# Chapter II

## Back-Arc Convergence and Ophiolite Emplacement, A Case Study of the Okushiri Ridge, Japan Sea

## II.1 Introduction

Marginal basin is a general term for the basins which are located in continental margins, continent-arc boundaries, and behind of intra-oceanic arcs. Back-arc basin is one of them, being developed behind active and/or inactive arc-trench system (Taylor & Karner, 1983). One of the striking features of back-arc basin is that there is no basin older than late Cretaceous exist at present (Miyashiro, 1986). As there is no reason to believe that the formation of back-arc basin is ristricted to recent event in geologic record, they have be consumed someway. One likely mechanism to explain this is the consumption of back-arc basin by plate convergence. Representative example of this is the subduction of the Philippine Sea plate. Then a fundamental question occurs concerning how back-arc basin convergence is initiated.

Second important point I try to make is related to the emplacement of ophiolites. Recent view on the origin of ophiolite indicates that majority of ophiolites are likely to be arc or back-arc basin origin (Fisher & Engel, 1969; Miyashiro, 1973; Maruyama & Liou, 1988). Thus, it is conceivable that the consumption of back-arc basin by convergence can be linked to ophiolite emplacement.

The Japan Basin is a back-arc basin which occupies the northwestern part of the Japan Sea. Average water depth is about 3,000 meters, and the topography is extremely flat in the middle part of the basin. Murauchi (1972) and Ludwig *et al.* (1975) showed that the Japan Basin is composed of a normal oceanic crust based on the refraction seismic experiments. Along the eastern margin of the Japan Basin, a chain of ridges runs approximately in north-south direction. The northern part of this chain of ridges is called Okushiri Ridge which divides the Japan Basin to the west and the several closed basins to the east, for example the Musashi Basin and the Shiribeshi Trough (Fig. II-1). The boundary between the Japan Basin and the Okushiri Ridge was proposed as a convergent plate boundary between the Eurasian plate and the North American plate (Nakamura, 1983; Kobayashi, 1983; Seno, 1983; Tamaki & Honza, 1985).

The purpose of this study is to evaluate the style of structure and the history of tectonics which is responsible for the formation of the Okushiri Ridge. Then, I try to discuss more broader implications to the emplacement of ophiolite. The data set I use are from some "seabeam" maps obtained by Japan Marine Sciences and Technology Center (JAMSTEC), multichannel seismic profiles by Ocean Research Institute and the results of Ocean Drilling Program (ODP) Leg 127.

## II.2 Topography and Structure at around the Okushiri Ridge

Detailed bathymetric survey and deep-tow side-scan sonar survey of the Okushiri Ridge were done by the JAMSTEC simultaneously as a site survey of the "Shinkai 2000" dive in 1989. Closed parts by dashed lines in Figure II-1 show the seabeam survey areas. In the northern part of the Okushiri Ridge, several lineations are recognized in the bathymetric map (Fig. II-2). The lineations run NNW-SSE to NW-SE direction which is parallel to the Suttsu submarine canyon. The lineations cut across the topographic elongation of the Okushiri Ridge. Thus, I interpret this to be active faults. Yamagishi & Kimura (1981) reported the regional stress field at the Kuromatsunai Lowland in Hokkaido from the field observation of active faults. They showed a NW-SE compression. Thus, it can be interpreted that the active faults on the Okushiri Ridge should be strike slip faults with sinistral slip component. The extension of the Kuromatsunai Lowland fault continues to the Suttsu submarine canyon and reach to the Shiribeshi seamount (Fig. II-1). There is no obvious structure in the seabeam map (Fig. II-3). However Watanabe *et al.* (1988) reported some normal faults are found by PDR (precise depth recorder) surveys on the top of the Shiribeshi seamount which run north to south. The lineation of the Suttsu submarine canyon shifts slightly to the east, and continue to northward. It may reflecting the topographic feature of strike-slip fault.

Side-scan survey was originally planed to understand the deformation in the Shiribeshi Trough which was caused by west dipping large thrust faults of the Okushiri Ridge. The track length is about 8 miles, and unfortunately could not reach to the ODP Site 796 (Fig. II-4). Figure II-5 shows the side-scan image of this survey which is applied geometric correction. Some bulges are recognized around the area designated by coordinate 42°52.5'N, 139°28.6'E (Fig. II-6). The height of the bulges is estimated as about several meters, and the strike is N30°W to N40°W. The formation of bulges seems to be closely related to the activity of boundary faults which develop between the Okushiri Ridge and the Shiribeshi Trough as described below.

The topography and surface structure of the Okushiri Ridge show that the ridge is tectonically active even in now and the lineations show the mixture of deformations since the formation of ridge.

## II.3 Stratigraphy and Physical Properties on the Site 796

The oldest sediment (about 12 Ma) so far found in the Japan Basin has been dredged from the western cliff of the Kaiyo Seamount, northern part of the Okushiri Ridge (Hoyanagi *et al.*, 1987; Sagayama, 1988). The evidence imposes the limitation to the youngest age of the Japan Basin.

ODP Leg 127 drilled two holes, Holes A and B, on Site 796. The conditions of drilling are as follow (Table II-1).

Table II-1:

| | Lat.(N) | Long.(E) | WD(m) | Pen.(m) | CR(%) |
|---|---|---|---|---|---|
| Hole A | 42°50.94' | 139°24.66' | 2570.6 | 242.9 | 63.9 |
| Hole B | 42°50.94' | 139°24.84' | 2622.6 | 464.9 | 29.0 |

(Lat.: Latitude Long.: Longitude WD: Water Depth Pen.: Penetration CR: Core Recovery)

### *Lithostratigraphy*

Site 796 could not reach to the basement of the Okushiri Ridge, however, the oldest sediments is estimated as middle Miocene. The sedimentary section cored at Site 796 was divided into five lithological units as follow.

**Unit I**: 0 - 146.2 mbsf (meters before sea floor)

This unit is divided into two subunits. Subunit IA (0 - 51.7 mbsf; Quaternary) is composed of diatom-bearing clay and silty clay with sand. This unit is moderately to highly bioturbated, and associated with soft sediment deformation by slumping and microfaults. Subunit IB (51.7 - 146.2 mbsf) shows also clay and silty clay with frequent sand beds. The frequency of soft sediment deformation features decreases compared to Subunit IA. Sand beds occur throughout the subunit as scattered thin beds (typically 1 - 10 cm thickness, thickest 65 cm) that have sharp basal contacts. The sands are dominated by volcanic lithic fragments and pumice of fine to medium grain size.

**Unit II**: 146.2 - 223.5 mbsf

Clayey diatom ooze and diatom claystone are dominant lithology. This unit is characterized by a significant increase in the abundance of diatoms compared to the Unit I. The detrital input, like sandstone and pebbly claystone increases toward the base of the unit. Sandstone beds occur as thin (2 - 10 cm) graded units with sharp basal contacts and are dominantly composed of volcanic lithic fragments and glass or pumice. The depositional age of this unit is determined by diatoms as early Pliocene to late Miocene. The base of this unit is defined by the last occurrence of diatoms which reflecting the diagenetic transition of opal-A to opal-CT.

**Unit III**: 223.5 - 301.0 mbsf

Siliceous claystone, claystone, and sandstone comprise main lithology of the unit. Claystone units are moderately to highly bioturbated. Sandstone and siltstone interbeds are abundant in the middle part. Sandstones (a few centimeters to 60 cm) are graded and medium to coarse grained with volcanic lithic detritus and glass shards. Scattered glauconite is observed.

**Unit IV**: 301.0 - 416.5 mbsf

Dominant lithology of the unit is siliceous claystone, pebbly claystone, tuffaceous sandstone, and tuff. This unit is characterized by siliceous claystone interbedded with coarse grained pyroclastic deposits which consist of sandstone and pebbly claystone with abundant volcanic detritus and discrete tuff beds. The opal-CT to quartz diagenetic boundary is observed at 301 to 330 mbsf. The claystone is well bioturbated. Pebbly claystone commonly occurs through this unit and is matrix-supported, coarse grain sand to pebble size volcanic detritus that includes pumice, tuff, and other volcanic lithic fragments. Laminated tuffaceous sandstone is present as thin beds throughout the unit, and laminated, graded tuff beds (some exceeding 2 m in thickness) also occur.

**Unit V**: 416.5 - 464.9 mbsf

The unit is composed of siliceous claystone and silty claystone, and can be distinguished from overlying strata by the paucity of coarse clastic and/or pyroclastic deposits and by an increase in dolomite and Mg-calcite. Siliceous claystone is generally bioturbated. Fine grained vitric tuffs, some with calcareous cement, and sandstones are observed as a minor lithology. The sandstones are typically showing a normal size-grading from fine to medium sand upward to silt and clay.

The most significant lithologic change in relation to tectonic evolution of the Okushiri Ridge occurs between Subunit IA and IB. Below this boundary, detrital components and volcani-clastics occur as turbidites throughout the section. The activity of the turbidites diminishes gradually and became virtually absent in Subunit IA. This boundary signifies an important tectonic movement and/or uplift of the Okushiri Ridge which will be discussed later.

*Physical Properties*

A full program of physical property measurements was carried out for the Site 796 cores. The magnetic susceptibility, the GRAPE density, and the P-wave velocity were measured on the multi-sensor track (MST). Index properties, thermal conductivity, formation factor, and the P-wave velocity were measured on discrete samples. Index property data are sorted by depth (mbsf) and presented in Appendix-E, and also the data are smoothed by five point running mean method with weight, 0.5, 0.8, 1.0, 0.8, and 0.5 (Fig. II-7). Thermal conductivity is also smoothed and plotted in Figure II-8. The physical properties of all recovered sedimentary sections are described for each lithological units as follow.

Unit I: Overall the index properties do not show a significant change with depth in this unit. In some parts of which including ash layer are show a little variance in every index properties. Unit IA, however, still exhibits a high porosity because the depth is shallow, and the unit has not had sufficient time for consolidation. Wet bulk density and the grain density change little in Unit IB. Porosity and water content slightly decrease with depth, on average, due to increasing overburden pressure. Thermal conductivity decreases approximately linearly with depth from 0 to 120 mbsf. It may be concordant with the character of the porosity and the water content.

Unit II: The grain density and the wet bulk density vary with the diatom content which is clearly able to see in the results of the another drilling sites. The mean values of bulk density, 1.60 g/cc, and grain density, 2.42 g/cc, are the lowest measured in the entire section. As pointed out in Chapter II, the high diatom content closely relates to the strength of the sediments. Because of this, the porosity and the water content maintain relatively high values from Unit I to Unit II. The relative diatom volume has a peak at around 150 to 160 mbsf based on the smear slide observations. Wet bulk density and grain density reach a minimum at around this depth. This behavior is quite similar to that observed at Sites 794 and 797. Porosity and water content, however, maintain a high value down to approximately 200 mbsf, but at the same time decrease slightly with depth to 200 mbsf. The mean values of the porosity and the water content are approximately 15 - 20 % lower than at the other sites of Leg 127. Thermal conductivity gradually increases with depth below 120 mbsf. These are significant changes from the profiles at the other drilling sites.

Unit III: The bulk density, the thermal conductivity, and the P-wave velocity increase, and the other index properties decrease at the opal-A/opal-CT transition. At the Sites 794 and 797, all of the measured physical properties with the exception of grain densities showed a sharp and relatively large change at this diagenetic boundary. The changes across the opal-A/opal-CT zone at this site are more gradual rather than sharp. The mean values of physical properties change about 15 to 20 % or more between Unit II and Unit III. The general gradients of all index properties except grain density from 200 to 250 mbsf, through the opal-

A/opal-CT transitional zone, are as follows: wet bulk density, 0.33 g/cc/50m; porosity, 20 %/50m; and water content, 16%/50m. The general gradient of thermal conductivity through the same zone shows 0.19 W/m/K/50m. Compared with the other sites, the physical properties at Site 796 change more gradually across the opal-A/opal-CT diagenetic boundary. As at the other sites, the wet bulk density increases linearly with depth, and the porosity and the water content decrease below the opal-A/opal-CT boundary. There is a little change in the trend of the physical properties and the velocity at the boundary from Unit III to Unit IV (approximately 275 to 325 mbsf). The bulk density scarcely drops, and the porosity and the water content maintain the same values or slightly increase in this interval. The acoustic velocity meanders between high and low values (Fig. II-9), which is indicative of alternating hard and soft layers. These features are not dependent on the individual sample selection, because the sample from the major lithologies which always contained silt or clay. In Unit III, I measured samples of claystones, the major lithology, and infrequently made measurements in sandstone layers, of which there are only two samples. Pure sandstone shows extremely low porosity and water content, and high wet bulk density. There is little or no drilling disturbance, because these data plot with very low scatter.

Unit IV: All properties gradually change with depth in this unit except in a small anomalous zone which is a continuation from Unit III. In Figure II-8, the points which plot far from the trends represent sandstone samples. The other samples are claystones. There is a trend across Unit IV to Unit V of increasing wet bulk density and slightly decreasing porosity and water content.

Unit V: All properties show normal trends with depth; the porosity and water content decrease approximately linearly with depth, and the bulk densities, thermal conductivity, and acoustic velocity increase. However, without deeper samples, it is difficult to evaluate the trends of physical properties in the lowermost 50 m.

The most important feature of the physical property change in this site is that of opal A/CT boundary. Here the changer is far gradual as compared with basin sites. The significance of this can be interpreted in relation to tectonic movement of the Okushiri Ridge. This will be discussed later.

### II.4 Acoustic Features of the Okushiri Ridge

Multichannel reflection seismic surveys were carried out at around the Okushiri Ridge by Ocean Research Institute, University of Tokyo. KH-86-2 cruise (R/V Hakuho-Maru) investigated at the southern part of the Okushiri Ridge by 12-channels seismic system. The other two surveys were performed by the R/V Tansei-Maru (KT-87-6 and KT-88-9) using 6-channel seismic system respectively. Figure II-10 shows the track lines of these surveys. Line 5 and 6 are taken by the KH-86-2 cruise, total length is approximately 163 km. Line MC1 is collected by the KT-87-6 cruise. The length of survey line reached up to 112 km. KT-88-9 cruise surveyed at around the Okushiri Ridge and also the northeastern area of the Japan Basin. All surveyed data were processed to migration processing (finite difference migration). Structural interpretations are given to the each profile and are discussed as follow.

Line-MC1: This line runs from the Japan Basin to the Musashi Basin along the 44° line of latitude (Figs. II-11 and II-12). The sedimentary sections above the acoustic basement can be divided into two units separated by a strong reflector. The reflector was identified as the opal-A/CT diagenetic boundary determined from drilling results of the Site 795 that was close to the line MC1. The top of acoustic basement is correlatable to the top of oceanic crust layer II (Murauchi, 1972; Ludwig *et al.*, 1975). The surface topography of the acoustic basement shows small irregularity and also is inclined to the east. The acoustic characters of the basement of the Okushiri Ridge resembles to that of the Japan Basin. However the surface feature of the acoustic basement of the Okushiri Ridge shows slightly rough topography compared to the Japan Basin. This may be relate to the minor faulting during the uplift of Okushiri Ridge. Several submersible dives and dredges were conducted to elucidate the nature of acoustic basement along this seismic line (Miyashita *et al.*, 1987; Tamaki *et al.*, 1988; Miyashita *et al.*, 1989; Tokuyama *et al.*, 1989; Tokuyama *et al.*, submitted by "Marine Geology"). They showed that the acoustic basement of Okushiri Ridge is an equivalent for the oceanic crust layer II. The boundary between the Japan Basin and the Okushiri Ridge on the line MC1 is composed from several thrust faults and branch faults. There are several branch faults in the western wall of the Okushiri Ridge which seem to converge to a thrust of more deeper one which should a detachment thrust. The western wall of the Okushiri Ridge is composed from a piled nappe structure of oceanic crust. Fukao and Furumoto (1975) has reported that in the case of 1940 earthquake off Shakotan (M=7.0; latitude, 44.35°N; longitude, 139.46°E). a fault plane cut through the entire crust was estimated. This earthquake is closely related to the thrust activity at the boundary between the Japan Basin and the Okushiri Ridge. The direction of the earthquake fault strike presents the north to south direction along the trend of the Okushiri Ridge with the focal mechanism showing the almost east-west compression. This evidence should be taken as a possible indicator of the detachment fault between the Japan Basin and the Okushiri Ridge. In another word, it can be suggested that this boundary thrust cut entire crust and may represent the plate boundary between the Eurasian plate and the North American plate as suggested by Nakamura (1983), Kobayashi (1983), Seno (1983), and Tamaki and Honza (1985). The western part of the Okushiri Ridge in this profile is inclined to the east about 4 degrees involving the uppermost sedimentary layer. This indicates evidence for active tectonics around the Okushiri Ridge. The vertical offset of the acoustic basement between the Japan Basin and the Okushiri Ridge is approximately 2 seconds (two-way traveltimes) even after the tilting correction of the Okushiri Ridge was made. If it is possible to measure the dip angle of the detachment thrust, the horizontal movement can be estimated. Then if the offset of the acoustic basement at the boundary was cancelled by only a thrust fault which has 2 to 3 degrees angle in dip, the horizontal convergence should be 30 to 40 km. In contrast, there are also active thrusts which dip to the west at the boundary between the Okushiri Ridge and the Musashi Basin. The seismic profile shows that the thrusts are listric faults. In the shallow part of the fault, the dip angle increase which may mean the faults include a lateral slip component. The boundary fault between the Okushiri Ridge and the Musashi Basin is a back thrust caused by the detachment thrust between the Japan Basin and the Okushiri Ridge. Submersible observations also showed the existence of active reverse fault at the boundary (Tokuyama, 1990, personal communication). Furthermore, to the east of the Okushiri Ridge the sedimentary sequence shows folding which may be caused by wedge deformation between the detachment thrust and the back thrust.

Line-5: Line-5 runs along the 42°50'N line in latitude from the Japan Basin to the Shiribeshi Trough (Figs. II-13 and II-14). Total length of this line is approximately 89 km. The boundary between the Japan Basin and the Okushiri Ridge here shows no significant structural boundary with only small offset faults. The acoustic basement, possibly oceanic crust layer II can be continuously traced from the Japan Basin to the Okushiri Ridge. On the other hand, the boundary between the Okushiri Ridge and the Shiribeshi Trough is divided by listric thrust faults dip to the west which exhibit quite recent activities in the profile. This inference was supported by the fact that there is no evidence of growth fault and also the faults cut the upper most deposits of the Shiribeshi Trough. The tilting of the Okushiri Ridge, about 3°, also suggests the recent movement. Small topographical bulges are seen in the western edge of Shiribeshi Trough. These could also indicate the extensions of the listric reverse faults. The acoustic basement of the Shiribeshi Trough has quite different structure as compared with that of the Okushiri Ridge. The acoustic basement of the Shiribeshi Trough is continuous to the east and can be correlated to the Neogene sediments which are distributed in the northwestern Hokkaido. Several listric reverse faults are seen in the boundary between the Japan Basin and the Okushiri Ridge which have small offsets.

Line-6: Line-6 runs along the 43°N line in latitude as parallel as the line-5 (Figs. II-15 and II-16). Total length of this line is about 74 km. The acoustic stratigraphy and overall structure are quite analogous with the line-5. There are, however, some differences between the two. The degree of tilt angle of the Okushiri Ridge is much greater here than the line-5, 10 miles southern part of the Okushiri Ridge, showing approximately 8 degrees to the west. Some listric thrust faults are seen at the boundary between the Okushiri Ridge and the Shiribeshi Trough, but they show less intense deformation compared to the line-5.

These structures are still active which supported from the results of the sediment physical properties at Site 796 as describe as follow. One of the prominent features of the sediment physical properties at Site 796 is the relatively gradual change of physical properties across the opal-A/CT diagenetic boundary as compared to the sharp change observed at Sites 794 and 797 (see Chapter I). According to the available physical properties data, the top of the diagenetic boundary between opal-A and opal-CT is around 205 mbsf. At this depth, there are relatively large changes in the wet bulk density, porosity, and water content (Fig. II-7). The opal-A/CT transition zone is obviously different from that at the Sites 794 and 797 in terms of the width of the zone and the change in relative values of index properties across the boundary. The change in index properties across this zone is significantly smaller at this site, partially because the wet bulk density is 10 to 15 %

higher, the porosity is about 10 % lower, and the water content is 10 to 15 % lower above the transition than at the Sites 794 and 797. Grain density shows almost the same values. The lower water content at Site 796 may relate to the lithology (eg. lower diatom content, coarse grain size, and/or higher carbonate content) or to a greater degree of lithification, but the exact cause of the difference is uncertain. These differences in the physical properties in the upper section of Site 796 as compared to Sites 794 and 797 accounts for the smaller change in the physical properties across the opal-A/CT boundary, but cannot explain the gradual nature of the opal-A to opal-CT transition. The diagenetic boundary may be migrating upward because of the recent tectonism and related high thermal gradient at Site 796. A significant possibility is supply of heat by pore water flow at 175 to 200 mbsf. The water content is maintained at a high value over this interval despite a decrease in the diatom content. This high water content may reflect water flow, similar to the seepage at accretionary prisms in subduction zone, which closely relate to active faults. Large thrusts around the Okushiri Ridge may serve as conduits for fluid flow.

### II.5 Timing of the Initiation of Convergence

One of the results of Site 796 drilling (ODP Leg 127) is the age determination of uplifting of the Okushiri Ridge. The shallowest and/or youngest sands were recovered at about 63 mbsf in upper most Pliocene sediments which dated as 1.8 Ma by diatom stratigraphy. The boundary was designated as Subunit IA and IB boundary. Most sediments below the sand bed are composed from turbidites and chaotic sediments. These gravity flow sediments were interpreted to come from the land area of western Hokkaido. The change in the lithology thus can be interpreted as the event of the uplift of the Okushiri Ridge, escaping from the level of the turbidity current deposition.

Takeuchi (1985) has also mentioned the change of regional stress field in the NE Japan from an extension to a compression at around 3 Ma, which roughly coincides the age obtained by the drilling. If the level of acoustic basement both the Okushiri Ridge and the Japan Basin was same, it is possible to estimate a relative total offset which caused by the listric thrust fault. The relative offset is about 1.5 seconds (two-way traveltimes). The mean velocity of sediments can be assumed as 2000 m/sec. Then the relative offset between the acoustic basements is about 1500 m. Thus the vertical uplift rate is about 0.75 mm/yr in 2 Myrs. The occurrence of disturbed bedding in Quaternary deposits suggests that slumping process were active during the uplift of the Okushiri Ridge. The oldest evidence of significant soft sediment deformation and inclined beds is represent at 45 mbsf, about 0.9 Ma by diatom stratigraphy. The time gap between the last occurrence of the turbiditic sand and the initiation of soft sediment deformation shows the phase of uplift without much tilting development of the Okushiri Ridge uplifting. The onset of convergence is about 2 Ma, which is still active now.

### II.6 Significance of Inversion Tectonics for Ophiolite Emplacement

The Okushiri Ridge is composed of the oceanic crust layer II as an acoustic basement and sediment cover on it. This is confirmed by many rock samples, in situ observations by submersible, refraction surveys, and reflection surveys. If the Okushiri Ridge will emplace to the Japan Arc, the Okushiri Ridge could be an ophiolite slab as observed in many ancient records. Multichannel seismic profiles show the active detachment of the Okushiri Ridge at the boundary between the Japan Basin and the Japan Arc. The structure can also divide into two tectonic styles. One is a subduction type with a back thrusting and the other is a obduction type (Fig. II-17). An example of the former type is represented in the line-MC1, and the latter type in the line-5 and 6 respectively.

What cause these diverse type of structural styles? Recent structures cut across the N-S trending Okushiri Ridge (see Fig. II-2). This suggest that the recent tectonic movement is not necessary to be responsible for the production of the peculiar structural styles. I suggest that the recent tectonics cause the reactivation of the older structural trends between the Japan Basin and the Japan Arc. The boundary between the two was originally formed during the rifting of the Japan Basin. Initial extensional tectonics may be produced normal faulting along this boundary and then thermally subsided. Sedimentary piles essentially masked the topography until late Pliocene. Compressional tectonics which commenced since them produced reverse faulting and basement detachment. I suggest that this inversion of tectonics has been responsible for the structural evolution of the Okushiri Ridge.

Figure II-18 shows the distribution of embryo of ophiolites which are divided into two styles. These formation mechanisms are inevitable consequence of the back-arc convergence. Thus inversion tectonics can be widely applied as a main mechanism of ophiolite emplacement.

## II.7 Conclusions

Multichannel seismic profiling, ODP results and topographic analysis all indicate that the Okushiri Ridge has been subject to an active tectonics of compression since late Pliocene. Crustal detachment causing active thrusting is identified. Two typical convergent structures were observed around the Okushiri Ridge: one is a "subduction with back-thrusting" type, and the other is a "obduction" type. Significant structure in both types is the formation of back thrusting which makes the isolated blocks of back-arc basin crust. It is important for the origin of ophiolites. Moreover the convergent structures may correlatable with the nappe structures around the continental margin.

Originally the main thrusts may be initiated reactivating old structure produced by rifting. Tectonic inversion thus can be an important mechanism for ophiolite emplacement.

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Yamagishi, H. and G. Kimura, Outcrops of active faults along the Kuromatsunai Lowland, Hokkaido, *J. Assoc. Geol. Coll. Japan (Earth Sci.)*, *35*, 94-97, 1981.*

* : in Japanese

** : in Japanese with English abstract

Figure II-1: Locality map of around the Okushiri Ridge. Contour interval is 100 m. Closed areas by dashed line are showing the seabeam survey boxes.

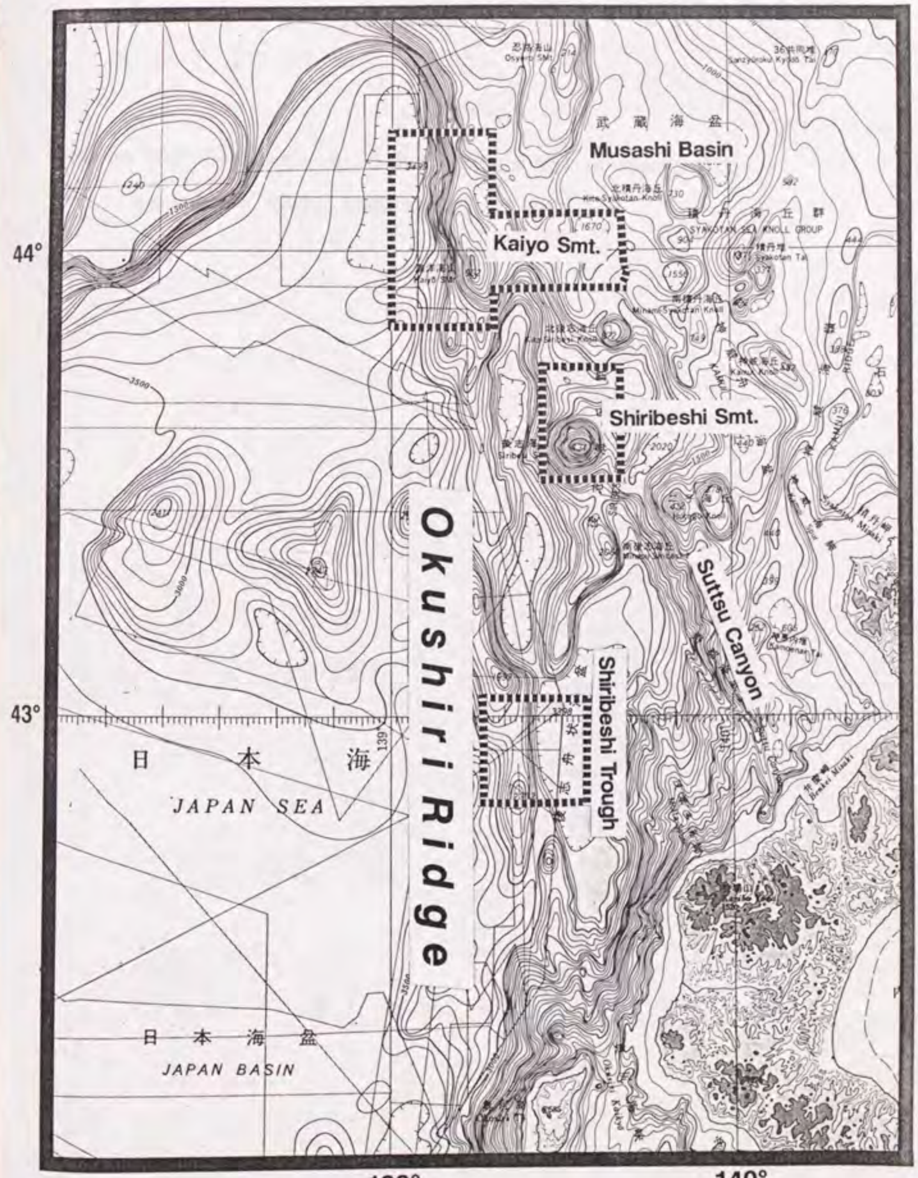

Musashi Basin
武 蔵 海 盆
Kaiyo Smt.
Shiribeshi Smt.
Okushiri Ridge
Suttsu Canyon
Shiribeshi Trough
日 本 海
JAPAN SEA
日 本 海 盆
JAPAN BASIN
SYAKOTAN SEA KNOLL GROUP
44°
43°
139°
140°

Figure II-2: Seabeam map of the northern box in Figure II-1, around the Kaiyo Seamount.


SEABEAM MAP
DEPTHS IN METRES
DEPTHS IN METRES
0.0
5.0
10.0
15.0
20.0 KM

Figure II-3: Seabeam map of the middle box in Figure II-1, around the Shiribeshi Seamount.

MERCATOR PROJECTION SEABEAM MAP
( 1/100000 AT 43°30' N )

DEPTHS IN METRES

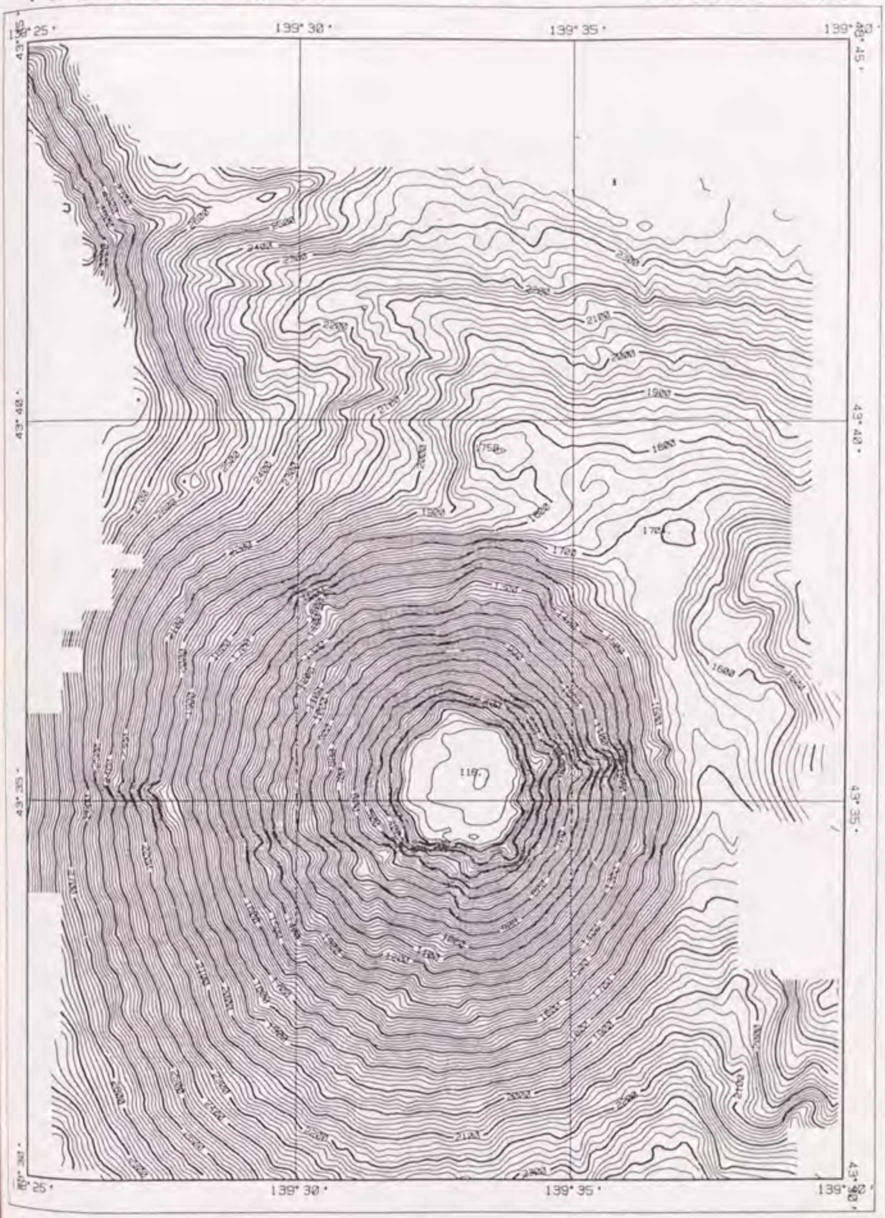


Figure II-4: Seabeam map of the southern box in Figure II-1, southern Okushiri Ridge to the Shiribeshi Trough. Dashed line shows the track line of side scan sonar survey. A marked point (star mark) is a drilling site of the ODP Site 796.

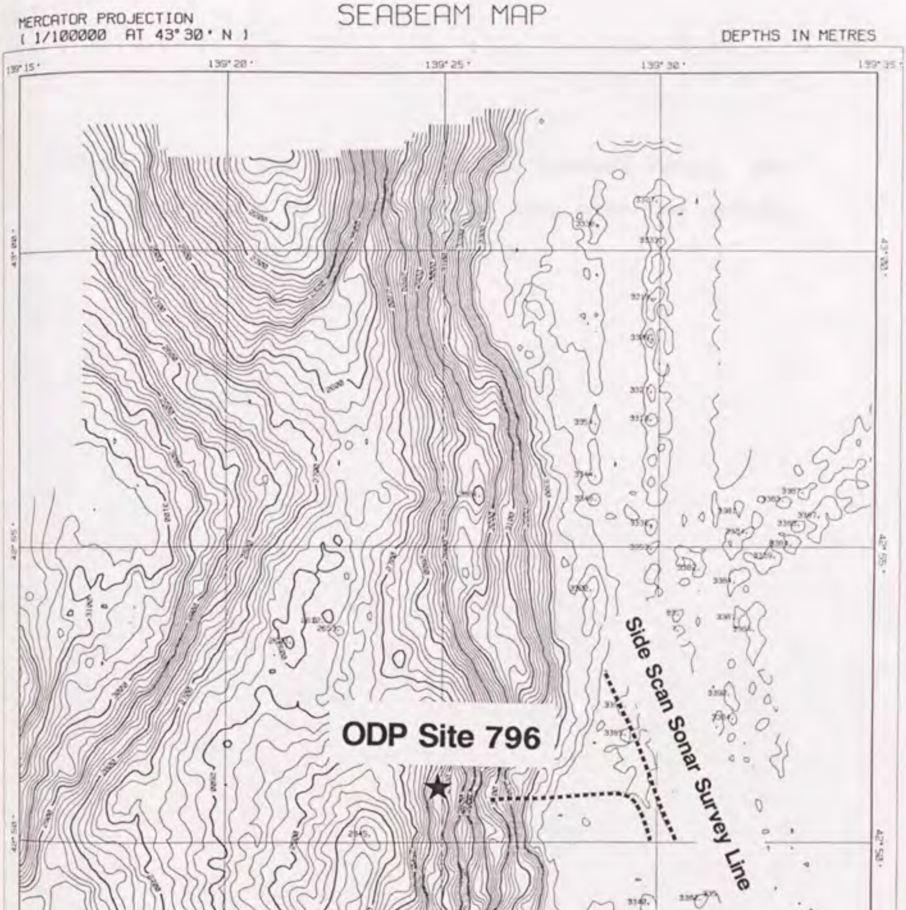

MERCATOR PROJECTION
( 1/100000 AT 43°30' N )
SEABEAM MAP
DEPTHS IN METRES
139°15'
139°20'
139°25'
139°30'
139°35'
43°00'
42°55'
42°50'
ODP Site 796
Side Scan Sonar Survey Line
0.0
5.0
10.0
15.0
20.0 KM

Figure II-5: Side scan sonar profile in the Shiribeshi Trough. The arrowed area are able to see the some conversion structure, and which are enlarged in Fig. II-6.

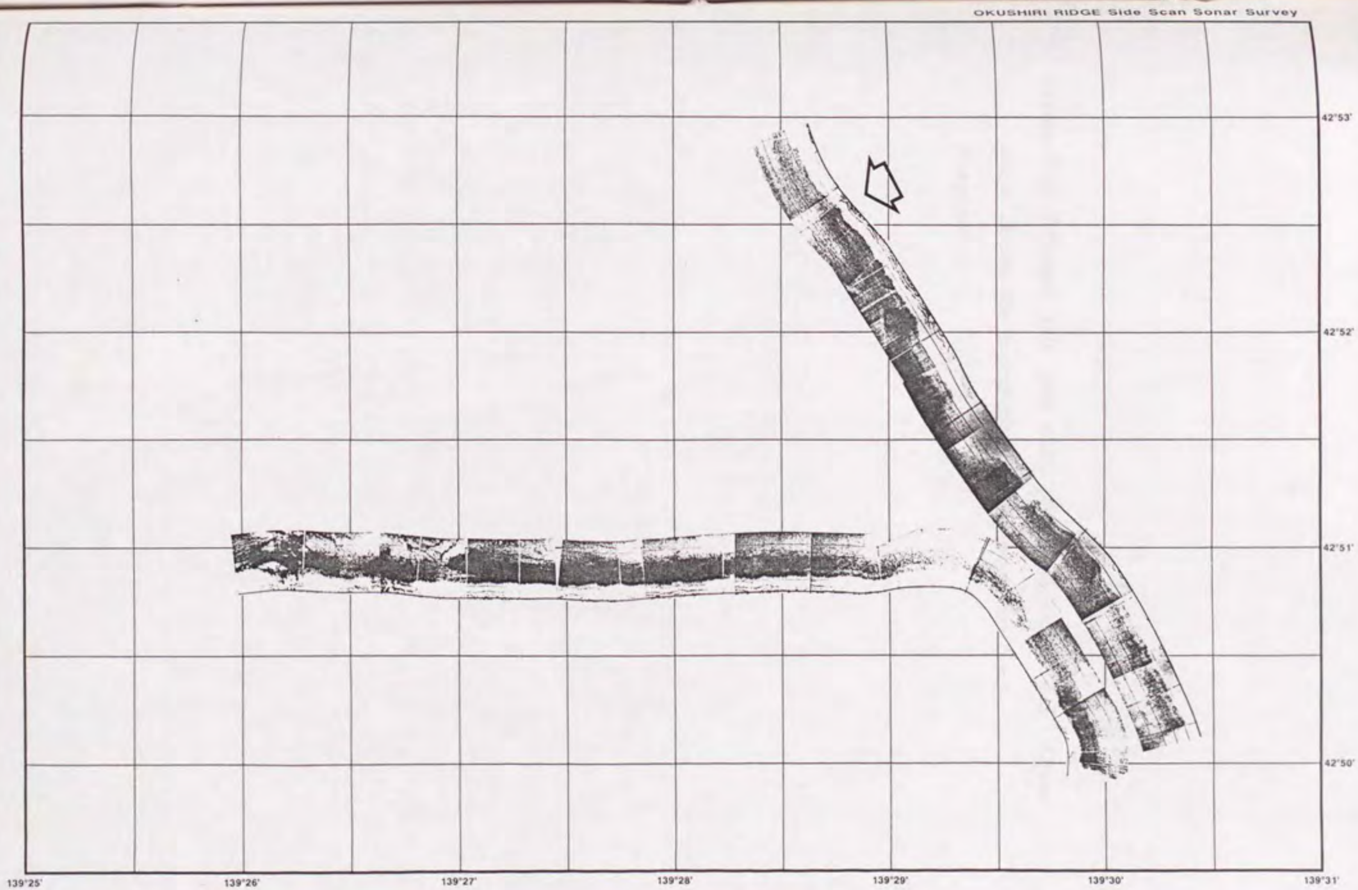

OKUSHIRI RIDGE Side Scan Sonar Survey
42°53'
42°52'
42°51'
42°50'
139°25'
139°26'
139°27'
139°28'
139°29'
139°30'
139°31'

Figure II-6: Enlarged side scan sonar profile of Figure II-5. Open arrow shows the topographic bulge (note the black lineation).

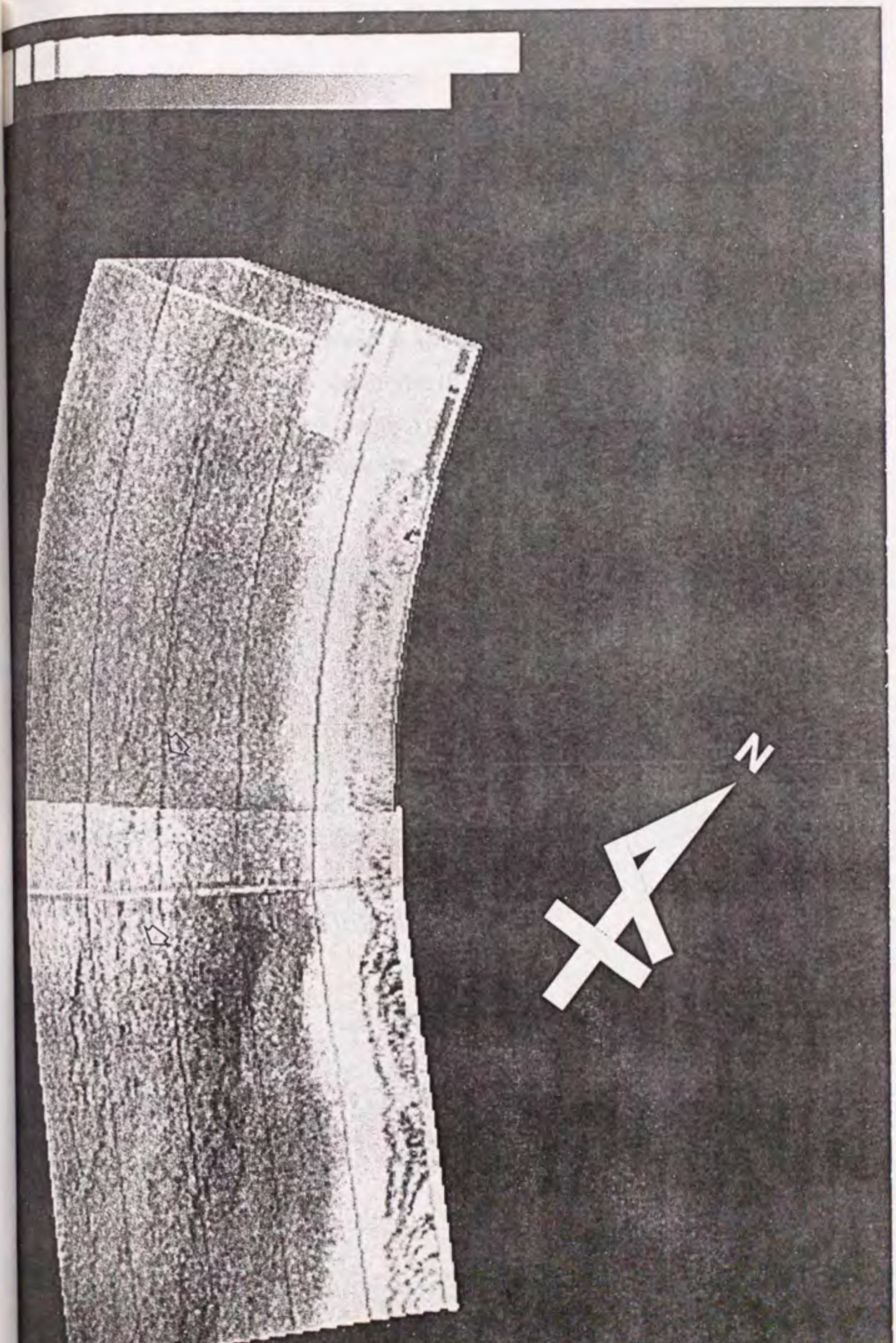

N

Figure II-7: Index properties at the Site 796. All plots are coordinated with depth (mbsf). The plotted data were smoothed by five points running mean method, each smoothing weight was 0.5, 0.8, 1.0, 0.8, and 0.5.

