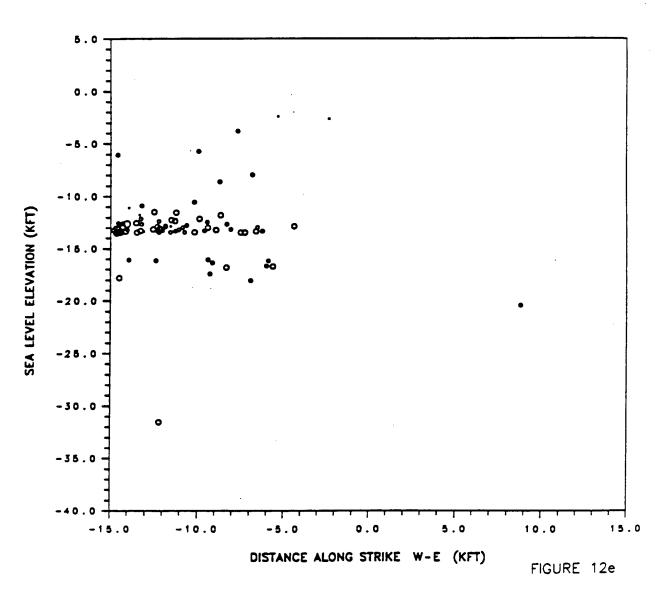
SOUTH GEYSERS EARTHQUAKES N90E, CENTER(1792.5,402.5), 5 KFT THICK, AB QUALITY



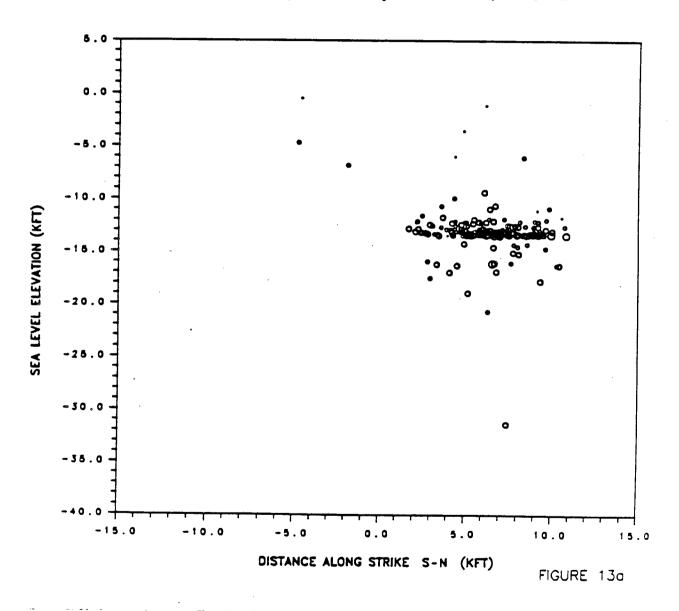
SOUTH GEYSERS EARTHQUAKES N90E, CENTER(1792.5,407.5), 5 KFT THICK, AB QUALITY



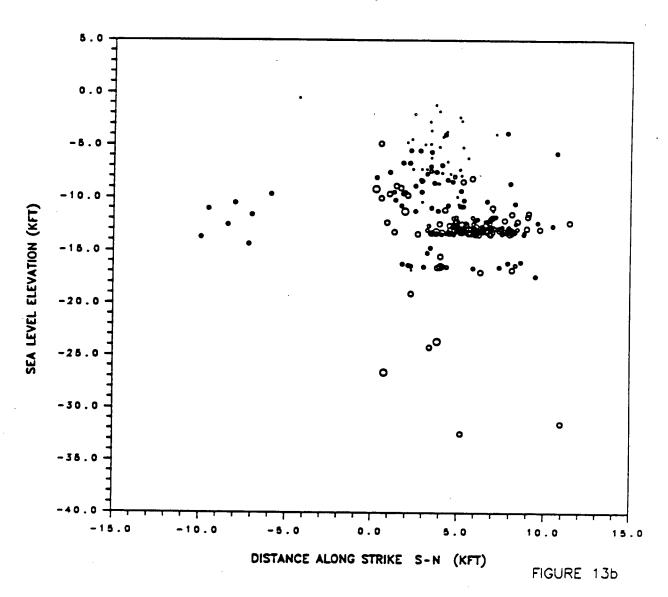
SOUTH GEYSERS EARTHQUAKES N90E, CENTER(1792.5,412.5), 5 KFT THICK, AB QUALITY



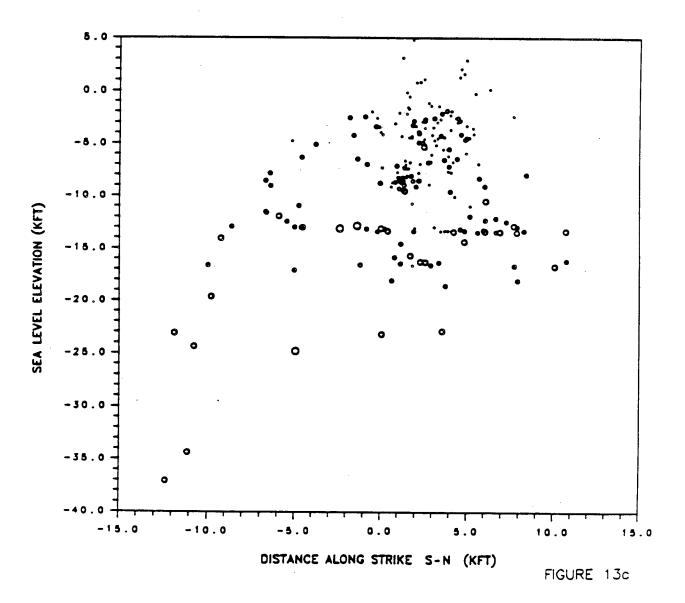
SOUTH GEYSERS EARTHQUAKES NOOE, CENTER(1777.5,402.5), 5 KFT THICK, AB QUALITY



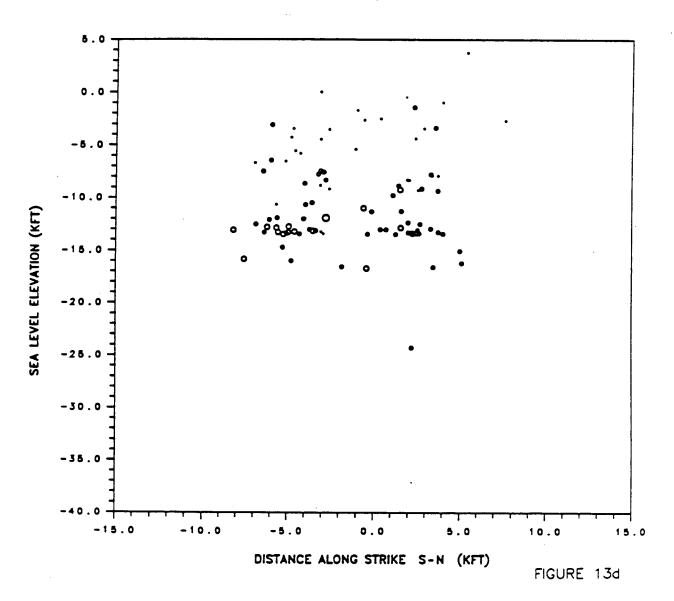
SOUTH GEYSERS EARTHQUAKES NOOE, CENTER(1782.5,402.5), 5 KFT THICK, AB QUALITY



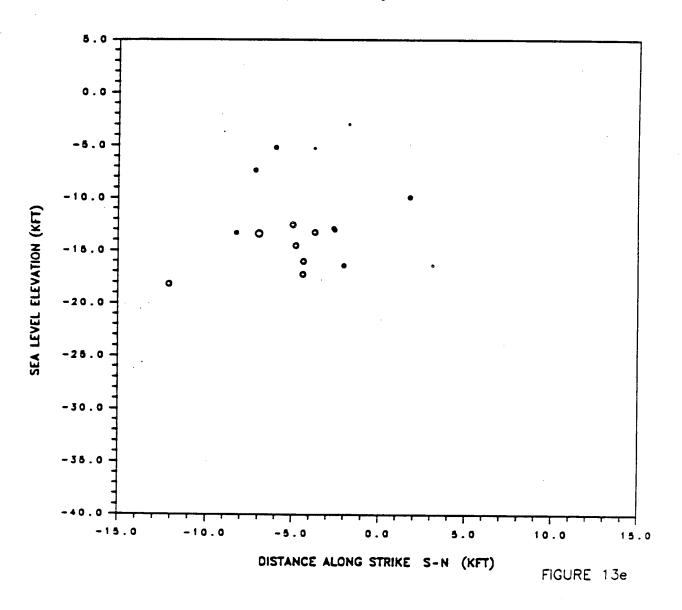
SOUTH GEYSERS EARTHQUAKES NOOE, CENTER(1787.5,402.5), 5 KFT THICK, AB QUALITY



SOUTH GEYSERS EARTHQUAKES NOOE, CENTER(1792.5,402.5), 5 KFT THICK, AB QUALITY



SOUTH GEYSERS EARTHQUAKES NOOE, CENTER(1797.5,402.5), 5 KFT THICK, AB QUALITY



TEMPORAL OCCURRENCE

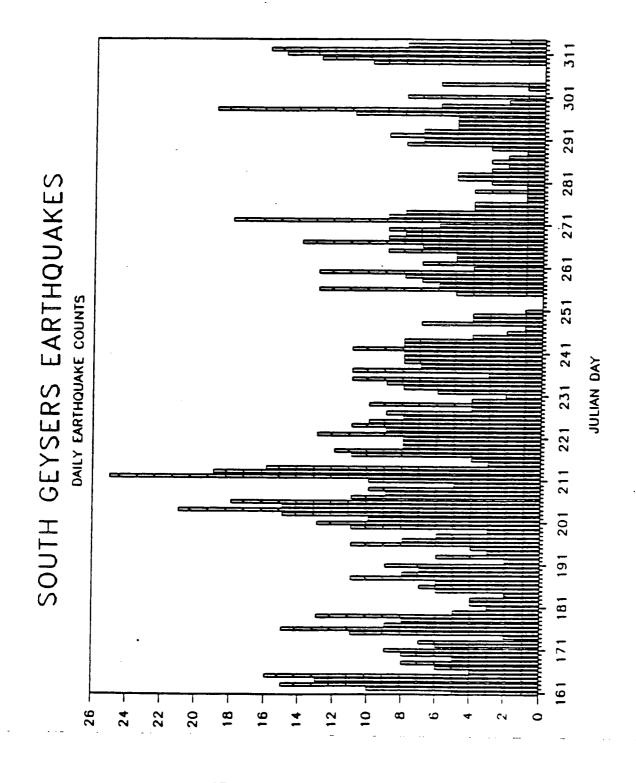
Daily Sums.

There are two major methods used when studying the temporal occurrence of earthquakes. One is simply a count of the number of events in given time periods; the other is a sum of the energy or moment associated with the events in those time periods. Each reveal characteristics which may be missed when using one or the other. Plots of earthquake counts assume that each earthquake has the same weight, whereas we know that larger earthquakes usually rupture a larger area and release more energy, and so are more important. (An increase in one magnitude level corresponds to an increase in energy release of about 30.) The moment sum accounts for this, but may also be so dominated by large events that the smaller ones, which could be occurring in critical places, are lost. It is, therefore, most informative to look at a combination of the two.

The daily earthquake counts were summed from only the events which were successfully located within the study area, and are plotted in Figure 14. The moments of all of these earthquakes in each day were summed and plotted in Figure 15. Both are listed in Table 5. The most active time during the recording period was 7/9 to 8/2 (200-214 JD), with peaks on 7/23 of 21 events and 7/31 of 25 events. A few days had only one event, which were the smallest counts, and the average rate was 7.85 per day with a population standard deviation of 4.48.

The moment rate was 7.9 X 10¹⁸ dyne-cm per day, and a comparison between these two plots reveals that the log of moment release was more constant than the number of daily earthquakes. Except for a few solitary peaks due to the largest events, the log moment sum appears fairly flat. A low level of activity corresponds well with low moment sums 10/2 to 10/15 (275-288 JD). The greatest activity from 7/19 to 8/2 doesn't show up on the moment plot, indicating that though there were more events than average then, they were small and did not release more energy than usual.

FIGURE 14



NOMBER OF EARTHQUAKES

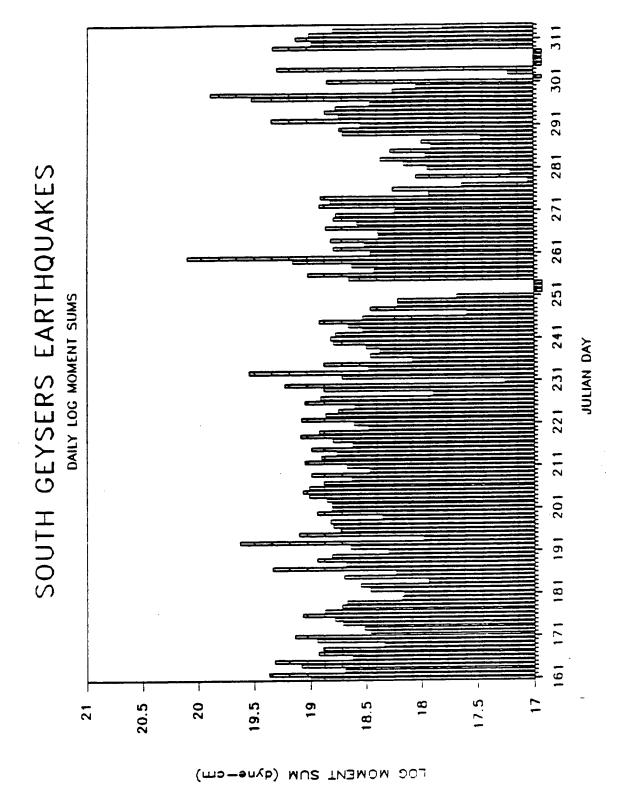


FIGURE 15

DAILY EARTHQUAKE COUNT & MOMENT SUMS

Julian day	date	no. of events	moment sum	log mom sum
161	610	5	0.101E+20	19.00
162	611	10	0.237E+20	19.37
163 164	612 613	15 13	0.490E+19 0.120E+20	18.69 19.08
165	614	16	0.207E+20	19.32
166	615	4	0.418E+19	18.62
167	616	6	0.847E+19	18.93
168 169	617 618	8 5	0.770E+19	18.89
170	619	8	0.219E+19 0.861E+19	18.34 18.94
171	620	9	0.139E+20	19.14
172	621	6	0.291E+19	18.46
173	622	7 2	0.330E+19	18.52
174 175	623 624	11	0.515E+19 0.601E+19	18.71 18.78
176	625	15	0.118E+20	19.07
177	626	9	0.734E+19	18.87
178	627	8	0.520E+19	18.72
179 180	628 629	13 5	0.467E+19 0.150E+19	18.67 18.18
181	630	3	0.130E+19 0.145E+19	18.16
182	7 1	4	0.287E+19	18.46
183	7 2	4	0.356E+19	18.55
184 185	7 3 7 4	2 6	0.864E+18 0.503E+19	17.94
186	7 5	7	0.303E+19 0.170E+19	18.70 18.23
187	76	6	0.217E+20	19.34
188	7 7	11	0.480E+19	18.68
189 190	78 79	8 7	0.871E+19	18.94
191	710	9	0.644E+19 0.199E+19	18.81 18.30
192	711	2	0.434E+19	18.64
193	712	6	0.426E+20	19.63
194 195	713 714	3 4	0.959E+18	17.98
196	715	11	0.125E+20 0.537E+19	19.10 18.73
197	716	8	0.619E+19	18.79
198	717	6	0.654E+19	18.82
199	718	.3	0.224E+19	18.35
200 201	719 720	11 13	0.867E+19 0.651E+19	18.94 18.81
202	721	10	0.639E+19	18.81
203	722	15	0.715E+19	18.85
204	723	21	0.102E+20	19.01
205 206	724 725	15 18	0.118E+20 0.102E+20	19.07 19.01
207	726	11	0.755E+19	18.88
208	727	9	0.422E+19	18.63
209	728	10	0.985E+19	18.99
210 211	729 730	5 10	0.297E+19	18.47
212	731	25	0.471E+19 0.113E+20	18.67 19.05
213	8 1	19	0.801E+19	- 18.90
214	8 2	16	0.571E+19	18.76
215 216	8 2 8 3 8 4	3 4	0.970E+19	18.99
216	8 4 8 5	11	0.417E+19 0.628E+19	18.62 18.80
218	8 6	12	0.123E+20	19.09
219	8 7	8	0.829E+19	18.92

289	1016	3	0.510E+19	18.71
290	1017	8	0.554E+19	18.74
291	1018	7	0.356E+19	18.55
292	1019	9	0.226E+20	19.35
293	1020	7	0.548E+19	18.74
294	1021	5	0.746E+19	18.87
295	1022	5	0.583E+19	18.77
296	1023	5	0.294E+19	18.47
297	1024	11	0.336E+20	19.53
298	1025	19	0.778E+20	19.89
299	1026	6	0.183E+19	18.26
300	1027	2	0.112E+19	18.05
301	1028	8	0.713E+19	18.85
303	1030	1	0.170E+18	17.23
304	1031	6	0.199E+20	19.30
309	11 5	10	0.217E+20	19.34
310	11 6	13	0.977E+19	18.99
311	11 7	15	0.133E+20	19.13
312	11 8	16	0.103E+20	19.01
313	11 9	8	0.615E+19	18.79
314	1110	2	0.641E+18	17.81

Periodicities.

A relatively simple method for searching a time series for possible periodicities is the calculation of its power density spectrum. This estimates the power at each frequency. In this study, the number of earthquakes which occurred per time interval were summed throughout the data. The resulting series was used in an analysis of periodic trends in the earthquake occurrence, with the idea that any cycles found may be related to natural or production-related activities which happen at regular intervals.

Continuous time series are required for the calculation of power spectra, so the data set had to be divided into two parts to accommodate missing data. Part one covers the time period from 6/11 to 9/7 and part two from 9/13 to 10/27. The spectra from these two time series were stacked to note the dominant periodicities which were constant throughout the study. The longest periods (lowest frequencies) which can be distinguished from the spectrum are limited by the length of the continuous data, because several periods must be sampled. The shortest periods (highest frequencies) are determined by the sampling interval, in this case the interval of time over which the earthquakes are summed.

Figure 16 is the power density spectrum for the two parts combined, using time intervals of 12 hours (0.5 days). Each peak which is seen to be above the noise is at a frequency which has more power than surrounding frequencies. A sine wave in the time series trans-forms to a spike in the frequency domain, so each peak can be interpreted as a possible cyclic variation in the seismicity. The peaks of interest are located at frequencies of 0.02, 0.075, 0.125, 0.16, 0.38, and 0.76 cycles per day, corresponding to periods of 50, 13.3, 8, 6.3, 2.6, and 1.3 days.

Further study of possible causes of these cycles, both natural and production-related, may be productive. Cross-correlations of this occurrence series with other non-periodic processes which may be triggering events may also reveal interesting connections which could lead to a better understanding of the earthquake-induction processes.

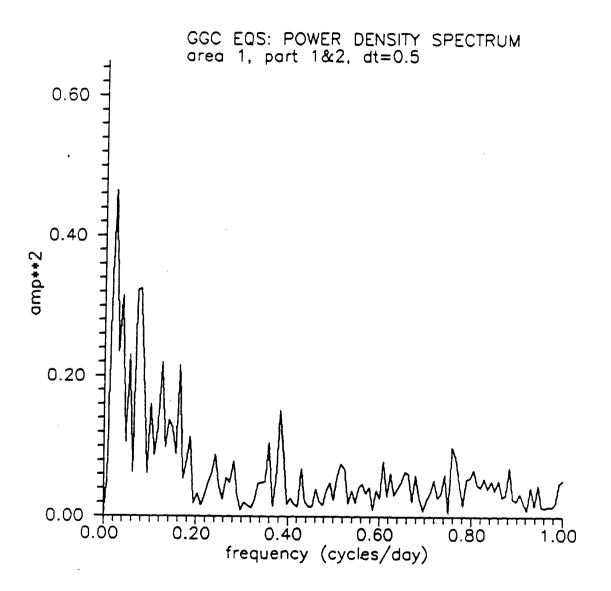


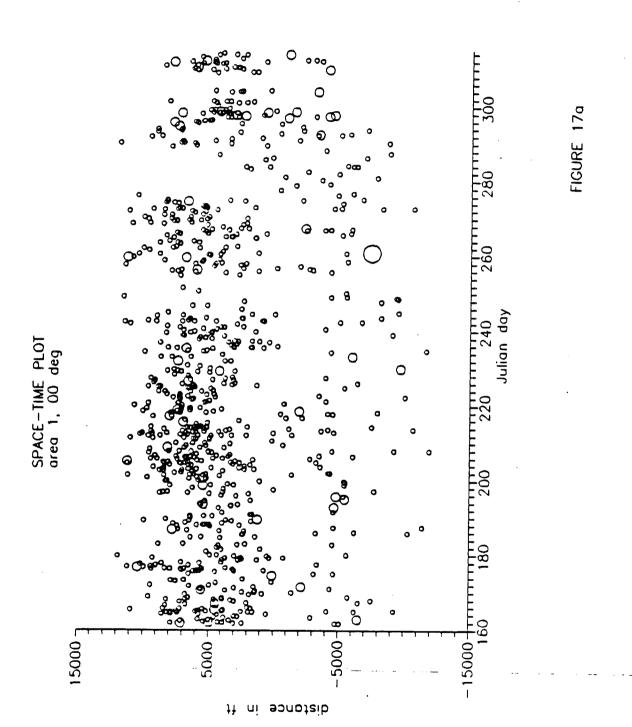
FIGURE 16

Migration.

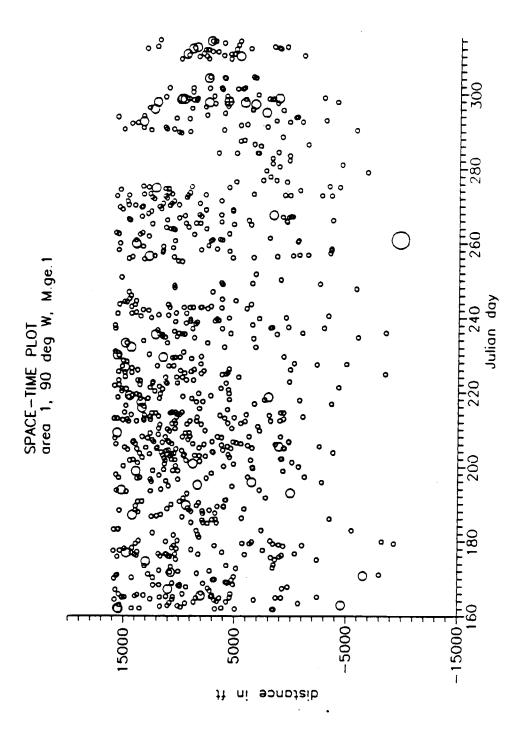
Space-time plots were made by projecting all events of interest onto one vertical plane and plotting events along the linear map view of that plane as a function of time. These plots are useful for studying clusters of events in space and time, and also the migration of events from one place to another. Migration, especially of moderate to large events, is currently a topic of interest in earthquake seismology because of its implications in earthquake prediction and in the understanding of triggering mechanisms. One proposed mechanism for migration in California is stress waves, or creep waves, propagating northwestward from the spreading center in Baja California toward the subduction zones near Alaska (Savage, 1971). These spreading events could be triggering ruptures which are ripe to happen along their paths.

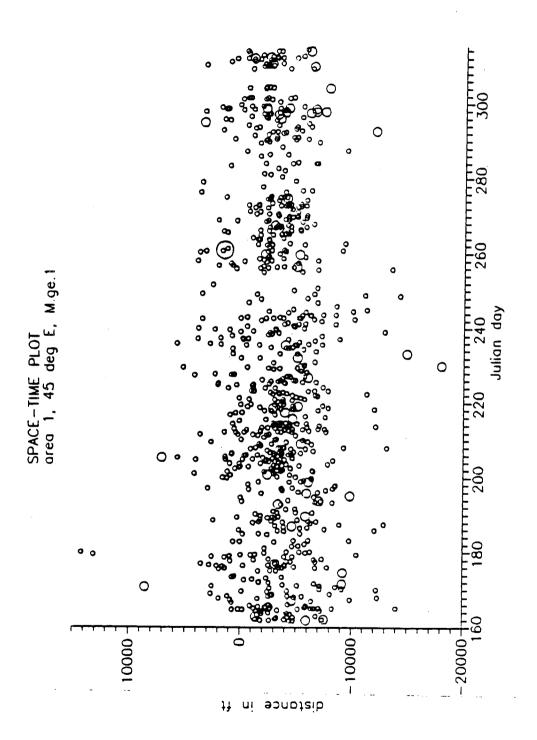
These microearthquakes, because of their size and relation to human activities, may exhibit not only migration patterns related to the regional California trends, but also local migration trends due to activities at the wells and the local fracture systems connected with them. Local pore pressure changes and stress changes propagating from/to wells or possibly from the local hydrothermal system may be important earthquake triggers in the geothermal environment.

To investigate possible trends on the local level, space-time plots were made in four directions, striking north-south, west-east, northeast-southwest, and northwest-southeast. All events greater than one were used in these plots, shown in Figures 17a-d. Local migration would look like linear trends which could be in any direction, rows of events occurring one after another in a line. The slope of the lines would give the rate of migration (i.e., strain pulse). There are many lineations in the data, but they are most numerous on the plot trending west-east (Fig. 17b), where the linear clusters seem to be the rule rather than the exception. This is especially true for the first three months of continuous data. Many of the clusters have events that are close to each other, having occurred a few hours apart; others are more spread out. The significance of this west to east and east to west migration is not immediately obvious, and could be investigated on smaller scales.



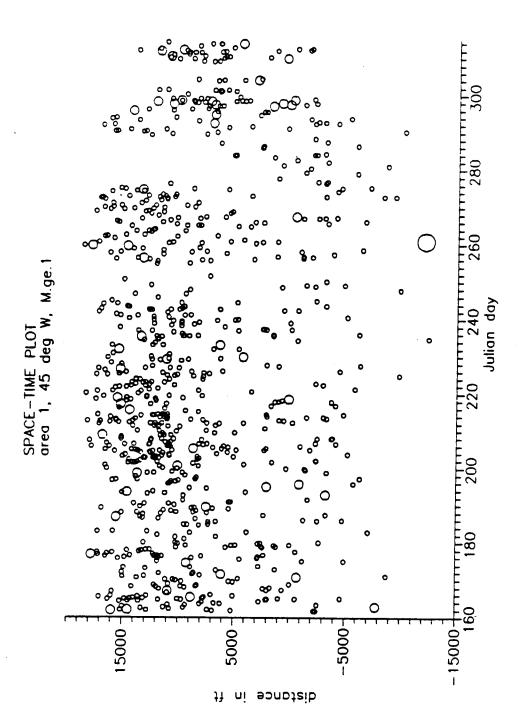






IGURE 17c





Regional epicentral migration would maintain a fairly constant slope in the space-time plots, with events lined up at nearly the same angle for many cycles, which can overlap in time. The larger events are more likely to show such trends, and are plotted (M>2) in Figures 18a-d. There is no regional migrational trend apparent in the projections along east-west, northeast-southwest, or northwest-southeast, but in the north-south plot there is a hint of one from south to north. Events can be linked with a slope corresponding to about 56 km/yr (183 kft/yr), shown in Figure 19. According this interpretation, there were six migration sequences during the continuous first part of the data set, averaging 18 days apart. The south-to-north direction and the rate are not unreasonable in light of other estimates for migration of larger earthquakes in California (Savage, 1971; Ma and King, 1988).

