

TECHNICAL REPORT #4
CDE SEISMOGRAPH NETWORK
July 1, 1981 -December 31, 1983
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1. INTRODUCTION

This report is to cover the results of the CDE seismic monitoring program during the period from July 15, 1981 through December 31, 1983. The results of the preceeding period were reported in the Technical Report #1-#3 and a number of Field Reports submitted during the period of June 1979 through July 1982. The summary of the previous works carried out under this program is given in section 2.

After the completion of Bao Dam, impounding of the Bao reservoir started in February 1983. At the time of this writing (August 1984) the water loading into Bao reservoir is still continuing and the water level is 7 meters short of full capacity. Throughout this reporting period which covers the initial phase of loading period, no significant increase of seismicity was recognized in the immediate proximity of the reservoir. This quiescence, however, does not mean there will be no induced earthquakes since the water level still may not have reached the crucial level by the end of December 1983. Continued monitoring at least six to twelve months after the completion of loading is recommended.

2. SUMMARY OF THE PREVIOUS WORKS CARRIED OUT UNDER CDE SEISMIC MONITORING PROGRAM

2.1. INSTALLATION OF THE SEISMIGRAPH NETWORK

After the initial contract from CDE was awarded to the University in mid 1979, procurement, assembly and fabrication of the Computerized Seismic Monitoring System (COSMOS) was carried out at Galveston Geophysical Laboratory and seven-station Tavera-Bao seismograph network (station 1 through 7, Figure 3A) was established by the end of November 1979. The first recording of the network started on December 13, 1983.

Six additional stations (station 8 through 13) were constructed during the period of July-August, 1980 to cover the newly found active zones in the central Dominican Republic with the special emphasis on the Alto-Yuna project area. In May 1981 with the collaboration of CAASD two additional stations (station 14 and 15) were augmented near the Madrigal Dam, bringing the total number of the stations in the CDE network to 15 active stations.

2.2. STUDY OF HISTORIC EARTHQUAKES

The largest earthquake in and near the Dominican Republic occurred on August 4, 1946 near Samana ($M_s=8.1$).

The aftershock zone following this event was approximately 175 km x 75 km and extended west-northwest along the boundary between North America and Caribbean plates. Two additional earthquakes, 2nd and 3rd largest since 1930, occurred within and to the northwest of the 1946 rupture zone (April 21, 1948, Ms=7.3 and May 31, 1953, Ms=6.8).

The historic record of the felt earthquakes, summarized by Tabor (1922), indicated that the northwestern and southeastern parts of the Dominican Republic have been frequently damaged by earthquakes. In the Dominican Republic, however, the record-keeping population was not widely distributed to permit an accurate picture of the high-intensity isoseismals and shows the tendency to distribute near the population center of the times.

2.3. PEAK ACCELERATION AS CALCULATED FROM HISTORIC EARTHQUAKES

By the use of Estiva's formula (1973) and record of historic earthquakes, the peak acceleration as expected at the CDE project sites were calculated. The following list gives the calculated peak accelerations exceeding 0.05g.

AT TAVERA-BAD

YR	MO	HM	SEC	LAT	LOE	M	DIST	ACC(g)
1911	1006	1016	12.0	19.00N	70.50W	7.0	46.6	0.184
1946	0804	1751	05.0	19.25	69.00	8.1	189.3	0.063
1946	0808	1328	28.0	19.50	69.50	7.9	140.4	0.087
1953	0531	1958	35.0	20.00	70.50	6.8	88.9	0.071

AT ALTO-YUNA

1911	1006	1016	12.0	19.00N	70.50W	7.0	14.5	0.464
1945	0122	0747	53.0	19.50	70.50	6.0	50.5	0.051
1946	0804	1751	05.0	19.25	69.00	8.1	161.3	0.082
1946	0808	1328	28.0	19.50	69.50	7.9	126.9	0.101
1948	0421	2022	02.0	19.25	69.25	7.3	141.9	0.053
1962	1962	0108	22.7	18.40	70.40	6.5	61.6	0.090

2.4. ACTIVE SEISMIC ZONES IN THE DOMINICAN REPUBLIC

Plot of the earthquakes located by the CDE seismograph network during the period of December 13, 1979 through July 17, 1981 (Figs. 4A, 4B and 4C, TECHNICAL REPORT #3) indicated that there are three currently active seismic zones in the Dominican Republic.

Zone 1: A wide seismic zone extends along the northern coast

of Hispaniola. The composite fault solutions of the earthquakes within this zone support the left-lateral strike-slip motion which is in agreement with the nature of the transform movement of Caribbean-North American plate boundary. This is the most active seismic zone among three zones identified.

Zone 2: A cluster of intermediate-depth earthquakes trending northwest was located in eastern Dominican Republic. This seismic zone further extends eastward and connects to the active zone south of Puerto Rico. It is interpreted that this active zone represents the westernmost segment of a mini-plate which is surrounded by the Virgin Island to east and the Puerto Rico trench to north. As the results of collision of the mini-plate and Hispaniola, a subduction zone was formed. Zone 2 dips very steeply, almost 90 degrees to the horizontal (Fig. 4D, TECHNICAL REPORT #3).

Zone 3: Since the CDE seismograph network was installed in December 1979, a number of earthquakes were located in the central Dominican Republic. Majority of the events were located between the Hatillo thrust and the Bonao fault. The depth of the events was ranging from very shallow to up to 120 km deep. Vertical projection of this seismic zone (Fig. 4D, TECHNICAL REPORT #3) illustrates that this zone, similar to Zone 2, also forms a subduction zone. Such an important tectonic feature, which has very serious implication to the seismic risk analysis, was not recognized before the installation of the CDE network.

2.5. INDUCED EARTHQUAKES OCCURRED NEAR THE TAVERA RESERVOIR

In June and August of 1980 two separate swarms of microearthquakes occurred in the proximity of the Tavera Reservoir (Fig. 5E, TECHNICAL REPORT #3). These swarms were observed after abrupt changes of water level occurred. On the other hand, a gradual increase of water level during the period of September through November, 1980, did not produce induced earthquakes, except sporadic events, despite the fact that the highest water level surpassed the peak elevations of two abrupt changes. It was inferred from these observations that the induced seismicity was sensitive to the abrupt changes, especially a rapid draw-down of water rather than or in addition to the water level itself.

3. OPERATION OF THE CDE SEISMOGRAPH NETWORK, JULY 1,1980 THROUGH DECEMBER 31,1983

The distribution of the stations of the CDE network is shown in Figure 3A. Since the initial installation, none of the stations was relocated but the path of radio transmission was slightly modified. The modified transmission paths are illustrated in Figure 3A. Coordinates of the stations were listed in Table 1.

During this period the operation of the network suffered three major setbacks. Two of them were breakdowns of the Computerized Seismic Monitoring System (Sept. 18-Oct. 14,1982 and Aug.23-Oct.26,1983). These damages occurred during thunderstorms and were probably associated with extremely high voltage surges. Of these brekdowns the most extensive damage occurred on August 23,1983 when the power supply of the NOVA 3/12 failed. Following the failure of the power supply three additional computer boards (CPU, Memory, and I/O interface) were subsequently damaged. Another setback recognized at the central recording station was loss of the timing system during the period of November 27,1982 through April 13, 1983.

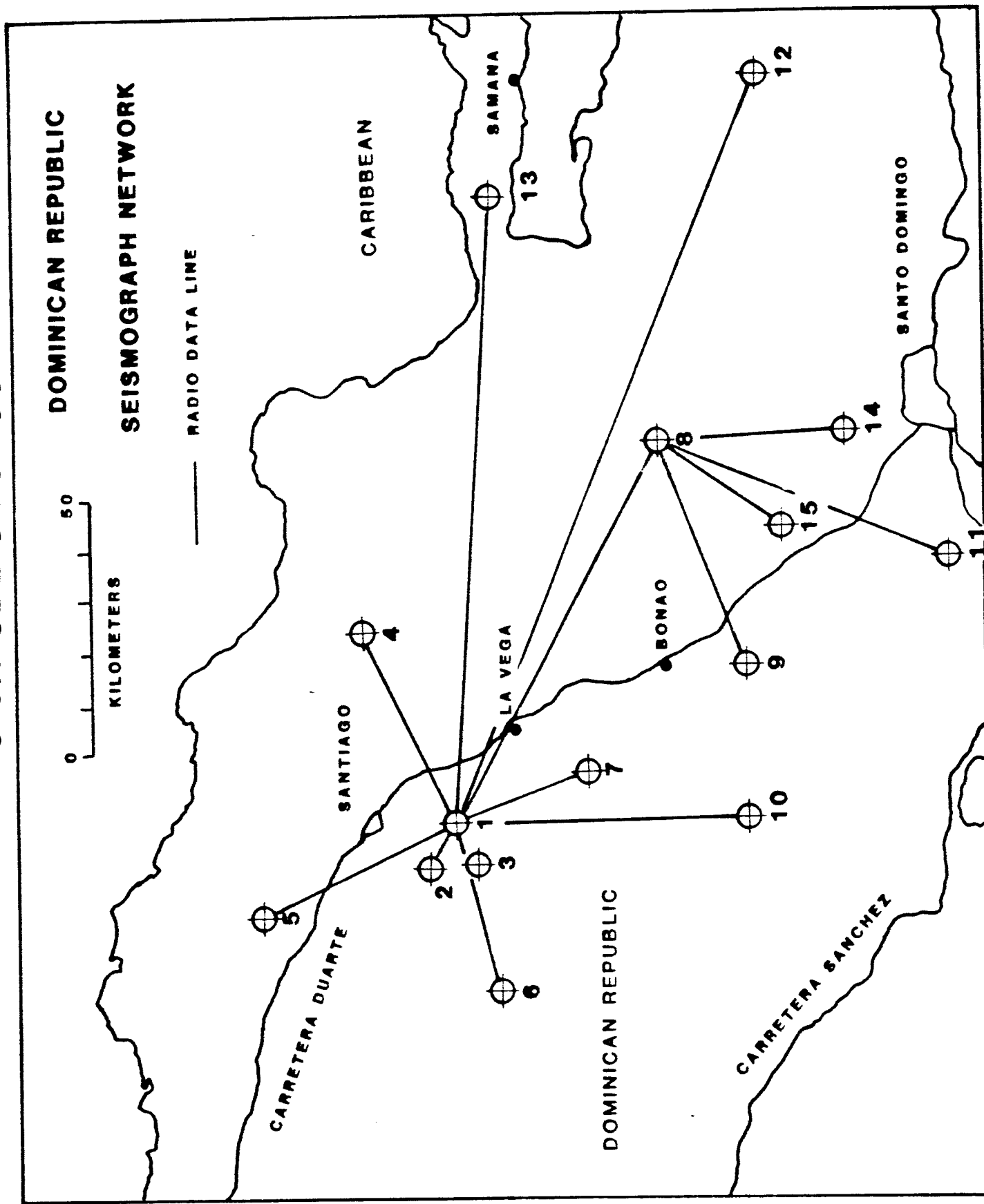
Figure 3B shows the down time of the remote stations. Throughout this period, an average of 7.9 stations were operating. The major difficulty in the maintenance of the remote station signals was the function of the multiplexer/ repeater installed at station 8. A very poor quality reception for some of the stations (9,11, & 14) at point 8 did not allow sufficient input levels to filter cards in the multiplexer. The station 8 PA/VCO input signal contained an overt problem with very high ambient ground noise, created mostly by the diesel generators for the television broadcast station adjacent to the site. Presence of strong radio frequency transmission next to station 8 also affected signal quality. Changing of the transmission paths (stations 12,13, and 15) made some of the signals possible to reach the central recording station. Proposed relocation of the multiplexing station was not realized, however, and left some of the stations almost continuously inoperative (stations 8,9,11,and 14).

Table 1

DOMINICAN REPUBLIC SEISMIC NETWORK

STA #	STA NAME	MAP NAME	MAP #	ELEV	DISTANCE TO CRS (KM)	LATITUDE	LONG	MAP COORDINATES	
								Y	X
1	Loma Juana Nunez	La Vega	6073 I	505 M	---	19.31014	70.69688	35.95	21.73
2	Loma Piedra Clavada	San Jose de las Matas Janico	6074 III	490 M	9.4	19.35185	70.77524	40.85	13.69
3			6073 IV	710 M	8.6	19.27246	70.76886	32.05	14.16
4		Salcedo	6174 III	800 M	40.0	19.46555	70.35776	52.90	57.51
5		Esperanza	6074 IV	660 M	56.8	19.63310	70.85974	71.98	5.02
6		Janico	6073 IV	1450 M	32.1	19.23277	70.99153	27.65	90.78
7	El Salto	Jarabacoa	6073 II	1200 M	26.9	19.08311	70.60517	10.80	31.05
8	Loma La Naviza	Hatillo	6172 I	640 M	81.1	18.95806	70.02061	96.55	92.58
9	Plan Grande	Arroyo Cana	6172 III	940 M	62.6	18.81126	70.41645	80.48	50.75
10		Sabana Queliz	6072 II	2470 M	50.0	18.80828	70.68785	80.38	22.03
11	Loma La Cuchilla de Desboronato	San Cristobal	6171 II	780 M	104.9	18.47056	70.23449	42.55	69.59
12	Loma Pena Alta	Hato Mayor del Rey	6372 III	442 M	150.1	18.78748	69.38112	77.25	59.81
13	Loma Cuesta Mala	Sanchez	6273 I	400 M	117.5	19.24052	69.58870	27.48	38.14
14	Loma Sabana	Los Alcarrizos	6171 I	323 M	105.0	18.64357	70.00783	61.70	93.70
15	Loma Los Siete Picos	Villa Alta- gracia	6172 II	800 M	80.0	18.75000	70.17730	73.50	75.94

FIG 3A CDE SEISMOGRAPH NETWORK



4. DATA ACQUIRED BY THE CDE SEISMOGRAPH NETWORK

4.1. MEASURED ARRIVAL TIME

During the period from December 13, 1979 through December 31, 1983, approximately 2600 earthquakes were recorded. Table 2 shows the listing of the reference time, P and S arrivals, direction of P wave, duration time, and quality factor.

4.2. EPICENTER DETERMINATION

By the use of the computer program HYP071 (Lee and Lahr, 1971), the epicenter, depth, origin time, and magnitude of all the possible events were determined and listed in Table 3. The reason to switch the computer program from previously used DREPC1 to HYP071 is to keep compatibility with the Earthquake Data File compiled by the U.S. Geological Survey in which HYP071 has been used. Table 3 includes combined total of 1303 located events from 1981 through 1983 (1979 and 1980 events were reported in the TECHNICAL REPORT #3). The crustal velocity model used in the epicenter determination was identical to those used in the previous reports and shown in Table 4.

Table 4 Crustal Model used for the Epicenter Determination

No	P-wave Velocity km/sec	S-wave Velocity km/sec	Depth of Layer km
1	5.1	2.94	8.2
2	6.2	3.58	21.2
3	6.6	3.81	43.3
4	7.9	4.56	60.0
5	8.1	4.68	

5. REGIONAL SEISMICITY

5.1. CURRENTLY ACTIVE SEISMIC ZONES IN THE DOMINICAN REPUBLIC

The earthquakes located by the CDE network during the period from 1981 through 1983 were plotted and shown in Figures 5A and 5B. Only accurately determined events with the standard error S less than 0.2 were shown in Fig. 5A, whereas Fig. 5B exhibits all the events. Due to the limited coverage of the network, these plots do not reflect the pattern of unified seismicity in the Dominican Republic.

Perceptivity of the network is highest at the center of the network (especially within the triangle surrounded by the stations 1,2 and 3 where the minimum magnitude of the detection is about 0.5) and rapidly decreases toward the peripheral or outside of the network. At the margin of the network perceptivity is probably magnitude 2.0 and greater. Therefore you have to understand that the seismicity shown in these figures is not uniform in terms of magnitude and it is as if looking through a magnifying glass focused at the center of the network. A more emphasized and detailed image appears at the center and somewhat abbreviated image appears towards the fringe.

Inspection of the distribution of the events in Figs. 5A and 5B show a wide and scattered trend running along the northern coast of Hispaniola (Zone 1) and another distributed along the eastern fringe of Cordillera Central (Zone 3). Due to lack of recording from stations 12 and 13 during the most of this recording period, the activity in the eastern Dominican Republic (Zone 2) was not clearly defined.

The activity in Zone 1 was primarily shallow and illustrates left-lateral strike-slip motion. This zone is comprised along the boundary between North America and Caribbean plates. Being a major boundary, this zone is the most active in the Dominican Republic. Majority of the destructive earthquakes (including $M_s=8.1$) occurred along this seismic zone since 1900. If we compare the activities in the western segment (west of Puerto Plata) and those of eastern segment (especially between Semana and Puerto Plata), one can recognize a significantly higher seismicity in the eastern segment than in the west.

The relative quiescence in the western segment is interpreted either by a priori low seismic zone or temporarily seismicity gap which precedes an impending large earthquake (e.g. Ohtake et al, 1980). Lack of any major historic earthquakes in this segment, however, implies that the western segment is probably aseismic (inactive) zone, rather than showing a temporary seismic gap.

High seismicity in the eastern segment is closely related to the tectonic setting in the Dominican Republic; two boundaries comprised among North America, Caribbean and Mini-plate (see section 2.4.) meet in this area and forms a triple junction within this segment. Usually the seismicity near the triple junction is higher than other segments of the plate boundaries.

5.2. ACTIVITY IN THE CENTRAL DOMINICAN REPUBLIC

Figures 5C and 5D show the distribution of events and faults in the central Dominican Republic. Only the accurately determined earthquakes were exhibited in Fig. 5C and all the events located were shown in Fig. 5D. Most of the events in this zone are located between the Hatillo thrust and the Bonao fault in the southeast and extends towards northwest. In the southwest, the activity is ranging from shallow to the depth over 100 km and forms a subduction zone (TECHNICAL REPORT #3, page 17-19). The length of this subduction zone is estimated at 90 km (see Fig 5A) which is similar to the previous estimate.

The relation between the surface wave magnitude M_s and length of rupture L (in km.) is given as follows (Utsu, 1978):

$$M_s = 2 \times \log L + 3.6$$

Assuming that the entire length of the active zone (90 km) ruptures simultaneously, the largest earthquake which may occur along this zone is estimated at $M_s=7.5$.

The northwestern extension of this zone, especially a linear trend northwest of station 7 is the major concern to the Tavera-Bao project since this linearment passes through only 15 km from the project area. No fault is mapped along this linearment, but the geological map compiled by Barret et al(1969) show a contact of intrusive body to Deposita de Terraza. As typically illustrated by the activity along the Hatillo thrust where the linear exposure of deep-seated igneous rocks coincides with a linear trend of intermediate-depth seismic activity, probably the most active area in this northwestern segment is also at relatively greater depths. If it is the case, the effective distance (hypocentral distance) to the dam site from this linear trend is much greater than the epicentral distance.

There are two alternative interpretations for the formation of the subduction zone. The first interpretation which the author prefers is that the zone 3 in the central Hispaniola is formed as the consequence of the collision of the-nucli Hispaniola and eastern segment. Similar to

formation of active island arc a subduction zone was formed and formation of deep seated molton rock followed. Formation of the second subduction zone, some several million years later than the first, occurred about 80 km east of the first (zone 2) and most of the seismic activity was inherited by the second.

Alternative interpretation is given by Sykes et al (private communication) which considers that the zone 3 is a breakdown segment of larger subduction zone which includes zone 2. In either interpretation, the seismicity of zone 3 is considered to be far lower than those of zone 2.

6. SEISMICITY IN THE VICINITY OF TAVERA-BAO PROJECT AREA

Figures 6A, 6B and 6C depict all the events located in the immediate proximity of Tavera-Bao project area during the year of 1981, 1982 and 1983 respectively. The majority of the activity in 1981 which was distributed along the canal between Tavera and Bao, and north of Bao, may have been originated from explosions used for construction work. The seismic signatures of these events were of typical explosion events; rich in higher frequencies and all upward initial motions. However, we have not received the explosion log during the late 1981, and were unable to positively identify these events as explosion events. Therefore, we left these events on the plot until we confirm them positively as the artificial events by the explosion log.

With the exception of these suspected explosion events in 1981, the activity in the immediate vicinity of the two reservoirs was very quiet throughout 1981 to 1983. The impounding of Bao started in February 1983, but obviously the initial stage of water loading did not affect the seismicity. The water induced earthquakes generally appear when the water depth in the reservoir reached in the excess of 60 meters. Therefore the quiescence in the early stage of water loading of Bao reservoir is not necessary to insure the absence of the water induced earthquakes in the later stage of loading.

A slight increase of the activity south of Bao, mostly along the valley of Rio Baiguague, may have been present during 1983. All of these events are of shallow origin but magnitude smaller than 2.0. Due to small magnitude, the direction of the onset is usually in doubt and we were unable to determine the focal mechanism of the events.

Also a cluster of four events trending approximately north and passing in the proximity of station 2 appeared in 1983. All the events are again shallow and minor.

7. FREQUENCY-MAGNITUDE RELATION

7.1. MAGNITUDE VS DURATION TIME

To determine the size of an earthquake, Gutenberg (1924) defined magnitude of an earthquake as follows:

$$m = \log A(\text{micron})$$

where A is a maximum trace amplitude recorded by Wood-Anderson torsion seismograph and measured at the distance of 100 km. This concept was expanded to an arbitrary distance and the relation was modified to

$$m = a + b \log A$$

This definition was widely accepted by seismologists and gave an important measure to estimate the size and energy of an earthquake.