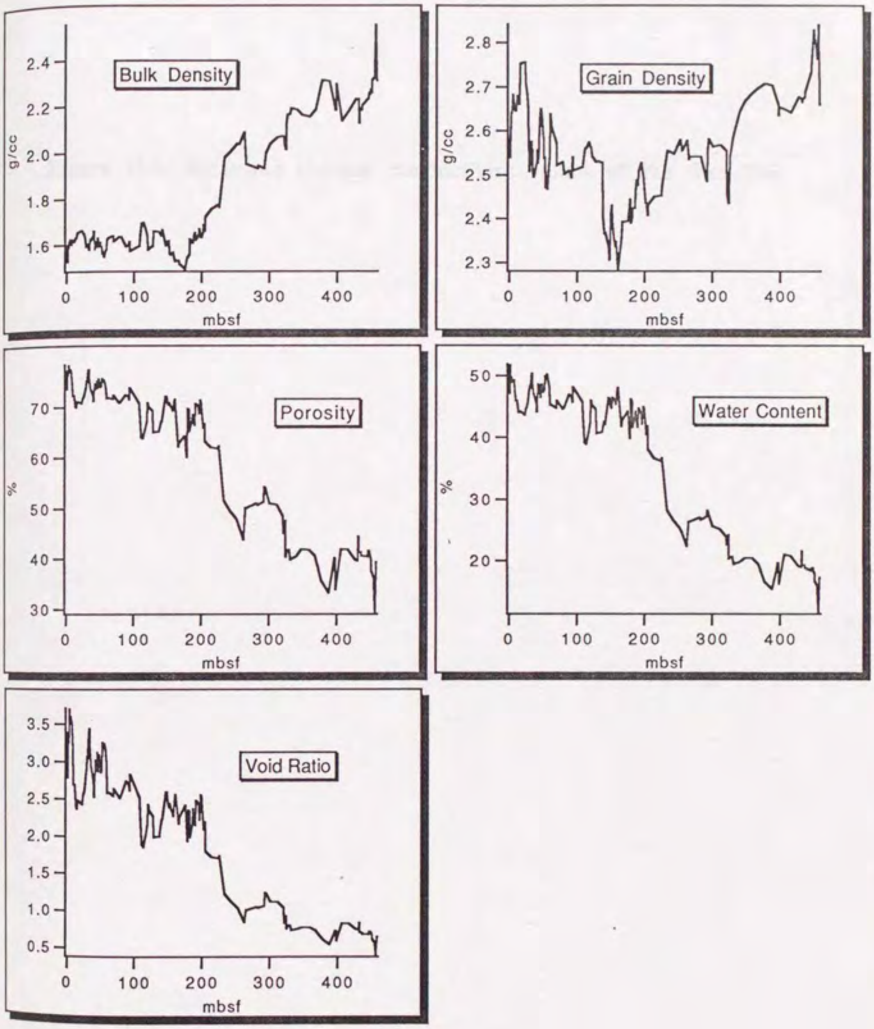

Bulk Density
g/cc
2.4
2.2
2.0
1.8
1.6
0
100
200
300
400
mbsf
Grain Density
g/cc
2.8
2.7
2.6
2.5
2.4
2.3
0
100
200
300
400
mbsf
Porosity
%
70
60
50
40
30
0
100
200
300
400
mbsf
Water Content
%
50
40
30
20
0
100
200
300
400
mbsf
Void Ratio
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0
100
200
300
400
mbsf

Figure II-8: Measured thermal conductivity values of the Site 796.

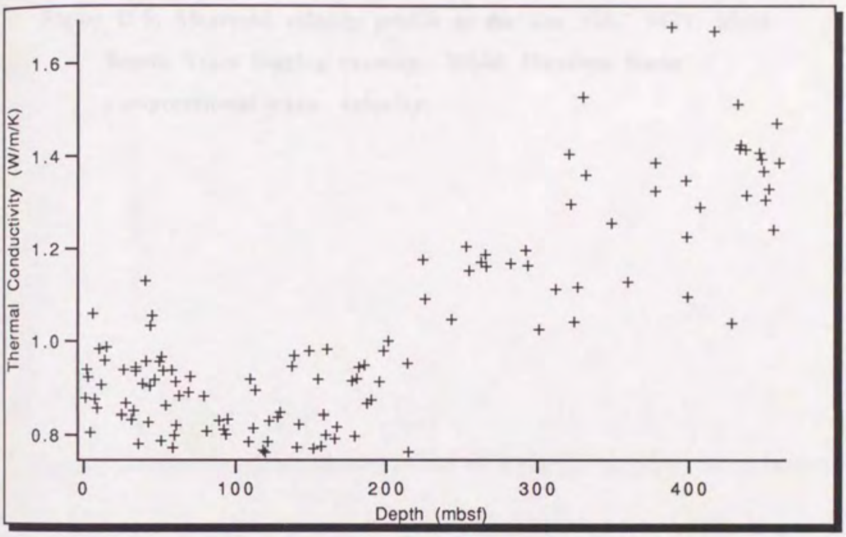

Thermal Conductivity (W/m/K)
1.6
1.4
1.2
1.0
0.8
0
100
200
300
400
Depth (mbsf)

Figure II-9: Measured velocity profile at the Site 796. MST: Multi-Sensor Track logging velocity. HAM: Hamilton frame compressional-wave velocity.

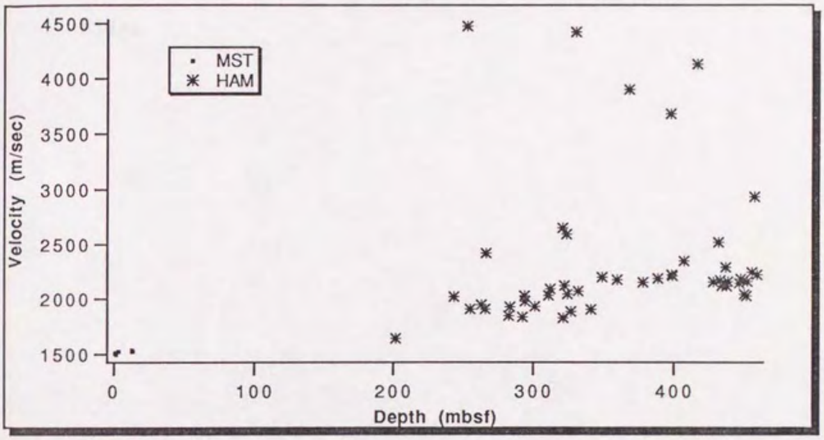
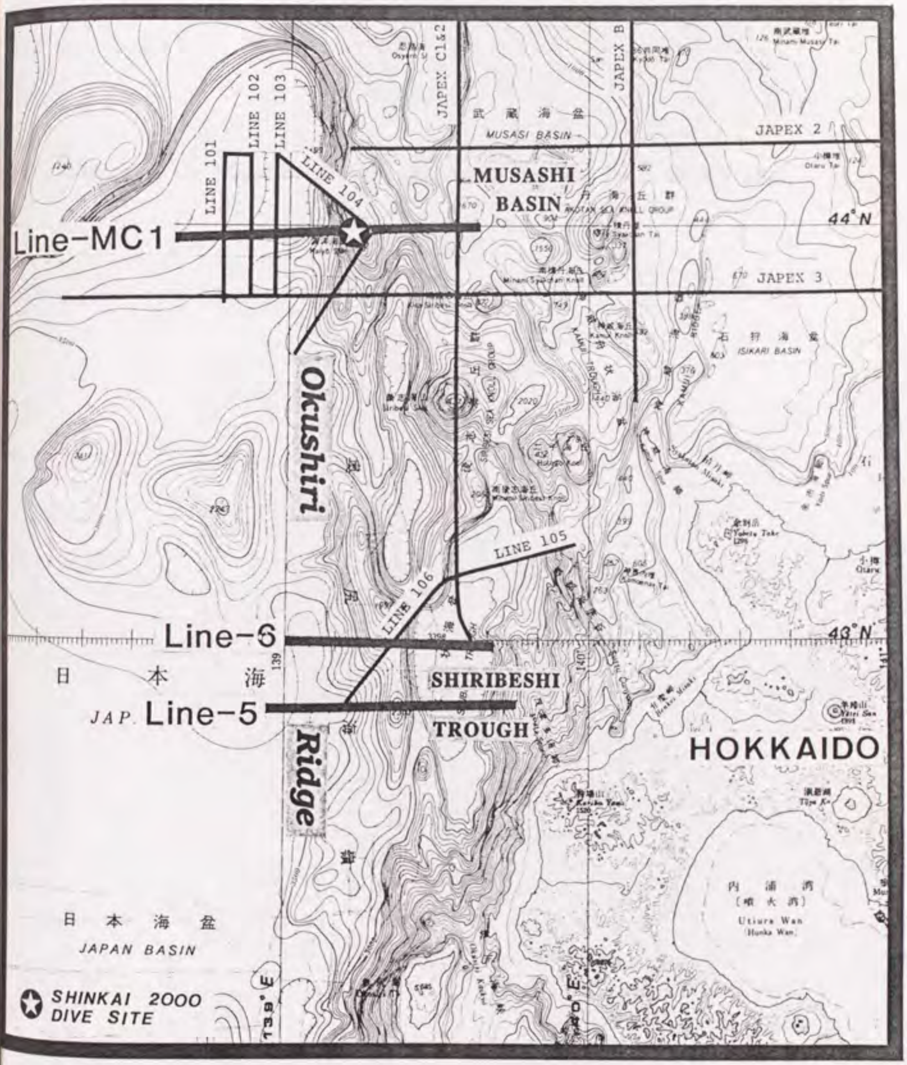

4500
4000
3500
3000
2500
2000
1500
Velocity (m/sec)
MST
HAM
0
100
200
300
400
Depth (mbsf)

Figure II-10: Reflection seismic survey lines around the Okushiri Ridge.



LINE 101
LINE 102
LINE 103
LINE 104
JAPEX C1&2
JAPEX B
JAPEX 2
JAPEX 3
武 蔵 海 盆
MUSASI BASIN
MUSASHI
BASIN
44°N
Line-MC1
石 狩 海 盆
ISIKARI BASIN
Okushiri
Ridge
LINE 105
LINE 106
Line-6
43°N
日 本 海
JAP. Line-5
SHIRIBESHI
TROUGH
HOKKAIDO
内 浦 湾
〔噴 火 湾〕
Utiura Wan
(Hunka Wan)
日 本 海 盆
JAPAN BASIN
SHINKAI 2000
DIVE SITE
139°E
140°E

Figure II-11: Migrated seismic profile of the line MC1 of KT-87-6.

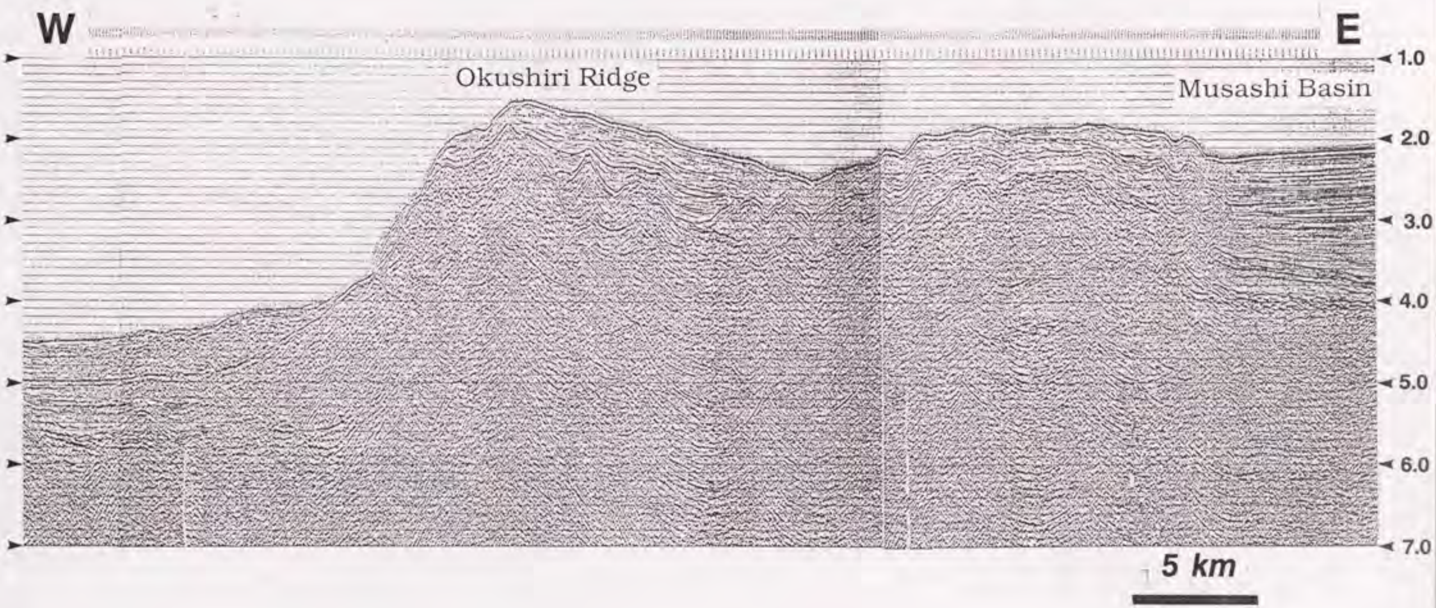

W
E
Okushiri Ridge
Musashi Basin
1.0
2.0
3.0
4.0
5.0
6.0
7.0
5 km

Figure II-12: Interpreted seismic profile of the MC1. M: Main thrust. B: Back thrusting.

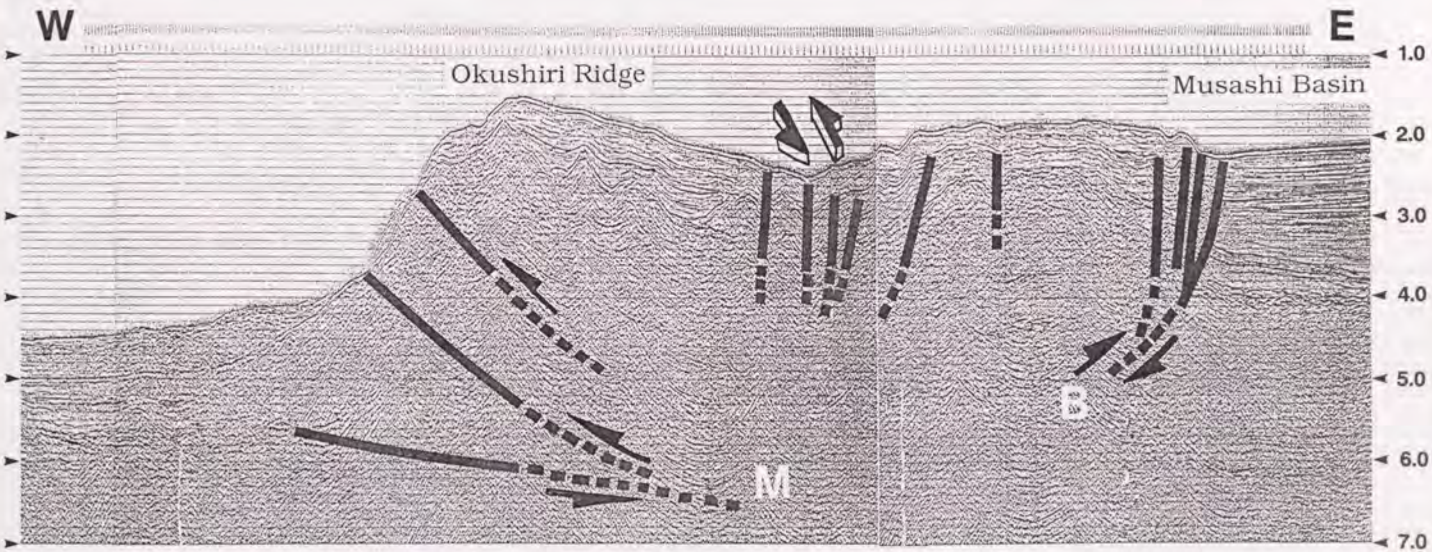

W
E
Okushiri Ridge
Musashi Basin
1.0
2.0
3.0
4.0
5.0
6.0
7.0
B
M

Figure II-13: Migrated seismic profile of the line-5 of KH-86-2.

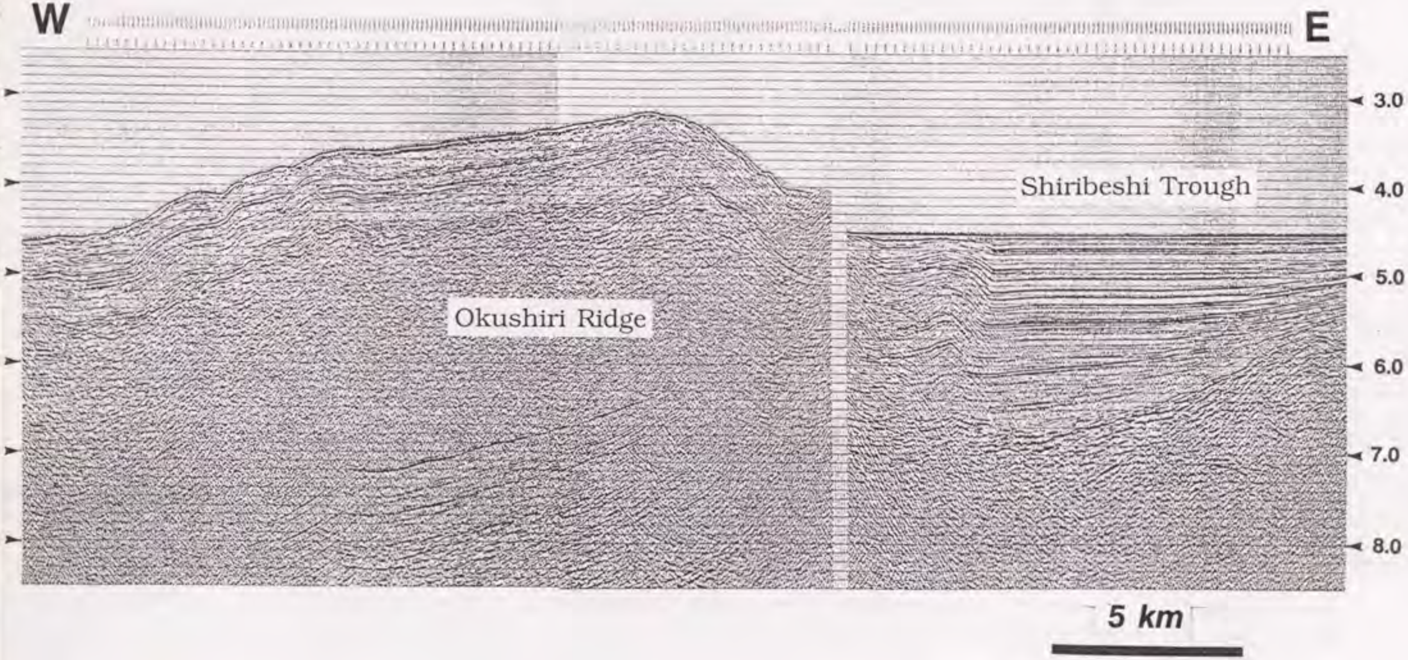

W
E
3.0
4.0
5.0
6.0
7.0
8.0
Shiribeshi Trough
Okushiri Ridge
5 km

Figure II-14: Interpreted seismic profile of the line-5.

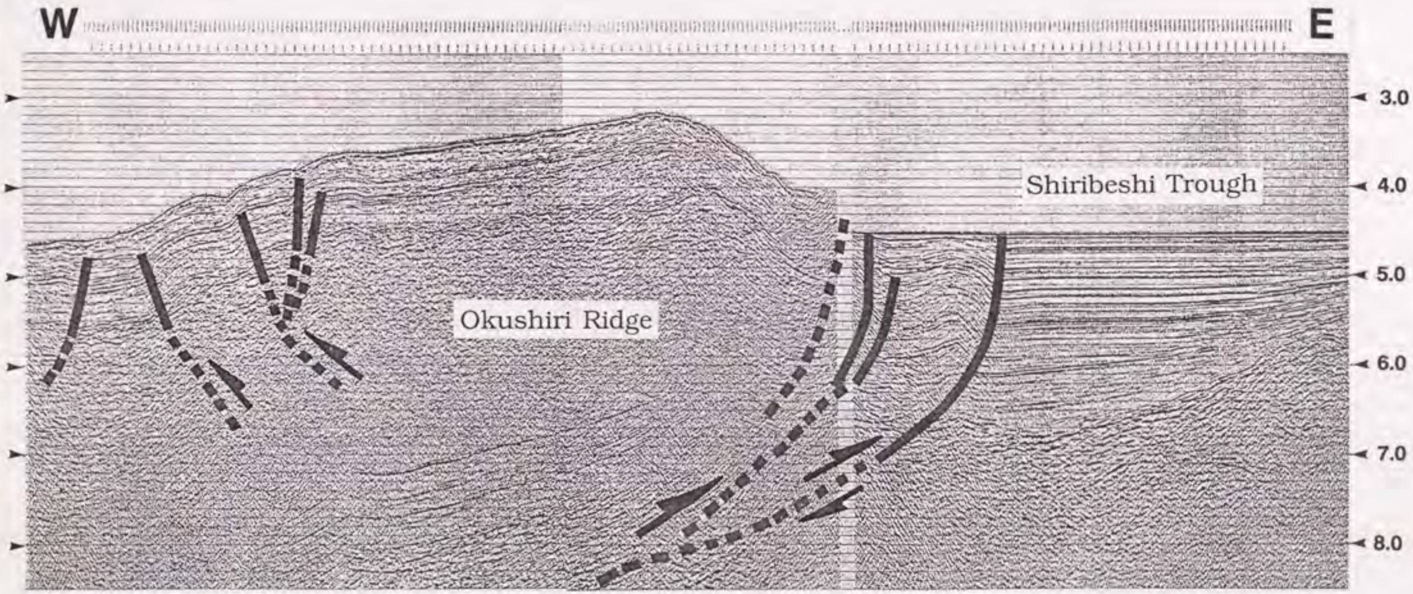
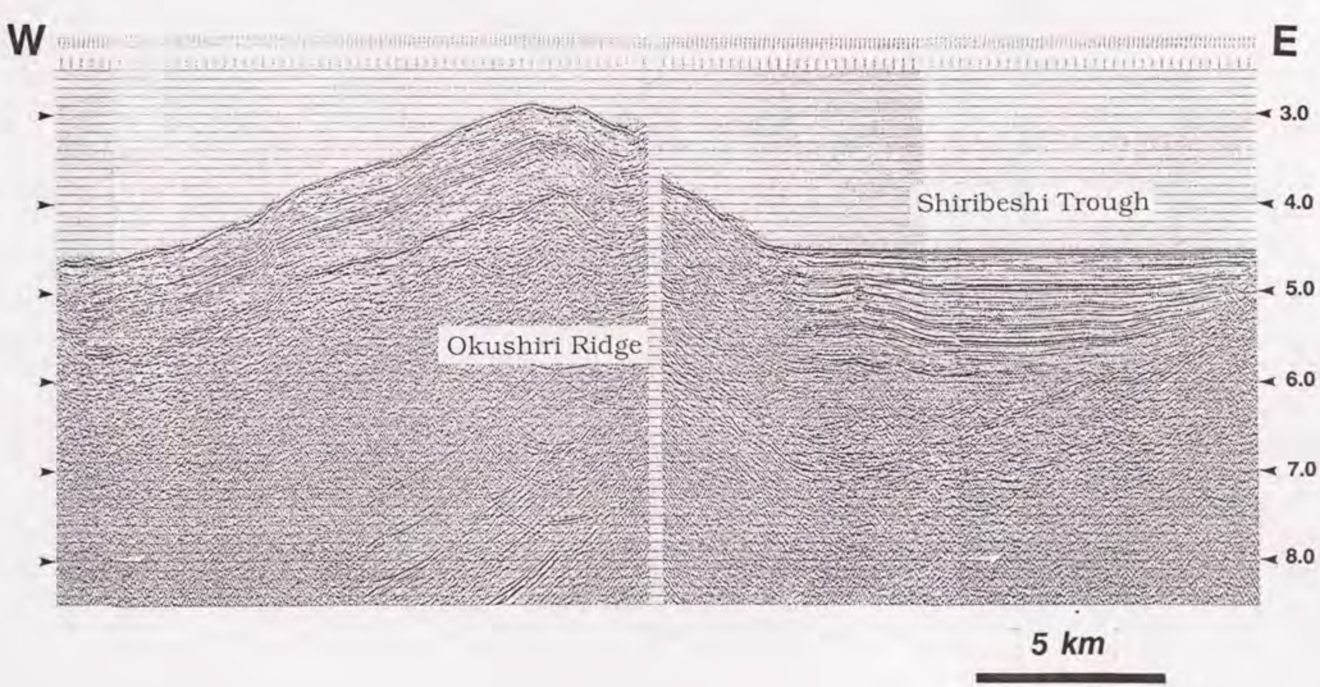

W
E
3.0
4.0
5.0
6.0
7.0
8.0
Shiribeshi Trough
Okushiri Ridge

Figure II-15: Migrated seismic profile of the line-6 of KH-86-2.



W
E
3.0
4.0
5.0
6.0
7.0
8.0
Shiribeshi Trough
Okushiri Ridge
5 km

Figure II-16: Interpreted seismic profile of the line-6.

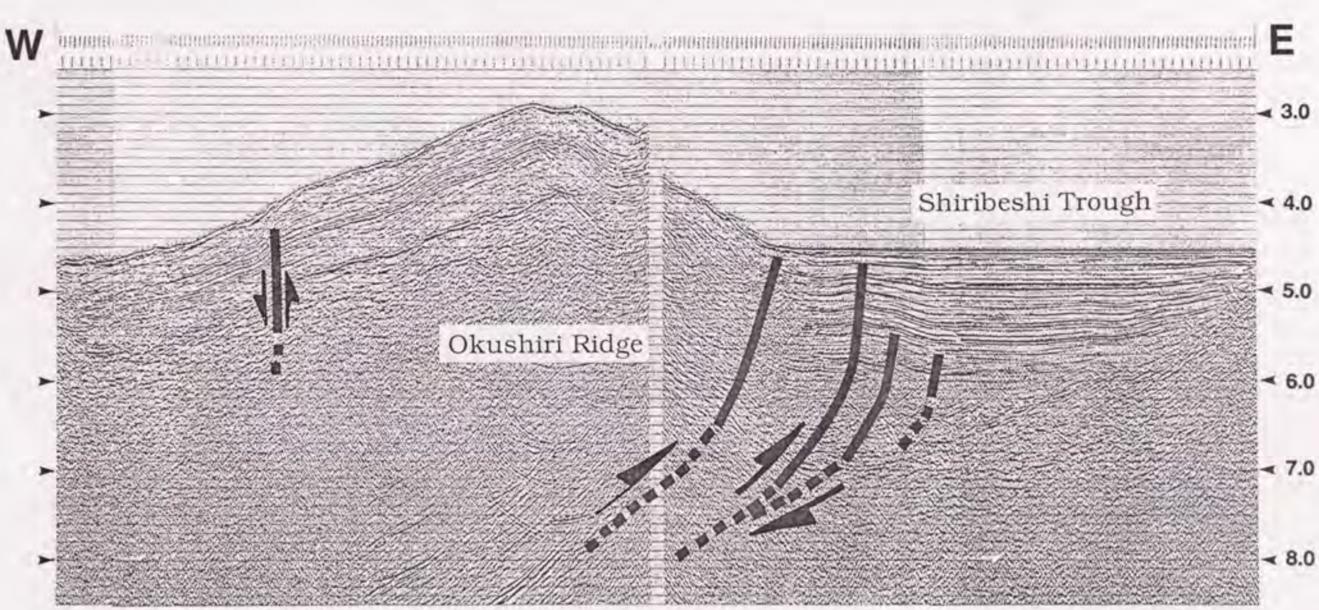

W
E
3.0
4.0
5.0
6.0
7.0
8.0
Shiribeshi Trough
Okushiri Ridge

Figure II-17: Cartoons showing the ways of ophiolite emplacement in nascent back-arc closing. Both subduction and obduction types are relating to the back-thrusting and making ophiolite blocks. Both types will go to a same convergent style. Then the back-arc basin may close. The hatched parts are ophiolite blocks.

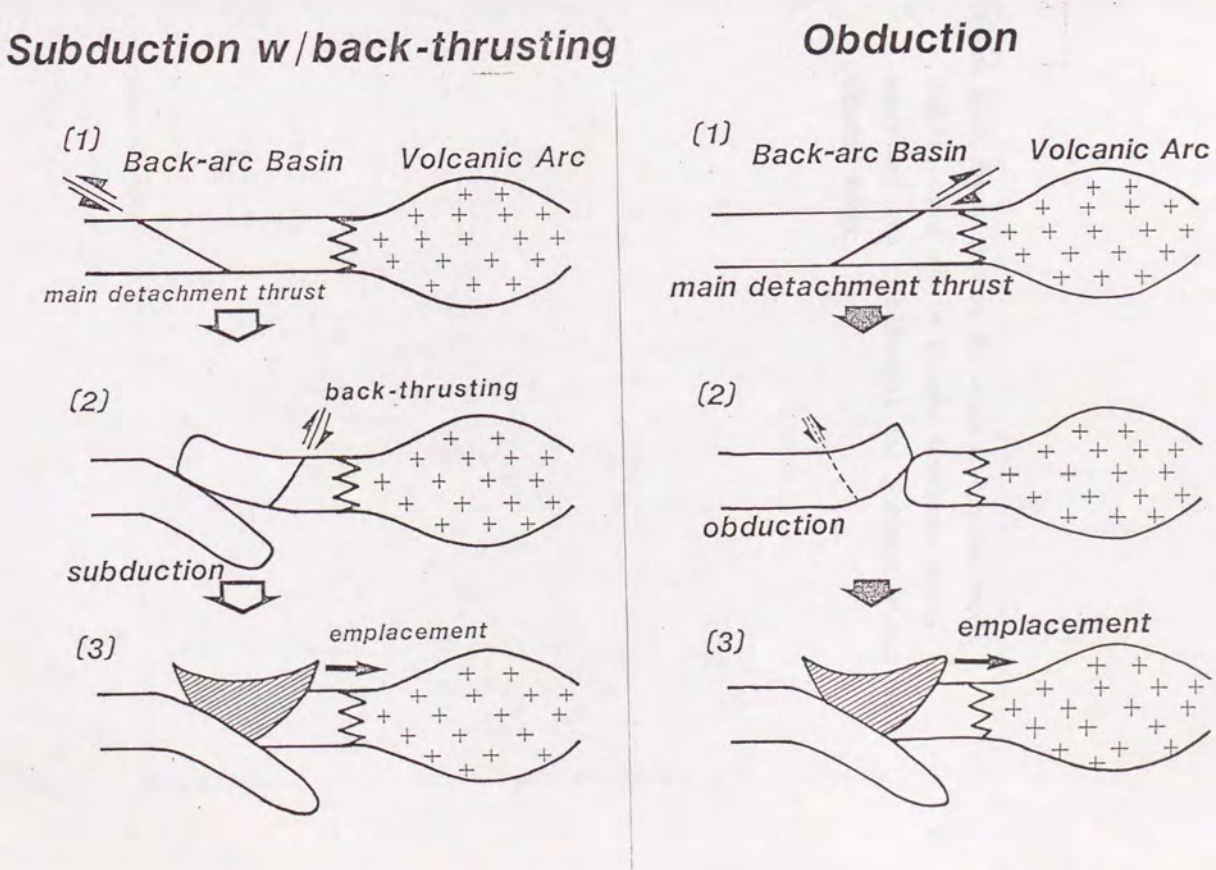
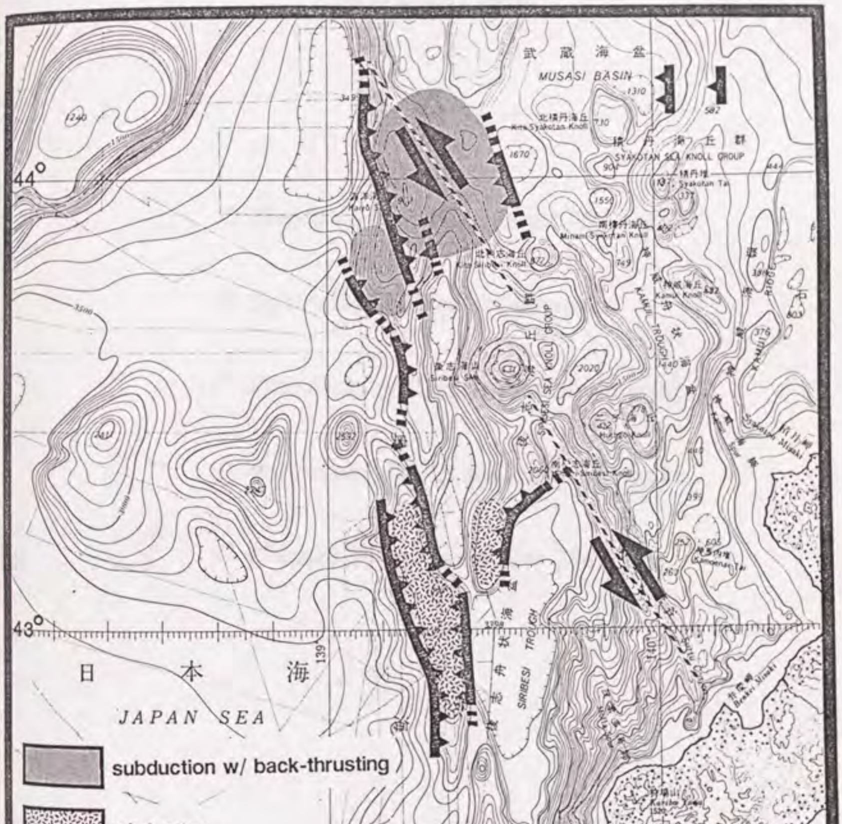

Subduction w/back-thrusting
(1)
Back-arc Basin
Volcanic Arc
main detachment thrust
(2)
back-thrusting
subduction
(3)
emplacement
Obduction
(1)
Back-arc Basin
Volcanic Arc
main detachment thrust
(2)
obduction
(3)
emplacement

Figure II-18: Figure showing the origin of ophiolite blocks (hatched areas) and its tectonic detachment styles, subduction with back-thrusting and obduction around the Okushiri Ridge.



武 蔵 海 盆
MUSASI BASIN
積 丹 海 丘 群
SYAKOTAN SEA KNOLL GROUP
44°
43°
139
日 本 海
JAPAN SEA
SIRIBESI TROUGH
SIRIBESI SEA KNOLL GROUP
KAMUI TROUGH
subduction w/ back-thrusting
obduction

# Appendix

*A: Physical Properties in Sites 794 and 797*

*B: Synthetic Seismogram Program*

*C: Raw Data of Temperature Estimation*

*D: Isothermal Depth Estimation Program*

*E: Physical Properties in Site 796*

# Appendix

## *A: Physical Properties in Sites 794 and 797*

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 1.0 | 1.34 | 2.71 | 84.50 | 64.60 | 5.47 |
| 2.5 | 1.45 | 2.77 | 79.40 | 56.10 | 3.85 |
| 4.0 | 1.33 | 2.59 | 80.50 | 62.01 | 4.14 |
| 5.5 | 1.29 | 2.35 | 82.30 | 65.36 | 4.64 |
| 6.5 | 1.46 | 2.78 | 69.80 | 48.98 | 2.31 |
| 7.8 | 1.42 | 2.59 | 77.70 | 56.06 | 3.49 |
| 9.3 | 1.44 | 2.90 | 83.80 | 59.62 | 5.17 |
| 10.8 | 1.32 | 2.89 | 85.80 | 66.59 | 6.05 |
| 12.3 | 1.44 | 2.66 | 78.90 | 56.13 | 3.74 |
| 13.8 | 1.62 | 2.89 | 70.10 | 44.33 | 2.35 |
| 15.3 | 1.50 | 2.09 | 74.50 | 50.88 | 2.93 |
| 16.3 | 1.37 | 4.60 | 84.50 | 63.19 | 5.47 |
| 17.3 | 1.39 | 2.86 | 80.50 | 59.33 | 4.13 |
| 18.8 | 1.47 | 2.50 | 77.80 | 54.22 | 3.50 |
| 20.3 | 1.48 | 2.66 | 77.60 | 53.72 | 3.47 |
| 21.8 | 1.44 | 2.83 | 83.50 | 59.41 | 5.06 |
| 23.3 | 1.48 | 2.79 | 79.10 | 54.76 | 3.79 |
| 24.8 | 1.59 | 2.65 | 68.00 | 43.82 | 2.12 |
| 25.7 | 1.50 | 2.54 | 74.10 | 50.61 | 2.86 |
| 26.8 | 1.63 | 2.78 | 67.90 | 42.68 | 2.11 |
| 28.3 | 1.49 | 2.48 | 77.90 | 53.56 | 3.53 |
| 29.8 | 1.45 | 2.35 | 78.90 | 55.75 | 3.75 |
| 31.3 | 1.42 | 2.61 | 82.80 | 59.74 | 4.83 |
| 32.8 | 1.59 | 2.87 | 76.00 | 48.97 | 3.17 |
| 34.3 | 1.54 | 2.82 | 72.70 | 48.36 | 2.67 |
| 35.1 | 1.62 | 2.69 | 69.80 | 44.14 | 2.31 |
| 36.3 | 1.42 | 2.62 | 77.60 | 55.99 | 3.47 |
| 37.8 | 2.15 | 3.38 | 64.00 | 30.50 | 1.78 |
| 39.3 | 1.60 | 2.70 | 70.90 | 45.40 | 2.44 |
| 40.8 | 1.46 | 2.69 | 81.20 | 56.98 | 4.32 |
| 42.3 | 1.49 | 2.72 | 79.70 | 54.80 | 3.92 |
| 43.8 | 1.41 | 2.62 | 80.40 | 58.42 | 4.10 |
| 45.8 | 1.37 | 2.40 | 82.50 | 61.69 | 4.70 |
| 47.3 | 1.53 | 2.96 | 85.30 | 57.12 | 5.81 |
| 48.8 | 1.45 | 2.80 | 82.70 | 58.43 | 4.77 |
| 50.3 | 1.44 | 2.68 | 85.40 | 60.76 | 5.87 |
| 51.8 | 1.52 | 2.65 | 78.30 | 52.78 | 3.60 |
| 53.3 | 1.57 | 2.92 | 76.10 | 49.66 | 3.19 |
| 54.3 | 1.69 | 2.68 | 63.20 | 38.31 | 1.72 |
| 55.3 | 1.74 | 2.62 | 60.30 | 35.50 | 1.52 |
| 56.8 | 1.62 | 2.69 | 72.00 | 45.53 | 2.57 |
| 58.3 | 1.74 | 2.75 | 66.60 | 39.21 | 1.99 |
| 59.8 | 1.48 | 2.50 | 75.00 | 51.92 | 2.99 |

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 61.3 | 1.44 | 2.56 | 81.80 | 58.20 | 4.50 |
| 62.8 | 1.54 | 2.76 | 74.60 | 49.63 | 2.94 |
| 63.8 | 1.48 | 2.62 | 80.10 | 55.45 | 4.03 |
| 64.8 | 1.43 | 2.47 | 78.80 | 56.45 | 3.71 |
| 66.3 | 1.48 | 2.71 | 74.80 | 51.78 | 2.97 |
| 67.8 | 1.45 | 2.70 | 80.80 | 57.09 | 4.21 |
| 69.3 | 1.60 | 2.46 | 74.90 | 47.96 | 2.99 |
| 70.8 | 1.41 | 2.59 | 81.70 | 59.36 | 4.48 |
| 72.3 | 1.48 | 2.70 | 76.90 | 53.23 | 3.34 |
| 74.3 | 1.38 | 2.56 | 79.90 | 59.32 | 3.97 |
| 75.8 | 1.47 | 2.61 | 79.90 | 55.69 | 3.97 |
| 77.3 | 1.59 | 2.57 | 82.70 | 53.29 | 4.78 |
| 78.8 | 1.42 | 2.47 | 79.80 | 57.57 | 3.96 |
| 80.3 | 1.30 | 2.37 | 81.30 | 64.07 | 4.36 |
| 81.8 | 1.33 | 2.41 | 80.40 | 61.93 | 4.09 |
| 83.8 | 1.39 | 2.85 | 85.10 | 62.72 | 5.72 |
| 85.3 | 1.44 | 2.23 | 84.00 | 59.76 | 5.26 |
| 86.8 | 1.38 | 2.62 | 81.20 | 60.28 | 4.33 |
| 88.3 | 1.40 | 2.27 | 83.50 | 61.10 | 5.06 |
| 89.8 | 1.44 | 2.57 | 82.90 | 58.98 | 4.84 |
| 91.3 | 1.43 | 2.65 | 80.30 | 57.53 | 4.07 |
| 93.3 | 1.41 | 2.21 | 85.20 | 61.91 | 5.74 |
| 94.8 | 1.40 | 2.46 | 83.60 | 61.18 | 5.11 |
| 96.3 | 1.42 | 2.54 | 85.80 | 61.90 | 6.06 |
| 97.8 | 1.39 | 2.56 | 85.50 | 63.02 | 5.89 |
| 99.3 | 1.40 | 2.84 | 86.60 | 63.37 | 6.45 |
| 100.8 | 1.34 | 1.94 | 80.40 | 61.47 | 4.10 |
| 102.8 | 1.39 | 2.68 | 84.30 | 62.13 | 5.36 |
| 104.3 | 1.37 | 2.53 | 84.00 | 62.82 | 5.26 |
| 105.8 | 1.39 | 2.49 | 86.80 | 63.98 | 6.59 |
| 107.3 | 1.50 | 2.69 | 80.40 | 54.91 | 4.10 |
| 108.8 | 1.34 | 2.43 | 83.10 | 63.53 | 4.93 |
| 110.3 | 1.41 | 2.31 | 83.30 | 60.53 | 5.00 |
| 111.0 | 1.35 | 2.36 | 82.60 | 62.68 | 4.76 |
| 112.3 | 1.32 | 2.46 | 84.00 | 65.20 | 5.26 |
| 113.8 | 1.40 | 2.48 | 83.10 | 60.81 | 4.91 |
| 115.3 | 1.37 | 2.46 | 84.80 | 63.41 | 5.57 |
| 116.8 | 1.42 | 2.68 | 82.20 | 59.31 | 4.63 |
| 118.3 | 1.36 | 2.33 | 82.90 | 62.45 | 4.83 |
| 119.8 | 1.56 | 2.88 | 77.90 | 51.16 | 3.52 |
| 120.7 | 1.47 | 2.37 | 83.00 | 57.85 | 4.90 |
| 121.8 | 1.51 | 2.54 | 78.00 | 52.92 | 3.55 |
| 123.3 | 1.49 | 2.67 | 78.50 | 53.98 | 3.65 |

# ODP Physical Properties Site 794

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 124.8 | 1.44 | 2.68 | 81.00 | 57.63 | 4.28 |
| 126.3 | 1.56 | 2.74 | 71.90 | 47.22 | 2.56 |
| 127.8 | 1.40 | 2.55 | 80.20 | 58.69 | 4.06 |
| 129.3 | 1.51 | 2.76 | 80.10 | 54.35 | 4.03 |
| 130.0 | 1.56 | 2.43 | 76.40 | 50.17 | 3.24 |
| 131.3 | 1.55 | 2.60 | 74.20 | 49.04 | 2.88 |
| 132.8 | 1.31 | 2.23 | 82.80 | 64.75 | 4.80 |
| 134.3 | 1.38 | 2.48 | 80.80 | 59.99 | 4.21 |
| 135.8 | 1.51 | 3.04 | 89.10 | 60.45 | 8.18 |
| 137.3 | 1.39 | 2.28 | 83.00 | 61.18 | 4.87 |
| 138.8 | 1.36 | 2.44 | 81.40 | 61.32 | 4.38 |
| 139.9 | 1.36 | 2.83 | 84.10 | 63.35 | 5.30 |
| 140.8 | 1.43 | 3.10 | 90.00 | 64.48 | 8.95 |
| 142.3 | 1.44 | 2.99 | 86.80 | 61.75 | 6.56 |
| 143.8 | 1.36 | 2.08 | 87.60 | 65.99 | 7.08 |
| 145.3 | 1.34 | 2.51 | 85.30 | 65.22 | 5.79 |
| 146.8 | 1.40 | 2.49 | 90.30 | 66.08 | 9.30 |
| 148.3 | 1.40 | 2.88 | 94.00 | 68.79 | 15.60 |
| 150.5 | 1.33 | 2.45 | 76.10 | 58.62 | 3.18 |
| 152.0 | 1.37 | 1.89 | 88.70 | 66.33 | 7.86 |
| 153.5 | 1.39 | 2.71 | 88.80 | 65.45 | 7.93 |
| 155.0 | 1.34 | 2.48 | 86.90 | 66.44 | 6.65 |
| 155.4 | 1.30 | 2.29 | 85.60 | 67.46 | 5.92 |
| 156.5 | 1.37 | 2.04 | 86.70 | 64.84 | 6.52 |
| 156.9 | 1.30 | 2.32 | 86.00 | 67.77 | 6.15 |
| 157.9 | 1.28 | 2.39 | 87.40 | 69.95 | 6.91 |
| 158.0 | 1.28 | 2.28 | 83.10 | 66.51 | 4.92 |
| 158.8 | 1.37 | 2.98 | 86.80 | 64.91 | 6.56 |
| 164.5 | 2.89 | 3.10 | 29.50 | 10.46 | 0.42 |
| 165.0 | 1.32 | 2.36 | 83.30 | 64.65 | 4.99 |
| 169.5 | 1.32 | 1.95 | 80.10 | 62.17 | 4.03 |
| 171.0 | 1.41 | 2.23 | 87.20 | 63.36 | 6.80 |
| 172.5 | 1.38 | 2.57 | 86.00 | 63.85 | 6.14 |
| 174.0 | 1.37 | 2.34 | 87.00 | 65.06 | 6.68 |
| 175.5 | 1.42 | 2.58 | 89.20 | 64.36 | 8.26 |
| 179.2 | 1.32 | 1.69 | 82.20 | 63.80 | 4.63 |
| 180.7 | 1.37 | 2.24 | 84.70 | 63.34 | 5.52 |
| 182.2 | 1.43 | 2.79 | 85.20 | 61.04 | 5.76 |
| 183.7 | 1.40 | 2.97 | 85.10 | 62.27 | 5.71 |
| 185.2 | 1.36 | 2.48 | 85.40 | 64.33 | 5.84 |
| 186.7 | 1.43 | 2.29 | 84.10 | 60.25 | 5.28 |
| 187.5 | 1.43 | 2.67 | 88.60 | 63.48 | 7.73 |
| 189.0 | 1.31 | 2.41 | 83.50 | 65.30 | 5.04 |