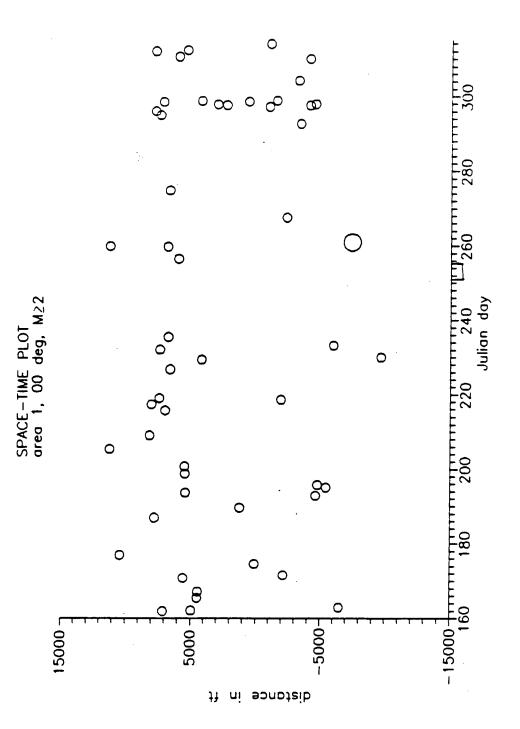
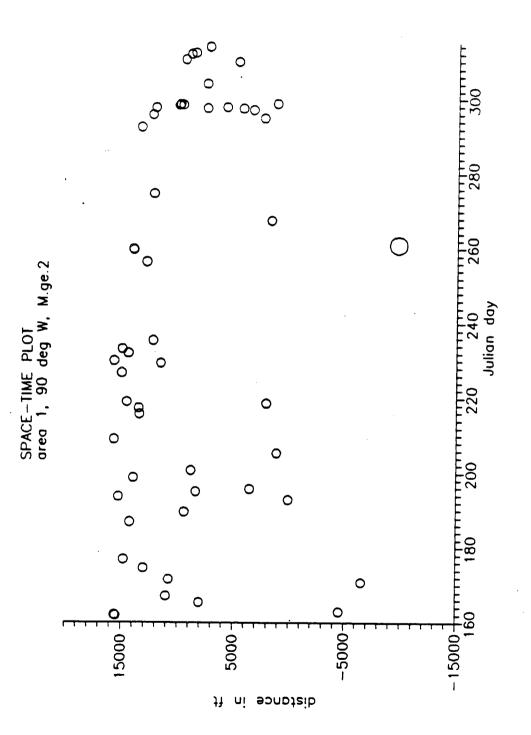


FIGURE 18a

FIGURE 18b



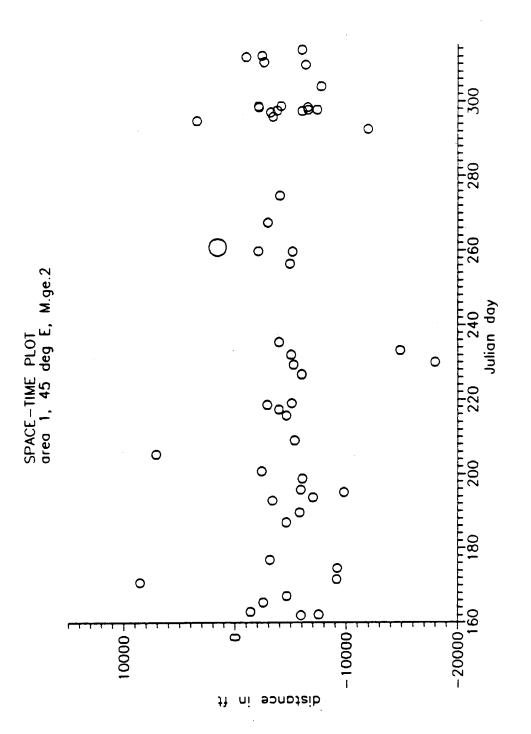


FIGURE 18c

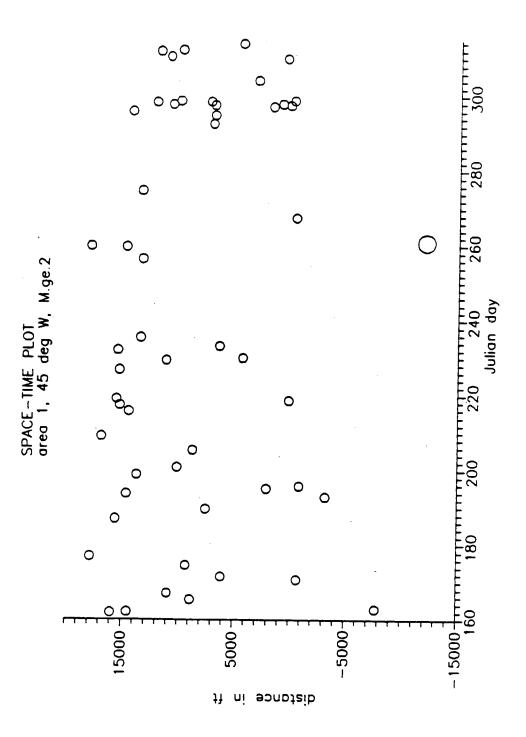
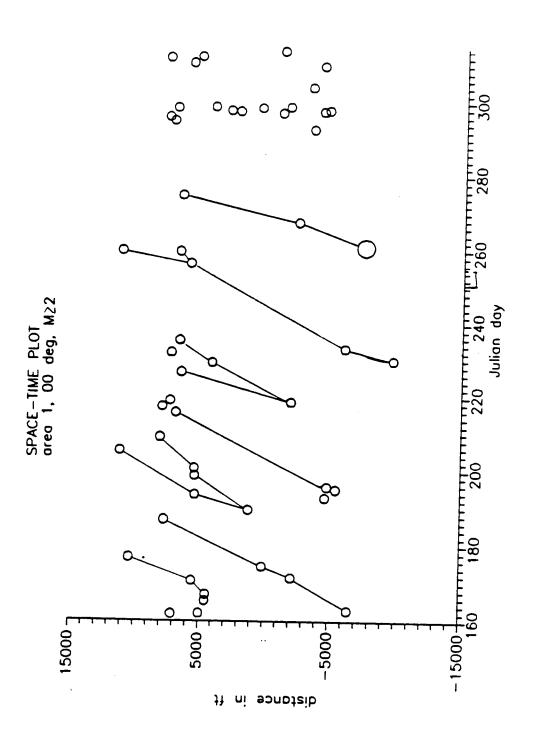


FIGURE 18d





CONCLUSIONS

Some interesting results have emerged from this project. The South Geysers area is relatively new to production, and there are differences in geology and reservoir characteristics between this area and the main Geysers. Seismicity in the two areas is different as a result. The rate here is lower, probably because of the shorter production duration. The earthquakes as a whole are deeper than the older area, which probably is not due to the velocity model, since the velocities are most likely on the low side. In the absence of well depth information, a comparison of production depths between the two areas cannot be made.

The greywacke reservoir rock is thinner in the South Geysers area than in the older parts of the field because the shallowest expression of the intrusive felsite unit underlies the study area and forms a lower boundary to the reservoir here. It is curious that the seismicity seems to be almost exclusively located within the felsite, whereas most extraction of steam is from the greywacke above.

With further study along several lines, important clues about the inducing mechanism may be found with this data set. A detailed look at the migration along the many fractures evident in the earthquake distribution may be traced to propagations of strain or pore pressure gradients which are related to steam extraction or water injection. It may even be possible to correlate these with known steam entries in wells. The temporal correlation between number of earthquakes and production parameters that change with time should be examined in detail, including possible reasons for periodicities. The reason that the earthquakes are more dense on one side of Sulphur Creek fault than the other might relate to differing fracture systems or facility of strain pulse propagation in the two areas. Other interesting features, such as the absence of events through the center of the array, and the depth extent and domeshaped upper bound of the seismicity, might also be explanable with a more detailed look at the earthquakes in this report.

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APPENDIX A EVENT LISTING WITH SOURCE PARAMETERS

SOUTH GEYSERS EARTHQUAKES: SOURCE PARAMETERS

	DATE	TIME	# P	LOG	RADIUS	STR DRP	DISPL
^-		1020	PICKS	MOMENT	(CM)	(BARS)	(CM)
87 87		1830	10 10	18.05	5608.8	2.9	0.400E-01
87		1836 2134	7	18.14 17.26	5745.8 5355.8	3.9 0.5	0.533E-01 0.122E-01
87		2140	ģ	18.86	9165.8	4.6	0.981E-01
87		2215	8	17.26	4407.5	1.2	0.211E-01
87		129	8	17.42	6538.0	0.3	0.592E-02
87		142	10	18.19	7657.0	3.3	0.472E-01
87		2 5	7	17.65	7756.4	0.5	0.757E-02
87		222	10	19.17	10644.9	6.5	0.678E-01
87	611	336	9	17.64	5656.1	1.0	0.113E-01
87	611	834	7	17.64	8476.6	0.4	0.810E-02
87		1354	8	18.10	8721.5	1.0	0.200E-01
87		1635	7	17.47	6134.0	0.9	0.147E-01
87		1857	7	17.59	6579.8	1.1	0.179E-01
87		2211	10	18.58	7450.3	5.5	0.923E-01
87		027	8	17.89	7700.7	0.9	0.152E-01
87 87		935 1011	7 6	17.79 17.21	7326.2 5613.6	0.7	0.123E-01
87		1011	7	17.70	10372.0	0.5 0.3	0.965E-02 0.609E-02
87		1522	5	17.99	8855.1	0.3	0.809E-02
87	612	1635	7	17.24	.5551.9	0.5	0.103E-01
87	612	1726	6	17.05	4274.3	0.6	0.964E-02
87		1749	6	16.89	4386.5	0.4	0.874E-02
87	612	1753	8	17.08	3912.3	0.9	0.154E-01
87	612	1834	7	17.21	3984.2	0.9	0.163E-01
87	612	1938	7	16.93	5255.2	0.4	0.875E-02
87		1940	7	17.00	4217.8	0.6	0.124E-01
87	612	2114	10	17.91	5197.6	2.4	0.470E-01
87 87	612 612	22 8 2312	5 8	16.94 17.12	4103.8 5520.0	0.5	0.943E-02
87	613	528	8	17.12	5491.4	0.4 1.2	0.789E-02 0.289E-01
87	613	747	10	18.44	13118.8	0.6	0.117E-01
87	613	826	10	18.02	6918.3	1.5	0.239E-01
87	613	1058	7	17.63	7930.2	0.4	0.760E-02
87	613	1312	6	17.01	4448.2	1.1	0.193E-01
87	613	1320	8	18.41	7499.8	3.5	0.299E-01
87	613	1511	9	16.98	5234.3	0.3	0.482E-02
87	613	1923	9	17.85	8924.9	0.4	0.817E-02
87 87	613	1946	10	18.18	8467.5	1.2	0.245E-01
87	613 613	2052 2054	7 6	17.47	7016.8	0.7	0.124E-01
	613	22 9	8	17.65 18.01	7272.8	0.6 1.1	0.117E-01 0.182E-01
	613	2317	و	17.78	7300.4 5296.2	2.3	0.182E-01 0.298E-01
87	614	026	7	17.53	5894.9	0.6	0.774E-02
87	614	029	9	18.05	6839.2	1.6	0.288E-01
87		119	8	17.84	7556.2	0.7	0.127E-01
87	614	217	9 5	18.24	6946.4	2.7	0.431E-01
87	614	314	5	18.29	10329.9	0.8	0.924E-02
87	614	4 6	5	17.68	6905.4	0.5	0.889E-02
87	614	439	7	17.34	4755.7	1.1	0.167E-01
	614	8 3	8	18.14	6727.7	4.7	0.517E-01
87 87	614 614	1042	6	17.49	5844.0	0.6	0.118E-01
87	614	1052	6	18.95	9838.2	4.0	0.884E-01
	614	1353 1740	6 0	18.01 18.01	9146.2 9146.2	0.4	0.899E-02
87	614	1835	7	17.73	7475.4	0.4 0.5	0.899E-02 0.942E-02
87	614	1958	6	16.75	4296.3	0.5	0.806E-02
87	614	2027	7	17.26	6534.2	0.5	0.851E-02
87	614	2053	ģ	17.89	5680.1	1.7	0.252E-01
87	615	3 2	وَ	18.11	7912.5	2.2	0.361E-01
87	615	1656	6	17.49	8704.2	0.2	0.758E-02
87	615	2321	7	17.12	4571.2	0.3	0.647E-02

88888888888888888888888888888888888888	2331 8 9 1734 1912 2332 7 7 3 4 6 10 7 5 10 10 10 10 10 10 10 10 10 10 10 10 10	998788798698789788958599567579798888666998958888677697799770900	18.39 18.65 17.93 17.71 18.13 17.43 18.14 17.53 17.55 17.55 17.55 17.63 17.63 17.63 17.72 17.55 17.63 17.72 17.73 18.20 17.75 17.63 17.72 17.73 18.20 17.75 18.20 17.55 18.20 17.57 18.20 17.58 17.59 17.63 18.30 17.56 17.57 18.20 17.56 18.20 17.56 18.30 17.56 18.30 17.56 17.56 18.30 17.56 17.56 18.30 17.56 17.56 17.56 17.56 17.66 17.57 17.56 17.56 17.56 17.56 17.56 17.57 17.56 17.57 17.57 17.56 17.57 17.56 17.57 17.56 17.57 17.56 17.57 17	7188.3 11896.9 6984.7 6741.8 10319.7 4839.5 9933.2 14599.7 6353.4 13342.8 6448.3 6529.9 6262.0 5571.1 5817.9 10188.0 5320.2 3712.4 6086.9 3602.8 3680.8 6534.5 29637.2 9497.2 7264.7 7264.7 10621.1 16211.5 17458.1 10621.2 13616.9 7724.2 13616.9 1	33815891341804946372646027814254442623137401594232361412546805	0.456E-01 0.366E-01 0.175E-01 0.172E-01 0.146E-01 0.189E-01 0.323E-01 0.819E-02 0.644E-02 0.163E-01 0.233E-01 0.665E-02 0.140E-01 0.622E-01 0.162E-01 0.339E-01 0.470E-01 0.162E-01 0.163E-02 0.164E-01 0.174E-02 0.184E-01 0.174E-02 0.184E-01 0.174E-02 0.184E-01 0.174E-02 0.184E-01 0.174E-02 0.184E-01 0.191E-02 0.184E-01 0.191E-02 0.161E-02
87 624 87 624	20 1 2018 2213	10 9	17.57 17.61	6176.7 6435.8	0.6 0.8	0.956E-02 0.125E-01

87		1047	9	18.23	7988.7	1.7	0.326E-01
87 87		1053 1114	7 7	17.39 17.49	8081.9 7004.8	0.2 0.3	0.350E-02 0.585E-02
87		1230	9	17.65	9637.0	0.2	0.518E-02
87		1248	8	17.52	6645.4	0.4	0.760E-02
87		15 6	9	17.45	6300.7	0.5	0.737E-02
87 87		1543 1713	5 9	17.37 17.99	5736.1 7221.7	0.5 1.1	0.671E-02 0.194E-01
87		1733	6	16.78	5891.4	0.1	0.318E-02
87		2218	6	17.12	5042.5	0.6	0.103E-01
87 87		2233 2243	10 8	18.63 17.81	13759.5	2.0	0.460E-01
87		114	9	18.09	7115.8 7049.9	0.6 1.6	0.111E-01 0.259E-01
87	626	410	7	17.70	6793.3	1.0	0.145E-01
87		1044	9	18.33	20462.4	0.1	0.529E-02
87 87		1321 1448	9 7	17.79 17.21	11483.3 4607.2	0.2 0.9	0.561E-02 0.147E-01
87		1737	10	18.38	7408.9	3.0	0.530E-01
87	626	19 5	7	17.05	5418.3	0.5	0.980E-02
87		1924	9	17.18	4943.5	0.7	0.105E-01
87 87		1944 014	5 9	16.53 17.57	4622.1 8071.3	0.2 0.3	0.338E-02 0.620E-02
87		040	9	17.75	5977.6	1.6	0.206E-01
87	627	519	8	18.19	11879.1	0.8	0.210E-01
87		537	8	18.02	8239.8	0.8	0.169E-01
87 87		1735 20 7	9 8	17.59 17.71	6758.4 12407.8	0.7 0.1	0.968E-02 0.358E-02
87		2058	8	17.44	5723.6	1.0	0.150E-01
87		22 4	6	17.69	11640.7	0.4	0.438E-02
87 87		035	7	17.09	5780.4	0.6	0.795E-02
87		222 837	9 7	17.75 17.74	6339.9 6653.4	0.7 0.7	0.113E-01 0.137E-01
87		845	8	18.08	8176.7	1.0	0.129E-01
87	_	931	6	17.69	7353.3	0.7	0.794E-02
87 87	628 628	1051 1123	5 6	17.21 17.30	6166.5 6054.8	0.3	0.387E-02 0.930E-02
87	628	1728	6	17.15	6430.7	0.4	0.655E-02
87		1744	7	17.16	5963.7	0.3	0.502E-02
87 87	628 628	1954 2029	8 9	17.41	6628.8	0.4	0.677E-02
87	628	2142	9	17.06 17.47	6254.6 6208.3	0.5 0.6	0.711E-02 0.101E-01
87	628	2325	6	17.63	6900.2	0.8	0.943E-02
87	629	140	6	17.53	6925.4	0.6	0.870E-02
87 87	629 629	238 315	9	17.58	5753.5	1.2 0.8	0.162E-01
87	629	348	7 8	17.42 17.64	5681.9 7420.5	0.8	0.112E-01 0.878E-02
87	629	2250	9	16.93	8498.1	0.2	0.267E-02
87	630	212	7	17.34	7799.3	0.3	0.283E-02
87 87	630 630	15 7 1827	9	17.31 18.01	6503.2 7633.8	0.3	0.465E-02
87	7 1	614	9 6	17.36	6679.2	1.1	0.246E-01 0.459E-02
87	7 1	19 7	9	17.92	6076.8	2.2	0.226E-01
87	7 1	2154	8	17.88	18942.7	0.0	0.220E-02
87 87	7 1 7 2	2241 254	8 9	18.02 17.93	7891.9	1.1	0.180E-01
87	7 2	420	9	18.31	6904.6 9835.3	1.0 0.9	0.179E-01 0.214E-01
87	7 2	520	ğ	17.81	7651.4	0.7	0.126E-01
87	7 2	2140	9 5	16.32	5981.1	0.1	0.189E-02
87	7 3	19 4	8	17.53	5178.0	1.4	0.203E-01
87 87	7 3· 7 4	2156 019	7 9	17.72 18.08	8528.9 6308.2	0.3 1.9	0.721E-02 0.317E-01
87	7 4	035	9	17.99	8362.2	1.9	0.317E-01 0.211E-01
87	7 4	1636	8	17.31	5207.6	0.7	0.113E-01
87 87	7 4 7 4	1840	9	17.49	8296.4	0.6	0.125E-01
87	7 4 7 4	2238 2354	6 9	18.02 18.11	8645.9 6896.2	0.7 3.5	0.919E-02 0.468E-01
	-		•	-0.11	0070.2	٠. ت	J. 400E-01

87 7 5	324	- 6	16.34	3696.6	0.2	0.622E-02
		8	17.16	5393.9	0.4	0.708E-02
87 7 5	341	6	16.85	5145.8	0.3	0.478E-02
87 7 5		8	17.32			
				5327.0	0.6	0.863E-02
87 7 5	1253	8	17.43	5649.4	0.8	0.127E-01
87 7 5	1512	8	17.86	12133.0	0.3	
07 7	1912					0.874E-02
87 7 5		8	17.41	5774.2	0.9	0.129E-01
87 7 6	023	6	16.80	8154.0	0.2	
						0.294E-02
87 7 6		8	19.25	16089.9	1.9	0.412E-01
87 7 6	339	6	18.08	15847.4	0.3	0.844E-02
				13047.4		
87 7 6		8	18.07	7094.4	1.8	0.200E-01
87 7 6	1232	5	18.04	9107.3	0.9	0.121E-01
87 7 6						
		7	17.62	7573.1	0.5	0.924E-02
87 7 7	045	8	17.44	8275.4	0.2	0.432E-02
87 7 7	327					
		8	17.77	7748.2	0.6	0.101E-01
87 7 7	542	9	18.00	9197.5	0.8	0.151E-01
87 7 7	638	9	17.53			
				7420.3	0.4	0.742E-02
87 7 7	656	6	17.42	6402.1	0.3	0.587E-02
87 7 7	846	9	17.66	7834.4	0.2	
						0.501E-02
87 7 7		8	17.03	4726.1	0.6	0.905E-02
87 7 7	1329	8	17.09	5105.6	0.5	0.813E-02
		5	17.35	4966.3	0.9	0.118E-01
87 7 7	1628	10	17.74	6598.1	0.7	0.120E-01
87 7 7						
		8	17.94	8051.6	1.2	0.195E-01
87 7 8	4 7	9	17.28	5807.9	0.5	0.878E-02
87 7 8	651	9	17.21			
				4719.6	0.6	0.101E-01
87 7 8	1110	9	18.28	9250.7	1.8	0.342E-01
87 7 8	1126	9	18.39	12485.4	1.0	
						0.237E-01
87 7 8		9	17.34	7506.4	0.4	0.765E-02
87 7 8	1657	10	18.54	9489.5	2.3	0.271E-01
						0.2/1E-01
87 7 8		5	15.99	3444.1	0.2	0.611E-02
87 7 8	2025	6	17.48	9198.2	0.1	0.362E-02
87 7 9		ğ				
		7	16.83	6109.0	0.3	0.521E-02
87 7 9	738	7	17.16	6124.5	0.4	0.532E-02
87 7 9	86	8	17.32	10846.6		
			17.32		0.2	0.402E-02
87 7 9		6	16.95	5173.5	0.3	0.522E-02
87 7 9	1525	10	17.78	7926.8	0.6	
				7320.0		0.114E-01
	1545	10	18.40	10793.9	1.1	0.255E-01
87 7 9	1620	10	18.45	11322.3	1.7	0.361E-01
87 710	056	8	17.04	6178.3		
					0.3	0.478E-02
87 710	056	9	17.41	5882.8	0.6	0.108E-01
87 710	058	5	16.49	4771.2	0.1	0.274E-02
87 710						
	128	9	17.32	5563.4	0.6	0.106E-01
87 710	742	8	17.12	6072.2	0.3	0.501E-02
87 710	1018	7	17.57	0153.0		
				8153.8	0.3	0.509E-02
87 710	1316	9	17.45	7359.6	0.4	0.696E-02
87 710	1539	10	17.67	6064.9		
			17.07		1.2	0.166E-01
	1659	8	17.12	5323.3	0.4	0.768E-02
87 711	1914	9	17.23	6898.5	0.3	0.425E-02
87 711	2150					
		10	18.62	9626.3	1.8	0.197E-01
87 712	7 7	7	17.43	5519.0	0.8	0.104E-01
87 712	11 4	6	17.59			
				8234.5	0.5	0.771E-02
87 712	1515	10	18.37	11881.9	1.5	0.213E-01
87 712	1717	10	17.74	8527.7	0.5	0.126E-01
			10.73			
87 712	1717	6	19.58	20884.6	2.0	0.155E-01
87 712	22 9	7	18.02	8530.3	1.1	0.101E-01
87 713	1630	9				
			17.56	5867.7	1.2	0.152E-01
87 713	1930	8	17.77	9689.7	0.3	0.607E-02
87. 713	1945	5	15.82			
				1862.5	0.5	0.304E-01
87 714	252	9	18.56	9567.8	1.9	0.184E-01
87 714	1932	10	18.88	11628.5	1.9	
						0.215E-01
	1937	6	17.85	10617.4	0.6	0.103E-01
87 714	2354	9	17.77	6135.0	1.1	0.163E-01
87 715						
	343	7	17.50	5538.2	0.8	0.112E-01
87 715	454	9	18.13	7936.3	1.6	0.262E-01
87 715	734	5	16.91			
		J	70.27	8510.0	0.1	0.231E-02

877155555555777717777777777777777777777	1427 151614 1913 20137 21364 1128 2235 1614 2235 1643 2235 1643 22124 22	50057607508787998797779888767648656895787769790009068097988690	17.86 17.86 17.51 16.99 17.51 17.99 17.99 17.99 17.99 17.69	6188.6 86324.2 86324.2 86324.2 86324.2 86324.2 86324.2 86324.2 86324.2 86324.2 85195.1 85192.9 10455.8 81095.2 124071.6 8871.2 8871.2 8871.2 124071.8 8871.2 8871.2 8871.3 12407.3 8895.8 8482.8 8898.9 8 8 8 8	0311228432435930002693435235861273978303344072323591475482361 2110000001111110012100000000000000000	0.137E-01 0.187E-01 0.205E-01 0.387E-02 0.412E-02 0.412E-02 0.597E-02 0.511E-01 0.532E-02 0.863E-02 0.112E-01 0.157E-01 0.172E-01 0.172E-01 0.172E-01 0.172E-01 0.172E-01 0.172E-01 0.172E-01 0.172E-01 0.172E-01 0.172E-01 0.172E-01 0.10E-01 0.127E-01 0.127E-01 0.127E-01 0.127E-01 0.127E-01 0.127E-01 0.346E-02 0.478E-02 0.777E-02 0.113E-01 0.728E-02 0.614E-02 0.614E-02 0.639E-02 0.163E-01
87 721	2348	8	17.42	7417.9	0.3	0.590E-02
87 722	0 3	6	17.58	6508.2	1.6	0.147E-01

87 87 87 87	722 722 722 722 722	938 11 3 1239 1310 1830	8 6 8 8	17.52 17.00 17.84 17.22 16.82	7440.7 7535.5 7296.7 6432.5 4312.6	0.3 0.1 0.7 0.4 0.3	0.552E-02 0.190E-02 0.113E-01 0.620E-02 0.617E-02
87 87 87 87	723 723	19 5 1941 20 3 034 343	10 9 9 5 7	18.11 17.74 18.05 17.23 16.91	6859.1 6239.6 11721.8 5669.2 5914.0	1.9 1.0 0.6 0.5	0.227E-01 0.144E-01 0.132E-01 0.619E-02 0.262E-02
87 87 87 87 87	723 723 723 723 723 723	6 4 6 6 648 7 0 817 834	8 6 8 9 7 7	17.11 16.98 17.51 17.98 17.15	8762.7 5074.2 7351.2 7446.3 6186.1 5468.8	0.1 0.3 0.4 1.0 0.3	0.191E-02 0.631E-02 0.770E-02 0.185E-01 0.491E-02 0.681E-02
87 87 87 87	723 723 723 723 723 723	933 1042 1354 1724 18 5	9 7 10 5 8	17.85 17.50 18.14 16.83 17.71	6623.6 8333.9 9674.0 4736.3 8204.3	1.4 0.2 0.9 0.3	0.224E-01 0.433E-02 0.199E-01 0.546E-02 0.893E-02
87 87 87 87	723 723 723 723 723	1847 2011 2031 2135 2148	10 9 7 6	17.90 18.12 17.78 16.75 17.71	7616.1 13198.9 9796.5 3817.7 7104.6	0.7 0.3 0.3 0.5	0.130E-01 0.681E-02 0.592E-02 0.763E-02 0.108E-01
87 87 87 87	723 723 723 724 724	2253 2335 2344 1 0 144	6 10 9 5 5	17.36 17.82 18.02 16.50 16.26	6652.2 6256.6 13937.2 6316.5 5041.6	0.3 1.5 0.2 0.1	0.579E-02 0.216E-01 0.534E-02 0.150E-02 0.142E-02
87 87 87 87	724 724 724 724 724	258 456 457 858 925	10 9 8 6 5	17.80 18.09 17.96 17.65 18.54	7572.4 9788.5 8373.7 7456.6 11621.2	0.8 0.5 0.5 0.4	0.143E-01 0.131E-01 0.114E-01 0.625E-02 0.776E-02
87 87 87 87 87	724 724 724 724 724 724	946 1243 15 5 1739 1825 2254	5 9 10 9 8	17.83 17.93 18.14 18.08 17.50	13984.9 11851.4 20425.7 9143.1 9498.9	0.2 0.3 0.1 0.7 0.4	0.480E-02 0.827E-02 0.655E-02 0.195E-01 0.595E-02
87 87	724 724 725 725 725 725	2254 23 8 2342 120 146 225	9 7 8 9 7	17.48 16.78 17.41 18.05 17.22	5070.3 4504.7 9537.2 6880.3 7799.8	0.9 0.2 0.4 1.3 0.2	0.155E-01 0.437E-02 0.627E-02 0.234E-01 0.303E-02
87 87 87	725 725 725 725 725 725	240 247 835 1122 1311	10 9 6 7 10 8	17.44 17.97 17.35 17.25 17.94	9140.5 8930.4 6046.3 5294.4 11593.0	0.7 0.9 0.9 0.4 1.1	0.158E-01 0.167E-01 0.103E-01 0.621E-02 0.191E-01
87 87 87 87 87	725 725 725 725 725 725	1338 14 1 1425 15 4 1611	7 6 7 9	17.73 17.24 17.58 17.22 18.08	6823.8 13755.8 6758.3 5334.2 10516.9	1.0 0.1 0.6 0.5	0.105E-01 0.278E-02 0.815E-02 0.685E-02 0.137E-01
87 87 87 87 87	725 725 725 725 725 725	1738 1814 2030 2135 22 6	10 8 10 7	17.55 17.67 16.68 18.39 17.69	11864.0 5909.7 5709.5 9290.0 7659.5	0.5 0.9 0.2 1.5 0.5	0.572E-02 0.158E-01 0.216E-02 0.341E-01 0.919E-02
	726 726 726 726 726	245 528 550 1530	8. 10 7 5 6	17.08 18.44 17.31 16.56 17.17	5329.1 12532.3 6311.0 4344.8 7554.2	0.6 1.0 0.4 0.2 0.2	0.604E-02 0.238E-01 0.769E-02 0.307E-02 0.344E-02