When a large earthquake occurs, however, the maximum amplitude frequently exceeds the dynamic range of the seismograph and make the system unable to estimate the magnitude. To supplement this difficulty, duration time of an earthquake was used for magnitude estimation. In the previous report, the following empirical formula was proposed for CDE network (TECHNICAL REPORT #3, page 26).

$$M_t = -2.67 + 3.06 \log t$$

where t is the duration time and M_t is the body wave magnitude estimated from duration time. Figure 7A shows the relation between measured M_t by the CDE network and reported m_b by U.S. Geological Survey. The closed circles indicate the data reported in the previous report and the open circle show the data acquired in this report period. The standard deviation of $(M_t - m_b)$ from the combined data is 0.24 and this confirmed that this relation gives an useable estimate for body wave magnitude.

7.2. FREQUENCY VERSUS MAGNITUDE

A standard approach to estimate the recurrence time of

FREQUENCY MAGNITUDE CURVE 1980-1983

FIG 7B

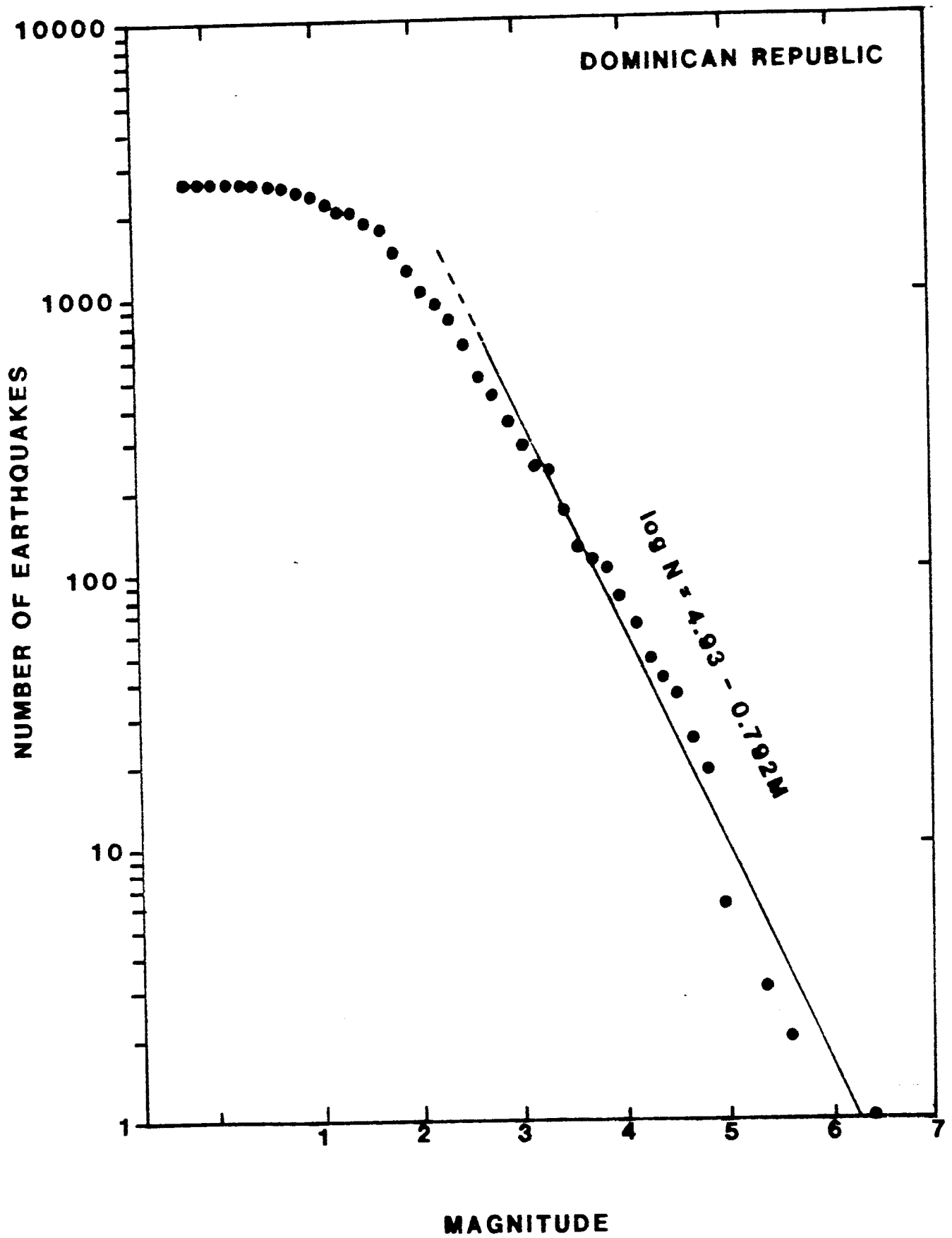
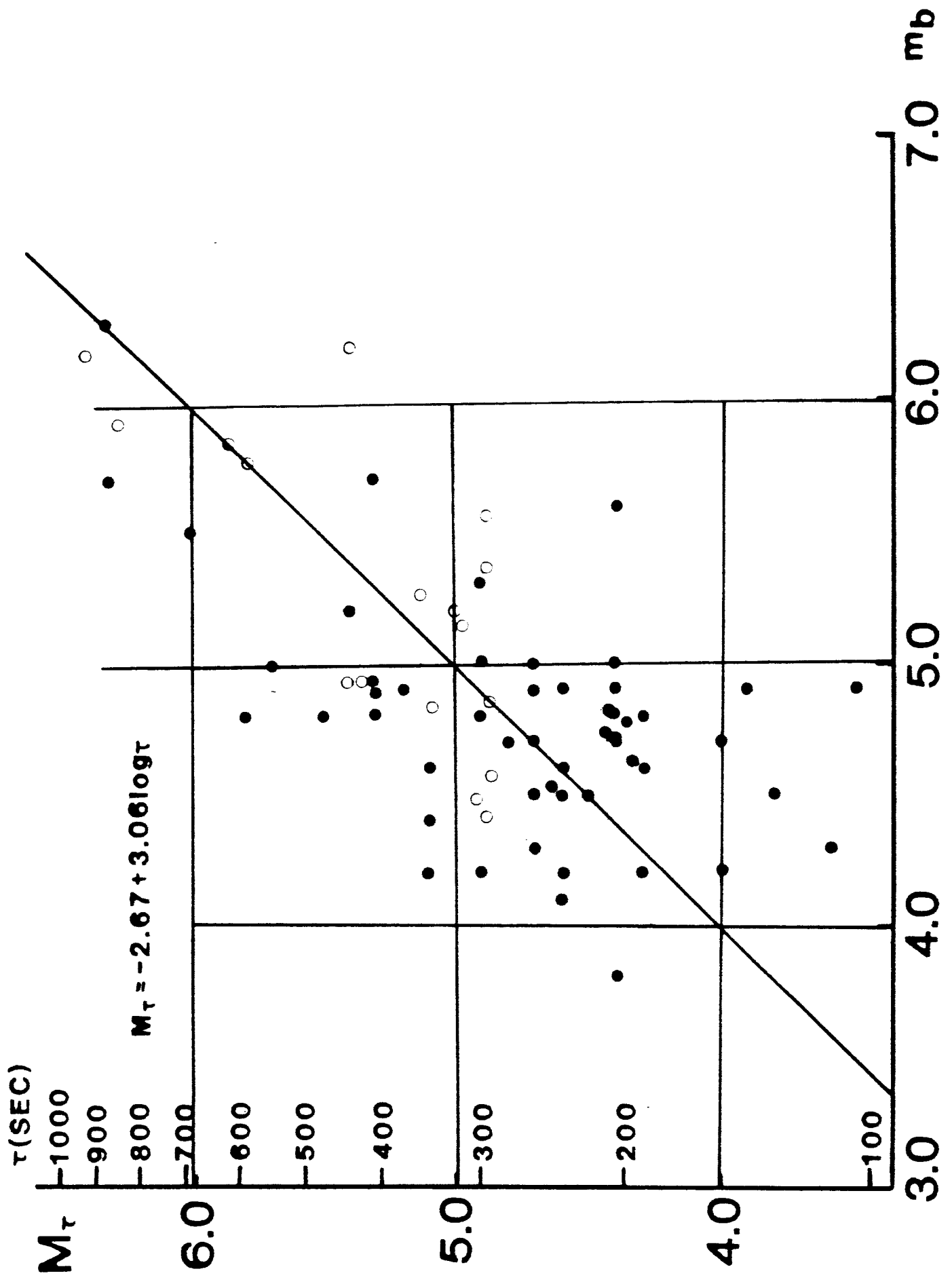


FIG 7A

MAGNITUDE VS DURATION TIME



an earthquake is to construct the relation between the magnitude and the number of earthquakes with given magnitude range. In the previous report two relations were given based on the measured CDE data:

For zone 1 (between 69.75 to 71.50 W):

$$\log N = 2.80 - 0.705 M_t \quad (\text{for 1 year})$$

For zone 3 (La Vega-Bonao-Bani zone)

$$\log N = 1.81 - 0.592 M_t \quad (\text{for 1 year})$$

Combining the data from four years (1980-1983), the frequency-magnitude relation was constructed and shown in Figure 7B. The combined total of 2600 events was accounted for. Instead of dividing it into the separate zones, all the data was handled in one relation as follows:

For the Dominican Republic

$$\log N = 4.93 - 0.792 M_t \quad (\text{for 4 years})$$

or

$$\log N = 4.32 - 0.792 M_t \quad (\text{for 1 year}) \quad (7.2.2.)$$

The recurrence time of earthquakes as a function of magnitude is calculated and shown in Table 5. For the reference two previous calculations for zones 1 and 3 were listed again in the table 5.

Comparison of the count of the large earthquakes actually occurred in and near the Dominican Republic (TECHNICAL REPORT #3, Table 3A, 1900 to 1980) and those calculated from recurrence time derived from microearthquakes (equation 7.2.2) will be interesting to check such an approach is valid in terms of seismic risk analysis. Both the number of earthquakes actually occurred and those calculated from the equation 7.2.2. are sought for four different magnitude ranges and listed in Table 6.

Table 6 shows that the calculated number of earthquakes agrees quite well with those actually occurred and accordingly implies that the recurrence time estimated from the study of microearthquake is one of the useful means on seismic risk analysis.

Table 5 RECURRENCE TIME OF EARTHQUAKE

1. For the Dominican Republic.

$$\log N = 4.32 - 0.792 M_t$$

Magnitude	6.0	6.5	7.0	7.5	8.0
N: number of eq/year	0.37	0.15	0.06	0.02	0.01
1/N: recurrence time	2.7	6.7	16.7	42.6	103

2. For Zone 1.

$$\log N = 2.80 - 0.705 M_t$$

Magnitude	6.0	6.5	7.0	7.5	8.0
N: number of eq/yr	0.15	0.07	0.04	0.02	0.01
1/N: recurrence time	6.8	13.6	27.3	54.7	110

3. For Zone 3.

$$\log N = 1.81 - 0.529 M_t$$

Magnitude	6.0	6.5	7.0	7.5
N: number of eq/yr	0.04	0.02	0.013	0.007
1/N: recurrence time	23.1	42.6	78.3	144

Table 6 Comparison of the number of events actually occurred and those calculated from the Recurrence Time given by 7.2.2

Magnitude Range	# of Events actually occurred	# shown in Table 5 (for 80 yrs)
Magnitude greater than 8.0	1	0.8
Magnitude greater than 7.5	2	1.9
Magnitude greater than 7.0	6	4.8
Magnitude greater than 6.5	9	11.9

8. CONCLUSIONS AND RECOMMENDATIONS

8.1. CONCLUSIONS

- 8.1.1. Two seismic zones, Zone 1 (Septentrional fault and plate boundary) and Zone 3 (Central Dominican Republic) are proved to be currently active in the Dominican Republic. Due to the lack of sufficient coverage in the eastern Dominican Republic, the activity of Zone 2 (eastern Dominican Republic) was not confirmed by CDE network during the period of 1981 through 1983.
- 8.1.2. Zone 1 will be the most potentially dangerous seismic zone in the Dominican Republic. The activity is highest in the eastern half of this zone between Samana and Puerto Plata and expected to have an earthquake with the magnitude in excess of 8.0 approximately every 100 years.
- 8.1.3. Activity in the central Dominican Republic (Zone 3) comprises a subduction zone. Its activity level is far less than those in Zone 1 but maximum magnitude of $M_s=7.1$ with the recurrence time of approximately 80 years is anticipated in this zone.
- 8.1.4. No significant change of seismicity in the immediate vicinity of Tavera-Bao area was recognized during the period of January 1981 through December 1983. However, this current quiescence does not rule out a possibility of water induced earthquakes as the water level in the Bao reservoir continues to rise.

8.2. RECOMMENDATIONS

- 8.2.1. As of December 1983, no significant increase of seismicity in the immediate proximity of the Tavera-Bao was recognized. This is primarily due to the fact that the water level may not have reached the crucial level of triggering induced earthquakes by December 1983. It is recommended that the seismic monitoring should be continued at least 6 to 12 months after the water reached to the highest level since there are several examples that the major principal earthquake occurred well after the end of filling (e.g. Lake Mead, end of filling July 1938, principal earthquake $M_s=5.0$ occurred on May 4, 1939; Kaiba Dam, end of filling August 1963, principal earthquake $M_s=6.3$, Sept. 23, 1963; Menteynard Dam, end of filling April 1963, principal shock $M_s=5.0$ April 25, 1964).

- 8.2.2. At the time of this writing, we learned that the CDE seismic system has been out of operation for past three months (June-August, 1984). To maintain proper function, the seismic system has to be serviced, inspected and calibrated by an experienced personnel with a regular interval.
- 8.2.3. The analysis of the seismic data for 1984 should be continued at the earliest chance. The University of Texas and Dr. Matumoto are very anxious to cooperate on this respect.
- 8.2.4. To avoid the damage to the seismic system, the following improvements are recommended:
A. Improve the protection against thunderstorms: Most of the expensive damages to the recording system were associated with voltage surges of thunderstorms. To prevent further damages by thunderstorms, it is necessary to augment/improve lightning rods, grounding wiring of the central recording station, and as needed to cut off the recording system from power line during the heavy thunderstorms. Also, the installation of lightning arresters for each receiver is mandatory.
- 8.2.5. Review the distribution of stations to relocate or discontinue some of the stations.
- 8.2.6. If CDE plans to operate the seismic network for a prolonged time of period in future, renovation of some of the aging components may be necessary.

9. FIGURE CAPTIONS

- Fig. 3A CDE seismograph network. Shows the distribution of remote stations and radio transmission data link.
- Fig. 3B Down time of the network. Open circle shows the time period when the remote station was operating and closed circle illustrates the period of no operation. The chart shows the period from July 1981 through December 83.
- Fig. 5A Regional seismicity, January 1, 1981 - December 31, 1983 (selected events). Only the accurately located events (with the standard error S less than 0.2) by CDE network were plotted. Scale of the map 1:250,000.
- Fig. 5B Regional seismicity, January 1, 1981 - December 31, 1983 (all events). This figure is the same as Fig. 5A except all the events located by CDE network were illustrated. Scale 1:250,000.
- Fig. 5C Seismicity in the Central Dominican Republic (selected events only). Scale 1:250,000.
- Fig. 5D Seismicity in the Central Dominican Republic (all events). Scale 1:250,000.
- Fig. 6A Seismicity in the vicinity of Tavera-Bao project, 1981 (all events). Scale of the map 1:20,000.
- Fig. 6B Seismicity in the vicinity of Tavera-Bao project, 1982 (all events). Scale 1:20,000.
- Fig. 6C Seismicity in the vicinity of Tavera-Bao project, 1983 (all events). Scale 1:20,000.
- Fig. 7A Magnitude versus duration time of earthquakes. This relation has been used for the CDE network to determine the magnitude from the duration time.
- Fig. 7B Frequency versus magnitude. This figure includes all the events recorded by the CDE network during 1979 through 1983 and used for the calculation of the recurrence time of the earthquakes in the Dominican Republic.

TABLE 2 MEASURED ARRIVAL TIME

This table shows the measured arrival times of the events recorded by CDE network during the period from January 1, 1981 through December 31, 1983.

The data is 80 column card image and formatted as follows:

Col.	Format	Explanation
1	A1	Always showing "D"
2-3	I2	Lower two digits of year
4-7	I4	Month and date
8-11	I4	Hour and minute (GMT)
12-15	I4	Second (to 1/100 sec)
16	A1	Direction of P arrival (station 1 for card 1, station 7 for card 2, station 13 for card 3)
17-20	I4	P arrival measured from the reference time indicated in the column 2-15 (to 1/100 sec) of station 1, 7, or 13
21-24	I4	S arrival of station 1, 7 or 13
25		Blank
26	A1	Direction of P arrival (station 2, 8, or 14)
27-30	I4	P arrival of station 2, 8, or 14
31-34	I4	S arrival of station 2, 8, or 14
35		Blank
36	A1	Direction of P arrival (station 3, 9, or 15)
37-40	I4	P arrival of station 3, 9, or 15
41-44	I4	S arrival of station 3, 9, or 15
45		Blank
46	A1	Direction of P arrival (station 4, or 10)
47-50	I4	P arrival of station 4, or 10
51-54	I4	S arrival of station 4, or 10
55		blank
56	A1	Direction of P arrival (station 5, or 11)
57-60	I4	P arrival of station 5, or 11
61-64	I4	S arrival of station 5, or 11
65		Blank
66	A1	Direction of P arrival (station 6, or 12)
67-70	I4	P arrival of station 6, or 12
71-74	I4	S arrival of station 6, or 12
75		End mark (E for the last card in the sequence)
77-79	I3	Duration time measured in second
80	I1	Quality foactor of the data (1 for best, 5 for poorset, 6 for distant earthquake, 7 for explosion event)

Date	H	M	Sec.	St. 1,7,13	St. 2,8,14	St. 3,9,15	St. 4,10	St. 5,11	St.6,12	C Dur.Q
D79121311364500						5211370				1 354
D79121311364500				144 723						E2
D79121313273000U				282 353		U 275 334				E1 177
D79121313295050				292		244	0252105		496	1 604
D79121313295050				1072263						E2
D79121414515500									825	1 255
D79121414515500				234 810						E2
D79121607282000				112	173					1 406
D79121607282000				107						E2
D79121612543500U				256	U 221	U 154			-61	1 806
D79121612543500U				376						E2
D79121618401000				813		9202112	355 912		1259	1 604
D79121618401000				686						E2
D79121618470000							093			E1 605
D79121618495000							D 81		1000	E1 455
D79121618504600U				-28	021	U -27			U 353	1 207
D79121618504600				376 849						E2
D79121621084000						711	129 672			E1 354
D79121621220500						10402212	481		1371	1 703
D79121621220500				8121752						E2
D79121703072500				632			U 300 563		1041	E1 305
D79121703400500				664		690	4252115		907	E1 704
D79121704301000						D 300 543			D 420 802	E1 125
D79121706145500				603		548			421	E11006
D79121706535500D				437 837	D 402 800	D 462	584			E1 203
D79121707012500D				627	D 709	5312012			D 487	1 803
D79121707012500D				256						E2
D79121711022500				382	400	294			160	11006
D79121711022500				223						E2
D79121721000000				625			505		932	1 304
D79121721000000				249 856						E2
D79121722534500				6311340		D 717	U 230 570			E1 154
D79121801000000										1 605
D79121801000000				1372030						E2
D79121801361500				0504	481				7301462	E1 405
D79121804483500					224				380	1 354
D79121804483500				1001365						E2
D79121804562000						9473490				E11005
D79121810425500						130 982	712			E1 365
D79121811415000				645						E11006
D79121812002000										E1 405
D79121813135500D				072 520	D 043	D 105	U 114		D 284	1 221
D79121813135500				4141121						E2
D79121814453000				479		487	228			E1 406
D79121814455000U				387 484		U 400 512				1 207
D79121814455000				403						E2
D79121816424500				580		5702877	244			E1 455
D79121822282000U				260		U 248	U 3851455		408	1 252
D79121822282000				140 980						E2
D79121900463500D				1801205	275	U 160	U 263		D 333	1 302
D79121900463500D				040 965						E2
D79121906435000U				0203	U0280	U0170			0170	11006
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D79121909343500							00900639			E1 155
D79121910202000D				03030975	D0273	D0346			D0526	1 263
D79121910202000				0217						E2
D79121913441000U				0298	U0293	U0250			U06191075	1 257
D79121913441000				0697						E2
D79121915113500U				0338	U0403				U07201128	1 307
D79121915113500				0760						E2
D79121915544500D				0376	0346	04141030			D0576	E1 254
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D79122012103500				0610						E11006

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D79122715004000			1142	D 5321107	1360	E1 255
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D79122722223000D	6881595	D 784	782	D 98	1091	1 502
D79122722223000D	319					E2
D79122802184000	541		613	U 127	960	1 703
D79122802184000U	3801082					E2
D79122802473500	572		D 575	357	783	1 755
D79122802473500	357					E2
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D80011011080000U	04741120	U0510	U0475		U0739	1 402
D80011011080000U	02300644					E2
D80011016382000	0295					E11305
D80011018552000	00800955					E1 205
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D80011118423000U	0331		0416			E1 855
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D80011119224000	0335					E2
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D80011221325500	0445					E2
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D80011317454000D	0423					E2
D80011321361500	0350		0280		U0385	1 304
D80011321361500D	01900535					E2
D80011423361400			U0300			E11555
D80011503531000					0250	E1 295
D80011509324000		02701212				E1 405
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D80011516074000	- 51					E2
D80011603231000U	0140		- 11		-220	11704
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D80012504545500U0098		D0095	D0188	U0296	E1100e
D80012505153000D0435		D0460	D01550483	D0704	U0668
					1 602