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 190.5 | 1.38 | 2.61 | 83.80 | 62.21 | 5.16 |
| 192.0 | 1.31 | 2.33 | 82.20 | 64.29 | 4.62 |
| 193.5 | 1.30 | 2.29 | 78.00 | 61.47 | 3.55 |
| 194.7 | 1.35 | 2.57 | 87.30 | 66.25 | 6.90 |
| 198.6 | 1.32 | 2.11 | 82.40 | 63.95 | 4.68 |
| 200.1 | 1.36 | 2.32 | 84.50 | 63.65 | 5.45 |
| 201.6 | 1.33 | 2.35 | 85.50 | 65.86 | 5.88 |
| 203.1 | 1.37 | 2.45 | 87.70 | 65.58 | 7.10 |
| 204.6 | 1.27 | 2.30 | 79.00 | 63.73 | 3.76 |
| 206.1 | 1.34 | 2.17 | 82.10 | 62.77 | 4.58 |
| 208.2 | 1.37 | 2.30 | 86.00 | 64.31 | 6.16 |
| 209.7 | 1.33 | 2.55 | 88.30 | 68.02 | 7.55 |
| 211.2 | 1.37 | 2.51 | 85.30 | 63.79 | 5.82 |
| 212.7 | 1.30 | 2.21 | 85.60 | 67.46 | 5.92 |
| 213.2 | 1.34 | 2.53 | 84.40 | 64.53 | 5.40 |
| 214.2 | 1.27 | 1.99 | 84.30 | 68.00 | 5.37 |
| 214.7 | 1.32 | 2.36 | 84.60 | 65.66 | 5.51 |
| 215.7 | 1.37 | 2.49 | 83.30 | 62.29 | 5.00 |
| 216.2 | 1.32 | 2.38 | 86.80 | 67.37 | 6.59 |
| 217.7 | 1.29 | 2.22 | 87.20 | 69.25 | 6.82 |
| 222.9 | 1.31 | 2.46 | 87.10 | 68.12 | 6.77 |
| 227.5 | 1.27 | 2.36 | 87.20 | 70.34 | 6.81 |
| 229.0 | 1.27 | 2.30 | 87.20 | 70.34 | 6.83 |
| 230.5 | 1.27 | 2.38 | 85.70 | 69.13 | 5.98 |
| 232.0 | 1.27 | 2.13 | 87.70 | 70.75 | 7.12 |
| 232.8 | 1.89 | 2.91 | 59.90 | 32.47 | 1.50 |
| 233.5 | 1.25 | 2.28 | 87.10 | 71.39 | 6.75 |
| 237.2 | 1.35 | 2.54 | 90.60 | 68.76 | 9.69 |
| 238.7 | 1.30 | 2.54 | 87.00 | 68.56 | 6.68 |
| 240.2 | 1.26 | 2.48 | 85.20 | 69.28 | 5.77 |
| 241.7 | 1.36 | 2.77 | 89.10 | 67.12 | 8.14 |
| 243.2 | 1.30 | 2.01 | 87.90 | 69.27 | 7.29 |
| 244.7 | 1.34 | 2.29 | 85.10 | 65.06 | 5.70 |
| 247.0 | 1.26 | 2.27 | 86.20 | 70.09 | 6.25 |
| 248.5 | 1.31 | 2.14 | 85.20 | 66.63 | 5.75 |
| 250.0 | 1.30 | 2.43 | 88.40 | 69.67 | 7.64 |
| 251.5 | 1.32 | 2.32 | 90.30 | 70.09 | 9.28 |
| 253.0 | 1.35 | 2.79 | 89.90 | 68.22 | 8.86 |
| 254.5 | 1.25 | 2.41 | 86.30 | 70.73 | 6.31 |
| 256.7 | 1.32 | 2.42 | 87.40 | 67.83 | 6.96 |
| 257.9 | 1.30 | 2.36 | 88.40 | 69.67 | 7.63 |
| 266.2 | 1.34 | 2.23 | 86.90 | 66.44 | 6.66 |
| 267.7 | 1.32 | 2.33 | 86.40 | 67.06 | 6.37 |

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 269.2 | 1.44 | 2.72 | 85.70 | 60.97 | 6.00 |
| 270.7 | 1.34 | 2.57 | 86.80 | 66.36 | 6.60 |
| 272.2 | 1.35 | 2.53 | 81.80 | 62.08 | 4.51 |
| 273.7 | 1.31 | 1.90 | 89.80 | 70.23 | 8.81 |
| 273.9 | 1.31 | 1.90 | 89.80 | 70.23 | 8.81 |
| 276.1 | 1.28 | 2.49 | 85.70 | 68.59 | 5.97 |
| 277.6 | 1.30 | 2.53 | 88.70 | 69.90 | 7.82 |
| 279.1 | 1.38 | 2.20 | 84.60 | 62.81 | 5.50 |
| 280.6 | 1.40 | 2.80 | 87.10 | 63.74 | 6.73 |
| 282.1 | 1.43 | 2.91 | 86.60 | 62.04 | 6.49 |
| 285.6 | 1.32 | 2.29 | 86.00 | 66.75 | 6.16 |
| 287.1 | 1.28 | 2.08 | 85.90 | 68.75 | 6.08 |
| 288.6 | 1.33 | 2.76 | 88.80 | 68.40 | 7.93 |
| 290.1 | 1.33 | 2.56 | 88.50 | 68.17 | 7.71 |
| 291.6 | 1.36 | 2.86 | 89.40 | 67.35 | 8.47 |
| 293.1 | 1.32 | 2.23 | 82.40 | 63.95 | 4.70 |
| 294.5 | 1.37 | 2.61 | 80.50 | 60.20 | 4.12 |
| 296.0 | 1.47 | 2.59 | 80.50 | 56.10 | 4.12 |
| 297.5 | 1.52 | 2.57 | 74.40 | 50.15 | 2.91 |
| 304.3 | 1.50 | 2.70 | 75.80 | 51.77 | 3.13 |
| 305.8 | 1.65 | 2.68 | 69.00 | 42.84 | 2.23 |
| 307.3 | 1.64 | 2.80 | 74.30 | 46.41 | 2.89 |
| 308.8 | 1.61 | 2.84 | 75.50 | 48.04 | 3.09 |
| 310.3 | 1.72 | 2.78 | 72.90 | 43.42 | 2.69 |
| 311.8 | 1.62 | 2.54 | 66.70 | 42.18 | 2.00 |
| 312.6 | 1.67 | 2.65 | 73.20 | 44.91 | 2.73 |
| 313.9 | 2.03 | 3.11 | 61.80 | 31.19 | 1.62 |
| 315.2 | 1.72 | 2.77 | 70.40 | 41.93 | 2.38 |
| 315.8 | 1.71 | 2.64 | 71.60 | 42.90 | 2.53 |
| 323.2 | 1.61 | 2.32 | 66.10 | 42.06 | 1.95 |
| 324.7 | 1.68 | 2.58 | 68.10 | 41.53 | 2.14 |
| 326.2 | 1.66 | 2.51 | 69.00 | 42.58 | 2.23 |
| 327.7 | 1.67 | 2.60 | 72.10 | 44.23 | 2.58 |
| 329.2 | 1.59 | 2.52 | 72.30 | 46.59 | 2.61 |
| 330.7 | 1.56 | 2.51 | 69.90 | 45.91 | 2.32 |
| 331.4 | 1.56 | 2.64 | 74.50 | 48.93 | 2.92 |
| 332.9 | 1.42 | 2.72 | 77.60 | 55.99 | 3.47 |
| 334.4 | 1.51 | 2.51 | 72.50 | 49.19 | 2.64 |
| 335.9 | 1.56 | 2.49 | 68.70 | 45.12 | 2.19 |
| 337.4 | 1.63 | 2.46 | 69.00 | 43.37 | 2.22 |
| 338.4 | 1.65 | 2.68 | 69.40 | 43.09 | 2.26 |
| 339.3 | 1.58 | 2.43 | 69.70 | 45.19 | 2.30 |
| 340.8 | 1.58 | 2.50 | 72.50 | 47.01 | 2.63 |

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 342.3 | 1.70 | 2.66 | 71.00 | 42.79 | 2.45 |
| 342.6 | 1.52 | 2.66 | 76.90 | 51.83 | 3.33 |
| 344.1 | 1.56 | 2.43 | 74.50 | 48.93 | 2.92 |
| 345.6 | 1.53 | 2.87 | 79.40 | 53.17 | 3.86 |
| 376.1 | 1.98 | 2.29 | 42.60 | 22.04 | 0.74 |
| 386.8 | 1.66 | 2.77 | 67.50 | 41.66 | 2.08 |
| 387.8 | 1.95 | 3.39 | 71.50 | 37.57 | 2.51 |
| 395.8 | 1.84 | 2.88 | 58.90 | 32.80 | 1.43 |
| 405.9 | 1.74 | 2.72 | 63.60 | 37.45 | 1.75 |
| 406.0 | 1.88 | 2.53 | 48.90 | 26.65 | 0.96 |
| 407.5 | 1.84 | 2.61 | 51.70 | 28.79 | 1.07 |
| 415.7 | 1.90 | 2.62 | 46.70 | 25.18 | 0.87 |
| 416.9 | 2.07 | 2.72 | 48.40 | 23.95 | 0.94 |
| 418.1 | 2.37 | 2.86 | 35.50 | 15.35 | 0.55 |
| 425.1 | 1.90 | 2.73 | 52.20 | 28.15 | 1.09 |
| 426.6 | 1.89 | 2.74 | 60.60 | 32.85 | 1.54 |
| 434.4 | 1.98 | 2.52 | 43.50 | 22.51 | 0.77 |
| 436.4 | 2.04 | 2.53 | 41.00 | 20.59 | 0.69 |
| 445.3 | 1.86 | 2.67 | 51.50 | 28.37 | 1.06 |
| 445.7 | 1.90 | 2.55 | 56.20 | 30.30 | 1.28 |
| 446.9 | 2.52 | 2.71 | 21.90 | 8.90 | 0.28 |
| 453.6 | 1.81 | 2.61 | 56.00 | 31.70 | 1.27 |
| 463.3 | 1.76 | 2.56 | 59.20 | 34.46 | 1.45 |
| 473.3 | 1.92 | 2.62 | 53.40 | 28.49 | 1.15 |
| 474.8 | 2.00 | 2.71 | 52.40 | 26.84 | 1.10 |
| 475.6 | 2.15 | 2.65 | 46.70 | 22.25 | 0.88 |
| 482.5 | 1.82 | 2.64 | 56.20 | 31.64 | 1.28 |
| 485.3 | 1.94 | 2.54 | 50.60 | 26.72 | 1.02 |
| 492.7 | 1.54 | 2.83 | 80.80 | 53.75 | 4.20 |
| 494.2 | 1.54 | 2.63 | 74.70 | 49.69 | 2.95 |
| 495.7 | 1.65 | 2.75 | 74.00 | 45.95 | 2.84 |
| 498.8 | 1.55 | 2.56 | 75.90 | 50.17 | 3.16 |
| 501.7 | 1.73 | 2.86 | 67.00 | 39.68 | 2.03 |
| 511.3 | 1.89 | 2.77 | 57.80 | 31.33 | 1.37 |
| 521.6 | 1.93 | 2.91 | 52.90 | 28.08 | 1.12 |
| 524.3 | 1.60 | 2.77 | 72.50 | 46.42 | 2.64 |
| 524.4 | 1.68 | 2.82 | 72.80 | 44.40 | 2.67 |
| 526.5 | 1.82 | 2.74 | 60.40 | 34.00 | 1.52 |
| 527.5 | 2.16 | 2.99 | 56.80 | 26.94 | 1.32 |
| 530.4 | 1.85 | 2.92 | 61.40 | 34.00 | 1.59 |
| 541.1 | 2.06 | 2.78 | 46.70 | 23.23 | 0.88 |
| 542.4 | 2.23 | 2.67 | 39.70 | 18.24 | 0.66 |
| 542.5 | 2.49 | 2.71 | 17.70 | 7.28 | 0.22 |

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 542.7 | 2.55 | 2.71 | 12.00 | 4.82 | 0.14 |
| 544.8 | 2.62 | 2.72 | 9.20 | 3.60 | 0.10 |
| 560.28 | 2.64 | 2.74 | 9.90 | 3.84 | 0.11 |
| 564.74 | 2.63 | 2.76 | 9.50 | 3.70 | 0.10 |
| 573.22 | 2.69 | 2.77 | 7.60 | 2.89 | 0.08 |
| 581.94 | 2.71 | 2.77 | 6.50 | 2.46 | 0.07 |
| 583.02 | 2.72 | 2.78 | 6.90 | 2.60 | 0.07 |
| 584.53 | 2.72 | 2.79 | 7.40 | 2.79 | 0.08 |
| 585.92 | 2.65 | 2.79 | 9.70 | 3.75 | 0.11 |
| 586.72 | 2.53 | 2.73 | 15.40 | 6.24 | 0.18 |
| 588.21 | 2.58 | 2.77 | 13.40 | 5.32 | 0.15 |
| 592.07 | 2.55 | 2.73 | 12.10 | 4.86 | 0.14 |
| 601.36 | 2.47 | 2.74 | 18.70 | 7.76 | 0.23 |
| 602.29 | 2.46 | 2.76 | 20.60 | 8.58 | 0.26 |
| 605.12 | 2.56 | 2.76 | 14.40 | 5.76 | 0.17 |
| 615.91 | 2.48 | 2.73 | 18.20 | 7.52 | 0.22 |
| 624.00 | 2.54 | 2.77 | 16.20 | 6.53 | 0.19 |
| 625.32 | 2.56 | 2.77 | 16.10 | 6.44 | 0.19 |
| 627.80 | 2.57 | 2.79 | 14.20 | 5.66 | 0.17 |
| 628.95 | 2.55 | 2.77 | 16.00 | 6.43 | 0.19 |
| 634.55 | 2.48 | 2.73 | 17.70 | 7.31 | 0.21 |
| 635.34 | 2.52 | 2.79 | 19.00 | 7.72 | 0.23 |
| 637.06 | 2.57 | 2.82 | 19.00 | 7.57 | 0.23 |
| 637.89 | 2.52 | 2.81 | 20.70 | 8.42 | 0.26 |
| 639.53 | 2.60 | 2.81 | 15.30 | 6.03 | 0.18 |
| 641.58 | 2.54 | 2.78 | 18.20 | 7.34 | 0.22 |
| 642.96 | 2.46 | 2.72 | 19.00 | 7.91 | 0.23 |
| 643.21 | 2.44 | 2.73 | 20.10 | 8.44 | 0.25 |
| 643.91 | 2.47 | 2.67 | 17.00 | 7.05 | 0.20 |
| 644.80 | 2.19 | 2.67 | 38.00 | 17.78 | 0.61 |
| 645.25 | 2.14 | 2.65 | 35.10 | 16.80 | 0.54 |
| 646.13 | 2.50 | 2.70 | 15.50 | 6.35 | 0.18 |

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 2.5 | 1.42 | 2.71 | 81.60 | 58.87 | 4.42 |
| 4.0 | 1.40 | 2.58 | 81.00 | 59.27 | 4.27 |
| 4.4 | 1.46 | 2.75 | 79.40 | 55.72 | 3.84 |
| 5.4 | 1.35 | 2.56 | 85.70 | 65.04 | 5.98 |
| 5.9 | 1.38 | 2.67 | 85.50 | 63.47 | 5.88 |
| 6.9 | 1.33 | 2.48 | 86.50 | 66.63 | 6.41 |
| 7.4 | 1.36 | 2.60 | 84.70 | 63.81 | 5.52 |
| 8.4 | 1.40 | 2.71 | 81.30 | 59.49 | 4.34 |
| 8.9 | 1.36 | 2.77 | 86.90 | 65.46 | 6.66 |
| 9.9 | 1.43 | 2.60 | 81.30 | 58.25 | 4.36 |
| 10.4 | 1.58 | 2.60 | 72.50 | 47.01 | 2.64 |
| 11.4 | 1.39 | 2.61 | 83.90 | 61.84 | 5.19 |
| 11.9 | 1.47 | 2.60 | 72.80 | 50.74 | 2.67 |
| 12.9 | 1.42 | 2.03 | 82.00 | 59.16 | 4.56 |
| 14.4 | 1.45 | 2.58 | 79.80 | 56.38 | 3.94 |
| 15.4 | 1.30 | 2.44 | 87.00 | 68.56 | 6.69 |
| 16.4 | 1.35 | 2.67 | 84.90 | 64.43 | 5.62 |
| 17.9 | 1.46 | 2.78 | 80.20 | 56.28 | 4.05 |
| 19.4 | 1.54 | 2.75 | 75.40 | 50.16 | 3.07 |
| 20.9 | 1.41 | 2.56 | 83.50 | 60.67 | 5.06 |
| 22.4 | 1.35 | 2.51 | 86.20 | 65.42 | 6.26 |
| 23.9 | 1.54 | 2.80 | 75.90 | 50.49 | 3.15 |
| 24.8 | 1.58 | 2.77 | 74.80 | 48.50 | 2.97 |
| 25.9 | 1.35 | 2.70 | 86.20 | 65.42 | 6.23 |
| 27.4 | 1.41 | 2.45 | 81.10 | 58.93 | 4.28 |
| 28.9 | 1.44 | 2.54 | 79.90 | 56.85 | 3.98 |
| 30.4 | 1.49 | 2.55 | 78.30 | 53.84 | 3.60 |
| 31.9 | 1.44 | 2.66 | 86.80 | 61.75 | 6.57 |
| 33.4 | 1.55 | 2.82 | 76.70 | 50.70 | 3.29 |
| 34.3 | 1.49 | 2.51 | 78.60 | 54.04 | 3.67 |
| 35.4 | 1.62 | 2.88 | 72.80 | 46.04 | 2.68 |
| 36.9 | 1.50 | 2.51 | 76.90 | 52.52 | 3.33 |
| 38.4 | 1.42 | 2.70 | 83.20 | 60.03 | 4.94 |
| 39.8 | 1.96 | 2.63 | 62.00 | 32.41 | 1.63 |
| 39.9 | 1.41 | 2.46 | 83.30 | 60.53 | 4.98 |
| 41.4 | 1.51 | 2.57 | 75.20 | 51.02 | 3.04 |
| 42.9 | 1.53 | 2.52 | 71.60 | 47.94 | 2.52 |
| 43.8 | 1.43 | 2.62 | 77.80 | 55.74 | 3.50 |
| 44.9 | 1.44 | 2.79 | 83.50 | 59.41 | 5.07 |
| 46.4 | 1.44 | 2.59 | 81.40 | 57.91 | 4.39 |
| 47.9 | 1.47 | 2.55 | 79.40 | 55.34 | 3.86 |
| 49.4 | 1.44 | 2.47 | 81.20 | 57.77 | 4.33 |
| 50.9 | 1.53 | 2.65 | 75.20 | 50.35 | 3.04 |

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 52.4 | 1.53 | 2.65 | 75.20 | 50.35 | 3.04 |
| 53.3 | 1.52 | 2.62 | 76.30 | 51.43 | 3.23 |
| 54.4 | 1.63 | 2.77 | 72.00 | 45.25 | 2.57 |
| 55.9 | 1.36 | 2.47 | 84.50 | 63.65 | 5.46 |
| 57.4 | 1.37 | 2.65 | 83.60 | 62.52 | 5.09 |
| 58.9 | 1.47 | 2.72 | 81.30 | 56.66 | 4.33 |
| 60.4 | 1.41 | 2.49 | 80.20 | 58.27 | 4.06 |
| 61.9 | 1.62 | 2.78 | 72.60 | 45.91 | 2.65 |
| 62.8 | 1.39 | 2.48 | 81.90 | 60.36 | 4.53 |
| 63.9 | 1.39 | 2.54 | 83.20 | 61.32 | 4.96 |
| 65.4 | 1.57 | 2.59 | 72.00 | 46.98 | 2.57 |
| 66.9 | 1.54 | 2.55 | 76.20 | 50.69 | 3.20 |
| 68.4 | 1.38 | 2.49 | 84.10 | 62.44 | 5.28 |
| 69.9 | 1.36 | 2.69 | 84.40 | 63.58 | 5.40 |
| 71.4 | 1.38 | 2.57 | 84.20 | 62.51 | 5.31 |
| 72.4 | 1.52 | 2.63 | 77.30 | 52.10 | 3.40 |
| 73.4 | 1.51 | 3.01 | 77.90 | 52.85 | 3.53 |
| 74.9 | 1.69 | 2.76 | 69.80 | 42.31 | 2.32 |
| 76.4 | 1.44 | 2.72 | 81.30 | 57.84 | 4.35 |
| 77.9 | 1.40 | 2.64 | 84.60 | 61.91 | 5.51 |
| 79.4 | 1.54 | 2.68 | 74.90 | 49.83 | 2.98 |
| 80.9 | 1.48 | 2.64 | 80.80 | 55.93 | 4.22 |
| 82.9 | 1.41 | 2.63 | 84.30 | 61.25 | 5.38 |
| 84.4 | 1.48 | 2.67 | 78.80 | 54.55 | 3.71 |
| 85.9 | 1.43 | 2.63 | 81.40 | 58.32 | 4.37 |
| 87.4 | 1.39 | 2.48 | 83.10 | 61.25 | 4.90 |
| 88.9 | 1.55 | 2.66 | 75.90 | 50.17 | 3.15 |
| 90.4 | 2.69 | 2.66 | 54.35 | 20.70 | 1.40 |
| 92.4 | 1.41 | 2.62 | 82.90 | 60.23 | 4.86 |
| 93.9 | 1.47 | 2.62 | 80.40 | 56.03 | 4.09 |
| 95.4 | 1.57 | 2.76 | 79.10 | 51.62 | 3.79 |
| 96.9 | 1.42 | 2.47 | 80.90 | 58.37 | 4.24 |
| 98.4 | 1.28 | 2.43 | 67.90 | 54.35 | 2.12 |
| 99.9 | 1.42 | 2.45 | 81.40 | 58.73 | 4.39 |
| 100.9 | 1.59 | 2.72 | 73.90 | 47.62 | 2.83 |
| 101.9 | 1.39 | 2.52 | 82.90 | 61.10 | 4.86 |
| 103.4 | 1.37 | 2.48 | 84.10 | 62.89 | 5.29 |
| 104.9 | 1.40 | 2.51 | 83.80 | 61.32 | 5.17 |
| 106.4 | 1.71 | 2.70 | 66.80 | 40.02 | 2.01 |
| 107.9 | 1.38 | 2.46 | 83.60 | 62.06 | 5.12 |
| 109.4 | 1.36 | 2.28 | 82.70 | 62.30 | 4.77 |
| 110.4 | 1.42 | 2.60 | 79.20 | 57.14 | 3.82 |
| 111.4 | 1.34 | 2.39 | 86.20 | 65.90 | 6.24 |

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 112.9 | 1.52 | 2.55 | 76.50 | 51.56 | 3.26 |
| 114.4 | 1.35 | 2.50 | 83.40 | 63.29 | 5.02 |
| 115.9 | 1.35 | 2.39 | 82.20 | 62.38 | 4.63 |
| 117.4 | 1.36 | 2.40 | 82.80 | 62.37 | 4.82 |
| 118.9 | 1.41 | 2.50 | 80.40 | 58.42 | 4.11 |
| 120.9 | 1.42 | 2.58 | 82.70 | 59.67 | 4.79 |
| 122.4 | 1.39 | 2.41 | 83.10 | 61.25 | 4.91 |
| 123.9 | 1.44 | 2.47 | 81.70 | 58.13 | 4.47 |
| 125.4 | 1.46 | 2.70 | 82.90 | 58.17 | 4.85 |
| 126.9 | 1.46 | 2.61 | 82.40 | 57.82 | 4.67 |
| 130.4 | 1.43 | 2.60 | 84.30 | 60.40 | 5.38 |
| 131.9 | 1.40 | 2.53 | 85.30 | 62.42 | 5.81 |
| 133.4 | 1.50 | 2.71 | 78.50 | 53.62 | 3.65 |
| 134.9 | 1.46 | 2.68 | 83.70 | 58.73 | 5.13 |
| 136.4 | 1.41 | 2.59 | 82.90 | 60.23 | 4.84 |
| 137.9 | 1.41 | 2.50 | 80.10 | 58.20 | 4.02 |
| 138.9 | 1.40 | 2.56 | 83.80 | 61.32 | 5.15 |
| 139.9 | 1.40 | 2.57 | 88.70 | 64.91 | 7.86 |
| 141.4 | 1.46 | 2.41 | 84.80 | 59.51 | 5.60 |
| 142.8 | 1.56 | 2.82 | 82.50 | 54.18 | 4.71 |
| 144.4 | 1.41 | 2.50 | 84.90 | 61.69 | 5.62 |
| 145.9 | 1.46 | 2.50 | 78.20 | 54.87 | 3.59 |
| 147.4 | 1.47 | 2.62 | 86.00 | 59.94 | 6.15 |
| 148.1 | 1.39 | 2.45 | 86.90 | 64.05 | 6.61 |
| 149.4 | 1.38 | 2.65 | 84.80 | 62.95 | 5.59 |
| 150.1 | 1.40 | 2.65 | 87.40 | 63.96 | 6.94 |
| 151.9 | 1.43 | 2.51 | 84.50 | 60.54 | 5.45 |
| 153.3 | 1.45 | 2.69 | 85.70 | 60.55 | 6.00 |
| 154.8 | 1.42 | 2.31 | 80.70 | 58.22 | 4.17 |
| 156.3 | 1.42 | 2.58 | 85.40 | 61.61 | 5.83 |
| 158.9 | 1.40 | 2.49 | 82.40 | 60.30 | 4.67 |
| 160.4 | 1.37 | 2.43 | 83.90 | 62.74 | 5.20 |
| 161.9 | 1.45 | 2.36 | 80.10 | 56.59 | 4.03 |
| 163.4 | 1.46 | 2.54 | 80.50 | 56.49 | 4.13 |
| 164.9 | 1.44 | 2.59 | 81.90 | 58.27 | 4.53 |
| 165.9 | 1.43 | 2.63 | 83.80 | 60.04 | 5.16 |
| 167.4 | 1.34 | 2.21 | 84.50 | 64.60 | 5.45 |
| 168.9 | 1.38 | 2.48 | 85.20 | 63.25 | 5.74 |
| 170.4 | 1.34 | 2.06 | 81.50 | 62.31 | 4.40 |
| 171.9 | 1.36 | 2.26 | 82.40 | 62.07 | 4.67 |
| 173.4 | 1.36 | 2.32 | 83.10 | 62.60 | 4.90 |
| 174.9 | 1.38 | 2.34 | 85.30 | 63.33 | 5.82 |
| 175.9 | 1.40 | 2.42 | 75.40 | 55.18 | 3.06 |

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 181.4 | 1.35 | 2.56 | 87.70 | 66.55 | 7.13 |
| 183.0 | 1.33 | 2.19 | 82.70 | 63.70 | 4.79 |
| 186.5 | 1.35 | 2.40 | 87.10 | 66.10 | 6.75 |
| 188.0 | 1.36 | 2.61 | 88.80 | 66.89 | 7.93 |
| 189.5 | 1.32 | 2.29 | 84.40 | 65.51 | 5.40 |
| 191.0 | 1.39 | 2.36 | 88.10 | 64.93 | 7.40 |
| 191.7 | 1.39 | 2.33 | 84.90 | 62.58 | 5.61 |
| 196.2 | 1.35 | 2.21 | 89.10 | 67.62 | 8.15 |
| 197.7 | 1.40 | 2.52 | 87.90 | 64.32 | 7.25 |
| 199.2 | 1.37 | 2.16 | 87.00 | 65.06 | 6.67 |
| 200.7 | 1.35 | 2.32 | 87.60 | 66.48 | 7.09 |
| 202.2 | 1.42 | 2.44 | 87.40 | 63.06 | 6.93 |
| 205.8 | 1.36 | 2.55 | 87.30 | 65.76 | 6.89 |
| 207.3 | 1.40 | 2.42 | 85.70 | 62.71 | 6.01 |
| 208.8 | 1.37 | 2.72 | 84.90 | 63.49 | 5.63 |
| 210.3 | 1.35 | 2.50 | 86.60 | 65.72 | 6.44 |
| 211.8 | 1.36 | 2.23 | 84.90 | 63.96 | 5.61 |
| 213.3 | 1.49 | 2.37 | 78.70 | 54.11 | 3.70 |
| 215.3 | 1.42 | 2.24 | 78.90 | 56.92 | 3.74 |
| 216.8 | 1.47 | 2.62 | 85.00 | 59.24 | 5.68 |
| 218.3 | 1.33 | 2.18 | 83.00 | 63.93 | 4.87 |
| 219.8 | 1.45 | 2.50 | 85.10 | 60.13 | 5.72 |
| 221.3 | 1.38 | 2.42 | 81.00 | 60.13 | 4.28 |
| 222.8 | 1.46 | 2.91 | 82.00 | 57.54 | 4.56 |
| 223.6 | 1.42 | 2.36 | 86.10 | 62.12 | 6.18 |
| 225.0 | 1.47 | 1.92 | 84.30 | 58.75 | 5.36 |
| 226.5 | 1.35 | 2.05 | 84.90 | 64.43 | 5.63 |
| 228.0 | 1.39 | 2.41 | 84.30 | 62.13 | 5.35 |
| 229.5 | 1.39 | 2.55 | 86.50 | 63.75 | 6.43 |
| 231.0 | 1.47 | 2.47 | 84.60 | 58.96 | 5.50 |
| 232.5 | 1.41 | 2.36 | 84.90 | 61.69 | 5.61 |
| 233.3 | 1.43 | 2.34 | 82.00 | 58.75 | 4.55 |
| 234.7 | 1.38 | 2.32 | 83.70 | 62.14 | 5.12 |
| 236.2 | 1.35 | 2.50 | 87.90 | 66.71 | 7.25 |
| 237.7 | 1.37 | 2.34 | 86.60 | 64.76 | 6.46 |
| 239.2 | 1.38 | 2.41 | 86.10 | 63.92 | 6.21 |
| 240.7 | 1.40 | 2.42 | 81.50 | 59.64 | 4.41 |
| 242.2 | 1.37 | 2.47 | 87.30 | 65.28 | 6.85 |
| 244.4 | 1.31 | 2.38 | 86.00 | 67.26 | 6.13 |
| 245.9 | 1.35 | 2.52 | 85.90 | 65.19 | 6.07 |
| 247.4 | 1.37 | 2.44 | 82.80 | 61.92 | 4.81 |
| 248.9 | 1.40 | 2.52 | 82.10 | 60.08 | 4.60 |
| 250.4 | 1.32 | 2.53 | 87.40 | 67.83 | 6.93 |

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 251.9 | 1.33 | 2.49 | 85.70 | 66.01 | 5.98 |
| 254.1 | 1.30 | 2.42 | 85.60 | 67.46 | 5.96 |
| 255.6 | 1.29 | 2.38 | 87.80 | 69.73 | 7.22 |
| 257.1 | 1.34 | 2.46 | 87.80 | 67.13 | 7.21 |
| 258.1 | 1.36 | 2.54 | 89.20 | 67.20 | 8.25 |
| 273.5 | 1.39 | 2.59 | 84.10 | 61.99 | 5.29 |
| 275.0 | 1.38 | 2.48 | 86.90 | 64.51 | 6.64 |
| 276.5 | 1.58 | 2.68 | 75.00 | 48.63 | 3.00 |
| 278.0 | 1.39 | 2.27 | 82.80 | 61.03 | 4.80 |
| 279.5 | 1.36 | 2.38 | 86.50 | 65.16 | 6.39 |
| 280.5 | 1.37 | 2.54 | 85.10 | 63.64 | 5.71 |
| 283.2 | 1.44 | 2.69 | 85.50 | 60.83 | 5.88 |
| 284.7 | 1.42 | 2.39 | 81.50 | 58.80 | 4.40 |
| 286.2 | 1.42 | 2.36 | 81.50 | 58.80 | 4.41 |
| 287.7 | 1.37 | 2.40 | 85.60 | 64.01 | 5.96 |
| 289.2 | 1.52 | 2.81 | 77.40 | 52.17 | 3.42 |
| 290.7 | 1.48 | 2.75 | 79.70 | 55.17 | 3.94 |
| 291.5 | 1.45 | 2.41 | 77.60 | 54.83 | 3.46 |
| 292.9 | 1.39 | 2.70 | 86.00 | 63.39 | 6.16 |
| 294.4 | 1.38 | 2.30 | 82.60 | 61.32 | 4.74 |
| 295.9 | 1.42 | 2.66 | 83.90 | 60.53 | 5.21 |
| 297.4 | 1.43 | 2.49 | 80.80 | 57.89 | 4.20 |
| 298.9 | 1.54 | 2.61 | 78.40 | 52.16 | 3.64 |
| 300.4 | 1.64 | 2.47 | 72.60 | 45.35 | 2.65 |
| 302.5 | 1.52 | 2.54 | 77.00 | 51.90 | 3.35 |
| 304.0 | 1.61 | 2.56 | 72.70 | 46.26 | 2.66 |
| 305.5 | 1.67 | 2.53 | 68.20 | 41.84 | 2.15 |
| 307.0 | 1.72 | 2.56 | 65.10 | 38.78 | 1.86 |
| 312.2 | 1.82 | 2.80 | 64.60 | 36.36 | 1.82 |
| 313.9 | 1.85 | 2.72 | 63.60 | 35.22 | 1.74 |
| 315.1 | 1.81 | 2.63 | 63.90 | 36.17 | 1.77 |
| 316.7 | 1.76 | 2.45 | 62.50 | 36.38 | 1.66 |
| 317.3 | 1.82 | 2.53 | 66.70 | 37.55 | 2.00 |
| 318.9 | 1.76 | 2.62 | 65.30 | 38.01 | 1.88 |
| 322.3 | 1.69 | 2.65 | 67.30 | 40.80 | 2.06 |
| 323.1 | 1.64 | 2.49 | 68.80 | 42.98 | 2.21 |
| 324.9 | 1.68 | 2.53 | 68.60 | 41.83 | 2.18 |
| 326.3 | 1.89 | 2.73 | 63.80 | 34.58 | 1.76 |
| 327.9 | 1.64 | 2.76 | 65.30 | 40.79 | 1.88 |
| 340.8 | 1.76 | 2.51 | 65.00 | 37.84 | 1.86 |
| 342.5 | 1.75 | 2.49 | 66.60 | 38.99 | 1.99 |
| 344.0 | 1.77 | 2.82 | 74.50 | 43.12 | 2.92 |
| 345.7 | 1.73 | 2.75 | 72.30 | 42.82 | 2.61 |

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 347.0 | 1.67 | 2.55 | 66.90 | 41.04 | 2.02 |
| 351.0 | 1.63 | 2.67 | 68.00 | 42.74 | 2.13 |
| 351.3 | 2.10 | 2.37 | 35.50 | 17.32 | 0.55 |
| 360.4 | 1.89 | 2.38 | 50.70 | 27.48 | 1.03 |
| 369.6 | 1.64 | 2.64 | 61.60 | 38.48 | 1.61 |
| 371.0 | 1.83 | 2.58 | 71.40 | 39.97 | 2.49 |
| 379.1 | 1.77 | 2.61 | 64.80 | 37.51 | 1.84 |
| 388.4 | 1.90 | 2.30 | 47.40 | 25.56 | 0.90 |
| 397.6 | 2.38 | 2.77 | 32.40 | 13.95 | 0.48 |
| 407.6 | 1.96 | 2.31 | 37.50 | 19.60 | 0.60 |
| 427.0 | 1.88 | 2.44 | 59.30 | 32.32 | 1.46 |
| 428.0 | 1.91 | 2.52 | 51.90 | 27.84 | 1.08 |
| 437.3 | 1.87 | 2.62 | 61.60 | 33.75 | 1.60 |
| 438.3 | 1.87 | 3.19 | 59.70 | 32.71 | 1.48 |
| 439.5 | 1.81 | 2.51 | 61.60 | 34.87 | 1.61 |
| 441.7 | 1.83 | 2.60 | 61.80 | 34.60 | 1.62 |
| 443.2 | 2.02 | 2.57 | 46.20 | 23.43 | 0.86 |
| 443.6 | 1.66 | 2.44 | 78.40 | 48.39 | 3.64 |
| 446.9 | 1.85 | 2.66 | 54.60 | 30.24 | 1.20 |
| 448.4 | 1.86 | 2.62 | 53.10 | 29.25 | 1.13 |
| 449.9 | 1.92 | 2.74 | 55.10 | 29.40 | 1.23 |
| 451.7 | 1.89 | 2.61 | 61.10 | 33.12 | 1.57 |
| 452.4 | 1.94 | 2.56 | 52.50 | 27.72 | 1.10 |
| 456.8 | 2.74 | 2.84 | 16.80 | 6.28 | 0.20 |
| 459.3 | 1.89 | 2.63 | 61.50 | 33.34 | 1.60 |
| 460.5 | 2.00 | 2.72 | 56.80 | 29.10 | 1.31 |
| 462.7 | 2.05 | 2.51 | 52.00 | 25.99 | 1.08 |
| 465.9 | 2.81 | 2.84 | 12.90 | 4.70 | 0.15 |
| 475.6 | 1.91 | 2.66 | 55.50 | 29.77 | 1.25 |
| 477.4 | 1.99 | 2.64 | 53.70 | 27.65 | 1.16 |
| 479.1 | 2.03 | 2.61 | 55.80 | 28.16 | 1.26 |
| 479.9 | 1.94 | 2.63 | 56.30 | 29.73 | 1.29 |
| 480.0 | 2.04 | 2.64 | 55.00 | 27.62 | 1.22 |
| 481.9 | 2.02 | 2.62 | 56.90 | 28.86 | 1.32 |
| 483.0 | 1.97 | 2.56 | 53.20 | 27.67 | 1.14 |
| 485.7 | 2.04 | 2.67 | 55.10 | 27.67 | 1.23 |
| 487.1 | 1.95 | 2.62 | 57.20 | 30.05 | 1.34 |
| 487.7 | 1.92 | 2.64 | 54.90 | 29.29 | 1.22 |
| 491.1 | 1.88 | 2.60 | 60.70 | 33.08 | 1.55 |
| 493.2 | 1.91 | 2.56 | 58.90 | 31.59 | 1.43 |
| 493.7 | 1.95 | 2.72 | 58.70 | 30.84 | 1.42 |
| 494.4 | 1.97 | 2.62 | 57.10 | 29.69 | 1.33 |
| 494.9 | 1.95 | 2.82 | 59.70 | 31.37 | 1.48 |

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 496.0 | 1.75 | 2.77 | 70.20 | 41.10 | 2.36 |
| 496.5 | 1.99 | 2.78 | 55.40 | 28.52 | 1.24 |
| 503.5 | 1.96 | 2.81 | 59.90 | 31.31 | 1.50 |
| 505.6 | 1.96 | 2.81 | 59.90 | 31.31 | 1.50 |
| 523.0 | 1.97 | 2.88 | 62.10 | 32.30 | 1.64 |
| 524.6 | 1.93 | 2.79 | 58.00 | 30.79 | 1.38 |
| 526.2 | 1.89 | 2.89 | 55.50 | 30.08 | 1.25 |
| 531.9 | 1.73 | 3.16 | 75.20 | 44.53 | 3.03 |
| 532.5 | 1.95 | 2.81 | 53.50 | 28.11 | 1.15 |
| 533.3 | 1.73 | 3.06 | 72.60 | 42.99 | 2.65 |
| 535.2 | 1.96 | 2.78 | 58.20 | 30.42 | 1.39 |
| 538.4 | 1.94 | 2.77 | 58.40 | 30.84 | 1.40 |
| 551.1 | 2.06 | 2.71 | 52.10 | 25.91 | 1.09 |
| 552.6 | 2.05 | 2.76 | 53.90 | 26.94 | 1.17 |
| 562.2 | 2.68 | 2.73 | 16.00 | 6.12 | 0.19 |
| 570.2 | 2.65 | 2.59 | 8.80 | 3.40 | 0.10 |
| 575.3 | 2.73 | 2.75 | 4.20 | 1.58 | 0.04 |
| 579.8 | 2.20 | 2.69 | 43.20 | 20.12 | 0.76 |
| 591.5 | 2.89 | 2.90 | 0.20 | 0.07 | 0.00 |
| 593.9 | 2.89 | 2.91 | 0.20 | 0.07 | 0.00 |
| 600.0 | 2.61 | 2.67 | 10.20 | 4.00 | 0.11 |
| 601.0 | 2.84 | 2.84 | 1.90 | 0.69 | 0.02 |
| 608.8 | 2.52 | 2.62 | 13.30 | 5.41 | 0.15 |
| 609.1 | 2.32 | 2.68 | 28.60 | 12.63 | 0.40 |
| 618.5 | 2.53 | 2.70 | 16.50 | 6.68 | 0.20 |
| 621.1 | 2.80 | 2.75 | 6.30 | 2.31 | 0.07 |
| 627.6 | 2.81 | 2.77 | 4.70 | 1.71 | 0.05 |
| 629.4 | 2.68 | 2.71 | 9.00 | 3.44 | 0.10 |
| 637.3 | 2.56 | 2.76 | 16.50 | 6.60 | 0.20 |
| 647.4 | 2.11 | 2.75 | 48.30 | 23.45 | 0.94 |
| 648.7 | 2.69 | 2.76 | 12.90 | 4.91 | 0.15 |
| 650.1 | 2.85 | 2.85 | 3.90 | 1.40 | 0.04 |
| 656.8 | 2.61 | 2.84 | 2.30 | 0.90 | 0.02 |
| 659.2 | 2.91 | 2.98 | 0.00 | 0.00 | 0.00 |
| 661.1 | 2.72 | 2.69 | 8.40 | 3.16 | 0.09 |
| 661.2 | 2.37 | 2.55 | 30.40 | 13.14 | 0.44 |
| 661.3 | 2.29 | 2.67 | 31.60 | 14.14 | 0.46 |
| 662.0 | 2.08 | 2.63 | 43.30 | 21.33 | 0.76 |
| 663.4 | 1.89 | 2.68 | 41.30 | 22.39 | 0.70 |
| 668.0 | 2.23 | 2.72 | 35.00 | 16.08 | 0.54 |
| 669.6 | 2.72 | 2.75 | 6.90 | 2.60 | 0.07 |
| 676.5 | 2.75 | 2.73 | 4.00 | 1.49 | 0.04 |
| 679.1 | 2.80 | 2.77 | 2.70 | 0.99 | 0.03 |

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 682.3 | 2.84 | 2.82 | 2.00 | 0.72 | 0.02 |
| 686.3 | 2.18 | 2.68 | 40.40 | 18.99 | 0.68 |
| 687.7 | 2.18 | 2.71 | 38.60 | 18.14 | 0.63 |
| 689.5 | 2.10 | 2.67 | 42.30 | 20.64 | 0.73 |
| 690.2 | 2.20 | 2.78 | 41.70 | 19.42 | 0.72 |
| 692.6 | 2.13 | 2.67 | 38.30 | 18.42 | 0.62 |
| 694.9 | 2.16 | 2.73 | 38.80 | 18.40 | 0.63 |
| 698.4 | 2.22 | 2.73 | 41.40 | 19.11 | 0.71 |
| 701.6 | 2.17 | 2.76 | 40.30 | 19.03 | 0.67 |
| 705.0 | 2.87 | 2.88 | 1.90 | 0.68 | 0.02 |
| 705.5 | 2.87 | 2.87 | 1.60 | 0.57 | 0.02 |
| 707.1 | 2.86 | 2.83 | 5.40 | 1.93 | 0.06 |
| 708.3 | 2.87 | 2.86 | 0.60 | 0.21 | 0.01 |
| 710.1 | 2.89 | 2.89 | 0.20 | 0.07 | 0.00 |
| 711.4 | 2.89 | 2.90 | 0.30 | 0.11 | 0.00 |
| 713.4 | 2.64 | 2.62 | 5.10 | 1.98 | 0.05 |
| 715.0 | 2.17 | 2.69 | 42.20 | 19.92 | 0.73 |
| 716.6 | 2.20 | 2.60 | 42.20 | 19.65 | 0.73 |
| 718.0 | 2.25 | 2.72 | 41.90 | 19.08 | 0.72 |
| 718.8 | 2.24 | 2.76 | 41.00 | 18.75 | 0.69 |
| 720.7 | 2.22 | 2.59 | 43.80 | 20.21 | 0.78 |
| 724.0 | 2.54 | 2.76 | 17.60 | 7.10 | 0.21 |
| 725.2 | 2.52 | 2.67 | 23.00 | 9.35 | 0.30 |
| 725.5 | 2.44 | 2.78 | 22.10 | 9.28 | 0.28 |
| 733.2 | 2.62 | 2.79 | 14.20 | 5.55 | 0.17 |
| 734.2 | 2.47 | 2.73 | 20.90 | 8.67 | 0.26 |
| 743.1 | 2.59 | 2.73 | 10.70 | 4.23 | 0.12 |
| 745.3 | 2.71 | 2.74 | 11.00 | 4.16 | 0.12 |
| 754.6 | 2.55 | 2.61 | 17.20 | 6.91 | 0.21 |
| 756.5 | 2.28 | 2.74 | 36.20 | 16.27 | 0.57 |
| 757.7 | 2.31 | 2.84 | 34.90 | 15.48 | 0.54 |
| 758.5 | 2.24 | 2.73 | 34.70 | 15.87 | 0.53 |
| 763.7 | 2.72 | 2.80 | 9.50 | 3.58 | 0.10 |
| 765.1 | 2.81 | 2.76 | 5.20 | 1.90 | 0.06 |
| 766.4 | 2.74 | 2.86 | 9.60 | 3.59 | 0.11 |
| 767.7 | 2.41 | 2.65 | 24.20 | 10.29 | 0.32 |
| 768.7 | 2.53 | 2.75 | 24.70 | 10.00 | 0.33 |
| 773.8 | 2.68 | 2.82 | 11.10 | 4.24 | 0.13 |
| 782.2 | 2.80 | 2.59 | 10.50 | 3.84 | 0.12 |
| 782.4 | 2.66 | 2.72 | 18.10 | 6.97 | 0.22 |
| 782.6 | 2.50 | 2.70 | 31.20 | 12.79 | 0.45 |
| 783.7 | 2.27 | 2.61 | 30.10 | 13.58 | 0.43 |
| 786.0 | 2.71 | 2.75 | 9.10 | 3.44 | 0.10 |