88888888888888888888888888888888888888	15 42 5 6 5 2 2 2 2 3 5 7 1 1 4 4 8 1 2 5 7 3 1 4 4 1 2 2 3 0 1 2 2 1 4 5 3 2 4 4 5 1 2 2 3 5 7 1 4 4 1 2 2 3 0 1 2 2 1 4 5 3 2 4 4 5 1 2 3 1 2 2 1 4 5 3 2 4 4 5 1 2 3 1 5 3 5 5 1 6 6 1 2 1 2 1 5 3 5 1 7 3 5 5 1 6 6 1 2 1 2 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	10075765068586086698769805869799598887905659678779567578099997977	18.619 17.49 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 18.00	1279.8 13544.8 7872.5 8365.7 6471.8 12054.6 7943.8 12054.6 10049.3 76361.5 10049.3 76361.5 10468.9 55541.5 10468.9 5553.4 10468.3 7543.6 10468.3 7543.6 10468.3 7707.5 10468.3 7707.5 10468.3 10559.9 10559.9 10559.9 10660.6 1069.1 1069	\$\\ \cdot \c	0.115E-01 0.379E-02 0.406E-02 0.686E-03 0.608E-02 0.486E-02 0.151E-01 0.284E-02 0.956E-02 0.691E-02 0.691E-02 0.671E-02 0.5726E-01 0.574E-02 0.576E-01 0.571E-02 0.576E-01 0.571E-02 0.486E-02 0.412E-02 0.426E-02 0.426E-02 0.426E-01 0.446E-02 0.138E-01 0.128E-01 0.145E-01 0.145E-01 0.146E-02 0.167E-02 0.167E-02 0.166F-02 0.167E-02 0.166F-02 0.166F-02 0.166F-02 0.166F-02 0.166F-02 0.166F-02 0.166F-02 0.166F-02 0.166F-02 0.166F-02 0.166F-02 0.166F-02 0.166F-02 0.169E-02
87 731	2229	7	17.19	6096.5	0.4	0.687E-02

888888888888888888888888888888888888888	0447 35567 8296 112449 112119130 1121119130 11211119130 11211119130 11211119130 11211119130 11211119130 11211119130 11211119130 1121119130 1121119130 1121119130 1121119130 1121119130 1121119130 1121119130 1121119130 1121119130 1121119130 1121119130 1121119130 11211910 112119130 112119130 112119130 112119130 112119130 112119130 112119130 112119130 112119130 11211910 11211910 11211910 11211910 1	798979779865088860888798679798797568799800676077570065865600890500	16.43 17.54 17.48 17.48 17.7.7 17.7.5 17.5 1	6221.2 6860.2 5939.2 7857.4 7157.9 7908.2 6992.0 9687.0 61925.9 61925.9 61925.9 6190.7 7385.3 6241.9 4711.8 5100.1 7308.6 6241.9 4711.8 5100.1 7398.4 5103.9 6570.2 6483.1 6103.9 6570.2 6483.1 6570.2 6483.1 6570.2 657	16553623722545211344409823769289322755211049401354739627311305733700000000000000000000000000000	0.161E-02 0.922E-02 0.794E-02 0.941E-02 0.481E-02 0.129E-01 0.431E-02 0.109E-01 0.377E-02 0.612E-02 0.612E-02 0.6252E-01 0.685E-02 0.142E-02 0.165E-02 0.165E-02 0.165E-02 0.1792E-02 0.103E-02 0.103E-01 0.141E-01 0.479E-02 0.125E-01 0.145E-01 0.479E-02 0.188E-01 0.186E-01 0.186E-01 0.186E-01 0.186E-01 0.186E-01 0.186E-01 0.186E-01 0.186E-01 0.186E-01 0.186E-01 0.186E-01 0.186E-01 0.186E-01 0.186E-01 0.186E-01 0.236E-01 0.236E-01 0.186E-01 0.236E-01 0.236E-01 0.236E-01 0.236E-01 0.236E-01 0.236E-01 0.236E-01 0.236E-01 0.236E-01 0.376E-02 0.481E-02 0.481E-02 0.186E-01 0.376E-01
		055567 829121561712121310222312223122231222312223122231	057 355 556 9777 834 929 71156 7217 1217 91245 1649 1712 1733 10 1950 2136 8 2215 8 2310 2312 2340 8815 819 911 915 8815 8819 7911 9915 8815 8819 7911 9915 1032 1141 1147 1147 1257 1321 1342 1414 1417 1422 1414 1417 1422 1414 1417 1422 1414 1417 1422 1414 1417 1422 1414 1417 1422 1414 1417 1422 1427 2213 647 1846 9 9 9 3 8 1919 2053 10 10 10 10 10 10 10 10 10 10	057 9 17.56 355 8 17.48 556 9 17.83 7 7 7 17.37 17.37 834 9 17.93 929 7 17.25 1156 7 17.76 1217 9 17.52 1245 8 17.18 1649 6 17.01 1712 5 18.14 1733 10 18.03 1950 8 17.47 2136 8 17.12 2215 8 17.65 2310 6 17.45 2312 10 17.39 2340 8 17.56 429 8 17.05 815 8 16.94 819 7 17.21 911 9 17.78 1257 7 16.98 1321 9 18.09 1447 17.15 17.38 1427 5 17	057 9 17.56 6860.2 355 8 17.48 5939.2 556 9 17.83 7857.4 7 7 7 17.37 7157.9 834 9 17.93 7908.2 929 7 17.25 6992.0 1156 7 17.76 9687.6 1217 9 17.52 5925.0 1245 8 17.18 6555.9 1649 6 17.01 6190.6 1712 5 18.14 10212.4 1733 10 18.03 6759.8 1950 8 17.47 6813.1 2136 8 17.47 6813.1 2136 8 17.12 5831.0 2215 8 17.65 66551.2 2310 6 17.45 13190.1 2312 10 17.39 8019.7 2340 8 17.56 7385.3 429 8 17.05 4988.5 815 8 16.94 4951.0 819 7 17.21 15261.1 911 9 17.78 7308.6 915 8 17.47 6058.3 1032 6 17.98 6775.8 1141 7 17.15 6241.9 1147 9 17.25 4711.8 1257 7 16.98 5100.7 1321 9 18.09 8875.1 1342 8 17.23 7760.8 1414 7 17.15 6241.9 11342 8 17.25 4711.8 1422 7 17.38 7905.4 1427 5 16.98 5100.7 13342 8 17.56 6397.1 2213 6 16.32 3953.1 647 8 17.56 6103.9 140 7 17.33 6570.6 8 140 7 17.33 6570.6 8 17.98 6775.8 1414 7 9 17.87 6329.8 1414 7 9 17.87 6329.8 1414 7 17.15 6241.9 17.87 6329.8 1414 7 17.55 6329.8 1415 9 17.87 7905.4 1427 5 17.06 63397.1 1251 12527 4 17.06 63397.1 1251 12527 4 17.53 12527 4 17.53 12527 4 17.53 12527 4 17.55 12527 4 1	057 9 17.56 6860.2 0.6 355 8 17.48 5939.2 0.5 556 9 17.83 7857.4 0.5 7 7 7 17.37 7157.9 0.3 834 9 17.93 7908.2 0.6 929 7 17.25 6992.0 0.2 1156 7 17.76 9687.6 0.3 1217 9 17.52 5925.0 0.7 1245 8 17.18 6555.9 0.2 1445 6 17.01 6190.6 0.2 1712 5 18.14 10212.4 0.5 1733 10 18.03 6759.8 1.4 1950 8 17.47 6813.1 0.5 2215 8 17.65 6651.2 1.1 2310 6 17.45 13190.1 0.1 2312 10 17.39 8019.7 0.3 2340 8 17.56 7385.3 0.4 429 8 17.05 4988.5 0.4 815 8 16.94 4951.0 0.4 229 8 17.05 4988.5 0.4 815 8 16.94 4951.0 0.4 819 7 17.21 15261.1 0.0 911 9 17.78 7308.6 0.9 915 8 17.47 6058.3 0.8 1032 6 17.98 6775.8 1.2 1141 7 17.15 6241.9 0.3 11447 9 17.25 4711.8 0.7 1257 7 16.98 5100.7 0.6 1321 9 18.09 8875.1 1.9 1144 7 17.75 6329.8 0.8 1417 9 17.75 6329.8 0.8 1414 7 17.75 6329.8 0.8 1417 9 17.87 8804.3 0.9 1422 7 17.38 7905.4 0.3 1427 5 17.06 6397.1 0.2 2213 6 667 8 5100.7 0.6 1321 9 18.09 18.75 1.9 1440 7 17.33 6570.6 0.5 1446 9 18.09 6397.1 0.2 2213 6 665.3 2.2 141 7 17.15 6241.9 0.3 1427 5 17.06 6397.1 0.2 2213 6 666.5 0.3 1427 5 17.06 6397.1 0.2 2213 6 666.5 0.3 1427 5 17.06 6397.1 0.2 2213 6 666.5 0.3 1427 5 17.06 6397.1 0.2 2213 6 666.5 0.3 1427 5 17.06 6397.1 0.2 2213 6 16.32 3953.1 0.2 446 6 17.15 6048.9 0.4 147 9 17.55 5592.1 1.0 446 9 18.05 6483.6 2.2 9 3 8 18.33 10107.1 1.1 15 7 17.18 5666.5 0.3 1214 5 17.18 5555.8 0.5 1351 7 16.99 5099.7 0.4 1942 10 17.95 7908.2 0.7 1258 10 18.57 16.99 5099.7 0.4 1942 10 17.95 7908.2 0.7 1258 10 18.57 16.99 5099.7 0.4 1942 10 17.95 7908.2 0.7 1528 10 18.59 12494.0 1.3 1649 18.07 9077.4 0.7 1755 16.53 4262.5 0.3 1819 9 17.80 8179.6 0.5 1819 10 18.07 9077.4 0.7 1528 10 18.59 12494.0 1.3 1811 9 17.80 8179.6 0.5

87 87 87 87 87 87 87 87 87 87 87 87 87 8	88888888888888888888888888888888888888	244533419634772106100893744688796810799901715398527164617703 242669419772106100893744688796810799901715398527164617703 24334772106100893744688796810799901715398527164617703	66999978095688698589989699680977090888000089689699988506699996860	16.867.1316.867.1317.77.77.77.77.77.77.77.77.77.77.77.77.7	8609.52 14587.52 9805.6.30 62305.97 80569.63 80569.	15968130544513353490482124243283682565229812240441636543416017	0.236E-02 0.131E-01 0.138E-01 0.138E-02 0.619E-02 0.165E-02 0.165E-02 0.520E-02 0.105E-02 0.345E-02 0.345E-02 0.456E-02 0.456E-02 0.10E-01 0.456E-02 0.10E-01 0.217E-01 0.678E-02 0.152E-01 0.219E-01 0.219E-01 0.356E-02 0.229E-01 0.356E-02 0.231E-01 0.356E-02 0.231E-01 0.382E-01 0.382E-01 0.382E-01 0.382E-01 0.382E-01 0.382E-01 0.382E-01 0.382E-01 0.382E-01 0.382E-01 0.382E-01 0.382E-01 0.382E-01 0.407E-02
87 87 87 87 87 87	813 813	7 7 10 7	9 6 8	17.56 17.53 17.72	12384.0 6985.8 6668.9	0.1 0.6 1.0	0.225E-02 0.961E-02 0.154E-01

87	014	A11	•	17 07	40.51		
		011	8	17.07	4961.6	0.6	0.965E-02
87	814	025	9	18.13	7585.0	2.0	0.334E-01
87		042	6				0.3342-01
				17.16	5857.1	0.3	0.477E-02
87	814	153	9	18.34	8560.2	1.5	0.185E-01
87		254	Ē	17.28			
			5		6757.3	0.4	0.582E-02
87	814	528	9	17.85	6604.5	1.3	0.170E-01
87		1229	2				
			9	18.27	14063.7	0.5	0.140E-01
87	814	19 9	9	18.67	13953.7	1.5	0.353E-01
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87		035	9	18.38	8255.3	3.2	0.527E-01
87	815	128	10	18.13	11954.9	1.0	0.179E-01
87							
		129	6	17.18	7251.9	0.2	0.247E-02
87	815	233	8	17.77	7728.5	0.5	0.953E-02
87							
		248	9	17.90	12853.1	0.3	0.782E-02
87	815	12 3	5	17.39	7096.2	0.4	0.566E-02
87		1452					
			10	18.14	7053.7	1.5	0.237E-01
87	815	1534	9	17.99	10127.1	0.4	0.109E-01
87		19 8			6005		
			6	17.31	6225.6	0.3	0.660E-02
87	816	029	7	17.18	4896.6	0.6	0.787E-02
87		4 2	8	17.30			
					9334.3	0.1	0.257E-02
87	816	457	6	16.48	3332.7	0.3	0.508E-02
87	816	13 0	8	17.61	9812.8	0.2	
							0.420E-02
87	817	04	7	17.05	4887.6	0.5	0.731E-02
87	817	120	5	17.33			
					6509.4	0.5	0.719E-02
87	817	616	7	17.42	7798.1	0.3	0.556E-02
87	817	819	5	17.27	6597.1	0.2	0.383E-02
			=				
87		941	7	17.34	5815.2	0.9	0.129E-01
87	817	946	9	18.54	10753.0	1.2	0.302E-01
87	817	1338	9	17.98	8717.9	1.4	0.289E-01
87	817	1358	9	18.09	12634.3	0.3	0.948E-02
87	817	1523	6	16.97	4893.4	0.4	0.591E-02
87	817	2219	6	17.89	8091.7	0.6	0.128E-01
87	818	04	9	19.15	16733.2	1.9	0.176E-01
87	818	344	7	18.17	9477.3	1.0	0.176E-01
87	818	1825	9	18.02	7639.7	1.3	0.267E-01
87	818	2332	7	17.48	6166.4	0.7	0.947E-02
87	819	623	8				
				17.03	5688.9	0.2	0.461E-02
87	819	2055	9	16.88	3320.6	0.8	0.237E-01
87	820	213	8	18.66	12340 6		
			•		12348.6	1.3	0.335E-01
87	820	222	6	17.26	5136.5	0.7	0.758E-02
87	820	233	6	17.37	7200.1		0 5335 00
			0			0.4	0.531E-02
87	820	624	5	16.92	4346.6	0.5	0.771E-02
87	820	2018	8	17.09			
			9		6702.8	0.2	0.543E-02
87	820	2250	6	16.57	3557.5	0.4	0.657E-02
87	821	38	7	16.95	6144.4	0.2	
0.7					0144.4		0.818E-02
	821	450	7	17.44	10336.2	0.1	0.296E-02
87	821	458	8	18.20	16573.6	0.2	0.918E-02
				10.20			
	821	459	9	19.51	32163.9	1.0	0.228E-01
87	821	54	6	17.34	6440.8	0.3	0.541E-02
			ž				
87	821	1151	5	17.13	4843.0	0.6	0.604E-02
87	821	1249	7	16.85	5295.9	0.3	0.325E-02
87							
	821	1937	5	17.77	8251.9	0.4	0.123E-01
87	822	935	7	17.49	11163.0	0.8	0.116E-01
87	822		Ė				
		1246	5	17.11	14253.0	0.3	0.407E-02
87	822	1432	7	17.67	7816.8	0.4	0.646E-02
87	822		7				
		1644		16.94	6766.0	0.1	0.211E-02
87	822	17 3	7	17.38	7403.2	0.4	0.588E-02
87	822						
		18 2	8	18.06	8888.7	1.2	0.178E-01
87	822	2057	5	16.28	3180.5	0.3	0.749E-02
87	822						
		22 5	8	17.35	6916.8	0.3	0.448E-02
87	822	2313	9	17.62	7394.4	0.5	0.837E-02
87	823		Ž				
		1046	6	17.44	7976.9	0.2	0.433E-02
87	823	1128	8	18.53	17719.2	0.3	0.130E-01
87	823					0.5	
		1351	8	17.74	7344.7	0.3	0.721E-02
87	823	1355	8	17.02	5747.7		0.552E-02
87	823						
		1356	8	17.39	7089.6	0.3	0.503E-02
87	823	1445	8	17.56	7755.2	0.9	0.142E-01
			-			U . J	0.1925-01

87 823	1526	5	17.39	12880.6	0.1	0.216E-02
87 823	1733	8	17.41	6652.4	0.3	0.483E-02
87 823 87 823	1750 2220	8 7	17.62 17.49	5466.0 6293.3	1.3 0.3	0.201E-01 0.628E-02
87 823	2258	ģ	18.14	7730.7	1.7	0.828E-02 0.275E-01
87 824	724	7	17.46	6888.4	0.5	0.102E-01
87 824 87 824	1615 2017	8 7	17.91 16.98	7154.0 5556.2	1.7 0.4	0.272E-01 0.617E-02
87 825	032	8	17.61	7219.1	0.8	0.118E-01
87 825	044	8	17.55	6143.8	0.6	0.123E-01
87 825 87 825	322 420	7 5	17.48 16.74	6396.1 5585.3	0.5 0.2	0.875E-02 0.249E-02
87 825	449	6	16.97	13225.1	0.2	0.273E-02
87 825 87 825	651 653	7 8	17.37 17.53	6851.5 5778.7	1.2 0.7	0.234E-01 0.111E-01
87 825	831	6	16.83	6830.7	0.2	0.229E-02
87 825	942	7	17.65	5558.1	1.1	0.152E-01
87 825 87 825	1050 2333	4 6	17.34 17.54	6809.2 7008.7	0.4 0.4	0.993E-02 0.770E-02
87 826	1 7	7	17.33	7690.7	0.3	0.656E-02
87 826 87 826	758 1221	8 7	18.01 17.54	13595.5 8543.5	0.3	0.849E-02
87 826	1855	7	17.21	5453.0	0.3 0.5	0.661E-02 0.935E-02
87 826	2051	6	17.13	6128.1	0.2	0.589E-02
87 826 87 826	2124 2217	6 7	17.05 17.60	6001.1 7240.1	0.4 0.5	0.601E-02 0.915E-02
87 827	149	6	17.41	6531.1	0.7	0.881E-02
87 827 87 827	3 6 615	6 6	17.27	10374.9	0.1	0.202E-02
87 827	1412	7	17.42 17.61	5802.0 7477.4	0.8	0.109E-01 0.925E-02
87 827	1554	8	17.99	18885.3	0.2	0.453E-02
87 827 87 827	1910 2130	7 8	17.76 17.61	11813.5 6328.7	0.2 0.8	0.394E-02 0.157E-01
87 827	22 2	8	16.95	4698.5	0.6	0.146E-01
87 828 87 828	016 155	6 7	17.40 17.41	5601.8 5832.4	0.5 1.5	0.734E-02 0.118E-01
87 828	1017	8	18.01	7962.3	1.5	0.234E-01
87 828 87 828	1034 14 2	5	16.78	5939.0	0.2	0.415E-02
87 828	16 2	8 8	18.28 17.89	7967.9 7099.6	1.8 1.1	0.314E-01 0.164E-01
87 828	1743	8	18.27	10432.8	0.8	0.200E-01
87 828 87 829	2027 318	5 7	16.84 17.59	6703.7 5925.9	0.2 1.1	0.474E-02 0.149E-01
87 829	4 8	8	18.02	6418.7	2.2	0.205E-01
87 829 87 829	426	9	18.36	13878.0	2.4	0.356E-01
87 829	632 12 0	7 8	17.59 17.76	5334.1 17698.2	1.6 0.1	0.235E-01 0.221E-02
87 829	1248	5	17.05	7646.9	0.1	0.253E-02
87 829 87 829	2219 2316	8 5	18.23 16.61	6729.7 6161.7	2.3 0.2	0.398E-01 0.318E-02
87 830	346	5 5	17.40	7502.6	0.3	0.502E-02
87 830 87 830	1010 1025	8 6	17.29 17.51	5548.1 5973.2	0.6	0.851E-02
87 830	1445	7	17.52	15895.7	0.8 0.1	0.110E-01 0.216E-02
87 830	1722	8	17.26	5671.3	0.6	0.984E-02
87 830 87 830	1724 1732	9 9	18.14 18.19	9338.5 8438.9	1.0 1.7	0.220E-01 0.332E-01
87 830	1734	8	17.38	8000.1	0.2	0.568E-02
87 830 87 830	18 2 1942	5	17.54	9684.7	0.2	0.349E-02
87 830	2255	9 6	17.91 17.39	6897.8 6660.9	1.3 0.4	0.319E-01 0.603E-02
87 831 87 831	0 4	6	17.11	4587.8	0.5	0.615E-02
87 831 87 831	154 1052	6 6	17.21 17.32	7371.5 5880.7	0.4 0.5	0.518E-02 0.883E-02
87 831	1152	7	18.05	8661.2	0.8	0.165E-01
87 831	1233	8	17.91	5773.4	2.2	0.359E-01

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87		1435	5	17.68	7180.4	0.6	0.100E-01
87	831	1522	8	17.58	6860.9	0.7	0.112E-01
87	831	1928	5	16.90	5819.3	0.2	0.307E-02
87		141	6	16.20	2984.0	0.3	0.3072-02
							0.445E-02
87		455	7	17.45	9655.1	0.2	0.366E-02
87	9 1	856	8	18.35	7665.7	1.9	0.331E-01
87		9 4	5	17.12	7738.0	0.2	0.395E-02
87		1328					
			8	17.83	6611.9	4.2	0.443E-01
87		1350	5	17.16	6722.5	0.1	0.292E-02
87	9 1	1357	8	17.63	5719.0	1.4	0.228E-01
87		2311	6	17.79	6883.5	0.7	0.110E-01
87		320	8	18.39	12134.0	0.6	0.183E-01
87	9.2	816	8	17.63	7244.6	0.6	0.960E-02
87	9 2	2213	5	18.62	12470.1	1.1	0.939E-02
87		2356	9	18.09	6804.8	2.2	
							0.345E-01
87		2133	8	18.48	12412.9	1.3	0.293E-01
87	93	2144	7	17.53	6780.6	0.8	0.822E-02
87	94	2011	5	17.60	9765.8	1.3	0.165E-01
87		038	7	17.63	5679.9	1.3	0.205E-01
	, J			17.03			
87		054	6	17.30	5847.8	0.4	0.558E-02
87	95	556	6	17.03	4777.1	0.8	0.973E-02
87	95	1553	5	17.60	6296.3	0.8	0.111E-01
87	9 5	1929	5.		4523.3		
			3.	16.74		0.6	0.743E-02
87		2051	5	18.22	8278.0	1.1	0.171E-01
87	95	2311	6	16.81	3893.1	0.6	0.668E-02
87		242	7	17.63	6784.6	0.9	0.114E-01
87		5 9	ŕ	17.91	6129.9		
						1.4	0.260E-01
87	9 6	813	6	17.53	5267.0	1.1	0.182E-01
87	96	14 3	6	16.97	6158.5	0.3	0.483E-02
87	97	430	6	17.73	10105.4	0.4	0.704E-02
87	9 7	726	Ğ				
				17.19	5485.2	0.4	0.661E-02
87	97	19 7	7	16.80	5024.9	0.2	0.419E-02
87	97	2020	8	17.95	7572.4	1.4	0.222E-01
87	98	1621	7	17.69	6174.4	0.8	0.134E-01
87	912	051	9	18.30		2.5	
					7887.9	2.5	0.458E-01
87	912	347	8	17.65	7933.0	0.7	0.907E-02
87	912	1734	8	18.19	12647.8	0.4	0.109E-01
87	912	2043	9	17.51	7298.3	0.8	0.178E-01
87	912	2338	8	17.29	5716.6	0.8	0.118E-01
87	913	322	8	17.45			
					7049.8	0.3	0.680E-02
87	913	516	6	17.52	11313.3	0.1	0.247E-02
87	913	733	8	18.24	7993.0	2.1	0.355E-01
87	913	916	5	17.56	8147.0	0.3	0.544E-02
87	913	928	6				
			•	17.03	4873.2	0.5	0.758E-02
	913	12 8	9	18.55	13939.7	1.5	0.375E-01
87	913	1250	8	18.42	9622.2	1.4	0.295E-01
87	913	1252	5	17.16	5819.4	0.3	0.457E-02
87		1326	6				
				16.98	5996.4	0.2	0.283E-02
87		16 0	9	17.35	5572.2	0.7	0.117E-01
87		17 0	6	16.89	5138.3	0.4	0.600E-02
87	913	2016	9	17.85	5809.6	1.1	0.193E-01
87			ŕ				
		2041	<u>′</u>	17.44	7241.5	0.4	0.683E-02
87		333	5	16.74	5466.0	0.2	0.752E-02
87	914	624	6	17.11	5770.9	0.4	0.574E-02
87	914	910	7	17.44	5891.0	0.6	0.710E-02
	914						
		1223	. 8	17.94	7978.5	1.1	0.217E-01
	914	18 2	8	17.70	7803.1	0.7	0.148E-01
87	914	2216	6	17.94	7433.4	1.0	0.847E-02
	915	251	6	17.41			
					7982.7	0.3	0.400E-02
87	915	256	7	17.29	7731.1	0.6	0.886E-02
87	915	348	8	18,14	9056.5	0.7	0.114E-01
87	915	718	7	17.34	4698.5	1.0	
87	915						0.160E-01
		1511	5	17.23	6921.0	0.5	0.835E-02
87	915	1553	8	18.30	12330.5	1.3	0.232E-01
	915	1713	6	16.53	4986.1	0.2	0.353E-02
87	916	049	8	17.29	11375.9	0.6	0.860E-02
			-		,,,,	J. J	0.0005-02

9 7	916	1 9	8	18.23	7347.7	1.8	0 3455 01
87		547	5		6425.5		0.345E-01
_				17.89		1.5	0.203E-01
87		1658	9	18.72	12765.0	1.2	0.353E-01
87		19 7	6	14.08	426.8	0.8	0.113E+00
87		2037	6	16.91	9296.8	0.4	0.643E-02
87	916	2115	9	18.68	13189.8	1.2	0.336E-01
87		2133	9	18.25	9594.8	1.1	0.210E-01
87		013	6	16.70	4520.2	0.2	
							0.453E-02
87		020	7	17.15	5467.1	0.4	0.778E-02
87		5 3	7	17.16	4899.7	0.7	0.996E-02
87		929	7	17.20	6323.4	0.3	0.410E-02
87	917	1324	8	17.98	6334.0	2.3	0.354E-01
87		1325	7	17.31	5527.4	0.6	0.115E-01
87		1656	7	17.51	6222.6	0.4	0.636E-02
87		1731	ż				
				17.23	5889.7	0.6	0.889E-02
87		1848	6	16.68	4344.5	0.3	0.464E-02
87		1854	8	17.45	9793.8	0.2	0.455E-02
87	917	19 3	9	18.18	7512.2	2.3	0.370E-01
87	917	2224	9	17.69	7102.9	0.8	0.138E-01
87	917	2227	6	20.08	27203.2	3.4	0.115E-01
87		811	8	18.00	6374.3		
			6			2.0	0.199E-01
87		1235	6	17.17	5676.5	0.4	0.568E-02
87		1819	9	18.24	12286.4	0.4	0.130E-01
87	918	2054	5	16.48	4893.9	0.1	0.237E-02
87	919	1 5	7	16.95	4859.3	0.4	0.691E-02
87	919	630	5	17.26	6883.1	0.2	0.328E-02
87	919	651	8	18.24	12735.9	0.4	0.119E-01
87	919	918	6	18.37			
					12902.5	0.7	0.177E-01
87	919	1028	7	17.47	6060.2	0.6	0.748E-02
87	919	1710	8	17.92	7030.2	1.0	0.178E-01
87	919	1711	7	17.80	9836.4	0.5	0.116E-01
87	920	427	6	16.96	4882.1	0.4	0.668E-02
87	920	1215	8	17.80	7479.5	0.6	0.112E-01
87	920	1822	7	17.36	6828.7	0.3	
87	920	1823	6				0.465E-02
				18.29	13179.0	0.7	0.181E-01
87	920	1920	7	17.55	6677.6	0.8	0.127E-01
87	921	2 2	7	17.91	6294.1	1.1	0.211E-01
87	921	518	9	18.33	15672.4	0.4	0.127E-01
87	921	15 1	6	16.92	4279.6	0.5	0.851E-02
87	921	21 5	8	18.48	8075.0	2.6	0.225E-01
87	921	23 8	9	17.74	7369.5	0.8	0.157E-01
87	922	254	ŕ				
87				17.62	6603.3	0.8	0.119E-01
	922	613	7	17.52	11075.7	0.6	0.877E-02
87		617	8	17.50	5449.5	0.9	0.157E-01
87	922	7 1	6	17.22	5591.0	0.8	0.111E-01
87	922	827	7	17.17	5046.8	0.5	0.872E-02
87	922	1127	7	17.12	4976.2	0.4	0.819E-02
87	922	15 8	6	17.50	5330.5		
87	922					1.2	0.116E-01
		1711	9	17.60	5474.4	1.0	
87		2237	6	17.31	4930.0	0.8	0.108E-01
87	923	27	8	17.43	5565.4	0.7	0.958E-02
87	923	259	9	17.91	9216.5	0.8	0.146E-01
87	923	310	7	17.29	8676.1	0.7	0.816E-02
87	923	5 4	5	17.50	9657.4		
87	923	941	2	17.50	3037.4	0.3	0.584E-02
			7	17.61	8175.4	0.4	0.772E-02
87	923	1551	5	17.62	7997.2	0.5	0.963E-02
87	923	2259	6	17.02	5283.8	0.4	0.445E-02
87	924	055	9	17.90	8291.3	0.6	0.107E-01
	924	056	6	17.63	6933.6		
87	924					0.7	0.116E-01
		142	8	17.30	6356.8	0.5	0.933E-02
	924	145	7	17.30	5632.8	1.6	0.146E-01
87	924	2 1	6	16.65	3799.5	0.3	0.612E-02
87	924	3 4	9	17.68	6688.8	0.5	0.954E-02
87	924	358	5	17.46	5449.4	0.7	
	924	6 0	7				0.986E-02
87	924	1212	5	17.34	5919.4	0.4	0.614E-02
	1	1414	5	17.35	4967.9	1.0	0.136E-01