D80012505153000D0150					E2
D80012508451000D01850835	U02321015	U0055		D0455	1 602
D80012508451000D0515					E2
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D80012513175000D01300535	U0059			D0100	1 224
D80012513175000U0200					E2
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D80012619010000D0079	U0118	D-006		D0404	1 253
D80012619010000D-2720281					E2
D80012619012500U0239	U0238				1 247
D80012619012500U0659					E2
D80012619081000		U01710629			E1 224
D80012619090500D0400	U0299		D01820416	U0182	E1 204
D80012619355000			D0047	U0004	E1 305
D80012620521000			U02500615		E1 195
D80012700450000D0533	U0657	U-050	U06981745		1 143
D80012700450000D0667					E2
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D80012704114000			U04541510		E1 655
D80012704243500U04551510	U03791355	U0838	U0555	U0272	E1 232
D80012704422500U0797	U0885	D0439	D09861760		E1 164
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D80012709100000D0165			D-340		E1 345
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D80012803215000U0659	U07272380	U04621907	U1021		1 852
D80012803215000U0400					E2
D80012821592500U0377	U04051315	U0271			1 404
D80012821592500D0030					E2
D80012906460030		163	285		E1 455
D80012908492500		1025	315		E11605
D80012909134000		699	133	6291225	E1 305
D80012910310000 1510			13381338		E11006
D80012912213000 637	652	375	925	862	11202
D80012912213000 427					E2
D80012915024500 507	457		10751784	822	1 407
D80012915024500 920					E2
D80012916150500	4771000	273	213	684	E1 204
D80013000421500 587	527		547		E11006
D80013003150500 9151682	1015	355 647	945	1308	E1 272
D80013007415500 8421724	7821587		258	749	E1 453
D80013013505000 313	258		8821582	617	1 257
D80013013505000 699					E2
D80013015091000 441	4001035	779	719	385	1 302
D80013015091000 395					E2
D80013017253000 609	619	283			E1 705

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D80020615421500	05361248	00600343			E1	175
D80020619004000	04681421				1	205
D80020619004000	0130				E2	
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D80020623492500	U0363				E2	
D80020701562000	0669	05561406		D -20	D05601375	E1 403
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D80020715142500				04860900		E1 155
D80020716424500	0678	06291733		D0030	0618	1 503
D80020716424500	1245					E2
D80020720310500			D02730487		0290	1 283
D80020720310500	09401735					E2
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D80020721031800	0313					E2
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D80020805502000	04180784					E2
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D80020905154500	D0400	U03001318	0895		0085	E1 604
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D80020912504500	0536	0595		00750562		E1 605
D80020913581000	U02130360	U01500298				1 287
D80020913581000	0608					E2
D80020920094500	0245	0265	-025	0552	0518	1 703
D80020920094500	00601459					E2
D80021000054000	04651995	0460	01801518	0758	0710	1 802
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D80021001255000	0995	1070	0510			11005
D80021001255000	0935					E2
D80021001364000	0872	08603732	0292		1195	E11106
D80021002444000		0273			D00350465	E1 255
D80021003350000	U07431510	0788	0688	D0293	D0920	12002
D80021003350000	1115					E2
D80021003495500	05401340	0593		0080	0708	E1 404
D80021004102000	0735			U02780720	1010	E1 355
D80021004211000	U0530	U0556	0465	U0070	0697	1 502
D80021004211000	08872040					E2
D80021004443000	D04401258	04951317	0355	U0065	0675	1 402
D80021004443000	0798					E2
D80021004463500	0827			03730827	1030	E1 405
D80021004581500	06381450	0678		02730748	0850	E1 303
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D80021006373500	D07191515	0753		D0283	0885	E1 404
D80021006530000				01400608		E1 155
D80021007042500				00100490		E1 155
D80021009401500	0728			02830758		E1 355
D80021009413500	0655	0723		01930679	0819	E1 404
D80021017144000				02151082		E1 305
D80021104502000	U01151955	01302030	1450		0335	E1 624
D80021109104000	02900910	0365	-025	D02660920	0640	E1 334
D80021115444500	D0095		0050	-080	0040	E1 366
D80021116135000		0620	D04131325	D0155	0865	E1 354
D80021108075400	D07091651	0816	D0085	0825	1105	1 622
D80021108075400	08501810					E2

D80021504410000						03601231E1	455
D80021505280000 0845	0779	U10752720	U0395		U0629		11103
D80021505280000 1152							E2
D80021506591000				02351130			E1 275
D80021507400500U0435	U0455	U0175	U0744		U0680		12003
D80021507400500U02101815							E2
D80021512324000 05450885	03750530				U0779		E1 152
D80021513475500U01220270	U0068				U0435		1 357
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D83112713395000D0540	U0680	D0215	U0130 U0280		U1160	10502 E2
D83112714220000D07401485	U0810	D08301590	U0260 D1430		U-820	10252 E2
D83112715063000D0455 D0600	U0545	D0440	U-015 D1100	U0610	U0880 D1760	10801 E2
D83112804153000D00150500 U0280	D00700610	D0080	U-005 U0870	U0710		10402 E2
D83113001073000U01801350 D0005	D0320	U0170	U0260	D0640	U0380 U0630	10251 E2
D83113003542500D0405 D0460	U0350	D0320	D0620			10502 E2
D83113008043500U1050 D08703580	D1130	U1030	D04303030			10602 E2
					U-295	E2

D83113022175000U0560	D0700	D0610	D0190	D0900	D0930	10451
D0406					U0800	E2
D83113022293500D0400	U0310	D0390	D0590	D-080	U0460	10451
U0770						E2
D83120100103500U0230	U0220	D0120	U0520	D-200		10702
U0560						E2
D83120103143500D0190	U0170	D0040	D0860	U0470	D-240	10501
U0170						E2
D83120106194000U0130	U0240	D0060	U0180	U0430	U0275	10451
U0000					D0350	E2
D83120109095500D0215	U0250	D0090	D0760	U0640	D-100	10801
D0010					U1480	E2
D83120112515000U0280	D0200	U0180	U0640	U-050	U-030	10701
U0520					D2120	E2
D83120608581000D0270	U0180	D02500980	D0550	D-250		10252
D0780						E2
D83120618402000U0500	U0480	D0530	D0215	D0780		10301
D0320	U1050				U-6400460	2
		U-1401210				E3
D83120709240500U0570	D0590		U0130	D0340		10302
					D16703780	2
		U12503160				E3
D83120713314000D00251030		D00301040	U0050			10202
D-1100790						2
		D-0400920				E3
D83120718554500D0720		D0750	D0630			10252
	D-180					2
		U-070				E3
D83120810044000U02201080	D0320	U03101290	D-360	U03601390	U0720	10351
D0350	D0460				D1280	2
		D07651950				E3
D83120814482000D1205	U1340	D1230	D0960	U1720	U1530	12501
D0900	U0090				U-720	2
		D0660				E3
D83120818121000U02801510	U0400	D0400	D-3600180	U04501650		10301
U0350	U1300				U09402500	2
		U06101930				E3
D83120905080000U07403350	U0960	U0710	U03502720			10501
U0530					U-7000750	2
		U-1001760				E3
D83120916424500D0270	U0270	D0160	U0780	U0700	D0020	10701
U0050					U0480	2
		D-140				E3
D83121002520000U09102070	U08501985	U09402100	U08001770	U03701250		10601
U12502630					D26504940	2
		2000				E3
D83121010504000D05602650	U06802960	D06302720	D-020	U08303100		10551
U03502310	D-410				U-770	2
		D-0401410				E3
D83121013401500D04501630		D05301780	D-240			10253
D04601630						2
		U0570				E3
D83121016010500D02300750	D02200780	D02800840	U02800810	D01300580		E10152
D83121020281500D0000	D0010	D-080	00320	U-060		10702
D0070						E2
D83121110490000U1250	U1460	U1370	U1060	D1810		10701
U1000	D0210				U-540	2
		U0240				E3
D83121122411500D03702820	U05503040	D04002860	U01002220	D06303300		10501
U02052430	D-400					2
		U-350				E3
D83121206522000D01801450	D02701590	D01601400	U0260	U05602190	U0420	10401
D00201110	D00301120				U0500	2

D83121209464500U0450 D0560	U0520	D-0501000 U0420	D0520	D0560	D0740	E3 10651 2
D83121211463500U08703430 U06503020		D0630 U0880	U0570	U1150	U-740	E3 1 2
D83121213213000U0260 D0580	U0150	U-080 U0180	U0730	D-180	U0050	E3 10451 2
D83121215015000D0410 D00401210	D05302130 D0170	D1520 D0340			D0840	E3 10251 2
D83121216215500U0610 U0390	U05603380	D-2500720 U04003020				E3 10552 2
D83121223052000U0230 D0020	U0250	U0630 D0090	U0950	U0750		E3 10352 E2
D83121410312000D0620	U0660	D07001850	D0090	D05101500	U17903720	E2 10251 2
D83121415304000U0350 D0190	U0440 D0180	U1370 U0345	D0440	U0690	D0490	E3 10701 E2
D83121416572000D0580 U0710	D0500	U0470	D1095	D1380	U0650 D0275 U2550	E2 10151 2
D83121422593500U0760 U0660	D0870 D0010	D1550 U0760	U0270	U0960	D1080 D-920	E3 10351 2
D83121500561500U05101720 U03501400	D0620 D03701410	D0080 U05001680	U0615	D0890	D0710 U0880	E3 10401 2
D83121504323000U0360 U0240	D0410	D0290 D0400	U0500	U0570	D0400 D-120	E3 10601 2
D83121511355000D04701080 U0700	U05201210	U-080 D05501230	D0200	U05101210		E3 10201 2
D83121516135000U0560 U0510	D0670	D1310 U0620	U0050	U0760	D0940	E3 10701 2
D83121517101500D0180 U0030	U0130	U-020 D0030	D0810	U0450	D-280 U1730	E3 10651 2
D83121520103500D0930 U0550	D0100	U0550 D0950	U0820		D1190	E3 10251 2
D83121601365500D0700 D0660	U0800	D0180 U0700	U0410	D0990	U0960 D2220	E3 10401 2
D83121612170500U0410 D0460	D0370 D-280	D1330 D0270	D0760	U0060	D0090 D-820	E3 11201 2
		U-240				E3

TABLE 3 LIST OF LOCATED EARTHQUAKES

January 1, 1981 through December 31, 1983

HYP071 program was used to determine the epicenter, depth and magnitude.

Column	Description
1	Sequential number (for each year)
2	Origin time (column 1-4): Year, month, and date
3	Hour and minute
4	Second
5	Latitude (in degree)
6	Longitude (in degree)
7	Depth (in km)
8	Magnitude (Ms)
9	Root mean square error of time residuals in sec.
10	Standard error of the focal depth in km.

	Date	H	M	Sec.	Lat.	Lon	Depth	Mag.	RMS	RMSV
1	810102	741	18.70		18.9922	-70.7173	23.34	0.00	1.03	2.3
2	810102	808	12.52		19.3785	-70.2837	4.55	0.00	0.16	24.2
3	810102	810	45.61		19.3652	-70.2745	2.50	0.00	0.27	61.0
4	810102	906	30.77		19.3762	-70.3037	3.20	0.00	0.12	16.5
5	810102	1011	41.81		19.3838	-70.2923	4.39	0.00	0.14	22.0
6	810103	1134	46.21		19.2903	-69.9578	45.11	2.18	0.05	
7	810103	2245	52.15		18.9842	-71.0083	3.73	0.00	0.15	29.0
8	810103	2253	50.35		18.9557	-71.0490	2.94	0.00	0.16	43.7
9	810104	1433	4.15		19.2808	-70.7307	5.00	2.11	0.01	
10	810105	1309	32.76		19.2860	-70.7333	5.00	1.95	0.00	
11	810106	1535	35.71		19.2863	-70.7372	5.00	1.75	0.00	
12	810209	1531	18.71		19.2932	-70.7105	0.19	0.00	0.83	2.3
13	810210	1347	8.35		19.9502	-69.0592	4.50	0.00	1.92	62.1
14	810210	1414	42.54		19.3118	-70.6985	6.04	0.00	1.14	7.2
15	810211	1339	40.26		19.2692	-70.7258	1.25	0.00	0.39	1.8
16	810211	1542	3.85		19.6960	-70.8970	22.87	0.00	0.38	2.8
17	810212	152	26.70		19.5960	-70.6950	24.38	0.00	0.47	2.9
18	810212	418	18.63		18.8100	-70.6895	5.00	0.00	3.05	53.2
19	810212	707	17.77		18.8705	-70.6895	5.00	0.00	0.26	52.1
20	810212	1445	4.37		19.3118	-70.7488	10.75	0.00	0.34	7.9
21	810213	610	46.31		19.6288	-70.4077	6.46	2.35	0.18	6.5
22	810213	1129	3.73		19.5538	-70.3475	66.27	0.00	1.03	8.4
23	810213	1343	37.26		19.2848	-70.7318	4.78	0.00	0.03	0.3
24	810214	848	16.10		19.0027	-70.5128	17.02	0.00	0.36	3.8
25	810214	1329	49.49		19.2782	-70.7323	4.29	1.84	0.00	
26	810214	1554	54.11		19.2488	-70.7225	1.25	1.99	0.91	26.0
27	810215	603	8.31		18.5115	-70.3468	8.09	0.00	0.13	77.8
28	810215	1437	49.30		18.9103	-69.7707	20.85	0.00	0.41	8.7
29	810216	1604	17.36		19.2908	-70.7358	5.00	2.16	0.00	
30	810217	723	53.24		18.8692	-70.6895	1.77	0.00	0.36	7.9
31	810217	2312	56.70		18.4265	-69.3842	5.00	0.00	0.62	20.1
32	810218	513	29.26		18.7880	-70.6895	5.00	0.00	0.42	9.0
33	810219	1046	10.19		19.0272	-70.9060	21.30	0.00	0.85	7.5
34	810219	1559	2.52		19.2838	-70.7310	5.42	0.00	0.03	0.5
35	810220	441	2.55		19.3557	-70.4182	5.00	0.00	4.72	90.5
36	810220	1426	44.90		19.3118	-70.7492	5.00	1.69	0.33	4.5
37	810221	1848	48.68		19.3118	-70.7202	7.29	0.00	0.20	2.9
38	810222	1816	43.89		18.8130	-70.4182	5.00	0.00	5.71	25.5
39	810222	1906	59.04		19.4672	-70.4577	5.00	0.00	2.81	10.5
40	810223	1359	1.85		19.2808	-70.7307	5.00	1.95	0.01	
41	810224	1353	32.75		19.2808	-70.7308	5.00	1.95	0.01	
42	810224	1655	0.36		19.2860	-70.7333	5.00	1.50	0.00	
43	810225	1409	35.01		19.2853	-70.7290	5.00	1.95	0.01	
44	810226	506	58.88		19.6848	-70.6147	5.00	2.56	0.01	
45	810226	1124	31.72		19.3443	-70.8362	67.57	2.69	1.86	20.6
46	810301	2212	19.88		19.6348	-70.8613	6.50	2.55	0.09	
47	810302	1208	15.30		19.1395	-69.6503	2.50	0.00	0.40	47.6
48	810302	1523	8.74		19.4723	-70.8145	12.39	2.02	1.70	
49	810303	758	47.79		19.2110	-69.8592	5.00	0.00	1.01	07.0
50	810303	953	53.09		19.3118	-70.6985	5.00	2.02	1.92	4.4
51	810304	2132	15.01		19.5508	-70.4713	18.48	2.05	0.35	2.4
52	810305	1338	43.65		19.2808	-70.7308	5.00	1.75	0.01	
53	810305	1851	20.44		18.9480	-70.2777	1.33	0.00	0.11	
54	810306	734	45.44		19.4572	-70.4863	5.00	1.44	0.09	
55	810306	1948	35.46		18.8833	-70.6895	64.00	0.00	1.16	
56	810307	54	38.99		19.4250	-69.7257	41.83	0.00	0.46	
57	810308	357	34.51		19.6368	-69.8935	12.71	0.00	0.51	7.1
58	810308	844	2.68		19.5812	-70.6040	16.33	1.83	0.05	0.4
59	810309	736	13.80		19.6815	-70.6488	33.73	0.00	0.01	0.3
60	810309	805	44.88		19.7767	-70.5633	5.00	2.23	0.04	
61	810310	441	3.13		19.4672	-70.4825	5.00	2.32	0.00	
62	810313	1045	56.64		19.4672	-70.5808	5.00	2.73	1.90	
63	810313	1729	39.78		19.6348	-72.6593	5.00	3.53	0.59	

64	810318	748	46.32	19.2703	-69.4538	5.00	0.00	0.53	41.7
65	810318	1301	58.81	19.2853	-70.7290	5.00	1.61	0.01	
66	810318	1519	10.95	19.5498	-70.7562	25.72	2.07	0.42	3.2
67	810320	1113	16.13	20.0233	-70.2968	2.50	2.44	0.26	29.1
68	810320	1254	36.60	19.9072	-70.3372	17.31	2.33	0.00	
69	810320	1333	17.42	19.9363	-70.3100	21.66	2.19	0.02	
70	810321	929	15.64	19.6348	-70.8613	5.00	2.28	0.97	
71	810321	1959	1.07	19.6063	-70.6472	21.69	1.66	0.21	3.8
72	810322	244	20.77	18.9313	-70.6610	72.61	0.00	0.11	2.2
73	810322	923	6.48	19.6348	-70.6488	20.40	1.86	0.34	9.4
74	810324	2005	58.12	19.4672	-69.7165	2.50	2.52	0.34	63.1
75	810325	2056	12.97	19.5778	-71.2435	8.57	2.25	0.20	
76	810326	848	42.94	19.4672	-70.3595	5.00	0.00	1.13	10.3
77	810326	1812	20.28	18.3357	-70.2767	64.80	0.00	1.22	30.7
78	810326	2120	37.66	19.7895	-71.8487	26.92	2.97	0.27	6.1
79	810331	1307	32.22	19.2782	-70.7315	5.00	1.31	0.03	
80	810401	1206	34.47	19.2742	-70.7705	5.00	1.77	0.18	
81	810402	1239	26.40	19.2742	-70.7642	6.81	1.80	0.07	
82	810402	1458	50.07	19.3118	-70.7637	2.71	1.80	0.23	
83	810402	1538	44.26	18.6085	-70.3650	17.05	0.00	0.02	
84	810403	609	11.32	18.9738	-70.2035	74.21	0.00	0.39	4.9
85	810403	839	30.78	19.4672	-68.9448	32.18	0.00	0.18	14.0
86	810403	1631	18.99	19.2103	-70.0223	30.04	0.00	1.05	9.0
87	810403	1645	49.28	19.2345	-70.9932	5.00	0.00	10.63	47.6
88	810404	958	46.91	19.7980	-71.9842	2.50	2.61	0.06	
89	810404	1240	5.12	19.3118	-70.6985	5.00	1.87	0.39	
90	810406	809	47.46	20.2537	-69.1025	29.58	0.00	0.17	30.6
91	810407	1318	35.14	19.2510	-70.7705	5.00	1.77	0.16	
92	810409	1539	17.15	19.2808	-70.7308	5.00	2.19	0.01	
93	810410	839	23.91	19.1918	-70.6068	20.82	0.00	0.61	2.3
94	810410	1311	29.38	19.2845	-70.7337	4.72	1.95	0.02	0.3
95	810410	1525	52.90	19.2830	-70.7653	7.60	1.81	0.04	0.9
96	810411	549	47.65	19.6245	-70.2162	47.08	0.00	1.28	46.1
97	810411	1729	0.02	19.4672	-70.3595	5.00	0.00	3.70	33.1
98	810412	335	18.15	19.6348	-70.8613	5.00	2.20	0.69	
99	810412	1050	5.46	19.1875	-70.4600	12.99	0.00	1.02	5.9
100	810413	1416	4.32	19.2932	-70.7455	3.60	1.90	1.22	
101	810413	2029	6.29	19.5967	-70.4520	5.00	1.79	0.04	
102	810414	520	24.64	19.5067	-70.8938	5.00	2.41	0.01	
103	810414	1525	55.61	19.5668	-70.5565	1.25	0.00	1.84	6.5
104	810416	619	3.97	19.5817	-70.9315	23.35	2.01	0.33	4.4
105	810416	619	14.74	18.9093	-69.6335	5.00	0.00	1.17	62.3
106	810418	853	0.34	18.6827	-71.0073	76.81	0.00	3.17	43.6
107	810418	1116	15.12	19.5460	-70.9290	19.93	0.00	0.75	4.2
108	810419	2223	41.17	19.1665	-70.8632	28.37	0.00	1.47	14.6
109	810420	553	0.67	18.3748	-71.3882	1.75	0.00	0.55	23.4
110	810421	1603	11.99	19.3118	-70.7665	5.00	1.87	0.05	
111	810423	807	43.31	19.9497	-70.9932	5.00	2.37	0.09	
112	810423	1147	50.78	19.5712	-70.7735	22.53	0.00	0.35	4.8
113	810423	1903	41.06	19.4672	-70.3595	20.47	0.00	0.23	5.8
114	810424	142	31.94	19.1735	-70.6985	5.00	0.00	0.44	
115	810424	310	1.99	19.1573	-70.8150	17.58	0.00	0.20	2.9
116	810424	340	21.86	19.1715	-70.0332	0.38	0.00	0.27	
117	810424	1618	49.27	19.4033	-70.5388	78.80	1.94	0.16	
118	810504	210	2.85	19.5377	-69.9885	12.73	0.00	0.55	14.6
119	810504	917	29.84	18.8618	-70.4305	82.16	0.00	0.27	8.9
120	810504	2141	7.25	19.1373	-71.0078	27.94	0.00	0.73	10.5
121	810505	258	16.45	19.0083	-69.4422	41.45	0.00	0.49	46.0
122	810505	1427	18.76	19.3790	-70.7705	8.32	0.00	0.29	4.9
123	810505	2105	28.16	19.4192	-70.8613	22.49	0.00	1.85	23.1
124	810506	8	43.24	19.0848	-70.6068	5.00	0.00	12.79	13.5
125	810506	2257	51.03	19.0848	-70.6068	5.00	0.00	2.05	79.3
126	810507	838	7.89	19.6348	-71.0085	5.00	0.00	0.88	35.4