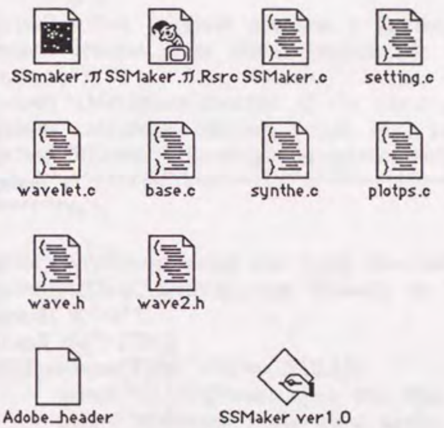
| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 791.3 | 2.70 | 2.80 | 8.80 | 3.34 | 0.10 |
| 792.6 | 2.22 | 2.71 | 30.80 | 14.21 | 0.45 |
| 795.2 | 2.27 | 2.77 | 34.10 | 15.39 | 0.52 |
| 796.7 | 2.34 | 2.74 | 34.00 | 14.89 | 0.51 |
| 798.3 | 2.25 | 2.74 | 34.90 | 15.89 | 0.54 |
| 802.3 | 2.31 | 2.75 | 34.30 | 15.21 | 0.52 |
| 803.3 | 2.34 | 2.76 | 36.60 | 16.02 | 0.58 |
| 805.0 | 2.15 | 2.75 | 34.60 | 16.49 | 0.53 |
| 807.6 | 2.45 | 2.76 | 33.90 | 14.18 | 0.51 |
| 815.4 | 2.31 | 2.74 | 33.10 | 14.68 | 0.49 |
| 816.0 | 2.33 | 2.58 | 32.70 | 14.38 | 0.49 |
| 818.3 | 2.35 | 2.64 | 30.90 | 13.47 | 0.45 |
| 820.9 | 2.33 | 2.64 | 31.40 | 13.81 | 0.46 |
| 852.6 | 2.77 | 2.77 | 6.60 | 2.44 | 0.07 |
| 855.3 | 2.54 | 2.74 | 21.50 | 8.67 | 0.27 |

# Appendix

## *B: Synthetic Seismogram Program*

**Appendix-B**

This program produce a synthetic seismogram from the density-velocity profile. This program run on the Apple Macintosh. Following files need to run.




```
#include <stdio.h>
#define pct "%"

char TDV[20];  /* Input data file name */
static char *ILLH[20];  /* Illustrator 88 file name (header) */
static char *ILL[20];  /* Illustrator 88 file name (body) */
static char *ILLOUT[20];  /* Illustrator 88 file name (all) */
int INT;   /* Sampling interval */
int DL;   /* Display length */
float AE;  /* Amplitude enhancement */
FILE *fopen(), *fin, *fin2, *fout, *fout2;
float tim[100], ai[100], rc[100], ss[100][49];
float yplotco, xplotco, maxai, minai, maxrc, minrc, maxtim, mintim,
timlen;
float maxref, minref;
int xai, yai, count, xrc, yrc, xref, yref, tt, disp;
int REF[549], ANS;
```

```
main()
{
int a, n;
float ti, den, vel;

/*** PARAMETERS
*****************************************************************/

printf("\t*************************************************************
******\n");
printf("\tThis program produce a Synthetic Seismogram.\n");
printf("\tPlease make sure a include file, which is a input wavelet
data.\n");
printf("\tMaximum number of the input data is 100.\n");
printf("\tMaximum display length is 2 sec.\n");
printf("\tEnter following parameters!!\n");
printf("\t*************************************************************
******\n");

printf("\n\tPlease enter the input file name, which include\n");
printf("\tTime, Density, and Velocity w/ Tab data.\n");
printf("\t>>>");
scanf("%s", TDV);
if((fin=fopen(TDV, "r")) == NULL){
      printf("\n\t\t\7Cannot open this file, %s.\n", TDV);
      printf("\t\tPlease make sure again, bye.\n");
      return (-1);}
n=0;
count=0;
while(1){
      if((fscanf(fin, "%f\t%f\t%f", &ti, &den, &vel)) == EOF) break;
            tim[n]=(ti*1000);
            ai[n]=(den*vel);
                  if(n==0){
                        maxai=ai[n];
                        minai=ai[n];
                        maxtim=tim[n];
                        mintim=tim[n];}
                  if(n>0){
                        if(ai[n] >= maxai) maxai=ai[n];
                        if(ai[n] <= minai) minai=ai[n];
                        if(tim[n] >= maxtim) maxtim=tim[n];
                        if(tim[n] <= mintim) mintim=tim[n];}
            n++;
            count++;
      }
```

```
timlen=maxtim-mintim;
fclose(fin);
printf("\n\t*** Data reading completed. ***\n");

printf("\n\tWhat sampling interval do you use, 1, 2, or 4
msec?\n");
printf("\t1 msec. >>> Hit 1\t(Display Length is up to 0.5 sec.)\n");
printf("\t2 msec. >>> Hit 2\t(Display Length is up to 1.0 sec.)\n");
printf("\t4 msec. >>> Hit 4\t(Display Length is up to 2.0 sec.)\n");
	while(1){
		printf("\t>>>");
		scanf("%d", &INT);
		if(INT==1 && timlen<=500.0) break;
		else if(INT==2 && timlen<=1000.0) break;
		else if(INT==4 && timlen<=2000.0) break;
		else printf("\7\n\tWrong key input or out of display
length.  Enter again!\n");
		}

printf("\n\tWhich display length do you use?\n");
printf("\tLong >>> Hit 1\n");
printf("\tShort >>> Hit 2\n");
	while(1){
		printf("\t>>>");
		scanf("%d", &DL);
		if(DL==1 || DL==2) break;
		else printf("\7\n\tWrong key input.  Enter again!\n");
		}

printf("\n\tEnter the amplitude enhancement factor. (ex. 1.0,
1.5)\n");
	while(1){
		printf("\t>>>");
		scanf("%f", &AE);
		if(AE==0.0){
			printf("\7\n\tInputted factor is ZERO.  Cannot
display!\n");
			printf("\tCanged it to '1'\n");
			AE=1.0;
			break;}
		break;}
while(1){
	printf("\n\tDo you like wiggle plus area display?\n");
	printf("\t\tYes >>> Hit 0(zero)\n");
	printf("\t\tNo >>> Hit 1\n");
	printf("\t>>>");
```

```
        scanf("%d", &disp);
        if(disp<0 && disp>1) continue;
        else if(disp==0 || disp==1) break;
        }

/*** Illustrator 88 File ***/
*ILL="Illust_body";
fout=fopen(*ILL, "w");
*ILLH="Adobe_header";


printf("\n\n\t****************************************************
***************\n");
printf("\tDid you make a include file <wave.h>, which is a input
wavelet  data?\n");
printf("\tNow you are ready to go.  *** Crick the mouse and start!
***\n");
printf("\t****************************************************
**********\n\n\7\7");

while( !Button() );

/*** MAIN
*****************************************************************
*/
setting();
wavelet();
base();
plotps();
synthe();

while( !Button() );

fprintf(fout,"S\n");
fprintf(fout,"%s%sTrailer\n",pct,pct);
fprintf(fout,"Adobe_Illustrator881  /terminate  get  exec\n");
fprintf(fout,"Adobe_customcolor  /terminate  get  exec\n");
fprintf(fout,"Adobe_cshow  /terminate  get  exec\n");
fprintf(fout,"Adobe_cmykcolor  /terminate  get  exec\n");
fclose(fout);

/*** Illustrator 88 File ***/

printf("\n\tDo  you  make  a  Illustrator  88  file?\n");
printf("\tYES >>> Hit 0(zero)\n");
printf("\tNO  >>> Hit 1\n");
```

```
	while(1){
		printf("\t>>>");
		scanf("%d", &ANS);
		if(ANS==0 || ANS==1) break;
		else printf("\7\7\n\tWrong key input.  Enter 
again!\n");
		}

if (ANS==0){
		char buff[81];
		printf("\n\tPlease enter the Illustrator 88 file 
name.\n");
		printf("\t>>> ");
		scanf("%s", *ILLOUT);
		fout2=fopen(*ILLOUT, "w");
		fin2=fopen(*ILLH, "r");

		while(1){
		if((fgets(buff, 80, fin2)) == NULL) break;
		fputs(buff,fout2);}

		fclose(fin2);
		fout=fopen(*ILL, "r");

		while(1){
		if((fgets(buff, 80, fout)) == NULL) break;
		fputs(buff, fout2);}
		fclose(fout);
		fclose(fout2);
		}

fclose(fout);
remove("Illust_body");

printf("\7\7\7\n\tEND\tEND\tEND\t>>>  Bye!\n");

}

#define REMOVE_ALL_EVENTS  0

WindowPtr	SSMakerWindow;
WindowPtr	InformationWindow;
WindowPtr	WaveletWindow;

setting()
```

```
{
     ToolBoxInit();
     WindowInit();
}

ToolBoxInit()
{
     InitGraf(&thePort);
     InitFonts();
     FlushEvents(everyEvent, REMOVE_ALL_EVENTS);
     /*InitWindows();*/
     TEInit();
     InitDialogs(0L);
     InitCursor();
     /*InitMenus();*/
}

WindowInit()
{
     SSMakerWindow=GetNewWindow(400, 0L, -1L);
     ShowWindow(SSMakerWindow);
     InformationWindow=GetNewWindow(500, 0L, -1L);
     ShowWindow(InformationWindow);
     WaveletWindow=GetNewWindow(600, 0L, -1L);
     ShowWindow(WaveletWindow);

}

extern WindowPtr      WaveletWindow;
extern int INT;

wavelet()
{
#include "wave.h"  /* Put the "wave.h" file into the current
directory. */
int xx, yy, n;

SetPort(WaveletWindow);
MoveTo(10, 5);
PenSize(3, 3);
LineTo(10, 60);
MoveTo(5, 33);
LineTo(154,33);

TextFont( monaco );
TextSize( 9 );
```

```
MoveTo(8, 73);
DrawString("\p0");

PenSize(2, 2);
MoveTo(40, 60);
LineTo(40, 62);
MoveTo(35, 73);
DrawString("\p10");

MoveTo(70, 60);
LineTo(70, 62);
MoveTo(65, 73);
DrawString("\p20");

MoveTo(100, 60);
LineTo(100, 62);
MoveTo(95, 73);
DrawString("\p30");

MoveTo(130, 60);
LineTo(130, 62);
MoveTo(125, 73);
DrawString("\p40");

MoveTo(120, 10);
DrawString("\p(msec.)");

MoveTo(10, 33);

xx=10;

if(INT==1){
    for(n=0; n<49; n++){
        yy=33 - wave[n]*27;
        LineTo(xx, yy);
        xx+=3;}
        }

else if(INT==2){
    for(n=0; n<49; n=n+2){
        yy=33 - wave[n]*27;
        LineTo(xx, yy);
        xx+=6;}
        }

else if(INT==4){
```

```
     for(n=0; n<49; n=n+4){
          yy=33 - wave[n]*27;
          LineTo(xx, yy);
          xx+=12;}
          }
}

extern WindowPtr     SSMakerWindow;
extern WindowPtr     InformationWindow;
extern float maxai, minai, maxrc, minrc, yplotco, xplotco, timlen,
mintim;
extern float ai[], tim[], rc[];
extern int xai, yai, xrc, yrc;
extern int DL, count;
base()
{
int n, yai2;

/*** INFORMATIONS
**********************************************************/

SetPort(InformationWindow);
TextFont( helvetica );
TextSize( 12 );
TextFace( bold );
MoveTo(10, 15);
DrawString("\pSynthetic seismic trace would be");
MoveTo(10, 30);
DrawString("\pproduced by convolving a minimum-phase
wavelet.");
TextSize( 9 );
MoveTo(30, 45);
DrawString("\pSS: Synthetic Seismogram");
MoveTo(30, 57);
DrawString("\pRC: Reflection Coefficient");
MoveTo(30, 69);
DrawString("\pAI: Acoustic Impedance");

/*******************************************************************
******/


/*** SYNTHETIC SEISMOGRAM FRAME
*******************************************/
```

```
SetPort(SSMusic Window);
TextFont( Geneva );
TextFace( bold + italic );
TextSize( 24 );
PenSize(3, 3);
MoveTo(50, 10);
LineTo(50, 180);
LineTo(450, 180);
PenSize(2, 2);
MoveTo(35, 45);
LineTo(50, 45);
PenSize(1, 1);
LineTo(460, 45);
PenSize(2, 2);
MoveTo(55, 105);
LineTo(450, 105);
MoveTo(55, 135);
LineTo(450, 135);

MoveTo(60, 180);
LineTo(60, 185);
MoveTo(100, 170);
LineTo(100, 185);
MoveTo(140, 180);
LineTo(140, 185);
MoveTo(180, 160);
LineTo(180, 185);
MoveTo(220, 180);
LineTo(220, 185);
PenSize(3, 3);
MoveTo(160, 150);
LineTo(260, 150);
PenSize(2, 2);
MoveTo(200, 130);
LineTo(200, 185);
MoveTo(340, 150);
LineTo(340, 185);
MoveTo(380, 180);
LineTo(380, 185);
MoveTo(420, 180);
LineTo(420, 185);
MoveTo(160, 180);
LineTo(460, 180);


MoveTo(5, 155);
```

```
SetPort(SSMakerWindow);
TextFont( helvetica );
TextFace( bold + shadow );
TextSize( 24 );
PenSize(3, 3);
MoveTo(60, 10);
LineTo(60, 180);
LineTo(460, 180);
PenSize(2, 2);
MoveTo(55, 45);
LineTo(60, 45);
PenSize(1, 1);
LineTo(460, 45);
PenSize(2, 2);
MoveTo(55, 105);
LineTo(460, 105);
MoveTo(55, 155);
LineTo(60, 155);

MoveTo(60, 180);
LineTo(60, 185);
MoveTo(100, 180);
LineTo(100, 185);
MoveTo(140, 180);
LineTo(140, 185);
MoveTo(180, 180);
LineTo(180, 185);
MoveTo(220, 180);
LineTo(220, 185);
PenSize(3, 3);
MoveTo(260, 180);
LineTo(260, 188);
PenSize(2, 2);
MoveTo(300, 180);
LineTo(300, 185);
MoveTo(340, 180);
LineTo(340, 185);
MoveTo(380, 180);
LineTo(380, 185);
MoveTo(420, 180);
LineTo(420, 185);
MoveTo(460, 180);
LineTo(460, 185);


MoveTo(15, 55);
```

```
DrawString("\pSS");
MoveTo(15, 115);
DrawString("\pRC");
MoveTo(15, 165);
DrawString("\pAI");

/*****************************************************************
******/

/*** ACOUSTIC IMPEDANCE
**************************************************/

PenSize(1, 1);
n=0;
yplotco = (40.0/(maxai - minai));
xplotco = (400.0/timlen);
while(1){
	yai=(175 - (ai[n] - minai) * yplotco);
	xai=((tim[n]-mintim)*xplotco/DL+60);
	if(n==0) MoveTo(xai, yai);
	if(n!=0){
		LineTo(xai, yai2);
		LineTo(xai, yai);
		if(DL==1 && xai>=460) break;
		if(DL==2 && xai>=260) break;}
	n++;
	yai2=yai;
	}
/*****************************************************************
******/

/*** REFLECTION COEFFICIENT
**********************************************/
PenSize(2, 2);
n=0;
rc[0]=((ai[n] - 1536.0)/(ai[n] + 1536.0));    /* 1536.0=SEAWATER
IMPEDANCE */
maxrc=rc[0];
minrc=rc[0];
while(1){
	rc[n+1]=((ai[n+1] - ai[n]) / (ai[n] + ai[n+1]));
	if(rc[n+1] > maxrc) maxrc=rc[n+1];
	if(rc[n+1] < minrc) minrc=rc[n+1];
	n++;
	if(n==count) break;}
```

```
if(maxrc > 0.0) yplotco=(20.0/maxrc);
if(maxrc < 0.0) yplotco=(-20.0/minrc);

n=0;
MoveTo(60, 105);
while(1){
	yrc=(105.0 - (rc[n] * yplotco));
	xrc=((tim[n]-mintim)*xplotco/DL+60);
	if(n==0) LineTo(xrc, yrc);
	if(n!=0){
		MoveTo(xrc, 105);
		LineTo(xrc, yrc);
		if(DL==1 && xrc>=460) break;
		else if(DL==2 && xrc>=260) break;}
	n++;
	}
/*****************************************************************
******/

}


#define pct "%"

plotps()
{
extern *fout;

   fprintf(fout,"0 A\n");
    fprintf(fout,"u\n");
   fprintf(fout,"0 O\n");
   fprintf(fout,"0 g\n");
  fprintf(fout,"0 i 0 J 0 j 1 w 4 M []0 d\n");
   fprintf(fout,"%s%sNote:\n",pct,pct);
   fprintf(fout,"60 10 m\n");
   fprintf(fout,"60 80 l\n");
    fprintf(fout,"F\n");
   fprintf(fout,"U\n");
    fprintf(fout,"u\n");
   fprintf(fout,"60 45 m\n");
   fprintf(fout,"460 45 l\n");
   fprintf(fout,"F\n");
   fprintf(fout,"U\n");
   fprintf(fout,"0 R\n");
   fprintf(fout,"0 G\n");
   fprintf(fout,"60 45 m\n");
```

```
}

#include  "wave.h"

extern  WindowPtr      SSMakerWindow;
extern  float rc[], ss[100][49], tim[], REF[], mintim, xplotco, yplotco;
extern  float maxref, minref, timlen, AE;
extern  int count, INT, DL, xref, yref, tt, disp;
extern  WindowPtr      InformationWindow;
extern  int ANS;

synthe()
{
int n, m;
extern  *fout;

SetPort(SSMakerWindow);
        for(n=0; n<count; n++){
                for(m=0; m<49; m++){
                        ss[n][m]=rc[n]*wave[m];}}

n=0;
m=0;
for(n=0; n<549; n++) REF[n]=0.0;    /* INITIALIZE */
maxref=0.0;
minref=0.0;

if(INT==1){for(n=0; n<count; n++){
                for(m=0; m<49; m++){
                        tt=((tim[n]-mintim)+m);
                        REF[tt]=ss[n][m]+REF[tt];
                        if(REF[tt] >= maxref) maxref=REF[tt];
                        if(REF[tt] <= minref) minref=REF[tt];
                        }}}

if(INT==2){for(n=0; n<count; n++){
                for(m=0; m<49; m++){
                        tt=((tim[n]-mintim)+m)/2;
                        REF[tt]=(ss[n][m]+REF[tt])/2;
                        if(REF[tt] >= maxref) maxref=REF[tt];
                        if(REF[tt] <= minref) minref=REF[tt];
                        }}}

if(INT==4){for(n=0; n<count; n++){
                for(m=0; m<49; m++){
```

```
                    tt=((tim[n]-mintim)+m)/4;
                    REF[tt]=ss[n][m]+REF[tt];
                    if(REF[tt] >= maxref) maxref=REF[tt];
                    if(REF[tt] <= minref) minref=REF[tt];
                    }}}

if(maxref >= minref*(-1)) yplotco=(35.0/maxref);
else  yplotco=(35.0/minref*(-1.0));


PenSize(1, 1);
MoveTo(60, 45);

if(INT==1){
        for(n=0; n<timlen; n++){
                xref=(xplotco*n/DL+60);
                yref=(45-REF[n]*yplotco*AE);
                LineTo(xref, yref);
                /* Wiggle Display */
                if(disp==0 && yref<=45){
                                                LineTo(xref, 45);
                                                MoveTo(xref, yref);}
                fprintf(fout,"%d %d l\n", xref, 90-yref);
                }}
else if(INT==2){
        for(n=0; n<(timlen/2); n++){
                xref=((xplotco*n*2)/DL+60);
                yref=(45-REF[n]*yplotco*AE);
                PenSize(1, 1);
                LineTo(xref, yref);
                /* Wiggle Display */
                if(disp==0 && yref<=45){
                                                PenSize(2, 1);
                                                LineTo(xref, 45);
                                                MoveTo(xref, yref);}
                fprintf(fout,"%d %d l\n", xref, 90-yref);
                }}
else if(INT==4){
        for(n=0; n<(timlen/4); n++){
                xref=((xplotco*n*4)/DL+60);
                yref=(45-REF[n]*yplotco*AE);
                PenSize(1, 1);
                LineTo(xref, yref);
                /* Wiggle Display */
                if(disp==0 && yref<=45){
                                                PenSize(4, 1);
```

```
                    LineTo(xref, 45);
                    MoveTo(xref, yref);}
        fprintf(fout,"%d %d I\n", xref, 90-yref);
        }}
/**********************************************************************
*******/
SetPort(InformationWindow);
TextFont( helvetica );
TextSize( 9 );
TextFace( bold );
MoveTo(180, 69);
DrawString("\p-- Crick the Mouse to EXIT. --");

}
```

