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ABSTRACT

A NCDC data set comprised of 230,202 oceanographic stations representing all regions of the world ocean was statistically analyzed for temperature and sigma-t relationships with nitrate, phosphate or silicic acid. Six cubic regressions were computed for each ten degree square of latitude and longitude containing adequate data. World maps display the locations that allow the prediction of plant nutrient concentrations from temperature or sigma-t within the limits of selected subjective and objective criteria. Geographic coverage improves along the sequence: nitrate, phosphate and silicic acid and is better for sigma-t than for temperature. Contour maps of the approximate temperature or sigma-t at which nitrate, phosphate or silicic acid are no longer measurable in a parcel of water are generated based on a percentile analysis of the temperature or sigma-t at which less than a selected amount of plant nutrient occurs. These regression and percentile results are stored on magnetic tape in tabular form. The analyses summarizes into the global potential to predict plant nutrient concentrations from remotely sensed temperature or sigma-t and emphasize the latitudinally and longitudinally changing phytoplankton growth environment in present and past oceans.

INTRODUCTION

Temperature versus salinity (T-S) plots have long been used to characterize the different water masses in the world ocean. Mamayev (1975) has traced the history of the technique to Forch et al. (1902) who proposed an equation of state of sea water and Helland-Hansen (1912) who constructed a T-S diagram on which he plotted the real T-S relations of the waters of the oceans. Plant nutrients (PN) including nitrate (N), phosphate (P) and silicic acid (Si) have been applied to water mass studies relatively recently.

Aston (1980) has provided a review of plant nutrient relationships with salinity (S-PN) in estuaries. The scatter plots are primarily used to determine whether plant nutrients act conservatively as river water mixes with seawater. The exact pattern observed depends on the environmental conditions in each estuary. These studies suggest that salinity may be a useful predictor of plant nutrients that enter coastal water from rivers. In ocean regions beyond the influence of rivers, salinity does not usually exhibit sufficient variability over adequate spatial and temporal scales to serve as a good predictor of plant nutrient concentrations. Temperature and sigma-t are the conservative physical factors of choice under normal oceanic conditions.

According to Stefansson & Atkinson (1971a), Cooper (1952) was probably the first to suggest the use of silicic acid in identifying certain deep-water masses which are difficult to distinguish by means of their T-S characteristics. The temperature-silicic acid (T-Si) or the sigma-t-silicic acid (σ-Si) relationships have been used to identify water masses in the Antilles Arc region (Richards, 1958), the North Atlantic and Western Equatorial Atlantic (Metcalf, 1969), the Western Mid-Atlantic (Stefanson and Atkinson 1971a; 1971b) and several other regions including the Gulf of Mexico and the Southern Ocean (W. Nowlin, personal communication). Several GEOSECS

Program (Craig and Turekian, 1980) investigators have used various plant nutrient or derived plant nutrient parameters (i.e. "NO") as conservative markers of different water masses (Broecker, 1974) and have inferred the contribution of different water masses to a given parcel through water mass end-member interpolations (Broecker and Takahashi, 1980; Chung, 1980; Broecker et al. 1980; Broecker and Peng 1982).

Oceanographers interested in water mass identity and propagation rountinely avoid the upper 200 m of the water column because of the complexities inherent in the ocean layer affected by the atmosphere and by the enhanced biological activity. Strickland et al. (1970) were probably the first to point out the surprisingly conservative nature of the temperature -plant nutrient (T-PN) relationship in near-surface water and to discuss the dynamic dependencies of the correlation. Nearly all of the data collected during the early weeks (May to mid-July) of their program in La Jolla Bight lay near a single curve from which one could predict plant nutrient concentration almost to within experimental accuracy, irrespective of how deep in the water column a given temperature was encounted. Data from later weeks deviated somewhat from the initial curve. Strickland et al. (1970) have stated that the relationship between plant nutrient depletion and the heating of the water column cannot be expected to be exact and must depend upon the amount and activity of plankton in the water.

In recent years other oceanographers have used T-PN, sigma-t <u>versus</u> plant nutrient (σ-PN) or other plant nutrient correlations that include the upper 200 m of the water column for various purposes in several locations off the California coast. Kamykowski (1973) has provided a temperature <u>versus</u> nitrate (T-N) scatter plot that is composed of 12 months of data collected from a 40 m water column at a station in La Jolla Bight. The range of nitrate at any temperature below the temperature at which nitrate depletes (~14° C) is generally less than 8 μM. Lower nitrate concentrations occur at a given temperature in January-June than in July-December. Eppley et al. (1979) have used the range of nitrate concentrations at a given sigma-t in σ-N plots to estimate the possible role of horizontal eddy diffusion in contributing to nitrate flux in the Southern California Bight. Station differences in the σ-N relationships increased as the distances between stations increased over the greater than 1° square grid of stations. As earlier suggested by Zentara and Kamykowski (1977), Traganza et al. (1983) have used T-PN relationships to predict plant nutrient distribution patterns off Northern California based on temperature determined from satellite infrared images and has applied these plant nutrient patterns to the interpretations of ocean color images of chlorophyll from CZCS imagery.

Off the Atlantic coasts of Canada and the United States, Smith (1978), Lee et al. (1981) and Atkinson et al. (1982) have used various plots of more easily measured physical or chemical factors versus plant nutrients to predict plant nutrient concentration. Long term mooring records of temperature, salinity, or oxygen combined with current meter velocities were used in conjunction with plant nutrient regressions to compute a time-series of probable plant nutrient flux on the Scotian, the Georgia and the North Carolina shelves.