379	811105	708	12.56	19.4672	-70.3595	24.42	0.00	0.50	4.8
380	811105	1819	1.74	19.7650	-69.9373	11.96	2.26	1.05	13.2
381	811106	1336	1.79	19.4925	-70.3875	28.70	0.00	0.34	2.5
382	811106	1745	53.23	19.9347	-70.8613	19.77	0.00	1.13	9.9
383	811107	321	39.67	18.3977	-70.4013	22.90	0.00	0.39	6.9
384	811107	339	22.33	17.9385	-70.9045	39.48	0.00	0.90	60.7
385	811107	2206	35.59	19.1777	-72.3657	65.84	0.00	0.24	31.9
386	811108	135	38.99	18.4908	-71.7007	14.88	0.00	0.59	18.6
387	811112	1508	29.74	19.8048	-71.0962	57.93	0.00	0.83	24.6
388	811112	2225	19.17	19.2302	-69.8225	5.00	0.00	0.47	50.6
389	811112	2251	58.08	18.5150	-69.9305	5.00	0.00	1.44	55.0
390	811113	621	19.97	19.2345	-72.4007	23.99	0.00	1.28	50.0
391	811113	929	55.00	19.2683	-70.4775	33.31	0.00	1.07	5.5
392	811114	749	28.09	19.4672	-70.3595	5.00	0.00	7.26	66.1
393	811114	2246	6.64	19.5275	-70.3310	28.68	0.00	0.52	4.2
394	811115	147	12.33	19.6348	-70.8613	5.00	0.00	3.17	19.2
395	811116	45	31.48	19.6348	-70.8613	20.64	0.00	2.89	19.8
396	811119	1341	50.31	18.9632	-70.5918	67.16	0.00	0.54	6.4
397	811120	1606	28.14	19.6348	-70.8613	9.16	0.00	0.42	8.7
398	811120	1847	4.73	19.9758	-70.3445	21.21	0.00	0.51	4.4
399	811120	2320	20.38	19.8178	-71.1553	12.31	0.00	0.31	7.2
400	811121	107	14.25	19.6348	-70.9822	8.99	2.37	0.52	8.2
401	811121	252	31.00	19.7200	-70.5205	5.00	1.65	0.95	22.0
402	811121	903	30.23	20.0622	-70.8613	5.00	2.80	1.61	88.2
403	811122	356	7.20	19.7015	-70.0703	14.29	0.00	0.53	8.1
404	811122	957	24.09	20.1183	-70.1658	14.15	0.00	0.47	4.1
405	811122	1142	13.59	19.6953	-70.1493	12.44	0.00	0.36	5.0
406	811122	2228	2.96	19.5403	-71.1168	2.96	0.00	2.65	
407	811123	629	55.73	19.1702	-70.8967	24.85	0.00	0.38	2.7
408	811124	1811	11.45	19.3118	-69.9942	14.23	0.00	1.21	10.2
409	811124	1851	41.89	19.2523	-69.9915	6.96	0.00	0.50	20.4
410	811125	2259	47.68	18.4797	-69.8018	34.09	0.00	0.27	7.4
411	811128	747	11.87	19.4672	-70.3595	5.00	0.00	1.02	6.7
412	811128	1545	51.22	18.6592	-70.7718	34.23	0.00	1.92	16.9
413	811129	839	40.12	18.5997	-69.9202	5.00	0.00	1.59	87.2
414	811129	1228	21.15	19.1402	-70.2053	21.97	0.00	0.53	28.2
415	811129	1842	14.44	19.4672	-70.3595	5.00	0.00	1.74	15.6
416	811130	1548	32.56	18.1152	-70.6068	91.00	0.00	0.68	36.0
417	811201	1357	25.13	19.4672	-69.6280	5.00	2.48	0.69	15.3
418	811203	1356	21.90	18.7518	-71.0262	1.60	0.00	0.42	30.9
419	811205	1638	42.25	19.5668	-70.2408	14.74	0.00	0.48	3.7
420	811205	1709	53.22	19.4563	-70.8613	35.68	0.00	0.55	3.6
421	811208	1732	13.09	19.6300	-70.7705	5.00	0.00	6.00	64.9
422	811209	245	32.46	19.2550	-70.4625	33.82	0.00	0.95	4.9
423	811209	1318	36.11	18.9290	-70.4773	85.99	0.00	0.39	5.6
424	811210	305	25.85	19.7605	-71.1778	11.94	1.71	0.53	5.2
425	811211	539	49.11	19.2262	-70.8002	22.45	0.00	0.45	2.4
426	811211	1909	5.62	19.6348	-70.8613	5.00	0.00	3.38	44.7
427	811211	1929	41.13	19.4672	-70.3595	12.38	0.00	1.05	41.1
428	811213	158	14.51	18.9610	-70.6068	62.86	0.00	1.34	28.3
429	811214	522	54.70	18.6963	-69.0042	10.74	0.00	0.11	
430	811215	905	17.27	19.6698	-70.8613	10.23	0.00	0.68	9.9
431	811215	1048	42.08	18.8075	-69.3163	32.80	0.00	0.42	12.5
432	811216	1211	19.92	19.4672	-70.3595	5.00	0.00	4.20	19.1
433	811216	2015	43.55	19.3553	-70.5158	14.04	0.00	0.42	2.3
434	811217	1836	42.11	19.4672	-70.3595	5.00	0.00	1.95	9.9
435	811219	826	53.71	19.4618	-69.8508	39.59	0.00	1.15	15.0
436	811219	1031	50.62	18.9980	-70.4257	30.10	0.00	0.32	3.7
437	811222	453	5.52	19.7950	-71.1722	12.91	0.00	0.62	9.4
438	811223	343	25.34	19.3535	-70.7768	5.00	0.00	11.87	65.2
439	811223	1630	54.86	18.6250	-69.4920	40.18	0.00	0.43	54.3
440	811223	2117	31.20	19.1168	-70.6770	11.10	0.00	0.27	2.3
441	811225	457	45.72	19.2822	-70.4400	54.20	0.00	0.50	53.1

127	810507	1408	44.94	19.3118	-70.7470	5.00	0.00	0.64	7.8
128	810509	1605	15.84	19.1643	-70.4948	13.21	2.15	0.85	22.2
129	810509	1743	36.82	19.2768	-70.3885	24.23	0.00	0.80	15.8
130	810509	2140	44.85	18.9735	-70.1787	4.50	0.00	3.13	18.4
131	810510	1605	15.84	19.1643	-70.4948	13.21	2.15	0.85	22.2
132	810510	1743	36.82	19.2765	-70.3902	24.13	0.00	0.77	15.0
133	810510	2140	44.85	18.9735	-70.1787	4.50	0.00	3.13	18.4
134	810512	103	34.12	18.7597	-70.0038	2.50	2.90	0.85	35.6
135	810512	159	24.26	19.4798	-71.0397	33.20	3.40	0.75	
136	810512	430	46.15	19.7168	-70.6720	26.93	2.18	0.39	3.6
137	810512	1930	59.73	19.4672	-69.9357	42.97	0.00	1.98	37.0
138	810513	103	34.12	18.7597	-70.0038	2.50	2.90	0.85	35.6
139	810513	159	24.26	19.4798	-71.0397	33.20	3.40	0.75	
140	810513	430	46.15	19.7168	-70.6720	26.93	2.18	0.39	3.6
141	810513	1930	59.73	19.4672	-69.9357	42.97	0.00	1.98	37.0
142	810521	34	35.19	19.2202	-69.8108	12.04	0.00	0.55	1.9
143	810521	139	43.51	19.5327	-70.1198	11.07	0.00	0.73	3.5
144	810521	706	48.43	19.6348	-70.7427	33.16	0.00	0.62	9.4
145	810521	756	7.88	19.6348	-70.8613	5.00	2.57	3.49	10.2
146	810521	819	20.14	18.4375	-70.8697	5.00	0.00	0.11	8.7
147	810521	1118	1.63	18.9138	-70.1123	73.51	0.00	0.66	4.1
148	810521	1146	39.04	19.8077	-71.0808	14.33	2.15	0.75	7.5
149	810521	1704	40.70	18.8317	-70.5132	77.48	0.00	0.54	3.8
150	810521	2229	22.86	19.4015	-70.4122	27.02	0.00	0.61	10.4
151	810522	34	35.19	19.2202	-69.8108	12.04	0.00	0.55	1.9
152	810522	139	43.51	19.5327	-70.1198	11.07	0.00	0.73	3.5
153	810522	706	48.43	19.6348	-70.7427	33.16	0.00	0.62	9.4
154	810522	756	7.88	19.6348	-70.8613	5.00	2.57	3.49	10.2
155	810522	1118	1.63	18.9138	-70.1123	73.51	0.00	0.66	4.1
156	810522	1146	39.04	19.8077	-71.0808	14.33	2.15	0.75	7.5
157	810522	1408	7.13	19.6987	-70.4148	6.87	0.00	4.00	32.7
158	810522	1431	53.77	19.3127	-70.7577	0.96	1.57	0.28	2.7
159	810522	1704	40.70	18.8317	-70.5132	77.48	0.00	0.54	3.8
160	810522	1934	19.23	19.4212	-70.1257	12.30	0.00	0.85	3.4
161	810522	2229	22.86	19.4015	-70.4122	27.02	0.00	0.61	10.4
162	810522	2322	0.14	18.7143	-69.6237	76.35	0.00	0.70	2.8
163	810522	2325	53.89	18.7215	-69.6138	71.73	0.00	0.67	4.5
164	810523	416	50.54	20.0250	-70.4803	24.96	0.00	1.03	6.1
165	810523	1305	44.27	19.2737	-70.0223	10.39	0.00	1.71	12.3
166	810523	1408	7.13	19.6987	-70.4148	6.87	0.00	4.00	32.7
167	810523	1431	53.77	19.3127	-70.7577	0.96	1.57	0.28	2.7
168	810523	1926	32.07	18.7317	-71.2947	13.17	0.00	3.35	33.7
169	810523	1934	19.23	19.4212	-70.1257	12.30	0.00	0.85	3.4
170	810523	2322	0.14	18.7143	-69.6237	76.35	0.00	0.70	2.8
171	810523	2325	53.89	18.7215	-69.6138	71.73	0.00	0.67	4.5
172	810524	416	50.54	20.0250	-70.4803	24.96	0.00	1.03	6.1
173	810524	1305	44.27	19.2737	-70.0223	10.39	0.00	1.71	12.3
174	810524	1457	9.36	19.7030	-70.3798	73.53	0.00	2.29	9.1
175	810524	1905	45.79	19.0693	-70.5418	60.68	2.38	0.22	9.2
176	810524	1926	32.07	18.7317	-71.2947	13.17	0.00	3.35	33.7
177	810525	1457	9.36	19.7030	-70.3798	73.53	0.00	2.29	9.1
178	810525	1905	45.79	19.0693	-70.5418	60.68	2.38	0.22	9.2
179	810603	2029	19.66	19.3760	-69.9465	5.00	2.36	0.69	01.8
180	810604	632	40.00	19.6785	-70.4312	16.83	0.00	0.59	3.7
181	810604	1256	15.05	19.6348	-70.8613	5.00	2.43	1.00	0.3
182	810604	1330	44.98	18.8653	-70.5352	12.75	1.96	0.85	10.4
183	810604	1427	11.12	19.2925	-70.7383	5.00	1.54	0.05	1.9
184	810604	1954	25.28	20.0877	-70.4778	8.17	3.10	0.30	20.2
185	810605	653	52.85	20.0447	-70.4622	2.50	0.00	0.64	39.8
186	810606	141	37.09	19.8357	-70.3625	32.14	2.30	1.21	21.8
187	810607	1113	24.43	19.6290	-70.5218	21.71	2.59	0.29	2.4
188	810616	1341	4.28	19.3218	-70.7582	1.63	1.75	0.00	
189	810616	1712	27.90	19.4502	-70.7153	21.32	1.82	0.07	1.6

190	810617	343	37.65	18.3638	-70.4628	5.00	0.00	0.33	11.2
191	810617	1411	26.42	19.3268	-70.7647	2.50	1.53	0.10	4.8
192	810617	1554	54.93	19.4040	-70.0763	11.95	0.00	0.50	2.6
193	810617	1718	45.75	19.4258	-70.7650	5.00	2.30	0.01	
194	810617	2057	32.07	18.6140	-70.9050	8.22	0.00	2.01	13.7
195	810617	2157	12.22	19.4730	-70.3500	36.57	1.67	0.13	3.6
196	810618	143	36.21	19.1310	-70.4758	21.86	0.00	2.13	10.4
197	810618	227	53.88	19.0013	-71.1048	18.89	0.00	0.35	1.5
198	810619	2107	57.05	18.4380	-70.8850	54.26	0.00	0.99	4.4
199	810623	1347	1.42	19.2445	-70.7165	5.57	1.72	0.17	1.8
200	810623	1824	49.15	18.7517	-70.3673	14.00	0.00	0.56	15.5
201	810623	2118	21.71	19.6348	-70.8613	5.00	2.00	5.35	8.3
202	810625	712	9.64	19.6972	-70.5135	8.96	2.40	0.60	4.5
203	810625	1415	9.70	19.3118	-70.7517	5.00	1.55	0.23	6.3
204	810627	1517	43.44	19.6383	-70.5953	31.14	1.68	0.31	2.9
205	810627	1523	17.68	19.6303	-70.6050	32.83	2.22	0.19	2.1
206	810627	1539	24.58	19.6552	-70.6005	31.14	2.52	0.23	2.4
207	810701	1801	33.38	19.4553	-70.7705	5.00	2.00	0.30	
208	810704	557	19.71	19.2742	-70.7705	73.55	1.96	0.14	
209	810705	529	44.10	19.3118	-70.6985	5.00	1.78	4.51	13.0
210	810705	1235	21.30	19.2345	-70.9422	5.00	2.42	0.09	
211	810706	30	55.26	19.3118	-70.6985	5.00	1.75	5.57	
212	810706	250	30.46	19.2345	-70.9932	5.00	1.99	2.38	
213	810706	427	46.39	18.6243	-70.5357	33.72	2.01	0.42	67.7
214	810708	2129	33.57	19.1695	-70.8157	19.14	1.27	0.05	0.8
215	810709	846	14.06	20.4660	-71.5680	20.27	2.78	0.43	53.4
216	810711	2223	33.07	19.2345	-71.4103	29.86	1.76	0.17	93.5
217	810712	110	4.93	18.7892	-69.9300	12.25	0.00	5.53	37.0
218	810712	129	6.69	18.7892	-69.3828	5.00	0.00	4.82	47.7
219	810712	321	47.33	18.9458	-71.8292	5.00	2.48	0.32	***
220	810712	328	49.29	19.5300	-70.8272	23.04	2.19	0.17	14.7
221	810712	332	59.50	19.5568	-70.8607	14.01	1.66	0.20	14.1
222	810712	516	33.25	18.8578	-69.8503	42.91	0.00	0.68	4.5
223	810712	553	12.25	19.5540	-70.8478	15.55	1.66	0.11	0.7
224	810712	629	41.30	18.2997	-69.4212	76.94	0.00	2.80	17.1
225	810713	329	10.83	18.0752	-69.9390	2.50	0.00	0.21	11.1
226	810714	840	56.32	18.6477	-69.7527	36.80	2.66	0.20	
227	810715	1705	21.01	18.7517	-70.1790	5.00	0.00	5.30	23.5
228	810716	1256	41.38	19.3217	-70.7575	2.50	1.75	0.04	
229	810716	2211	8.17	18.5517	-71.6533	9.84	0.00	0.31	4.7
230	810717	21	37.40	18.5767	-70.9487	11.90	0.00	1.01	35.3
231	810717	1501	16.50	19.3190	-70.7595	5.00	1.53	0.06	
232	810717	1837	3.18	18.7593	-70.4005	83.59	0.00	0.45	3.6
233	810717	1918	6.62	19.1312	-70.7390	11.58	1.56	0.15	3.3
234	810717	2330	0.21	19.4873	-70.4157	24.00	1.90	0.30	5.5
235	810718	215	42.22	18.8130	-70.2858	11.08	1.32	1.37	36.1
236	810718	1724	10.13	19.7817	-70.6333	5.00	0.00	0.50	7.8
237	810721	1023	30.04	19.0887	-69.6745	41.90	0.00	0.09	
238	810721	1335	5.10	19.3190	-70.7595	5.00	1.53	0.06	
239	810722	1359	24.38	19.4840	-70.7178	11.72	0.00	1.06	10.2
240	810723	6	4.16	18.7592	-70.2208	75.81	0.00	0.52	13.1
241	810723	622	10.23	18.8760	-70.2320	32.67	0.00	0.07	
242	810723	1349	40.48	19.3118	-70.7497	5.00	1.15	0.04	
243	810723	2357	2.26	19.7342	-69.8470	42.91	0.00	0.49	35.7
244	810724	1205	49.12	19.5840	-70.3252	46.69	0.00	1.36	59.0
245	810726	2049	19.90	19.6195	-70.7813	30.67	1.93	0.19	4.1
246	810726	2253	36.70	19.1778	-70.8140	20.84	1.19	0.06	8.1
247	810727	1255	47.56	20.0642	-71.0213	5.00	2.40	0.43	85.5
248	810727	1527	17.22	19.5528	-70.9118	8.38	1.58	0.34	5.6
249	810727	2330	27.70	19.3357	-70.8538	25.48	1.41	0.13	12.7
250	810728	330	3.35	18.7688	-71.8688	2.50	2.68	1.43	98.6
251	810729	1310	35.64	18.6262	-69.6465	72.99	2.86	0.93	29.2
252	810804	2202	22.39	19.1100	-70.6068	26.62	0.00	0.09	

253	810805	539	28.30	18.6743	-71.0053	43.47	0.00	0.25	8.8
254	810803	2158	30.10	19.2347	-70.6302	3.15	0.00	0.36	3.5
255	810809	1336	57.55	19.0848	-70.6068	5.00	0.00	7.44	09.2
256	810810	314	15.52	19.2345	-70.9932	5.00	0.00	2.08	19.4
257	810811	1759	54.80	19.1543	-70.7082	7.60	0.00	0.01	
258	810821	1550	36.37	19.0848	-70.6068	5.00	0.00	2.65	2.4
259	810821	2056	39.45	19.7002	-71.5105	12.21	0.00	0.43	22.5
260	810822	444	57.05	19.5232	-71.0525	5.00	0.00	0.04	
261	810823	1338	53.31	19.5013	-70.3010	30.55	0.00	0.35	3.9
262	810823	1615	59.43	18.5692	-70.1402	57.81	0.00	0.38	12.1
263	810823	1832	6.55	18.8997	-71.0882	5.00	0.00	0.47	
264	810824	837	35.22	19.4583	-70.0028	64.52	0.00	1.43	21.9
265	810825	807	37.94	18.9233	-70.3023	62.67	0.00	1.80	53.3
266	810825	1657	41.61	18.9387	-70.8737	5.00	0.00	0.45	
267	810825	1732	6.91	18.9862	-70.4065	31.09	0.00	2.02	5.0
268	810826	412	58.02	19.2600	-69.4525	38.14	0.00	0.34	35.2
269	810826	820	1.17	18.4362	-69.6870	46.67	0.00	0.45	14.9
270	810826	2320	13.49	18.7952	-70.5157	77.94	0.00	0.16	4.4
271	810827	654	40.93	19.3118	-70.6985	5.00	0.00	1.68	18.8
272	810828	2231	52.59	19.5893	-70.7883	23.74	0.00	0.12	1.0
273	810829	16	57.59	19.3990	-70.1423	56.18	0.00	0.75	39.3
274	810829	851	24.41	17.9198	-69.6805	38.17	0.00	0.60	***
275	810829	1916	31.03	19.3732	-69.9042	20.21	0.00	0.04	9.3
276	810830	1925	14.71	19.6487	-70.7613	29.77	1.86	0.06	2.5
277	810830	1925	53.09	19.6308	-70.7745	28.66	1.85	0.20	4.1
278	810831	649	12.04	19.6083	-71.1695	14.78	0.00	0.18	2.7
279	810831	1324	32.18	19.0848	-70.4487	36.04	0.00	0.64	16.3
280	810901	442	1.54	18.9587	-69.9617	20.37	0.00	0.10	22.2
281	810901	857	41.55	18.9575	-70.5870	39.92	0.00	0.16	3.3
282	810901	1532	2.40	19.3590	-70.4408	70.55	0.00	0.54	46.5
283	810904	221	6.10	18.9983	-69.2512	5.00	0.00	0.21	15.6
284	810904	449	23.02	19.3485	-71.0243	81.25	0.00	0.03	1.9
285	810904	1133	35.83	19.2662	-70.9748	76.23	0.00	0.52	2.2
286	810905	1530	21.47	19.2538	-69.9903	33.02	0.00	0.98	63.0
287	810906	826	48.74	19.6157	-69.9005	67.07	0.00	0.16	8.9
288	810906	1726	7.75	19.2742	-70.8115	20.86	0.00	1.07	8.2
289	810907	329	2.78	19.0762	-70.0210	55.87	0.00	0.27	42.6
290	810907	840	40.55	19.1920	-70.8183	13.54	0.00	0.45	4.3
291	810907	2044	23.08	19.0308	-70.8415	32.81	0.00	0.70	12.3
292	810908	1642	34.67	19.6007	-70.4158	46.18	2.27	0.02	1.3
293	810909	257	39.40	19.4802	-70.8613	5.00	0.00	1.99	16.1
294	810909	755	56.11	19.5177	-70.6238	4.57	1.84	0.70	10.6
295	810909	801	57.94	19.9450	-70.8613	21.50	1.71	1.10	21.0
296	810910	851	49.45	19.6348	-70.8613	5.00	1.80	1.52	
297	810912	1259	5.49	18.5633	-69.7860	35.28	0.00	0.60	17.2
298	810914	1244	54.36	19.0848	-70.4025	55.25	0.00	0.45	7.8
299	810914	1445	28.72	19.2345	-71.1575	41.15	0.00	2.06	30.3
300	810915	511	43.07	19.1077	-70.1530	66.42	0.00	0.33	9.2
301	810915	2320	13.49	18.7952	-70.5157	77.94	0.00	0.16	4.4
302	810920	148	47.89	19.4672	-70.4867	13.95	2.56	1.34	
303	810920	710	34.47	19.5938	-70.6535	23.93	2.05	0.08	1.2
304	810920	1055	36.60	18.9770	-70.8215	75.91	0.00	0.40	
305	810920	2015	35.60	19.1925	-70.7690	14.56	0.00	1.31	13.2
306	810921	237	15.93	19.9887	-71.0617	5.00	2.17	0.30	
307	810921	315	28.34	19.0695	-70.8742	66.95	0.00	0.27	3.4
308	810921	803	45.70	19.0905	-72.1612	68.83	0.00	1.78	
309	810921	1024	10.73	19.4760	-70.8613	5.00	2.17	1.23	
310	810921	1118	49.59	19.4710	-70.8613	5.00	2.04	1.27	
311	810921	1747	37.13	19.1595	-70.3745	43.05	0.00	0.68	26.0
312	810921	2011	36.86	18.8313	-70.7142	13.74	0.00	0.32	7.3
313	810922	1338	53.31	19.5013	-70.3010	30.55	0.00	0.35	3.9
314	810923	845	16.31	19.3118	-70.6985	5.00	2.61	2.19	
315	810926	803	19.93	19.8130	-71.1592	10.91	2.16	0.13	3.5