# Appendix

*C: Raw Data of Temperature Estimation*

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | T/# | t. Dat. | Mlng. | Dng. M | WB | A/CT | B | B-A/A | A/CT-E | WB-B | LAT | LONG | A/CT DE | Thermal | Heat Flo | 50 deg. | 100.00 | 150.00 | 200.00 | 50TWT | 100TWT | 150TWT | 200TWT |
| 2 | J101 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 02:00 | 45 | 38.6 | 139 | 30.5 | 1.65 | 2.01 | 2.40 | 0.36 | 0.39 | 0.75 | 45.64 | 139.51 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 4 | 02:15 | 45 | 41.1 | 139 | 29.0 | 1.92 | 2.32 | 2.80 | 0.40 | 0.48 | 0.88 | 45.69 | 139.48 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 5 | J102 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 17:45 | 43 | 29.6 | 139 | 17.5 | 4.00 | 4.45 | 5.28 | 0.45 | 0.83 | 1.28 | 43.49 | 139.29 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 7 | 18:00 | 43 | 31.8 | 139 | 15.7 | 3.73 | 4.20 | 5.04 | 0.47 | 0.84 | 1.31 | 43.53 | 139.26 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 8 | 18:30 | 43 | 36.3 | 139 | 12.3 | 3.99 | 4.46 | 5.45 | 0.47 | 0.99 | 1.46 | 43.61 | 139.21 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 9 | 18:45 | 43 | 41.5 | 139 | 12.4 | 3.60 | 4.19 | 5.15 | 0.59 | 0.96 | 1.55 | 43.69 | 139.21 | 473.34 | 84.51 | 71.83 | 661.339 | 2464.34 | 7502.33 | 21573.3 | 0.82 | 3.06 | 9.30 | 26.73 |
| 10 | 19:00 | 43 | 43.9 | 139 | 10.7 | 3.20 | 3.67 | 4.30 | 0.47 | 0.63 | 1.10 | 43.73 | 139.18 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 11 | 20:00 | 43 | 53.4 | 139 | 4.1 | 4.03 | 4.59 | 5.10 | 0.56 | 0.51 | 1.07 | 43.89 | 139.07 | 449.13 | 89.06 | 75.70 | 621.130 | 2215.12 | 6439.12 | 17634.1 | 0.77 | 2.75 | 7.98 | 21.85 |
| 12 | 20:30 | 43 | 58.2 | 139 | 0.8 | 4.39 | 4.80 | 4.90 | 0.41 | 0.10 | 0.51 | 43.97 | 139.01 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 13 | 21:00 | 44 | 3.0 | 138 | 57.6 | 4.66 | 5.12 | 5.60 | 0.46 | 0.48 | 0.94 | 44.05 | 138.96 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 14 | 21:30 | 44 | 7.9 | 138 | 54.5 | 4.66 | 5.15 | 5.80 | 0.49 | 0.65 | 1.14 | 44.13 | 138.91 | 392.64 | 101.88 | 86.59 | 530.640 | 1707.64 | 4466.64 | 10934.6 | 0.66 | 2.12 | 5.54 | 13.55 |
| 15 | 22:00 | 44 | 13.3 | 138 | 51.4 | 4.59 | 5.10 | 6.23 | 0.51 | 1.13 | 1.64 | 44.22 | 138.86 | 408.78 | 97.85 | 83.17 | 555.780 | 1841.78 | 4965.77 | 12549.7 | 0.69 | 2.29 | 6.16 | 15.55 |
| 16 | 22:30 | 44 | 18.2 | 138 | 48.3 | 4.43 | 4.90 | 5.50 | 0.47 | 0.60 | 1.07 | 44.30 | 138.81 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 17 | 23:00 | 44 | 23.2 | 138 | 45.2 | 3.72 | 4.15 | 4.90 | 0.43 | 0.75 | 1.18 | 44.39 | 138.75 | 344.22 | 116.21 | 98.78 | 456.220 | 1345.21 | 3221.21 | 7181.22 | 0.57 | 1.67 | 3.99 | 8.90 |
| 18 | 23:30 | 44 | 28.1 | 138 | 41.9 | 3.02 | 3.30 | 3.70 | 0.28 | 0.40 | 0.68 | 44.47 | 138.70 | 223.16 | 179.25 | 152.36 | 281.160 | 671.160 | 1303.16 | 2330.15 | 0.35 | 0.84 | 1.62 | 2.89 |
| 19 | 00:00 | 44 | 33.0 | 138 | 38.5 | 2.03 | 2.30 | 2.30 | 0.27 | 0.00 | 0.27 | 44.55 | 138.64 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 20 | 00:30 | 44 | 38.0 | 138 | 35.3 | 2.10 | 2.48 | 2.65 | 0.38 | 0.17 | 0.55 | 44.63 | 138.59 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 21 | 01:00 | 44 | 42.9 | 138 | 32.5 | 2.78 | 3.22 | 3.73 | 0.44 | 0.51 | 0.95 | 44.72 | 138.54 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 22 | 01:30 | 44 | 47.8 | 138 | 29.7 | 2.84 | 3.13 | 3.30 | 0.29 | 0.17 | 0.46 | 44.80 | 138.50 | 231.23 | 172.99 | 147.04 | 293.229 | 707.229 | 1393.22 | 2524.22 | 0.37 | 0.88 | 1.73 | 3.13 |
| 23 | J5 | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 17:00 | 44 | 44.9 | 139 | 31.7 | 0.70 | 1.09 | 2.36 | 0.39 | 1.27 | 1.66 | 44.75 | 139.53 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 25 | 18:00 | 44 | 45.3 | 139 | 17.5 | 2.06 | 2.44 | 2.70 | 0.38 | 0.26 | 0.64 | 44.76 | 139.29 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 26 | 18:30 | 44 | 45.4 | 139 | 10.4 | 2.08 | 2.50 | 2.94 | 0.42 | 0.44 | 0.86 | 44.76 | 139.17 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 27 | 19:00 | 44 | 45.4 | 139 | 3.0 | 2.02 | 2.43 | 3.15 | 0.41 | 0.72 | 1.13 | 44.76 | 139.05 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 28 | 19:30 | 44 | 45.5 | 138 | 55.7 | 2.02 | 2.43 | 2.72 | 0.41 | 0.29 | 0.70 | 44.76 | 138.93 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 29 | 20:00 | 44 | 45.3 | 138 | 48.5 | 2.04 | 2.42 | 2.60 | 0.38 | 0.18 | 0.56 | 44.76 | 138.81 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 30 | 20:30 | 44 | 44.9 | 138 | 41.9 | 2.17 | 2.62 | 3.15 | 0.45 | 0.53 | 0.98 | 44.75 | 138.70 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 31 | 21:00 | 44 | 44.8 | 138 | 35.2 | 2.60 | 3.01 | 3.55 | 0.41 | 0.54 | 0.95 | 44.75 | 138.59 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 32 | 21:30 | 44 | 45.4 | 138 | 28.4 | 2.86 | 3.26 | 3.56 | 0.40 | 0.30 | 0.70 | 44.76 | 138.47 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 33 | J7 | | | | | | | | | | | | | | | | | | | | | | |
| 34 | 22:50 | 44 | 14.9 | 139 | 18.5 | 1.75 | 2.25 | 2.50 | 0.50 | 0.25 | 0.75 | 44.25 | 139.31 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 35 | 00:00 | 44 | 15.0 | 139 | 2.1 | 4.72 | 5.46 | 6.32 | 0.74 | 0.86 | 1.60 | 44.25 | 139.04 | 594.40 | 67.29 | 57.20 | 872.400 | 4075.39 | 15712.4 | 57984.3 | 1.08 | 5.05 | 19.47 | 71.85 |
| 36 | 00:30 | 44 | 15.1 | 138 | 55.0 | 4.66 | 5.19 | 6.11 | 0.53 | 0.92 | 1.45 | 44.25 | 138.92 | 424.92 | 94.14 | 80.02 | 581.920 | 1984.92 | 5512.91 | 14383.9 | 0.72 | 2.46 | 6.83 | 17.83 |
| 37 | 01:00 | 44 | 15.1 | 138 | 47.9 | 4.46 | 4.96 | 5.70 | 0.50 | 0.74 | 1.24 | 44.25 | 138.80 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 38 | 01:30 | 44 | 14.9 | 138 | 40.4 | 4.24 | 4.71 | 5.35 | 0.47 | 0.64 | 1.11 | 44.25 | 138.67 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 39 | J8 | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 18:30 | 44 | 0.2 | 138 | 24.9 | 4.23 | 4.65 | 5.06 | 0.42 | 0.41 | 0.83 | 44.00 | 138.42 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 41 | 19:00 | 44 | 0.2 | 138 | 31.7 | 4.28 | 4.70 | 5.53 | 0.42 | 0.83 | 1.25 | 44.00 | 138.53 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 42 | 19:30 | 44 | 0.2 | 138 | 39.2 | 4.40 | 4.83 | 5.45 | 0.43 | 0.62 | 1.05 | 44.00 | 138.65 | 344.21 | 116.21 | 98.78 | 456.209 | 1345.20 | 3221.20 | 7181.20 | 0.57 | 1.67 | 3.99 | 8.90 |
| 43 | 21:00 | 44 | 0.3 | 139 | 0.2 | 4.52 | 4.99 | 5.53 | 0.47 | 0.54 | 1.01 | 44.01 | 139.00 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 44 | J9 | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 00:00 | 43 | 45.0 | 138 | 59.8 | 4.43 | 4.89 | 5.25 | 0.46 | 0.36 | 0.82 | 43.75 | 139.00 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 46 | 00:30 | 43 | 45.2 | 138 | 53.0 | 4.64 | 5.10 | 5.92 | 0.46 | 0.82 | 1.28 | 43.75 | 138.88 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 47 | 01:00 | 43 | 44.9 | 138 | 45.9 | 4.70 | 5.09 | 5.94 | 0.39 | 0.85 | 1.24 | 43.75 | 138.77 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 48 | 01:30 | 43 | 45.0 | 138 | 39.0 | 4.71 | 5.11 | 5.70 | 0.40 | 0.59 | 0.99 | 43.75 | 138.65 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 49 | 02:00 | 43 | 45.0 | 138 | 32.0 | 4.72 | 5.13 | 5.77 | 0.41 | 0.64 | 1.05 | 43.75 | 138.53 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 50 | 02:30 | 43 | 45.0 | 138 | 25.1 | 4.74 | 5.16 | 5.83 | 0.42 | 0.67 | 1.09 | 43.75 | 138.42 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 51 | 03:00 | 43 | 45.1 | 138 | 18.0 | 4.72 | 5.13 | 5.90 | 0.41 | 0.77 | 1.18 | 43.75 | 138.30 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 52 | 03:30 | 43 | 44.9 | 138 | 10.8 | 4.74 | 5.13 | 5.90 | 0.39 | 0.77 | 1.16 | 43.75 | 138.18 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 53 | 04:00 | 43 | 44.9 | 138 | 3.5 | 4.83 | 5.23 | 5.95 | 0.40 | 0.72 | 1.12 | 43.75 | 138.06 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 54 | 05:00 | 43 | 44.9 | 137 | 49.0 | 4.88 | 5.35 | 5.75 | 0.47 | 0.40 | 0.87 | 43.75 | 137.82 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 55 | 05:30 | 43 | 44.8 | 137 | 41.6 | 4.84 | 5.23 | 5.50 | 0.39 | 0.27 | 0.66 | 43.75 | 137.69 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 56 | J10 | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | 15:00 | 43 | 30.1 | 138 | 55.3 | 4.62 | 5.04 | 5.53 | 0.42 | 0.49 | 0.91 | 43.50 | 138.92 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 58 | 15:30 | 43 | 30.1 | 138 | 48.2 | 4.64 | 5.11 | 5.41 | 0.47 | 0.30 | 0.77 | 43.50 | 138.80 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 59 | 16:00 | 43 | 30.3 | 138 | 41.2 | 4.62 | 5.05 | 5.40 | 0.43 | 0.35 | 0.78 | 43.51 | 138.69 | 344.21 | 116.21 | 98.78 | 456.209 | 1345.20 | 3221.20 | 7181.20 | 0.57 | 1.67 | 3.99 | 8.90 |
| 60 | 16:30 | 43 | 30.1 | 138 | 34.1 | 4.60 | 5.01 | 5.60 | 0.41 | 0.59 | 1.00 | 43.50 | 138.57 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 61 | 18:00 | 43 | 29.6 | 138 | 12.0 | 4.73 | 5.10 | 5.22 | 0.37 | 0.12 | 0.49 | 43.49 | 138.20 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 62 | 18:30 | 43 | 29.4 | 138 | 4.7 | 4.89 | 5.34 | 5.90 | 0.45 | 0.56 | 1.01 | 43.49 | 138.08 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 63 | 19:00 | 43 | 29.3 | 137 | 57.3 | 4.89 | 5.34 | 6.10 | 0.45 | 0.76 | 1.21 | 43.49 | 137.96 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 64 | 19:30 | 43 | 29.5 | 137 | 49.9 | 4.94 | 5.47 | 6.16 | 0.53 | 0.69 | 1.22 | 43.49 | 137.83 | 424.92 | 94.14 | 80.02 | 581.920 | 1984.92 | 5512.91 | 14383.9 | 0.72 | 2.46 | 6.83 | 17.83 |
| 65 | 20:00 | 43 | 29.5 | 137 | 42.6 | 4.95 | 5.40 | 5.85 | 0.45 | 0.45 | 0.90 | 43.49 | 137.71 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 66 | 20:30 | 43 | 29.7 | 137 | 35.1 | 4.92 | 5.48 | 6.45 | 0.56 | 0.97 | 1.53 | 43.50 | 137.59 | 449.13 | 89.06 | 75.70 | 621.130 | 2215.12 | 6439.12 | 17634.1 | 0.77 | 2.75 | 7.98 | 21.85 |
| 67 | 21:00 | 43 | 29.8 | 137 | 27.4 | 4.91 | 5.48 | 6.50 | 0.57 | 1.02 | 1.59 | 43.50 | 137.46 | 457.20 | 87.49 | 74.37 | 634.200 | 2295.19 | 6775.20 | 18859.1 | 0.79 | 2.85 | 8.40 | 23.37 |
| 68 | 21:30 | 43 | 29.9 | 137 | 19.9 | 4.90 | 5.51 | 6.58 | 0.61 | 1.07 | 1.68 | 43.50 | 137.33 | 489.48 | 81.72 | 69.46 | 687.479 | 2642.47 | 8298.48 | 24658.4 | 0.86 | 3.28 | 10.29 | 30.56 |
| 69 | J11 | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | 05:30 | 43 | 14.1 | 137 | 36.4 | 4.94 | 5.44 | 6.40 | 0.50 | 0.96 | 1.46 | 43.24 | 137.61 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 71 | 06:00 | 43 | 14.2 | 137 | 44.1 | 4.93 | 5.41 | 6.40 | 0.48 | 0.99 | 1.47 | 43.24 | 137.74 | 384.57 | 104.01 | 88.41 | 517.570 | 1642.57 | 4233.56 | 10202.5 | 0.64 | 2.04 | 5.25 | 12.65 |
| 72 | 06:30 | 43 | 14.8 | 137 | 51.1 | 4.94 | 5.50 | 6.35 | 0.56 | 0.85 | 1.41 | 43.25 | 137.85 | 449.13 | 89.06 | 75.70 | 621.130 | 2215.12 | 6439.12 | 17634.1 | 0.77 | 2.75 | 7.98 | 21.85 |
| 73 | 09:00 | 43 | 14.6 | 138 | 26.8 | 4.67 | 5.14 | 5.34 | 0.47 | 0.20 | 0.67 | 43.24 | 138.45 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 74 | 09:30 | 43 | 14.7 | 138 | 34.1 | 4.66 | 5.11 | 5.50 | 0.45 | 0.39 | 0.84 | 43.25 | 138.57 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 75 | 11:00 | 43 | 15.0 | 138 | 54.3 | 4.57 | 5.04 | 5.29 | 0.47 | 0.25 | 0.72 | 43.25 | 138.91 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 76 | 11:30 | 43 | 15.0 | 139 | 0.8 | 4.58 | 5.04 | 5.25 | 0.46 | 0.21 | 0.67 | 43.25 | 139.01 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 77 | 12:00 | 43 | 15.0 | 139 | 7.3 | 4.54 | 5.06 | 5.43 | 0.52 | 0.37 | 0.89 | 43.25 | 139.12 | 416.85 | 95.96 | 81.56 | 568.849 | 1912.84 | 5233.85 | 13439.8 | 0.71 | 2.37 | 6.49 | 16.66 |
| 78 | J12 | | | | | | | | | | | | | | | | | | | | | | | |
| 79 | 21:00 | 42 | 59.7 | 139 | 3.4 | 4.80 | 5.12 | 6.00 | 0.32 | 0.88 | 1.20 | 43.00 | 139.06 | 255.44 | 156.59 | 133.10 | 326.440 | 823.440 | 1688.43 | 3193.43 | 0.41 | 1.02 | 2.10 | 3.96 |
| 80 | 21:30 | 42 | 59.6 | 138 | 56.2 | 4.76 | 5.13 | 5.94 | 0.37 | 0.81 | 1.18 | 42.99 | 138.94 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 81 | 22:00 | 42 | 59.4 | 138 | 49.2 | 4.79 | 5.15 | 6.02 | 0.36 | 0.87 | 1.23 | 42.99 | 138.82 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 82 | 23:00 | 43 | 0.1 | 138 | 35.0 | 4.82 | 5.24 | 5.58 | 0.42 | 0.34 | 0.76 | 43.00 | 138.58 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 83 | 00:00 | 43 | 1.0 | 138 | 20.5 | 4.84 | 5.31 | 6.10 | 0.47 | 0.79 | 1.26 | 43.02 | 138.34 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 84 | 00:30 | 43 | 0.7 | 138 | 13.5 | 4.84 | 5.30 | 6.12 | 0.46 | 0.82 | 1.28 | 43.01 | 138.23 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 85 | 01:00 | 42 | 59.9 | 138 | 6.9 | 4.88 | 5.36 | 6.07 | 0.48 | 0.71 | 1.19 | 43.00 | 138.12 | 384.57 | 104.01 | 88.41 | 517.570 | 1642.57 | 4233.56 | 10202.5 | 0.64 | 2.04 | 5.25 | 12.65 |
| 86 | 01:30 | 42 | 59.4 | 138 | 0.2 | 4.92 | 5.35 | 6.25 | 0.43 | 0.90 | 1.33 | 42.99 | 138.00 | 344.21 | 116.21 | 98.78 | 456.209 | 1345.20 | 3221.20 | 7181.20 | 0.57 | 1.67 | 3.99 | 8.90 |
| 87 | 02:00 | 42 | 59.4 | 137 | 53.0 | 4.94 | 5.47 | 6.47 | 0.53 | 1.00 | 1.53 | 42.99 | 137.88 | 424.92 | 94.14 | 80.02 | 581.920 | 1984.92 | 5512.91 | 14383.9 | 0.72 | 2.46 | 6.83 | 17.83 |
| 88 | 02:30 | 42 | 59.5 | 137 | 46.4 | 4.93 | 5.46 | 6.45 | 0.53 | 0.99 | 1.52 | 42.99 | 137.77 | 424.92 | 94.14 | 80.02 | 581.920 | 1984.92 | 5512.91 | 14383.9 | 0.72 | 2.46 | 6.83 | 17.83 |
| 89 | 03:00 | 42 | 59.5 | 137 | 39.7 | 4.94 | 5.43 | 6.55 | 0.49 | 1.12 | 1.61 | 42.99 | 137.66 | 392.64 | 101.88 | 86.59 | 530.640 | 1707.64 | 4466.64 | 10934.6 | 0.66 | 2.12 | 5.54 | 13.55 |
| 90 | 03:30 | 42 | 59.9 | 137 | 32.8 | 4.93 | 5.44 | 6.50 | 0.51 | 1.06 | 1.57 | 43.00 | 137.55 | 408.78 | 97.85 | 83.17 | 555.780 | 1841.78 | 4965.77 | 12549.7 | 0.69 | 2.29 | 6.16 | 15.55 |
| 91 | J13 | | | | | | | | | | | | | | | | | | | | | | | |
| 92 | 05:15 | 42 | 44.5 | 138 | 42.3 | 4.85 | 5.33 | 6.30 | 0.48 | 0.97 | 1.45 | 42.74 | 138.71 | 384.57 | 104.01 | 88.41 | 517.570 | 1642.57 | 4233.56 | 10202.5 | 0.64 | 2.04 | 5.25 | 12.65 |
| 93 | 05:30 | 42 | 44.6 | 138 | 45.7 | 4.88 | 5.36 | 6.30 | 0.48 | 0.94 | 1.42 | 42.74 | 138.76 | 384.57 | 104.01 | 88.41 | 517.570 | 1642.57 | 4233.56 | 10202.5 | 0.64 | 2.04 | 5.25 | 12.65 |
| 94 | J14 | | | | | | | | | | | | | | | | | | | | | | | |
| 95 | 02:30 | 42 | 29.7 | 138 | 58.3 | 4.91 | 5.40 | 6.40 | 0.49 | 1.00 | 1.49 | 42.50 | 138.97 | 392.64 | 101.88 | 86.59 | 530.640 | 1707.64 | 4466.64 | 10934.6 | 0.66 | 2.12 | 5.54 | 13.55 |
| 96 | 03:00 | 42 | 29.8 | 138 | 51.2 | 4.92 | 5.47 | 6.60 | 0.55 | 1.13 | 1.68 | 42.50 | 138.85 | 441.06 | 90.69 | 77.09 | 608.059 | 2136.06 | 6115.06 | 16478.0 | 0.76 | 2.65 | 7.58 | 20.42 |
| 97 | 03:30 | 42 | 29.8 | 138 | 44.0 | 4.91 | 5.37 | 6.60 | 0.46 | 1.23 | 1.69 | 42.50 | 138.73 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 98 | J15 | | | | | | | | | | | | | | | | | | | | | | | |
| 99 | 18:00 | 42 | 14.1 | 138 | 50.2 | 4.95 | 5.70 | 6.65 | 0.75 | 0.95 | 1.70 | 42.24 | 138.84 | 602.47 | 66.39 | 56.43 | 886.469 | 4208.46 | 16490.4 | 61896.4 | 1.10 | 5.22 | 20.44 | 76.70 |
| 100 | 18:15 | 42 | 14.1 | 138 | 54.1 | 4.95 | 5.80 | 6.85 | 0.85 | 1.05 | 1.90 | 42.24 | 138.90 | 683.18 | 58.55 | 49.77 | 1039.17 | 5751.18 | 26502.1 | 117891. | 1.29 | 7.13 | 32.84 | 146.08 |
| 101 | J16 | | | | | | | | | | | | | | | | | | | | | | | |
| 102 | 13:15 | 42 | 0.1 | 138 | 54.6 | 4.98 | 5.48 | 6.00 | 0.50 | 0.52 | 1.02 | 42.00 | 138.91 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 103 | 13:30 | 41 | 59.9 | 138 | 51.4 | 4.94 | 5.48 | 6.20 | 0.54 | 0.72 | 1.26 | 42.00 | 138.86 | 432.99 | 92.38 | 78.52 | 594.989 | 2058.98 | 5807.99 | 15401.9 | 0.74 | 2.55 | 7.20 | 19.09 |
| 104 | J17 | | | | | | | | | | | | | | | | | | | | | | | |
| 105 | 18:30 | 41 | 44.9 | 137 | 30.3 | 4.92 | 5.24 | 7.10 | 0.32 | 1.86 | 2.18 | 41.75 | 137.51 | 255.44 | 156.59 | 133.10 | 326.440 | 823.440 | 1688.43 | 3193.43 | 0.41 | 1.02 | 2.10 | 3.96 |
| 106 | 19:00 | 41 | 45.2 | 137 | 37.2 | 4.92 | 5.24 | 7.15 | 0.32 | 1.91 | 2.23 | 41.75 | 137.62 | 255.44 | 156.59 | 133.10 | 326.440 | 823.440 | 1688.43 | 3193.43 | 0.41 | 1.02 | 2.10 | 3.96 |
| 107 | 19:30 | 41 | 45.4 | 137 | 44.2 | 4.93 | 5.26 | 7.20 | 0.33 | 1.94 | 2.27 | 41.76 | 137.74 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |
| 108 | 20:00 | 41 | 45.8 | 137 | 51.2 | 4.93 | 5.27 | 7.25 | 0.34 | 1.98 | 2.32 | 41.76 | 137.85 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 109 | 20:30 | 41 | 46.1 | 137 | 58.2 | 4.92 | 5.30 | 7.13 | 0.38 | 1.83 | 2.21 | 41.77 | 137.97 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 110 | 21:00 | 41 | 46.1 | 138 | 5.6 | 4.93 | 5.26 | 7.00 | 0.33 | 1.74 | 2.07 | 41.77 | 138.09 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 111 | 21:30 | 41 | 46.1 | 138 | 13.1 | 4.95 | 5.35 | 6.90 | 0.40 | 1.55 | 1.95 | 41.77 | 138.22 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 112 | 22:00 | 41 | 46.0 | 138 | 20.5 | 4.94 | 5.40 | 6.80 | 0.46 | 1.40 | 1.86 | 41.77 | 138.34 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 113 | 22:30 | 41 | 45.9 | 138 | 27.7 | 4.95 | 5.41 | 6.70 | 0.46 | 1.29 | 1.75 | 41.77 | 138.46 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 114 | 23:00 | 41 | 45.8 | 138 | 34.9 | 4.96 | 5.41 | 6.75 | 0.45 | 1.34 | 1.79 | 41.76 | 138.58 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 115 | 00:30 | 41 | 45.2 | 138 | 56.3 | 2.67 | 2.90 | 3.00 | 0.23 | 0.10 | 0.33 | 41.75 | 138.94 | 182.81 | 218.81 | 185.99 | 226.809 | 504.809 | 917.809 | 1531.81 | 0.28 | 0.63 | 1.14 | 1.90 |
| 116 | 01:00 | 41 | 45.4 | 139 | 3.4 | 2.60 | 3.07 | 3.32 | 0.47 | 0.25 | 0.72 | 41.76 | 139.06 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 117 | 01:30 | 41 | 45.2 | 139 | 10.5 | 2.80 | 3.20 | 3.75 | 0.40 | 0.55 | 0.95 | 41.75 | 139.18 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 118 | J18 | | | | | | | | | | | | | | | | | | | | | | | |
| 119 | 12:30 | 41 | 30.0 | 138 | 22.0 | 4.94 | 5.43 | 6.55 | 0.49 | 1.12 | 1.61 | 41.50 | 138.37 | 392.64 | 101.88 | 86.59 | 530.640 | 1707.64 | 4466.64 | 10934.6 | 0.66 | 2.12 | 5.54 | 13.55 |
| 120 | 13:00 | 41 | 29.5 | 138 | 15.2 | 4.95 | 5.41 | 6.52 | 0.46 | 1.11 | 1.57 | 41.49 | 138.25 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 121 | 13:30 | 41 | 29.7 | 138 | 8.4 | 4.94 | 5.32 | 6.65 | 0.38 | 1.33 | 1.71 | 41.50 | 138.14 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 122 | 14:00 | 41 | 29.8 | 138 | 1.6 | 4.93 | 5.31 | 6.60 | 0.38 | 1.29 | 1.67 | 41.50 | 138.03 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 123 | 14:30 | 41 | 29.8 | 137 | 54.6 | 4.93 | 5.22 | 6.75 | 0.29 | 1.53 | 1.82 | 41.50 | 137.91 | 231.23 | 172.99 | 147.04 | 293.229 | 707.229 | 1393.22 | 2524.22 | 0.37 | 0.88 | 1.73 | 3.13 |
| 124 | 15:00 | 41 | 29.9 | 137 | 47.5 | 4.93 | 5.25 | 6.80 | 0.32 | 1.55 | 1.87 | 41.50 | 137.79 | 255.44 | 156.59 | 133.10 | 326.440 | 823.440 | 1688.43 | 3193.43 | 0.41 | 1.02 | 2.10 | 3.96 |
| 125 | 15:30 | 41 | 30.0 | 137 | 40.5 | 4.92 | 5.28 | 7.00 | 0.36 | 1.72 | 2.08 | 41.50 | 137.68 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 126 | 16:00 | 41 | 30.0 | 137 | 33.5 | 4.92 | 5.32 | 6.95 | 0.40 | 1.63 | 2.03 | 41.50 | 137.56 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 127 | 16:30 | 41 | 30.3 | 137 | 26.6 | 4.90 | 5.30 | 6.90 | 0.40 | 1.60 | 2.00 | 41.51 | 137.44 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 128 | J19 | | | | | | | | | | | | | | | | | | | | | | | |
| 129 | 10:30 | 40 | 59.8 | 137 | 45.4 | 4.88 | 5.20 | 6.17 | 0.32 | 0.97 | 1.29 | 41.00 | 137.76 | 255.44 | 156.59 | 133.10 | 326.440 | 823.440 | 1688.43 | 3193.43 | 0.41 | 1.02 | 2.10 | 3.96 |
| 130 | 11:00 | 41 | 4.6 | 137 | 44.6 | 4.93 | 5.20 | 6.37 | 0.27 | 1.17 | 1.44 | 41.08 | 137.74 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 131 | 11:30 | 41 | 9.6 | 137 | 44.4 | 4.93 | 5.20 | 6.37 | 0.27 | 1.17 | 1.44 | 41.16 | 137.74 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 132 | 12:00 | 41 | 14.7 | 137 | 45.0 | 4.92 | 5.20 | 6.40 | 0.28 | 1.20 | 1.48 | 41.25 | 137.75 | 223.16 | 179.25 | 152.36 | 281.160 | 671.160 | 1303.16 | 2330.15 | 0.35 | 0.84 | 1.62 | 2.89 |
| 133 | 12:30 | 41 | 14.7 | 137 | 52.4 | 4.94 | 5.20 | 6.25 | 0.26 | 1.05 | 1.31 | 41.25 | 137.87 | 207.02 | 193.22 | 164.24 | 260.020 | 602.020 | 1138.02 | 1978.02 | 0.33 | 0.75 | 1.41 | 2.45 |
| 134 | 13:00 | 41 | 15.3 | 137 | 59.7 | 4.94 | 5.20 | 6.40 | 0.26 | 1.20 | 1.46 | 41.26 | 138.00 | 207.02 | 193.22 | 164.24 | 260.020 | 602.020 | 1138.02 | 1978.02 | 0.33 | 0.75 | 1.41 | 2.45 |
| 135 | 13:30 | 41 | 14.9 | 138 | 7.3 | 4.93 | 5.25 | 6.46 | 0.32 | 1.21 | 1.53 | 41.25 | 138.12 | 255.44 | 156.59 | 133.10 | 326.440 | 823.440 | 1688.43 | 3193.43 | 0.41 | 1.02 | 2.10 | 3.96 |
| 136 | 14:00 | 41 | 14.5 | 138 | 14.6 | 4.94 | 5.23 | 6.10 | 0.29 | 0.87 | 1.16 | 41.24 | 138.24 | 231.23 | 172.99 | 147.04 | 293.229 | 707.229 | 1393.22 | 2524.22 | 0.37 | 0.88 | 1.73 | 3.13 |
| 137 | 14:30 | 41 | 14.3 | 138 | 21.7 | 4.94 | 5.21 | 6.20 | 0.27 | 0.99 | 1.26 | 41.24 | 138.36 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 138 | 15:00 | 41 | 14.6 | 138 | 28.9 | 4.90 | 5.19 | 6.30 | 0.29 | 1.11 | 1.40 | 41.24 | 138.48 | 231.23 | 172.99 | 147.04 | 293.229 | 707.229 | 1393.22 | 2524.22 | 0.37 | 0.88 | 1.73 | 3.13 |
| 139 | 15:30 | 41 | 14.6 | 138 | 36.3 | 4.46 | 4.73 | 5.65 | 0.27 | 0.92 | 1.19 | 41.24 | 138.61 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 140 | J20 | | | | | | | | | | | | | | | | | | | | | | | |
| 141 | 05:30 | 41 | 1.0 | 138 | 48.6 | 4.55 | 4.88 | 5.36 | 0.33 | 0.48 | 0.81 | 41.02 | 138.81 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |
| 142 | 06:00 | 41 | 0.8 | 138 | 42.4 | 4.56 | 4.90 | 5.40 | 0.34 | 0.50 | 0.84 | 41.01 | 138.71 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 143 | 06:30 | 41 | 0.5 | 138 | 36.1 | 4.57 | 4.93 | 5.60 | 0.36 | 0.67 | 1.03 | 41.01 | 138.60 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 144 | 07:00 | 41 | 0.6 | 138 | 29.6 | 4.58 | 4.91 | 5.70 | 0.33 | 0.79 | 1.12 | 41.01 | 138.49 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |
| 145 | 08:00 | 41 | 0.5 | 138 | 16.4 | 4.70 | 4.91 | 5.70 | 0.21 | 0.79 | 1.00 | 41.01 | 138.27 | 166.66 | 240.00 | 204.00 | 205.660 | 444.660 | 787.660 | 1280.66 | 0.26 | 0.55 | 0.98 | 1.59 |
| 146 | 08:30 | 41 | 0.6 | 138 | 10.0 | 4.88 | 5.16 | 6.15 | 0.28 | 0.99 | 1.27 | 41.01 | 138.17 | 223.16 | 179.25 | 152.36 | 281.160 | 671.160 | 1303.16 | 2330.15 | 0.35 | 0.84 | 1.62 | 2.89 |
| 147 | 09:00 | 41 | 0.4 | 138 | 3.9 | 4.91 | 5.18 | 6.22 | 0.27 | 1.04 | 1.31 | 41.01 | 138.07 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 148 | 09:30 | 41 | 0.3 | 137 | 57.9 | 4.92 | 5.13 | 6.15 | 0.21 | 1.02 | 1.23 | 41.01 | 137.97 | 166.66 | 240.00 | 204.00 | 205.660 | 444.660 | 787.660 | 1280.66 | 0.26 | 0.55 | 0.98 | 1.59 |
| 149 | 10:00 | 41 | 0.1 | 137 | 51.7 | 4.92 | 5.21 | 6.06 | 0.29 | 0.85 | 1.14 | 41.00 | 137.86 | 231.23 | 172.99 | 147.04 | 293.229 | 707.229 | 1393.22 | 2524.22 | 0.37 | 0.88 | 1.73 | 3.13 |
| 150 | 10:30 | 40 | 59.8 | 137 | 45.4 | 4.88 | 5.18 | 6.17 | 0.30 | 0.99 | 1.29 | 41.00 | 137.76 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 151 | J21 | | | | | | | | | | | | | | | | | | | | | | | |
| 152 | 18:30 | 40 | 44.8 | 137 | 52.8 | 4.70 | 5.33 | 5.58 | 0.63 | 0.25 | 0.88 | 40.75 | 137.88 | 505.62 | 79.11 | 67.24 | 715.619 | 2831.62 | 9172.62 | 28170.6 | 0.89 | 3.51 | 11.37 | 34.91 |
| 153 | 19:00 | 40 | 44.7 | 137 | 59.9 | 4.80 | 5.43 | 5.70 | 0.63 | 0.27 | 0.90 | 40.75 | 138.00 | 505.62 | 79.11 | 67.24 | 715.619 | 2831.62 | 9172.62 | 28170.6 | 0.89 | 3.51 | 11.37 | 34.91 |
| 154 | 19:30 | 40 | 44.7 | 138 | 7.0 | 4.78 | 5.40 | 5.66 | 0.62 | 0.26 | 0.88 | 40.75 | 138.12 | 497.55 | 80.39 | 68.33 | 701.549 | 2736.55 | 8725.54 | 26360.5 | 0.87 | 3.39 | 10.82 | 32.67 |
| 155 | 20:30 | 40 | 45.6 | 138 | 21.1 | 4.45 | 4.93 | 5.20 | 0.48 | 0.27 | 0.75 | 40.76 | 138.35 | 384.57 | 104.01 | 88.41 | 517.570 | 1642.57 | 4233.56 | 10202.5 | 0.64 | 2.04 | 5.25 | 12.65 |
| 156 | 21:00 | 40 | 45.7 | 138 | 28.4 | 4.54 | 5.00 | 5.30 | 0.46 | 0.30 | 0.76 | 40.76 | 138.47 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 157 | 21:30 | 40 | 45.6 | 138 | 35.6 | 4.50 | 4.93 | 5.15 | 0.43 | 0.22 | 0.65 | 40.76 | 138.59 | 344.21 | 116.21 | 98.78 | 456.209 | 1345.20 | 3221.20 | 7181.20 | 0.57 | 1.67 | 3.99 | 8.90 |
| 158 | 22:00 | 40 | 45.3 | 138 | 42.8 | 4.40 | 4.85 | 5.04 | 0.45 | 0.19 | 0.64 | 40.76 | 138.71 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 159 | J22 | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 22:00 | 40 | 30.7 | 138 | 17.6 | 4.31 | 4.70 | 4.88 | 0.39 | 0.18 | 0.57 | 40.51 | 138.29 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 161 | 22:30 | 40 | 30.2 | 138 | 11.0 | 4.50 | 4.95 | 5.15 | 0.45 | 0.20 | 0.65 | 40.50 | 138.18 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 162 | 23:00 | 40 | 30.1 | 138 | 4.3 | 4.41 | 4.90 | 5.06 | 0.49 | 0.16 | 0.65 | 40.50 | 138.07 | 392.64 | 101.88 | 86.59 | 530.640 | 1707.64 | 4466.64 | 10934.6 | 0.66 | 2.12 | 5.54 | 13.55 |
| 163 | J23 | | | | | | | | | | | | | | | | | | | | | | | |
| 164 | 00:00 | 40 | 19.2 | 136 | 27.5 | 4.34 | 4.73 | 4.80 | 0.39 | 0.07 | 0.46 | 40.32 | 136.46 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 165 | 00:30 | 40 | 19.6 | 136 | 34.2 | 4.37 | 4.82 | 5.00 | 0.45 | 0.18 | 0.63 | 40.33 | 136.57 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 166 | 01:45 | 40 | 19.6 | 136 | 51.4 | 3.32 | 3.75 | 4.15 | 0.43 | 0.40 | 0.83 | 40.33 | 136.86 | 344.22 | 116.21 | 98.78 | 456.220 | 1345.21 | 3221.21 | 7181.22 | 0.57 | 1.67 | 3.99 | 8.90 |
| 167 | 03:00 | 40 | 16.9 | 137 | 8.3 | 3.14 | 3.55 | 3.90 | 0.41 | 0.35 | 0.76 | 40.28 | 137.14 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 168 | 03:40 | 40 | 15.3 | 137 | 17.5 | 3.52 | 3.90 | 4.30 | 0.38 | 0.40 | 0.78 | 40.26 | 137.29 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 169 | 04:00 | 40 | 14.8 | 137 | 22.0 | 3.71 | 4.10 | 4.37 | 0.39 | 0.27 | 0.66 | 40.25 | 137.37 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 170 | 04:30 | 40 | 14.3 | 137 | 29.0 | 3.86 | 4.26 | 4.65 | 0.40 | 0.39 | 0.79 | 40.24 | 137.48 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 171 | 05:30 | 40 | 14.3 | 137 | 42.8 | 3.80 | 4.36 | 4.63 | 0.56 | 0.27 | 0.83 | 40.24 | 137.71 | 449.13 | 89.06 | 75.70 | 621.130 | 2215.12 | 6439.12 | 17634.1 | 0.77 | 2.75 | 7.98 | 21.85 |
| 172 | 07:00 | 40 | 14.6 | 138 | 3.9 | 3.99 | 4.37 | 4.50 | 0.38 | 0.13 | 0.51 | 40.24 | 138.07 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 173 | 07:30 | 40 | 14.5 | 138 | 11.1 | 4.01 | 4.42 | 4.67 | 0.41 | 0.25 | 0.66 | 40.24 | 138.19 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 174 | 08:00 | 40 | 14.6 | 138 | 18.1 | 3.66 | 4.02 | 4.25 | 0.36 | 0.23 | 0.59 | 40.24 | 138.30 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 175 | 08:30 | 40 | 14.4 | 138 | 25.2 | 3.34 | 3.78 | 4.04 | 0.44 | 0.26 | 0.70 | 40.24 | 138.42 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 176 | 09:00 | 40 | 14.5 | 138 | 32.0 | 3.55 | 4.00 | 4.10 | 0.45 | 0.10 | 0.55 | 40.24 | 138.53 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 177 | 09:30 | 40 | 14.7 | 138 | 38.8 | 3.77 | 4.20 | 4.35 | 0.43 | 0.15 | 0.58 | 40.25 | 138.65 | 344.22 | 116.21 | 98.78 | 456.220 | 1345.21 | 3221.21 | 7181.22 | 0.57 | 1.67 | 3.99 | 8.90 |
| 178 | 10:00 | 40 | 14.6 | 138 | 45.6 | 3.99 | 4.40 | 4.58 | 0.41 | 0.18 | 0.59 | 40.24 | 138.76 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 179 | 14:00 | 40 | 14.9 | 139 | 2.8 | 3.48 | 3.95 | 4.23 | 0.47 | 0.28 | 0.75 | 40.25 | 139.05 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 180 | 14:30 | 40 | 15.1 | 139 | 9.2 | 3.46 | 4.08 | 4.33 | 0.62 | 0.25 | 0.87 | 40.25 | 139.15 | 497.55 | 80.39 | 68.33 | 701.549 | 2736.55 | 8725.54 | 26360.5 | 0.87 | 3.39 | 10.82 | 32.67 |
| 181 | J24 | | | | | | | | | | | | | | | | | | | | | | | |
| 182 | 07:30 | 39 | 59.8 | 138 | 24.6 | 3.44 | 3.87 | 4.10 | 0.43 | 0.23 | 0.66 | 40.00 | 138.41 | 344.22 | 116.21 | 98.78 | 456.220 | 1345.21 | 3221.21 | 7181.22 | 0.57 | 1.67 | 3.99 | 8.90 |
| 183 | 08:00 | 39 | 59.6 | 138 | 18.1 | 3.33 | 3.70 | 3.85 | 0.37 | 0.15 | 0.52 | 39.99 | 138.30 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 184 | 08:30 | 39 | 59.5 | 138 | 11.6 | 3.70 | 4.05 | 4.15 | 0.35 | 0.10 | 0.45 | 39.99 | 138.19 | 279.65 | 143.04 | 121.58 | 360.649 | 949.650 | 2029.65 | 4010.64 | 0.45 | 1.18 | 2.52 | 4.97 |
| 185 | 12:45 | 39 | 59.6 | 137 | 13.6 | 3.05 | 3.47 | 3.70 | 0.42 | 0.23 | 0.65 | 39.99 | 137.23 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 186 | 13:00 | 39 | 59.8 | 137 | 10.2 | 3.05 | 3.40 | 3.54 | 0.35 | 0.14 | 0.49 | 40.00 | 137.17 | 279.65 | 143.04 | 121.58 | 360.649 | 949.650 | 2029.65 | 4010.64 | 0.45 | 1.18 | 2.52 | 4.97 |
| 187 | J104 | | | | | | | | | | | | | | | | | | | | | | | |
| 188 | 04:30 | 42 | 31.1 | 136 | 24.9 | 4.91 | 5.14 | 5.70 | 0.23 | 0.56 | 0.79 | 42.52 | 136.42 | 182.80 | 218.81 | 185.99 | 226.800 | 504.799 | 917.799 | 1531.80 | 0.28 | 0.63 | 1.14 | 1.90 |
| 189 | 05:00 | 42 | 26.4 | 136 | 28.0 | 4.92 | 5.17 | 6.55 | 0.25 | 1.38 | 1.63 | 42.44 | 136.47 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 190 | 05:30 | 42 | 21.6 | 136 | 30.9 | 4.91 | 5.17 | 6.75 | 0.26 | 1.58 | 1.84 | 42.36 | 136.52 | 207.02 | 193.22 | 164.24 | 260.020 | 602.020 | 1138.02 | 1978.02 | 0.33 | 0.75 | 1.41 | 2.45 |
| 191 | 06:00 | 42 | 16.7 | 136 | 33.7 | 4.91 | 5.18 | 6.70 | 0.27 | 1.52 | 1.79 | 42.28 | 136.56 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 192 | 06:30 | 42 | 11.9 | 136 | 36.3 | 4.91 | 5.18 | 6.75 | 0.27 | 1.57 | 1.84 | 42.20 | 136.61 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 193 | 07:00 | 42 | 7.0 | 136 | 39.1 | 4.90 | 5.20 | 6.70 | 0.30 | 1.50 | 1.80 | 42.12 | 136.65 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 194 | 07:30 | 42 | 2.3 | 136 | 42.2 | 4.89 | 5.20 | 7.00 | 0.31 | 1.80 | 2.11 | 42.04 | 136.70 | 247.37 | 161.70 | 137.45 | 315.369 | 783.369 | 1584.36 | 2955.37 | 0.39 | 0.97 | 1.97 | 3.67 |
| 195 | 08:00 | 41 | 57.6 | 136 | 45.3 | 4.89 | 5.20 | | 0.31 | | | 41.96 | 136.76 | 247.37 | 161.70 | 137.45 | 315.369 | 783.369 | 1584.36 | 2955.37 | 0.39 | 0.97 | 1.97 | 3.67 |
| 196 | 08:30 | 41 | 52.8 | 136 | 48.4 | 4.85 | 5.19 | | 0.34 | | | 41.88 | 136.81 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 197 | 09:00 | 41 | 48.4 | 136 | 51.0 | 4.83 | 5.17 | | 0.34 | | | 41.81 | 136.85 | 274.00 | 145.98 | 124.09 | 353 | 919 | 1945 | 3805 | 0.44 | 1.14 | 2.41 | 4.72 |
| 198 | 09:30 | 41 | 43.4 | 136 | 53.8 | 4.83 | 5.15 | | 0.32 | | | 41.72 | 136.90 | 255.44 | 156.59 | 133.10 | 326.440 | 823.440 | 1688.43 | 3193.43 | 0.41 | 1.02 | 2.10 | 3.96 |
| 199 | 10:00 | 41 | 38.8 | 136 | 56.5 | 4.82 | 5.12 | | 0.30 | | | 41.65 | 136.94 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 200 | 10:30 | 41 | 34.4 | 136 | 59.1 | 4.82 | 5.10 | 6.98 | 0.28 | 1.88 | 2.16 | 41.57 | 136.99 | 223.16 | 179.25 | 152.36 | 281.160 | 671.160 | 1303.16 | 2330.15 | 0.35 | 0.84 | 1.62 | 2.89 |
| 201 | 11:00 | 41 | 29.7 | 137 | 2.0 | 4.84 | 5.10 | 6.85 | 0.26 | 1.75 | 2.01 | 41.50 | 137.03 | 207.02 | 193.22 | 164.24 | 260.020 | 602.020 | 1138.02 | 1978.02 | 0.33 | 0.75 | 1.41 | 2.45 |
| 202 | 11:30 | 41 | 24.8 | 137 | 4.8 | 4.83 | 5.10 | 7.00 | 0.27 | 1.90 | 2.17 | 41.41 | 137.08 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 203 | 12:00 | 41 | 20.4 | 137 | 7.9 | 4.81 | 5.15 | 6.60 | 0.34 | 1.45 | 1.79 | 41.34 | 137.13 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 204 | 12:30 | 41 | 15.5 | 137 | 11.1 | 4.79 | 5.16 | 6.40 | 0.37 | 1.24 | 1.61 | 41.26 | 137.19 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 205 | 13:00 | 41 | 10.6 | 137 | 14.1 | 4.76 | 5.16 | 6.15 | 0.40 | 0.99 | 1.39 | 41.18 | 137.24 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 206 | 13:30 | 41 | 5.8 | 137 | 16.7 | 4.74 | 5.18 | 6.05 | 0.44 | 0.87 | 1.31 | 41.10 | 137.28 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 207 | 14:00 | 41 | 1.0 | 137 | 19.1 | 4.65 | 5.15 | 5.95 | 0.50 | 0.80 | 1.30 | 41.02 | 137.32 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 208 | 14:30 | 40 | 56.2 | 137 | 21.7 | 4.47 | 4.98 | 5.80 | 0.51 | 0.82 | 1.33 | 40.94 | 137.36 | 408.78 | 97.85 | 83.17 | 555.780 | 1841.78 | 4965.77 | 12549.7 | 0.69 | 2.29 | 6.16 | 15.55 |
| 209 | 15:00 | 40 | 51.3 | 137 | 24.3 | 4.38 | 4.90 | 5.55 | 0.52 | 0.65 | 1.17 | 40.86 | 137.41 | 416.85 | 95.96 | 81.56 | 568.849 | 1912.84 | 5233.85 | 13439.8 | 0.71 | 2.37 | 6.49 | 16.66 |
| 210 | 15:30 | 40 | 46.4 | 137 | 27.0 | 4.20 | 4.80 | 5.30 | 0.60 | 0.50 | 1.10 | 40.77 | 137.45 | 481.41 | 83.09 | 70.63 | 674.410 | 2552.40 | 7889.41 | 23061.4 | 0.84 | 3.17 | 9.78 | 28.58 |
| 211 | 16:00 | 40 | 41.8 | 137 | 30.0 | 4.02 | 4.45 | 4.75 | 0.43 | 0.30 | 0.73 | 40.70 | 137.50 | 344.22 | 116.21 | 98.78 | 456.220 | 1345.21 | 3221.21 | 7181.22 | 0.57 | 1.67 | 3.99 | 8.90 |
| 212 | 18:30 | 40 | 18.0 | 137 | 44.1 | 3.86 | 4.30 | 4.50 | 0.44 | 0.20 | 0.64 | 40.30 | 137.74 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 213 | N11 | | | | | | | | | | | | | | | | | | | | | | | |
| 214 | 02:30 | 39 | 58.1 | 138 | 12.6 | 3.59 | 3.90 | 4.20 | 0.31 | 0.30 | 0.61 | 39.97 | 138.21 | 247.37 | 161.70 | 137.45 | 315.369 | 783.369 | 1584.36 | 2955.37 | 0.39 | 0.97 | 1.97 | 3.67 |
| 215 | 03:00 | 39 | 56.2 | 138 | 18.9 | 3.43 | 3.81 | 4.03 | 0.38 | 0.22 | 0.60 | 39.94 | 138.32 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 216 | 03:30 | 39 | 54.5 | 138 | 25.5 | 3.56 | 3.98 | 4.44 | 0.42 | 0.46 | 0.88 | 39.91 | 138.43 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 217 | 04:00 | 39 | 52.7 | 138 | 32.2 | 3.33 | 3.81 | 3.95 | 0.48 | 0.14 | 0.62 | 39.88 | 138.54 | 384.57 | 104.01 | 88.41 | 517.570 | 1642.57 | 4233.56 | 10202.5 | 0.64 | 2.04 | 5.25 | 12.65 |
| 218 | N9 | | | | | | | | | | | | | | | | | | | | | | | |
| 219 | 20:15 | 39 | 43.4 | 137 | 4.6 | 3.50 | 3.87 | 4.00 | 0.37 | 0.13 | 0.50 | 39.72 | 137.08 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 220 | 20:30 | 39 | 41.7 | 137 | 7.3 | 3.50 | 3.94 | 4.60 | 0.44 | 0.66 | 1.10 | 39.70 | 137.12 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 221 | 21:00 | 39 | 40.1 | 137 | 14.1 | 3.46 | 3.92 | 4.76 | 0.46 | 0.84 | 1.30 | 39.67 | 137.24 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 222 | 21:30 | 39 | 39.6 | 137 | 20.9 | 3.48 | 3.94 | 4.63 | 0.46 | 0.69 | 1.15 | 39.66 | 137.35 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 223 | 22:00 | 39 | 39.1 | 137 | 27.7 | 3.57 | 3.92 | 4.50 | 0.35 | 0.58 | 0.93 | 39.65 | 137.46 | 279.65 | 143.04 | 121.58 | 360.649 | 949.650 | 2029.65 | 4010.64 | 0.45 | 1.18 | 2.52 | 4.97 |
| 224 | 22:30 | 39 | 37.2 | 137 | 34.0 | 3.50 | 3.86 | 4.35 | 0.36 | 0.49 | 0.85 | 39.62 | 137.57 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 225 | 23:30 | 39 | 33.6 | 137 | 46.7 | 3.51 | 3.76 | 4.28 | 0.25 | 0.52 | 0.77 | 39.56 | 137.78 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 226 | 00:00 | 39 | 31.9 | 137 | 53.3 | 3.50 | 3.76 | 4.01 | 0.26 | 0.25 | 0.51 | 39.53 | 137.89 | 207.02 | 193.22 | 164.24 | 260.020 | 602.020 | 1138.02 | 1978.02 | 0.33 | 0.75 | 1.41 | 2.45 |
| 227 | 00:30 | 39 | 30.3 | 137 | 59.8 | 3.30 | 3.60 | 4.00 | 0.30 | 0.40 | 0.70 | 39.51 | 138.00 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 228 | 02:00 | 39 | 24.9 | 138 | 19.4 | 2.98 | 3.23 | 3.70 | 0.25 | 0.47 | 0.72 | 39.42 | 138.32 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 229 | N8 | | | | | | | | | | | | | | | | | | | | | | | |
| 230 | 05:00 | 39 | 14.5 | 138 | 0.6 | 3.12 | 3.40 | 3.50 | 0.28 | 0.10 | 0.38 | 39.24 | 138.01 | 223.16 | 179.25 | 152.36 | 281.160 | 671.160 | 1303.16 | 2330.15 | 0.35 | 0.84 | 1.62 | 2.89 |
| 231 | 05:30 | 39 | 15.9 | 137 | 54.0 | 3.37 | 3.78 | 4.30 | 0.41 | 0.52 | 0.93 | 39.27 | 137.90 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 232 | 06:00 | 39 | 17.4 | 137 | 47.5 | 3.40 | 3.89 | 4.60 | 0.49 | 0.71 | 1.20 | 39.29 | 137.79 | 392.64 | 101.88 | 86.59 | 530.640 | 1707.64 | 4466.64 | 10934.6 | 0.66 | 2.12 | 5.54 | 13.55 |
| 233 | 06:30 | 39 | 19.2 | 137 | 41.1 | 3.44 | 3.94 | 4.74 | 0.50 | 0.80 | 1.30 | 39.32 | 137.69 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 234 | 07:00 | 39 | 20.9 | 137 | 34.8 | 3.44 | 4.00 | 4.79 | 0.56 | 0.79 | 1.35 | 39.35 | 137.58 | 449.13 | 89.06 | 75.70 | 621.130 | 2215.12 | 6439.12 | 17634.1 | 0.77 | 2.75 | 7.98 | 21.85 |
| 235 | 07:30 | 39 | 22.9 | 137 | 28.8 | 3.40 | 4.00 | 4.90 | 0.60 | 0.90 | 1.50 | 39.38 | 137.48 | 481.41 | 83.09 | 70.63 | 674.410 | 2552.40 | 7889.41 | 23061.4 | 0.84 | 3.17 | 9.78 | 28.58 |
| 236 | 08:00 | 39 | 24.8 | 137 | 22.6 | 3.29 | 4.02 | 4.92 | 0.73 | 0.90 | 1.63 | 39.41 | 137.38 | 586.33 | 68.22 | 57.99 | 857.330 | 3946.33 | 14971.3 | 54324.3 | 1.07 | 4.89 | 18.55 | 67.32 |
| 237 | 09:00 | 39 | 28.2 | 137 | 10.2 | 3.35 | 4.03 | 4.45 | 0.68 | 0.42 | 1.10 | 39.47 | 137.17 | 545.98 | 73.26 | 62.27 | 784.979 | 3350.97 | 11742.9 | 39186.9 | 0.98 | 4.16 | 14.55 | 48.56 |
| 238 | 09:30 | 39 | 30.0 | 137 | 4.0 | 3.42 | 3.93 | 4.58 | 0.51 | 0.65 | 1.16 | 39.50 | 137.07 | 408.78 | 97.85 | 83.17 | 555.780 | 1841.78 | 4965.77 | 12549.7 | 0.69 | 2.29 | 6.16 | 15.55 |
| 239 | 10:00 | 39 | 31.7 | 136 | 57.6 | 3.48 | 3.90 | 4.46 | 0.42 | 0.56 | 0.98 | 39.53 | 136.96 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 240 | 10:30 | 39 | 33.6 | 136 | 51.1 | 3.52 | 3.90 | 4.42 | 0.38 | 0.52 | 0.90 | 39.56 | 136.85 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 241 | 11:00 | 39 | 35.5 | 136 | 44.5 | 3.54 | 3.87 | 4.18 | 0.33 | 0.31 | 0.64 | 39.59 | 136.74 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |
| 242 | N7 | | | | | | | | | | | | | | | | | | | | | | | |
| 243 | 01:30 | 39 | 26.8 | 136 | 17.3 | 3.60 | 3.82 | 4.40 | 0.22 | 0.58 | 0.80 | 39.45 | 136.29 | 174.73 | 228.92 | 194.58 | 216.729 | 474.729 | 851.729 | 1401.72 | 0.27 | 0.59 | 1.06 | 1.74 |
| 244 | 02:00 | 39 | 25.1 | 136 | 23.6 | 3.60 | 3.84 | 4.45 | 0.24 | 0.61 | 0.85 | 39.42 | 136.39 | 190.88 | 209.56 | 178.13 | 237.880 | 535.880 | 987.880 | 1670.88 | 0.30 | 0.67 | 1.23 | 2.07 |
| 245 | 02:30 | 39 | 23.4 | 136 | 29.8 | 3.59 | 3.83 | 4.46 | 0.24 | 0.63 | 0.87 | 39.39 | 136.50 | 190.88 | 209.56 | 178.13 | 237.880 | 535.880 | 987.880 | 1670.88 | 0.30 | 0.67 | 1.23 | 2.07 |
| 246 | 03:00 | 39 | 21.5 | 136 | 36.1 | 3.59 | 3.81 | 4.70 | 0.22 | 0.89 | 1.11 | 39.36 | 136.60 | 174.73 | 228.92 | 194.58 | 216.729 | 474.729 | 851.729 | 1401.72 | 0.27 | 0.59 | 1.06 | 1.74 |
| 247 | 03:30 | 39 | 19.9 | 136 | 42.2 | 3.55 | 3.80 | 4.70 | 0.25 | 0.90 | 1.15 | 39.33 | 136.70 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 248 | 04:00 | 39 | 18.3 | 136 | 48.4 | 3.49 | 3.75 | 4.50 | 0.26 | 0.75 | 1.01 | 39.31 | 136.81 | 207.02 | 193.22 | 164.24 | 260.020 | 602.020 | 1138.02 | 1978.02 | 0.33 | 0.75 | 1.41 | 2.45 |
| 249 | 04:30 | 39 | 16.6 | 136 | 54.7 | 3.40 | 3.78 | 4.65 | 0.38 | 0.87 | 1.25 | 39.28 | 136.91 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 250 | 05:00 | 39 | 14.7 | 137 | 1.0 | 3.26 | 3.79 | 4.44 | 0.53 | 0.65 | 1.18 | 39.25 | 137.02 | 424.92 | 94.14 | 80.02 | 581.920 | 1984.92 | 5512.91 | 14383.9 | 0.72 | 2.46 | 6.83 | 17.83 |
| 251 | 06:30 | 39 | 9.3 | 137 | 19.9 | 3.04 | 3.70 | 4.50 | 0.66 | 0.80 | 1.46 | 39.16 | 137.33 | 529.84 | 75.49 | 64.17 | 756.840 | 3134.84 | 10641.8 | 34347.8 | 0.94 | 3.89 | 13.19 | 42.56 |
| 252 | 07:00 | 39 | 7.7 | 137 | 26.2 | 3.10 | 3.67 | 4.64 | 0.57 | 0.97 | 1.54 | 39.13 | 137.44 | 457.20 | 87.49 | 74.37 | 634.200 | 2295.19 | 6775.20 | 18859.1 | 0.79 | 2.85 | 8.40 | 23.37 |
| 253 | 07:30 | 39 | 6.2 | 137 | 32.4 | 3.08 | 3.59 | 4.60 | 0.51 | 1.01 | 1.52 | 39.10 | 137.54 | 408.78 | 97.85 | 83.17 | 555.780 | 1841.78 | 4965.77 | 12549.7 | 0.69 | 2.29 | 6.16 | 15.55 |
| 254 | 08:00 | 39 | 4.8 | 137 | 38.7 | 3.13 | 3.61 | 4.31 | 0.48 | 0.70 | 1.18 | 39.08 | 137.65 | 384.57 | 104.01 | 88.41 | 517.570 | 1642.57 | 4233.56 | 10202.5 | 0.64 | 2.04 | 5.25 | 12.65 |
| 255 | 08:30 | 39 | 3.2 | 137 | 44.8 | 3.13 | 3.60 | 4.25 | 0.47 | 0.65 | 1.12 | 39.05 | 137.75 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 256 | N6 | | | | | | | | | | | | | | | | | | | | | | | |
| 257 | 17:30 | 38 | 42.0 | 138 | 1.3 | 3.36 | 3.62 | 3.72 | 0.26 | 0.10 | 0.36 | 38.70 | 138.02 | 207.02 | 193.22 | 164.24 | 260.020 | 602.020 | 1138.02 | 1978.02 | 0.33 | 0.75 | 1.41 | 2.45 |
| 258 | 18:00 | 38 | 43.7 | 137 | 54.9 | 3.43 | 3.70 | 4.00 | 0.27 | 0.30 | 0.57 | 38.73 | 137.92 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 259 | 19:30 | 38 | 48.1 | 137 | 36.1 | 3.93 | 4.56 | 5.10 | 0.63 | 0.54 | 1.17 | 38.80 | 137.60 | 505.62 | 79.11 | 67.24 | 715.619 | 2831.62 | 9172.62 | 28170.6 | 0.89 | 3.51 | 11.37 | 34.91 |
| 260 | 20:00 | 38 | 49.8 | 137 | 30.0 | 4.08 | 4.52 | 5.10 | 0.44 | 0.58 | 1.02 | 38.83 | 137.50 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 261 | 20:30 | 38 | 51.7 | 137 | 23.8 | 4.11 | 4.53 | 5.40 | 0.42 | 0.87 | 1.29 | 38.86 | 137.40 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 262 | 21:00 | 38 | 53.4 | 137 | 17.7 | 4.22 | 4.60 | 5.50 | 0.38 | 0.90 | 1.28 | 38.89 | 137.30 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 263 | 21:30 | 38 | 55.0 | 137 | 11.4 | 4.26 | 4.60 | 5.35 | 0.34 | 0.75 | 1.09 | 38.92 | 137.19 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 264 | 22:00 | 38 | 56.6 | 137 | 5.1 | 4.33 | 4.59 | 4.85 | 0.26 | 0.26 | 0.52 | 38.94 | 137.09 | 207.02 | 193.22 | 164.24 | 260.020 | 602.020 | 1138.02 | 1978.02 | 0.33 | 0.75 | 1.41 | 2.45 |
| 265 | 22:30 | 38 | 58.5 | 136 | 58.7 | 4.39 | 4.59 | 5.25 | 0.20 | 0.66 | 0.86 | 38.98 | 136.98 | 158.59 | 252.22 | 214.38 | 195.589 | 416.589 | 727.589 | 1167.58 | 0.25 | 0.52 | 0.91 | 1.45 |
| 266 | 23:00 | 38 | 59.6 | 136 | 52.9 | 4.39 | 4.60 | 4.95 | 0.21 | 0.35 | 0.56 | 38.99 | 136.88 | 166.66 | 240.00 | 204.00 | 205.660 | 444.660 | 787.660 | 1280.66 | 0.26 | 0.55 | 0.98 | 1.59 |
| 267 | 23:30 | 39 | 1.7 | 136 | 47.2 | 4.45 | 4.64 | 5.00 | 0.19 | 0.36 | 0.55 | 39.03 | 136.79 | 150.52 | 265.74 | 225.88 | 184.520 | 388.520 | 670.520 | 1062.52 | 0.23 | 0.48 | 0.83 | 1.32 |
| 268 | 00:30 | 39 | 6.1 | 136 | 34.8 | 4.50 | 4.69 | 5.20 | 0.19 | 0.51 | 0.70 | 39.10 | 136.58 | 150.52 | 265.74 | 225.88 | 184.520 | 388.520 | 670.520 | 1062.52 | 0.23 | 0.48 | 0.83 | 1.32 |
| 269 | 01:30 | 39 | 9.7 | 136 | 22.9 | 4.59 | 4.77 | 5.05 | 0.18 | 0.28 | 0.46 | 39.16 | 136.38 | 142.45 | 280.80 | 238.68 | 174.449 | 361.450 | 616.450 | 963.450 | 0.22 | 0.45 | 0.77 | 1.20 |
| 270 | 02:00 | 39 | 11.1 | 136 | 16.9 | 4.60 | 4.80 | 5.30 | 0.20 | 0.50 | 0.70 | 39.19 | 136.28 | 158.59 | 252.22 | 214.38 | 195.589 | 416.589 | 727.589 | 1167.58 | 0.25 | 0.52 | 0.91 | 1.45 |
| 271 | 02:30 | 39 | 12.6 | 136 | 10.9 | 4.60 | 4.88 | 5.00 | 0.28 | 0.12 | 0.40 | 39.21 | 136.18 | 223.16 | 179.25 | 152.36 | 281.160 | 671.160 | 1303.16 | 2330.15 | 0.35 | 0.84 | 1.62 | 2.89 |
| 272 | 03:00 | 39 | 14.2 | 136 | 4.8 | 4.60 | 4.90 | 5.30 | 0.30 | 0.40 | 0.70 | 39.24 | 136.08 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 273 | N5 | | | | | | | | | | | | | | | | | | | | | | | |
| 274 | 13:30 | 38 | 58.9 | 136 | 2.6 | 3.60 | 3.82 | 4.05 | 0.22 | 0.23 | 0.45 | 38.98 | 136.04 | 174.73 | 228.92 | 194.58 | 216.729 | 474.729 | 851.729 | 1401.72 | 0.27 | 0.59 | 1.06 | 1.74 |
| 275 | 17:00 | 38 | 55.3 | 136 | 13.6 | 3.60 | 3.84 | 4.10 | 0.24 | 0.26 | 0.50 | 38.92 | 136.23 | 190.88 | 209.56 | 178.13 | 237.880 | 535.880 | 987.880 | 1670.88 | 0.30 | 0.67 | 1.23 | 2.07 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 276 | 17:30 | 38 | 53.4 | 136 | 19.6 | 3.60 | 3.85 | 4.43 | 0.25 | 0.58 | 0.83 | 38.89 | 136.33 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 277 | 18:00 | 38 | 51.5 | 136 | 25.9 | 3.60 | 3.89 | 4.20 | 0.29 | 0.31 | 0.60 | 38.86 | 136.43 | 231.23 | 172.99 | 147.04 | 293.229 | 707.229 | 1393.22 | 2524.22 | 0.37 | 0.88 | 1.73 | 3.13 |
| 278 | 18:30 | 38 | 49.8 | 136 | 32.4 | 3.59 | 4.00 | 4.75 | 0.41 | 0.75 | 1.16 | 38.83 | 136.54 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 279 | 19:00 | 38 | 48.1 | 136 | 38.8 | 3.54 | 3.98 | 4.77 | 0.44 | 0.79 | 1.23 | 38.80 | 136.65 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 280 | 19:30 | 38 | 46.4 | 136 | 44.9 | 3.50 | 3.92 | 4.60 | 0.42 | 0.68 | 1.10 | 38.77 | 136.75 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 281 | 20:00 | 38 | 44.8 | 136 | 50.9 | 3.42 | 3.58 | 3.75 | 0.16 | 0.17 | 0.33 | 38.75 | 136.85 | 126.31 | 316.68 | 269.18 | 153.309 | 309.309 | 515.309 | 786.309 | 0.19 | 0.39 | 0.64 | 0.98 |
| 282 | N4 | | | | | | | | | | | | | | | | | | | | | | | |
| 283 | 19:00 | 38 | 32.9 | 136 | 38.8 | 3.49 | 3.99 | 4.75 | 0.50 | 0.76 | 1.26 | 38.55 | 136.65 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 284 | 19:30 | 38 | 34.5 | 136 | 33.4 | 3.50 | 4.00 | 4.90 | 0.50 | 0.90 | 1.40 | 38.58 | 136.56 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 285 | 20:00 | 38 | 36.2 | 136 | 28.0 | 3.58 | 4.00 | 4.85 | 0.42 | 0.85 | 1.27 | 38.60 | 136.47 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 286 | 20:30 | 38 | 37.7 | 136 | 22.6 | 3.60 | 3.95 | 4.20 | 0.35 | 0.25 | 0.60 | 38.63 | 136.38 | 279.65 | 143.04 | 121.58 | 360.649 | 949.650 | 2029.65 | 4010.64 | 0.45 | 1.18 | 2.52 | 4.97 |
| 287 | 21:00 | 38 | 39.1 | 136 | 17.1 | 3.63 | 4.06 | 4.70 | 0.43 | 0.64 | 1.07 | 38.65 | 136.29 | 344.21 | 116.21 | 98.78 | 456.209 | 1345.20 | 3221.20 | 7181.20 | 0.57 | 1.67 | 3.99 | 8.90 |
| 288 | 21:30 | 38 | 40.7 | 136 | 11.6 | 3.63 | 4.07 | 4.60 | 0.44 | 0.53 | 0.97 | 38.68 | 136.19 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 289 | 22:30 | 38 | 43.7 | 136 | 0.6 | 3.65 | 4.30 | 4.84 | 0.65 | 0.54 | 1.19 | 38.73 | 136.01 | 521.77 | 76.66 | 65.16 | 742.770 | 3030.77 | 10129.7 | 32158.7 | 0.92 | 3.76 | 12.56 | 39.85 |
| 290 | 01:00 | 38 | 51.3 | 135 | 33.1 | 4.02 | 4.23 | 4.60 | 0.21 | 0.37 | 0.58 | 38.86 | 135.55 | 166.66 | 240.00 | 204.00 | 205.660 | 444.660 | 787.660 | 1280.66 | 0.26 | 0.55 | 0.98 | 1.59 |
| 291 | 01:30 | 38 | 53.0 | 135 | 27.6 | 4.03 | 4.33 | 4.82 | 0.30 | 0.49 | 0.79 | 38.88 | 135.46 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 292 | 02:00 | 38 | 54.9 | 135 | 21.9 | 4.03 | 4.34 | 5.20 | 0.31 | 0.86 | 1.17 | 38.92 | 135.37 | 247.37 | 161.70 | 137.45 | 315.369 | 783.369 | 1584.36 | 2955.37 | 0.39 | 0.97 | 1.97 | 3.67 |
| 293 | 03:00 | 38 | 58.8 | 135 | 10.5 | 4.02 | 4.28 | 4.82 | 0.26 | 0.54 | 0.80 | 38.98 | 135.18 | 207.02 | 193.22 | 164.24 | 260.020 | 602.020 | 1138.02 | 1978.02 | 0.33 | 0.75 | 1.41 | 2.45 |
| 294 | N3 | | | | | | | | | | | | | | | | | | | | | | | |
| 295 | 19:00 | 38 | 32.8 | 135 | 40.6 | 4.01 | 4.35 | 5.01 | 0.34 | 0.66 | 1.00 | 38.55 | 135.68 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 296 | 19:30 | 38 | 30.9 | 135 | 46.8 | 4.01 | 4.30 | 4.82 | 0.29 | 0.52 | 0.81 | 38.52 | 135.78 | 231.23 | 172.99 | 147.04 | 293.229 | 707.229 | 1393.22 | 2524.22 | 0.37 | 0.88 | 1.73 | 3.13 |
| 297 | 21:00 | 38 | 25.7 | 136 | 5.7 | 3.65 | 4.15 | 4.75 | 0.50 | 0.60 | 1.10 | 38.43 | 136.10 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 298 | 21:30 | 38 | 24.1 | 136 | 12.0 | 3.63 | 4.10 | 5.10 | 0.47 | 1.00 | 1.47 | 38.40 | 136.20 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 299 | 22:00 | 38 | 22.3 | 136 | 18.4 | 3.60 | 4.09 | 5.10 | 0.49 | 1.01 | 1.50 | 38.37 | 136.31 | 392.64 | 101.88 | 86.59 | 530.640 | 1707.64 | 4466.64 | 10934.6 | 0.66 | 2.12 | 5.54 | 13.55 |
| 300 | 22:30 | 38 | 20.6 | 136 | 24.8 | 3.49 | 4.04 | 4.85 | 0.55 | 0.81 | 1.36 | 38.34 | 136.41 | 441.06 | 90.69 | 77.09 | 608.059 | 2136.06 | 6115.06 | 16478.0 | 0.76 | 2.65 | 7.58 | 20.42 |
| 301 | N2 | | | | | | | | | | | | | | | | | | | | | | | |
| 302 | 13:30 | 38 | 7.6 | 136 | 14.7 | 3.54 | 3.92 | 4.85 | 0.38 | 0.93 | 1.31 | 38.13 | 136.25 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 303 | 14:00 | 38 | 9.0 | 136 | 8.1 | 3.60 | 3.97 | 5.20 | 0.37 | 1.23 | 1.60 | 38.15 | 136.14 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 304 | 16:00 | 38 | 17.0 | 135 | 41.3 | 3.97 | 4.22 | 4.90 | 0.25 | 0.68 | 0.93 | 38.28 | 135.69 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 305 | 16:30 | 38 | 19.4 | 135 | 34.5 | 4.00 | 4.30 | 4.95 | 0.30 | 0.65 | 0.95 | 38.32 | 135.58 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 306 | 17:00 | 38 | 21.1 | 135 | 27.5 | 4.01 | 4.30 | 5.30 | 0.29 | 1.00 | 1.29 | 38.35 | 135.46 | 231.23 | 172.99 | 147.04 | 293.229 | 707.229 | 1393.22 | 2524.22 | 0.37 | 0.88 | 1.73 | 3.13 |
| 307 | L40 | | | | | | | | | | | | | | | | | | | | | | | |
| 308 | 11:30 | 38 | 52.0 | 134 | 59.0 | 4.03 | 4.56 | 5.00 | 0.53 | 0.44 | 0.97 | 38.87 | 134.98 | 424.92 | 94.14 | 80.02 | 581.920 | 1984.92 | 5512.91 | 14383.9 | 0.72 | 2.46 | 6.83 | 17.83 |
| 309 | 12:00 | 38 | 49.6 | 135 | 1.0 | 4.03 | 4.63 | 5.30 | 0.60 | 0.67 | 1.27 | 38.83 | 135.02 | 481.41 | 83.09 | 70.63 | 674.410 | 2552.40 | 7889.41 | 23061.4 | 0.84 | 3.17 | 9.78 | 28.58 |
| 310 | 12:30 | 38 | 45.0 | 135 | 5.5 | 4.03 | 4.65 | 5.35 | 0.62 | 0.70 | 1.32 | 38.75 | 135.09 | 497.55 | 80.39 | 68.33 | 701.549 | 2736.55 | 8725.54 | 26360.5 | 0.87 | 3.39 | 10.82 | 32.67 |
| 311 | 13:00 | 38 | 41.0 | 135 | 10.0 | 4.03 | 4.55 | 4.80 | 0.52 | 0.25 | 0.77 | 38.68 | 135.17 | 416.85 | 95.96 | 81.56 | 568.849 | 1912.84 | 5233.85 | 13439.8 | 0.71 | 2.37 | 6.49 | 16.66 |
| 312 | 14:00 | 38 | 36.0 | 135 | 18.0 | 4.02 | 4.52 | 4.85 | 0.50 | 0.33 | 0.83 | 38.60 | 135.30 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 313 | 16:00 | 38 | 21.0 | 135 | 30.0 | 4.02 | 4.60 | 5.35 | 0.58 | 0.75 | 1.33 | 38.35 | 135.50 | 465.27 | 85.97 | 73.08 | 647.270 | 2378.27 | 7130.27 | 20170.2 | 0.81 | 2.95 | 8.84 | 25.00 |
| 314 | 16:30 | 38 | 21.2 | 135 | 24.5 | 4.02 | 4.60 | 5.40 | 0.58 | 0.80 | 1.38 | 38.35 | 135.41 | 465.27 | 85.97 | 73.08 | 647.270 | 2378.27 | 7130.27 | 20170.2 | 0.81 | 2.95 | 8.84 | 25.00 |
| 315 | 17:00 | 38 | 21.3 | 135 | 30.0 | 4.02 | 4.54 | 5.42 | 0.52 | 0.88 | 1.40 | 38.36 | 135.50 | 416.85 | 95.96 | 81.56 | 568.849 | 1912.84 | 5233.85 | 13439.8 | 0.71 | 2.37 | 6.49 | 16.66 |
| 316 | 17:30 | 38 | 18.0 | 135 | 29.5 | 4.00 | 4.45 | 5.11 | 0.45 | 0.66 | 1.11 | 38.30 | 135.49 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 317 | 18:00 | 38 | 14.5 | 135 | 31.5 | 3.99 | 4.50 | 4.98 | 0.51 | 0.48 | 0.99 | 38.24 | 135.53 | 408.78 | 97.85 | 83.17 | 555.780 | 1841.78 | 4965.77 | 12549.7 | 0.69 | 2.29 | 6.16 | 15.55 |
| 318 | 19:00 | 38 | 7.5 | 135 | 40.0 | 3.89 | 4.19 | 4.80 | 0.30 | 0.61 | 0.91 | 38.13 | 135.67 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 319 | 19:30 | 38 | 4.0 | 135 | 42.0 | 3.74 | 4.14 | 4.43 | 0.40 | 0.29 | 0.69 | 38.07 | 135.70 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 320 | 20:00 | 38 | 0.0 | 135 | 47.0 | 3.72 | 4.29 | 5.00 | 0.57 | 0.71 | 1.28 | 38.00 | 135.78 | 457.20 | 87.49 | 74.37 | 634.200 | 2295.19 | 6775.20 | 18859.1 | 0.79 | 2.85 | 8.40 | 23.37 |
| 321 | 20:30 | 37 | 56.0 | 135 | 50.0 | 3.60 | 4.36 | 5.15 | 0.76 | 0.79 | 1.55 | 37.93 | 135.83 | 610.54 | 65.52 | 55.69 | 901.539 | 4344.54 | 17295.5 | 66016.5 | 1.12 | 5.39 | 21.43 | 81.80 |
| 322 | L39 | | | | | | | | | | | | | | | | | | | | | | | |
| 323 | 05:30 | 37 | 35.0 | 135 | 45.5 | 3.72 | 4.13 | 4.40 | 0.41 | 0.27 | 0.68 | 37.58 | 135.76 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 324 | 06:00 | 37 | 39.5 | 135 | 41.0 | 3.82 | 4.30 | 5.40 | 0.48 | 1.10 | 1.58 | 37.66 | 135.68 | 384.57 | 104.01 | 88.41 | 517.570 | 1642.57 | 4233.56 | 10202.5 | 0.64 | 2.04 | 5.25 | 12.65 |
| 325 | 23:00 | 37 | 40.5 | 135 | 40.0 | 3.82 | 4.31 | 5.40 | 0.49 | 1.09 | 1.58 | 37.68 | 135.67 | 392.64 | 101.88 | 86.59 | 530.640 | 1707.64 | 4466.64 | 10934.6 | 0.66 | 2.12 | 5.54 | 13.55 |
| 326 | 23:30 | 37 | 47.0 | 135 | 38.0 | 3.86 | 4.30 | 5.40 | 0.44 | 1.10 | 1.54 | 37.78 | 135.63 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 327 | 00:00 | 37 | 50.0 | 135 | 36.0 | 3.90 | 4.26 | 5.23 | 0.36 | 0.97 | 1.33 | 37.83 | 135.60 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 328 | 00:30 | 37 | 55.5 | 135 | 32.0 | 3.92 | 4.25 | 5.40 | 0.33 | 1.15 | 1.48 | 37.93 | 135.53 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |
| 329 | 01:00 | 37 | 59.0 | 135 | 30.0 | 3.95 | 4.20 | 4.80 | 0.25 | 0.60 | 0.85 | 37.98 | 135.50 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 330 | 02:30 | 38 | 10.2 | 135 | 27.5 | 4.01 | 4.40 | 4.75 | 0.39 | 0.35 | 0.74 | 38.17 | 135.46 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 331 | 04:00 | 38 | 24.5 | 135 | 3.7 | 4.02 | 4.70 | 5.48 | 0.68 | 0.78 | 1.46 | 38.41 | 135.06 | 545.98 | 73.26 | 62.27 | 784.979 | 3350.97 | 11742.9 | 39186.9 | 0.98 | 4.16 | 14.55 | 48.56 |
| 332 | 04:30 | 38 | 29.0 | 135 | 0.0 | 4.03 | 4.70 | 5.55 | 0.67 | 0.85 | 1.52 | 38.48 | 135.00 | 537.91 | 74.36 | 63.21 | 770.909 | 3240.90 | 11177.9 | 36680.9 | 0.96 | 4.02 | 13.85 | 45.45 |
| 333 | 05:00 | 38 | 31.5 | 134 | 56.0 | 4.03 | 4.60 | 5.30 | 0.57 | 0.70 | 1.27 | 38.53 | 134.93 | 457.20 | 87.49 | 74.37 | 634.200 | 2295.19 | 6775.20 | 18859.1 | 0.79 | 2.85 | 8.40 | 23.37 |
| 334 | 05:30 | 38 | 37.5 | 134 | 51.5 | 4.03 | 4.58 | 5.05 | 0.55 | 0.47 | 1.02 | 38.63 | 134.86 | 441.06 | 90.69 | 77.09 | 608.059 | 2136.06 | 6115.06 | 16478.0 | 0.76 | 2.65 | 7.58 | 20.42 |
| 335 | 06:00 | 38 | 41.0 | 134 | 49.5 | 4.03 | 4.60 | 4.90 | 0.57 | 0.30 | 0.87 | 38.68 | 134.83 | 457.20 | 87.49 | 74.37 | 634.200 | 2295.19 | 6775.20 | 18859.1 | 0.79 | 2.85 | 8.40 | 23.37 |
| 336 | L38 | | | | | | | | | | | | | | | | | | | | | | | |
| 337 | 03:00 | 38 | 30.0 | 134 | 34.7 | 4.03 | 4.51 | 4.96 | 0.48 | 0.45 | 0.93 | 38.50 | 134.58 | 384.57 | 104.01 | 88.41 | 517.570 | 1642.57 | 4233.56 | 10202.5 | 0.64 | 2.04 | 5.25 | 12.65 |
| 338 | 03:30 | 38 | 26.0 | 134 | 38.8 | 4.04 | 4.65 | 5.16 | 0.61 | 0.51 | 1.12 | 38.43 | 134.65 | 489.48 | 81.72 | 69.46 | 687.479 | 2642.47 | 8298.48 | 24658.4 | 0.86 | 3.28 | 10.29 | 30.56 |
| 339 | 04:00 | 38 | 20.0 | 134 | 40.0 | 4.04 | 4.66 | 5.02 | 0.62 | 0.36 | 0.98 | 38.33 | 134.67 | 497.55 | 80.39 | 68.33 | 701.549 | 2736.55 | 8725.54 | 26360.5 | 0.87 | 3.39 | 10.82 | 32.67 |
| 340 | 04:30 | 38 | 17.0 | 134 | 44.5 | 4.04 | 4.74 | 5.45 | 0.70 | 0.71 | 1.41 | 38.28 | 134.74 | 562.12 | 71.16 | 60.49 | 814.119 | 3579.12 | 12943.1 | 44654.1 | 1.01 | 4.44 | 16.04 | 55.33 |
| 341 | 05:00 | 38 | 12.0 | 134 | 50.0 | 4.03 | 4.60 | 5.23 | 0.57 | 0.63 | 1.20 | 38.20 | 134.83 | 457.20 | 87.49 | 74.37 | 634.200 | 2295.19 | 6775.20 | 18859.1 | 0.79 | 2.85 | 8.40 | 23.37 |
| 342 | 05:30 | 38 | 8.5 | 134 | 54.0 | 4.00 | 4.50 | 4.89 | 0.50 | 0.39 | 0.89 | 38.14 | 134.90 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 343 | 06:00 | 38 | 4.6 | 134 | 58.0 | 4.00 | 4.55 | 4.77 | 0.55 | 0.22 | 0.77 | 38.08 | 134.97 | 441.06 | 90.69 | 77.09 | 608.059 | 2136.06 | 6115.06 | 16478.0 | 0.76 | 2.65 | 7.58 | 20.42 |
| 344 | 08:00 | 37 | 47.5 | 135 | 11.0 | 3.99 | 4.34 | 4.55 | 0.35 | 0.21 | 0.56 | 37.79 | 135.18 | 279.65 | 143.04 | 121.58 | 360.649 | 949.650 | 2029.65 | 4010.64 | 0.45 | 1.18 | 2.52 | 4.97 |
| 345 | 08:30 | 37 | 44.0 | 135 | 16.0 | 3.99 | 4.43 | 5.20 | 0.44 | 0.77 | 1.21 | 37.73 | 135.27 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 346 | 09:00 | 37 | 40.0 | 135 | 19.5 | 3.95 | 4.41 | 5.15 | 0.46 | 0.74 | 1.20 | 37.67 | 135.33 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 347 | 10:30 | 37 | 28.0 | 135 | 30.5 | 3.86 | 4.48 | 5.28 | 0.62 | 0.80 | 1.42 | 37.47 | 135.51 | 497.55 | 80.39 | 68.33 | 701.549 | 2736.55 | 8725.54 | 26360.5 | 0.87 | 3.39 | 10.82 | 32.67 |
| 348 | L37 | | | | | | | | | | | | | | | | | | | | | | | |
| 349 | 20:30 | 37 | 30.0 | 135 | 5.0 | 3.95 | 4.31 | 4.90 | 0.36 | 0.59 | 0.95 | 37.50 | 135.08 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 350 | 21:00 | 37 | 34.0 | 135 | 0.0 | 3.98 | 4.31 | 5.09 | 0.33 | 0.78 | 1.11 | 37.57 | 135.00 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |
| 351 | 21:30 | 37 | 39.6 | 134 | 54.0 | 3.99 | 4.34 | 5.25 | 0.35 | 0.91 | 1.26 | 37.66 | 134.90 | 279.65 | 143.04 | 121.58 | 360.649 | 949.650 | 2029.65 | 4010.64 | 0.45 | 1.18 | 2.52 | 4.97 |
| 352 | 22:30 | 37 | 48.0 | 134 | 48.0 | 4.00 | 4.41 | 5.47 | 0.41 | 1.06 | 1.47 | 37.80 | 134.80 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 353 | 23:00 | 37 | 50.8 | 134 | 42.5 | 4.00 | 4.35 | 5.05 | 0.35 | 0.70 | 1.05 | 37.85 | 134.71 | 279.65 | 143.04 | 121.58 | 360.649 | 949.650 | 2029.65 | 4010.64 | 0.45 | 1.18 | 2.52 | 4.97 |
| 354 | L36 | | | | | | | | | | | | | | | | | | | | | | | |
| 355 | 18:30 | 37 | 40.5 | 134 | 29.5 | 3.80 | 4.05 | 4.45 | 0.25 | 0.40 | 0.65 | 37.68 | 134.49 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 356 | 19:00 | 37 | 37.0 | 134 | 32.5 | 3.86 | 4.20 | 4.60 | 0.34 | 0.40 | 0.74 | 37.62 | 134.54 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 357 | 19:30 | 37 | 30.5 | 134 | 38.0 | 3.84 | 4.21 | 5.00 | 0.37 | 0.79 | 1.16 | 37.51 | 134.63 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 358 | 20:00 | 37 | 28.5 | 134 | 40.0 | 3.83 | 4.16 | 4.65 | 0.33 | 0.49 | 0.82 | 37.48 | 134.67 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |
| 359 | 20:30 | 37 | 22.5 | 134 | 47.0 | 3.64 | 3.87 | 4.68 | 0.23 | 0.81 | 1.04 | 37.38 | 134.78 | 182.81 | 218.81 | 185.99 | 226.809 | 504.809 | 917.809 | 1531.81 | 0.28 | 0.63 | 1.14 | 1.90 |
| 360 | L35 | | | | | | | | | | | | | | | | | | | | | | | |