87 87 87 87 87	924 924 924 924 925 925	1249 1251 13 1 1444 2127 351 8 3	9 6 7 6 5 5 6	18.56 17.16 17.32 16.98 17.40 16.88 16.83	13234.0 5551.2 7765.4 4227.8 6620.1 4551.6 4186.7	1.0 0.5 0.7 0.5 0.3 0.3	0.295E-01 0.787E-02 0.934E-02 0.843E-02 0.602E-02 0.503E-02 0.561E-02
87 87 87 87 87 87 87	925 925 925 925 925 925	1029 1157 1311 1843 2041 2224 2226 038 135	9 8 7 9 8 6 9 5	12.44 18.20 17.33 17.93 17.69 17.61 17.03 18.25	162.3 12268.1 5609.0 18408.2 5576.6 6289.8 6135.4 9067.6 5277.8	0.3 0.9 0.4 0.1 2.0 0.7 0.2	0.296E+00 0.143E-01 0.771E-02 0.226E-02 0.302E-01 0.108E-01 0.420E-02 0.215E-01
87 87 87 87 87 87 87	926 926 926 926 926 926 927 927	239 1211 1320 1338 1650 1815 013 216	367779899	17.01 18.29 16.92 17.76 17.63 17.93 17.58 18.14 17.78	14002.0 5046.0 8675.2 10281.6 12179.5 5590.3 8837.9	1.3 0.9 0.3 0.3 0.5 1.1	0.130E-01 0.164E-01 0.362E-02 0.650E-02 0.855E-02 0.105E-01 0.149E-01 0.201E-01
87 87 87 87 87 87 87	927 927 927 927 927 927 927 927 928	4 1 458 1237 1339 1343 1355 1445	5 7 5 9 6 6 9	17.70 17.62 17.13 18.27 17.61 17.67 17.09	9944.7 14972.1 7596.1 6472.5 14308.4 8850.1 7230.7 5121.9 8105.4	0.2 0.1 0.5 0.5 0.3 0.5 0.8 0.4 1.1	0.568E-02 0.363E-02 0.749E-02 0.541E-02 0.108E-01 0.843E-02 0.123E-01 0.549E-02 0.204E-01
87 87 87 87 87 87 87	928 928 928 928 928 929 929	4 3 644 11 6 1354 1923 029 517 7 7	8 5 6 6 9 9 5	17.20 17.31 17.19 16.67 17.33 17.69 17.65	7466.8 6705.1 6141.7 5339.5 6309.7 10087.1 5479.7 3392.5	0.2 0.5 0.5 0.2 0.4 0.2 1.5	0.204E-01 0.313E-02 0.688E-02 0.844E-02 0.288E-02 0.629E-02 0.430E-02 0.221E-01 0.848E-02
87 87 87 87 87 87 87	929 929 929 929 929 929 929	7 7 821 11 7 1134 1228 1242 1437 1751	7 6 7 8 7 5 9	17.50 17.13 17.41 16.99 17.07 16.18 18.38 17.75	6498.4 4958.0 7425.9 5019.8 5025.0 2744.7 11381.1 10264.9	0.9 0.5 0.3 0.7 0.6 0.6 1.6	0.113E-01 0.926E-02 0.415E-02 0.978E-02 0.807E-02 0.761E-02 0.279E-01 0.650E-02
87 87 87 87 87 87 87	929 929 929 929 929 929 929 930	1812 1813 19 2 20 7 2028 2039 2238 159	6 8 6 8 7 6 5	17.63 17.89 18.01 17.67 17.62 17.36 16.74 18.35	6707.8 7207.9 12968.5 5273.5 6246.9 6265.4 3861.8 9598.0	0.5 1.1 0.4 0.8 0.5 0.4 0.4	0.866E-02 0.129E-01 0.587E-02 0.139E-01 0.736E-02 0.732E-02 0.667E-02 0.500E-01
87 87 87 87 87 87 87	930 930 930 930 930 930 930 930	159 225 325 640 8 0 1024 1026 1047 430	9 9 6 5 9 7 8 9	17.99 17.59 17.83 17.02 16.54 18.19 17.27 17.59 17.88	7617.8 6171.0 11755.1 5665.1 4225.8 7584.4 7849.0 10550.0 7140.8	1.2 1.2 0.3 0.5 0.3 1.5 0.1	0.214E-01 0.127E-01 0.743E-02 0.529E-02 0.504E-02 0.293E-01 0.248E-02 0.283E-02
871 871						0.6	0.116E-01 0.202E-01

8710 1	1033	8	17.84	0000 2	Λ 4	0 3005 03
				9809.2	0.4	0.799E-02
8710 1	1141	5	16.75	4449.5	0.2	0.432E-02
8710 1	12 5	6	17.59		0.4	
				6996.9		0.730E-02
8710 1	1817	9	18.59	11766.8	2.2	0.394E-01
8710 1	2043	8	17.40	6892.8		0 6035 00
					0.4	0.623E-02
8710 1	23 7	8	18.04	8673.6	0.8	0.172E-01
8710 2	050	7				
			17.22	4983.6	0.5	0.888E-02
8710 2	130	9	17.49	7851.8	0.5	0.725E-02
		č				
8710 2	433	6	17.19	6908.7	1.1	0.105E-01
8710 2	714	7	17.38	5176.6	1.0	0.153E-01
	928					
		7	17.90	9370.3	0.5	0.924E-02
8710 3	10 6	6	17.61	7333.6	0.3	0.580E-02
		ž		7555.0		
8710 3	1933	5	17.63	7697.0	0.4	0.100E-01
8710 3	1935	6	17.26	5011.7	0.7	0.117E-01
8710 4	1844	7	17.64	7055.2	1.0	0.179E-01
8710 5	2111	6	17.05	4470.7	0.6	0.101E-01
8710 6	137					
		7	17.69	6263.9	1.1	0.134E-01
8710 6	754	5	17.09	6813.8	0.2	0.387E-02
8710 6	935	7	17.63			
				6947.7	1.2	0.213E-01
8710 6	23 6	6	16.91	5114.7	0.3	0.613E-02
8710 7	1125	7	17.21	4320.0		
					1.2	0.150E-01
8710 8	052	6	17.67	6021.3	1.3	0.178E-01
8710 8	76	7	17.49			
		,		5454.9	0.6	0.950E-02
8710 8	1612	5	17.06	6501.4	0.3	0.568E-02
8710 9	238	7	17.98	6744.0	1.8	
						0.219E-01
8710 9	642	5	17.12	5865.8	0.5	0.569E-02
8710 9	1642	5	16.85	4645.4	0.3	
						0.416E-02
8710 9	1644	7	17.29	5078.9	0.7	0.115E-01
8710 9	1911	6	16.96	5452.2	0.7	0.895E-02
			10.50			
871010	955	6	17.18	5033.6	0.4	0.792E-02
871010	1015	7	17.86	5859.0	2.0	0.329E-01
871010	19 7	7	17.10	4433.1	1.2	0.146E-01
871010	2355	7	17.96	6549.7	2.1	0.385E-01
871010	2355	7	17.63	4548.6	4.0	0.428E-01
871011	148	7	17.72	6485.6	1.2	0.219E-01
871011	153	7	17.32	5565.2	0.6	0.102E-01
871011	710	6	17.23	5843.1	0.4	0.724E-02
871012	20 6	6				0.7242-02
		0	16.92	4147.8	0.6	0.696E-02
871012	2340	7	18.26	8657.8	2.1	0.346E-01
871013	915	5	17.61			
		3		5822.9	1.3	0.142E-01
871013	1035	5	17.57	5874.1	0.5	0.856E-02
871013	1843	6	16.75			
				5159.0	0.2	0.508E-02
871014	628	6	17.27	5003.4	0.8	0.110E-01
871014	1329	6	17.91			
					1.8	0.259E-01
871015	10 4	5	17.47	5562.6	0.6	0.841E-02
871016	11 9	7	17.84			
				6391.4	1.4	0.213E-01
871016	1718	7	18.39	10553.0	1.5	0.343E-01
871016	1934	5	18.29	7863.5		
		2			1.7	0.163E-01
871017	2 0	6	16.76	5504.9	0.2	0.497E-02
871017	534	9	17.71	10765.4	0.2	
						0.377E-02
871017	814	8	17.92	5663.9	2.3	0.242E-01
871017	844	10	17.98	7179.6	1.5	
						0.208E-01
871017	1240	10	18.14	7909.7	0.9	0.201E-01
871017	1319	9	17.85	7494.6		
					0.7	0.129E-01
871017	1335	8	17.70	7008.2	0.6	· 0.104E-01
871017	2322	8	17.77	7288.5		
					0.6	0.112E-01
871018	013	8	17.51	5700.2	1.4	0.252E-01
871018	250	9				
		7	17.47	5809.4	0.7	0.109E-01
871018	435	8	17.09	6643.3	0.2	0.557E-02
871018		ě				
	546	5	16.74	3508.3	0.7	0.117E-01
871018	75	5	16.72	3507.7	1.0	0.124E-01
871018						
	1111	10	18.36	15444.7	0.3	0.885E-02
871018	1725	6	17.62	8385.4	0.3	0.504E-02
871019	212	6				
			17.88	8985.6	0.6	0.750E-02
871019	738	5	17.38	6327.2	0.8	0.138E-01
871019	96	6		7000 0		
	<i>y</i> 0	o	17.18	7880.0	0.1	0.389E-02

871019	1048	•	17 27	5001 0		
871019	1053	6 5	17.37	5081.0	0.7	0.114E-01
871019	12 8	9	16.72 18.05	3378.0	0.6	0.105E-01
871019	15 7	5	19.24	7552.3 22608.4	1.9	0.284E-01
871019	1818	9	17.86	6706.3	1.0	0.105E-01
871019	2235	7	18.29	26000.0	1.2	0.200E-01
871020	655	10	18.00	5588.1	0.0	0.241E-02
871020	1054	7	18.27	10537.3	2.7	0.285E-01
871020	1611	5	16.69	4023.7	1.0 0.3	0.997E-02
871020	17 3	ž	17.40	4496.2	1.4	0.105E-01
871020	1938	ġ	18.02	5850.5	2.6	0.224E-01 0.333E-01
871020	2056	5	18.05	11780.5	0.4	0.706E-02
871020	23 8	6	17.18	3968.8	1.0	0.190E-01
871021	333	7	18.24	8338.5	1.4	0.137E-01
871021	522	5	17.27	4783.7	0.6	0.122E-01
871021	1454	5	16.76	5790.6	0.2	0.714E-02
871021	17 0	7	17.96	6649.7	1.3	0.181E-01
871021	2157	6	18.66	37369.6	0.1	0.145E-02
871022	731	6	16.87	4910.9	0.3	0.567E-02
871022	1235	9	17.55	4641.1	2.0	0.218E-01
871022	1326	10	18.21	5548.3	4.2	0.561E-01
871022	19 2	6	17.50	8214.4	0.3	0.562E-02
871022	2252	8	18.54	7395.6	3.9	0.546E-01
871023	135	_. 5	18.09	5309.8	3.8	0.194E-01
871023	842	9	18.05	7366.5	1.2	0.224E-01
871023	920	6	16.95	4360.1	0.7	0.122E-01
871023	1020	5	17.38	5457.4	0.8	0.125E-01
871023	1325	. 6	17.42	3771.4	3.2	0.355E-01
871024	239	8	18.61	40055.0	0.0	0.346E-02
871024	543	8	17.61	4204.4	2.5	0.367E-01
871024	621	6	17.22	6235.8	0.3	0.772E-02
871024	631	6	17.75	5779.5	1.1	0.163E-01
871024 871024	1112	7	16.97	3753.7	1.6	0.157E-01
871024	1148 1150	9	18.82	7836.7	6.6	0.787E-01
871024	1420	8 10	18.09	8232.7	1.7	0.257E-01
871024	2014	8	18.61 18.64	11230.4	1.8	0.454E-01
871024	2039	5	18.01	7596.7 16811.8	13.8	0.856E-01
871024	21 9	7	19.04	18135.0	0.2 1.2	0.671E-02
871025	248	5	16.96	5011.7	0.4	0.298E-01 0.669E-02
871025	358	5	17.69	7101.0	0.5	0.889E-02
871025	612	8	18.44	8624.3	3.5	0.856E-01
871025	77	5	16.86	3741.2	0.6	0.929E-02
871025	725	8	17.63	5621.7	1.2	0.187E-01
871025	952	5	16.87	4483.9	0.3	0.573E-02
871025	1013	6	16.52	4030.8	0.2	0.484E-02
871025	1028	8	17.61	4382.6	2.3	0.352E-01
871025	1046	10	18.55	11173.0	1.4	0.349E-01
871025	12 9	7	17.49	4194.7	2.7	0.295E-01
871025	1238	7	18.57	14551.5	3.6	0.532E-01
871025	1453	6	17.31	5030.3	1.1	0.125E-01
871025	1517	7	17.31	5552.4	0.5	0.951E-02
871025	16 0	9	17.84	7502.2	1.9	0.239E-01
871025	1728	7	17.96	7177.7	1.4	0.249E-01
871025	1813	5	19.77	48317.7	0.4	0.200E-01
871025	1816	10	18.66	14518.0	3.6	0.408E-01
871025	21 5	5	16.83	2977.6	1.6	0.162E-01
871025	2314	9	17.52	6209.9	0.7	0.134E-01
871026	226	6	17.04	4384.1	0.5	0.943E-02
871026 871026	458	7	17.81	5615.9	1.7	0.247E-01
871026	537	6	17.32	5319.5	0.8	0.138E-01
871026	654	8	17.70	4737.5	2.6	0.397E-01
871026	1421	6	17.09	4513.5	0.7	0.112E-01
871027	1437 9 5	5 7	17.39	4237.0	1.5	0.204E-01
871027	11 5	, 5	18.03	7041.5	1.3	0.245E-01
,	** J	3	16.71	3724.3	0.5	0.723E-02

871028 871028 871028 871028 871028 871028 871028 871030 871031 871031 871031 871113 87111 5 87111 5 87111 6 87111 6 87111 7 7 87111 7 87111 8 87111 8	113 346 350 655 912 127 133 149 146 147 146 147 147 147 147 147 147 147 147	6889759960979975787758787765676668578788778858757551755781	17.30 17.31 18.424 17.30 17.31 18.424 17.30 17.31	6628.3 5127.3 8061.8 55127.3 8061.8 5598.4 5605.2 66796.2 12574.2 6796.2 13611.3 42525.0 66515.8 46515.8 46515.8 465192.8 465192.8 48592.9 18493.2 4876.2 18493.4 2076.2 4121.9 5272.1 18493.4 104.5 5945.4 104.3 104.5 105.8 106.3 10	7.62.16.5.4.3.5.5.6.5.3.2.6.3.8.0.3.9.3.0.0.9.4.8.1.4.5.4.0.2.0.8.1.4.2.2.1.3.8.6.6.9.5.3.8.3.5.3.4.7.0.5.1.0.6.9.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	0.121E-01 0.144E-01 0.238E-01 0.497E-01 0.226E-01 0.108E-01 0.404E-01 0.266E-01 0.985E-02 0.590E-01 0.1877E-02 0.218E-01 0.988E-02 0.218E-01 0.376E-01 0.376E-01 0.376E-01 0.376E-01 0.476E-02 0.136E-01 0.476E-02 0.266E-01 0.144E-01 0.700E-02 0.265E-01 0.165E-01
8711 8	010	5	16.63	3455.3	0.5	0.678E-02
8711 8	011	5	16.73	4338.8	1.1	0.118E-01
8711 8	255	7	17.12	4561.1	1.0	0.121E-01
8711 8	3 0	8	18.42	11676.5	1.6	0.334E-01

8711 8 8711 8 8711 8	1544 1854 2036	6 6 7	17.11 17.12 17.33	4725.6 6220.3	0.5	0.104E-01 0.728E-02
8711 9 8711 9	325 840	5 8	16.25 17.51	5377.2 4422.3 4636.5	0.5	0.115E-01 0.492E-02
8711 9 8711 9	1519 21 2	6 5	16.79 16.53	3789.9 3536.1	1.6 0.5 0.5	0.250E-01 0.883E-02
8711 9 8711 9	2115 2130	7 7	17.30 17.47	3964.0 4519.5	1.9	0.776E-02 0.207E-01 0.165E-01
8711 9 8711 9	22 8 23 9	6 7	18.68 17.64	8833.7 5167.2	3.5 1.5	0.185E-01 0.237E-01
871110 871110	018 826	5	16.58	4357.5 6881.7	0.2	0.367E-01 0.367E-02 0.163E-01

APPENDIX B EVENT LISTING WITH LOCATIONS

SOUTH GEYSERS EARTHQUAKES 6/10-11/10/87

DATE	TIME	LATITUDE	LONGITUDE	ELEVATION	TOCHOM	MAC	0.7
87 610	1830 12.76	397247.47	1790474.38		LOGMOM	MAG	QL
	1836 12.76			-13456.40	18.05	1.66	Þ
87 610		396926.94	1790348.25	-13261.85	18.14	1.72	Ъ
87 610	2134 31.49	404363.88	1787038.63	-2869.00	17.26	1.05	Þ
87 610	2140 20.72	409095.44	1776537.25	-13477.29	18.86	2.27	a
87 610	2215 54.65	405016.41	1785277.88	-2695.06	17.26	1.04	b
87 611	129 32.74	409866.09	1778475.38	-13479.73	17.42		
87 611	142 59.77	405848.44				1.17	a
			1777743.13	-13382.77	18.19	1.76	a
87 611	2 5 56.94	395388.91	1801519.88		17.65	1.35	a
87 611	222 7.45	406950.13	1776450.88	-34624.94	19.17	2.52	С
87 611	336 37.51	406208.66	1785851.75	-18566.55	17.64	1.34	ā
87 611	834 40.96	407374.63	1782168.25	-11837.42	17.64		
87 611	1354 37.88					1.34	Þ
87 611		409105.59	1780280.63	-13087.83	18.10	1.69	8
	1635 28.16	405356.31	1781912.38	-8410.09	17.47	1.21	þ
87 611	1857 10.33	406968.16	1780990.25	-6254.74	17.59	1.30	С
87 611	2211 35.85	395515.88	1796532.38	-13400.28	18.58	2.07	a
87 612	027 17.67	407787.69	1776616.25	-13477.80	17.89	1.53	a
87 612	935 41.04	405784.78	1782577.38				
87 612				-12647.45	17.79	1.45	a
	1011 7.39	399119.50	1792695.13	-4908.64	17.21	1.00	С
87 612	1054 25.93	406526.56	1781126.63	-13447.50	17.70	1.39	a
87 612	1522 31.53	407384.16	1778361.88	-14233.90	17.99	1.61	Þ
87 612	1635 28.40	404706.72	1783347.50	-5492.74	17.24	1.03	Ъ
87 612	1726 29.34	405908.13	1782861.88	-6179.16			
87 612	1749 5.79	405230.66	1785757.88		17.05	0.88	þ
87 612				-1156.69	16.89	0.76	Ъ
	1753 53.62	404870.41	1785586.63	-2934.81	17.08	0.91	b
87 612	1834 32.61	404999.00	1786260.00	-2826.68	17.21	1.00	a
87 612	1938 20.63	402232.63	1786080.00	-2598.92	16.93	0.79	b
87 612	1940 30.65	404024.94	1787769.25	-1576.74	17.00	0.85	
87 612	2114 11.43	404964.25	1785431.50				a
87 612	22 8 56.51			-5309.78	17.91	1.54	Þ
		404132.88	1786991.75	-2932.27	16.94	0.80	С
87 612	2312 32.39	403662.44	1786635.13	-4312.94	17.12	0.94	a
87 613	528 58.77	406269.34	1785206.38	-1884.13	17.62	1.32	ь
87 613	747 44.39	402529.88	1788724.63	-23203.87	18.44	1.95	b
87 613	826 9.88	407703.72	1776181.75	-13453.03			
87 613	1058 20.74	410544.22			18.02	1.63	a
			1781410.50	-13182.46	17.63	1.33	a
87 613	1312 8.73	403965.91	1786375.25	-164.13	17.01	0.86	b
87 613	1320 44.71	409871.97	1779405.50	-31390.56	18.41	1.93	b
87 613	1511 44.30	405647.31	1783539.00	-7268.01	16.98	0.83	b
87 613	1923 52.02	409355.59	1785647.50	-13422.10	17.85	1.50	
87 613	1946 44.93	410136.09	1783544.00				a
87 613	2052 50.23			-13216.72	18.18	1.75	a
		403889.78	1791147.25	-8845.98	17.47	1.21	b
87 613	2054 7.10	403567.63	1790662.00	-9767.79	17.65	1.35	Ъ
87 613	22 9 7.69	409860.84	1776845.75	-15177.78	18.01	1.62	C
87 613	2317 2.61	395783.56	1786577.50	-11525.89	17.78	1.45	p.
87 614	026 43.54	404444.88	1780253.38	-16311.55			
87 614	029 58.80	407961.91	1777056.88		17.53	1.25	C
87 614	119 38.73		1777036.88	-11934.71	18.05	1.65	8
		407160.41	1776894.88	-13135.94	17.84	1.49	a
87 614	217 48.93	397892.81	1794395.75	-13214.30	18.24	1.80	a
87 614	314 37.37	392785.59	1781437.00	-33348.18	18.29	1.84	c
87 614	4 6 34.86	409421.53	1780841.25	-12957.11	17.68	1.37	
87 614	439 38.29	405898.59	1784894.38				a
87 614	8 3 32.81			-7424.45	17.34	1.11	Þ
	1040 00 10	407809.00	1778020.88	-13257.65	18.14	1.73	a
87 614	1042 20.19	405840.88	1785016.75	-8773.78	17.49	1.22	C
87 614	1052 54.68	406482.59	1783972.13	-16473.13	18.95	2.35	a
87 614	1353 19.53	412926.44	1778791.75	-15040.58	18.01		
87 614	1740 15.85	407447.47				1.62	C
87 614	1835 28.72		1778230.50	-12955.75	18.01	1.62	a
87 614	1050 -05 -5	409175.47	1776553.63	-13015.69	17.73	1.41	a
	1958 25.59	397883.28	1777011.00	-499.55	16.75	0.65	b
87 614	2027 46.11	403725.09	1786632.88	-8254.03	17.26	1.04	
87 614	2053 1.92	410443.81	1782311.63	-13427.08			þ
87 615	3 2 30.92	403945.22			17.89	1.53	a
87 615	1656 17.51		1784006.38	-10869.82	18.11	1.70	C
87 615	7331 30 C.	410276.19	1784799.50	-3816.48	17.49	1.22	b
07 615	2321 22.54	407792.94	1787858.75	-3554.39	17.12	0.94	b
87 615	2331 39.71	408736.84	1776260.88	-13134.10	18.39	1.91	a
					20.03	4.74	a

07	C1 C	222 40 22	406440 30	1201000 00				
	616	323 49.23	406449.78	1781003.00	-22179.73	18.65	2.12	ď
87	616	8 8 14.01	404028.22	1791228.50	-12859.20	17.93	1.56	a
87	616	9 9 40.53	395477.16	1784605.00	-11621.55	17.71	1.39	
								a
	616	1734 19.01	409164.66	1782643.50	-9593.60	18.01	1.62	С
87	616	1912 22.98	404996.38	1791721.75	-13342.32	18.13	1.72	a
	616	2332 35.41						
			394500.47	1782071.13	-10497.93	17.43	1.18	a
87	617	212 56.81	405257.56	1781951.38	-7943.32	18.30	1.85	C
87	617	7 2 19.80	406547.88	1779642.38	-16975.50			
						18.14	1.72	a
87	617	734 34.82	410220.72	1780204.63	-13314.59	17.53	1.25	a
87	617	9 6 44.75	405907.16	1782084.00	-13329.30			
						18.28	1.83	а
87		10 7 8.91	408738.78	1786863.38	-11375.67	17.89	1.53	С
87	617	1635 52.47	405919.94	1784187.38	-5630.50	17.79	1.46	
								a
87	617	1825 21.86	408545.88	1781387.75	-13479.27	17.52	1.25	a
87	617	2123 18.66	396279.63	1786360.75	-10840.32	17.55	1.27	C
87	618	045 47.90	411562.59	1786211.00	-10877.58			
						17.28	1.06	C
	618	1359 1.19	403827.44	1786741.00	-7306.64	17.49	1.22	a
87	618	17 5 43.05	408763.06	1785059.38	-10925.21	17.86	1.50	c
	618							
		1759 27.02	402850.09	1785218.75	-8770.90	17.97	1.59	C
87	618	1940 58.12	407274.25	1786826.75	1584.51	16.52	0.48	a
87		1 4 24.85	400591.59	1776125.50	-6832.31			
						17.63	1.33	Þ
87	619	341 17.10	396806.84	1792617.38	8689.16	16.75	0.65	а
87	619	538 51.81	403440.97	1777700.38	-11256.25	18.20	1.77	
87								С
		539 55.97	404374.34	1779608.38	-10497.37	17.57	1.28	C
87	619	651 25.04	407107.25	1787760.75	2038.73	16.69	0.61	a
87		1158 52.13	403373.38	1786911.63				
					-7118.37	17.57	1.28	b
87		1738 13.67	405671.25	1776295.13	-13315.33	17.58	1.29	a
87	619	1919 11.82	407562.00	1798546.63	-19786.62	18.73		
							2.18	С
87		041 14.69	407575.44	1776395.38	-13436.84	17.78	1.44	a
87	620	134 33.61	397665.44	1799977.38	-14526.19	18.00	1.61	a
87	620	333 30.84						
			407624.31	1779190.63	-13111.76	17.71	1.39	a
87	620	350 23.24	391879.09	1782890.13	45329.60	17.22	1.01	d
87	620	845 40.14	404984.91	1783613.25				
					-8844.07	17.21	1.01	a
87	620	1423 56.42	411857.19	1787104.88	24146.03	15.34	-0.43	a
87	620	1424 20.40	399855.72	1781233.38	-34753.32	18.91	2.32	d
87		1522 17.98						
			403482.00	1781184.50	-9620.57	18.47	1.98	þ
87	620	22 0 53.84	408471.41	1781925.00	-12947.30	17.54	1.26	a
87	621	046 43.30	405160.09	1790479.25	583.60	16.79		
	621						0.68	C
		058 18.61	406925.84	1784755.88	-10698.29	17.87	1.52	C
87	621	246 27.73	411425.44	1780183.50	-12899.88	18.13	1.71	a
87	621	1727 2.38	406402.88	1787112.13	-5523.89	17.38		
87	621						1.14	þ
		2131 24.85	402119.78	1790360.88	-13467.45	17.70	1.38	a
87	621	2312 15.17	399374.09	1793694.75	33.56	16.22	0.25	b
87	622	430 58.84	409501.56	1781236.38				
					-12882.82	18.18	1.75	a
	622	941 9.76	409873.31	1778850.38	-13433.97	17.80	1.46	b
87	622	12 1 58.92	408845.09	1786238.38	-11171.88	17.75		
	622					17.75	1.42	C
		1723 6.89	404337.28	1790449.00	-11880.35	17.56	1.27	C
	622	2013 31.49	405750.66	1787061.25	-4512.79	16.83	0.72	ь
87	622	2019 15.52	405504.25					
				1787344.13	-3475.39	16.79	0.68	b
	622	2356 20.81	411588.81	1778564.13	-11085.48	17.01	0.85	þ
87	623	726 9.90	410291.25	1780954.75	-12860.77	17.13		
							0.95	þ
	623	1418 39.24	402085.34	1778952.50	-20735.84	18.70	2.16	đ
87	624	056 12.77	413011.72	1779168.38	-11761.51	17.10	0.92	
	624							Þ
		128 11.93	397422.00	1794321.25	-13377.44	17.33	1.10	a
87	624	211 20.94	398902.63	1790553.25	-10457.83	17.69	1.37	b
	624	332 2.85	408506.19					
				1781696.50	-12122.73	17.59	1.30	a
	624	1622 15.43	405569.88	1787208.63	-4699.42	17.07	0.90	b
87	624	1627 9.84	406489.47	1790203.13				
					-13439.34	17.45	1.19	а
	624	20 1 57.97	405010.19	1790964.38	-13066.29	17.57	1.29	b
87	624	·2018 45.71	408156.47	17.76392.38	-13042.90	17.61	1.31	Þ
	624							
		2213 57.89	407930.75	1781146.63	-12598.17	18.02	1.63	b
	624	2242 41.84	407709.28	1780998.63	-13279.76	18.29	1.84	þ
87	624	2350 43.06	402729.69					
		-330 43.00		1780300.75	-8077.03	17.79	1.45	Þ
	625	110 16.68	408848.06	1777769.50	-13480.19	17.17	0.98	a
87	625	315 23.84	409069.50	1778133.38	-12088.44	18.17		
	625	6 4 40 00					1.75	a
		6 4 40.83	405108.59	1791155.38	-13394.75	17.76	1.43	a
8/	625	1047 15.14	407502.59	1780863.25	-12815.72	18.23	1.79	a
		·				,	4.17	ca.