316	810927	418	44.55	19.7423	-71.0370	8.30	1.80	0.01	
317	810927	1126	48.87	19.2108	-70.6985	5.00	0.00	2.03	18.8
318	810927	1607	25.73	19.2745	-70.7705	54.65	1.81	1.33	15.2
319	810927	1701	3.94	19.4672	-70.3595	5.00	0.00	2.36	28.6
320	810927	1709	33.56	19.4400	-70.6755	4.28	1.25	0.26	
321	810929	1944	4.06	19.3473	-70.8723	2.50	0.00	0.62	3.1
322	810930	1821	24.20	19.1480	-70.6572	16.28	0.00	0.26	2.5
323	811002	1612	24.11	19.3895	-69.3828	5.00	0.00	15.28	85.0
324	811002	2018	41.33	19.5247	-70.6138	31.52	0.00	0.46	4.8
325	811002	2152	21.30	19.2692	-70.7413	5.00	0.00	0.37	2.1
326	811003	108	6.85	19.3383	-71.0737	5.00	0.00	0.40	7.2
327	811003	446	43.91	19.3118	-70.6985	5.00	2.40	9.27	28.4
328	811003	857	25.86	19.5682	-70.7892	34.11	0.00	0.61	20.9
329	811003	1502	26.06	19.3268	-70.7620	2.99	1.33	0.08	1.3
330	811003	1707	38.07	19.2742	-70.7705	83.38	1.99	0.80	
331	811003	1742	11.47	18.7892	-69.6732	5.00	0.00	4.58	67.8
332	811004	421	48.04	18.9120	-70.4555	82.43	0.00	0.18	4.7
333	811006	1950	46.88	19.0848	-70.6068	5.00	0.00	7.64	40.6
334	811007	500	3.39	19.3118	-70.6985	5.00	2.03	3.22	50.7
335	811010	803	39.79	19.6632	-70.7382	33.33	1.66	0.00	
336	811010	1449	47.92	18.9408	-71.3015	11.76	0.00	0.17	3.6
337	811010	2300	45.26	19.3788	-69.4473	41.36	0.00	0.33	79.1
338	811011	323	39.11	19.7738	-71.0542	5.00	1.28	0.00	
339	811011	747	6.32	19.8068	-71.0412	5.00	1.29	0.75	
340	811011	801	33.20	19.3118	-70.6985	5.00	2.42	3.38	32.0
341	811011	1456	21.92	19.6877	-71.0203	11.85	1.64	0.07	1.7
342	811011	1652	11.52	18.4485	-70.5800	5.00	2.59	0.34	69.4
343	811011	2355	27.77	19.4970	-70.3940	20.52	1.66	0.24	2.1
344	811012	56	54.98	19.0635	-71.3652	30.11	2.01	0.55	4.9
345	811012	120	39.70	19.2787	-70.8120	19.66	0.00	0.57	2.7
346	811012	1418	40.47	19.1087	-70.6278	13.15	0.00	0.11	1.5
347	811013	350	24.57	18.7943	-70.4388	80.74	0.00	0.07	4.0
348	811018	433	26.54	18.7153	-70.8755	19.98	0.00	0.68	86.4
349	811018	451	58.37	19.8362	-70.8613	52.71	0.00	0.89	31.2
350	811018	1254	58.73	18.6807	-70.4260	70.07	0.00	0.16	7.9
351	811018	1728	51.50	19.5473	-70.7573	19.43	1.46	0.01	0.3
352	811019	1523	7.07	18.4552	-70.1663	31.94	0.00	0.17	10.4
353	811019	1902	21.74	19.3118	-70.6985	5.00	2.21	5.95	25.2
354	811020	1111	41.80	19.3118	-69.3220	5.00	3.00	1.55	
355	811020	1119	11.70	19.5243	-70.7308	25.45	1.58	0.09	1.8
356	811021	11	50.23	18.6908	-70.3173	5.00	2.68	1.38	***
357	811021	1520	57.19	19.4583	-70.6985	5.00	2.00	0.09	
358	811021	1700	50.08	19.0848	-70.6068	5.00	0.00	10.45	63.4
359	811021	2122	7.55	19.7013	-71.0455	0.67	1.88	0.03	
360	811023	838	22.12	19.4000	-70.7535	28.41	0.00	0.00	
361	811024	244	31.37	19.0452	-70.7545	1.25	0.00	0.63	3.8
362	811025	2122	15.74	19.3963	-70.6687	33.77	2.33	0.01	
363	811026	1537	20.18	19.8130	-71.0547	5.00	1.45	0.65	
364	811026	1551	35.86	19.0608	-69.7572	76.99	0.00	0.42	20.3
365	811027	952	18.91	19.0848	-70.3417	64.87	0.00	0.22	
366	811027	1414	11.97	19.1765	-70.8035	24.32	0.00	0.32	3.3
367	811029	447	15.89	19.4378	-70.4185	39.31	2.50	0.33	4.9
368	811029	519	28.85	19.6348	-70.8613	5.00	2.54	3.13	93.9
369	811029	550	14.01	17.7972	-70.8102	5.00	2.67	0.16	
370	811029	751	3.86	19.3593	-69.4763	41.82	0.00	0.69	91.9
371	811029	1915	30.76	19.1117	-70.8113	28.11	1.37	0.00	0.1
372	811101	2256	38.36	20.0360	-70.1653	21.44	2.42	0.52	10.7
373	811102	1931	40.47	18.9042	-70.2135	7.19	0.00	0.57	19.4
374	811102	2129	43.57	18.8100	-70.7737	86.68	2.93	1.98	29.3
375	811103	5	29.32	19.2133	-70.2203	47.37	0.00	0.38	4.9
376	811103	707	4.93	18.4092	-71.2628	85.33	0.00	0.84	95.3
377	811103	1028	8.79	20.7215	-70.4448	6.82	0.00	0.47	9.9
378	811104	631	53.82	19.4672	-70.3595	5.00	0.00	8.97	34.9

442	811225	1238	29.01	19.3118	-70.5148	12.36	2.16	0.04	
443	811225	1926	23.02	19.6137	-70.6547	38.97	0.00	0.30	3.4
444	811227	604	16.51	19.4753	-69.8755	14.76	0.00	0.52	6.4
445	811227	738	58.67	19.6113	-71.5350	22.98	0.00	0.40	4.1
446	811227	1105	58.92	19.8097	-70.6495	31.67	0.00	0.78	5.7
447	811229	932	49.57	19.2252	-70.8173	25.32	0.00	0.40	3.2
448	811229	2344	55.61	19.4672	-70.3595	11.54	0.00	0.95	27.9
449	811231	1330	7.42	19.0298	-70.3927	10.87	0.00	1.11	51.5

1	820101	1909	45.64	19.6742	-70.8833	77.64	0.00	0.97	13.2
2	820102	605	19.39	19.5055	-70.6483	32.81	0.00	0.66	5.1
3	820102	616	9.35	19.5653	-70.6433	27.95	0.00	0.37	2.0
4	820102	730	10.33	18.6272	-69.7647	40.17	0.00	0.62	14.6
5	820103	104	5.27	18.9737	-70.2978	58.39	0.00	0.59	10.2
6	820103	1418	46.59	19.0848	-70.2867	79.39	0.00	0.35	30.9
7	820103	1619	19.99	19.3535	-70.7768	5.00	0.00	5.82	30.2
8	820103	2013	5.81	19.0712	-70.9428	10.21	0.00	1.05	8.2
9	820104	351	23.48	19.1623	-70.6842	24.73	0.00	0.60	4.0
10	820104	622	48.84	19.6348	-70.9862	78.83	0.00	1.02	35.6
11	820104	1820	55.38	18.5477	-69.4498	16.45	0.00	1.04	16.5
12	820105	322	52.39	19.2585	-69.9260	62.10	0.00	0.63	5.6
13	820105	1026	14.71	18.9920	-70.7768	54.42	0.00	2.10	20.8
14	820113	105	25.35	19.6532	-70.3770	21.60	0.00	0.31	3.4
15	820113	2215	32.13	18.5552	-69.7027	43.59	0.00	0.67	12.4
16	820114	625	57.10	19.4672	-70.3595	5.00	0.00	4.82	45.5
17	820114	959	44.73	19.4672	-70.3595	5.00	0.00	1.09	6.8
18	820114	1154	25.15	19.8517	-70.8613	89.77	0.00	1.53	76.8
19	820115	401	36.91	19.0848	-70.6068	12.69	0.00	0.95	11.4
20	820116	32	14.43	19.4058	-70.6533	19.02	1.51	0.83	13.2
21	820116	226	15.87	19.4672	-70.0885	29.64	0.00	0.86	63.6
22	820116	504	58.50	20.4803	-70.4247	5.00	3.06	1.04	19.8
23	820116	621	46.42	19.1542	-70.6513	12.84	0.00	0.71	4.5
24	820116	1348	20.98	18.6343	-70.1875	72.73	0.00	0.17	3.4
25	820118	449	43.14	19.5087	-70.5240	10.52	0.00	0.45	2.4
26	820118	543	21.37	19.6547	-70.7287	29.66	0.00	0.41	3.8
27	820119	1509	49.05	19.4445	-70.5525	23.05	0.00	0.38	2.5
28	820119	1530	50.99	18.9893	-70.5565	30.92	0.00	0.30	2.7
29	820119	1945	41.68	19.2837	-70.3595	2.50	0.00	1.42	22.4
30	820120	2019	1.78	18.9307	-70.2095	5.00	0.00	0.35	25.5
31	820128	2035	54.62	19.2422	-69.7067	49.66	0.00	3.68	33.1
32	820129	350	33.45	18.5627	-71.6183	4.09	0.00	0.34	20.4
33	820129	1034	46.77	19.3393	-69.8590	1.57	0.00	1.37	21.8
34	820129	1112	50.28	19.0848	-70.6607	30.92	0.00	0.63	5.2
35	820129	1532	31.00	19.7253	-70.8613	25.82	0.00	0.46	3.4
36	820129	1859	22.41	19.2947	-70.4418	34.32	0.00	0.09	1.2
37	820129	2237	5.71	19.5350	-69.6353	44.57	0.00	1.48	54.9
38	820131	1606	44.67	19.3535	-70.7768	5.00	1.98	12.23	81.9
39	820202	1212	48.39	17.9728	-71.7475	13.72	0.00	0.33	86.4
40	820202	1343	11.59	19.2422	-69.7093	63.02	0.00	2.25	50.7
41	820203	651	33.38	19.7690	-69.8640	5.00	0.00	3.00	30.2
42	820203	1008	25.89	18.2198	-71.6183	16.13	0.00	0.22	45.1
43	820203	1716	49.87	19.6285	-70.6012	22.09	0.00	0.42	3.3
44	820204	1744	6.77	18.9695	-70.1132	11.48	0.00	1.56	35.8
45	820206	1101	59.58	19.7932	-71.1975	15.00	0.00	0.35	3.5
46	820206	1522	1.00	19.0487	-70.4422	31.13	0.00	1.40	5.8
47	820206	2038	23.47	19.1110	-70.7460	4.22	0.00	0.47	4.0
48	820206	2350	50.96	19.6683	-70.3595	10.99	0.00	1.13	19.1
49	820209	2125	11.44	19.3297	-70.3595	12.46	0.00	0.65	8.2
50	820210	204	53.32	19.3535	-70.7768	49.82	0.00	9.57	01.2
51	820210	238	2.86	19.4108	-70.6193	33.25	0.00	0.48	4.4
52	820210	1956	49.72	18.9597	-70.0223	5.00	0.00	10.15	11.1
53	820210	2045	14.74	18.6368	-70.6163	82.65	0.00	0.35	9.6
54	820211	1404	43.88	19.2010	-70.9413	9.45	0.00	0.22	1.3
55	820211	2115	38.34	18.7838	-70.3053	63.89	0.00	0.48	8.0
56	820212	58	2.35	19.6305	-71.0260	23.76	0.00	0.24	3.2
57	820213	812	32.09	19.3535	-70.2452	14.56	0.00	1.88	15.2
58	820213	839	24.90	19.1600	-70.7580	32.29	0.00	0.30	2.3
59	820213	1002	43.83	19.5482	-69.7073	20.28	0.00	0.55	34.4
60	820214	233	23.04	18.8170	-70.3527	12.97	0.00	0.91	6.4
61	820214	457	32.10	19.0707	-71.2725	40.09	0.00	1.15	44.0
62	820216	1429	30.19	19.2347	-70.4045	32.59	0.00	0.79	8.3
63	820216	2103	37.14	19.6348	-71.0023	13.44	0.00	2.01	23.3

64	820219	24	3.48	19.3755	-68.9765	5.00	3.34	0.15	68.9
65	820220	740	35.47	19.4672	-70.1127	11.27	0.00	1.35	10.1
66	820220	829	14.59	19.7718	-70.3160	21.64	0.00	0.50	3.7
67	820221	339	26.93	18.8768	-70.6517	72.98	2.06	0.25	3.7
68	820226	2112	45.67	19.1662	-70.6572	27.21	1.97	0.32	2.9
69	820227	1145	23.60	19.9805	-70.8613	5.00	2.58	0.93	44.5
70	820228	524	29.84	19.2982	-71.0042	29.26	1.66	0.14	1.4
71	820228	840	38.46	18.7798	-71.1502	33.57	3.01	2.85	48.6
72	820228	1947	24.41	19.4672	-70.3595	5.00	1.88	0.83	17.0
73	820301	1904	16.86	19.4327	-71.3888	46.81	3.15	0.40	
74	820302	305	9.11	19.9677	-70.8860	12.27	2.27	0.39	4.8
75	820302	322	47.91	19.2060	-70.8213	26.21	1.84	0.18	2.4
76	820302	1506	11.07	19.4672	-70.3595	12.52	2.24	0.96	50.1
77	820303	29	42.64	19.5805	-70.7080	21.55	2.34	0.38	3.2
78	820304	904	24.06	19.2300	-69.9130	18.32	0.00	1.12	17.1
79	820304	1107	17.45	19.4672	-70.4068	13.08	2.11	0.49	
80	820304	1144	53.87	19.6348	-72.1908	37.89	4.85	0.97	***
81	820304	1309	49.34	19.6957	-70.6440	21.77	1.82	0.11	1.3
82	820304	1700	12.46	19.4672	-70.3595	5.00	2.71	6.84	64.0
83	820304	1811	53.01	19.7013	-70.7578	30.90	2.07	0.32	4.1
84	820304	1822	22.33	19.6348	-70.8613	5.00	2.81	10.88	48.1
85	820305	1133	26.87	19.6348	-70.8613	5.00	2.34	3.45	52.3
86	820306	526	37.43	19.7238	-70.5510	22.11	0.00	0.32	2.5
87	820306	822	29.66	19.4672	-70.3595	5.00	0.00	7.14	48.4
88	820306	941	53.77	19.0848	-70.6068	5.00	0.00	7.41	35.5
89	820306	1622	9.67	18.8347	-70.4293	85.97	0.00	0.36	5.9
90	820307	1238	15.34	19.0848	-70.2357	13.79	0.00	0.46	50.1
91	820308	1126	58.38	19.0302	-70.4320	30.07	0.00	0.38	5.8
92	820309	915	33.82	19.4672	-70.3595	5.00	0.00	4.52	40.9
93	820309	1224	39.16	18.9823	-70.6708	31.06	0.00	0.76	13.6
94	820310	633	49.67	19.0848	-70.6068	5.00	0.00	7.39	38.4
95	820310	2210	59.76	19.0848	-70.6068	5.00	0.00	11.75	74.4
96	820311	611	11.81	19.2422	-69.1725	22.66	0.00	4.99	67.6
97	820311	1832	46.43	18.7822	-70.1608	13.92	0.00	0.46	7.0
98	820311	1954	16.64	19.1442	-70.1223	12.69	0.00	2.35	22.7
99	820312	1052	58.96	19.2183	-70.4693	18.71	0.00	0.25	1.1
100	820312	1117	44.34	19.6348	-70.9417	17.58	0.00	0.64	5.6
101	820316	808	10.61	18.2108	-70.7328	12.81	0.00	1.39	64.5
102	820316	1148	14.09	19.2793	-69.9600	13.84	0.00	0.52	3.0
103	820316	1815	43.33	19.2422	-69.8797	5.00	0.00	4.56	24.6
104	820316	2030	25.48	19.0677	-70.7652	3.05	0.00	0.31	1.4
105	820317	25	2.84	18.7310	-71.2882	2.50	0.00	0.53	41.1
106	820317	1003	49.04	18.8313	-70.8867	9.39	0.00	1.28	18.5
107	820317	1118	32.26	19.7603	-70.4305	11.92	0.00	0.55	3.9
108	820318	1904	35.94	18.1223	-69.5440	33.53	0.00	2.59	60.7
109	820320	140	23.37	19.2345	-70.9932	5.00	0.00	4.59	32.7
110	820321	140	17.97	18.0870	-71.9617	21.27	0.00	0.12	74.7
111	820321	1522	23.94	19.2422	-69.5903	5.00	0.00	5.35	32.6
112	820322	935	25.54	19.2422	-69.8485	5.00	0.00	5.89	17.8
113	820322	1348	57.96	19.0848	-70.6068	63.86	0.00	1.15	15.8
114	820324	1918	43.84	19.6348	-70.8613	14.49	0.00	3.96	66.8
115	820324	2213	56.89	19.3018	-69.3832	8.65	0.00	3.99	35.9
116	820326	1256	19.77	19.2325	-71.1275	38.58	0.00	0.01	
117	820326	1353	22.57	19.6348	-70.8613	21.33	0.00	0.82	12.3
118	820326	1531	15.94	20.2112	-70.8613	14.64	0.00	9.09	04.3
119	820326	1543	7.26	19.4218	-70.1602	14.26	0.00	2.96	65.8
120	820326	1842	8.84	18.9245	-70.7287	0.09	0.00	0.66	2.6
121	820326	2253	31.90	18.5257	-71.2258	41.96	0.00	1.77	20.9
122	820329	1549	11.55	19.4572	-70.2210	42.52	0.00	1.95	10.2
123	820329	1617	29.92	20.1735	-70.5942	46.43	0.00	1.34	15.4
124	820329	2152	58.29	18.8640	-72.3127	55.55	0.00	4.82	10.7
125	820329	2341	2.46	19.4508	-70.4017	41.43	0.00	0.45	2.9
126	820331	1408	36.54	19.0767	-70.5448	31.98	0.00	0.44	2.9