| 361 | 19:30 | 37 | 19.0 | 134 | 27.0 | 3.56 | 4.00 | 4.90 | 0.44 | 0.90 | 1.34 | 37.32 | 134.45 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 362 | 20:00 | 37 | 21.0 | 134 | 22.5 | 3.55 | 3.99 | 4.77 | 0.44 | 0.78 | 1.22 | 37.35 | 134.38 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 363 | L34 | | | | | | | | | | | | | | | | | | | | | | | |
| 364 | 01:00 | 38 | 34.0 | 132 | 41.5 | 3.74 | 4.65 | 5.10 | 0.91 | 0.45 | 1.36 | 38.57 | 132.69 | 731.60 | 54.67 | 46.47 | 1135.59 | 6897.60 | 35094.6 | 173102. | 1.41 | 8.55 | 43.49 | 214.49 |
| 365 | 01:30 | 38 | 38.0 | 132 | 47.0 | 3.77 | 4.68 | 5.47 | 0.91 | 0.79 | 1.70 | 38.63 | 132.78 | 731.60 | 54.67 | 46.47 | 1135.59 | 6897.60 | 35094.6 | 173102. | 1.41 | 8.55 | 43.49 | 214.49 |
| 366 | 02:00 | 38 | 40.5 | 132 | 51.0 | 3.87 | 4.65 | 5.50 | 0.78 | 0.85 | 1.63 | 38.68 | 132.85 | 626.68 | 63.83 | 54.25 | 931.679 | 4628.68 | 19036.6 | 75178.6 | 1.16 | 5.74 | 23.59 | 93.16 |
| 367 | 02:30 | 38 | 36.5 | 132 | 58.0 | 3.80 | 4.60 | 5.36 | 0.80 | 0.76 | 1.56 | 38.61 | 132.97 | 642.82 | 62.23 | 52.89 | 961.820 | 4928.81 | 20933.8 | 85518.8 | 1.20 | 6.11 | 25.94 | 105.97 |
| 368 | 03:00 | 38 | 31.5 | 133 | 1.5 | 3.78 | 4.59 | 5.78 | 0.81 | 1.19 | 2.00 | 38.53 | 133.03 | 650.89 | 61.45 | 52.24 | 976.890 | 5082.89 | 21942.8 | 91164.8 | 1.21 | 6.30 | 27.19 | 112.96 |
| 369 | 03:30 | 38 | 29.5 | 133 | 5.5 | 3.71 | 4.50 | 5.50 | 0.79 | 1.00 | 1.79 | 38.49 | 133.09 | 634.75 | 63.02 | 53.56 | 946.75 | 4776.75 | 19965.7 | 80187.7 | 1.18 | 5.92 | 24.74 | 99.36 |
| 370 | 04:00 | 38 | 26.0 | 133 | 10.0 | 3.65 | 4.41 | 5.06 | 0.76 | 0.65 | 1.41 | 38.43 | 133.17 | 610.54 | 65.52 | 55.69 | 901.539 | 4344.54 | 17295.5 | 66016.5 | 1.12 | 5.39 | 21.43 | 81.80 |
| 371 | 15:30 | 37 | 9.0 | 134 | 15.0 | 4.08 | 4.50 | 5.38 | 0.42 | 0.88 | 1.30 | 37.15 | 134.25 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 372 | 16:00 | 37 | 4.5 | 134 | 19.0 | 4.07 | 4.53 | 5.40 | 0.46 | 0.87 | 1.33 | 37.08 | 134.32 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 373 | L33 | | | | | | | | | | | | | | | | | | | | | | | |
| 374 | 13:00 | 36 | 54.0 | 134 | 6.0 | 2.46 | 2.90 | 3.76 | 0.44 | 0.86 | 1.30 | 36.90 | 134.10 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 375 | 13:30 | 36 | 59.0 | 134 | 0.0 | 2.49 | 2.89 | 4.00 | 0.40 | 1.11 | 1.51 | 36.98 | 134.00 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 376 | 14:00 | 37 | 1.5 | 133 | 57.5 | 2.46 | 2.89 | 3.45 | 0.43 | 0.56 | 0.99 | 37.03 | 133.96 | 344.22 | 116.21 | 98.78 | 456.220 | 1345.21 | 3221.21 | 7181.22 | 0.57 | 1.67 | 3.99 | 8.90 |
| 377 | 14:30 | 37 | 6.0 | 133 | 53.5 | 2.38 | 2.62 | 2.90 | 0.24 | 0.28 | 0.52 | 37.10 | 133.89 | 190.88 | 209.56 | 178.13 | 237.880 | 535.880 | 987.880 | 1670.88 | 0.30 | 0.67 | 1.23 | 2.07 |
| 378 | 22:00 | 38 | 9.7 | 133 | 0.0 | 3.56 | 4.40 | 5.00 | 0.84 | 0.60 | 1.44 | 38.16 | 133.00 | 675.11 | 59.25 | 50.36 | 1023.10 | 5578.10 | 25293.1 | 110632. | 1.27 | 6.92 | 31.34 | 137.09 |
| 379 | 22:30 | 38 | 13.0 | 132 | 57.0 | 3.62 | 4.45 | 5.15 | 0.83 | 0.70 | 1.53 | 38.22 | 132.95 | 667.04 | 59.97 | 50.97 | 1008.03 | 5409.04 | 24128.0 | 103740. | 1.25 | 6.71 | 29.90 | 128.55 |
| 380 | 23:00 | 38 | 18.0 | 132 | 51.5 | 3.72 | 4.56 | 5.30 | 0.84 | 0.74 | 1.58 | 38.30 | 132.86 | 675.11 | 59.25 | 50.36 | 1023.10 | 5578.10 | 25293.1 | 110632. | 1.27 | 6.92 | 31.34 | 137.09 |
| 381 | 23:30 | 38 | 21.5 | 132 | 50.0 | 3.73 | 4.70 | 5.20 | 0.97 | 0.50 | 1.47 | 38.36 | 132.83 | 780.02 | 51.28 | 43.59 | 1235.02 | 8239.01 | 46300.0 | 253034. | 1.53 | 10.21 | 57.37 | 313.53 |
| 382 | 00:00 | 38 | 25.5 | 132 | 45.0 | 3.73 | 4.64 | 5.18 | 0.91 | 0.54 | 1.45 | 38.43 | 132.75 | 731.60 | 54.67 | 46.47 | 1135.59 | 6897.60 | 35094.6 | 173102. | 1.41 | 8.55 | 43.49 | 214.49 |
| 383 | L32 | | | | | | | | | | | | | | | | | | | | | | | |
| 384 | 04:00 | 38 | 6.0 | 132 | 40.5 | 3.58 | 4.37 | 4.62 | 0.79 | 0.25 | 1.04 | 38.10 | 132.68 | 634.75 | 63.02 | 53.56 | 946.75 | 4776.75 | 19965.7 | 80187.7 | 1.18 | 5.92 | 24.74 | 99.36 |
| 385 | 04:30 | 38 | 0.2 | 132 | 46.0 | 3.52 | 4.38 | 5.18 | 0.86 | 0.80 | 1.66 | 38.00 | 132.77 | 691.25 | 57.87 | 49.19 | 1055.25 | 5929.25 | 27774.2 | 125672. | 1.31 | 7.35 | 34.42 | 155.72 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 386 | 05:00 | 37 | 57.5 | 132 | 48.0 | 3.44 | 4.35 | 4.50 | 0.91 | 0.15 | 1.06 | 37.96 | 132.80 | 731.60 | 54.67 | 46.47 | 1135.59 | 6897.60 | 35094.6 | 173102. | 1.41 | 8.55 | 43.49 | 214.49 |
| 387 | L31 | | | | | | | | | | | | | | | | | | | | | | | |
| 388 | 23:30 | 37 | 56.0 | 132 | 23.0 | 3.49 | 4.34 | 5.00 | 0.85 | 0.66 | 1.51 | 37.93 | 132.38 | 683.18 | 58.55 | 49.77 | 1039.17 | 5751.18 | 26502.1 | 117891. | 1.29 | 7.13 | 32.84 | 146.08 |
| 389 | 00:00 | 38 | 0.0 | 132 | 20.0 | 3.52 | 4.40 | 5.25 | 0.88 | 0.85 | 1.73 | 38.00 | 132.33 | 707.39 | 56.55 | 48.06 | 1086.39 | 6302.39 | 30516.3 | 142954. | 1.35 | 7.81 | 37.82 | 177.14 |
| 390 | 00:30 | 38 | 5.0 | 132 | 17.0 | 3.65 | 4.33 | 5.20 | 0.68 | 0.87 | 1.55 | 38.08 | 132.28 | 545.98 | 73.26 | 62.27 | 784.979 | 3350.97 | 11742.9 | 39186.9 | 0.98 | 4.16 | 14.55 | 48.56 |
| 391 | 01:00 | 38 | 9.5 | 132 | 11.0 | 3.64 | 4.34 | 4.65 | 0.70 | 0.31 | 1.01 | 38.16 | 132.18 | 562.12 | 71.16 | 60.49 | 814.119 | 3579.12 | 12943.1 | 44654.1 | 1.01 | 4.44 | 16.04 | 55.33 |
| 392 | 01:30 | 38 | 12.0 | 132 | 18.0 | 3.69 | 4.43 | 5.40 | 0.74 | 0.97 | 1.71 | 38.20 | 132.30 | 594.40 | 67.29 | 57.20 | 872.400 | 4075.39 | 15712.4 | 57984.3 | 1.08 | 5.05 | 19.47 | 71.85 |
| 393 | 02:00 | 38 | 17.0 | 132 | 24.0 | 3.71 | 4.45 | 5.15 | 0.74 | 0.70 | 1.44 | 38.28 | 132.40 | 594.40 | 67.29 | 57.20 | 872.400 | 4075.39 | 15712.4 | 57984.3 | 1.08 | 5.05 | 19.47 | 71.85 |
| 394 | KT-87-6 MC-1 | | | | | | | | | | | | | | | | | | | | | | | |
| 395 | 23 | 43 | 58.6 | 138 | 36.7 | 4.31 | 4.76 | 5.50 | 0.45 | 0.74 | 1.19 | 43.98 | 138.61 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 396 | 100 | 43 | 58.9 | 138 | 35.2 | 4.30 | 4.72 | 5.48 | 0.42 | 0.76 | 1.18 | 43.98 | 138.59 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 397 | 200 | 43 | 59.8 | 138 | 39.3 | 4.36 | 4.80 | 5.40 | 0.44 | 0.60 | 1.04 | 44.00 | 138.66 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 398 | 300 | 44 | 0.0 | 138 | 43.7 | 4.37 | 4.75 | 5.10 | 0.38 | 0.35 | 0.73 | 44.00 | 138.73 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 399 | 400 | 43 | 59.9 | 138 | 47.4 | 4.34 | 4.80 | 5.00 | 0.46 | 0.20 | 0.66 | 44.00 | 138.79 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 400 | 500 | 43 | 59.8 | 138 | 51.0 | 4.48 | 4.89 | 5.15 | 0.41 | 0.26 | 0.67 | 44.00 | 138.85 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 401 | 600 | 43 | 59.9 | 138 | 54.9 | 4.52 | 5.07 | 5.30 | 0.55 | 0.23 | 0.78 | 44.00 | 138.92 | 441.06 | 90.69 | 77.09 | 608.059 | 2136.06 | 6115.06 | 16478.0 | 0.76 | 2.65 | 7.58 | 20.42 |
| 402 | 700 | 44 | 0.1 | 138 | 59.7 | 4.50 | 4.94 | 5.40 | 0.44 | 0.46 | 0.90 | 44.00 | 139.00 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 403 | 800 | 44 | 0.9 | 139 | 1.9 | 4.49 | 4.99 | 5.60 | 0.50 | 0.61 | 1.11 | 44.02 | 139.03 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 404 | 900 | 44 | 1.1 | 139 | 5.5 | 4.35 | 4.93 | 5.60 | 0.58 | 0.67 | 1.25 | 44.02 | 139.09 | 465.27 | 85.97 | 73.08 | 647.270 | 2378.27 | 7130.27 | 20170.2 | 0.81 | 2.95 | 8.84 | 25.00 |
| 405 | 1000 | 44 | 0.2 | 139 | 8.5 | 4.01 | 4.25 | 5.60 | 0.24 | 1.35 | 1.59 | 44.00 | 139.14 | 190.88 | 209.56 | 178.13 | 237.880 | 535.880 | 987.880 | 1670.88 | 0.30 | 0.67 | 1.23 | 2.07 |
| 406 | 1200 | 44 | 0.1 | 139 | 15.4 | 1.62 | 2.15 | 3.10 | 0.53 | 0.95 | 1.48 | 44.00 | 139.26 | 424.92 | 94.14 | 80.02 | 581.920 | 1984.92 | 5512.91 | 14383.9 | 0.72 | 2.46 | 6.83 | 17.83 |
| 407 | 1300 | 43 | 59.9 | 139 | 19.2 | 2.10 | 2.64 | 3.12 | 0.54 | 0.48 | 1.02 | 44.00 | 139.32 | 432.99 | 92.38 | 78.52 | 594.989 | 2058.98 | 5807.99 | 15401.9 | 0.74 | 2.55 | 7.20 | 19.09 |
| 408 | 1400 | 43 | 59.9 | 139 | 23.1 | 2.32 | 2.74 | 3.30 | 0.42 | 0.56 | 0.98 | 44.00 | 139.39 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 409 | 1500 | 43 | 59.9 | 139 | 27.2 | 1.84 | 2.10 | 2.48 | 0.26 | 0.38 | 0.64 | 44.00 | 139.45 | 207.02 | 193.22 | 164.24 | 260.020 | 602.020 | 1138.02 | 1978.02 | 0.33 | 0.75 | 1.41 | 2.45 |
| 410 | 1600 | 44 | 0.1 | 139 | 30.9 | 1.80 | 2.05 | 2.45 | 0.25 | 0.40 | 0.65 | 44.00 | 139.52 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 411 | 1700 | 44 | 0.3 | 139 | 34.7 | 2.20 | 2.80 | 3.84 | 0.60 | 1.04 | 1.64 | 44.01 | 139.58 | 481.41 | 83.09 | 70.63 | 674.410 | 2552.40 | 7889.41 | 23061.4 | 0.84 | 3.17 | 9.78 | 28.58 |
| 412 | 1800 | 44 | 0.0 | 139 | 38.6 | 2.10 | 2.72 | 4.00 | 0.62 | 1.28 | 1.90 | 44.00 | 139.64 | 497.55 | 80.39 | 68.33 | 701.549 | 2736.55 | 8725.54 | 26360.5 | 0.87 | 3.39 | 10.82 | 32.67 |
| 413 | 1900 | 44 | 1.9 | 139 | 40.3 | 2.00 | 2.58 | 3.45 | 0.58 | 0.87 | 1.45 | 44.03 | 139.67 | 465.27 | 85.97 | 73.08 | 647.270 | 2378.27 | 7130.27 | 20170.2 | 0.81 | 2.95 | 8.84 | 25.00 |
| 414 | 2000 | 44 | 5.2 | 139 | 40.2 | 1.95 | 2.40 | 2.80 | 0.45 | 0.40 | 0.85 | 44.09 | 139.67 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 415 | 2200 | 44 | 8.0 | 139 | 35.8 | 1.98 | 2.58 | 3.00 | 0.60 | 0.42 | 1.02 | 44.13 | 139.60 | 481.41 | 83.09 | 70.63 | 674.410 | 2552.40 | 7889.41 | 23061.4 | 0.84 | 3.17 | 9.78 | 28.58 |
| 416 | 2300 | 44 | 8.1 | 139 | 32.1 | 2.00 | 2.60 | 3.30 | 0.60 | 0.70 | 1.30 | 44.14 | 139.54 | 481.41 | 83.09 | 70.63 | 674.410 | 2552.40 | 7889.41 | 23061.4 | 0.84 | 3.17 | 9.78 | 28.58 |
| 417 | 2400 | 44 | 8.6 | 139 | 27.7 | 1.53 | 1.93 | 2.40 | 0.40 | 0.47 | 0.87 | 44.14 | 139.46 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 418 | KH-86-2 Line 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 419 | 1 | 42 | 50.0 | 138 | 56.3 | 4.86 | 5.20 | 5.70 | 0.34 | 0.50 | 0.84 | 42.83 | 138.94 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 420 | 100 | 42 | 50.0 | 139 | 0.1 | 4.87 | 5.15 | 5.65 | 0.28 | 0.50 | 0.78 | 42.83 | 139.00 | 223.16 | 179.25 | 152.36 | 281.160 | 671.160 | 1303.16 | 2330.15 | 0.35 | 0.84 | 1.62 | 2.89 |
| 421 | 200 | 42 | 50.1 | 139 | 3.9 | 4.88 | 5.15 | 5.55 | 0.27 | 0.40 | 0.67 | 42.84 | 139.07 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 422 | 300 | 42 | 49.9 | 139 | 7.2 | 4.86 | 5.16 | 5.55 | 0.30 | 0.39 | 0.69 | 42.83 | 139.12 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 423 | 400 | 42 | 50.2 | 139 | 10.9 | 4.68 | 5.00 | 5.30 | 0.32 | 0.30 | 0.62 | 42.84 | 139.18 | 255.44 | 156.59 | 133.10 | 326.440 | 823.440 | 1688.43 | 3193.43 | 0.41 | 1.02 | 2.10 | 3.96 |
| 424 | 500 | 42 | 50.3 | 139 | 13.9 | 4.46 | 4.95 | 5.44 | 0.49 | 0.49 | 0.98 | 42.84 | 139.23 | 392.64 | 101.88 | 86.59 | 530.640 | 1707.64 | 4466.64 | 10934.6 | 0.66 | 2.12 | 5.54 | 13.55 |
| 425 | 600 | 42 | 50.3 | 139 | 17.3 | 4.14 | 4.45 | 4.94 | 0.31 | 0.49 | 0.80 | 42.84 | 139.29 | 247.37 | 161.70 | 137.45 | 315.369 | 783.369 | 1584.36 | 2955.37 | 0.39 | 0.97 | 1.97 | 3.67 |
| 426 | 700 | 42 | 50.3 | 139 | 20.9 | 3.41 | 3.72 | 4.30 | 0.31 | 0.58 | 0.89 | 42.84 | 139.35 | 247.37 | 161.70 | 137.45 | 315.369 | 783.369 | 1584.36 | 2955.37 | 0.39 | 0.97 | 1.97 | 3.67 |
| 427 | 800 | 42 | 50.3 | 139 | 24.5 | 3.32 | 3.65 | 3.97 | 0.33 | 0.32 | 0.65 | 42.84 | 139.41 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |
| 428 | KH-86-2 Line 6 | | | | | | | | | | | | | | | | | | | | | | | |
| 429 | 2200 | 43 | 0.8 | 139 | 22.5 | 2.90 | 3.35 | 4.00 | 0.45 | 0.65 | 1.10 | 43.01 | 139.38 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 430 | 2300 | 43 | 0.8 | 139 | 18.0 | 3.53 | 3.98 | 4.55 | 0.45 | 0.57 | 1.02 | 43.01 | 139.30 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 431 | 2400 | 43 | 0.7 | 139 | 13.8 | 4.40 | 4.79 | 5.35 | 0.39 | 0.56 | 0.95 | 43.01 | 139.23 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 432 | 2500 | 43 | 0.5 | 139 | 9.7 | 4.75 | 5.05 | 5.50 | 0.30 | 0.45 | 0.75 | 43.01 | 139.16 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 433 | 2600 | 43 | 0.5 | 139 | 5.3 | 4.78 | 5.19 | 5.80 | 0.41 | 0.61 | 1.02 | 43.01 | 139.09 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 434 | 2700 | 43 | 0.5 | 139 | 1.1 | 4.76 | 5.14 | 5.95 | 0.38 | 0.81 | 1.19 | 43.01 | 139.02 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 435 | KT-89-15 @1 | | | | | | | | | | | | | | | | | | | | | | | |
| 436 | 600 | 40 | 6.2 | 138 | 2.6 | 3.42 | 3.90 | 4.00 | 0.48 | 0.10 | 0.58 | 40.10 | 138.04 | 384.57 | 104.01 | 88.41 | 517.570 | 1642.57 | 4233.56 | 10202.5 | 0.64 | 2.04 | 5.25 | 12.65 |
| 437 | 700 | 40 | 7.7 | 138 | 5.6 | 3.63 | 4.10 | 4.20 | 0.47 | 0.10 | 0.57 | 40.13 | 138.09 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 438 | 850 | 40 | 10.0 | 138 | 10.1 | 3.89 | 4.29 | 4.45 | 0.40 | 0.16 | 0.56 | 40.17 | 138.17 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 439 | 950 | 40 | 11.6 | 138 | 12.9 | 3.86 | 4.16 | 4.35 | 0.30 | 0.19 | 0.49 | 40.19 | 138.22 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 440 | 1050 | 40 | 12.9 | 138 | 15.9 | 3.74 | 4.15 | 4.40 | 0.41 | 0.25 | 0.66 | 40.22 | 138.27 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 441 | KT-89-15 @2 | | | | | | | | | | | | | | | | | | | | | | | |
| 442 | 1 | 40 | 13.8 | 138 | 17.9 | 3.63 | 4.05 | 4.30 | 0.42 | 0.25 | 0.67 | 40.23 | 138.30 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 443 | 100 | 40 | 14.2 | 138 | 18.0 | 3.66 | 4.04 | 4.27 | 0.38 | 0.23 | 0.61 | 40.24 | 138.30 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 444 | 200 | 40 | 13.7 | 138 | 17.3 | 3.68 | 4.08 | 4.38 | 0.40 | 0.30 | 0.70 | 40.23 | 138.29 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 445 | 300 | 40 | 15.0 | 138 | 20.5 | 3.50 | 3.80 | 4.10 | 0.30 | 0.30 | 0.60 | 40.25 | 138.34 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 446 | 400 | 40 | 16.3 | 138 | 23.8 | 3.44 | 3.87 | 4.10 | 0.43 | 0.23 | 0.66 | 40.27 | 138.40 | 344.22 | 116.21 | 98.78 | 456.220 | 1345.21 | 3221.21 | 7181.22 | 0.57 | 1.67 | 3.99 | 8.90 |
| 447 | 450 | 40 | 17.0 | 138 | 25.3 | 3.42 | 3.88 | 4.12 | 0.46 | 0.24 | 0.70 | 40.28 | 138.42 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 448 | KT-89-15 @3 | | | | | | | | | | | | | | | | | | | | | | | |
| 449 | 1 | 40 | 19.1 | 138 | 29.8 | 3.36 | 3.80 | 4.00 | 0.44 | 0.20 | 0.64 | 40.32 | 138.50 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 450 | 100 | 40 | 20.3 | 138 | 32.9 | 3.43 | 3.73 | 4.00 | 0.30 | 0.27 | 0.57 | 40.34 | 138.55 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 451 | 200 | 40 | 21.5 | 138 | 36.3 | 3.56 | 3.83 | 4.05 | 0.27 | 0.22 | 0.49 | 40.36 | 138.61 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 452 | 300 | 40 | 22.7 | 138 | 39.2 | 3.96 | 4.30 | 4.50 | 0.34 | 0.20 | 0.54 | 40.38 | 138.65 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 453 | KT-89-15 @4 | | | | | | | | | | | | | | | | | | | | | | | |
| 454 | 50 | 39 | 49.1 | 138 | 26.9 | 3.58 | 4.06 | 4.35 | 0.48 | 0.29 | 0.77 | 39.82 | 138.45 | 384.57 | 104.01 | 88.41 | 517.570 | 1642.57 | 4233.56 | 10202.5 | 0.64 | 2.04 | 5.25 | 12.65 |
| 455 | 100 | 39 | 50.0 | 138 | 26.1 | 3.54 | 4.06 | 4.40 | 0.52 | 0.34 | 0.86 | 39.83 | 138.44 | 416.85 | 95.96 | 81.56 | 568.849 | 1912.84 | 5233.85 | 13439.8 | 0.71 | 2.37 | 6.49 | 16.66 |
| 456 | 200 | 39 | 52.4 | 138 | 25.0 | 3.53 | 4.03 | 4.41 | 0.50 | 0.38 | 0.88 | 39.87 | 138.42 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 457 | 300 | 39 | 54.8 | 138 | 23.7 | 3.52 | 3.98 | 4.30 | 0.46 | 0.32 | 0.78 | 39.91 | 138.40 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 458 | 400 | 39 | 57.2 | 138 | 22.3 | 3.50 | 3.90 | 4.05 | 0.40 | 0.15 | 0.55 | 39.95 | 138.37 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 459 | 500 | 39 | 59.4 | 138 | 20.9 | 3.32 | 3.71 | 3.94 | 0.39 | 0.23 | 0.62 | 39.99 | 138.35 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 460 | 600 | 40 | 1.5 | 138 | 19.6 | 3.20 | 3.60 | 3.88 | 0.40 | 0.28 | 0.68 | 40.03 | 138.33 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 461 | 700 | 40 | 3.7 | 138 | 18.1 | 3.18 | 3.50 | 3.63 | 0.32 | 0.13 | 0.45 | 40.06 | 138.30 | 255.44 | 156.59 | 133.10 | 326.440 | 823.440 | 1688.43 | 3193.43 | 0.41 | 1.02 | 2.10 | 3.96 |
| 462 | 800 | 40 | 5.8 | 138 | 16.7 | 3.53 | 3.95 | 4.17 | 0.42 | 0.22 | 0.64 | 40.10 | 138.28 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 463 | 900 | 40 | 7.8 | 138 | 15.0 | 3.62 | 4.05 | 4.28 | 0.43 | 0.23 | 0.66 | 40.13 | 138.25 | 344.21 | 116.21 | 98.78 | 456.209 | 1345.20 | 3221.20 | 7181.20 | 0.57 | 1.67 | 3.99 | 8.90 |
| 464 | 1000 | 40 | 10.3 | 138 | 14.1 | 3.78 | 4.18 | 4.44 | 0.40 | 0.26 | 0.66 | 40.17 | 138.24 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 465 | 1100 | 40 | 12.8 | 138 | 13.0 | 3.87 | 4.26 | 4.50 | 0.39 | 0.24 | 0.63 | 40.21 | 138.22 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 466 | 1200 | 40 | 15.5 | 138 | 11.8 | 3.95 | 4.30 | 4.55 | 0.35 | 0.25 | 0.60 | 40.26 | 138.20 | 279.65 | 143.04 | 121.58 | 360.649 | 949.650 | 2029.65 | 4010.64 | 0.45 | 1.18 | 2.52 | 4.97 |
| 467 | 1300 | 40 | 18.1 | 138 | 10.6 | 4.02 | 4.44 | 4.69 | 0.42 | 0.25 | 0.67 | 40.30 | 138.18 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 468 | 1400 | 40 | 20.7 | 138 | 9.0 | 4.15 | 4.55 | 4.79 | 0.40 | 0.24 | 0.64 | 40.35 | 138.15 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 469 | 1500 | 40 | 23.2 | 138 | 7.4 | 4.28 | 4.70 | 4.90 | 0.42 | 0.20 | 0.62 | 40.39 | 138.12 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 470 | 1600 | 40 | 25.7 | 138 | 5.9 | 4.31 | 4.74 | 4.95 | 0.43 | 0.21 | 0.64 | 40.43 | 138.10 | 344.22 | 116.21 | 98.78 | 456.220 | 1345.21 | 3221.21 | 7181.22 | 0.57 | 1.67 | 3.99 | 8.90 |
| 471 | 1700 | 40 | 28.4 | 138 | 4.2 | 4.40 | 4.81 | 5.10 | 0.41 | 0.29 | 0.70 | 40.47 | 138.07 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 472 | 1800 | 40 | 31.1 | 138 | 2.8 | 4.41 | 4.95 | 5.45 | 0.54 | 0.50 | 1.04 | 40.52 | 138.05 | 432.99 | 92.38 | 78.52 | 594.989 | 2058.98 | 5807.99 | 15401.9 | 0.74 | 2.55 | 7.20 | 19.09 |
| 473 | 1900 | 40 | 33.8 | 138 | 0.9 | 4.47 | 5.00 | 5.50 | 0.53 | 0.50 | 1.03 | 40.56 | 138.02 | 424.92 | 94.14 | 80.02 | 581.920 | 1984.92 | 5512.91 | 14383.9 | 0.72 | 2.46 | 6.83 | 17.83 |
| 474 | DELP85-B | | | | | | | | | | | | | | | | | | | | | | | |
| 475 | 1 | 37 | 40.2 | 135 | 42.7 | 3.80 | 4.40 | 5.18 | 0.60 | 0.78 | 1.38 | 37.67 | 135.71 | 481.41 | 83.09 | 70.63 | 674.410 | 2552.40 | 7889.41 | 23061.4 | 0.84 | 3.17 | 9.78 | 28.58 |
| 476 | 100 | 37 | 42.0 | 135 | 40.0 | 3.81 | 4.39 | 5.46 | 0.58 | 1.07 | 1.65 | 37.70 | 135.67 | 465.27 | 85.97 | 73.08 | 647.270 | 2378.27 | 7130.27 | 20170.2 | 0.81 | 2.95 | 8.84 | 25.00 |
| 477 | 200 | 37 | 44.0 | 135 | 37.6 | 3.82 | 4.37 | 5.50 | 0.55 | 1.13 | 1.68 | 37.73 | 135.63 | 441.06 | 90.69 | 77.09 | 608.059 | 2136.06 | 6115.06 | 16478.0 | 0.76 | 2.65 | 7.58 | 20.42 |
| 478 | 300 | 37 | 46.4 | 135 | 35.3 | 3.85 | 4.35 | 5.47 | 0.50 | 1.12 | 1.62 | 37.77 | 135.59 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 479 | 400 | 37 | 48.4 | 135 | 33.3 | 3.88 | 4.35 | 5.28 | 0.47 | 0.93 | 1.40 | 37.81 | 135.55 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 480 | 500 | 37 | 50.7 | 135 | 31.1 | 3.89 | 4.34 | 5.39 | 0.45 | 1.05 | 1.50 | 37.84 | 135.52 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 481 | 600 | 37 | 52.9 | 135 | 28.8 | 3.90 | 4.28 | 5.56 | 0.38 | 1.28 | 1.66 | 37.88 | 135.48 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 482 | 700 | 37 | 54.9 | 135 | 26.6 | 3.92 | 4.32 | 5.26 | 0.40 | 0.94 | 1.34 | 37.91 | 135.44 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 483 | 800 | 37 | 56.8 | 135 | 24.3 | 3.93 | 4.27 | 4.76 | 0.34 | 0.49 | 0.83 | 37.95 | 135.41 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 484 | 900 | 37 | 58.7 | 135 | 21.9 | 3.96 | 4.30 | 4.71 | 0.34 | 0.41 | 0.75 | 37.98 | 135.37 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 485 | 1000 | 38 | 0.7 | 135 | 19.5 | 3.97 | 4.41 | 5.14 | 0.44 | 0.73 | 1.17 | 38.01 | 135.33 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 486 | 1100 | 38 | 3.3 | 135 | 16.6 | 3.97 | 4.49 | 5.53 | 0.52 | 1.04 | 1.56 | 38.06 | 135.28 | 416.85 | 95.96 | 81.56 | 568.849 | 1912.84 | 5233.85 | 13439.8 | 0.71 | 2.37 | 6.49 | 16.66 |
| 487 | 1200 | 38 | 5.4 | 135 | 14.5 | 3.99 | 4.25 | 4.82 | 0.26 | 0.57 | 0.83 | 38.09 | 135.24 | 207.02 | 193.22 | 164.24 | 260.020 | 602.020 | 1138.02 | 1978.02 | 0.33 | 0.75 | 1.41 | 2.45 |
| 488 | 1300 | 38 | 7.7 | 135 | 12.3 | 3.99 | 4.50 | 4.91 | 0.51 | 0.41 | 0.92 | 38.13 | 135.20 | 408.78 | 97.85 | 83.17 | 555.780 | 1841.78 | 4965.77 | 12549.7 | 0.69 | 2.29 | 6.16 | 15.55 |
| 489 | 1400 | 38 | 9.3 | 135 | 9.6 | 4.00 | 4.70 | 5.15 | 0.70 | 0.45 | 1.15 | 38.16 | 135.16 | 562.12 | 71.16 | 60.49 | 814.119 | 3579.12 | 12943.1 | 44654.1 | 1.01 | 4.44 | 16.04 | 55.33 |
| 490 | 1500 | 38 | 11.7 | 135 | 6.9 | 4.00 | 4.54 | 4.94 | 0.54 | 0.40 | 0.94 | 38.19 | 135.12 | 432.99 | 92.38 | 78.52 | 594.989 | 2058.98 | 5807.99 | 15401.9 | 0.74 | 2.55 | 7.20 | 19.09 |
| 491 | 1600 | 38 | 13.7 | 135 | 4.7 | 4.00 | 4.54 | 5.07 | 0.54 | 0.53 | 1.07 | 38.23 | 135.08 | 432.99 | 92.38 | 78.52 | 594.989 | 2058.98 | 5807.99 | 15401.9 | 0.74 | 2.55 | 7.20 | 19.09 |
| 492 | 1700 | 38 | 15.7 | 135 | 2.3 | 4.00 | 4.59 | 5.23 | 0.59 | 0.64 | 1.23 | 38.26 | 135.04 | 473.34 | 84.51 | 71.83 | 661.339 | 2464.34 | 7502.33 | 21573.3 | 0.82 | 3.06 | 9.30 | 26.73 |
| 493 | 1800 | 38 | 17.5 | 135 | 0.1 | 4.00 | 4.60 | 5.38 | 0.60 | 0.78 | 1.38 | 38.29 | 135.00 | 481.41 | 83.09 | 70.63 | 674.410 | 2552.40 | 7889.41 | 23061.4 | 0.84 | 3.17 | 9.78 | 28.58 |
| 494 | 1895 | 38 | 19.4 | 134 | 57.8 | 4.00 | 4.64 | 5.43 | 0.64 | 0.79 | 1.43 | 38.32 | 134.96 | 513.70 | 77.87 | 66.19 | 728.700 | 2929.69 | 9637.70 | 30090.6 | 0.91 | 3.63 | 11.95 | 37.29 |
| 495 | 1 | 38 | 21.0 | 134 | 57.0 | 4.00 | 4.64 | 5.46 | 0.64 | 0.82 | 1.46 | 38.35 | 134.95 | 513.70 | 77.87 | 66.19 | 728.700 | 2929.69 | 9637.70 | 30090.6 | 0.91 | 3.63 | 11.95 | 37.29 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 496 | 100 | 38 | 22.8 | 134 | 54.5 | 4.00 | 4.63 | 5.46 | 0.63 | 0.83 | 1.46 | 38.38 | 134.91 | 505.62 | 79.11 | 67.24 | 715.619 | 2831.62 | 9172.62 | 28170.6 | 0.89 | 3.51 | 11.37 | 34.91 |
| 497 | 200 | 38 | 24.5 | 134 | 51.8 | 4.00 | 4.62 | 5.45 | 0.62 | 0.83 | 1.45 | 38.41 | 134.86 | 497.55 | 80.39 | 68.33 | 701.549 | 2736.55 | 8725.54 | 26360.5 | 0.87 | 3.39 | 10.82 | 32.67 |
| 498 | 300 | 38 | 26.4 | 134 | 49.3 | 4.00 | 4.60 | 5.45 | 0.60 | 0.85 | 1.45 | 38.44 | 134.82 | 481.41 | 83.09 | 70.63 | 674.410 | 2552.40 | 7889.41 | 23061.4 | 0.84 | 3.17 | 9.78 | 28.58 |
| 499 | 400 | 38 | 28.3 | 134 | 46.8 | 4.00 | 4.59 | 5.30 | 0.59 | 0.71 | 1.30 | 38.47 | 134.78 | 473.34 | 84.51 | 71.83 | 661.339 | 2464.34 | 7502.33 | 21573.3 | 0.82 | 3.06 | 9.30 | 26.73 |
| 500 | 500 | 38 | 30.2 | 134 | 44.3 | 4.00 | 4.53 | 5.10 | 0.53 | 0.57 | 1.10 | 38.50 | 134.74 | 424.92 | 94.14 | 80.02 | 581.920 | 1984.92 | 5512.91 | 14383.9 | 0.72 | 2.46 | 6.83 | 17.83 |
| 501 | 594 | 38 | 32.5 | 134 | 42.4 | 4.00 | 4.55 | 5.03 | 0.55 | 0.48 | 1.03 | 38.54 | 134.71 | 441.06 | 90.69 | 77.09 | 608.059 | 2136.06 | 6115.06 | 16478.0 | 0.76 | 2.65 | 7.58 | 20.42 |
| 502 | DELP85-A | | | | | | | | | | | | | | | | | | | | | | | |
| 503 | 200 | 39 | 3.6 | 136 | 32.5 | 3.40 | 3.69 | 4.10 | 0.29 | 0.41 | 0.70 | 39.06 | 136.54 | 231.23 | 172.99 | 147.04 | 293.229 | 707.229 | 1393.22 | 2524.22 | 0.37 | 0.88 | 1.73 | 3.13 |
| 504 | 400 | 38 | 59.8 | 136 | 28.1 | 3.50 | 3.75 | 4.52 | 0.25 | 0.77 | 1.02 | 39.00 | 136.47 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 505 | 500 | 38 | 57.8 | 136 | 26.1 | 3.52 | 3.79 | 4.50 | 0.27 | 0.71 | 0.98 | 38.96 | 136.43 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 506 | 700 | 38 | 53.6 | 136 | 22.4 | 3.58 | 3.85 | 4.32 | 0.27 | 0.47 | 0.74 | 38.89 | 136.37 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 507 | 800 | 38 | 51.6 | 136 | 20.5 | 3.58 | 3.82 | 4.27 | 0.24 | 0.45 | 0.69 | 38.86 | 136.34 | 190.88 | 209.56 | 178.13 | 237.880 | 535.880 | 987.880 | 1670.88 | 0.30 | 0.67 | 1.23 | 2.07 |
| 508 | 900 | 38 | 49.5 | 136 | 18.4 | 3.59 | 3.86 | 4.41 | 0.27 | 0.55 | 0.82 | 38.83 | 136.31 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 509 | 1100 | 38 | 45.8 | 136 | 13.5 | 3.60 | 3.90 | 4.35 | 0.30 | 0.45 | 0.75 | 38.76 | 136.23 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 510 | 1200 | 38 | 44.2 | 136 | 10.1 | 3.60 | 3.89 | 4.50 | 0.29 | 0.61 | 0.90 | 38.74 | 136.17 | 231.23 | 172.99 | 147.04 | 293.229 | 707.229 | 1393.22 | 2524.22 | 0.37 | 0.88 | 1.73 | 3.13 |
| 511 | 1300 | 38 | 42.8 | 136 | 7.9 | 3.60 | 3.90 | 4.61 | 0.30 | 0.71 | 1.01 | 38.71 | 136.13 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 512 | 1500 | 38 | 39.7 | 136 | 2.5 | 3.60 | 4.05 | 4.51 | 0.45 | 0.46 | 0.91 | 38.66 | 136.04 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 513 | 1600 | 38 | 38.0 | 135 | 59.8 | 3.61 | 4.08 | 4.82 | 0.47 | 0.74 | 1.21 | 38.63 | 136.00 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 514 | 1700 | 38 | 36.0 | 135 | 57.5 | 3.61 | 4.04 | 4.74 | 0.43 | 0.70 | 1.13 | 38.60 | 135.96 | 344.22 | 116.21 | 98.78 | 456.220 | 1345.21 | 3221.21 | 7181.22 | 0.57 | 1.67 | 3.99 | 8.90 |
| 515 | 1800 | 38 | 33.9 | 135 | 53.1 | 3.61 | 4.02 | 4.60 | 0.41 | 0.58 | 0.99 | 38.57 | 135.89 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 516 | 2100 | 38 | 27.7 | 135 | 48.7 | 3.98 | 4.20 | 4.60 | 0.22 | 0.40 | 0.62 | 38.46 | 135.81 | 174.73 | 228.92 | 194.58 | 216.729 | 474.729 | 851.729 | 1401.72 | 0.27 | 0.59 | 1.06 | 1.74 |
| 517 | 2200 | 38 | 25.7 | 135 | 46.6 | 3.97 | 4.23 | 4.90 | 0.26 | 0.67 | 0.93 | 38.43 | 135.78 | 207.02 | 193.22 | 164.24 | 260.020 | 602.020 | 1138.02 | 1978.02 | 0.33 | 0.75 | 1.41 | 2.45 |
| 518 | 2300 | 38 | 23.6 | 135 | 44.5 | 3.95 | 4.15 | 5.00 | 0.20 | 0.85 | 1.05 | 38.39 | 135.74 | 158.59 | 252.22 | 214.38 | 195.589 | 416.589 | 727.589 | 1167.58 | 0.25 | 0.52 | 0.91 | 1.45 |
| 519 | 2400 | 38 | 21.5 | 135 | 42.5 | 3.99 | 4.24 | 5.00 | 0.25 | 0.76 | 1.01 | 38.36 | 135.71 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 520 | 2500 | 38 | 19.3 | 135 | 40.2 | 3.92 | 4.18 | 4.90 | 0.26 | 0.72 | 0.98 | 38.32 | 135.67 | 207.02 | 193.22 | 164.24 | 260.020 | 602.020 | 1138.02 | 1978.02 | 0.33 | 0.75 | 1.41 | 2.45 |
| 521 | 2600 | 38 | 17.1 | 135 | 37.8 | 3.91 | 4.20 | 4.91 | 0.29 | 0.71 | 1.00 | 38.29 | 135.63 | 231.23 | 172.99 | 147.04 | 293.229 | 707.229 | 1393.22 | 2524.22 | 0.37 | 0.88 | 1.73 | 3.13 |
| 522 | 2700 | 38 | 15.0 | 135 | 35.4 | 3.90 | 4.15 | 4.80 | 0.25 | 0.65 | 0.90 | 38.25 | 135.59 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 523 | 2800 | 38 | 12.9 | 135 | 32.9 | 3.91 | 4.19 | 4.89 | 0.28 | 0.70 | 0.98 | 38.22 | 135.55 | 223.16 | 179.25 | 152.36 | 281.160 | 671.160 | 1303.16 | 2330.15 | 0.35 | 0.84 | 1.62 | 2.89 |
| 524 | 2900 | 38 | 11.1 | 135 | 30.2 | 3.91 | 4.21 | 4.60 | 0.30 | 0.39 | 0.69 | 38.18 | 135.50 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 525 | 3000 | 38 | 9.2 | 135 | 27.2 | 3.89 | 4.23 | 4.50 | 0.34 | 0.27 | 0.61 | 38.15 | 135.45 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 526 | 3300 | 38 | 3.7 | 135 | 18.8 | 3.97 | 4.40 | 4.90 | 0.43 | 0.50 | 0.93 | 38.06 | 135.31 | 344.22 | 116.21 | 98.78 | 456.220 | 1345.21 | 3221.21 | 7181.22 | 0.57 | 1.67 | 3.99 | 8.90 |
| 527 | 3400 | 38 | 1.6 | 135 | 16.4 | 3.98 | 4.45 | 5.50 | 0.47 | 1.05 | 1.52 | 38.03 | 135.27 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 528 | 3500 | 37 | 59.5 | 135 | 13.8 | 3.97 | 4.43 | 5.50 | 0.46 | 1.07 | 1.53 | 37.99 | 135.23 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 529 | 3600 | 37 | 57.7 | 135 | 11.6 | 3.97 | 4.41 | 5.47 | 0.44 | 1.06 | 1.50 | 37.96 | 135.19 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 530 | 3700 | 37 | 55.6 | 135 | 9.0 | 3.96 | 4.34 | 4.75 | 0.38 | 0.41 | 0.79 | 37.93 | 135.15 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 531 | 4100 | 37 | 47.9 | 134 | 59.5 | 3.94 | 4.40 | 4.90 | 0.46 | 0.50 | 0.96 | 37.80 | 134.99 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 532 | 4200 | 37 | 46.0 | 134 | 56.8 | 3.96 | 4.47 | 5.30 | 0.51 | 0.83 | 1.34 | 37.77 | 134.95 | 408.78 | 97.85 | 83.17 | 555.780 | 1841.78 | 4965.77 | 12549.7 | 0.69 | 2.29 | 6.16 | 15.55 |
| 533 | 4300 | 37 | 44.1 | 134 | 54.6 | 3.96 | 4.45 | 5.35 | 0.49 | 0.90 | 1.39 | 37.73 | 134.91 | 392.64 | 101.88 | 86.59 | 530.640 | 1707.64 | 4466.64 | 10934.6 | 0.66 | 2.12 | 5.54 | 13.55 |
| 534 | 4400 | 37 | 42.1 | 134 | 52.3 | 3.97 | 4.42 | 5.32 | 0.45 | 0.90 | 1.35 | 37.70 | 134.87 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 535 | 4500 | 37 | 40.1 | 134 | 50.0 | 3.95 | 4.41 | 5.20 | 0.46 | 0.79 | 1.25 | 37.67 | 134.83 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 536 | DELP85-D&E | | | | | | | | | | | | | | | | | | | | | | | |
| 537 | 2100 | 39 | 30.9 | 137 | 42.3 | 3.49 | 3.70 | 4.59 | 0.21 | 0.89 | 1.10 | 39.51 | 137.71 | 166.66 | 240.00 | 204.00 | 205.660 | 444.660 | 787.660 | 1280.66 | 0.26 | 0.55 | 0.98 | 1.59 |
| 538 | 2200 | 39 | 32.4 | 137 | 44.6 | 3.49 | 3.76 | 4.24 | 0.27 | 0.48 | 0.75 | 39.54 | 137.74 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 539 | 2400 | 39 | 35.1 | 137 | 50.4 | 3.51 | 3.98 | 4.30 | 0.47 | 0.32 | 0.79 | 39.58 | 137.84 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 540 | 2500 | 39 | 37.1 | 137 | 53.6 | 3.49 | 3.93 | 4.20 | 0.44 | 0.27 | 0.71 | 39.62 | 137.89 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 541 | 2600 | 39 | 38.2 | 137 | 56.8 | 3.48 | 3.83 | 4.00 | 0.35 | 0.17 | 0.52 | 39.64 | 137.95 | 279.65 | 143.04 | 121.58 | 360.649 | 949.650 | 2029.65 | 4010.64 | 0.45 | 1.18 | 2.52 | 4.97 |
| 542 | 2700 | 39 | 39.4 | 138 | 0.10 | 3.40 | 3.90 | 4.14 | 0.50 | 0.24 | 0.74 | 39.66 | 138.00 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 543 | 2800 | 39 | 42.3 | 138 | 1.1 | 3.47 | 3.94 | 4.18 | 0.47 | 0.24 | 0.71 | 39.71 | 138.02 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 544 | 3100 | 39 | 50.9 | 138 | 4.2 | 3.61 | 4.10 | 4.34 | 0.49 | 0.24 | 0.73 | 39.85 | 138.07 | 392.64 | 101.88 | 86.59 | 530.640 | 1707.64 | 4466.64 | 10934.6 | 0.66 | 2.12 | 5.54 | 13.55 |
| 545 | 3200 | 39 | 53.7 | 138 | 5.3 | 3.62 | 4.09 | 4.19 | 0.47 | 0.10 | 0.57 | 39.90 | 138.09 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 546 | 3300 | 39 | 56.6 | 138 | 6.3 | 3.63 | 4.09 | 4.22 | 0.46 | 0.13 | 0.59 | 39.94 | 138.11 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 547 | 3500 | 40 | 2.3 | 138 | 8.4 | 3.71 | 4.10 | 4.22 | 0.39 | 0.12 | 0.51 | 40.04 | 138.14 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 548 | 3600 | 40 | 5.2 | 138 | 10.0 | 3.75 | 4.18 | 4.30 | 0.43 | 0.12 | 0.55 | 40.09 | 138.17 | 344.21 | 116.21 | 98.78 | 456.209 | 1345.20 | 3221.20 | 7181.20 | 0.57 | 1.67 | 3.99 | 8.90 |
| 549 | 3700 | 40 | 7.7 | 138 | 11.6 | 3.80 | 4.18 | 4.35 | 0.38 | 0.17 | 0.55 | 40.13 | 138.19 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 550 | 3800 | 40 | 10.2 | 138 | 13.0 | 3.27 | 4.07 | 4.20 | 0.80 | 0.13 | 0.93 | 40.17 | 138.22 | 642.82 | 62.23 | 52.89 | 961.820 | 4928.81 | 20933.8 | 85518.8 | 1.20 | 6.11 | 25.94 | 105.97 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 551 | 3900 | 40 | 12.8 | 138 | 14.3 | 3.77 | 4.12 | 4.40 | 0.35 | 0.28 | 0.63 | 40.21 | 138.24 | 279.65 | 143.04 | 121.58 | 360.649 | 949.650 | 2029.65 | 4010.64 | 0.45 | 1.18 | 2.52 | 4.97 |
| 552 | 4000 | 40 | 15.4 | 138 | 15.5 | 3.70 | 4.06 | 4.30 | 0.36 | 0.24 | 0.60 | 40.26 | 138.26 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 553 | 4100 | 40 | 17.7 | 138 | 16.7 | 3.77 | 4.10 | 4.30 | 0.33 | 0.20 | 0.53 | 40.30 | 138.28 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |
| 554 | DELP85-C&D | | | | | | | | | | | | | | | | | | | | | | | |
| 555 | 50 | 39 | 10.1 | 136 | 38.3 | 3.47 | 3.60 | 4.18 | 0.13 | 0.58 | 0.71 | 39.17 | 136.64 | 102.10 | 391.77 | 333.01 | 123.099 | 238.100 | 382.100 | 561.099 | 0.16 | 0.30 | 0.48 | 0.70 |
| 556 | 100 | 39 | 10.3 | 136 | 39.8 | 3.49 | 3.64 | 4.30 | 0.15 | 0.66 | 0.81 | 39.17 | 136.66 | 118.24 | 338.29 | 287.55 | 143.239 | 285.239 | 468.239 | 705.239 | 0.18 | 0.36 | 0.58 | 0.88 |
| 557 | 200 | 39 | 11.3 | 136 | 43.3 | 3.48 | 3.63 | 4.33 | 0.15 | 0.70 | 0.85 | 39.19 | 136.72 | 118.24 | 338.29 | 287.55 | 143.239 | 285.239 | 468.239 | 705.239 | 0.18 | 0.36 | 0.58 | 0.88 |
| 558 | 300 | 39 | 12.2 | 136 | 46.7 | 3.40 | 3.54 | 3.90 | 0.14 | 0.36 | 0.50 | 39.20 | 136.78 | 110.17 | 363.07 | 308.61 | 133.169 | 261.169 | 424.169 | 631.169 | 0.17 | 0.33 | 0.53 | 0.79 |
| 559 | 400 | 39 | 12.9 | 136 | 50.3 | 3.40 | 3.60 | 4.20 | 0.20 | 0.60 | 0.80 | 39.22 | 136.84 | 158.59 | 252.22 | 214.38 | 195.589 | 416.589 | 727.589 | 1167.58 | 0.25 | 0.52 | 0.91 | 1.45 |
| 560 | 500 | 39 | 13.8 | 136 | 53.8 | 3.38 | 3.59 | 4.25 | 0.21 | 0.66 | 0.87 | 39.23 | 136.90 | 166.66 | 240.00 | 204.00 | 205.660 | 444.660 | 787.660 | 1280.66 | 0.26 | 0.55 | 0.98 | 1.59 |
| 561 | 600 | 39 | 14.9 | 136 | 57.2 | 3.30 | 3.57 | 4.33 | 0.27 | 0.76 | 1.03 | 39.25 | 136.95 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 562 | 700 | 39 | 16.2 | 137 | 0.4 | 3.21 | 3.62 | 4.46 | 0.41 | 0.84 | 1.25 | 39.27 | 137.01 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 563 | 800 | 39 | 17.5 | 137 | 3.1 | 3.16 | 3.60 | 4.47 | 0.44 | 0.87 | 1.31 | 39.29 | 137.05 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 564 | 1100 | 39 | 20.3 | 137 | 12.0 | 3.23 | 3.70 | 4.70 | 0.47 | 1.00 | 1.47 | 39.34 | 137.20 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 565 | 1200 | 39 | 21.3 | 137 | 15.1 | 3.27 | 3.70 | 4.90 | 0.43 | 1.20 | 1.63 | 39.35 | 137.25 | 344.22 | 116.21 | 98.78 | 456.220 | 1345.21 | 3221.21 | 7181.22 | 0.57 | 1.67 | 3.99 | 8.90 |
| 566 | 1400 | 39 | 23.1 | 137 | 21.6 | 3.24 | 3.60 | 4.95 | 0.36 | 1.35 | 1.71 | 39.39 | 137.36 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 567 | 1500 | 39 | 24.2 | 137 | 24.6 | 3.32 | 3.61 | 4.88 | 0.29 | 1.27 | 1.56 | 39.40 | 137.41 | 231.23 | 172.99 | 147.04 | 293.229 | 707.229 | 1393.22 | 2524.22 | 0.37 | 0.88 | 1.73 | 3.13 |
| 568 | 1600 | 39 | 25.2 | 137 | 27.7 | 3.37 | 3.62 | 4.86 | 0.25 | 1.24 | 1.49 | 39.42 | 137.46 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 569 | 1700 | 39 | 26.2 | 137 | 30.7 | 3.42 | 3.64 | 4.89 | 0.22 | 1.25 | 1.47 | 39.44 | 137.51 | 174.73 | 228.92 | 194.58 | 216.729 | 474.729 | 851.729 | 1401.72 | 0.27 | 0.59 | 1.06 | 1.74 |
| 570 | 1800 | 39 | 27.1 | 137 | 34.1 | 3.45 | 3.65 | 4.60 | 0.20 | 0.95 | 1.15 | 39.45 | 137.57 | 158.59 | 252.22 | 214.38 | 195.589 | 416.589 | 727.589 | 1167.58 | 0.25 | 0.52 | 0.91 | 1.45 |
| 571 | 1900 | 39 | 28.4 | 137 | 36.8 | 3.49 | 3.69 | 4.75 | 0.20 | 1.06 | 1.26 | 39.47 | 137.61 | 158.59 | 252.22 | 214.38 | 195.589 | 416.589 | 727.589 | 1167.58 | 0.25 | 0.52 | 0.91 | 1.45 |
| 572 | 2000 | 39 | 29.6 | 137 | 39.7 | 3.50 | 3.70 | 4.69 | 0.20 | 0.99 | 1.19 | 39.49 | 137.66 | 158.59 | 252.22 | 214.38 | 195.589 | 416.589 | 727.589 | 1167.58 | 0.25 | 0.52 | 0.91 | 1.45 |
| 573 | JAPEX Y85-1 | | | | | | | | | | | | | | | | | | | | | | | |
| 574 | 0 | 41 | 7.5 | 137 | 17.0 | 4.72 | 5.06 | 6.07 | 0.34 | 1.01 | 1.35 | 41.13 | 137.28 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 575 | 200 | 41 | 5.0 | 137 | 19.0 | 4.71 | 5.02 | 6.00 | 0.31 | 0.98 | 1.29 | 41.08 | 137.32 | 247.37 | 161.70 | 137.45 | 315.369 | 783.369 | 1584.36 | 2955.37 | 0.39 | 0.97 | 1.97 | 3.67 |
| 576 | 400 | 41 | 3.0 | 137 | 21.5 | 4.70 | 5.00 | 5.90 | 0.30 | 0.90 | 1.20 | 41.05 | 137.36 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 577 | 600 | 41 | 0.5 | 137 | 23.5 | 4.67 | 4.98 | 5.97 | 0.31 | 0.99 | 1.30 | 41.01 | 137.39 | 247.37 | 161.70 | 137.45 | 315.369 | 783.369 | 1584.36 | 2955.37 | 0.39 | 0.97 | 1.97 | 3.67 |
| 578 | 800 | 40 | 58.5 | 137 | 25.5 | 4.61 | 4.94 | 5.94 | 0.33 | 1.00 | 1.33 | 40.98 | 137.43 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |
| 579 | 1000 | 40 | 56.5 | 137 | 28.0 | 4.54 | 4.92 | 5.86 | 0.38 | 0.94 | 1.32 | 40.94 | 137.47 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 580 | 1200 | 40 | 54.2 | 137 | 30.0 | 4.52 | 4.90 | 5.60 | 0.38 | 0.70 | 1.08 | 40.90 | 137.50 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 581 | 1400 | 40 | 52.5 | 137 | 32.0 | 4.52 | 4.90 | 5.30 | 0.38 | 0.40 | 0.78 | 40.88 | 137.53 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 582 | 1600 | 40 | 50.0 | 137 | 34.5 | 4.49 | 4.85 | 5.56 | 0.36 | 0.71 | 1.07 | 40.83 | 137.58 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 583 | 1800 | 40 | 48.0 | 137 | 36.5 | 4.44 | 4.80 | 5.46 | 0.36 | 0.66 | 1.02 | 40.80 | 137.61 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 584 | 2000 | 40 | 46.1 | 137 | 38.5 | 4.41 | 4.79 | 5.46 | 0.38 | 0.67 | 1.05 | 40.77 | 137.64 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 585 | 2200 | 40 | 43.5 | 137 | 41.0 | 4.39 | 4.78 | 4.90 | 0.39 | 0.12 | 0.51 | 40.73 | 137.68 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 586 | 2600 | 40 | 39.3 | 137 | 45.0 | 4.44 | 4.97 | 5.51 | 0.53 | 0.54 | 1.07 | 40.66 | 137.75 | 424.92 | 94.14 | 80.02 | 581.920 | 1984.92 | 5512.91 | 14383.9 | 0.72 | 2.46 | 6.83 | 17.83 |
| 587 | 2800 | 40 | 37.5 | 137 | 47.5 | 4.41 | 4.82 | 5.13 | 0.41 | 0.31 | 0.72 | 40.63 | 137.79 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 588 | 3400 | 40 | 30.3 | 137 | 54.0 | 4.31 | 4.60 | 4.80 | 0.29 | 0.20 | 0.49 | 40.51 | 137.90 | 231.23 | 172.99 | 147.04 | 293.229 | 707.229 | 1393.22 | 2524.22 | 0.37 | 0.88 | 1.73 | 3.13 |
| 589 | 3600 | 40 | 28.5 | 137 | 56.0 | 4.31 | 4.68 | 4.82 | 0.37 | 0.14 | 0.51 | 40.48 | 137.93 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 590 | 3800 | 40 | 26.5 | 137 | 58.0 | 4.34 | 4.72 | 4.80 | 0.38 | 0.08 | 0.46 | 40.44 | 137.97 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 591 | 4000 | 40 | 24.2 | 138 | 0.2 | 4.37 | 4.78 | 5.00 | 0.41 | 0.22 | 0.63 | 40.40 | 138.00 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 592 | 4200 | 40 | 22.5 | 138 | 2.4 | 4.30 | 4.75 | 4.97 | 0.45 | 0.22 | 0.67 | 40.38 | 138.04 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 593 | 4400 | 40 | 20.0 | 138 | 4.5 | 4.21 | 4.68 | 4.90 | 0.47 | 0.22 | 0.69 | 40.33 | 138.08 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 594 | 4600 | 40 | 18.0 | 138 | 6.5 | 4.12 | 4.54 | 4.57 | 0.42 | 0.03 | 0.45 | 40.30 | 138.11 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 595 | 4800 | 40 | 15.8 | 138 | 9.0 | 4.03 | 4.49 | 4.71 | 0.46 | 0.22 | 0.68 | 40.26 | 138.15 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 596 | 5000 | 40 | 13.5 | 138 | 11.0 | 3.99 | 4.34 | 4.56 | 0.35 | 0.22 | 0.57 | 40.23 | 138.18 | 279.65 | 143.04 | 121.58 | 360.649 | 949.650 | 2029.65 | 4010.64 | 0.45 | 1.18 | 2.52 | 4.97 |
| 597 | 5200 | 40 | 11.5 | 138 | 13.0 | 3.87 | 4.20 | 4.48 | 0.33 | 0.28 | 0.61 | 40.19 | 138.22 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |
| 598 | 5600 | 40 | 7.0 | 138 | 17.5 | 3.61 | 4.00 | 4.25 | 0.39 | 0.25 | 0.64 | 40.12 | 138.29 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 599 | 6400 | 39 | 58.5 | 138 | 26.0 | 3.48 | 3.91 | 4.30 | 0.43 | 0.39 | 0.82 | 39.98 | 138.43 | 344.22 | 116.21 | 98.78 | 456.220 | 1345.21 | 3221.21 | 7181.22 | 0.57 | 1.67 | 3.99 | 8.90 |
| 600 | 6600 | 39 | 56.0 | 138 | 28.0 | 3.46 | 3.88 | 4.30 | 0.42 | 0.42 | 0.84 | 39.93 | 138.47 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 601 | 6800 | 39 | 54.3 | 138 | 30.2 | 3.40 | 3.85 | 4.16 | 0.45 | 0.31 | 0.76 | 39.91 | 138.50 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 602 | JAPEX Y85-6 | | | | | | | | | | | | | | | | | | | | | | | |
| 603 | 50 | 37 | 20.3 | 135 | 31.5 | 2.02 | 2.31 | 2.41 | 0.29 | 0.10 | 0.39 | 37.34 | 135.53 | 231.23 | 172.99 | 147.04 | 293.229 | 707.229 | 1393.22 | 2524.22 | 0.37 | 0.88 | 1.73 | 3.13 |
| 604 | 250 | 37 | 18.0 | 135 | 33.1 | 1.80 | 2.30 | 2.80 | 0.50 | 0.50 | 1.00 | 37.30 | 135.55 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 605 | 450 | 37 | 16.5 | 135 | 35.5 | 1.98 | 2.52 | 2.92 | 0.54 | 0.40 | 0.94 | 37.28 | 135.59 | 432.99 | 92.38 | 78.52 | 594.989 | 2058.98 | 5807.99 | 15401.9 | 0.74 | 2.55 | 7.20 | 19.09 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 606 | JAPEX Y-85-6-1 | | | | | | | | | | | | | | | | | | | | | | | |
| 607 | 1600 | 37 | 25.0 | 135 | 26.3 | 3.88 | 4.49 | 5.54 | 0.61 | 1.05 | 1.66 | 37.42 | 135.44 | 489.48 | 81.72 | 69.46 | 687.479 | 2642.47 | 8298.48 | 24658.4 | 0.86 | 3.28 | 10.29 | 30.56 |
| 608 | 1800 | 37 | 27.0 | 135 | 24.2 | 3.89 | 4.45 | 5.45 | 0.56 | 1.00 | 1.56 | 37.45 | 135.40 | 449.13 | 89.06 | 75.70 | 621.130 | 2215.12 | 6439.12 | 17634.1 | 0.77 | 2.75 | 7.98 | 21.85 |
| 609 | 2000 | 37 | 29.2 | 135 | 22.0 | 3.90 | 4.50 | 5.58 | 0.60 | 1.08 | 1.68 | 37.49 | 135.37 | 481.41 | 83.09 | 70.63 | 674.410 | 2552.40 | 7889.41 | 23061.4 | 0.84 | 3.17 | 9.78 | 28.58 |
| 610 | 2200 | 37 | 31.0 | 135 | 20.0 | 3.91 | 4.41 | 5.50 | 0.50 | 1.09 | 1.59 | 37.52 | 135.33 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 611 | 2400 | 37 | 33.0 | 135 | 18.0 | 3.91 | 4.40 | 5.47 | 0.49 | 1.07 | 1.56 | 37.55 | 135.30 | 392.64 | 101.88 | 86.59 | 530.640 | 1707.64 | 4466.64 | 10934.6 | 0.66 | 2.12 | 5.54 | 13.55 |
| 612 | 2600 | 37 | 35.3 | 135 | 16.0 | 3.92 | 4.37 | 5.26 | 0.45 | 0.89 | 1.34 | 37.59 | 135.27 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 613 | 2800 | 37 | 37.5 | 135 | 14.0 | 3.93 | 4.30 | 4.82 | 0.37 | 0.52 | 0.89 | 37.63 | 135.23 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 614 | 3000 | 37 | 39.6 | 135 | 12.0 | 3.94 | 4.36 | 4.97 | 0.42 | 0.61 | 1.03 | 37.66 | 135.20 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 615 | 3200 | 37 | 41.6 | 135 | 9.5 | 3.95 | 4.39 | 5.00 | 0.44 | 0.61 | 1.05 | 37.69 | 135.16 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 616 | 3400 | 37 | 44.0 | 135 | 7.5 | 3.96 | 4.39 | 5.00 | 0.43 | 0.61 | 1.04 | 37.73 | 135.13 | 344.21 | 116.21 | 98.78 | 456.209 | 1345.20 | 3221.20 | 7181.20 | 0.57 | 1.67 | 3.99 | 8.90 |
| 617 | 3600 | 37 | 46.0 | 135 | 5.0 | 3.96 | 4.28 | 4.85 | 0.32 | 0.57 | 0.89 | 37.77 | 135.08 | 255.44 | 156.59 | 133.10 | 326.440 | 823.440 | 1688.43 | 3193.43 | 0.41 | 1.02 | 2.10 | 3.96 |
| 618 | 3800 | 37 | 48.0 | 135 | 3.0 | 3.97 | 4.30 | 4.45 | 0.33 | 0.15 | 0.48 | 37.80 | 135.05 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |
| 619 | 4000 | 37 | 50.0 | 135 | 1.0 | 3.98 | 4.59 | 5.10 | 0.61 | 0.51 | 1.12 | 37.83 | 135.02 | 489.48 | 81.72 | 69.46 | 687.479 | 2642.47 | 8298.48 | 24658.4 | 0.86 | 3.28 | 10.29 | 30.56 |
| 620 | 4200 | 37 | 52.0 | 134 | 59.0 | 3.99 | 4.61 | 5.29 | 0.62 | 0.68 | 1.30 | 37.87 | 134.98 | 497.55 | 80.39 | 68.33 | 701.549 | 2736.55 | 8725.54 | 26360.5 | 0.87 | 3.39 | 10.82 | 32.67 |
| 621 | 4400 | 37 | 54.0 | 134 | 56.6 | 3.99 | 4.61 | 5.37 | 0.62 | 0.76 | 1.38 | 37.90 | 134.94 | 497.55 | 80.39 | 68.33 | 701.549 | 2736.55 | 8725.54 | 26360.5 | 0.87 | 3.39 | 10.82 | 32.67 |
| 622 | 4600 | 37 | 56.0 | 134 | 54.2 | 4.00 | 4.60 | 5.39 | 0.60 | 0.79 | 1.39 | 37.93 | 134.90 | 481.41 | 83.09 | 70.63 | 674.410 | 2552.40 | 7889.41 | 23061.4 | 0.84 | 3.17 | 9.78 | 28.58 |
| 623 | 4800 | 37 | 58.0 | 134 | 52.5 | 4.00 | 4.60 | 5.34 | 0.60 | 0.74 | 1.34 | 37.97 | 134.88 | 481.41 | 83.09 | 70.63 | 674.410 | 2552.40 | 7889.41 | 23061.4 | 0.84 | 3.17 | 9.78 | 28.58 |
| 624 | 5000 | 38 | 0.5 | 134 | 50.0 | 3.99 | 4.69 | 5.15 | 0.70 | 0.46 | 1.16 | 38.01 | 134.83 | 562.12 | 71.16 | 60.49 | 814.119 | 3579.12 | 12943.1 | 44654.1 | 1.01 | 4.44 | 16.04 | 55.33 |
| 625 | 5200 | 38 | 2.5 | 134 | 48.0 | 4.00 | 4.56 | 5.04 | 0.56 | 0.48 | 1.04 | 38.04 | 134.80 | 449.13 | 89.06 | 75.70 | 621.130 | 2215.12 | 6439.12 | 17634.1 | 0.77 | 2.75 | 7.98 | 21.85 |
| 626 | 5400 | 38 | 4.5 | 134 | 46.0 | 3.99 | 4.57 | 5.94 | 0.58 | 1.37 | 1.95 | 38.08 | 134.77 | 465.27 | 85.97 | 73.08 | 647.270 | 2378.27 | 7130.27 | 20170.2 | 0.81 | 2.95 | 8.84 | 25.00 |
| 627 | 5600 | 38 | 7.0 | 134 | 43.5 | 3.98 | 4.50 | 4.81 | 0.52 | 0.31 | 0.83 | 38.12 | 134.73 | 416.85 | 95.96 | 81.56 | 568.849 | 1912.84 | 5233.85 | 13439.8 | 0.71 | 2.37 | 6.49 | 16.66 |
| 628 | 5800 | 38 | 9.0 | 134 | 41.5 | 3.97 | 4.22 | 4.60 | 0.25 | 0.38 | 0.63 | 38.15 | 134.69 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 629 | 6000 | 38 | 11.0 | 134 | 39.0 | 3.70 | 3.98 | 4.30 | 0.28 | 0.32 | 0.60 | 38.18 | 134.65 | 223.16 | 179.25 | 152.36 | 281.160 | 671.160 | 1303.16 | 2330.15 | 0.35 | 0.84 | 1.62 | 2.89 |
| 630 | 6200 | 38 | 13.0 | 134 | 37.0 | 3.61 | 3.98 | 4.20 | 0.37 | 0.22 | 0.59 | 38.22 | 134.62 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 631 | 8000 | 38 | 32.0 | 134 | 17.5 | 2.86 | 3.30 | 3.70 | 0.44 | 0.40 | 0.84 | 38.53 | 134.29 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 632 | 8200 | 38 | 34.0 | 134 | 15.5 | 2.91 | 3.21 | 3.40 | 0.30 | 0.19 | 0.49 | 38.57 | 134.26 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 633 | 8400 | 38 | 36.0 | 134 | 13.0 | 2.86 | 3.25 | 3.64 | 0.39 | 0.39 | 0.78 | 38.60 | 134.22 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 634 | 8600 | 38 | 38.0 | 134 | 11.0 | 2.61 | 2.97 | 3.07 | 0.36 | 0.10 | 0.46 | 38.63 | 134.18 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 635 | 8800 | 38 | 40.5 | 134 | 9.0 | 2.44 | 2.85 | 2.93 | 0.41 | 0.08 | 0.49 | 38.68 | 134.15 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 636 | 9000 | 38 | 42.0 | 134 | 6.5 | 2.30 | 2.77 | 3.16 | 0.47 | 0.39 | 0.86 | 38.70 | 134.11 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 637 | 9200 | 38 | 44.5 | 134 | 4.5 | 2.17 | 2.53 | 2.69 | 0.36 | 0.16 | 0.52 | 38.74 | 134.08 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 638 | JAPEX Y85-B | | | | | | | | | | | | | | | | | | | | | | | |
| 639 | 2700 | 38 | 40.0 | 133 | 54.5 | 1.92 | 2.16 | 2.50 | 0.24 | 0.34 | 0.58 | 38.67 | 133.91 | 190.88 | 209.56 | 178.13 | 237.880 | 535.880 | 987.880 | 1670.88 | 0.30 | 0.67 | 1.23 | 2.07 |
| 640 | 2900 | 38 | 42.5 | 133 | 57.5 | 1.97 | 2.36 | 2.70 | 0.39 | 0.34 | 0.73 | 38.71 | 133.96 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 641 | 3100 | 38 | 43.0 | 134 | 0.5 | 2.02 | 2.42 | 2.95 | 0.40 | 0.53 | 0.93 | 38.72 | 134.01 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 642 | 3300 | 38 | 44.0 | 134 | 3.5 | 2.11 | 2.45 | 2.90 | 0.34 | 0.45 | 0.79 | 38.73 | 134.06 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 643 | 3500 | 38 | 45.0 | 134 | 6.5 | 2.37 | 2.85 | 3.30 | 0.48 | 0.45 | 0.93 | 38.75 | 134.11 | 384.57 | 104.01 | 88.41 | 517.570 | 1642.57 | 4233.56 | 10202.5 | 0.64 | 2.04 | 5.25 | 12.65 |
| 644 | 3700 | 38 | 46.5 | 134 | 9.5 | 2.58 | 3.00 | 3.36 | 0.42 | 0.36 | 0.78 | 38.78 | 134.16 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 645 | 3900 | 38 | 47.5 | 134 | 12.5 | 2.56 | 2.98 | 3.23 | 0.42 | 0.25 | 0.67 | 38.79 | 134.21 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 646 | 4100 | 38 | 49.0 | 134 | 16.0 | 2.64 | 2.99 | 3.20 | 0.35 | 0.21 | 0.56 | 38.82 | 134.27 | 279.65 | 143.04 | 121.58 | 360.649 | 949.650 | 2029.65 | 4010.64 | 0.45 | 1.18 | 2.52 | 4.97 |
| 647 | JAPEX Y85-B-1 | | | | | | | | | | | | | | | | | | | | | | | |
| 648 | 3900 | 39 | 34.0 | 136 | 9.0 | 2.20 | 2.53 | 2.76 | 0.33 | 0.23 | 0.56 | 39.57 | 136.15 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |
| 649 | 4100 | 39 | 35.5 | 136 | 12.5 | 2.37 | 2.74 | 3.15 | 0.37 | 0.41 | 0.78 | 39.59 | 136.21 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 650 | 4900 | 39 | 40.0 | 136 | 25.0 | 3.32 | 3.75 | 4.03 | 0.43 | 0.28 | 0.71 | 39.67 | 136.42 | 344.22 | 116.21 | 98.78 | 456.220 | 1345.21 | 3221.21 | 7181.22 | 0.57 | 1.67 | 3.99 | 8.90 |
| 651 | 7000 | 39 | 53.0 | 136 | 27.5 | 2.57 | 2.88 | 3.11 | 0.31 | 0.23 | 0.54 | 39.88 | 136.46 | 247.37 | 161.70 | 137.45 | 315.369 | 783.369 | 1584.36 | 2955.37 | 0.39 | 0.97 | 1.97 | 3.67 |
| 652 | 7200 | 39 | 54.0 | 137 | 1.0 | 2.61 | 2.98 | 3.10 | 0.37 | 0.12 | 0.49 | 39.90 | 137.02 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 653 | 7400 | 39 | 55.0 | 137 | 4.0 | 2.80 | 3.19 | 3.36 | 0.39 | 0.17 | 0.56 | 39.92 | 137.07 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 654 | 7600 | 39 | 56.5 | 137 | 7.0 | 3.03 | 3.40 | 3.60 | 0.37 | 0.20 | 0.57 | 39.94 | 137.12 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 655 | 7800 | 39 | 57.5 | 137 | 10.0 | 3.07 | 3.41 | 3.57 | 0.34 | 0.16 | 0.50 | 39.96 | 137.17 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 656 | 8000 | 39 | 59.0 | 137 | 13.5 | 3.08 | 3.52 | 3.74 | 0.44 | 0.22 | 0.66 | 39.98 | 137.23 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 657 | 8200 | 39 | 59.6 | 137 | 17.0 | 3.05 | 3.45 | 3.65 | 0.40 | 0.20 | 0.60 | 39.99 | 137.28 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 658 | 8400 | 40 | 1.0 | 137 | 20.0 | 2.96 | 3.33 | 3.44 | 0.37 | 0.11 | 0.48 | 40.02 | 137.33 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 659 | 8600 | 40 | 2.3 | 137 | 23.0 | 3.10 | 3.40 | 3.60 | 0.30 | 0.20 | 0.50 | 40.04 | 137.38 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 660 | 8800 | 40 | 3.3 | 137 | 36.0 | 3.11 | 3.42 | 3.64 | 0.31 | 0.22 | 0.53 | 40.06 | 137.60 | 247.37 | 161.70 | 137.45 | 315.369 | 783.369 | 1584.36 | 2955.37 | 0.39 | 0.97 | 1.97 | 3.67 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 661 | 9000 | 40 | 4.5 | 137 | 29.0 | 3.18 | 3.59 | 3.90 | 0.41 | 0.31 | 0.72 | 40.08 | 137.48 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 662 | JAPEX Y85-B-3 | | | | | | | | | | | | | | | | | | | | | | | |
| 663 | 4300 | 40 | 30.0 | 138 | 40.0 | 4.30 | 4.70 | 5.00 | 0.40 | 0.30 | 0.70 | 40.50 | 138.67 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 664 | 4500 | 40 | 31.5 | 138 | 43.0 | 4.34 | 4.70 | 4.90 | 0.36 | 0.20 | 0.56 | 40.53 | 138.72 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 665 | 4700 | 40 | 32.5 | 138 | 46.0 | 4.40 | 4.82 | 5.03 | 0.42 | 0.21 | 0.63 | 40.54 | 138.77 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 666 | 4900 | 40 | 33.5 | 138 | 48.5 | 4.42 | 4.80 | 5.00 | 0.38 | 0.20 | 0.58 | 40.56 | 138.81 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 667 | 5100 | 40 | 35.0 | 138 | 52.5 | 4.40 | 5.00 | 5.22 | 0.60 | 0.22 | 0.82 | 40.58 | 138.88 | 481.41 | 83.09 | 70.63 | 674.410 | 2552.40 | 7889.41 | 23061.4 | 0.84 | 3.17 | 9.78 | 28.58 |
| 668 | 5300 | 40 | 36.0 | 138 | 56.0 | 4.38 | 5.10 | 5.20 | 0.72 | 0.10 | 0.82 | 40.60 | 138.93 | 578.26 | 69.17 | 58.80 | 842.260 | 3820.26 | 14264.2 | 50893.2 | 1.05 | 4.74 | 17.68 | 63.06 |
| 669 | KT-88-9 @107 | | | | | | | | | | | | | | | | | | | | | | | |
| 670 | 1 | 40 | 19.9 | 138 | 34.3 | 3.55 | 3.91 | 4.12 | 0.36 | 0.21 | 0.57 | 40.33 | 138.57 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 671 | 100 | 40 | 23.3 | 138 | 26.7 | 3.54 | 3.81 | 3.94 | 0.27 | 0.13 | 0.40 | 40.39 | 138.45 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 672 | 200 | 40 | 20.6 | 138 | 22.9 | 3.77 | 4.09 | 4.28 | 0.32 | 0.19 | 0.51 | 40.34 | 138.38 | 255.44 | 156.59 | 133.10 | 326.440 | 823.440 | 1688.43 | 3193.43 | 0.41 | 1.02 | 2.10 | 3.96 |
| 673 | 300 | 40 | 19.2 | 138 | 19.5 | 3.81 | 4.19 | 4.38 | 0.38 | 0.19 | 0.57 | 40.32 | 138.33 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 674 | 400 | 40 | 17.8 | 138 | 16.4 | 3.87 | 4.21 | 4.45 | 0.34 | 0.24 | 0.58 | 40.30 | 138.27 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 675 | 600 | 40 | 15.4 | 138 | 10.1 | 4.02 | 4.48 | 4.80 | 0.46 | 0.32 | 0.78 | 40.26 | 138.17 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 676 | 700 | 40 | 14.1 | 138 | 7.2 | 4.00 | 4.40 | 4.53 | 0.40 | 0.13 | 0.53 | 40.24 | 138.12 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 677 | KT-88-9 @108 | | | | | | | | | | | | | | | | | | | | | | | |
| 678 | 1000 | 40 | 15.2 | 138 | 6.7 | 4.05 | 4.49 | 4.69 | 0.44 | 0.20 | 0.64 | 40.25 | 138.11 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 679 | 1100 | 40 | 13.6 | 138 | 9.8 | 4.01 | 4.43 | 4.67 | 0.42 | 0.24 | 0.66 | 40.23 | 138.16 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 680 | 1200 | 40 | 12.0 | 138 | 13.1 | 3.90 | 4.22 | 4.49 | 0.32 | 0.27 | 0.59 | 40.20 | 138.22 | 255.44 | 156.59 | 133.10 | 326.440 | 823.440 | 1688.43 | 3193.43 | 0.41 | 1.02 | 2.10 | 3.96 |
| 681 | 1300 | 40 | 10.3 | 138 | 16.2 | 3.73 | 4.07 | 4.30 | 0.34 | 0.23 | 0.57 | 40.17 | 138.27 | 271.58 | 147.29 | 125.19 | 349.579 | 906.579 | 1910.57 | 3719.58 | 0.44 | 1.13 | 2.37 | 4.61 |
| 682 | 1400 | 40 | 8.3 | 138 | 18.8 | 3.58 | 3.95 | 4.22 | 0.37 | 0.27 | 0.64 | 40.14 | 138.31 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 683 | 1500 | 40 | 6.6 | 138 | 21.6 | 3.22 | 3.55 | 3.72 | 0.33 | 0.17 | 0.50 | 40.11 | 138.36 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |
| 684 | KT-88-9 @109 | | | | | | | | | | | | | | | | | | | | | | | |
| 685 | 1700 | 40 | 8.1 | 138 | 22.7 | 3.34 | 3.60 | 3.80 | 0.26 | 0.20 | 0.46 | 40.13 | 138.38 | 207.02 | 193.22 | 164.24 | 260.020 | 602.020 | 1138.02 | 1978.02 | 0.33 | 0.75 | 1.41 | 2.45 |
| 686 | 1800 | 40 | 9.8 | 138 | 19.4 | 3.54 | 3.99 | 4.24 | 0.45 | 0.25 | 0.70 | 40.16 | 138.32 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 687 | 1900 | 40 | 11.8 | 138 | 16.3 | 3.72 | 4.10 | 4.39 | 0.38 | 0.29 | 0.67 | 40.20 | 138.27 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 688 | 2000 | 40 | 13.9 | 138 | 13.0 | 3.89 | 4.25 | 4.49 | 0.36 | 0.24 | 0.60 | 40.23 | 138.22 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |
| 689 | 2100 | 40 | 15.7 | 138 | 10.0 | 4.02 | 4.48 | 4.74 | 0.46 | 0.26 | 0.72 | 40.26 | 138.17 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 690 | 2200 | 40 | 17.7 | 138 | 6.9 | 4.13 | 4.51 | 4.78 | 0.38 | 0.27 | 0.65 | 40.30 | 138.12 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 691 | 2300 | 40 | 19.6 | 138 | 0.5 | 4.23 | 4.66 | 4.90 | 0.43 | 0.24 | 0.67 | 40.33 | 138.01 | 344.21 | 116.21 | 98.78 | 456.209 | 1345.20 | 3221.20 | 7181.20 | 0.57 | 1.67 | 3.99 | 8.90 |
| 692 | 2400 | 40 | 21.4 | 138 | 0.5 | 4.30 | 4.72 | 4.90 | 0.42 | 0.18 | 0.60 | 40.36 | 138.01 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 693 | 2500 | 40 | 23.2 | 137 | 57.3 | 4.26 | 4.59 | 4.80 | 0.33 | 0.21 | 0.54 | 40.39 | 137.96 | 263.51 | 151.80 | 129.03 | 337.510 | 864.510 | 1796.51 | 3447.51 | 0.42 | 1.07 | 2.23 | 4.28 |
| 694 | KT-88-9 @110 | | | | | | | | | | | | | | | | | | | | | | | |
| 695 | 2800 | 40 | 27.5 | 137 | 58.7 | 4.37 | 4.74 | 4.95 | 0.37 | 0.21 | 0.58 | 40.46 | 137.98 | 295.79 | 135.23 | 114.95 | 384.790 | 1039.79 | 2285.79 | 4653.79 | 0.48 | 1.29 | 2.84 | 5.77 |
| 696 | 2900 | 40 | 26.0 | 138 | 1.9 | 4.40 | 4.81 | 5.10 | 0.41 | 0.29 | 0.70 | 40.43 | 138.03 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 697 | 3000 | 40 | 24.1 | 138 | 4.9 | 4.34 | 4.75 | 4.95 | 0.41 | 0.20 | 0.61 | 40.40 | 138.08 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 698 | 3100 | 40 | 22.5 | 138 | 7.9 | 4.29 | 4.70 | 4.92 | 0.41 | 0.22 | 0.63 | 40.38 | 138.13 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 699 | 3200 | 40 | 20.9 | 138 | 10.9 | 4.13 | 4.52 | 4.80 | 0.39 | 0.28 | 0.67 | 40.35 | 138.18 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 700 | 3300 | 40 | 19.2 | 138 | 13.5 | 4.04 | 4.43 | 4.65 | 0.39 | 0.22 | 0.61 | 40.32 | 138.23 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 701 | 3400 | 40 | 17.7 | 138 | 16.1 | 3.86 | 4.21 | 4.40 | 0.35 | 0.19 | 0.54 | 40.30 | 138.27 | 279.65 | 143.04 | 121.58 | 360.649 | 949.650 | 2029.65 | 4010.64 | 0.45 | 1.18 | 2.52 | 4.97 |
| 702 | 3500 | 40 | 16.0 | 138 | 19.0 | 3.62 | 4.00 | 4.15 | 0.38 | 0.15 | 0.53 | 40.27 | 138.32 | 303.86 | 131.64 | 111.89 | 395.859 | 1087.85 | 2423.85 | 5008.85 | 0.49 | 1.35 | 3.01 | 6.21 |
| 703 | 3700 | 40 | 12.2 | 138 | 24.5 | 3.33 | 3.80 | 4.02 | 0.47 | 0.22 | 0.69 | 40.20 | 138.41 | 376.50 | 106.24 | 90.31 | 505.5 | 1579.5 | 4011.5 | 9515.5 | 0.63 | 1.96 | 4.97 | 11.79 |
| 704 | JAPEX Y85-5-2 | | | | | | | | | | | | | | | | | | | | | | | |
| 705 | 1900 | 40 | 26.5 | 138 | 1.5 | 4.10 | 4.50 | 4.70 | 0.40 | 0.20 | 0.60 | 40.44 | 138.03 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 706 | 2100 | 40 | 27.5 | 138 | 4.5 | 4.15 | 4.59 | 4.77 | 0.44 | 0.18 | 0.62 | 40.46 | 138.08 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 707 | 2300 | 40 | 28.5 | 138 | 8.0 | 4.16 | 4.57 | 4.78 | 0.41 | 0.21 | 0.62 | 40.48 | 138.13 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 708 | 2500 | 40 | 29.5 | 138 | 11.0 | 4.10 | 4.51 | 4.75 | 0.41 | 0.24 | 0.65 | 40.49 | 138.18 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 709 | 2700 | 40 | 20.5 | 138 | 14.0 | 4.09 | 4.40 | 4.50 | 0.31 | 0.10 | 0.41 | 40.34 | 138.23 | 247.37 | 161.70 | 137.45 | 315.369 | 783.369 | 1584.36 | 2955.37 | 0.39 | 0.97 | 1.97 | 3.67 |
| 710 | 2900 | 40 | 21.5 | 138 | 17.5 | 4.13 | 4.58 | 4.78 | 0.45 | 0.20 | 0.65 | 40.36 | 138.29 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 711 | JAPEX Y85-5-2 | | | | | | | | | | | | | | | | | | | | | | | |
| 712 | 1000 | 38 | 15.0 | 135 | 34.5 | 3.95 | 4.20 | 4.93 | 0.25 | 0.73 | 0.98 | 38.25 | 135.58 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 713 | 1200 | 38 | 16.0 | 135 | 33.0 | 3.97 | 4.24 | 5.04 | 0.27 | 0.80 | 1.07 | 38.27 | 135.55 | 215.09 | 185.97 | 158.08 | 270.089 | 636.089 | 1219.08 | 2148.09 | 0.34 | 0.79 | 1.51 | 2.67 |
| 714 | 1400 | 38 | 19.0 | 135 | 30.0 | 3.99 | 4.30 | 5.19 | 0.31 | 0.89 | 1.20 | 38.32 | 135.50 | 247.37 | 161.70 | 137.45 | 315.369 | 783.369 | 1584.36 | 2955.37 | 0.39 | 0.97 | 1.97 | 3.67 |
| 715 | 1600 | 38 | 20.5 | 135 | 28.0 | 3.99 | 4.35 | 5.30 | 0.36 | 0.95 | 1.31 | 38.34 | 135.47 | 287.72 | 139.02 | 118.17 | 372.720 | 993.719 | 2154.71 | 4321.72 | 0.47 | 1.23 | 2.67 | 5.36 |