07	C 2 E	3053 04 14	400104 60					
	625	1053 24.14	409104.63	1787895.63	-12139.09	17.39	1.15	a
87	625	1114 36.75	411347.38	1777973.50	-12699.97	17.49	1.22	b
	625	1230 2.03	409918.25					
				1783714.00	-12977.79	17.65	1.35	a
87	625	1248 21.89	408850.69	1781638.25	-12691.93	17.52	1.24	a
87	625	15 6 27.84	407614.81	1780777.13	-13344.94			
						17.45	1.19	a
87	625	1543 0.66	410346.06	1780105.00	-16148.37	17.37	1.13	ь
87	625	1713 14.86	405642.03	1792356.50	-12852.65			
						17.99	1.61	C
87	625	1733 50.72	407089.22	1785010.75	~2819.18	16.78	0.67	a
87	625	2218 9.51	407741.44	1784138.50	-5184.13			
-						17.12	0.94	а
87	625	2233 23.61	412401.16	1777200.63	-13415.51	18.63	2.10	a
87	625	2243 31.64	411940.84	1777644.75	-13232.07	17.81	1.47	
			412100.07					þ
87		114 51.93	413183.97	1785866.13	-13342.90	18.09	1.68	а
87	626	410 29.78	411398.53	1778202.38	-12588.87	17.70	1.39	a
87	626	1044 24.77						
_			408518.97		-13080.65	18.33	1.87	a
87	626	1321 24.62	411008.13	1776614.50	-14294.92	17.79	1.45	a
87	626	1448 12.45	398671.03	1789459.13	-5099.00			
						17.21	1.01	þ
87		1737 6.01	412190.84	1783072.75	-12983.23	18.38	1.91	þ
87	626	19 5 45.69	406940.28	1785529.13	-2956.07			
					-2930.07	17.05	0.88	þ
87	626	1924 21.35	405514.78	1785067.75	-6858.97	17.18	0.98	С
87	626	1944 3.10	406453.75	1793378.75	-940.22	16.53	0.49	b
87	627							ט
		014 27.93	410570.47	1781743.38	-13433.28	17.57	1.29	a
87	627	040 11.71	407681.72	1777041.00	-13410.33	17.75	1.42	а
87	627							
		519 7.78	405979.66	1777723.88	-11471.08	18.19	1.76	C
87	627	537 5.89	409087.53	1781334.00	-12518.39	18.02	1.63	a
87	627	1735 36.94						
			404704.72	1791287.38	-13474.30	17.59	1.30	a
87	627	20 7 14.87	403252.34	1785178.75	-15854.68	17.71	1.39	a
87	627	2058 59.17	405931.09	1781501.00				
					-9246.49	17.44	1.18	C
87	627	22 4 19.36	404693.25	1792986.50	-24285.57	17.69	1.38	b
87	628	035 56.08	407537.38	1784793.63	-9556.16			
						17.09	0.92	C
87	628	222 55.96	404461.31	1790908.38	-13327,45	17.75	1.42	a
87	628	837 10.91	402339.59	1790379.13	-11321.90	17.74		
87	628						1.41	Þ
_		845 56.33	405692.25	1788313.00	-22021.39	18.08	1.68	C
87	628	931 54.01	401243.47	1778041.63	-22356.24	17.69	1.38	c
87	628	1051 31.40	411270.59					
				1801301.25	-20463.84	17.21	1.01	a
87	628	1123 46.56	404500.00	1787638.38	-1997.91	17.30	1.08	C
87	628	1728 12.22	405043.00	1792647.25	-9272.58			
87						17.15	0.96	b
	628	1744 46.12	403293.97	1789887.63	-10566.27	17.16	0.97	С
87	628	1954 20.98	402489.53	1788484.13	-12259.91	17.41	1.16	
87	628	2029 18.52	406201.44					C
				1792612.75	-7900.34	17.06	0.89	Ъ
87	628	2142 13.96	405001.31	1780775.63	-11256.83	17.47	1.20	b
87	628	2325 23.55	413897.88	1800212.50				
					-19500.29	17.63	1.33	C
	629	140 22.79	395372.50	1802386.38	-13983.67	17.53	1.25	d
87	629	238 37.75	396408.88	1790141.38				
	629			1/90141.30	-12093.29	17.58	1.29	a
		315 0.90	406890.06	1778324.75	-12540.37	17.42	1.17	Ъ
87	629	348 44.97	406319.88	1781823.25	-11229.28	17.64		
	629	2250 55.03					1.34	þ
			397197.94	1792186.88	-12236.82	16.93	0.79	d
87	630	212 7.05	407167.31	1783791.25	-26270.13	17.34	1.11	С
87	630	15 7 38.11	405993.44					
				1781471.88	-13416.07	17.31	1.08	a
	630	1827 53.94	403005.28	1783663.13	-10031.56	18.01	1.62	b
87	7 1	614 56.88	406364.47	1779545.63	-12885.94			
	7 1					17.36	1.12	a
		19 7 31.39	406222.44	1783524.50	-20096.87	17.92	1.55	С
87	7 1	2154 48.04	397490.91	1797461.75	-12550.24	17.88	1.52	
87	7 1	2241 52.96						a
		2241 32.90	404753.63	1789332.25	-16273.89	18.02	1.63	a
	7 2	254 15.70	404166.03	1776062.88	-12822.75	17.93	1.56	Ъ
87	7 2	420 59.59	410841.78					
				1776441.75	-13358.51	18.31	1.85	a
	7 2	520 12.72	408940.25	1776488.38	-13159.33	17.81	1.47	a
87	7 2	2140 19.29	407406.81	1788099.25	2864.70			
	7 3					16.32	0.32	Þ
		19 4 49.17	406089.56	1784531.50	-8560.55	17.53	1.25	a
87	7 3	.2156 7.08	408394.66	1785337.88	-13236.12			
	7 4					17.72	1.40	а
		019 52.83	407578.72	1784119.50	-13016.11	18.08	1.68	a
87	7 4	035 7.81	403413.41	1783052.50	-12281.19	17.99		
	7 4	1636 47.21					1.61	С
			404411.75	1784063.63	-8073.60	17.31	1.08	С
	7 4	1840 33.28	404334.31	1784949.88	-6911.83	17.49	1.22	
87	7 4	2238 42.00	391735.06					C
	7 4			1785249.25	-24361.57	18.02	1.63	a
		2354 57.08	398776.66	1795443.63	-13266.60	18.11	1.70	a
87	7 5	324 9.38	399248.44	1780040.50				
		- 2.30	~~~~ TU. TT	4/00040.30	7138.59	16.34	0.34	d

^-		222 42 22	400004 00		2011 22			
87		339 48.98	403384.22	1785513.38	-9244.03	17.16	0.97	C
87	7 5	341 32.12	403795.63	1786315.38	-8493.70	16.85	0.73	C
87	7 5	519 50.65	395816.72	1787574.13	-11606.11	17.32	1.09	b
87	7 5							
8/	7 5	1253 49.09	404254.59	1782236.00	-9595.61	17.43	1.18	þ
87 '	75	1512 4.91	406143.34	1779432.75	-11735.65	17.86	1.51	Þ
87 '	7 5	1952 32.01	408633.16	1779908.13	-10654.66	17.41	1.16	
								C
87 '	76	023 29.18	403124.38	1787454.75	-8725.64	16.80	0.69	Ъ
87 '	7 6	024 4.56	409783.75	1777717.63	-28911.63	19.25	2.58	d
87	76	339 19.99	409339.84	1780303.63	-12072.05	18.08	1.68	
								a
	76	1045 3.13	397421.34	1784083.38	-22011.45	18.07	1.67	d
87	76	1232 10.07	390632.06	1785201.38	-23097.13	18.04	1.64	a
	76	2043 0.81	406929.13	1778251.13	-13059.18	17.62		
							1.32	a
	7 7	045 14.89	409417.28	1783021.88	-12980.82	17.44	1.18	a
87	7 7	327 36.99	404596.47	1784061.00	-16368.76	17.77	1.44	a
	ל ל							
			407906.78	1776546.38	-12307.23	18.00	1.61	a
87	7 7	638 1.86	407418.63	1778006.25	-12213.96	17.53	1.25	a
87	77	656 45.08	406982.59	1784701.13	-10628.53	17.42	1.17	C
	7 7	846 1.96	407285.72	1782844.13	-13311.18	17.66	1.36	а
87 '	77	1328 50.30	404725.41	1785120.13	-6929.69	17.03	0.87	b
	7 7	1329 39.30	404834.31	1784425.88				
					-7262.21	17.09	0.92	Þ
87	77	16 3 42.92	409715.50	1787810.00	-12465.45	17.35	1.11	a
87 '	7 7	1628 19.88	405946.19	1780862.25	-13419.63	17.74	1.42	a
	7 7	21 3 5.86	408787.03	1782729.75	-13157.45	17.94	1.57	A
87 '	78	4 7 21.05	403721.16	1785982.88	-9429.23	17.28	1.06	Þ
87 '	78	651 9.31	405201.09	1785405.25	-6791.67	17.21	1.01	b
	7 8	1110 17.86	408490.13	1785977.75	-13380.07	18.28	1.83	b
87 '	78	1126 3.64	411947.44	1778009.25	-13379.90	18.39	1.92	a
87 1	78	1255 37.28	405661.09	1783539.00	-7704.94	17.34	1.10	
07								Ъ
87	7 B	1657 41.11	403242.47	1782577.38	-26611.59	18.54	2.03	þ
87 1	78	1714 42.05	404338.59	1787507.75	8730.86	15.99	0.07	a
87 '	78	2025 51.94	410281.44	1781219.13	-11630.88	17.48		
							1.21	C
	7 9	618 26.66	404976.06	1786961.50	-4580.38	16.83	0.72	Ъ
87 1	79	738 1.14	407429.09	1783527.50	-9885.89	17.16	0.97	ь
87 '	79	8 6 40.96	408405.78	1783719.13	-11917.84	17.32	1.10	
								C
	79	1359 6.39	408041.63	1783872.75	-6206.60	16.95	0.81	р
87 1	79	1525 32.78	406715.53	1778231.63	-13273.90	17.78	1.44	a
	7 9	1545 4.80	407375.63	1781988.50				
					-13185.09	18.40	1.92	C
	79	1620 1.75	408432.38	1778596.88	-13372.85	18.45	1.96	Þ
87 7	710	056 1.07	403411.09	1786328.75	-8963.93	17.04	0.88	С
	710	056 38.07	403807.44	1786107.25				
					-8964.54	17.41	1.16	Þ
	710	058 10.32	403468.19	1789243.25	-3997.60	16.49	0.45	C
87 7	710	128 22.08	403658.16	1786168.38	-8749.58	17.32	1.09	b
	710	742 58.02	407728.97					
				1782413.38	-11272.35	17.12	0.94	С
87	710	1018 2.94	408856.91	1790950.00	-17535.56	17.57	1.29	đ
87 7	710	1316 49.06	405935.69	1782316.63	-10943.10	17.45	1.19	b
87 7		1539 30.81	397441.69					
				1789692.25	-12977.31	17.67	1.36	þ
	710	1659 59.54	407833.63	1786081.00	-4086.67	17.12	0.94	b
87 7	711	1914 15.93	406220.78.	1782649.25	-13439.47	17.23	1.03	b
87		2150 33.68						
			397377.41	1791906.75	-34046.37	18.62	2.09	C
87	712	7 7 18.78	405285.75	1777153.38	-13343.49	17.43	1.17	b
87 7	712	11 4 45.70	405259.19	1779355.50	-15942.90	17.59	1.30	
								a
87		1515 42.41	407616.09	1776285.88	-18934.42	18.37	1.90	þ
87 7	712	1717 1.34	404731.31	1789138.00	-7361.07	17.74	1.41	đ
	712	1717 25.77		1776700 20	20012 17			
			407423.88		-79913.17	19.58	2.83	d
87 7	712	22 9 41.62	407697.47	1780292.38	-32468.08	18.02	1.63	a
87 7	713	1630 13.78	407312.31	1786707.25	-13328.68	17.56	1.28	
	713							a
		1930 46.44	403765.44	1780967.75	-17404.25	17.77	1.44	C
87 7	713	1945 5.12	393910.25	1788233.88	17690.45	15.82	-0.06	a
		. 252 30.39	396573.25					
				1783605.25	-36580.56	18.56	2.05	d
	714	1932 42.32	397242.22	1788438.38	-39412.58	18.88	2.29	C
87 7	714	1937 5.67	396681.88	1794734.25	-17160.48	17.85	1.50	d
	714							
		2354 32.76	404879.91	1779403.25	-13184.29	17.77	1.44	Ъ
	715	343 9.83	406009.50	1780727.38	-13234.41	17.50	1.23	b
87 7	715	454 15.09	404466.22	1787048.88	-14955.45			
	715	734 36 31				18.13	1.72	d
		734 36.21	405371.72	1790417.88	-3413.26	16.91	0.78	b
87 7	/15	1427 40.46	403930.78	1779329.25	-18096.85	17.54	1.26	c
			· · ·			_ ,	U	U

97	715	15 2 50.80	406067 16	1701001 20	12222			
			406967.16	1781801.38	-13332.60	17.86	1.50	a
87	715	1614 0.18	404172.59	1785298.25	-15682.90	18.17	1.74	a
87	715	1913 36.81	404303.81					
				1788512.75	4781.83	16.10	0.16	a
87	715	2020 43.42	406556.41	1786401.38	-5821.16	16.99	0.84	C
87	715	2137 12.66	410742.72	1778144.38	-13477.04			
	715				-13477.04	17.51	1.23	a
		2146 44.83	408624.31	1784382.63	-13270.16	17.70	1.38	С
87	715	2354 31.10	407166.31	1790012.38	-9303.20	17.14	0.96	
87	716	114 33.31						C
			405343.19	1782761.38	-7264.16	16.98	0.83	a
87	716	128 1.72	405913.06	1776468.50	-13477.37	18.33	1.87	a
87	716	2 3 56.28	405934.69					a
				1787781.75	-13359.00	17.12	0.94	a
87	716	239 49.77	410499.94	1778382.63	-13346.65	17.88	1.52	a
87	716	514 37.07	410159.38	1788098.75	-12060 02			
				1700090.75	-12860.03	17.93	1.56	а
87	716	555 28.32	394305.25	1793167.50	-13064.10	17.90	1.54	a
87	716	1643 25.98	402027.59	1780105.00	-11157.64			
87	716					17.81	1.47	d
		2052 9.69	405846.44	1776211.38	-13027.45	17.89	1.53	C
87	717	523 24.14	408246.66	1784852.00	-8934.38	17.68	1.37	c
87	717	1939 0.72	407461.91					
				1778012.63	-13089.15	18.62	2.09	a
87	717	2027 58.79	396604.44	1791226.38	-12989.24	17.79	1.45	С
87	717	2120 57.85	409979.59	1781799.63	-12240 66			
					-13349.66	17.64	1.34	a
87	717	2246 2.91	406869.75	1779533.88	-12132.66	17.57	1.28	b
87	717	2246 58.08	405085.66	1781343.50	-9352.65	17.67		
87	718	523 37.81					1.36	C
			405539.69	1780521.63	-13255.92	18.03	1.64	C
87	718	1254 12.71	396541.44	1788528.25	-11946.95	18.00	1.62	þ
87	718	2015 35.71	396628.06	1788497.38				
_					-11674.44	17.22	1.02	С
	719	0 6 44.20	403105.00	1792630.38	-8593.28	17.45	1.20	С
87	719	136 41.12	410346.41	1785947.88	-12975.65			
	719	316 59.65				17.78	1.45	Ъ
			410202.34	1776872.25	-15092.49	17.98	1.60	a
87	719	516 2.08	407805.41	1781603.75	-10237.11	17.78	1.45	
87	719	1240 7.26	404974.72					þ
				1784635.88	-7306.65	16.87	0.75	C
	719	1330 14.58	395458.47	1779925.50	-2764.96	16.75	0.65	C
87	719	17 5 50.98	407210.94	1780601.38				
	719				-11917.72	17.70	1.38	a
		1727 2.92	408503.22	1786817.50	-12306.23	17.34	1.11	þ
87	719	1832 45.50	397797.00	1794028.38	-3417.56	16.96	0.82	
87	719	19 5 14.82	407496.69	1703157 13				Þ
				1783157.13	-49570.46	18.68	2.14	d
	719	2359 10.69	411712.19	1778170.38	-13380.76	17.70	1.38	a
87	720	010 12.32	403610.25	1788248.63	-14557.84			
	720	1 0 12.91				17.71	1.39	a
		1 0 12.91	392292.81	1800961.00	-13709.03	17.49	1.22	d
	720	217 53.94	404272.97	1786547.63	-10732.24	17.00	0.84	
87	720	319 38.27	407910.75	1792036.88	20/32.24			þ
	720				-8943.12	17.25	1.04	C
		615 2.14	402526.59	1787802.13	-7292.84	17.02	0.86	b
87	720	1046 33.46	406170.59	1783795.63	-18706.64	17.30		
87	720	15 0 19.89	410435.63				1.07	d
				1780648.38	-12890.78	17.53	1.25	a
	720	16 1 23.82	407465.19	1777440.25	-13335.82	18.06	1.66	а
87	720	1615 30.18	413169.53	1782538.13	E204.30			-
	720	1724 44.50				17.58	129	a
			400646.38	1788332.25	-2557.09	17.70	1.39	a
87	720	2019 43.98	408459.59	1781532.50	-11572.20	17.95	1.58	
87	720	2026 46.83	407250.97					С
	720	2020 10.05		1777773.88	-12840.31	18.00	1.62	a
		2226 13.01	408201.75	1781237.13	-13386.61	17.93	1.56	a
87	721	2 2 23.02	397722.53	1791009.63	-13004.06			
87	721	244 24.85				17.47	1.21	C
		277 24.03	397858.34	1791100.38	-12804.73	17.88	1.53	C
	721	622 31.03	409630.19	1780546.75	-11805.34	17.22	1.02	
87	721	1027 43.25	408117.09	1782960.25				a
87		1042 12 60			-8572.05	17.17	0.98	C
		1043 13.68	409123.31	1778592.50	-16093.22	18.01	1.62	þ
87	721	1141 4.02	408288.34	1786456.88	-10684.50			
87	721	1814 29.69				18.20	1.77	C
			405908.13	1784295.63	-5154.77	17.21	1.01	С
	721	20 4 3.19	408286.72	1781069.38	-8148.09	18.25	1.81	
87	721	2154 48.13	410459.25					р
87				1783748.38	-8622.25	17.33	1.10	a
		2348 41.94	410744.69	1782300.38	-10552.25	17.42	1.17	
87	722	. 0 3 59.66	410784.06	1783335.25				þ
87					-16359.76	17.58	1.30	a
		1 2 3.87	409064.59	1780411.50	-12257.07	17.80	1.46	a
	722	440 16.34	404254.59	1782393.75				
87 '	722	451 10.11	402616 01		-6667.91	17.27	1.06	þ
		404 TO 11	403615.81	1786811.50	-8467.70	17.15	0.96	b '
87 '		452 39.04	403518.72	1786338.13	-9297.21			
87 '	722	650 23.95				17.59	1.30	Þ
87		050 23.33	407959.28	1780835.25	-12504.09	17.91	1.55	a
		859 50.93	408592.81	1781228.75	-12041.83	17.47	1.21	
87 .	/22	938 45.89	410584.56	1779233.88				þ
				2119233.00	-12145.61	17.52	1.25	a

07	722	11 3 8.33	407010 24	1702040 20	7702 60	17 00	0 05	
	722		407018.34	1783849.38	-7703.69	17.00	0.85	þ
	722	1239 4.82	406835.59	1781455.00	-16525.44	17.84	1.49	a
87	722	1310 2.78	404670.94	1778343.75	-12111.37	17.22	1.02	þ
87	722	1830 51.45	404486.88	1787731.63	-3353.23	16.82	0.71	b
	722	19 5 40.61	398452.50	1795741.25	-20221.75			
						18.11	1.70	С
87	722	1941 27.77	411251.56	1780277.13	-13462.97	17.74	1.42	a
87	722	20 3 8.95	410438.28	1784979.25	-13458.55	18.05	1.66	а
87	723	034 37.75	404253.97	1784913.00	-16238.42	17.23	1.02	a
87	723	343 17.87	406430.75	1783077.13	-13475.02	16.91	0.78	
								a
87	723	6 4 44.35	408109.56	1786153.75	-6922.41	17.11	0.93	þ
87		6 6 43.42	405038.72	1786831.00	-5116.47	16.98	0.83	Þ
87	723	648 32.98	408569.19	1780746.75	-11435.74	17.51	1.24	C
87	723	7 0 28.90	408347.41	1782135.25	-12836.23	17.98	1.60	
87	723	817 19.13						C
			409100.34	1781979.25	-9421.16	17.15	0.96	C
87	723	834 28.98	398956.78	1787475.38	-10673.14	17.14	0.96	C
87	723	933 54.03	403832.03	1785855.63	-9533.85	17.85	1.50	Ъ
87	723	1042 5.81	410001.25	1780929.75	-13427.68	17.50	1.23	a
87	723	1354 26.80	405149.94					
				1777245.50	-13221.17	18.14	1.73	a
87	723	1724 49.46	405793.31	1787016.00	-4593.15	16.83	0.71	С
87	723	18 5 34.00	409143.00	1781626.63	-10846.18	17.71	1.39	С
87	723	1847 12.74	410413.63	1778090.75	-13459.85	17.90	1.54	
87	723	2011 26.73						a
			409234.19	1779851.63	-16898.18	18.12	1.71	a
87	723	2031 29.60	413214.81	1786584.63	-16188.82	17.78	1.45	8
87	723	2135 40.60	405010.81	1785503.38	-3526.22	16.75	0.66	b
87	723	2148 35.91	404633.88	1791351.88	-13342.35	17.71	1.40	a
87	723	2253 43.01	405309.06	1788474.75	-12454.95	17.36		
87	723	2335 2.98					1.13	C
			398760.91	1791275.75	-13012.97	17.82	1.48	Þ
87	723	2344 57.91	408793.59	1783724.13	-17020.36	18.02	1.63	a
87	724	1 0 16.84	404870.41	1790852.63	-4358.92	16.50	0.46	b
87	724	144 33.51	404535.44	1789825.00	-1182.98	16.26	0.27	c
87	724	258 8.83	408610.19	1778902.88				
87	724				-12889.72	17.80	1.46	a
		456 53.83	410497.97	1776981.38	-12610.68	18.09	1.69	a
87	724	457 43.81	410122.63	1779932.13	-13145.87	17.96	1.58	Þ
87	724	858 54.28	404978.69	1786264.63	-17089.88	17.65	1.35	d
87	724	925 21.89	413219.72	1790834.88	-46555.08	18.54	2.03	b
87	724	946 8.06	407583.31	1794500.13				
					-16213.33	17.83	1.49	a
87	724	1243 56,29	407303.13	1785189.38	-14355.40	17.93	1.56	Ъ
87	724	15 5 2.80	407930.75	1788074.13	-6067.71	18.14	1.72	C
87	724	1739 26.17	403626.00	1785736.38	-8577.48	18.08	1.68	С
87	724	1825 1.39	405886.78	1782009.25	-14734.70	17.50	1.23	
87	724	2254 58.19	399250.72					a
				1790529.13	-7747.89	17.48	1.22	Þ
	724	23 8 57.46	405657.81	1785224.00	-5147.22	16.78	0.68	Þ
87	724	2342 2.84	409439.25	1784162.25	-13262.77	17.41	1.17	С
87	725	120 29.67	410967.44	1777942.88	-13476.76			-
	725	146 55.56	411455.97	1776179.00	-13370.30			a
	725	225 17.85				17.22	1.02	a
			405928.47	1787467.75	-4246.32	17.44	1.18	Ъ
	725	240 7.10	406722.09	1781242.50	-11140.34	17.97	1.59	a
87	725	247 45.91	408788.69	1783141.50	-13341.76	17.35	1.11	С
87	725	835 38.95	408141.38	1787042.25	-11299.00	17.25	1.03	c
	725	1122 5.87	408423.84	1780384.50				
					-12916.54	17.94	1.57	a
	725	1311 39.45	408766.69	1777704.88	-20705.19	17.73	1.41	b
	725	1338 33.88	408862.50	1780983.63	-12866.60	17.24	1.03	a
87	725	14 1 11.56	395960.41	1791739.75	-18299.70	17.58	1.29	c
	725	1425 12.97	408421.56	1786756.25				
					-10847.38	17.22	1.02	C
	725	15 4 24.82	409521.94	1779601.13	-12991.71	18.08	1.67	a
	725	1611 27.62	405503.28	1784891.00	-16517.92	17.55	1.27	a
87	725	1738 50.96	398523.03	1791717.38	-10653.25	17.67	1.36	b
	725	1814 7.87	408537.03					
				1783335.25	-13228.23	16.68	0.60	a
	725	2030 45.96	406416.00	1780909.50	-12468.40	18.39	1.92	a
	725	2135 7.77	411114.41	1777774.88	-13470.98	17.69	1.37	a
87	725	22 6 6.72	399557.47	1791252.00	-13424.36	17.08	0.90	
	726	245 44.88						a
			405393.69	1779473.75	-12432.23	18.44	1.95	a
	726	528 29.15	407970.09	1782721.50	-9540.60	17.31	1.08	С
	726	550 45.49	405427.47	1787373.63	-4696.06	16.56	0.51	С
87	726	1530 6.99	396818.00	1792380.75	-10628.30	17.17	0.98	a
	726	1542 20.41	411594.41	1776093.63				
	- •	~~.11	711077.41	T110032.03	-18514.58	18.30	1.85	C