127	820331	2203	56.91	18.5992	-69.8817	41.92	0.00	0.36	30.7
128	820401	1024	30.69	19.4475	-70.3897	23.75	0.00	1.29	6.9
129	820415	1548	9.68	19.1698	-70.3582	10.44	0.00	0.73	5.0
130	820416	1	2.51	19.7142	-69.5903	5.00	0.00	3.03	67.9
131	820416	626	24.69	19.2422	-69.5903	5.00	0.00	13.68	85.5
132	820416	900	48.87	19.6348	-70.8613	5.00	1.58	1.66	10.2
133	820416	1322	29.26	19.1120	-70.4867	20.43	0.00	0.08	3.7
134	820417	2357	4.61	19.8348	-70.6473	13.90	0.00	0.87	27.6
135	820418	1437	57.56	19.3312	-70.2763	21.68	0.00	2.75	15.5
136	820418	1503	10.20	18.8895	-70.6527	72.05	0.00	0.77	6.5
137	820418	1953	24.30	19.5445	-71.2970	11.84	0.00	2.40	15.9
138	820419	253	17.47	19.7050	-71.1237	11.31	1.66	0.12	2.7
139	820419	343	23.43	19.4003	-70.8177	8.41	1.56	0.62	
140	820419	1045	15.22	19.1487	-70.7680	19.94	0.00	0.07	1.0
141	820419	2302	41.80	19.1315	-70.3593	45.28	0.00	0.88	9.6
142	820421	358	8.36	19.6813	-71.1090	14.59	0.00	0.32	3.4
143	820421	533	12.04	19.6928	-71.1355	12.42	0.00	0.67	4.6
144	820421	539	15.79	19.7117	-71.1195	12.28	1.47	0.45	42.1
145	820421	605	56.50	19.6848	-70.9877	19.87	0.00	0.83	15.4
146	820421	814	26.78	19.5643	-69.9457	13.64	0.00	1.20	10.8
147	820421	1224	59.73	20.2265	-69.7427	5.00	0.00	8.85	88.7
148	820422	318	17.43	20.1650	-70.8613	74.96	0.00	2.37	43.0
149	820422	1116	23.88	19.6977	-70.6538	22.57	0.00	0.40	3.8
150	820422	1252	54.45	19.2422	-70.0173	3.00	0.00	3.13	12.6
151	820422	1304	42.99	19.0190	-70.6068	11.88	0.00	2.49	38.9
152	820422	1322	19.80	19.3797	-70.3755	38.66	0.00	1.24	5.9
153	820422	1528	20.81	19.4380	-70.4048	30.87	0.00	1.55	8.3
154	820422	1547	48.51	19.2422	-69.5108	8.44	0.00	6.12	17.7
155	820423	214	19.12	19.1025	-70.5870	24.96	0.00	0.31	4.3
156	820423	543	50.11	19.1292	-69.9780	2.38	0.00	0.79	7.8
157	820423	718	53.29	19.0667	-70.6313	83.30	0.00	1.09	15.9
158	820423	2330	57.58	19.6348	-70.8613	5.00	0.00	8.50	8.1
159	820424	852	39.77	19.4028	-69.5797	34.31	0.00	0.50	9.7
160	820425	120	19.05	19.0188	-70.0895	22.19	0.00	0.65	25.8
161	820425	124	7.52	19.2502	-70.0228	14.76	0.00	0.62	6.3
162	820425	211	17.90	19.6348	-70.8613	5.00	0.00	7.85	93.4
163	820426	637	39.31	19.6342	-70.3465	41.67	0.00	0.64	4.8
164	820426	1601	1.12	19.2553	-70.3298	47.32	0.00	0.78	12.3
165	820426	2229	39.82	19.4153	-70.5138	47.97	0.00	1.60	43.4
166	820427	1735	29.81	19.5132	-69.9052	2.50	0.00	2.97	9.0
167	820428	1652	17.27	19.2422	-69.9858	2.50	0.00	3.79	11.3
168	820428	2212	49.77	19.9425	-70.6068	41.90	0.00	3.15	59.9
169	820428	2326	18.02	18.1650	-70.0690	5.00	0.00	0.86	49.9
170	820429	2355	50.68	19.3167	-69.5780	28.09	0.00	0.14	3.5
171	820430	758	48.03	19.4397	-69.8708	39.48	0.00	0.55	
172	820431	2351	25.88	19.0010	-70.6068	19.18	0.00	0.17	2.7
173	820502	427	6.19	19.2422	-69.5903	5.00	0.00	11.92	65.2
174	820502	518	47.87	18.5358	-71.3933	39.27	0.00	0.50	6.8
175	820502	2351	36.24	18.8100	-70.6895	5.00	0.00	1.44	18.6
176	820503	655	16.37	19.2353	-69.8440	12.85	0.00	0.61	8.0
177	820503	923	10.45	18.1773	-70.9703	21.02	0.00	0.97	26.4
178	820503	934	44.85	17.7768	-69.6312	14.10	0.00	6.07	72.2
179	820503	1804	39.11	19.3698	-69.6880	73.44	0.00	1.18	10.0
180	820504	134	0.11	19.3513	-70.0892	22.66	0.00	0.25	9.0
181	820504	1041	39.06	19.2563	-69.8323	20.80	0.00	0.25	60.6
182	820504	1439	4.13	19.2422	-69.5557	45.69	0.00	3.53	41.9
183	820509	1945	6.40	19.4818	-69.6642	5.00	0.00	0.54	15.5
184	820510	259	37.18	18.0020	-69.2913	2.50	0.00	1.57	30.2
185	820510	801	55.32	19.0355	-69.8257	35.88	0.00	1.29	10.6
186	820510	1217	22.62	18.8228	-70.3927	13.91	0.00	0.50	2.3
187	820510	1926	50.61	19.1807	-70.1665	4.50	0.00	1.89	8.8
188	820510	2250	50.67	18.7847	-70.0327	5.00	0.00	0.01	
189	820511	513	42.98	19.7098	-70.5512	22.07	0.00	0.27	1.8

190	820511	945	34.63	18.7235	-71.1777	9.83	0.00	3.09	10.1
191	820511	1514	44.46	19.2422	-69.5903	5.00	0.00	4.65	18.7
192	820514	1808	19.84	19.2045	-70.1373	1.25	0.00	1.69	6.9
193	820514	2257	48.18	19.3220	-69.3002	19.12	0.00	1.30	22.4
194	820516	507	14.32	19.6902	-70.6538	21.95	0.00	0.64	4.3
195	820516	704	7.64	19.2955	-70.0438	23.08	0.00	0.52	2.5
196	820517	1032	30.55	19.6782	-69.8827	5.00	2.68	7.27	56.1
197	820517	2103	29.50	19.2742	-70.7705	5.00	1.75	1.80	
198	820518	113	26.85	19.6435	-71.1653	14.44	1.80	0.13	
199	820518	304	20.31	19.6348	-70.8613	5.00	0.00	0.94	24.3
200	820518	1547	45.69	19.4702	-69.9007	8.54	0.00	4.19	36.4
201	820518	1629	56.35	19.1090	-69.8367	19.98	0.00	1.07	3.9
202	820518	1632	19.67	19.0637	-69.8363	22.89	0.00	1.12	6.0
203	820518	1926	13.03	19.2912	-69.8988	24.34	0.00	2.44	20.5
204	820518	1940	42.13	19.2422	-69.9170	7.42	0.00	0.36	
205	820518	2014	13.50	19.0827	-69.8073	33.99	0.00	0.28	2.5
206	820518	2029	23.89	19.6348	-70.8613	5.00	0.00	21.07	
207	820518	2040	53.06	19.5333	-69.9220	5.00	0.00	4.06	26.5
208	820519	2131	55.49	19.6348	-70.2153	5.00	0.00	0.68	15.0
209	820520	411	34.52	19.6987	-70.6592	14.61	1.85	0.19	
210	820520	1147	3.65	19.2820	-69.9628	2.50	0.00	4.40	28.1
211	820520	1215	16.37	18.9185	-70.4895	82.29	0.00	0.37	7.7
212	820521	1832	36.13	18.8527	-70.1843	14.99	0.00	0.16	2.1
213	820523	15	54.85	18.0337	-70.4785	21.68	0.00	0.39	3.5
214	820525	229	47.53	20.0260	-70.2917	5.00	0.00	2.79	44.7
215	820525	1953	36.29	19.7210	-71.1098	9.09	0.00	0.92	20.1
216	820526	1358	16.59	19.2742	-70.7705	84.72	0.00	1.24	
217	820526	1728	36.42	19.1960	-70.4957	29.46	0.00	1.51	15.2
218	820526	1845	41.99	19.3118	-70.2792	12.59	0.00	1.09	10.5
219	820526	1935	7.16	18.9765	-70.6068	21.89	0.00	1.01	53.3
220	820526	1950	10.39	19.1025	-70.1672	5.00	0.00	0.89	7.5
221	820527	522	50.68	20.0378	-70.1647	5.00	0.00	5.50	94.2
222	820527	1039	21.26	19.5957	-69.9078	13.94	0.00	2.67	4.5
223	820527	2256	52.17	19.4672	-70.3595	5.00	0.00	1.99	9.6
224	820528	140	35.29	19.0200	-70.5448	31.07	0.00	0.49	5.1
225	820528	1614	58.46	19.6348	-70.8613	5.00	0.00	4.49	49.9
226	820529	1450	27.91	18.8032	-70.4132	71.78	0.00	0.84	6.9
227	820530	1729	22.42	19.3735	-70.4122	40.32	0.00	1.66	9.5
228	820531	9	38.86	20.0940	-70.5378	42.91	0.00	0.73	58.6
229	820602	406	22.35	19.2422	-70.0450	5.00	0.00	2.12	16.9
230	820602	1641	11.69	19.1118	-69.4112	14.93	0.00	0.77	6.1
231	820602	2037	27.68	19.2422	-69.5903	5.00	0.00	3.56	17.0
232	820602	2254	19.99	19.0848	-70.6068	5.00	0.00	9.70	
233	820604	54	14.88	19.2422	-69.5903	5.00	0.00	2.57	38.2
234	820604	313	14.59	20.3330	-70.5727	63.12	0.00	1.73	31.5
235	820604	1536	47.67	19.0623	-70.3857	66.05	0.00	0.44	2.7
236	820604	1737	22.54	19.3697	-69.8260	42.69	0.00	1.57	12.7
237	820606	1402	52.19	19.5923	-70.0475	22.70	0.00	0.88	4.8
238	820606	1501	49.54	19.7690	-69.7095	14.51	0.00	2.91	18.1
239	820606	2108	34.46	19.0848	-70.5445	26.04	0.00	0.79	18.6
240	820607	231	14.42	19.5702	-71.2985	23.69	0.00	0.60	22.2
241	820607	405	10.41	19.3083	-70.2247	8.44	0.00	2.53	14.6
242	820607	657	55.01	19.1588	-71.0805	84.60	0.00	0.29	68.7
243	820607	707	24.66	19.2742	-70.7310	67.47	0.00	0.57	
244	820607	1105	5.18	19.6022	-70.4235	5.00	0.00	0.44	11.3
245	820607	1243	54.25	19.5288	-70.0993	40.59	0.00	2.17	36.5
246	820607	1348	24.33	19.7602	-71.0243	57.11	0.00	1.86	83.2
247	820607	1351	10.02	19.5183	-71.2978	20.54	0.00	2.04	15.5
248	820609	1722	9.23	18.8505	-69.8062	66.60	0.00	0.80	4.6
249	820610	233	50.76	19.1510	-70.6985	2.50	0.00	4.47	97.4
250	820610	319	8.39	19.2598	-70.8570	22.36	0.98	0.11	
251	820610	1150	21.59	19.4267	-70.7705	21.14	1.70	0.85	
252	820612	1321	51.38	19.5918	-71.2678	28.27	0.00	0.64	6.5

253	820612	2019	41.78	19.2638	-70.4182	14.65	0.00	4.19	83.1
254	820613	152	55.27	19.2422	-69.9583	2.50	0.00	4.65	26.9
255	820614	1438	35.34	18.8130	-70.4182	5.00	0.00	5.62	58.7
256	820614	1701	42.19	19.6023	-70.0900	5.00	0.00	0.77	12.0
257	820616	1400	33.26	19.5682	-71.0740	36.22	0.00	0.28	5.6
258	820618	347	25.23	19.2592	-69.3595	40.89	0.00	0.29	
259	820618	450	15.61	19.5195	-70.6202	19.62	0.00	0.70	13.9
260	820618	457	37.04	19.0848	-69.1035	12.71	0.00	0.34	
261	820618	1553	28.58	18.7075	-70.5667	17.92	0.00	1.12	20.1
262	820618	1801	39.17	19.1323	-70.7705	14.01	0.00	7.11	34.7
263	820618	1834	22.74	18.6640	-71.7837	2.50	0.00	0.37	21.5
264	820619	628	5.87	19.7732	-69.8788	56.21	0.00	0.26	
265	820619	930	8.69	19.6348	-70.8613	5.00	0.00	3.39	24.1
266	820619	1013	23.57	19.6457	-71.1550	2.33	1.91	0.17	2.8
267	820619	1149	56.18	19.7248	-71.1432	8.88	1.92	0.54	23.3
268	820619	1424	31.45	19.2502	-70.3597	74.65	0.00	1.06	20.1
269	820619	2007	13.07	19.4038	-70.5937	86.64	0.00	1.26	14.8
270	820620	2240	13.62	19.0453	-70.3885	18.69	0.00	0.40	3.0
271	820621	56	17.85	19.2742	-70.7705	5.00	2.59	7.49	1.9
272	820621	403	53.79	18.8872	-71.2840	33.03	0.00	0.80	20.8
273	820621	1045	51.14	19.6348	-70.8613	5.00	2.18	3.30	9.3
274	820622	439	50.78	19.5155	-70.6488	5.00	5.22	0.66	
275	820623	1338	27.23	19.7327	-71.1505	6.89	1.93	0.45	68.8
276	820623	2343	15.56	19.5103	-70.6523	5.00	1.68	0.50	
277	820624	149	47.75	19.1288	-71.0032	17.65	0.00	2.35	84.9
278	820624	1336	20.84	19.4477	-70.6985	5.00	2.16	0.33	
279	820624	1611	36.36	18.9203	-69.5282	39.35	0.00	0.34	59.2
280	820624	2037	6.77	20.2283	-71.3295	5.00	2.40	0.71	***
281	820625	1300	3.23	19.1625	-70.7705	27.77	0.00	0.59	7.6
282	820625	1902	31.54	19.3535	-70.9380	11.24	1.82	0.41	
283	820626	352	44.47	19.2742	-70.7705	5.00	2.59	11.24	0.6
284	820626	710	12.34	19.6348	-70.8613	5.00	2.02	2.33	8.0
285	820626	1021	17.68	19.3873	-70.4268	40.13	1.87	0.17	6.7
286	820627	1442	1.15	19.2737	-70.0968	83.03	0.00	0.22	49.7
287	820627	2308	36.96	18.6732	-70.6500	13.68	2.51	3.82	33.0
288	820628	1241	50.11	19.3648	-70.7828	45.56	0.00	1.28	13.0
289	820629	1810	47.54	19.3118	-70.5237	87.76	0.00	1.63	45.4
290	820629	1911	34.20	18.8130	-70.4182	5.00	0.00	3.09	74.0
291	820701	1257	1.72	19.2333	-70.4778	3.50	0.00	2.76	5.1
292	820701	1551	19.36	19.3158	-70.0390	5.00	0.00	3.92	27.7
293	820701	1618	57.83	19.4882	-70.8613	10.06	0.00	0.75	18.0
294	820701	1735	43.18	19.1453	-70.4182	78.39	0.00	3.86	00.4
295	820704	138	2.44	19.6348	-70.7253	5.00	2.67	1.87	
296	820708	1655	12.99	19.4672	-70.3595	5.00	2.22	3.70	16.4
297	820708	1937	48.48	19.3152	-70.7705	5.00	1.79	0.01	
298	820709	437	27.84	19.3775	-70.6985	5.00	1.99	0.63	
299	820709	1449	51.36	19.3112	-70.5163	39.92	0.00	1.37	10.4
300	820710	1020	24.68	19.7882	-70.6258	4.04	1.64	0.39	10.1
301	820712	1904	43.12	18.8130	-70.4182	5.00	0.00	4.50	90.4
302	820712	2210	14.06	19.8558	-71.1438	5.00	0.00	3.20	50.1
303	820713	1914	1.37	19.2345	-70.9932	5.00	0.00	6.73	
304	820715	1655	4.74	19.3778	-70.3172	11.74	0.00	2.78	57.5
305	820716	1335	30.90	19.3118	-70.6985	5.00	0.00	13.18	70.2
306	820716	1943	3.32	18.2567	-69.0057	2.50	0.00	3.42	00.0
307	820716	2056	2.67	19.0633	-70.3408	14.21	0.00	3.01	18.3
308	820717	954	57.97	18.8130	-70.4182	5.00	0.00	8.00	1.1
309	820717	2224	55.77	19.2153	-71.4852	31.77	0.00	0.61	13.2
310	820718	1012	16.16	19.3118	-70.6985	5.00	0.00	3.59	25.7
311	820718	1040	11.30	19.0923	-70.6792	5.00	0.00	0.04	
312	820719	1545	11.78	19.0462	-70.4613	31.93	0.00	1.46	6.8
313	820719	1620	55.93	19.0452	-69.5903	19.59	0.00	1.01	13.0
314	820719	1733	16.85	19.0592	-70.6985	83.61	0.00	2.04	33.3
315	820719	2133	50.45	18.7473	-70.5302	80.38	0.00	1.78	14.9

316	820720	0	21.00	19.1465	-70.0960	5.00	0.00	0.08	
317	820721	236	11.01	19.4415	-70.0710	65.24	0.00	0.34	7.3
318	820722	119	21.14	19.2422	-69.5903	5.00	0.00	5.29	40.9
319	820724	309	13.38	19.7770	-70.6298	12.70	0.00	0.73	2.2
320	820724	522	12.71	19.5262	-70.6173	40.18	0.00	0.17	3.4
321	820724	1147	12.96	19.3830	-70.3407	13.17	0.00	0.44	
322	820725	1902	52.68	18.7190	-70.2397	11.18	0.00	1.95	11.3
323	820725	1907	33.56	18.6977	-70.2267	11.56	0.00	1.89	11.2
324	820725	2254	32.38	18.9597	-70.0223	5.00	0.00	8.18	61.6
325	820729	208	54.68	19.3535	-70.7768	15.48	0.00	0.24	
326	820804	2112	32.02	18.8250	-70.2548	9.81	0.00	2.22	10.7
327	820805	1110	24.01	18.5315	-70.9560	5.00	0.00	1.14	48.4
328	820805	1407	49.67	19.5855	-70.7705	85.00	0.00	0.64	66.5
329	820805	2132	53.98	19.0652	-70.9052	53.69	2.04	0.48	31.4
330	820806	506	12.18	19.6187	-70.2732	62.64	0.00	1.73	5.9
331	820809	1825	5.77	18.9963	-70.1867	20.62	0.00	0.37	17.2
332	820809	2149	0.91	19.5492	-70.6422	35.19	0.00	0.38	3.2
333	820809	2229	34.33	18.8825	-70.4675	8.77	0.00	2.39	32.0
334	820809	2258	12.19	19.5245	-70.6372	34.60	0.00	0.33	3.5
335	820811	2052	50.77	19.7002	-70.7577	42.83	1.88	0.13	5.7
336	820812	1129	0.01	19.1980	-69.7692	53.53	0.00	1.05	3.6
337	820813	1555	35.87	18.8905	-70.1790	30.34	0.00	1.15	11.7
338	820813	1931	45.54	18.7498	-70.4148	8.60	0.00	0.03	
339	820813	2355	1.61	18.5557	-71.6597	14.03	0.00	0.20	27.0
340	820814	26	50.75	19.3702	-69.5640	20.62	0.00	0.07	
341	820814	33	16.20	19.4175	-69.6655	7.55	0.00	0.04	
342	820814	314	9.07	19.0125	-70.3085	5.00	0.00	1.01	8.3
343	820814	336	7.29	19.0185	-71.3043	5.00	0.00	2.78	20.9
344	820814	455	36.02	19.0913	-69.7338	14.78	0.00	0.42	
345	820814	647	20.70	19.0848	-70.7518	10.73	0.00	0.64	6.7
346	820814	1446	40.11	19.7633	-69.8212	5.00	0.00	0.54	36.8
347	820815	522	19.97	19.5598	-70.7768	29.87	0.00	0.14	4.5
348	820815	617	5.07	19.0595	-70.1790	5.00	0.00	3.50	9.1
349	820816	637	6.78	18.7458	-72.1490	13.84	0.00	0.54	***
350	820817	1156	45.62	19.4102	-71.1760	21.70	0.00	0.23	4.4
351	820817	1827	42.93	19.6348	-70.2507	13.88	0.00	3.82	42.3
352	820817	1914	1.07	18.9765	-70.2362	8.47	0.00	3.43	62.1
353	820818	1916	32.43	19.1252	-70.0518	70.31	0.00	1.16	16.0
354	820819	1238	8.80	20.0822	-70.9027	78.89	0.00	2.40	27.7
355	820819	1537	30.49	18.4235	-70.8498	5.00	0.00	6.57	87.8
356	820819	1602	48.34	19.1780	-70.7705	84.67	0.00	1.28	26.4
357	820813	1555	35.87	18.8905	-70.1790	30.34	0.00	1.15	11.7
358	820813	1931	45.54	18.7498	-70.4148	8.60	0.00	0.03	
359	820813	2355	1.61	18.5557	-71.6597	14.03	0.00	0.20	27.0
360	820814	26	50.75	19.3702	-69.5640	20.62	0.00	0.07	
361	820814	33	16.20	19.4175	-69.6655	7.55	0.00	0.04	
362	820814	314	9.07	19.0125	-70.3085	5.00	0.00	1.01	8.3
363	820814	336	7.29	19.0185	-71.3043	5.00	0.00	2.78	20.9
364	820814	455	36.02	19.0913	-69.7338	14.78	0.00	0.42	
365	820814	647	20.70	19.0848	-70.7518	10.73	0.00	0.64	6.7
366	820814	1446	40.11	19.7633	-69.8212	5.00	0.00	0.54	36.8
367	820815	522	19.97	19.5598	-70.7768	29.87	0.00	0.14	4.5
368	820815	617	5.07	19.0595	-70.1790	5.00	0.00	3.50	9.1
369	820816	637	6.78	18.7458	-72.1490	13.84	0.00	0.54	***
370	820817	1156	45.62	19.4102	-71.1760	21.70	0.00	0.23	4.4
371	820817	1827	42.93	19.6348	-70.2507	13.88	0.00	3.82	42.3
372	820817	1914	1.07	18.9765	-70.2362	8.47	0.00	3.43	62.1
373	820818	1916	32.43	19.1252	-70.0518	70.31	0.00	1.16	16.0
374	820819	1238	8.80	20.0822	-70.9027	78.89	0.00	2.40	27.7
375	820819	1537	30.49	18.4235	-70.8498	5.00	0.00	6.57	87.8
376	820819	1602	48.34	19.1780	-70.7705	84.67	0.00	1.28	26.4
377	820819	2349	38.27	19.2422	-69.6572	22.76	0.00	10.23	73.2
378	820820	2132	37.60	19.3710	-71.0550	86.93	0.00	1.06	26.8