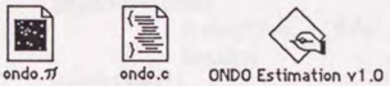
| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 716 | 1800 | 38 | 22.5 | 135 | 26.0 | 4.00 | 4.40 | 5.39 | 0.40 | 0.99 | 1.39 | 38.38 | 135.43 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 717 | 2000 | 38 | 25.0 | 135 | 24.0 | 4.00 | 4.42 | 5.32 | 0.42 | 0.90 | 1.32 | 38.42 | 135.40 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 718 | 2200 | 38 | 27.0 | 135 | 21.5 | 4.01 | 4.42 | 5.37 | 0.41 | 0.95 | 1.36 | 38.45 | 135.36 | 328.07 | 121.92 | 103.64 | 432.070 | 1237.07 | 2879.07 | 6225.06 | 0.54 | 1.54 | 3.57 | 7.72 |
| 719 | 2400 | 38 | 29.0 | 135 | 19.5 | 4.01 | 4.47 | 5.47 | 0.46 | 1.00 | 1.46 | 38.48 | 135.33 | 368.43 | 108.57 | 92.28 | 493.429 | 1518.42 | 3800.42 | 8875.42 | 0.61 | 1.88 | 4.71 | 11.00 |
| 720 | 2600 | 38 | 31.0 | 135 | 17.0 | 4.00 | 4.44 | 5.30 | 0.44 | 0.86 | 1.30 | 38.52 | 135.28 | 352.29 | 113.54 | 96.51 | 468.290 | 1401.29 | 3405.29 | 7710.29 | 0.58 | 1.74 | 4.22 | 9.56 |
| 721 | 3600 | 38 | 41.5 | 135 | 6.0 | 4.01 | 4.49 | 5.30 | 0.48 | 0.81 | 1.29 | 38.69 | 135.10 | 384.57 | 104.01 | 88.41 | 517.570 | 1642.57 | 4233.56 | 10202.5 | 0.64 | 2.04 | 5.25 | 12.65 |
| 722 | 3800 | 38 | 43.5 | 135 | 4.0 | 4.01 | 4.59 | 5.40 | 0.58 | 0.81 | 1.39 | 38.73 | 135.07 | 465.27 | 85.97 | 73.08 | 647.270 | 2378.27 | 7130.27 | 20170.2 | 0.81 | 2.95 | 8.84 | 25.00 |
| 723 | 4000 | 38 | 45.5 | 135 | 1.5 | 4.02 | 4.53 | 5.26 | 0.51 | 0.73 | 1.24 | 38.76 | 135.03 | 408.78 | 97.85 | 83.17 | 555.780 | 1841.78 | 4965.77 | 12549.7 | 0.69 | 2.29 | 6.16 | 15.55 |
| 724 | 4200 | 38 | 47.5 | 134 | 59.0 | 4.02 | 4.54 | 5.20 | 0.52 | 0.66 | 1.18 | 38.79 | 134.98 | 416.85 | 95.96 | 81.56 | 568.849 | 1912.84 | 5233.85 | 13439.8 | 0.71 | 2.37 | 6.49 | 16.66 |
| 725 | 4400 | 38 | 49.5 | 134 | 57.0 | 4.01 | 4.40 | 5.04 | 0.39 | 0.64 | 1.03 | 38.83 | 134.95 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 726 | 4600 | 38 | 52.0 | 134 | 55.0 | 4.01 | 4.41 | 4.88 | 0.40 | 0.47 | 0.87 | 38.87 | 134.92 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 727 | 5000 | 38 | 56.0 | 134 | 50.5 | 3.25 | 3.67 | 3.91 | 0.42 | 0.24 | 0.66 | 38.93 | 134.84 | 336.14 | 119.00 | 101.15 | 444.140 | 1290.14 | 3046.14 | 6688.14 | 0.55 | 1.60 | 3.78 | 8.29 |
| 728 | 5200 | 38 | 58.0 | 134 | 48.0 | 2.64 | 3.03 | 3.58 | 0.39 | 0.55 | 0.94 | 38.97 | 134.80 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 729 | 5400 | 39 | 0.0 | 134 | 46.0 | 1.93 | 2.21 | 2.50 | 0.28 | 0.29 | 0.57 | 39.00 | 134.77 | 223.16 | 179.25 | 152.36 | 281.160 | 671.160 | 1303.16 | 2330.15 | 0.35 | 0.84 | 1.62 | 2.89 |
| 730 | 7500 | 39 | 21.5 | 134 | 22.5 | 2.62 | 3.12 | 3.40 | 0.50 | 0.28 | 0.78 | 39.36 | 134.38 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 731 | 7700 | 39 | 23.5 | 134 | 20.0 | 2.75 | 3.26 | 3.70 | 0.51 | 0.44 | 0.95 | 39.39 | 134.33 | 408.78 | 97.85 | 83.17 | 555.780 | 1841.78 | 4965.77 | 12549.7 | 0.69 | 2.29 | 6.16 | 15.55 |
| 732 | 7900 | 39 | 26.0 | 134 | 18.5 | 2.80 | 3.35 | 3.70 | 0.55 | 0.35 | 0.90 | 39.43 | 134.31 | 441.06 | 90.69 | 77.09 | 608.059 | 2136.06 | 6115.06 | 16478.0 | 0.76 | 2.65 | 7.58 | 20.42 |
| 733 | 8100 | 39 | 28.0 | 134 | 16.0 | 2.81 | 3.35 | 3.77 | 0.54 | 0.42 | 0.96 | 39.47 | 134.27 | 432.99 | 92.38 | 78.52 | 594.989 | 2058.98 | 5807.99 | 15401.9 | 0.74 | 2.55 | 7.20 | 19.09 |
| 734 | 8400 | 39 | 31.0 | 134 | 12.0 | 2.50 | 3.00 | 3.22 | 0.50 | 0.22 | 0.72 | 39.52 | 134.20 | 400.71 | 99.82 | 84.85 | 543.709 | 1773.70 | 4709.70 | 11714.7 | 0.68 | 2.20 | 5.84 | 14.52 |
| 735 | 8500 | 39 | 32.0 | 134 | 10.5 | 2.49 | 2.94 | 3.26 | 0.45 | 0.32 | 0.77 | 39.53 | 134.18 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 736 | JAPEX Y85-5 | | | | | | | | | | | | | | | | | | | | | | | |
| 737 | 0 | 38 | 15.0 | 135 | 34.0 | 3.96 | 4.19 | 5.00 | 0.23 | 0.81 | 1.04 | 38.25 | 135.57 | 182.81 | 218.81 | 185.99 | 226.809 | 504.809 | 917.809 | 1531.81 | 0.28 | 0.63 | 1.14 | 1.90 |
| 738 | 200 | 38 | 13.5 | 135 | 35.5 | 3.94 | 4.19 | 4.89 | 0.25 | 0.70 | 0.95 | 38.23 | 135.59 | 198.95 | 201.06 | 170.90 | 248.949 | 567.950 | 1060.94 | 1818.94 | 0.31 | 0.71 | 1.32 | 2.26 |
| 739 | 400 | 38 | 11.5 | 135 | 37.5 | 3.94 | 4.09 | 4.70 | 0.15 | 0.61 | 0.76 | 38.19 | 135.63 | 118.24 | 338.29 | 287.55 | 143.239 | 285.239 | 468.239 | 705.239 | 0.18 | 0.36 | 0.58 | 0.88 |
| 740 | 600 | 38 | 9.5 | 135 | 40.0 | 3.89 | 4.18 | 4.73 | 0.29 | 0.55 | 0.84 | 38.16 | 135.67 | 231.23 | 172.99 | 147.04 | 293.229 | 707.229 | 1393.22 | 2524.22 | 0.37 | 0.88 | 1.73 | 3.13 |
| 741 | 800 | 38 | 7.5 | 135 | 42.0 | 3.85 | 4.16 | 4.80 | 0.31 | 0.64 | 0.95 | 38.13 | 135.70 | 247.37 | 161.70 | 137.45 | 315.369 | 783.369 | 1584.36 | 2955.37 | 0.39 | 0.97 | 1.97 | 3.67 |
| 742 | 1000 | 38 | 5.0 | 135 | 44.0 | 3.80 | 4.10 | 4.51 | 0.30 | 0.41 | 0.71 | 38.08 | 135.73 | 239.30 | 167.16 | 142.08 | 304.299 | 745.299 | 1486.30 | 2732.30 | 0.38 | 0.93 | 1.85 | 3.39 |
| 743 | 1200 | 38 | 3.0 | 135 | 46.0 | 3.74 | 4.00 | 4.40 | 0.26 | 0.40 | 0.66 | 38.05 | 135.77 | 207.02 | 193.22 | 164.24 | 260.020 | 602.020 | 1138.02 | 1978.02 | 0.33 | 0.75 | 1.41 | 2.45 |
| 744 | 1400 | 38 | 1.0 | 135 | 48.5 | 3.69 | 4.01 | 4.98 | 0.32 | 0.97 | 1.29 | 38.02 | 135.81 | 255.44 | 156.59 | 133.10 | 326.440 | 823.440 | 1688.43 | 3193.43 | 0.41 | 1.02 | 2.10 | 3.96 |
| 745 | 1600 | 37 | 59.0 | 135 | 51.0 | 3.62 | 4.01 | 4.76 | 0.39 | 0.75 | 1.14 | 37.98 | 135.85 | 311.93 | 128.23 | 109.00 | 407.929 | 1135.92 | 2568.92 | 5387.93 | 0.51 | 1.41 | 3.19 | 6.68 |
| 746 | 1800 | 37 | 57.0 | 135 | 53.0 | 3.57 | 4.00 | 4.51 | 0.43 | 0.51 | 0.94 | 37.95 | 135.88 | 344.22 | 116.21 | 98.78 | 456.220 | 1345.21 | 3221.21 | 7181.22 | 0.57 | 1.67 | 3.99 | 8.90 |
| 747 | 2000 | 37 | 55.0 | 135 | 55.0 | 3.40 | 3.80 | 4.30 | 0.40 | 0.50 | 0.90 | 37.92 | 135.92 | 320.00 | 125.00 | 106.25 | 420 | 1186 | 2720 | 5793 | 0.52 | 1.47 | 3.37 | 7.18 |
| 748 | 2200 | 37 | 52.5 | 135 | 57.0 | 2.70 | 3.15 | 3.30 | 0.45 | 0.15 | 0.60 | 37.88 | 135.95 | 360.36 | 111.00 | 94.35 | 480.359 | 1459.35 | 3598.35 | 8273.36 | 0.60 | 1.81 | 4.46 | 10.25 |
| 749 | 2400 | 37 | 50.5 | 135 | 59.5 | 2.65 | 2.81 | 3.29 | 0.16 | 0.48 | 0.64 | 37.84 | 135.99 | 126.31 | 316.68 | 269.18 | 153.309 | 309.309 | 515.309 | 786.309 | 0.19 | 0.39 | 0.64 | 0.98 |