87	726	16 5 22.03	406807.06	1779034.25	-9926.54	17.61	1.32	
07	726	18 6 23.12						a
			407059.69	1785742.88	-13150.35	17.49	1.22	a
87	726	19 5 24.70	404753.63	1789585.50	825.85	16.05	0.12	h
87								b
_		2252 32.94	408361.19	1780655.63	-12449.63	17.30	1.08	a
87	726	2322 53.92	407080.03	1782206.13	-13309.25	17.56		
_							1.28	þ
87	726	2352 2.30	390130.44	1785363.63	-37058.05	18.05	1.65	a
87	727	017 6.84	397560.16	1790993.38	-12735.42			
				1/30333.38		17.85	1.50	a
87	727	110 46.85	409277.84	1782868.75	-12793.34	17.41	1.17	a
87	727	144 40.68						4
			410077.72	1778562.63	-16083.02	17.81	1.47	a
87	727	2 8 13.23	392817.41	1788195.25	-25766.79	17.74	1.41	
87					23.00.73			d
-	-	1250 3.43	404674.53	1785710.25	-4998.50	17.06	0.89	Þ
87	727	1257 28.35	406806.09	1786266.13	-6384.11	16.94	0.80	
87	727							Ъ
		1441 23.84	411524.19	1780003.63	-11480.68	18.17	1.75	a
87	727	2218 33.98	405820.88	1779265.50	-9271.86			
_						17.37	1.13	C
87	727	23 2 27.51	398724.16	1795531.75	-5257.76	17.16	0.97	a
87	728	010 16.35	407709.63	1782467.38				
				1/0240/.30	-6722.17	17.23	1.02	C
87	728	026 14.89	408909.72	1782805.00	-13263.44	17.70	1.38	a
87	728	159 43.73						
			410176.44	1776278.88	-13132.40	18.69	2.14	a
87	728	220 51.83	406435.69	1779400.25	-13462.40	17.10	0.92	a
87	728	738 46.39	407402.88					
			40/402.88	1786535.00	-5900.60	16.97	0.82	Þ
87	728	1214 24.92	407267.34	1781018.13	-13006.25	18.16	1.74	
87	728							a
-			408760.13	1789113.50	-28241.51	18.05	1.66	d
87	728	1538 4.98	401319.28	1784241.75	-10586.51	18.13		
87					-10300.31		1.71	Ç
	728	1645 40.81	400715.94	1796992.50	-2991.52	16.86	0.73	b
87	728	2021 15.58	403521.00	1786949.50	-2092.89			
						16.86	0.74	р
87	729	129 43.69	405376.97	1780827.50	-17900.85	17.64	1.33	C
87	729	459 34.90	408242.75	1781530.88	-12918.62			
						17.98	1.60	a
87	729	538 58.90	409527.50	1780043.25	-11849.27	17.54	1.27	b
87	729	624 53.75	407343.16					
				1786639.13	-4621.95	17.81	1.47	р
87	729	19 4 31.59	402168.66	1788946.50	-3392.09	17.77	1.44	Ъ
87	730	217 45.97	402293.34		5070.50			
				1788919.88	5970.58	16.10	0.15	a
87	730	532 57.89	406989.50	1780135.63	-12613.03	18.01	1.62	a
87	730	758 51.86	408012.75					4
				1783885.75	-12942.37	17.29	1.07	a
87	730	944 8.18	408194.84	1782594.25	-9107.01	17.44	1.19	
87	730	13 2 25.77						С
			411291.25	1781220.13	-13304.50	17.45	1.19	a
87	730	1327 36.77	406329.06	1792916.63	-13833.95	17.71		
87	730	1412 50.56					1.40	d
			406978.97	1787441.25	-6881.90	17.52	1.25	C
87	730	1514 17.88	408939.59	1781554.50	-13054.15			
87	730					18.13	1.71	Þ
		1535 42.24	413002.19	1786274.50	-25363.17	17.57	1.29	C
87	730	1739 50.30	407483.25	1792345.63	-15066.10			
87	731	3 5 37.28		1732343.03		17.55	1.27	a
		3 3 31.28	406875.63	1787818.50	-7180.43	17.31	1 00	С
87							1.09	•
	731						1.09	
97	731	427 51.72	411643.94	1777322.00	-12636.26	18.23	1.80	a
	731	427 51.72 543 40.07		1777322.00	-12636.26	18.23	1.80	
	731	427 51.72 543 40.07	411643.94 399894.09	1777322.00 1791515.25	-12636.26 -9160.71	18.23 16.88	1.80 0.76	b
87	731 731	427 51.72 543 40.07 616 40.12	411643.94 399894.09 404133.53	1777322.00 1791515.25 1783471.88	-12636.26 -9160.71 -9043.71	18.23 16.88	1.80 0.76	
87 87	731 731 731	427 51.72 543 40.07 616 40.12 617 40.17	411643.94 399894.09	1777322.00 1791515.25 1783471.88	-12636.26 -9160.71 -9043.71	18.23 16.88 17.98	1.80 0.76 1.60	þ
87 87	731 731 731	427 51.72 543 40.07 616 40.12 617 40.17	411643.94 399894.09 404133.53 410739.13	1777322.00 1791515.25 1783471.88 1782879.38	-12636.26 -9160.71 -9043.71 -13282.28	18.23 16.88 17.98 17.69	1.80 0.76 1.60 1.38	b b a
87 87 87	731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04	411643.94 399894.09 404133.53 410739.13 406032.16	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88	18.23 16.88 17.98 17.69 17.65	1.80 0.76 1.60	þ
87 87 87 87	731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79	411643.94 399894.09 404133.53 410739.13	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88	18.23 16.88 17.98 17.69 17.65	1.80 0.76 1.60 1.38 1.35	b b a b
87 87 87 87	731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98	18.23 16.88 17.98 17.69 17.65 16.26	1.80 0.76 1.60 1.38 1.35 0.28	4494
87 87 87 87	731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48	18.23 16.88 17.98 17.69 17.65 16.26 17.99	1.80 0.76 1.60 1.38 1.35 0.28 1.61	b b a b
87 87 87 87 87	731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48	18.23 16.88 17.98 17.69 17.65 16.26 17.99	1.80 0.76 1.60 1.38 1.35 0.28 1.61	b b a b b a
87 87 87 87 87	731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68	b b a b b a a
87 87 87 87 87 87	731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32	1.80 0.76 1.60 1.38 1.35 0.28 1.61	b b a b b a
87 87 87 87 87 87	731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09	b b a b b a a a
87 87 87 87 87 87	731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09	b b a b b a a a a
87 87 87 87 87 87 87 87	731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09	b b a b b a a a a
87 87 87 87 87 87 87 87	731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63	b b a b b a a a a b
87 87 87 87 87 87 87 87 87	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72	b b a b b a a a a b b
87 87 87 87 87 87 87 87 87	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72	b b a b b a a a a b b
87 87 87 87 87 87 87 87 87	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42	b b a b b a a a a b b a
87 87 87 87 87 87 87 87 87 87	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62	b
87 87 87 87 87 87 87 87 87 87	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62	b
87 87 87 87 87 87 87 87 87 87	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.26	b b a b b a a a a b b a a b
87 87 87 87 87 87 87 87 87 87 87	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04 1812 28.65	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59 411341.16	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00 1777184.25	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16 -13416.26	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53 18.02	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.62	b
87 87 87 87 87 87 87 87 87 87 87 87	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04 1812 28.65 1951 55.11	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59 411341.16 403955.72	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16 -13416.26	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53 18.02	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.62	bb
87 87 87 87 87 87 87 87 87 87 87	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04 1812 28.65 1951 55.11	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59 411341.16 403955.72	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00 1777184.25 1785818.13	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16 -13416.26 -8207.76	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53 18.02 16.99	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.63 0.84	bb
87 87 87 87 87 87 87 87 87 87 87 87	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04 1812 28.65 1951 55.11 2015 5.61	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59 411341.16 403955.72 402073.84	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00 1777184.25 1785818.13 1791253.00	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16 -13416.26 -8207.76 -16702.81	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53 18.02	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.62	bb
87 87 87 87 87 87 87 87 87 87 87 87 87	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04 1812 28.65 1951 55.11 2015 5.61 21 9 42.59	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59 411341.16 403955.72	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00 1777184.25 1785818.13 1791253.00	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16 -13416.26 -8207.76 -16702.81	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53 18.02 16.99 18.06	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.63 0.84 1.66	b b a b b a a a b b a a b a b a
87 87 87 87 87 87 87 87 87 87 87 87 87	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04 1812 28.65 1951 55.11 2015 5.61 21 9 42.59	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59 411341.16 403955.72 402073.84 410235.50	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00 1777184.25 1785818.13 1791253.00 1776014.63	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16 -13416.26 -8207.76 -16702.81 -14332.05	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53 18.02 16.99 18.06 17.54	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.63 0.84 1.66 1.26	b b a b b a a a a b b a a b a b a a
87 87 87 87 87 87 87 87 87 87 87 87 87 8	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04 1812 28.65 1951 55.11 2015 5.61 21 9 42.59 22 8 44.70	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59 411341.16 403955.72 402073.84 410235.50 412109.50	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00 1777184.25 1785818.13 1791253.00 1776014.63 1776310.75	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16 -13416.26 -8207.76 -16702.81	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53 18.02 16.99 18.06	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.63 0.84 1.66	b b a b b a a a a b b a a b a b a a
87 87 87 87 87 87 87 87 87 87 87 87 87 8	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04 1812 28.65 1951 55.11 2015 5.61 21 9 42.59 22 8 44.70 2229 5.16	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59 411341.16 403955.72 402073.84 410235.50 412109.50	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00 1777184.25 1785818.13 1791253.00 1776014.63 1776310.75	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16 -13416.26 -8207.76 -16702.81 -14332.05 -11988.67	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53 18.02 16.99 18.06 17.54 17.65	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.63 0.84 1.66 1.26 1.34	b b a b b a a a b b a a b a b a a a
87 87 87 87 87 87 87 87 87 87 87 87 87 8	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04 1812 28.65 1951 55.11 2015 5.61 21 9 42.59 22 8 44.70 2229 5.16	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59 411341.16 403955.72 402073.84 410235.50 412109.50 406336.59	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00 1777184.25 1785818.13 1791253.00 1776014.63 1776310.75 1781040.25	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16 -13416.26 -8207.76 -16702.81 -14332.05 -11988.67 -8643.94	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53 18.02 16.99 18.06 17.54 17.65 17.19	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.63 0.84 1.66 1.26 1.34 0.99	b b a b b a a a a b b a a b a b a a
87 87 87 87 87 87 87 87 87 87 87 87 87 8	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04 1812 28.65 1951 55.11 2015 5.61 21 9 42.59 22 8 44.70 2229 5.16 2245 50.91	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59 411341.16 403955.72 402073.84 410235.50 412109.50 406336.59 408807.72	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00 1777184.25 1785818.13 1791253.00 1776014.63 1776310.75 1781040.25 178704.88	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16 -13416.26 -8207.76 -16702.81 -14332.05 -11988.67 -8643.94 -11893.53	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53 18.02 16.99 18.06 17.54 17.65 17.19	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.63 0.84 1.66 1.26 1.34 0.99	b b a b b a a a b b a a b a b a a b
87 87 87 87 87 87 87 87 87 87 87 87 87 8	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04 1812 28.65 1951 55.11 2015 5.61 21 9 42.59 22 8 44.70 2229 5.16 2245 50.91 2331 37.70	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59 411341.16 403955.72 402073.84 410235.50 412109.50 406336.59 408807.72	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00 1777184.25 1785818.13 1791253.00 1776014.63 1776310.75 1781040.25 178704.88	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16 -13416.26 -8207.76 -16702.81 -14332.05 -11988.67 -8643.94 -11893.53	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53 18.02 16.99 18.06 17.54 17.65 17.19 17.20	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.63 0.84 1.66 1.26 1.34 0.99	b b a b b a a a b b a a b a b a a a b a
87 87 87 87 87 87 87 87 87 87 87 87 87 8	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04 1812 28.65 1951 55.11 2015 5.61 21 9 42.59 22 8 44.70 2229 5.16 2245 50.91 2331 37.70	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59 411341.16 403955.72 402073.84 410235.50 412109.50 406336.59 408807.72 401494.13	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00 1777184.25 1785818.13 1791253.00 1776014.63 1776310.75 1781040.25 1778704.88 1790004.25	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16 -13416.26 -8207.76 -16702.81 -14332.05 -11988.67 -8643.94 -11893.53 -1682.38	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53 18.02 16.99 18.06 17.54 17.65 17.19 17.20 17.02	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.63 0.84 1.66 1.26 1.34 0.99 1.00 0.86	b b a b b a a a b b a a b a b a a b
87 87 87 87 87 87 87 87 87 87 87 87 87 8	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04 1812 28.65 1951 55.11 2015 5.61 21 9 42.59 22 8 44.70 2229 5.16 2245 50.91 2331 37.70 2357 21.59	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59 411341.16 403955.72 402073.84 410235.50 412109.50 406336.59 408807.72 401494.13 397436.78	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00 1777184.25 1785818.13 1791253.00 1776014.63 1776310.75 1781040.25 1778704.88 1790004.25 1786009.50	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16 -13416.26 -8207.76 -16702.81 -14332.05 -11988.67 -8643.94 -11893.53	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53 18.02 16.99 18.06 17.54 17.65 17.19 17.20 17.02	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.63 0.84 1.66 1.26 1.34 0.99	b b a b b a a a b b a a b a a a b a a
87 87 87 87 87 87 87 87 87 87 87 87 87 8	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04 1812 28.65 1951 55.11 2015 5.61 21 9 42.59 22 8 44.70 2229 5.16 2245 50.91 2331 37.70	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59 411341.16 403955.72 402073.84 410235.50 412109.50 406336.59 408807.72 401494.13	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00 1777184.25 1785818.13 1791253.00 1776014.63 1776310.75 1781040.25 1778704.88 1790004.25 1786009.50	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16 -13416.26 -8207.76 -16702.81 -14332.05 -11988.67 -8643.94 -11893.53 -1682.38 -17091.94	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53 18.02 17.54 17.65 17.19 17.20 17.68	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.63 0.84 1.66 1.34 0.99 1.00 0.86 1.37	b b a b b a a a b b a a b a a a b a a a
87 87 87 87 87 87 87 87 87 87 87 87 87 8	731 731 731 731 731 731 731 731 731 731	427 51.72 543 40.07 616 40.12 617 40.17 619 30.04 621 37.79 632 53.78 634 4.21 634 37.99 735 55.56 828 18.13 1120 19.99 1156 26.77 1246 22.84 15 1 9.04 1812 28.65 1951 55.11 2015 5.61 21 9 42.59 22 8 44.70 2229 5.16 2245 50.91 2331 37.70 2357 21.59	411643.94 399894.09 404133.53 410739.13 406032.16 405366.13 405267.72 403548.56 407858.91 400644.41 406726.38 407513.44 409217.47 408649.56 412271.59 411341.16 403955.72 402073.84 410235.50 412109.50 406336.59 408807.72 401494.13 397436.78	1777322.00 1791515.25 1783471.88 1782879.38 1790082.38 1787287.38 1778024.63 1785712.63 1781474.88 1790918.00 1785513.13 1780388.13 1778703.00 1776801.38 1779296.00 1777184.25 1785818.13 1791253.00 1776014.63 1776310.75 1781040.25 1778704.88 1790004.25	-12636.26 -9160.71 -9043.71 -13282.28 -3335.88 -1415.98 -13310.48 -8310.72 -12737.53 -16556.24 -10074.74 -10602.28 -13372.26 -12189.09 -10887.16 -13416.26 -8207.76 -16702.81 -14332.05 -11988.67 -8643.94 -11893.53 -1682.38	18.23 16.88 17.98 17.69 17.65 16.26 17.99 16.78 17.32 17.25 16.72 16.83 17.75 18.00 17.53 18.02 16.99 18.06 17.54 17.65 17.19 17.20 17.02	1.80 0.76 1.60 1.38 1.35 0.28 1.61 0.68 1.09 1.04 0.63 0.72 1.42 1.62 1.63 0.84 1.66 1.26 1.34 0.99 1.00 0.86	b b a b b a a a b b a a b a a a b a a

87	0	•	057	20 60	408222.06	1776024 62	12060 01	. 17 50	1 00	
				20.69		1776034.63	-12968.91	17.56	1.28	ь
87	8	1	355	51.94	408025.56	1786850.00	-11404.30	17.48	1.22	С
87	8	1	556	52.00	406252.63	1783505.25	-13332.36	17.83	1.48	a
		ī		51.88	407401.53	1781663.50	-13121.39	17.37		
									1.13	. a
		1	834	3.72	411430.72	1779224.13	-13283.55	17.93	1.56	a
87	8	1	929	1.84	398413.81	1792994.63	-12010.39	17.25	1.04	a
		ī		44.84	409045.53	1779261.13		17.76		
							-13058.84		1.43	a
87	8	1	1217	13.82	405696.50	1780016.50	-13050.98	17.52	1.25	Ъ
87 1	8	1	1245	32.72	410534.38	1778100.75	-13162.14	17.18	0.98	a
	8			6.42						
			1649		408054.13	1781992.00	-6451.46	17.01	0.85	C
	8		1712	14.45	391370.56	1785560.38	-34368.38	18.14	1.72	a
87 (8	1	1733	59.78	397891.81	1789956.38	-13003.85	18.03	1.64	a
		1	1950	7.50	405418.31	1778745.75	-17528.53	17.47	1.21	
										Þ
	8			51.96	407430.75	1781819.63	-12351.68	17.12	0.94	a
87 8	8	1	2215	8.69	410455.31	1777560.00	-14540.04	17.65	1.35	a
87 1	8	1		27.92	408018.66	1781942.25	-12615.05	17.45	1.19	
										a
		1	2312	9.45	400875.72	1787912.13	-4234.87	17.39	1.14	a
		1	2340	38.92	407413.03	1781706.25	-12593.80	17.56	1.27	Þ
87 1	8	2	429	52.12	399375.41	1790422.50	-8812.91	17.05	0.88	Ъ
		2		15.19	404040.69	1787045.88				
							-7401.42	16.94	0.80	. b
		2	819	0.76	408452.72	1779394.13	-12808.87	17.21	1.01	a
87	8	2	911	20.88	407177.16	1779750.88	-12762.71	17.78	1.45	a
		2	915	5.12	408655.78	1781074.00	-9638.87			
								17.47	1.21	C
		2		51.26	394512.59	1791253.50	- 23565.06	17.98	1.60	d
87	8	2	1141	2.87	406292.97	1780118.38	-13391.30	17.15	0.96	Ъ
87	8	2	3147	26.98	404049.56	1790998.25	-11281.17	17.25	1.04	
										þ
		2		59.32	407582.63	1783740.25	-7633.29	16.98	0.83	C
87	8	2	1321	41.94	407705.69	1781573.50	-12487.56	18.09	1.68	a
87	8	2	1342	18.88	411439.88	1776941.25	-12103.52	17.23	1.03	a
		2								
				47.91	407628.25	1781286.25	-12814.37	17.75	1.43	a
		2	1417	48.89	408106.94	1781179.88	-12958.85	17.87	1.51	Ъ
87 1	8	2	1422	25.91	407829.03	1782140.00	-12819.42	17.38	1.14	a
		2		41.11	406534.09	1783343.50				
							-10260.21	17.06	0.89	C
	8	2		48.57	395392.19	1792536.75	3748.97	16.32	0.33	d
87	8	3	647	26.91	408004.88	1786236.25	-11770.66	17.56	1.28	C
87	8	3		24.24	407157.13	1783728.38	-8454.00	17.33	1.10	b
		3		30.74	408997.34	1778502.63	-16132.67	18.96	2.36	а
87 (8	4	4 1	52.84	404722.44	1778671.38	-12844.20	18.05	1.65	a
87 (8	4	93	8.89	408861.50	1777054.50	-10936.71	18.33	1.87	b
	8			12.37						
					401106.66	1788638.75	-6470.54	17.76	1.43	þ
	8		2053	12.11	399856.38	1795569.00	-12875.78	17.52	1.24	8
87 1	В	5	446	16.12	408984.19	1786990.13	-9131.48	17.15	0.97	C
	8			38.52	404500.34					
						1783750.63	-4712.17	17.15	0.96	a
		5		2.92	411301.44	1783437.63	-11563.47	17.23	1.02	C
87 8	8	5	10 2	53.84	410040.97	1778441.88	-12627.97	18.54	2.03	a
87 8				51.82	409869.69	1784026.50				
07	~	-					-16553.80	17.53	1.25	а
87 8				44.09	409290.66	1781697.13	-9703.70	17.18	0.98	С
87 8	В	5	1214	23.67	405589.88	1795692.13	-16390.68	17.18	0.99	a
87 8	R	5	1351	20.80	406171.25	1787165.38	-13303.55	16.99		
87 8									0.84	a
				19.17	397516.50	1792687.50	-13290.71	17.95	1.58	a
87 8			22 2	34.73	401538.09	1789540.63	-2461.20	17.34	. 1.10	a
87 8	3	5	2333	23.66	397909.22	1786389.88	-13067.69	17.71		
87 8				36.77					1.39	a
					394093.00	1783008.25	-12562.44	17.27	1.05	Þ
87. 8			753	7.76	409976.97	1779034.88	-13459.34	18.39	1.91	a
87 8	3	6	754	33.24	407268.03	1780086.88	-7964.52	17.51	1.24	
87 8			755	15.89						a
					409244.03	1778363.63	-12138.02	17.26	1.04	C
87 8				20.20	405944.22	1784609.25	-8034.02	16.79	0.68	С
87 8	3 (6		40.70	406684.38	1776321.38	-12276.24	18.27	1.82	
87 8			.1529							a
				9.75	400082.41	1789879.50	-13104.19	18.59	2.07	a
87 8			1649		407939.28	1784813.88	-9875.11	17.18	0.98	C
87 8	} (6	1811	23.56	412069.47	1777305.00	-14710.91	17.80	1.46	
87 8		6	1941							a
			4774 2332		409459.59	1782203.13	-10938.41	18.07	1.67	þ
87 8			2110	0.76	407031.47	1784812.88	-2214.46	16.53	0.49	C
87 8		6	2354	17.05	408487.50	1784718.38	-13470.07	18.13	1.71	a
87 8	,	7		40.72	409435.66					
87 8			240			1777391.88	-13392.61	18.50	2.00	a
- · · ·	-	•	240	2.51	403277.25	1785713.63	-3097.50	16.86	0.74	þ

07	8 7	426 2 04	400360 30	1770000 75	10601 05			
	-	426 2.94	409160.72	1778290.75	-10621.87	18.27	1.82	Ъ
87	8 7	456 3.82	406045.25	1777681.25	-12682.01	17.63	1.33	a
87	8 7	1239 45.65	411779.13	1778009.63	-17804.34	18.13	1.71	
87								a
		1334 32.85	408478.97	1780158.25	-13089.17	17.96	1.59	a
87	87	1351 18.48	407700.09	1786378.75	-7376.44	17.28	1.06	C
87	8 7	1459 28.07	409137.09	1783635.50	-10317.82	17.50	1.23	b
87	8 8	7 6 6.81	409091.16					
				1779656.75	-13255.86	17.87	1.52	a
87	8 8	823 31.46	412713.50	1776679.63	-16323.54	17.69	1.37	a
87	88	1614 14.92	401277.28	1786301.75	-16572.14	17.22	1.01	
87		1637 40.45	404251.31	1785357.13				ā
					-4280.17	16.58	0.52	Þ
87		21 7 52.86	409429.09	1780340.88	-12782.17	17.76	1.43	a
87	88	2132 47.79	411655.44	1777066.63	-12183.16	17.43	1.17	a
87		2141 15.58	407440.91	1785704.00	-3580.42			
						16.52	0.47	C
87		2310 29.75	409341.47	1776686.25	-13466.80	17.87	1.52	а
87	89	046 19.79	407420.91	1785632.88	-4485.44	17.41	1.16	a
87	8 9	221 51.39	406309.03	1788384.50	-6082.71	16.87	0.75	
								C
87		640 56.08	407295.25	1779219.50	-9541.06	17.65	1.34	C
87	8 9	750 2.78	398052.91	1796224.25	-17123.55	17.78	1.45	С
87	89	1318 22.89	406996.69	1780064.75	-13046.85	18.24		
							1.80	þ
87		1529 59.33	407574.78	1784221.13	-7298.66	16.97	0.82	þ
87	89	1843 6.78	408366.09	1776041.38	-12268.79	17.84	1.49	a
87	8 9	2217 47.29	405255.25	1785454.13	-8915.35	17.15	0.96	b
87		1 4 56.79	409236.19					
				1778311.38	-13212.80	18.19	1.76	
87		114 26.81	408244.41	1776439.25	-12181.53	18.11	1.70	a
87	810	216 52.94	404511.81	1792577.63	-12298.69	17.18	0.98	C
87	810	828 19.90	409286.69	1780744.75	-12673.75			
						17.84	1.49	8
87		927 6.87	391997.53	1786101.13	-10384.91	17.84	1.49	C
87	810	949 48.79	409754.53	1779438.75	-13075.44	18.10	1.69	a
87	810	1036 4.36	403084.34	1786430.50	-6397.98	16.83	0.72	
87								C
			406560.00	1781700.13	-16473.88	17.50	1.23	a
87		17 1 32.85	408648.91	1780654.63	-13218.27	18.45	1.96	a
87	810	1940 15.95	398595.56	1791765.63	-11034.16	17.64	1.34	C
87		1945 37.80	409260.13					
				1779480.00	-13083.19	18.41	1.93	a
87		2134 48.67	401934.09	1789892.25	-1988.87	17.12	0.94	a
87	810	2340 3.16	404119.44	1786179.38	23033.73	15.27	-0.48	a
87	811	213 0.96	407206.00	1778350.25				
					-10879.46	17.44	1.18	C
87		442 22.75	406658.78	1776384.00	-13150.61	18.40	1.92	a
87	811	510 22.92	409281.47	1783157.88	-13417.18	18.29	1.84	a
87	811	527 6.86	406630.22	1778113.50	-12959.08	18.04		
87	811	659 16.64	410263.72				1.65	a
				1782498.63	-16366.02	17.72	1.40	C
87	811	939 49.85	404143.72	1792482.50	10883.53	16.46	0.43	a
87	811	19 0 0.80	408642.03	1781243.50	-13343.33	16.94	0.80	b
87	811	2051 48.87	402837.63	1790752.00				
	811				-2481.70	16.98	0.83	a
		2347 53.03	407607.91	1782132.88	-10791.97	17.78	1.45	8
	812	011 35.97	410387.41	1780633.63	-12795.10	17.42	1.17	a
87	812	055 45.95	408444.50	1787205.63	-10949.71			
	812	1 3 48.81				17.61	1.31	C
			410876.56	1781635.38	-12968.75	17.61	1.31	а
	812	429 51.76	406716.84	1776964.38	-13479.38	17.77	1.44	a
87	812	1748 26.79	406912.38	1785739.25	-2592.22	17.32	1.09	
	812	19 5 48.96	398155.59					þ
				1782295.00	-521.85	16.81	0.70	Þ
	812	2052 53.48	409638.72	1784696.50	-3910.99	17.07	0.90	ь
87	812	2057 45.99	408531.78	1786098.50	-10505.22	17.96	1.58	þ
87	812	2121 40.51	396619.84					
				1800439.75	-12510.93	17.73	1.41	þ
	812	23 6 0.72	407590.53	1786115.50	-4456.57	17.17	0.97	b
87	812	2334 52.05	408677.13	1783842.50	-13481.66	18.29	1.84	a
87	813	326 27.88	408137.75	1782356.25				
	813				-13315.19	17.66	1.35	Þ
		641 35.00	410749.94	1786234.63	-13327.92	17.56	1.28	a
	813	7 7 20.85	410903.81	1777571.88	-12574.37	17.53	1.26	a
87	813	.10 7 12.69	411666.91	1776947.25				
	813				-13175.84	17.72	1.40	a
		1320 49.79	408222.75	1776361.38	-12794.64	17.48	1.21	a
	813	1323 12.99	403348.44	1782944.63	-12350.78	18.14	1.72	a
87	813	1819 36.49	405250.66	1784096.38	-5510.35	17.31		
	813	1859 12.95					1.09	b
		1007 12.90	408324.13	1781960.63	-11871.56	17.49	1.22	þ
	813	1938 51.28	407668.63	1784027.50	-7869.95	17.03	0.87	b
	D 4 7	2150 35.38						
	813	~~~~	402362.03	1/BHG37 MM	-4155 42	1 6 -11	$\cap EA$	
	814	011 40.65	402562.03 401401.94	1788432.88 1794785.63	-4155.48 -5379.64	16.60 17.07	0.54 0.90	р

07	814	025 51 77	400005 50	1770006 00	13336 03	10 10		
		025 51.77	409085.59	1778096.88	-13326.92	18.13	1.71	a
	814	042 19.94	404394.69	1780996.63	-13329.99	17.16	0.97	C
87	814	153 29.17	405891.41	1783205.75	-24211.72	18.34	1.88	ъ
87	814	254 28.82	395627.75	1791831.88	-12507.11	17.28	1.06	ā
	814	528 28.61	405049.56	1786355.13	-16310.02			
						17.85	1.50	a
	814	1229 18.67	411237.78	1777582.63	-13374.82	18.27	1.82	a
87	814	19 9 14.74	408636.78	1776933.88	-13406.45	18.67	2.13	a
87	815	035 27.66	411159.06	1776701.75	-13278.51	18.38	1.90	a
87	815	128 4.89	405151.25	1780887.13	-13430.01			
						18.13	1.71	Ъ
	815	129 14.58	404768.06	1780863.25	-16813.60	17.18	0.99	2
	815	233 56.99	406778.84	1781356.88	-12430.45	17.77	1.43	C
87	815	248 12.91	408448.78	1779867.13	-12759.78	17.90	1.53	a
87	815	12 3 45.03	405770.66	1794248.63	-12954.22	17.39	1.14	
87	815							a
		1452 24.78	398081.13	1796903.63	-17251.73	18.14	1.72	a
	815	1534 59.36	411480.25	1783806.13	-11791.40	17.99	1.61	Ъ
87	815	19 8 52.04	405234.56	1792173.13	-9123.04	17.31	1.09	Þ
87	816	029 52.11	405264.13	1779562.75	-12001.25	17.18	0.99	c
	816	4 2 58.71	408651.22					
				1777111.88	-13033.58	17.30	1.08	a
	816	457 15.74	405209.31	1784970.50	-2797.17	16.48	0.45	С
87	816	13 0 21.80	409679.06	1776801.38	-11895.00	17.61	1.31	a
87	817	0 4 4.11	403966.22	1786748.25	-8034.55	17.05	0.88	b
87	817	120 52.93	406999.31	1782972.50				
					-12674.63	17.33	1.10	C
	817	616 31.91	407926.81	1781246.75	-12373.58	17.42	1.17	
	817	819 45.04	409172.84	1781456.75	-12233.19	17.27	1.05	a
87	817	941 50.19	405041.00	1781927.63	-9095.22	17.34	1.11	c
	817	946 35.84	406222.44	1780381.25				
					-13201.66	18.54	2.03	Ъ
	817	1338 9.98	410218.44	1791236.50	-7944.48	17.98	1.60	C
	817	1358 28.98	409448.13	1783841.13	-11894.08	18.09	1.69	a
87	817	1523 34.19	404500.34	1792725.50	-8309.97	16.97	0.82	b
	817	2219 15.71	409723.69	1776412.00				
					-13246.59	17.89	1.53	а
	818	0 4 47.44	392330.88	1776255.13	-54452.16	19.15	2.50	C
87	818	344 51.81	406982.59	1779116.13	-16313.03	18.17	1.75	a
87	818	1825 55.18	407763.44	1782227.00	-8455.95	18.02	1.63	Ď
	818	2332 57.71	408706.97	1776059.88				
					-13174.00	17.48	1.22	þ
	819	623 54.09	403774.63	1786069.88	-8404.82	17.03	0.87	Ъ
87	819	2055 32.16	403471.16	1788509.38	6214.77	16.88	0.75	C
87	820	213 38.76	409418.91	1777502.75	-13478.87	18.66	2.12	a
	820	222 56.94	405365.16	1788718.00				
-					-16619.30	17.26	1.04	a
	820	233 42.59	405803.47	1785917.00	-17281.88	17.37	1.13	C
	820	624 1.47	406125.31	1784240.25	-5790.50	16.92	0.78	С
87	820	2018 50.57	402358.66	1785348.13	-3427.92	17.09	0.91	b
87	820	2250 49.70	405826.13	1787371.63				
	821				-1457.31	16.57	0.52	a
		3 8 21.72	412866.06	1799397.63	1793.49	16.95	0.80	C
	821	450 50.97	410728.28	1784395.38	-13154.08	17.44	1.19	a
87	821	458 57.78	409887.44	1777109.75	-12493.39	18.20	1.77	
	821	459 25.26	396031.59					a
	821			1776972.13	-35125.10	19.51	2.77	d
		5 4 21.94	408433.03	1780741.50	-12229.92	17.34	1.11	Þ
	821	1151 58.00	404305.47	1789176.38	-16636.74	17.13	0.95	a
87	821	1249 10.91	405562.66	1789459.00	-12966.11	16.85	0.73	
87	821	1937 12.32	406002.94	1778605.38				a
	822	935 10.82			-7516.88	17.77	1.44	C
			397680.88	1788513.75	-10954.14	17.49	1.22	b
	822	1246 49.01	406978.31	1778875.63	-12035.87	17.11	0.93	d
87	822	1432 55.67	411954.31	1783201.75	-17421.91	17.67	1.36	
87	822	1644 35.76	409837.53	1778070.88				a
	822				-13180.52	16.94	0.80	а
		17 3 28.91	407493.06	1780570.38	-13036.51	17.38	1.14	ь
	822	18 2 51.52	390387.31	1797959.13	-18180.55	18.06	1.66	b
87	822	2057 14.17	399423.97	1792797.88	6653.66			
87		22 5 40.79		1701630 00		16.28	0.29	a
			408682.38	1781638.88	-13288.31	17.35	1.11	а
87		.2313 6.87	407241.78	1780294.63	-12756.35	17.62	1.32	a
87		1046 53.90	406794.59	1780283.13	-13334.89	17.44	1.18	
87	823	1128 41.77	408786.38	1779678.38				a
87		1351 41.84			-13311.43	18.53	2.02	а
		1301 41.84	409493.06	1782316.63	-13288.73	17.74	1.42	а
87		1355 29.01	403055.47	1786275.25	-9123.56	17.02	0.86	b
87		1356 48.78	402848.13	1790601.50	-13026.66	17.39	1.15	
87		1445 26.02	403821.88	1780009.88				a
87		1526 13.78			-10199.96	17.56	1.28	b
		43.78	405154.53	1782110.00	-13454.87	17.39	1.14	d