379	820822	1520	53.85	19.0877	-69.7305	60.45	0.00	1.40	6.1
380	820822	2005	47.00	19.7233	-70.7858	88.19	0.00	1.40	
381	820822	2006	30.17	19.0135	-69.3727	10.52	0.00	3.14	21.9
382	821031	607	24.61	19.2957	-70.7610	5.00	0.00	0.01	
383	821101	105	23.89	19.3535	-70.7388	5.00	0.00	0.12	
384	821101	450	0.07	19.1467	-70.4760	29.96	2.94	0.09	
385	821110	16	41.19	19.0848	-70.6068	5.00	0.00	7.58	41.5
386	821113	897	36.08	19.3690	-71.1517	5.00	0.00	0.65	
387	821113	1654	24.79	19.4672	-70.4222	29.89	0.00	1.08	7.5
388	821114	825	29.26	19.3192	-69.7480	7.21	0.00	0.47	31.1
389	821116	2359	19.26	19.0948	-70.6895	12.52	0.00	2.87	32.4
390	821117	955	3.61	19.5225	-70.3860	23.28	1.86	0.12	1.5
391	821117	1013	11.19	19.0775	-71.5335	2.50	0.00	4.11	09.7
392	821118	1137	56.91	19.1047	-69.5157	5.00	0.00	1.06	49.9
393	821118	1502	14.24	18.7902	-70.6068	57.05	0.00	0.84	41.7
394	821119	37	54.35	19.6488	-70.3380	6.67	2.25	0.17	4.2
395	821119	433	16.50	19.1475	-70.7705	12.50	0.00	1.93	48.0
396	821120	2000	5.08	18.8960	-70.3072	75.25	0.00	0.64	7.4
397	821120	2300	31.77	19.4922	-70.3622	24.15	0.00	0.47	3.3
398	821120	2345	43.00	19.6348	-70.8613	5.00	0.00	2.16	23.9
399	821121	353	31.81	19.6348	-70.9153	7.14	0.00	0.45	5.8
400	821122	1511	26.84	19.2017	-70.8038	27.14	0.00	0.40	2.4
401	821123	1933	24.80	19.4672	-70.0467	48.48	0.00	0.99	44.5
402	821123	2154	37.20	19.1118	-70.5910	11.93	0.00	0.05	
403	821123	2157	4.44	19.6148	-70.0887	2.16	2.37	0.05	1.1
404	821124	559	32.97	19.4672	-70.3595	5.00	0.00	2.95	13.4
405	821124	901	42.73	19.7890	-71.0977	46.48	2.30	0.83	12.7
406	821124	2153	45.09	18.9457	-70.0738	41.28	0.00	0.91	4.5
407	821125	558	20.34	19.5040	-70.4860	20.24	2.32	0.15	1.3

1	830414	2348	4.98	19.0848	-70.6068	5.00	0.00	7.48	89.8
2	830415	502	0.74	19.2742	-71.6557	5.00	2.07	19.34	
3	830415	502	0.74	19.2742	-71.6557	5.00	2.07	19.34	
4	830415	1012	34.25	18.2367	-71.8615	5.00	3.29	1.02	82.8
5	830415	1640	1.57	19.6348	-70.8613	5.00	2.32	6.51	05.3
6	830415	2303	53.42	19.6732	-70.3188	41.57	0.00	0.32	12.3
7	830416	-159	52.32	19.5492	-70.4787	8.58	0.00	3.24	28.0
8	830416	345	54.51	19.8685	-70.4867	2.50	3.45	0.68	71.2
9	830416	400	3.06	19.6348	-70.8613	5.00	0.00	4.85	
10	830416	713	10.48	19.2742	-70.7705	5.00	2.14	8.85	48.4
11	830416	1316	42.31	20.2497	-70.8613	5.00	0.00	3.20	92.6
12	830416	1630	53.01	19.4335	-70.5812	33.75	0.00	0.28	2.3
13	830416	2037	31.09	18.7987	-69.0260	1.25	0.00	0.63	***
14	830417	-159	50.26	19.1548	-71.0440	77.52	2.05	1.36	38.6
15	830417	333	42.95	18.6488	-71.5483	43.76	2.49	0.99	17.4
16	830417	643	55.12	19.1165	-70.7705	25.63	2.63	0.23	3.1
17	830417	644	40.74	19.5788	-69.5972	38.32	3.40	0.81	22.5
18	830417	1040	4.32	19.6348	-70.8613	5.00	2.80	4.65	31.4
19	830417	1042	49.98	19.2222	-71.0522	70.40	1.59	0.44	7.5
20	830417	1443	49.63	19.4715	-70.3133	61.19	0.00	0.70	27.7
21	830418	746	10.05	19.3118	-70.6985	5.00	4.33	11.06	97.6
22	830418	2046	4.24	19.6348	-70.8613	5.00	2.33	6.16	44.5
23	830418	2048	52.38	19.9317	-70.5585	5.00	2.58	1.08	78.4
24	830419	307	57.68	19.2652	-70.7467	11.20	1.76	0.03	0.4
25	830419	1014	51.92	19.5482	-70.2102	38.47	2.56	0.41	13.3
26	830419	1942	52.20	19.8363	-70.3320	23.68	0.00	0.63	26.2
27	830419	-159	56.54	18.9387	-70.8717	11.41	2.11	0.36	9.2
28	830420	1215	47.89	18.5698	-70.6068	88.51	0.00	0.27	33.7
29	830420	2326	43.40	19.0717	-69.7552	64.72	0.00	0.34	16.3
30	830421	421	41.15	19.1382	-70.7705	65.28	1.83	0.22	
31	830421	1112	27.24	18.5853	-71.3398	1.50	2.61	0.04	
32	830421	1702	4.55	19.6842	-71.2180	0.74	2.13	0.38	32.3
33	830421	1226	57.32	19.6348	-70.8613	5.00	0.00	4.29	79.9
34	830422	55	56.45	19.2035	-70.7705	87.01	2.41	0.61	30.7
35	830422	100	55.48	19.3450	-70.7705	20.20	2.14	0.46	9.1
36	830422	330	2.57	19.4762	-70.9490	34.71	1.57	0.28	6.5
37	830422	647	7.16	20.2977	-70.7592	75.14	2.58	0.13	10.2
38	830422	734	18.69	19.3118	-70.6445	12.70	2.15	0.19	
39	830422	759	59.34	19.6348	-70.8613	5.00	2.04	4.77	49.3
40	830422	810	22.85	18.9945	-70.8392	33.01	2.94	0.10	
41	830422	1020	16.68	19.6595	-70.7473	13.76	2.95	0.37	30.9
42	830422	1717	47.56	19.9565	-70.6198	52.97	0.00	0.10	21.0
43	830422	1853	41.42	20.1205	-70.4693	31.65	0.00	0.49	6.3
44	830423	145	21.45	19.4517	-70.1527	14.30	3.19	1.39	41.1
45	830423	713	33.97	19.6930	-70.7460	34.41	2.06	0.35	7.2
46	830423	1057	2.28	19.0848	-70.6068	5.00	0.00	2.80	31.8
47	830423	1553	19.01	20.1917	-70.5090	20.35	2.68	0.31	34.4
48	830423	1818	20.00	19.2672	-70.7910	0.68	1.77	0.04	
49	830423	1905	25.13	19.1623	-69.6187	62.05	0.00	0.76	23.2
50	830423	1926	39.91	19.0617	-70.9932	11.01	0.00	0.81	8.6
51	830424	106	22.98	19.6348	-70.8613	10.20	0.00	0.43	38.1
52	830424	1308	10.94	18.9083	-69.6990	40.75	0.00	0.39	82.3
53	830424	2134	4.68	19.4640	-70.1747	54.47	0.00	0.36	19.6
54	830425	204	13.49	20.3032	-70.8613	21.68	2.57	0.45	43.6
55	830425	311	32.61	18.5585	-70.6377	0.15	1.80	0.20	45.2
56	830425	702	59.38	18.3885	-71.2710	5.00	2.63	0.23	32.6
57	830425	707	19.13	18.4682	-71.2917	5.00	2.47	0.21	39.6
58	830425	1137	44.08	17.9243	-70.7118	5.60	0.00	0.16	13.8
59	830425	1210	19.81	18.1802	-71.2360	23.61	0.00	0.74	49.0
60	830425	1543	5.78	19.6348	-70.7295	14.34	0.00	0.49	5.3
61	830428	428	36.43	19.6428	-70.8750	9.57	2.55	0.23	52.5
62	830428	750	3.93	19.6993	-71.0278	12.28	2.09	0.67	12.3
63	830429	1534	39.33	19.0027	-69.9332	5.00	0.00	0.94	25.2

64	830429	1823	29.98	18.9790	-70.1022	42.49	0.00	0.81	9.3
65	830430	2209	57.43	19.0488	-69.8135	22.96	0.00	0.78	29.9
66	830501	528	26.27	19.2697	-70.2545	5.00	2.40	0.54	79.7
67	830501	1912	35.98	19.6343	-70.9815	5.00	2.06	0.58	7.4
68	830502	23	38.62	19.1080	-70.5473	41.08	0.00	0.45	0.9
69	830502	302	5.26	18.6305	-71.4363	21.95	2.45	1.08	43.9
70	830502	614	54.03	18.8637	-70.7400	52.84	2.12	0.07	2.1
71	830502	659	50.08	18.9648	-71.5563	22.64	0.00	0.35	5.7
72	830502	1534	48.20	20.2437	-70.5523	70.24	0.00	1.12	19.0
73	830502	2035	56.34	19.0972	-68.6990	5.00	0.00	3.52	
74	830502	2102	11.70	20.1842	-71.1617	21.99	0.00	2.14	26.2
75	830502	2350	50.21	19.8418	-71.1145	55.44	2.76	1.01	22.9
76	830503	218	19.32	20.2960	-70.7457	32.88	3.05	0.42	7.7
77	830503	319	38.29	19.1547	-70.7705	10.50	1.80	0.18	4.1
78	830503	649	48.81	19.3118	-70.6985	14.43	2.13	5.18	67.3
79	830503	1248	19.68	19.4672	-70.3595	5.00	0.00	5.04	73.8
80	830503	1431	18.68	19.7095	-71.6878	16.51	0.00	2.75	45.6
81	830503	2202	59.76	19.5020	-70.1338	22.46	2.32	0.21	3.2
82	830503	0	2.86	19.1472	-70.6985	5.00	0.00	1.60	
83	830504	7	10.75	19.6348	-70.8613	11.22	2.45	0.35	33.5
84	830504	1053	19.62	19.3118	-70.8413	5.00	2.38	0.60	
85	830504	2257	35.26	19.5280	-70.4890	27.29	1.87	0.18	7.4
86	830505	331	13.64	19.9308	-70.9468	2.50	3.06	1.16	14.1
87	830505	535	37.04	19.4672	-70.3595	5.00	2.48	7.76	59.1
88	830505	737	50.76	19.0822	-70.9432	5.00	2.19	0.06	
89	830505	1045	53.35	18.2867	-70.2527	10.71	0.00	0.62	
90	830505	1946	40.20	19.1850	-72.6288	13.45	0.00	0.79	
91	830506	1554	54.60	19.6243	-69.9330	9.45	0.00	0.41	6.3
92	830506	1740	53.08	18.9025	-70.1790	13.16	0.00	0.17	24.9
93	830506	1913	8.54	18.8423	-70.2125	62.07	0.00	0.25	5.5
94	830507	115	24.07	20.4383	-71.4998	46.17	2.61	0.65	36.2
95	830507	709	29.18	19.4672	-70.0302	22.34	2.59	0.34	42.3
96	830507	1519	53.67	19.4393	-69.7307	5.00	0.00	0.83	51.3
97	830507	1914	31.29	19.3422	-70.4323	22.13	0.00	0.54	
98	830508	234	4.46	18.6918	-70.2568	25.49	2.25	1.21	5.5
99	830508	631	12.16	19.1138	-70.6985	5.00	2.43	0.03	
100	830508	1457	37.11	20.3398	-70.3602	24.50	0.00	0.52	12.5
101	830508	1556	15.56	18.7517	-70.1790	5.00	0.00	5.76	33.1
102	830509	1108	22.00	19.0353	-70.8105	11.97	0.00	0.04	1.6
103	830509	1304	4.56	19.0497	-69.1397	1.13	0.00	0.26	56.0
104	830509	1540	54.18	18.7785	-70.9143	47.67	0.00	1.38	30.8
105	830509	1954	8.32	18.7517	-70.1790	83.58	0.00	2.06	49.0
106	830510	253	57.99	19.4672	-70.5412	5.00	2.32	2.49	92.8
107	830510	632	5.78	19.1542	-70.7103	5.00	2.01	0.02	
108	830510	1121	39.24	19.1415	-70.8362	21.16	0.00	0.30	6.3
109	830510	1846	4.72	18.9897	-70.3068	81.45	0.00	0.62	9.7
110	830510	1846	38.15	19.5262	-70.6713	22.57	2.54	0.49	6.3
111	830510	2219	5.92	19.4672	-70.3595	5.00	2.08	1.89	15.1
112	830511	509	9.02	18.7733	-72.0198	5.00	3.02	0.25	***
113	830511	628	47.84	19.4788	-70.8217	42.74	2.17	0.05	5.0
114	830511	732	59.35	19.2517	-70.7777	5.00	2.99	0.26	
115	830512	101	7.13	19.4672	-70.3595	5.00	2.67	4.25	23.2
116	830512	1107	40.49	19.3535	-70.7768	5.00	0.00	13.22	67.2
117	830512	1243	17.53	19.0267	-70.9932	22.15	0.00	1.18	17.3
118	830512	1807	0.50	18.6512	-70.7705	5.00	0.00	3.94	24.8
119	830512	1808	57.95	18.2433	-70.5582	5.00	0.00	1.36	03.7
120	830513	57	0.96	18.9405	-70.6068	12.88	0.00	2.71	49.8
121	830513	1101	55.15	19.6230	-71.0153	19.65	2.49	0.17	9.2
122	830513	1252	28.13	19.6903	-70.0608	11.96	2.81	0.36	4.4
123	830513	1433	21.20	18.9577	-70.9932	12.11	0.00	1.48	18.1
124	830514	845	51.33	19.3118	-70.6985	5.00	2.48	11.12	1.1
125	830514	1844	41.16	18.6400	-69.9977	42.41	0.00	0.51	53.6
126	830514	1943	7.83	18.9702	-70.5062	56.29	0.00	0.22	11.0

127	830515	135	15.01	19.1507	-70.8285	1.75	2.21	1.14	9.8
128	830515	1432	47.86	19.6507	-70.6698	32.85	0.00	0.31	6.4
129	830515	1456	26.67	18.4480	-70.8160	24.57	0.00	1.07	71.1
130	830515	1748	37.16	20.0288	-70.8088	37.14	0.00	0.59	24.1
131	830515	1640	11.54	18.9950	-70.1737	30.07	0.00	0.67	6.1
132	830515	1844	10.65	19.0848	-70.3363	88.27	0.00	4.77	65.3
133	830516	151	23.56	19.6117	-70.7222	28.43	2.21	0.17	1.9
134	830516	328	7.86	19.9280	-70.3595	12.73	2.19	1.07	28.1
135	830516	1555	30.46	18.9725	-71.4763	32.34	0.00	0.64	9.1
136	830520	543	39.66	19.2422	-69.5903	5.00	0.00	10.44	00.2
137	830520	1740	13.84	17.9660	-69.4255	20.83	0.00	0.20	
138	830523	101	9.81	19.3840	-71.0085	69.51	0.00	1.01	30.4
139	830523	536	15.11	18.8868	-70.1678	66.82	0.00	0.89	8.7
140	830524	1107	55.50	19.1775	-70.8372	25.18	0.00	0.02	0.5
141	830524	1329	47.77	17.8930	-69.4897	2.50	0.00	0.15	2.8
142	830526	134	22.05	19.0068	-71.6983	14.46	2.68	0.44	70.0
143	830526	1317	33.64	19.4145	-69.8860	5.00	0.00	0.35	4.4
144	830530	1507	49.72	19.5665	-70.1218	72.36	0.00	1.21	27.5
145	830531	734	1.92	19.2422	-69.5903	5.00	0.00	5.38	70.9
146	830601	40	33.74	19.3118	-69.7717	35.68	1.49	0.13	
147	830601	156	3.44	18.9050	-70.6800	13.02	2.40	2.58	22.4
148	830601	507	45.69	20.4827	-70.6032	2.50	3.14	1.85	57.6
149	830601	511	4.98	19.4672	-70.3595	11.13	2.96	0.63	11.8
150	830601	844	49.96	19.3315	-70.7152	5.00	2.36	0.00	
151	830604	630	36.82	20.2092	-70.6237	2.50	2.97	0.27	53.0
152	830605	314	43.45	19.2090	-70.6322	26.29	1.81	0.20	10.8
153	830609	404	24.22	19.5413	-69.8982	7.60	2.00	0.25	
154	830609	406	19.90	19.4672	-70.3595	5.00	0.00	25.80	****
155	830610	2133	28.61	19.5342	-70.8145	24.67	1.83	0.14	2.4
156	830611	2306	55.61	20.0593	-70.9158	55.84	2.23	0.26	6.7
157	830612	258	13.94	19.4748	-70.9443	53.56	2.18	0.13	7.6
158	830612	329	25.25	18.7635	-70.9007	2.50	2.14	0.22	
159	830612	1031	18.83	19.2345	-70.9932	5.00	0.00	8.18	
160	830612	1154	22.91	20.1277	-70.3963	5.00	0.00	0.47	16.7
161	830612	1430	22.34	19.4165	-70.5300	39.96	0.00	0.26	22.0
162	830612	1626	3.28	19.6080	-71.3727	10.59	0.00	0.42	5.8
163	830612	1735	19.04	20.1678	-70.4320	21.66	0.00	0.30	12.2
164	830612	2259	37.37	18.3168	-69.6953	41.02	3.10	0.11	57.2
165	830613	1013	34.76	18.9347	-70.3343	77.96	0.00	0.14	3.1
166	830613	1512	45.93	19.3953	-70.3367	54.87	0.00	0.31	2.8
167	830613	1614	35.20	19.4672	-70.3595	5.00	0.00	2.11	19.2
168	830614	1852	7.85	19.1917	-70.1790	13.60	0.00	3.05	19.3
169	830614	1857	38.29	18.6458	-70.2978	5.00	0.00	0.25	95.4
170	830615	149	1.83	18.8272	-71.3225	21.48	0.00	0.30	81.1
171	830615	835	44.21	19.2345	-70.9932	5.00	0.00	10.04	
172	830615	1414	3.71	19.1395	-69.7293	4.50	0.00	0.37	15.8
173	830615	1917	51.13	19.0848	-70.2493	12.74	0.00	1.01	7.2
174	830615	2000	12.66	20.2010	-70.8613	33.49	0.00	2.57	65.5
175	830615	2224	35.21	18.7802	-70.4202	82.02	0.00	0.18	3.6
176	830616	428	7.45	19.4672	-70.1663	5.00	0.00	2.70	15.3
177	830617	120	15.52	19.7003	-70.6985	14.32	1.90	0.10	
178	830617	149	26.10	19.6853	-70.6865	14.19	1.90	0.06	
179	830617	1232	56.70	19.3713	-70.3595	9.08	0.00	0.64	4.5
180	830617	1707	17.15	19.0523	-70.7675	1.13	0.00	0.40	1.8
181	830624	2217	13.29	18.8880	-70.3638	67.91	0.00	0.17	1.8
182	830626	1305	38.83	19.1165	-69.7878	22.51	0.00	0.78	65.3
183	830626	1952	4.72	18.8677	-70.1647	72.92	0.00	0.25	3.4
184	830627	741	55.57	19.2655	-70.7173	5.00	3.16	0.01	
185	830627	1934	0.49	19.6273	-70.6338	5.00	0.00	0.90	16.2
186	830628	244	37.20	19.3070	-70.2283	25.71	2.50	0.35	
187	830628	2337	54.28	20.2320	-69.2525	9.00	0.00	1.00	4.4
188	830630	152	12.94	19.0830	-69.8792	5.00	0.00	1.66	19.9
189	830630	201	24.93	19.1473	-69.7123	4.50	0.00	0.17	85.0