# Appendix

## *D: Isothermal Depth Estimation Program*

## Appendix-D

This program estimate the depth of some temperature. This program run on the Apple Macintosh. Following files need to run.




```
#include<stdio.h>

main()
{
float act, hf,tc, ondo, depth1, depth2;
FILE *fin, *fout, *fopen();
char inf[20], outf[20];
int count;

printf("\n\n\tPlease enter the file name of A/CT depth_Heatflow data.\n\t\7");
scanf("%s", inf);

printf("\n\n\tPlease enter the output file name.\n\t\7");
scanf("%s", outf);

fin=fopen(inf, "r");
fout=fopen(outf, "w");
count=1;
printf("\n\t");

while(1){
if((fscanf(fin, "%f\t%f", &act, &hf))==EOF) break;
depth1=1;
ondo=40;   /* Opal-A/CT transition temperature */

    while(1){
    depth2=act+depth1;
    tc=0.51109+0.0014757*depth2;
    ondo=((hf/tc)/1000)+ondo;
    if(ondo>=50){
```

```
                fprintf(fout, "%f\t", depth2);
                break;}
        depth1+=1;}

        while(1){
        depth2=act+depth1;
        tc=0.51109+0.0014757*depth2;
        ondo=((hf/tc)/1000)+ondo;
        if(ondo>=100){
                fprintf(fout, "%f\t", depth2);
                break;}
        depth1+=1;}

        while(1){
        depth2=act+depth1;
        tc=0.51109+0.0014757*depth2;
        ondo=((hf/tc)/1000)+ondo;
        if(ondo>=150){
                fprintf(fout, "%f\t", depth2);
                break;}
        depth1+=1;}

        while(1){
        depth2=act+depth1;
        tc=0.51109+0.0014757*depth2;
        ondo=((hf/tc)/1000)+ondo;
        if(ondo>=200){
                fprintf(fout, "%f\n", depth2);
                break;}
        depth1+=1;}

printf("*** Processing count *** %03d", count);
printf("\b\b\b\b\b\b\b\b\b\b\b\b\b\b\b\b\b\b\b\b\b\b\b\
b\b\b\b");
count+=1;
}
fclose(fin);
fclose(fout);
printf("\n\n\tEND\tEND\tEND\n");
}
```

# Appendix

*E: Physical Properties in Site 796*

# ODP Physical Properties Site 796

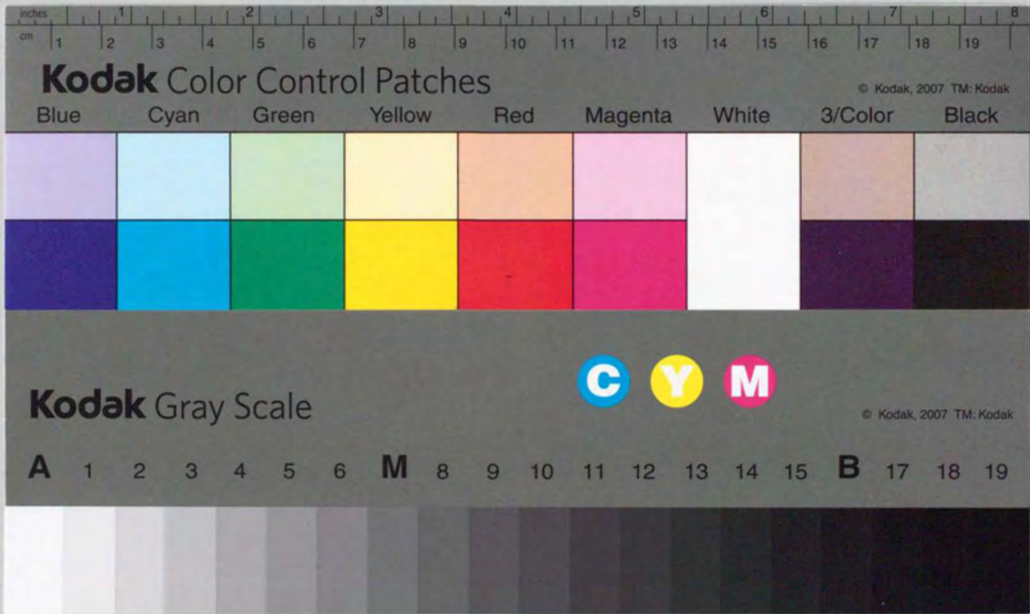
| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 1.0 | 1.60 | 2.54 | 73.60 | 47.13 | 2.79 |
| 1.9 | 1.53 | 2.58 | 77.20 | 51.69 | 3.39 |
| 2.1 | 1.62 | 2.57 | 77.50 | 49.01 | 3.44 |
| 2.6 | 1.53 | 2.55 | 75.30 | 50.42 | 3.05 |
| 3.6 | 1.68 | 2.80 | 78.20 | 47.69 | 3.58 |
| 4.2 | 1.59 | 2.70 | 76.30 | 49.16 | 3.21 |
| 5.7 | 1.64 | 2.59 | 83.80 | 52.35 | 5.18 |
| 7.2 | 1.63 | 2.64 | 71.60 | 45.00 | 2.52 |
| 8.7 | 1.58 | 2.68 | 77.70 | 50.38 | 3.48 |
| 10.2 | 1.57 | 2.65 | 75.60 | 49.33 | 3.09 |
| 11.7 | 1.70 | 2.67 | 65.00 | 39.17 | 1.86 |
| 13.8 | 1.59 | 2.59 | 71.50 | 46.07 | 2.51 |
| 15.0 | 1.64 | 2.81 | 71.40 | 44.60 | 2.49 |
| 16.1 | 1.66 | 2.61 | 67.60 | 41.72 | 2.08 |
| 23.3 | 1.57 | 2.62 | 74.50 | 48.61 | 2.92 |
| 24.8 | 1.80 | 3.13 | 70.90 | 40.35 | 2.43 |
| 26.2 | 1.65 | 2.61 | 69.00 | 42.84 | 2.22 |
| 27.7 | 1.59 | 2.56 | 75.60 | 48.71 | 3.10 |
| 29.3 | 1.62 | 2.50 | 70.30 | 44.46 | 2.37 |
| 30.6 | 1.52 | 2.48 | 77.40 | 52.17 | 3.43 |
| 31.2 | 1.59 | 2.39 | 77.00 | 49.61 | 3.34 |
| 32.7 | 1.68 | 2.76 | 75.60 | 46.10 | 3.10 |
| 32.7 | 1.61 | 2.67 | 75.00 | 47.73 | 2.99 |
| 34.2 | 1.61 | 2.58 | 78.20 | 49.76 | 3.59 |
| 34.2 | 1.50 | 2.39 | 79.00 | 53.96 | 3.75 |
| 35.7 | 1.50 | 2.39 | 79.00 | 53.96 | 3.75 |
| 36.3 | 1.76 | 2.54 | 68.50 | 39.87 | 2.17 |
| 40.2 | 1.76 | 2.58 | 65.40 | 38.07 | 1.89 |
| 40.8 | 1.59 | 2.60 | 75.50 | 48.65 | 3.08 |
| 41.5 | 1.59 | 2.52 | 73.10 | 47.10 | 2.71 |
| 42.3 | 1.60 | 2.54 | 73.70 | 47.19 | 2.81 |
| 42.3 | 1.55 | 2.51 | 76.80 | 50.76 | 3.30 |
| 43.7 | 1.71 | 2.62 | 69.30 | 41.52 | 2.26 |
| 43.7 | 1.46 | 2.45 | 80.10 | 56.21 | 4.02 |
| 45.3 | 1.72 | 2.60 | 67.50 | 40.21 | 2.08 |
| 45.3 | 1.58 | 2.67 | 76.20 | 49.41 | 3.20 |
| 46.7 | 1.61 | 2.81 | 76.00 | 48.36 | 3.17 |
| 48.5 | 1.60 | 2.63 | 75.70 | 48.47 | 3.12 |
| 49.7 | 1.64 | 2.54 | 73.50 | 45.92 | 2.77 |
| 50.8 | 1.54 | 2.48 | 76.20 | 50.69 | 3.20 |
| 51.4 | 1.64 | 2.51 | 70.50 | 44.04 | 2.40 |
| 52.3 | 1.64 | 2.77 | 75.90 | 47.41 | 3.14 |
| 53.8 | 1.51 | 2.39 | 73.50 | 49.87 | 2.77 |

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 55.3 | 1.64 | 2.55 | 74.60 | 46.60 | 2.94 |
| 56.2 | 1.39 | 2.14 | 83.40 | 61.47 | 5.01 |
| 58.2 | 1.65 | 2.61 | 68.90 | 42.78 | 2.22 |
| 59.7 | 1.56 | 2.65 | 76.50 | 50.24 | 3.26 |
| 60.5 | 1.63 | 2.60 | 69.70 | 43.81 | 2.30 |
| 62.5 | 1.66 | 2.68 | 69.20 | 42.71 | 2.24 |
| 69.4 | 1.62 | 2.65 | 74.20 | 46.92 | 2.88 |
| 70.1 | 1.68 | 2.46 | 69.50 | 42.38 | 2.28 |
| 79.3 | 1.61 | 2.47 | 75.10 | 47.79 | 3.02 |
| 80.8 | 1.51 | 2.35 | 73.50 | 49.87 | 2.77 |
| 88.5 | 1.76 | 2.72 | 61.70 | 35.92 | 1.61 |
| 91.9 | 1.62 | 2.51 | 75.30 | 47.62 | 3.05 |
| 93.6 | 1.47 | 2.50 | 76.50 | 53.32 | 3.25 |
| 94.4 | 1.62 | 2.39 | 73.80 | 46.67 | 2.82 |
| 108.6 | 1.60 | 2.58 | 70.30 | 45.01 | 2.36 |
| 109.7 | 1.56 | 2.57 | 72.80 | 47.81 | 2.67 |
| 111.6 | 1.73 | 2.55 | 60.20 | 35.65 | 1.51 |
| 113.2 | 1.71 | 2.58 | 64.20 | 38.46 | 1.79 |
| 114.1 | 1.86 | 2.51 | 53.00 | 29.19 | 1.13 |
| 118.2 | 1.60 | 2.60 | 69.70 | 44.63 | 2.30 |
| 119.7 | 1.58 | 2.57 | 71.90 | 46.62 | 2.56 |
| 121.2 | 1.58 | 2.61 | 70.60 | 45.78 | 2.40 |
| 122.3 | 1.59 | 2.53 | 70.50 | 45.43 | 2.39 |
| 127.9 | 1.54 | 2.49 | 71.40 | 47.50 | 2.50 |
| 129.4 | 1.63 | 2.51 | 65.20 | 40.98 | 1.88 |
| 137.5 | 1.64 | 2.51 | 68.80 | 42.98 | 2.20 |
| 139.0 | 1.90 | 2.62 | 49.20 | 26.53 | 0.97 |
| 140.6 | 1.57 | 2.51 | 71.00 | 46.33 | 2.44 |
| 142.0 | 1.50 | 1.84 | 75.40 | 51.50 | 3.06 |
| 147.2 | 1.59 | 2.35 | 70.50 | 45.43 | 2.39 |
| 148.7 | 1.77 | 2.52 | 70.30 | 40.69 | 2.36 |
| 150.2 | 1.56 | 2.46 | 72.90 | 47.88 | 2.68 |
| 151.7 | 1.58 | 2.36 | 71.20 | 46.17 | 2.47 |
| 153.2 | 1.58 | 2.37 | 69.50 | 45.07 | 2.28 |
| 154.7 | 1.60 | 2.44 | 68.20 | 43.67 | 2.15 |
| 156.8 | 1.50 | 2.31 | 72.60 | 49.59 | 2.65 |
| 158.3 | 1.52 | 2.30 | 69.30 | 46.71 | 2.26 |
| 159.8 | 1.60 | 2.26 | 69.70 | 44.63 | 2.30 |
| 161.3 | 1.62 | 2.43 | 66.80 | 42.24 | 2.01 |
| 166.3 | 1.46 | 2.23 | 75.90 | 53.26 | 3.15 |
| 167.3 | 1.45 | 2.21 | 75.50 | 53.34 | 3.08 |
| 176.0 | 1.53 | 2.65 | 23.30 | 15.60 | 0.30 |
| 177.5 | 1.52 | 2.44 | 73.50 | 49.54 | 2.78 |

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 179.0 | 1.52 | 2.44 | 73.50 | 49.54 | 2.78 |
| 180.5 | 1.63 | 2.36 | 61.50 | 38.65 | 1.60 |
| 182.0 | 1.53 | 2.33 | 69.10 | 46.27 | 2.23 |
| 183.0 | 1.54 | 2.38 | 70.40 | 46.83 | 2.38 |
| 185.7 | 1.57 | 2.51 | 72.40 | 47.24 | 2.62 |
| 187.2 | 1.85 | 2.54 | 52.70 | 29.18 | 1.11 |
| 188.7 | 1.55 | 2.36 | 70.30 | 46.47 | 2.37 |
| 190.2 | 1.53 | 2.55 | 77.00 | 51.56 | 3.36 |
| 191.4 | 1.67 | 2.48 | 65.10 | 39.94 | 1.86 |
| 195.4 | 1.66 | 2.45 | 67.10 | 41.41 | 2.04 |
| 196.9 | 1.70 | 2.71 | 73.50 | 44.29 | 2.77 |
| 198.4 | 1.66 | 2.45 | 68.30 | 42.15 | 2.15 |
| 199.9 | 1.65 | 2.47 | 69.60 | 43.22 | 2.29 |
| 201.7 | 1.49 | 2.39 | 77.90 | 53.56 | 3.52 |
| 202.9 | 1.66 | 2.32 | 63.90 | 39.44 | 1.77 |
| 205.1 | 1.79 | 2.55 | 58.50 | 33.48 | 1.41 |
| 206.0 | 1.85 | 2.45 | 59.50 | 32.95 | 1.47 |
| 214.8 | 1.51 | 2.33 | 73.70 | 50.00 | 2.80 |
| 224.8 | 1.79 | 2.51 | 60.30 | 34.51 | 1.52 |
| 225.9 | 1.84 | 2.41 | 58.10 | 32.35 | 1.39 |
| 233.6 | 1.88 | 2.56 | 57.30 | 31.23 | 1.34 |
| 243.5 | 1.79 | 2.57 | 61.90 | 35.43 | 1.62 |
| 253.0 | 2.59 | 2.73 | 20.30 | 8.03 | 0.25 |
| 255.1 | 1.94 | 2.47 | 49.80 | 26.30 | 0.99 |
| 262.9 | 2.00 | 2.57 | 50.00 | 25.61 | 1.00 |
| 265.7 | 1.86 | 2.44 | 52.10 | 28.70 | 1.09 |
| 266.4 | 2.05 | 2.68 | 47.20 | 23.59 | 0.89 |
| 282.5 | 1.90 | 2.52 | 51.60 | 27.82 | 1.07 |
| 283.3 | 1.94 | 2.50 | 49.40 | 26.09 | 0.98 |
| 292.4 | 1.91 | 2.57 | 55.00 | 29.50 | 1.22 |
| 293.6 | 1.92 | 2.43 | 50.10 | 26.73 | 1.00 |
| 294.6 | 1.99 | 2.41 | 50.70 | 26.10 | 1.03 |
| 301.1 | 2.07 | 2.90 | 66.30 | 32.81 | 1.97 |
| 312.1 | 2.10 | 2.60 | 48.50 | 23.66 | 0.94 |
| 321.1 | 2.11 | 2.48 | 39.50 | 19.18 | 0.65 |
| 322.1 | 2.06 | 2.45 | 48.90 | 24.32 | 0.96 |
| 323.8 | 2.02 | 2.35 | 39.80 | 20.19 | 0.66 |
| 324.3 | 1.91 | 2.39 | 48.80 | 26.18 | 0.95 |
| 325.1 | 1.98 | 2.52 | 53.50 | 27.68 | 1.15 |
| 326.7 | 2.10 | 2.47 | 47.30 | 23.08 | 0.90 |
| 330.4 | 2.66 | 2.68 | 12.70 | 4.89 | 0.14 |
| 332.0 | 2.16 | 2.66 | 45.20 | 21.44 | 0.83 |
| 340.9 | 1.94 | 2.58 | 50.20 | 26.51 | 1.01 |

# ODP Physical Properties Site 796

| Depth | Bulk Density | Grain Density | Porosity | Water Contents | Void Ratio |
|---|---|---|---|---|---|
| 349.0 | 2.10 | 2.58 | 43.80 | 21.37 | 0.78 |
| 359.7 | 2.06 | 2.73 | 50.30 | 25.02 | 1.01 |
| 368.2 | 2.55 | 2.79 | 20.00 | 8.04 | 0.25 |
| 378.0 | 2.12 | 2.75 | 44.40 | 21.46 | 0.80 |
| 388.7 | 2.10 | 2.64 | 44.80 | 21.86 | 0.81 |
| 397.9 | 2.73 | 2.63 | 18.70 | 7.02 | 0.23 |
| 398.5 | 2.04 | 2.71 | 38.80 | 19.49 | 0.64 |
| 399.0 | 1.93 | 2.57 | 53.90 | 28.61 | 1.17 |
| 407.4 | 2.12 | 2.63 | 43.80 | 21.17 | 0.78 |
| 416.7 | 2.66 | 2.73 | 14.80 | 5.70 | 0.17 |
| 428.3 | 1.94 | 2.61 | 57.80 | 30.52 | 1.37 |
| 432.1 | 2.23 | 2.67 | 39.10 | 17.96 | 0.64 |
| 433.2 | 2.20 | 2.75 | 43.60 | 20.30 | 0.77 |
| 434.3 | 2.13 | 2.61 | 42.60 | 20.49 | 0.74 |
| 437.2 | 2.14 | 2.69 | 39.10 | 18.72 | 0.64 |
| 437.7 | 2.26 | 2.64 | 42.10 | 19.08 | 0.73 |
| 446.5 | 2.19 | 2.70 | 39.00 | 18.24 | 0.64 |
| 447.7 | 2.30 | 2.80 | 39.80 | 17.73 | 0.66 |
| 449.3 | 2.28 | 2.84 | 41.80 | 18.78 | 0.72 |
| 450.3 | 2.26 | 2.87 | 45.30 | 20.54 | 0.83 |
| 451.8 | 2.24 | 2.79 | 41.90 | 19.16 | 0.72 |
| 452.5 | 2.28 | 2.84 | 35.20 | 15.82 | 0.54 |
| 455.7 | 2.24 | 2.69 | 35.50 | 16.24 | 0.55 |
| 457.6 | 2.55 | 2.84 | 29.60 | 11.89 | 0.42 |
| 459.4 | 2.31 | 2.66 | 39.30 | 17.43 | 0.65 |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