27	823	1733 13.98	410184.34	1706474 75	16670 04			
				1786474.75	-16672.34	17.41	1.16	a
	823	1750 44.03	403740.81	1781819.25	-9433.51	17.62	1.32	Ъ
87	823	2220 5.05	405153.22	1792916.00	-12513.20	17.49	1.22	
	823	2258 29.29						8.
			401787.13	1800470.13	-15509.08	18.14	1.73	•
		724 59.16	405349.41	1781395.13	-9418.35	17.46	1.20	ь
87	824	1615 11.94	404892.06	1779855.25	-11056.07	17.91		
	824						1.55	С
		2017 9.22	403865.84	1787033.38	-6628.02	16.98	0.83	Þ
87	825	032 14.92	410787.34	1783039.75	-12464,26	17.61	1.32	þ
87	825	044 29.00	402411.47	1785710.00				
					-8768.00	17.55	1.27	Þ
	825	322 35.67	405544.94	1776052.25	-12530.17	17.48	1.21	Ъ
87	825	420 17.10	408269.00	1788428.13	-9345.04	16.74	0.65	
	825	449 3.79	401737.91					С
				1782618.88	-12108.37	16.97	0.82	С
	825	651 10.13	404789.06	1794658.75	-1405.03	17.37	1.13	þ
87	825	653 34.79	403178.84	1790014.50	-13031.22	17.53		
	825	831 0.90					1.25	a
			404587.28	1778900.88	-12227.96	16.83	0.72	þ
	825	942 6.78	403736.91	1790170.25	-13480.99	17.65	1.35	a
87	825	1050 20.16	405081.38	1791623.00	-221.36	17.34		
	825	2333 0.73					1.11	С
			407836.94	1776034.75	-13319.41	17.54	1.26	a
87	826	1 7 8.54	406856.28	1788394.63	-6429.18	17.33	1.10	b
87	826	758 24.00	407350.72	1783323.88	-12704.13			
	826					18.01	1.62	a
		1221 40.05	407765.38	1782455.38	-10816.09	17.54	1.26	b
87	826	1855 55.39	405881.56	1783442.88	-7011.37	17.21	1.01	a
87	826	2051 20.61	401902.94	1790063.50				
					-2613.34	17.13	0.95	4
	826	2124 0.16	403414.38	1786030.38	-7747.57	17.05	0.88	Þ
87	826	2217 55.93	408985.19	1781470.38	-11387.61	17.60	1.31	
87	827	149 18.32	392972.28	1782856.88				С
					-11044.10	17.41	1.16	2
	827	3 6 3.93	409083.28	1785073.25	-12315.98	17.27	1.05	C
87	827	615 43.06	407189.28	1785380.75	-10920.64	17.42		
	827	1412 11.38	406859.22				1.17	C
				1782823.88	-8269.52	17.61	1.32	b
	827	1554 43.06	410333.91	1785220.25	-13468.77	17.99	1.60	a
87	827	1910 46.48	408478.31	1788995.63	-9080.31			
	827	2130 43.11			-9080.31	17.76	1.43	b
			403473.44	1786307.75	-8266.10	17.61	1.31	b
	827	22 2 30.97	403712.63	1787988.13	3096.56	16.95	0.81	b
87	828	016 48.90	406853.97	1779289.38	-12845.84			
	828	155 5.63				17.40	1.15	a
			408186.00	1791402.50	-16907.82	17.41	1.16	C
	828	1017 2.73	409015.03	1778344.63	-13399.08	18.01	1.62	a
87	828	1034 14.87	403958.34	1788702.00	-2170.71			
	828	14 2 32.80				16.78	0.68	Þ
			398110.00	1795248.25	-16020.04	18.28	1.83	a
	828	16 2 30.28	406475.06	1780825.38	-15531.77	17.89	1.53	a
87	828	1743 13.87	407511.78	1779946.13	-13466.90			
	828	2027 5.53			-13466.90	18.27	1.83	a
			399874.41	1790154.25	-3494.45	16.84	0.72	b
	829	318 5.71	405878.94	1776256.25	-13447.31	17.59	1.30	a
87	829	4 8 52.20	406114.81	1782488.50	-22764.42			
97	829	426 32.72				18.02	1.63	С
		420 32.72	409285.06	1777530.88	-13287.04	18.36	1.89	a
	829	632 49.13	404397.66	1781534.13	-9468.32	17.59	1.30	b
87	829	12 0 40.81	410268.00	1777935.13	-12566.95			
	829	1248 27.86				17.76	1.43	а
		2230 22 22	399431.19	1792936.00	-13242.51	17.05	0.88	a
	829	2219 58.78	404882.88	1779046.63	-13176.31	18.23	1.79	b
	829	2316 56.59	405726.38	1787074.50	-2986.46	16.61		
87	830	346 43.57					0.55	Þ
		340 43.57	413055.34	1778540.50	-15489.57	17.40	1.15	đ
	830	1010 51.66	396996.16	1787892.25	-12448.74	17.29	1.07	b
87	830	1025 7.41	395312.78	1784393.63				
	830	1445 36.62			-14390.51	17.51	1.24	a
			413455.28	1785646.75	-16305.99	17.52	1.25	C
	830	1722 40.23	408201.41	1782788.38	-7633.81	17.26	1.05	C
87	830	1724 34.80	409111.50	1780942.38				
87					-13195.66	18.14	1.73	a
		1732 28.85	402851.06	1783767:38	-11293.83	18.19	1.76	С
87		1734 7.26	406523.94	1782232.00	-6890.31	17.38	1.13	
87	830	18 2 50.78	411087.22					a
				1783082.38	-16058.03	17.54	1.27	a
87		1942 53.69	402961.31	1783844.50	-4844.04	17.91	1.55	b
87	830	2255 13.72	411724.00	1777506.63				
87		0 4 50 05			-13434.19	17.39	1.15	þ
		0 4 58.87	408498.97	1779485.25	-13382.55	17.11	0.93	С
87		154 5.87	408657.13	1784702.75	-13456.02	17.21		
87 (831	1052 18.10	404463.59				1.01	C
87				1780807.88	-9566.68	17.32	1.09	C
		1152 41.73	408538.34	1777831.75	-13268.64	18.05	1.66	a
87 (1233 16.01	404539.69	1780815.25	-9757.56			
87	831	1435 0.57	393851.19			17.91	1.55	Þ
	-	0.5,	J3J0J1.19	1788275.50	-12934.79	17.68	1.37	a

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8/	831	1522 44.71	407306.41	1776408.50	-13471.90	17.58	1.30	a
87	831	1928 18.96	408085.59	1781289.00	-11443.43	16.90	0.77	C
87		141 46.85	408762.75	1788533.38	130.78			
-						16.20	0.23	þ
87	9 1	455 52.66	411046.19	1777081.63	-13280.99	17.45	1.19	a
87	9 1	856 4.66	409065.91	1776869.38	-14578.09	18.35	1.88	b
87		9 4 44.21	405383.22	1782377.75	-10376.50	17.12	0.94	þ
87	9 1	1328 5.81	402004.00	1777920.25	-10586.60	17.83	1.49	d
87	9 1	1350 53.01	409498.66	1780582.38	-11280.05	17.16	0.97	b
87	9 1	1357 55.10	403759.19	1786883.25	-8596.58	17.63	1.33	þ
87		2311 28.46	392509.34	1785660.38	-16622.61	17.79	1.46	a
87	9 2	320 26.68	410219.44	1777302.50	-13185.56	18.39	1.92	a
87		816 40.48	405716.53	1781347.88	-15201.91	17.63	1.33	Þ
87	9 2	2213 17.34	409339.53	1784568.75	-49703.40	18.62	2.09	d
87		2356 49.77	404557.44					
			404337.44	1777466.00	-13102.41	18.09	1.69	a
87	93	2133 0.75	407226.03	1777244.88	-12414.14	18.48	1.98	ь
87	9 3	2144 56.75	408365.44	1784809.13	-16642.51	17.53	1.25	a
87		2011 27.93	393857.44	1797752.63	-13064.44	17.60	1.30	C
87	95.	038 31.07	404364.19	1781372.13	-9604.25	17.63	1.33	С
87								
		054 39.22	401501.03	1788775.13	-14686.68	17.30	1.07	С
87	95	556 59.16	404643.38	1787696.38	-7787.26	17.03	0.87	Þ
87		1553 53.16	392558.53	1781342.25	-13729.68	17.60		
							1.31	Þ
87		1929 34.45	406074.16	1787140.38	-5556.43	16.74	0.65	Þ
87	95	2051 54.17	392698.97	1785702.00	-19620.94	18.22	1.78	
								a
87		2311 14.06	410067.84	1788479.00	-8798.07	16.81	0.70	C
87	96	242 17.79	397710.72	1794448.00	-15980.26	17.63	1.33	b
87								
		5 9 4.78	396506.34	1788378.88	-9745.65	17.91	1.55	C
87	96	813 7.01	413557.66	1785599.00	-9134.98	17.53	1.26	С
87	96	14 3 8.16	404398.31	1791638.38				
					-8290.77	16.97	0.83	þ
87		430 12.21	396544.72	1790913.38	-3055.52	17.73	1.41	a
87	9 7	726 36.96	405506.88	1788074.63	-10407.22	17.19	0.99	
87								C
		19 7 43.65	399890.47	1793620.63	-4995.75	16.80	0.69	C
87	97	2020 41.71	407921.56	1776584.50	-13402.38	17.95	1.58	a
87		1621 4.93	409120.38	1788671.63				
					-13429.79	17.69	1.38	Ъ
87	912	051 11.83	409282.09	1782043.75	-12399.15	18.30	1.84	Þ
87	912	347 25.87	404748.69	1781671.25	-16445.54	17.65	1.35	
								a
87		1734 19.83	405795.25	1778624.38	-16206.36	18.19	1.76	a
87	912	2043 9.29	397703.16	1777230.63	-4700.92	17.51	1.24	þ
_	912	2338 38.15						
			408147.28	1786610.50	-8315.50	17.29	1.07	Ъ
87	913	322 43.07	403283.50	1788475.63	-8678.89	17.45	1.19	Þ
87	913	516 55.79	409487.47	1781292.38	-13252.74	17.52	1.25	
								a
87		733 58.36	409944.16	1777546.00	-13456.63	18.24	1.80	a
87	913	916 31.76	399119.16	1790552.50	-13122.79	17.56	1.28	a
87		928 25.24	398460.72					
				1794336.75	-6911.43	17.03	0.87	C
· 87	913	12 8 37.83	408032.44	1779066.75	-13203.35	18.55	2.04	
87	913	1250 40.78	409212.22	1779533.50	-13279.63			_
						18.42	1.94	а
	913	1252 4.96	408382.50	1786466.13	-10846.34	17.16	0.97	С
87	913	1326 56.12	406352.00	1786404.25	-13313.49	16.98	0.83	
	913	16 0 6.22						a
			399381.97	1791987.50	-7419.31	17.35	1.12	þ
	913	17 0 23.42	399388.84	1792771.75	-4428.50	16.89	0.76	b
87	913	2016 57.98	401881.28	1793353.88				
					-10982.16	17.85	1.50	b
	913	2041 25.96	404451.44	1792579.63	-12368.66	17.44	1.19	þ
87	914	333 4.98	398745.81	1795386.38	5861.66	16.74		
	914						0.65	a
		624 23.11	406044.94	1783362.13	-9810.07	17.11	0.93	C
87	914	910 48.54	400075.53	1795378.13	-17822.39	17.44	1.18	
	914	1223 54.01						C
	7 (4	1443 34.UI	406708.66	1780273.00	-9309.53	17.94	1.57	С
87								þ
	914			1786303 75	-8524 QQ	17 70	, , .	
87	914	18 2 4.08	404662.41	1786303.75	-8524.99	17.70	1.39	
	914 914	18 2 4.08 2216 34.69	404662.41 413442.47	1780309.75	-31534.33	17.94	1.57	b
87	914 914 915	18 2 4.08	404662.41 413442.47	1780309.75	-31534.33	17.94	1.57	þ
87	914 914 915	18 2 4.08 2216 34.69 251 59.01	404662.41 413442.47 406603.66	1780309.75 1783755.63	-31534.33 -16413.35	17.94 17.41	1.57 1.16	b a
87 87	914 914 915 915	18 2 4.08 2216 34.69 251 59.01 256 21.31	404662.41 413442.47 406603.66 404247.72	1780309.75 1783755.63 1795453.88	-31534.33 -16413.35 -9917.91	17.94 17.41 17.29	1.57 1.16 1.07	þ
87 87 87	914 914 915 915 915	18 2 4.08 2216 34.69 251 59.01 256 21.31 348 37.44	404662.41 413442.47 406603.66	1780309.75 1783755.63 1795453.88	-31534.33 -16413.35 -9917.91	17.94 17.41 17.29	1.57 1.16 1.07	b a a
87 87 87	914 914 915 915 915	18 2 4.08 2216 34.69 251 59.01 256 21.31 348 37.44	404662.41 413442.47 406603.66 404247.72 408143.66	1780309.75 1783755.63 1795453.88 1776310.50	-31534.33 -16413.35 -9917.91 -17770.78	17.94 17.41 17.29 18.14	1.57 1.16 1.07 1.72	b a a c
87 87 87 87	914 914 915 915 915 915	18 2 4.08 2216 34.69 251 59.01 256 21.31 348 37.44 718 21.40	404662.41 413442.47 406603.66 404247.72 408143.66 406123.03	1780309.75 1783755.63 1795453.88 1776310.50 1785185.38	-31534.33 -16413.35 -9917.91 -17770.78 -6543.44	17.94 17.41 17.29 18.14 17.34	1.57 1.16 1.07 1.72 1.11	b a a
87 87 87 87	914 914 915 915 915 915 915	18 2 4.08 2216 34.69 251 59.01 256 21.31 348 37.44 718 21.40 1511 37.34	404662.41 413442.47 406603.66 404247.72 408143.66	1780309.75 1783755.63 1795453.88 1776310.50	-31534.33 -16413.35 -9917.91 -17770.78 -6543.44	17.94 17.41 17.29 18.14 17.34	1.57 1.16 1.07 1.72 1.11	b a a c a
87 87 87 87	914 914 915 915 915 915 915	18 2 4.08 2216 34.69 251 59.01 256 21.31 348 37.44 718 21.40 1511 37.34	404662.41 413442.47 406603.66 404247.72 408143.66 406123.03 396460.72	1780309.75 1783755.63 1795453.88 1776310.50 1785185.38 1795457.50	-31534.33 -16413.35 -9917.91 -17770.78 -6543.44 -5187.25	17.94 17.41 17.29 18.14 17.34 17.23	1.57 1.16 1.07 1.72 1.11 1.02	b a c a a
87 87 87 87 87	914 914 915 915 915 915 915	18 2 4.08 2216 34.69 251 59.01 256 21.31 348 37.44 718 21.40 1511 37.34 1553 38.88	404662.41 413442.47 406603.66 404247.72 408143.66 406123.03 396460.72 407645.97	1780309.75 1783755.63 1795453.88 1776310.50 1785185.38 1795457.50 1781197.25	-31534.33 -16413.35 -9917.91 -17770.78 -6543.44 -5187.25 -12990.94	17.94 17.41 17.29 18.14 17.34 17.23 18.30	1.57 1.16 1.07 1.72 1.11 1.02 1.85	b a c a a b
87 87 87 87 87 87	914 914 915 915 915 915 915 915	18 2 4.08 2216 34.69 251 59.01 256 21.31 348 37.44 718 21.40 1511 37.34 1553 38.88 1713 46.53	404662.41 413442.47 406603.66 404247.72 408143.66 406123.03 396460.72 407645.97 402447.19	1780309.75 1783755.63 1795453.88 1776310.50 1785185.38 1795457.50 1781197.25 1785554.75	-31534.33 -16413.35 -9917.91 -17770.78 -6543.44 -5187.25	17.94 17.41 17.29 18.14 17.34 17.23 18.30	1.57 1.16 1.07 1.72 1.11 1.02 1.85	b a c a a b
87 87 87 87 87 87 87	914 914 915 915 915 915 915 915 916	18 2 4.08 2216 34.69 251 59.01 256 21.31 348 37.44 718 21.40 1511 37.34 1553 38.88 1713 46.53	404662.41 413442.47 406603.66 404247.72 408143.66 406123.03 396460.72 407645.97 402447.19	1780309.75 1783755.63 1795453.88 1776310.50 1785185.38 1795457.50 1781197.25 1785554.75	-31534.33 -16413.35 -9917.91 -17770.78 -6543.44 -5187.25 -12990.94 -3931.20	17.94 17.41 17.29 18.14 17.34 17.23 18.30 16.53	1.57 1.16 1.07 1.72 1.11 1.02 1.85 0.49	b a c a a b b
87 87 87 87 87 87 87	914 914 915 915 915 915 915 915 916	18 2 4.08 2216 34.69 251 59.01 256 21.31 348 37.44 718 21.40 1511 37.34 1553 38.88 1713 46.53 049 6.01	404662.41 413442.47 406603.66 404247.72 408143.66 406123.03 396460.72 407645.97 402447.19 407573.81	1780309.75 1783755.63 1795453.88 1776310.50 1785185.38 1795457.50 1781197.25 1785554.75 1778487.63	-31534.33 -16413.35 -9917.91 -17770.78 -6543.44 -5187.25 -12990.94 -3931.20 -9671.38	17.94 17.41 17.29 18.14 17.34 17.23 18.30 16.53 17.29	1.57 1.16 1.07 1.72 1.11 1.02 1.85 0.49 1.07	b a a c a a b b d
87 87 87 87 87 87 87	914 914 915 915 915 915 915 915	18 2 4.08 2216 34.69 251 59.01 256 21.31 348 37.44 718 21.40 1511 37.34 1553 38.88 1713 46.53	404662.41 413442.47 406603.66 404247.72 408143.66 406123.03 396460.72 407645.97 402447.19	1780309.75 1783755.63 1795453.88 1776310.50 1785185.38 1795457.50 1781197.25 1785554.75	-31534.33 -16413.35 -9917.91 -17770.78 -6543.44 -5187.25 -12990.94 -3931.20	17.94 17.41 17.29 18.14 17.34 17.23 18.30 16.53	1.57 1.16 1.07 1.72 1.11 1.02 1.85 0.49	b a c a a b b

Ω7	916	547 27.03	406298.88	1784407.38	-16581.60	17 00	9 69	_
			400230.00			17.89	1.53	а
87	916	1658 56.80	408853.63	1777904.25	-13009.64	18.72	2.17	a
97	916	19 7 22.48	402492.81	1788742.13				
					25544.34	14.08	-1.40	a
87	916	2037 45.81	406342.81	1788177.25	-1972.65	16.91	0.78	С
	916							
		2115 30.56	413271.22	1777861.00	-13465.54	18.68	2.14	a
87	916	2133 36.47	412865.06	1776427.25	-16328.52	18.25	1.81	
								þ
87	917	013 47.41	404098.44	1787308.38	-4441.40	16.70	0.62	Þ
07	917	020 18.33						
			405354.31	1786001.38	-6739.81	17.15	0.96	þ
87	917	5 3 46.28	406543.63	1784861.13	-7633.83	17.16	0.97	
							0.97	þ
87	917	929 19.86	407043.28	1792412.00	-13157.24	17.20	1.00	С
97	917	1324 18.06	407165.31	1781381.50	-10286.83			
						17.98	1.60	С
87	917	1325 35.32	406214.91	1784598.00	- 7527.53	17.31	1.09	b
	917							
		1656 32.83	406215.22	1792466.88	-13274.99	17.51	1.24	b
87	917	1731 35.19	410872.31	1785648.88	· - 7969.21	17.23		
							1.02	Þ
8/	917	1848 41.56	405525.91	1783802.88	-4917.59	16.68	0.60	a
· 27	917	1854 32.04	396571.31	1704750 20				
				1784758.38	-9654.33	17.45	1.19	Ъ
87	917	19 3 48.71	412451.34	1777861.00	-13070.46	18.18	1.76	
								a
87		2224 43.94	403297.25	1785460.63	-11171.97	17.69	1.37	C
87	917	2227 33.11	394608.06	1801694.63	-150387.94	20.08		
							3.21	d
87	918	811 48.41	406032.16	1789896.50	-22904.46	18.00	1.61	b
87	918	1235 37.38	407482.91					
				1776538.38	-13300.99	17.17	0.98	Þ
87	918	1819 1.75	411673.47	1779017.38	-13449.53	18.24	1.80	
								a
	918	2054 46.69	410132.81	1787139.75	-2406.16	16.48	0.44	Þ
87	919	1 5 0.24	397914.13	1791838.00	-5523.88	16.95		
							0.81	Þ
8/	919	630 40.87	407830.66	1783120.38	-12884.50	17.26	1.04	C
87	919	651 48.64	412080.28					
				1778209.63	-12905.06	18.24	1.80	a
87	919	918 55.66	409864.78	1776292.25	-13319.25	18.37	1.90	
								a
			405823.50	1786259.88	-16351.22	17.47	1.21	a
87	919	1710 13.79	409629.53	1778436.13	-13099.15	17.92		
							1.55	a
	919	1711 15.67	404940.63	1776071.88	-11585.94	17.80	1.46	þ
87	920	427 24.13	398179.56	1792358.13	-7337.72			
						16.96	0.81	C
87	920	1215 31.80	409332.94	1781332.63	-13427.03	17.80	1.46	a
87	920	1822 9.99	407881.84					
				1784196.75	-13258.61	17.36	1.13	a
87	920	1823 18.84	410888.41	1780988.63	-12248.82	18.29	1.84	a
87	920	1920 36.00					_	
			409537.03	1781189.25	-10582.87	17.55	1.27	C
87	921	2 2 53.93	408310.66	1780566.88	-11266.98	17.91	1.55	
87								C
		518 21.89	410152.81	1782592.75	-12140.47	18.33	1.87	a
87	921	15 1 19.49	405431.09	1786105.88	-4188.02			
87						16.92	0.78	Þ
		21 5 34.98	403518.72	1788234.25	-35889.07	18.48	1.98	C
87	921	23 8 35.08	403543.66	1786672.00	-8526.59	17.74		
					-6326.39		1.41	ь
	922	254 6.76	409824.09	1779324.75	-13428.65	17.62	1.33	a
87	922	613 40.19	405833.66	1782352.13				
					-9183.75	17.52	1.24	C
87	922	617 12.23	405375.66	1783676.13	-8349.19	17.50	1.23	b
87	922	7 1 58.26						-
			403312.00	1783275.00	-8290.00	17.22	1.02	a
87	922	827 1.23	404154.22	1786939.88	-6781.67	17.17		
	922	1127 7.25					0.98	Ъ
			398210.72	1792727.13	-5771.66	17.12	0.94	b
87	922	15 8 13.47	410375.59	1785561.38	-18073.20	17.50		
	922	1711 39.81					1.23	Þ
			396869.19	1791429.75	-11906.96	17.60	1.31	þ
87	922	2237 50.95	405022.31	1791391.75	-11686.18			
	923					17.31	1.09	C
		2 7 15.79	402697.84	1788005.63	-13154.61	17.43	1.18	a
87	923	259 50.71	409381.50	1777293.75	-13053.46			
						17.91	1.55	a
	923	310 6.95	407233.56	1780663.88	-13466.91	17.29	1.07	a
87	923	5 4 34.23	396227.16	1795580.25				
					-7996.28	17.50	1.23	С
8/	923	941 52.74	409551.47	1777176.13	-13291.41	17.61	1.31	
27	923	1551 31.05						а
			407368.41	1781744.13	-10548.37	17.62	1.33	C
87	923	2259 1.80	406448.16	1779950.75				
	924				-13403.96	17.02	0.86	C
		055 24.82	399571.91	1791040.25	-13327.04	17.90	1.54	
87	924	056 14.09						C
		000 14.09	398206.78	1791610.38	-10532.36	17.63	1.33	C
8/	924	. 142 14.28	405561.03	1783745.75	-8041.87	17.30		
	924	14E C 00					1.08	C
		145 6.82	407596.75	1778363.88	-12549.16	17.30	1.08	a
87	924	2 1 55.74	406557.06					
				1786567.63	-1929.62	16.65	0.58	Þ
	924	3 4 3.93	397755.34	1791928.38	-11805.08	17.68	1.37	
87	924	358 51.74						С
			396126.41	1791771.63	-13282.01	17.46	1.20	a
87	924	6 0 22.89	406928.47	1782268.00				
	924				-13177.58	17.34	1.10	a
			404049.56	1785537.38	-8388.99	17.35	1.12	d
87	924	1249 47.78	399701.84	1790225.88	-11924.64		··· - — —	
		3			-11744.04	18.56	2.04	a