190	830702	953	30.80	19.6348	-70.8613	5.00	2.77	12.42	87.5
191	830705	1649	28.80	19.0105	-70.0885	5.00	0.00	1.99	29.1
192	830706	1435	25.28	19.1157	-70.6207	35.61	0.00	0.17	2.1
193	830720	2316	50.46	19.4438	-70.7705	13.03	2.41	0.67	15.7
194	830721	148	18.01	19.3490	-70.7705	5.00	1.79	0.09	
195	830721	537	23.63	20.1742	-69.1980	5.00	3.18	1.32	
196	830722	609	40.07	18.6910	-70.7557	12.92	0.00	2.53	12.0
197	830722	1149	35.97	19.4672	-70.3417	23.09	0.00	0.27	3.4
198	830722	1537	32.67	19.7498	-71.7958	11.84	0.00	0.40	26.0
199	830722	1732	59.02	19.0647	-70.7705	11.73	0.00	0.35	4.9
200	830722	2132	11.98	18.1805	-71.0685	2.50	0.00	0.68	58.2
201	830723	1315	8.08	19.7528	-71.5475	20.66	0.00	0.37	22.3
202	830725	1743	28.71	19.0753	-71.5820	43.72	0.00	0.21	34.2
203	830902	1416	58.65	19.4672	-70.3595	5.00	0.00	3.42	14.8
204	830902	1707	31.88	19.6382	-69.9212	13.74	0.00	0.52	7.6
205	830902	1854	41.99	19.4078	-70.3182	4.09	0.00	0.12	
206	830903	1458	11.19	19.3033	-71.0163	30.41	0.00	0.23	4.3
207	830904	27	38.52	18.9093	-70.2410	46.34	2.67	0.08	
208	830904	2026	8.91	19.4672	-70.3595	5.00	0.00	3.71	15.6
209	830905	-159	48.25	19.4288	-69.6507	23.55	0.00	0.59	6.7
210	830905	0	3.13	19.4672	-70.3595	5.00	2.44	4.08	06.9
211	830905	-159	50.72	19.9892	-70.1518	18.32	2.83	0.15	
212	830905	0	4.02	19.2742	-70.7705	5.00	2.40	7.29	26.3
213	830905	0	0.16	19.4672	-70.3595	5.00	2.19	3.80	71.8
214	830915	339	58.57	20.1855	-70.3902	11.78	3.03	0.17	
215	830915	514	49.24	19.4672	-70.3595	5.00	3.04	6.40	94.7
216	830915	1659	51.52	19.2635	-69.6723	22.99	0.00	0.37	4.2
217	830919	854	22.05	19.6645	-70.4255	5.00	3.08	0.05	
218	830920	419	38.28	19.2168	-70.8367	5.00	2.99	0.37	
219	830920	-159	50.95	19.0152	-71.2835	2.50	0.00	0.73	40.6
220	830920	-159	55.41	19.5208	-70.7647	46.04	3.14	0.08	
221	830925	1249	14.17	19.4468	-70.4933	45.27	0.00	0.13	9.9
222	830925	2024	59.54	19.4672	-70.3595	5.00	2.20	3.26	60.7
223	830927	457	54.88	19.1438	-70.7650	22.82	2.43	0.11	6.5
224	830927	423	7.31	19.3312	-70.7665	5.00	2.35	0.00	
225	830927	1707	28.21	18.1195	-70.8007	41.06	0.00	0.05	20.0
226	830930	1345	45.63	20.1077	-70.4145	24.29	0.00	0.34	10.6
227	830930	1355	52.27	20.1215	-70.4075	23.82	0.00	0.41	15.5
228	831001	1657	33.44	19.6545	-70.6823	56.60	0.00	0.24	7.2
229	831002	531	27.16	19.7880	-70.6887	5.00	0.00	0.25	20.9
230	831002	600	35.34	19.7225	-70.3622	21.95	2.25	0.22	11.1
231	831002	1141	9.30	19.8333	-70.7615	22.29	0.00	0.44	6.7
232	831003	38	33.22	19.4443	-70.1447	3.75	2.13	0.22	4.3
233	831003	337	20.79	19.6893	-70.4305	0.83	3.10	0.26	61.3
234	831003	812	23.38	19.4672	-70.3595	5.00	2.22	1.35	6.5
235	831003	1300	13.26	18.8700	-70.4665	11.81	0.00	0.23	5.3
236	831005	2225	52.19	19.4968	-70.5097	35.63	1.84	0.19	2.6
237	831005	2354	23.59	17.9693	-70.2665	13.71	3.40	0.21	59.1
238	831006	1151	29.60	18.3607	-70.5150	13.09	2.34	0.75	21.4
239	831006	1945	42.96	19.8557	-70.5843	5.00	1.92	1.21	30.9
240	831008	802	48.68	19.6348	-70.6713	86.80	1.60	0.41	6.7
241	831008	1737	8.20	18.6038	-70.6333	5.00	2.40	0.73	47.8
242	831008	2024	2.94	19.4672	-70.3595	10.46	2.66	0.65	10.5
243	831008	2156	28.86	19.3118	-70.4272	88.63	1.27	0.26	
244	831009	200	40.27	19.6803	-70.5250	4.96	2.96	1.33	65.0
245	831009	404	7.08	19.4672	-70.4428	19.14	2.33	0.67	17.7
246	831009	511	12.38	19.4898	-70.6172	48.96	1.22	0.71	1.2
247	831009	1133	32.01	18.3772	-71.6852	5.00	3.23	1.46	24.6
248	831010	944	56.46	20.0180	-70.7760	6.61	2.32	0.31	23.3
249	831010	1943	39.93	19.4672	-70.3595	5.00	2.47	9.80	44.3
250	831011	2121	56.11	18.7438	-70.7705	55.04	2.35	1.09	42.0
251	831012	343	28.06	19.2742	-70.7705	5.00	2.89	0.92	18.4
252	831012	1316	8.14	19.2670	-72.4915	31.90	0.00	0.12	

253	831012	1832	45.89	19.6115	-71.5925	20.83	0.00	0.35	75.1
254	831012	2037	25.53	19.2422	-69.1775	38.82	0.00	0.90	31.6
255	831012	2053	36.31	19.2498	-70.8082	5.00	0.97	0.13	
256	831012	2109	45.82	19.2637	-70.8173	5.61	0.00	0.13	4.1
257	831013	933	27.60	18.6255	-69.6467	0.63	0.00	0.74	17.9
258	831013	1107	8.07	18.8460	-70.0785	13.30	0.00	0.37	17.0
259	831013	1227	15.74	19.4672	-70.4547	12.48	0.00	1.81	16.4
260	831013	2334	30.03	19.2315	-70.2918	48.36	0.00	0.46	33.5
261	831014	1028	58.26	19.4672	-70.3595	5.00	0.00	1.77	24.6
262	831014	2347	52.79	19.2382	-70.7705	5.00	1.96	0.14	
263	831015	1849	56.32	19.8847	-70.4550	12.45	0.00	0.31	3.8
264	831015	1856	5.46	18.4500	-70.0325	5.00	0.00	0.71	13.5
265	831016	1246	34.74	19.1472	-69.6760	69.13	0.00	1.09	4.1
266	831016	1635	15.16	20.0270	-70.2203	13.22	0.00	0.66	4.0
267	831016	1735	46.85	19.8915	-70.6358	10.90	0.00	0.94	11.5
268	831017	329	3.13	19.9635	-70.5055	29.05	0.00	1.37	12.4
269	831017	337	7.24	19.4672	-70.0965	5.00	0.00	1.96	43.2
270	831017	847	4.75	19.6445	-69.0645	14.75	0.00	0.45	****
271	831017	901	17.98	19.5022	-70.3595	29.19	2.23	0.18	3.6
272	831017	1029	11.71	18.6740	-70.3880	7.43	0.00	0.98	9.9
273	831017	1605	22.08	19.6348	-70.8613	5.00	1.85	9.56	16.7
274	831017	1734	36.48	18.4890	-71.7283	12.39	0.00	0.24	72.3
275	831017	1944	49.50	20.0453	-69.5797	40.87	0.00	0.94	58.3
276	831018	347	55.55	19.2700	-69.9035	14.14	0.00	0.66	7.5
277	831018	1654	53.71	19.1792	-71.0898	29.08	0.00	0.54	23.6
278	831018	2047	16.13	20.0388	-70.2080	12.47	0.00	0.68	45.5
279	831019	114	21.88	19.5527	-70.3595	18.60	0.00	1.62	14.5
280	831019	937	7.90	19.6348	-70.8613	5.00	0.00	6.12	76.2
281	831019	2315	12.25	19.0848	-70.6068	5.00	0.00	2.02	23.9
282	831020	1403	17.51	19.7027	-70.7723	6.56	0.00	0.40	24.0
283	831020	1637	50.24	19.9695	-70.2758	2.50	2.36	0.67	37.5
284	831020	1958	37.29	19.9307	-70.2798	25.36	0.00	0.32	5.1
285	831020	2118	51.46	20.1013	-70.1905	12.08	0.00	0.34	2.7
286	831020	2209	40.98	20.0663	-70.1608	13.30	0.00	0.71	6.5
287	831021	243	2.03	19.9312	-70.3032	20.10	0.00	0.37	9.5
288	831021	822	42.25	18.7892	-70.0188	14.15	0.00	2.40	46.6
289	831021	842	44.58	20.0535	-70.2355	21.60	0.00	0.18	2.2
290	831021	1951	13.90	19.0543	-70.6465	13.57	0.00	0.13	2.4
291	831022	136	59.34	19.6432	-69.3157	5.00	0.00	0.64	10.0
292	831022	434	14.87	19.8373	-70.8613	58.02	0.00	1.03	40.6
293	831022	1140	35.98	19.2742	-70.7705	5.00	2.39	9.41	95.7
294	831023	410	6.85	18.9783	-69.5417	23.98	0.00	0.66	89.7
295	831023	601	36.30	20.0587	-70.3108	5.00	0.00	0.59	9.5
296	831023	630	46.19	20.0528	-70.2480	12.48	0.00	0.43	26.2
297	831023	1356	33.81	20.1523	-70.2097	25.89	0.00	0.44	4.9
298	831023	1741	51.97	19.6322	-70.4468	5.00	1.62	0.57	33.6
299	831023	2231	43.30	19.4672	-70.1547	12.31	0.00	0.58	3.3
300	831024	42	15.01	18.3547	-70.2175	5.00	0.00	1.80	66.8
301	831024	116	34.52	19.0848	-70.0467	5.00	0.00	2.79	12.3
302	831024	1107	26.55	18.7892	-69.3828	5.00	0.00	4.58	26.5
303	831025	408	22.95	19.5643	-69.9607	4.80	0.00	0.55	4.7
304	831025	933	46.28	20.1763	-70.3327	22.73	0.00	1.39	17.6
305	831025	2036	27.54	18.5428	-69.9292	2.25	2.44	1.17	7.4
306	831026	47	23.08	18.7502	-69.6428	5.00	0.00	0.77	27.1
307	831026	659	23.71	19.2402	-70.7705	14.58	0.00	0.40	7.0
308	831027	644	47.01	19.4672	-70.3595	5.00	0.00	9.96	01.0
309	831027	1254	12.02	20.1307	-70.1647	19.63	2.56	0.19	24.1
310	831028	37	27.62	19.4118	-70.4427	5.00	0.00	0.79	6.1
311	831028	1413	55.38	20.0503	-70.7313	85.15	0.00	0.91	42.8
312	831028	1959	28.47	19.6348	-70.7423	24.68	1.60	0.45	8.8
313	831031	2035	37.60	19.7840	-69.1352	86.69	0.00	1.16	59.2
314	831101	109	14.67	20.0610	-70.1928	10.40	0.00	0.46	3.8
315	831101	245	48.30	18.7892	-69.7058	3.00	0.00	2.74	12.8

316	831101	716	18.40	19.3977	-70.9122	31.59	0.00	0.24	1.8
317	831101	1735	38.69	19.4672	-70.2982	21.48	0.00	1.03	14.3
318	831101	1858	44.33	18.2898	-69.9213	18.56	0.00	0.22	13.5
319	831102	556	42.49	18.7892	-69.7528	2.50	0.00	3.53	28.7
320	831102	849	1.26	18.5532	-69.8302	2.25	0.00	3.11	12.7
321	831103	507	58.62	18.1788	-70.1838	5.00	0.00	0.71	34.0
322	831103	1731	30.59	19.5678	-70.7233	35.67	1.58	0.15	3.6
323	831103	1737	1.30	18.8020	-69.8917	4.50	0.00	4.48	7.8
324	831103	1852	35.92	19.5302	-70.7183	20.72	0.00	0.39	3.5
325	831104	2005	19.32	19.6688	-69.6913	6.49	0.00	1.38	33.0
326	831104	2226	32.60	18.7418	-70.3870	79.87	0.00	0.26	3.1
327	831107	133	28.76	19.2112	-70.0608	41.73	0.00	0.29	3.5
328	831107	135	29.70	20.3150	-70.3595	5.00	0.00	12.01	50.3
329	831107	705	21.87	19.7458	-71.0248	6.74	2.52	0.08	2.3
330	831107	744	25.97	19.8625	-70.8613	25.36	2.28	0.50	9.3
331	831107	1646	17.70	18.6718	-70.2232	80.64	0.00	0.98	96.3
332	831108	1321	12.31	19.1150	-70.7705	38.10	0.00	0.79	36.7
333	831108	1424	24.15	18.7892	-69.3828	5.00	0.00	6.30	25.7
334	831109	434	22.37	18.6278	-70.3303	2.50	0.00	1.97	25.8
335	831108	1418	48.64	19.7680	-70.3037	23.80	0.00	0.92	14.4
336	831109	516	53.95	19.2032	-70.8282	21.51	0.00	0.43	8.1
337	831109	555	40.17	19.5172	-70.3595	5.00	1.62	0.29	
338	831109	1042	2.95	19.5122	-69.8532	22.27	0.00	0.89	6.5
339	831109	1207	29.87	19.4383	-69.8833	16.84	0.00	0.16	3.3
340	831109	1537	32.11	18.2690	-70.0250	38.91	0.00	0.87	39.0
341	831109	2112	12.67	19.3040	-69.7113	8.76	0.00	1.05	9.9
342	831110	714	49.21	19.5327	-69.8222	12.58	0.00	0.85	8.2
343	831110	1422	9.64	19.5085	-69.5472	8.75	0.00	2.26	26.3
344	831110	2138	58.08	19.1638	-70.7705	55.92	0.00	0.09	
345	831110	2215	12.88	18.9188	-70.8195	9.25	0.00	0.21	5.7
346	831112	1534	0.44	18.9612	-69.7660	2.50	0.00	4.99	7.5
347	831112	2023	57.12	18.8303	-70.2122	4.50	0.00	6.78	13.9
348	831113	26	58.76	18.2418	-71.4848	16.57	0.00	0.19	46.4
349	831114	330	20.73	18.4620	-70.4243	5.00	0.00	2.82	44.8
350	831114	822	18.14	19.8137	-70.7203	12.14	0.00	0.63	18.0
351	831114	1204	36.71	18.6913	-69.8425	42.64	0.00	0.87	33.2
352	831114	1800	59.53	18.8222	-69.5862	5.00	0.00	0.73	31.8
353	831114	2307	31.55	19.0652	-70.8075	70.88	0.00	0.24	3.9
354	831115	942	29.64	19.4822	-70.1552	10.85	0.00	0.35	2.2
355	831115	1957	1.75	18.9870	-70.4890	27.26	0.00	0.33	2.5
356	831115	2134	24.64	19.6348	-70.8613	5.00	0.00	6.70	40.5
357	831116	50	58.71	18.8878	-71.0920	7.88	0.00	0.39	9.1
358	831116	146	10.69	19.1523	-70.8463	13.12	0.00	1.19	10.7
359	831116	1453	34.49	18.9233	-70.4522	69.56	0.00	0.28	6.8
360	831116	1624	55.27	19.1783	-70.6843	83.37	0.00	0.73	18.2
361	831116	1754	42.03	18.9907	-70.1848	22.89	0.00	0.58	4.6
362	831117	829	11.44	19.0293	-71.0590	7.25	0.00	0.35	3.7
363	831117	1047	1.74	18.5622	-70.5467	59.99	0.00	0.96	19.2
364	831117	2117	55.23	19.2117	-71.0695	33.21	0.00	0.25	2.3
365	831117	2246	1.43	18.8100	-70.7788	4.00	0.00	2.11	27.0
366	831118	256	57.67	18.9637	-70.4647	22.47	0.00	0.34	2.3
367	831118	943	7.11	18.7892	-69.3828	5.00	0.00	2.81	12.6
368	831118	1145	32.16	19.6447	-69.8662	5.00	0.00	3.68	14.7
369	831119	319	32.86	19.6338	-70.6495	29.77	0.00	0.32	6.0
370	831119	347	55.80	19.7433	-70.6022	32.11	0.00	0.18	6.4
371	831119	1057	27.31	18.7892	-69.7447	5.00	0.00	1.90	15.4
372	831120	2052	3.48	19.2092	-70.7705	87.01	0.00	0.69	8.3
373	831121	312	41.50	20.1375	-70.1038	12.69	0.00	0.82	12.4
374	831121	1625	9.02	19.8080	-70.6310	34.59	0.00	0.33	3.5
375	831122	242	52.94	18.8708	-70.3268	70.87	0.00	0.49	4.6
376	831122	442	48.79	18.7892	-69.8107	11.84	0.00	1.77	6.5
377	831122	1101	19.72	19.2312	-69.0700	2.21	0.00	0.32	16.1
378	831122	1425	13.28	17.6173	-71.3233	57.34	0.00	0.76	58.0

379	831122	1808	12.74	18.9327	-70.1688	10.27	0.00	0.18	1.3
380	831122	2109	9.93	19.2613	-70.8248	5.67	0.00	0.15	4.9
381	831122	2323	12.68	19.5747	-70.8185	27.46	0.00	0.38	3.0
382	831123	14	24.75	18.7975	-69.7848	24.34	0.00	0.62	18.0
383	831123	44	39.90	19.1077	-69.7493	42.67	0.00	0.75	12.3
384	831123	1146	16.77	18.7420	-69.8580	41.39	0.00	1.11	9.7
385	831123	1540	11.23	18.9818	-69.8787	47.15	0.00	0.74	6.0
386	831123	1632	34.08	18.8672	-70.3323	85.99	0.00	0.42	8.1
387	831123	1657	8.09	20.2273	-70.6055	5.00	0.00	3.05	77.9
388	831123	1750	30.81	19.1250	-69.3790	14.66	0.00	0.53	56.6
389	831123	2053	14.06	19.4672	-70.3595	23.94	0.00	0.57	
390	831124	302	37.98	19.0410	-70.7360	61.22	0.00	0.35	5.1
391	831124	549	58.66	18.7892	-69.6952	21.69	0.00	1.80	41.6
392	831124	649	37.62	19.5365	-70.4980	5.00	0.00	1.43	15.2
393	831124	736	13.32	18.8100	-70.6895	5.00	0.00	3.89	99.4
394	831124	945	33.65	19.6593	-70.9115	23.78	0.00	0.25	2.7
395	831125	104	9.39	19.4990	-70.2890	29.26	0.00	0.15	2.9
396	831125	449	39.40	18.8098	-70.1105	83.88	0.00	0.27	3.3
397	831126	1220	22.53	19.1423	-69.7047	47.36	0.00	0.79	11.6
398	831126	2022	2.40	18.7892	-70.0562	5.00	0.00	3.23	60.0
399	831127	622	5.30	19.4498	-70.2642	23.33	0.00	0.46	4.1
400	831127	1339	34.18	18.7892	-69.7437	5.00	0.00	1.06	19.8
401	831127	1421	58.50	19.4672	-70.2948	19.68	0.00	0.44	12.1
402	831127	1506	26.08	19.4672	-70.3595	19.86	0.00	0.47	5.0
403	831128	415	25.81	19.3360	-70.4903	2.50	0.00	0.85	4.4
404	831130	107	17.48	18.7767	-70.3723	69.11	0.00	0.27	5.4
405	831130	354	18.13	19.2078	-70.9537	60.52	0.00	0.46	46.7
406	831130	804	22.58	18.7892	-69.3828	5.00	0.00	4.87	11.6
407	831130	2217	42.21	19.2360	-70.0602	41.56	0.00	0.30	4.4
408	831130	2229	28.62	19.7407	-70.9185	28.46	0.00	0.19	8.4
409	831201	10	28.05	19.6348	-70.9857	21.32	0.00	0.73	24.5
410	831201	314	29.39	19.1200	-70.9932	11.54	0.00	0.47	6.1
411	831201	619	30.77	19.1280	-70.5532	59.79	0.00	0.78	14.7
412	831201	909	42.28	18.6613	-71.1178	14.91	0.00	0.21	19.8
413	831201	1251	35.14	19.6352	-71.5987	43.08	0.00	0.26	49.1
414	831206	858	5.37	19.6348	-70.8613	8.12	0.00	0.35	8.6
415	831206	1840	4.88	19.3107	-69.5892	5.00	0.00	3.80	37.7
416	831207	923	54.88	20.0203	-70.2555	23.05	0.00	0.14	2.2
417	831207	1331	27.19	18.9758	-70.4332	73.00	0.00	0.16	3.5
418	831207	1855	39.64	18.9415	-70.1830	4.50	0.00	0.18	14.2
419	831208	1004	31.80	19.5487	-70.2242	19.92	0.00	0.34	2.1
420	831208	1448	9.31	18.9630	-69.4690	4.50	0.00	1.46	50.2
421	831208	1811	59.82	19.6013	-70.0542	12.11	0.00	1.00	6.8
422	831209	507	45.76	18.7892	-69.3828	5.00	0.00	5.38	15.7
423	831210	251	54.40	20.0602	-70.6555	21.42	0.00	0.52	4.0
424	831210	1050	20.63	19.3400	-69.3012	8.22	0.00	0.73	4.9
425	831210	1340	4.51	19.5240	-69.9360	14.14	0.00	0.43	5.5
426	831210	1601	0.55	19.5817	-70.6517	21.94	1.59	0.34	1.8
427	831210	2027	59.50	19.2742	-71.3072	82.91	0.00	0.50	71.3
428	831211	1048	49.66	18.7003	-69.4973	21.76	0.00	0.56	36.2
429	831211	2240	51.50	18.9832	-69.1035	4.50	0.00	1.59	34.3
430	831212	652	6.68	18.7510	-70.4025	80.25	0.00	0.49	4.2
431	831212	946	35.63	19.0862	-70.7705	89.95	0.00	0.91	16.3
432	831212	1146	20.00	18.7892	-69.3828	5.00	0.00	3.30	14.9
433	831212	1321	22.68	19.5630	-71.1265	10.33	0.00	0.37	14.0
434	831212	1501	35.02	18.2885	-70.6038	20.79	0.00	0.31	12.1
435	831212	2305	13.80	18.9693	-70.8753	0.02	0.00	0.35	9.4
436	831214	1031	13.01	19.8017	-70.2543	4.72	0.00	0.20	2.4
437	831214	1530	27.70	18.7572	-70.3787	83.26	0.00	0.26	3.3
438	831214	1657	18.77	19.0502	-70.9243	5.00	0.00	1.34	15.0
439	831214	2259	8.70	19.4218	-68.7257	5.00	0.00	0.97	
440	831215	56	5.00	18.8003	-70.3980	81.59	0.00	0.24	3.4
441	831215	432	15.46	18.8422	-69.7090	59.10	0.00	2.24	16.3

442	831215	1135	46.30	19.5642	-70.4572	29.17	0.00	0.29	2.1
443	831215	1613	25.63	19.3285	-68.9560	14.01	0.00	0.13	35.9
444	831215	1710	1.19	18.7318	-71.2583	11.60	0.00	0.33	7.0
445	831215	2010	31.96	18.9400	-70.1877	10.20	0.00	0.23	2.1
446	831216	136	55.31	19.3313	-70.4523	13.14	0.00	0.78	5.4
447	831216	1216	50.47	18.7892	-69.6717	23.28	0.00	3.63	43.3