87 924										
87 924 131 6.34 404657.16 1783587.636679.88 17.32 1.09 b 87 924 1217 8.99 406062.97 178936.130673.70 17.40 1.15 b 87 925 8.3 19.04 406627.59 1787486.509070.17 16.83 0.71 c 87 925 8.3 19.04 406627.59 1787486.509070.17 16.83 0.71 c 87 925 1029 50.58 400205.44 1803907.63 28359.21 12.442.66 a 87 925 1331 5.05 4004205.44 1803907.63 28359.21 12.442.66 a 87 925 1331 5.05 4004205.41 1803907.63 28359.21 12.442.66 a 87 925 1331 5.05 4004205.41 1803907.63 28359.21 17.43 1.10 b 87 925 1843 53.71 410597.03 1784145.8816816.12 17.93 1.56 a 87 925 2014 77.33 404211.63 1786589.259107.22 17.33 1.10 b 87 925 2224 225.70 412937.25 1784165.1312658.50 17.61 1.31 a 87 925 2226 12.32 3397956.44 1793115.004288.23 17.03 0.87 c 87 926 0.38 58.61 411603.25 1786502.133447.13 18.25 1.80 a 87 925 226 12.32 3.22 40582.9 a 87 926 123 40.48 405841.63 178579.804583.65 17.03 0.87 c 87 926 123 40.48 405841.63 178579.804583.65 17.03 0.87 c 87 926 123 40.48 405841.63 178579.803365.47 18.23 1.84 a 87 926 123 30 3.72 40981.9 a 87 926 123 30 3.04 40725.28 177952.381279.28 17.76 1.43 a 87 926 123 30 3.72 40981.9 a 87 927 126 22.61 41733.84 1777777.3812792.79 17.78 1.45 a 87 927 216 22.61 41733.84 1777777.3812792.79 17.78 1.45 a 87 927 216 22.61 41733.84 1777777.3812792.79 17.78 1.45 a 87 927 126 22.61 41733.84 1777777.3812792.79 17.78 1.45 a 87 927 126 22.61 41733.84 1777777.3812792.79 17.78 1.45 a 87 927 126 22.64 41733.84 1777777.3812792.79 17.78 1.45 a 87 927 126 22.64 41733.84 1777777.3812792.79 17.78 1.45 a 87 927 126 22.64 41733.84 1777777.3812792.79 17.78 1.45 a 87 927 127 38 8.88 400224.03 1795579.6313366.54 17.69 1.32 a 87 927 127 38 8.88 400224.03 179579.6313326.54 17.69 1.33 a 87 927 127 38 8.88 400240.93 179579.6313326.54 17.69 1.33 a 87 927 127 38 8.88 400240.93 179579.6313326.54 17.69 1.33 a 87 927 127 38 8.88 400240.93 179579.6313326.54 17.69 1.33 a 87 927 127 38 8.89 400240.93 179579.6313326.54 17.69 1.33 a 87 929 120 227 33 39 30406.60 179079.80	07	024	1261	20 22	405503.00	1700607 00	0610 01			
87 924 1444 24.49 404764.09 1784946.13 -4421.58 16.98 0.83 b 87 925 3217 8.99 4060627.97 1778936.13 -4021.58 16.98 0.83 b 87 925 351 54.39 4046261.50 1787013.38 -4422.96 16.88 0.76 b 87 925 1029 50.58 400205.44 1803907.63 28359.21 12.44 -2.66 a 87 925 1157 39.85 407270.97 1779211.13 -13062.96 18.20 17.7 a 87 925 1311 5.05 404490.81 1786589.25 -9107.22 17.33 1.10 b 87 925 22 1311 5.05 404490.81 1786589.25 -9107.22 17.33 1.10 b 87 925 22 224 27.70 412937.25 1784145.88 -16816.12 17.93 1.56 a 87 925 22 224 27.70 412937.25 1784145.88 -16816.12 17.93 1.56 a 87 925 22 224 27.70 412937.25 1784156.13 -12588.50 17.61 1.31 a 87 925 22 23 10.84 40581.65 17893602.03 -4228.23 17.00 0.87 c 87 926 239 10.84 40581.65 17893602.03 -4228.23 17.00 0.87 c 87 926 239 10.84 40581.65 17893602.03 -4228.23 17.00 0.88 c 87 926 239 10.84 40581.65 1789361.13 -13076.93 16.92 0.74 a 87 926 1330 3.72 409819.81 1778941.13 -13076.93 16.92 0.74 a 87 926 1330 4.79 409573.75 1776377.138 -12287.32 17.63 1.33 a 87 926 1815 9.79 409573.75 1776371.38 -12287.32 17.63 1.33 a 87 926 1815 9.79 406642.34 1778942.88 -10730.24 17.93 1.56 c 87 927 013 6.94 407299.53 1786908.75 -122981.68 17.58 1.29 c 87 927 133 88.88 400294.03 1786908.75 -122981.68 17.58 1.29 c 87 927 133 18.19 409899.97 17771.66 7.73 1.38 1.79 1.79 1.78 1.45 a 87 927 143 144 55.00 400483.09 178173.50 0.1740.24 17.70 1.38 a 87 927 143 144 56.90 400483.09 178173.50 0.1740.24 17.70 1.38 a 87 927 133 13.80 400841.31 178597.63 -13346.89 17.58 17.69 1.33 a 87 928 43 45.70 409899.97 17771.66 7.73 1.34 1.29 1.70 1.38 a 87 927 126 22.61 411733.88 400294.03 178957.63 -13346.89 17.58 1.76 1.33 a 87 927 133 13.80 400841.31 178597.63 -13346.89 17.75 1.76 1.43 a 87 927 133 134 1.99 406560.89 17897.70 88 -12798.09 17.78 1.89 1.89 1.89 1.89 1.89 1.89 1.89 1.8									0.97	С
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87 929 2238 52.52 406009.16 1788044.63 -3319.97 16.74 0.65 c 87 930 159 6.76 409387.41 1778535.25 -13401.90 18.35 1.88 a 87 930 159 36.94 407317.25 1781080.13 -12332.08 17.99 1.61 b 87 930 225 46.90 403601.06 1788421.13 -16444.46 17.59 1.30 a 87 930 325 57.92 407520.63 1779119.50 -12212.99 17.83 1.48 a 87 930 640 22.71 411193.50 1779399.75 -13349.13 17.02 0.86 a 87 930 8 0 36.63 397316.69 1793806.63 -1742.38 16.54 0.49 c 87 930 1024 41.95 407405.50 1780810.88 -12213.66 18.19 1.76 a 87 930 1026 37.14 407636.78 1782711.88 -9320.82 17.27 1.06 b 87 930 1047 19.66 408925.81 1776049.00 -12891.82 17.59 1.30 a 8710 1	87	929	2039	9.22	409164.00					
87 930 159 6.76 409387.41 1778535.25 -13401.90 18.35 1.88 a 87 930 159 36.94 407317.25 1781080.13 -12332.08 17.99 1.61 b 87 930 225 46.90 403601.06 1788421.13 -16444.46 17.59 1.30 a 87 930 325 57.92 407520.63 1779119.50 -12212.99 17.83 1.48 a 87 930 640 22.71 411193.50 1779399.75 -13349.13 17.02 0.86 a 87 930 8 0 36.63 397316.69 1793806.63 -1742.38 16.54 0.49 c 87 930 1024 41.95 407405.50 1780810.88 -12213.66 18.19 1.76 a 87 930 1026 37.14 407636.78 1782711.88 -9320.82 17.27 1.06 b 87 930 1047 19.66 408925.81 1776049.00 -12891.82 17.59 1.30 a 8710 1 732 19.67 409471.41 1776440.25 -13368.91 18.00 1.62 a										С
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87 930 225 46.90 403601.06 1788421.13 -16444.46 17.59 1.30 a 87 930 325 57.92 407520.63 1779119.50 -12212.99 17.83 1.48 a 87 930 640 22.71 411193.50 1779399.75 -13349.13 17.02 0.86 a 87 930 8 0 36.63 397316.69 1793806.63 -1742.38 16.54 0.49 c 87 930 1024 41.95 407405.50 1780810.88 -12213.66 18.19 1.76 a 87 930 1026 37.14 407636.78 1782711.88 -9320.82 17.27 1.06 b 87 930 1047 19.66 408925.81 1776049.00 -12891.82 17.59 1.30 a 8710 1 430 14.82 396832.78 1792583.13 -12848.65 17.88 1.52 a 8710 1 732 19.67 409471.41 1776440.25 -13368.91 18.00 1.62 a	87	930								
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87 930 640 22.71 411193.50 1779399.75 -13349.13 17.02 0.86 a 87 930 8 0 36.63 397316.69 1793806.63 -1742.38 16.54 0.49 c 87 930 1024 41.95 407405.50 1780810.88 -12213.66 18.19 1.76 a 87 930 1026 37.14 407636.78 1782711.88 -9320.82 17.27 1.06 b 87 930 1047 19.66 408925.81 1776049.00 -12891.82 17.59 1.30 a 8710 1 430 14.82 396832.78 1792583.13 -12848.65 17.88 1.52 a 8710 1 732 19.67 409471.41 1776440.25 -13368.91 18.00 1.62 a	87	930	325	57.92	407520.63					
87 930 8 0 36.63 397316.69 1793806.63 -1742.38 16.54 0.49 c 87 930 1024 41.95 407405.50 1780810.88 -12213.66 18.19 1.76 a 87 930 1026 37.14 407636.78 1782711.88 -9320.82 17.27 1.06 b 87 930 1047 19.66 408925.81 1776049.00 -12891.82 17.59 1.30 a 8710 1 430 14.82 396832.78 1792583.13 -12848.65 17.88 1.52 a 8710 1 732 19.67 409471.41 1776440.25 -13368.91 18.00 1.62 a			. 640	22 71						
87 930 1024 41.95 407405.50 1780810.88 -12213.66 18.19 1.76 a 87 930 1026 37.14 407636.78 1782711.88 -9320.82 17.27 1.06 b 87 930 1047 19.66 408925.81 1776049.00 -12891.82 17.59 1.30 a 8710 1 430 14.82 396832.78 1792583.13 -12848.65 17.88 1.52 a 8710 1 732 19.67 409471.41 1776440.25 -13368.91 18.00 1.62 a			. 040	26.11						a
87 930 1024 41.95 407405.50 1780810.88 -12213.66 18.19 1.76 a 87 930 1026 37.14 407636.78 1782711.88 -9320.82 17.27 1.06 b 87 930 1047 19.66 408925.81 1776049.00 -12891.82 17.59 1.30 a 8710 1 430 14.82 396832.78 1792583.13 -12848.65 17.88 1.52 a 8710 1 732 19.67 409471.41 1776440.25 -13368.91 18.00 1.62 a			8 0	36.63	397316.69	1793806.63	-1742.38	16.54	0.49	C
87 930 1026 37.14 407636.78 1782711.88 -9320.82 17.27 1.06 b 87 930 1047 19.66 408925.81 1776049.00 -12891.82 17.59 1.30 a 8710 1 430 14.82 396832.78 1792583.13 -12848.65 17.88 1.52 a 8710 1 732 19.67 409471.41 1776440.25 -13368.91 18.00 1.62 a	87 9	930	1024	41.95						
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8710 1 430 14.82 396832.78 1792583.13 -12848.65 17.88 1.52 a 8710 1 732 19.67 409471.41 1776440.25 -13368.91 18.00 1.62 a			1020	J/.14					1.06	Þ
8710 1 430 14.82 396832.78 1792583.13 -12848.65 17.88 1.52 a 8710 1 732 19.67 409471.41 1776440.25 -13368.91 18.00 1.62 a			1047	19.66	408925.81	1776049.00	-12891.82	17.59		
8710 1 732 19.67 409471.41 1776440.25 -13368.91 18.00 1.62 a	8710	1	430	14.82						
9730 3 1022 52 05 1027/1:41 1//0440.25 -13308.91 18.00 1.62 a							· -			a
						1776440.25	-13368.91	18.00	1.62	a
	0 / 1 (J	1033	53.85	409785.38	1780791.00	-12920.29	17.84	1.49	a

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8710 1	1141 55.67	404914.38	1787394.25	-1332.55	16.75	0.65	C
8710 1	12 5 47.85	410412.66	1780477.00	-13248.68	17.59	1.30	
							a
8710 1	1817 9.65	408740.78	1779638.25	-16419.69	18.59	2.07	C
8710 1	2043 31.81	404364.84	1786241.00	-13354.53	17.40	1.16	
					-		8
8710 1	23 7 22.78	410316.88	1778975.38	-12543.36	18.04	1.65	a
8710 2	050 5.27	405507.88	1782874.38	-7951.00	17.22	1.02	
							C
8710 2	130 42.01	399919.69	1796187.63	-13032.91	17.49	1.23	a
8710 2	433 27.73	410346.72	1778476.38	-13181.59			
					17.19	1.00	Þ
8710 2	714 59.23	395289.81	1795234.00	-7347.97	17.38	1.13	b
8710 3	928 34.53	412538.31	1786851.63				
				-16711.88	17.90	1.54	ъ
8710 3	10 6 22.18	397200.88	1791397.88	-14702.82	17.61	1.31	Þ
8710 3	1933 45.86	396060.13	1789266.38				
				-9038.10	17.63	1.33	Þ
8710 3	1935 12.98	396043.75	1790429.75	-7462.38	17.26	1.05	Þ
8710 4	1844 11.23	401650.31					
			1789887.25	-6967.05	17.64	1.34	Þ
8710 5	2111 52.17	397300.94	1789381.88	-4774.64	17.05	0.89	a
8710 6	137 30.17	400455.78	1798720.63				
				-16407.12	17.69	1.37	a
8710 6	754 16.99	395559.50	1790364.50	-6661.72	17.09	0.92	Þ
8710 6	935 45.12	397848.19	1789519.25				
				-6318.79	17.63	1.33	Þ
8710 6	23 6 24.54	410096.72	1790136.00	-2641.16	16.91	0.77	ъ
8710 7	1125 34.01	398467.94					
			1790685.63	-8616.33	17.21	1.01	ь
8710 8	052 28.83	394214.38	1796382.38	-13322.90	17.67	1.36	a
8710 8	7 6 12.81	401315.34	1790078.38	-12706.62			
					17.49	1.22	C
8710 8	1612 50.21	408120.69	1796433.50	-7429.60	17.06	0.89	C
8710 9	238 7.49	397161.50	1791611.13	-19269.76	17.98	1.60	
							d
8710 9	642 22.73	409829.34	1789709.88	-13429.35	17.12	0.93	С
8710 9	1642 51.77	399526.97	1787689.63	-11907.79	16.85	0.73	
							C
8710 9	1644 4.12	399562.09	1790058.88	-7556.52	17.29	1.07	ь
8710 9	1911 44.19	406348.41	1788966.13	-7650.48	16.96	0.81	
							Ъ
871010	955 58.06	397352.78	1790129.63	-6507.02	17.18	0.98	a
871010	1015 50.06	403987.22	1791615.38	-9227.11	17.86	1.51	
							Þ
871010	19 7 55.19	403899.63	1787405.88	-6989.92	17.10	0.92	ь
871010	2355 14.01	402490.84	1785258.50	-8540.47	17.96		
						1.59	С
871010	2355 44.08	404313.31	1786884.25	-8556.31	17.63	1.33	b
871011	148 36.83	395781.28	1788824.38	-8555.84	17.72	1.40	
							b
871011	153 47.88	396028.66	1788748.75	-7841.95	17.32	1.09	b
871011	710 57.02	396497.47	1790595.38	-6417.37	17.23	1.02	b
871012							
	20 6 43.97	408484.22	1794955.25	-9675.30	16.92	0.78	С
871012	2340 59.75	402858.94	1788995.63	-13343.91	18.26	1.82	þ
871013	915 28.57	395043.44					
			1793303.50	-17437.12	17.61	1.32	C
871013	1035 56.73	402261.84	1788452.88	-13381.77	17.57	1.28	a
871013	1843 38.80						
		405921.59	1789591.50	-2704.10	16.75	0.66	Ъ
871014	628 2.99	406394.66	1787203.38	-9770.16	17.27	1.06	
871014	1329 57.51	393244.91					С
			1787537.38	-14048.56	17.91	1.54	a
871015	10 4 50.78	398185.47	1790944.13	-13443.26	17 47	1 21	2
871016	11 9 23.84	410008.78		10766.26			a
			1781855.13	-12766.76	17.84	1.49	а
871016	1718 27.73	402747.75	1781661.50	-10235.08	18.39	1.91	С
871016	1934 31.68	408171.56					
			1782655.50	-33121.74	18.29	1.84	С
871017	2 0 4.68	404913.06	1784722.75	-2036.82	16.76	0.66	þ
871017	534 28.04	405477.69	1785712.25				
				-16430.62	17.71	1.40	đ
871017	814 0.51	393333.50	1797686.63	-19392.54	17.92	1.56	С
871017	844 16.55	408271.94	1779119.75	-16409.86			
					17.98	1.60	С
871017	1240 34.72	413911.31	1781195.88	-12355.84	18.14	1.72	a
871017	1319 11.83	409337.22	1780532.50	-13481.99	17.85		
871017	1335 41 71				17.65	1.50	a
	1335 41.71	409120.03	1776701.63	-13397.34	17.70	1.39	a
871017	2322 23.69	409202.72	1778438.38	-13040.04			
871018					17.77	1.44	þ
	013 54.41	406714.56	1780429.75	-3946.15	17.51	1.24	þ
871018	250 44.97	400222.16	1789597.38	-11564.25			
871018					17.47	1.21	C
	435 26.55	406798.22	1781981.25	-3675.64	17.09	0.91	Þ
871018	. 546 26.40	406138.44	1781900.00				
				-1159.86	16.74	0.64	a
871018	7 5 40.31	407534.44	1781443.25	-2311.42	16.72	0.63	a
871018	1111 27.17	405461.28					
			1787211.63	-16161.24	18.36	1.89	d
871018	1725 50.54	403094.50	1787789.88	-18056.95	17.62	1.32	a
871019	212 31.09	411590.81					
			1777398.50	-25768.23	17.88	1.53	C
871019	738 26.82	410774.53	1777907.25	-6059.57	17.38	1.14	
871019	9 6 42.41	406364.16					a
			1787264.63	-6189.71	17.18	0.99	b
871019	1048 45.03	398804.88	1791595.38	-10549.73	17.37	1.13	c
							C

871019	1053 59.12	408597.72	1778248.75	-1143.41	16.72	0.63	_
871019	12 8 15.87					0.63	a
		396995.50	1792741.38	-13332.16	18.05	1.66	C
871019	15 7 17.81	398665.44	1778461.00	-64637.38	19.24	2.57	С
871019	1818 21.32	396294.41	1790380.50	-12783.98	17.86	1.51	Þ
871019	2235 11.85	401673.28	1794093.13	-19319.00	18.29	1.84	d
871020	655 38.37	404779.19	1782604.38	-19072.07	18.00	1.62	a
871020	1054 17.55	411085.22	1781404.00	-36640.30	18.27	1.83	c
871020	1611 44.65	399351.78	1794202.50	5110.76	16.69		
871020	17 3 40.44	399925.25	1792145.25			0.61	a
				-5349.91	17.40	1.15	С
871020	1938 54.76	394944.69	1792301.38	-15817.54	18.02	1.63	a
871020	2056 4.21	409310.00	1776138.13	-21467.62	18.05	1.65	С
871020	23 8 42.86	398600.13	1795486.25	-1083.55	17.18	0.99	C
871021	333 35.61	411096.03	1778459.00	-29967.22	18.24	1.80	C
871021	522 11.63	409263.09	1784183.75	-3589.53	17.27	1.06	С
871021	1454 6.44	398950.22	1794345.88	6633.33	16.76	0.66	b
871021	17 0 49.70	399999.75	1785772.63	-17428.59	17.96	1.59	ã
871021	2157 27.22	409494.69	1789492.63	-39686.23	18.66	2.12	
871022	731 19.74	406352.34	1784902.75				Ç
871022	1235 11.77	401633.59		-1754.57	16.87	0.75	Þ
			1788245.63	-13133.93	17.55	1.27	a
871022	1326 56.96	404712.94	1791003.25	-13394.96	18.21	1.78	a
871022	19 2 34.91	408064.59	1788282.75	-13458.92	17.50	1.23	a
871022	2252 42.46	409866.09	1779436.75	-18169.83	18.54	2.03	d
871023	135 8.21	408231.56	1782827.63	-39783.87	18.09	1.68	ç
871023	842 34.76	407579.03	1778983.00	-12836.47	18.05	1.65	Č
871023	920 37.56	404088.59	1786544.00	-1713.90	16.95	0.81	b
871023	1020 33.09	407159.75	1784066.00	-8703.82	17.38		
871023	1325 46.25	407040.97			17.30	1.14	C
			1786064.00	-6384.80	17.42	1.17	C
871024	239 47.74	401091.94	1788502.00	-12839.03	18.61	2.09	a
871024	543 23.22	405522.31	1785959.75	-6659.13	17.61	1.32	C
871024	621 1.49	404929.13	1785905.38	-3143.15	17.22	1.01	С
871024	631 10.84	405777.56	1784906.38	-12290.10	17.75	1.43	d
871024	1112 36.31	406524.59	1785443.50	-7753.54	16.97	0.82	b
871024	1148 15.22	397955.81	1787575.50	-23854.83	18.82	2.24	ď
871024	1150 33.86	398963.66	1790498.88	-13147.73	18.09	1.68	ā
871024	1420 8.88	404388.47	1784351.75	-11289.57			
871024	2014 46.95	405097.78			18.61	2.08	Ъ
871024	2039 48.13	402993.47	1779710.63	-28008.89	18.64	2.10	C
871024	21 9 49.09		1795905.38	-12660.66	18.01	1.62	d
871025		397527.31	1786106.25	-24794.40	19.04	2.42	a
	248 10.54	406623.03	1786397.25	-4324.34	16.96	0.81	C
871025	358 42.43	405560.38	1783249.38	-8858.70	17.69	1.38	С
871025	612 51.29	407724.38	1786289.13	-5979.02	18.44	1.95	С
871025	7 7 42.39	405192.59	1785352.38	-4129.36	16.86	0.74	c
871025	725 36.99	405679.47	1782961.00	-9475.91	17.63	1.33	c
871025	952 28.42	407515.06	1787026.63				-
871025	1013 41.01	407023.94	1786133.50	-5487.46 1273.22	16.87	0.75	ď
871025	1028 34.99	405040.69			16.52	0.48	b
871025			1787657.13	-7177.79	17.61	1.32	С
	1046 59.80	409266.38	1781816.63	-13194.09	18.55	2.04	С
871025	12 9 0.04	406184.72	1790017.00	-9328.80	17.49	1.22	a
871025	1238 38.32	402696.22	1782160.88	-9164.53	18.57	2.05	þ
871025	1453 28.28	406392.38	1789736.13	-7181.49	17.31	1.08	a
871025	1517 31.15	405775.25	1790155.75	-7769.32	17.31	1.09	a
871025	16 0 15.85	406893.03	1782526.50	-10708.91	17.84		
871025	1728 38.90	406100.38	1783293.63			1.49	Þ
871025	1813 32.93			-11885.80	17.96	1.58	d
871025	1013 32.93	400521.69	1790629.75	-27838.42	19.77	2.97	d
	1816 45.18	406330.38	1781929.75	-23648.34	18.66	2.13	b
871025	21 5 25.39	405032.47	1786147.38	-4771.03	16.83	0.72	С
871025	2314 23.54	402053.84	1794720.38	-8996.98	17.52	1.25	C
871026	226 9.54	407139.75	1786896.00	-5362.68	17.04	0.88	c
871026	458 45.81	405978.97	1780430.13	-12841.33	17.81	1.47	
871026	537 56.44	407097.41	1785958.88				C
871026	654 47.17			-4134.81	17.32	1.09	þ
871026		406796.59	1784806.50	-6714.03	17.70	1.39	C
	1421 2.54	406728.66	1785829.88	-3231.10	17.09	0.92	С
871026	1437 39.30	405655.84	1788750.88	-8821.29	17.39	1.15	đ
871027	9 5 2.76	406564.63	1782910.38	-13251.19	18.03	1.64	ā
871027	11 5 12.50	405489.16	1786053.25	-4214.30	16.71	0.62	c
871028	113 52.31	404953.72	1785553.38	-5579.70	17.60	1.31	
			_ :	3313.70	17.00	1.91	С

871028	346 8.51	404301.84	1786923.25	-3250.16	17 20		_
871028	350 14.87	406676.47	1787409.63		17.39	1.15	a
871028	9 6 14.76			-13407.82	18.11	1.70	a
		403784.47	1784386.75	-13241.36	18.40	1.92	Þ
871028	1055 47.51	405554.78	1785454.25	-2597.14	17.24	1.03	Þ
871028	1219 0.34	405879.25	1787512.00	- 5808.59	17.38	1.14	С
871028	1227 46.68	410211.91	1782912.75	-13389.78	18.02	1.63	С
871028	1330 1.89	406893.66	1780749.75	-10667.67	18.09	1.69	C
871030	2315 29.45	405494.09	1785800.50	-3545.00	17.23	1.02	c
871031	149 54.57	398824.88	1784321.13	-33777.87	19.24	2.57	Ċ
871031	229 48.94	404818.91	1788531.00	-11752.55	17.59	1.30	c
871031	451 50.31	404657.50	1785694.75	-4907.39	17.34	1.11	b
871031	9 1 45.77	402470.19	1788331.38	-13091.64	18.10	1.69	
871031	917 34.12	406753.25	1784429.88	-8913.65	17.74		a
871031	1158 25.99	407331.34	1778972.13	-3548.90		1.42	C
8711 5	4 2 50.51	406595.47	1786294.25		16.96	0.81	Ъ
8711 5	6 3 1.38	403495.75		-5144.34	17.36	1.12	đ
			1781822.88	-7559.50	17.65	1.35	þ
8711 5	623 43.98	403870.75	1784283.00	-8850.60	18.02	1.63	Ъ
8711 5	624 29.99	404110.59	1789182.63	-547.44	16.95	0.80	Þ
8711 5	916 22.26	404776.59	1785557.75	-6637.78	17.16	0.97	C
8711 5	946 21.72	406494.41	1788352.63	-3697.16	16.59	0.53	b
8711 5	2048 13.22	408116.44	1783422.00	-6864.22	17.95	1.58	С
8711 5	2139 54.05	397971.53	1787143.75	-25501.27	19.26	2.58	d
8711 5	2226 0.06	406951.75	1784093.38	-9859.95	17.72	1.40	É
8711 5	2227 24.35	407220.13	1786405.88	-6426.86	16.98	0.83	C
8711 6	216 5.37	404650.25	1785643.25	-3914.83	17.35	1.11	b
8711 6	4 8 10.90	405936.34	1792868.75	-16588.92	17.72	1.40	
8711 6	6 2 12.81	405815.28	1784107.00	-2738.67	16.95		a
8711 6	614 38.00	408382.19	1782499.13	-9532.51		0.81	a
8711 6	9 2 44.46	406950.13	1785053.25		17.43	1.17	C
8711 6	11 3 14.34	404882.88		-4145.22	17.17	0.98	C
8711 6			1786563.25	-4938.18	17.34	1.11	þ
8711 6	1138 5.88 1231 44.18	404998.38	1786277.50	-11939.26	17.53	1.26	đ
8711 6		405845.16	1791980.88	-7889.14	17.18	0.99	a
	1351 48.79	408100.38	1782355.75	-13309.88	18.85	2.27	a
8711 6	1357 37.40	405766.41	1805013.13	18136.59	16.04	0.11	a.
8711 6	1519 30.72	404968.81	1785580.63	1083.25	16.83	0.72	a
8711 6	1547 31.10	405304.13	1783800.25	-7564.99	17.74	1.41	C
8711 6	1753 33.41	405079.06	1784506.88	-4469.33	17.01	0.86	C
8711 7	1 1 11.98	410543.91	1785115.88	-9658.67	18.24	1.80	C
8711 7	415 46.08	408125.63	1784612.88	-9608.53	18.17	1.75	C
8711 7	427 5.45	406128.59	1787253.50	-4422.01	17.04	0.88	þ
8711 7	1320 45.70	406783.75	1786791.75	-2583.37	16.92	0.78	b
8711 7	1356 47.14	406191.25	1784207.00	-8462.64	17.69	1.38	c
8711 7	1443 1.12	406721.75	1783979.25	-8939.64	17.91	1.55	c
8711 7	1517 1.80	406835.28	1778190.63	-5972.86	17.10	0.92	
8711 7	1616 37.19	407703.72	1784249.38	-7904.84	17.74	1.41	a
8711 7	1719 36.61	405986.88	1786765.13	-2149.28	17.40	1.15	C
8711 7	1732 33.86	409408.09	1778345.25	-7678.81	17.44	1.19	Ъ
8711 7	1920 52.30	406630.88	1786016.00	-6750.35			C
8711 7	21 4 10.51	406837.59	1788056.50		16.98	0.83	þ
8711 7	22 8 36.21	405889.09		-22002.31	17.92	1.55	C
8711 7			1782249.75	-3585.59	16.92	0.78	þ
8711 7		402818.28	1790707.50	6588.88	17.60	1.31	C
8711 8	2317 1.80	409882.50	1782842.13	-13026.84	18.78	2.21	þ
	010 35.10	406369.09	1782306.88	- 5150.17	16.63	0.56	a
8711 8	011 17.15	405864.16	1782640.88	-4857.57	16.73	0.64	þ
8711 8	255 45.99	406365.16	1782629.63	-8645.57	17.12	0.94	þ
8711 8	3 0 5.87	408542.94	1778741.13	-9371.17	18.42	1.94	b
8711 8	3 1 6.24	406769.34	1782990.13	-6942.99	18.41	1.93	c
8711 8	341 24.96	398524.03	1790586.13	-9910.37	17.55	1.27	
8711 8	. 430 38.65	407425.81	1788287.38	-3317.50	16.85		C
8711 8	439 22.33	397680.53	1792747.00			0.73	þ
8711 8	749 48.04	407456.97		-4240.49	16.78	0.67	Þ
8711 8	1045 44.08		1783249.38	-10254.78	18.50	2.00	С
8711 8	11 2 52 10	399684.78	1790174.38	-8300.76	17.46	1.20	þ
8711 8	11 3 53.18	399037.47	1791339.88	-7308.46	17.35	1.11	C
	1452 29.68	406790.66	1779673.88	-13454.46	17.32	1.09	b
8711 8	1514 1.67	407053.47	1787888.63	-2903.46	16.87	0.75	b
8711 8	1544 24.70	406486.19	1788695.38	-2307.48	17.11	0.93	b

8711 8	1854 20.97	407557.06	1781015.13	-7322.12	17.12	0.94	b
8711 8	2036 5.39	404670.94	1786964.50	-4040.89	17.33	1.10	a
8711 9	325 38.30	407861.53	1792044.88	3745.55	16.25	0.27	b
8711 9	840 0.30	407755.88	1785683.38	-6576.13	17.51	1.23	С
8711 9	1519 54.52	406888.13	1788806.75	-2987.70	16.79	0.69	ъ
8711 9	21 2 42.90	407925.84	1788370.38	-261.73	16.53	0.49	b
8711 9	2115 29.05	406473.41	1787127.50	-9591.68	17.30	1.08	b
8711 9	2130 9.72	404334.31	1784914.38	-13122.68	17.47	1.21	С
8711 9	22 8 26.25	401030.91	1784538.75	-56999.67	18.68	2.14	С
8711 9	23 9 52.14	405128.28	1784604.63	-8514.02	17.64	1.34	С
871110	018 31.82	407750.28	1788321.75	-905.63	16.58	0.52	С
871110	826 0.90	406126.97	1779889.88	-10117.46	17.78	1.45	С

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