In upwelling areas off South America and Africa, Friederich and Codispoti (1979) and Tregeur and LeCorre (1979) have discussed the enrichment effects of local plant nutrient regeneration on the concentrations of nitrate, phosphate and silicic acid at the inshore end of a cross-shelf transect. Codispoti (1982) has stated that T-N and/or S-N plots show that the source waters of upwelling have concentrations that are higher than offshore waters with similar temperatures and salinities. Friederich and Codispoti (1981) have shown a similar enrichment occurring along the longshore path of the poleward undercurrent that is the source of the upwelling waters off Peru. The σ-PN relationships can exhibit complex patterns in this area. During July to October 1976, the 26.0 sigma-t surface below 40 m was characterized by a nitrate range from 11 to 22 μM and by a silicic acid range from 7 to 18 μM. During March to May 1977 the ranges were 16 to 32 μM for nitrate and 6 to 36 μM for silicic acid. A times-series station at midshelf occupied during May 1976 showed a fluctuation of 9 μM in nitrate and 8 μM in silicic acid on the 26 sigma-t surface during a 24 hr period. This Peruvian coastal area is influenced by unusually strong denitrification and by a complex intermingling of water masses (equatorial and subantarctic) with very different hydrographic and plant nutrient characteristics. The observed plant nutrient variability may be extreme but it does emphasize the caution that must be exercised in the interpretation of plant nutrient relationships with temperature, salinity or sigma-t. In contrast, Voituriez and Herbland (1984) have suggested that the seasonal stability in the nitrate/temperature linear relationship observed in the nitracline of the Gulf of Guinea indicates an equilibrium between physical and biological processes in the region.

Zentara and Kamykowski (1977) have compiled a data set along the west coast of North and South America that allowed the generation of temperature versus nitrate, phosphate and silicic acid plots. Several trends were evident: 1) the plant nutrient concentration generally increased linearly with decreasing temperature for each block within the depth limits of the data set (ocean bottom or the depth below which nitrate remained constant); 2) the predicted plant nutrient depletion temperature decreased with increasing latitude from the equator; and, 3) actual nitrate depletion temperatures occurred throughout the northern hemisphere, but were less likely to occur south of 45° S; silicic acid depletion temperatures occurred south of 45° S. This larger data set verified the coherent latitudinal applicability of T-PN relationships. The area studied, however, was chosen for its relatively simple physics and geology and did not consider the complexities of large river outflow, broad continental shelves, and large scale fronts. The latter areas may offer special problems due to altered plant nutrient ratios and the physical and chemical effects caused by the proximate sediment interface and by complex water mass structure.

The present paper provides T-PN and σ-PN analyses of a global data set obtained from NODC. This analysis provides a global view of the present capability to predict plant nutrient concentration or plant nutrient depletion from temperature or sigma-t using a slightly modified NODC data set.

METHODS

Twenty magnetic tapes in Station Data II format containing 230,202 oceanographic stations with at least one plant nutrient (nitrate, phosphate or silicic acid) represented were obtained from the National Oceanographic Data Center (NODC). Each ocean area was successively processed through the sequence of programs listed in Table 1 in which JCL refers to Job Control Language, SAS refers to the Statistical Analysis System and CAMIVA refers to the Cartographic Automatic Mapping System (Version IV-A). The reduced data sets created by OCEAN were limited by depth (<1000 m), temperature (-5 to 35° C), salinity (28 to 38 ppt), and appropriate plant nutrient concentration (nitrate -0 to 40 μM; phosphate -0 to 3.5 μM, or silicic acid -0 to 200 μM). Scatter plots of temperature or sigma-t versus nitrate, phosphate or silicic acid were used to assign subjective values of overall data quality.
The possible data quality symbols were: 'X' -data generally fell along a main

line trend that was consistent with that expected from surrounding TENSQs (10°Lat x 10°Lon); 'M' -a relatively large number of data points compared to the number in a TENSQ deviated from the expected main line trend apparently as a result of decimal point errors; and 'B' -no expected main line trend was discernible. Only TENSQs designated 'X' were considered for this paper. No attempt was made to correct suspect data. The statistical analyses performed using the SAS procedures (SAS Institute Inc., 1982) included cubic regression calculations with associated statistics including the variance-covariance table, estimates of means and ranges for the variables used in the cubic regressions and percentile determinations of the temperature or sigma-t values associated with plant nutrient levels below a selected level ($N<5$; $P<1$; $Si<10$). The levels were chosen as a compromise based on a survey of the data and they certainly work better in some regions (i.e. lower latitudes) than in others. These percentiles provide a mechanism for estimating the temperature or sigma-t at which the different plant nutrients tend to unmeasurable concentrations. The 50th percentile approximates this ideal within the range of the main contour intervals of 5°C for temperature or 1 unit for sigma-t. This amount of error is considered acceptable for the global comparisons in this paper but must be refined for actual application to a given region.

RESULTS

Table 2 provides a listing of the factors recorded in the six final tables for the temperature or sigma-t versus nitrate, phosphate or silicic acid relationships that are considered in this paper. In addition, the variance-covariance tables are also available to allow the calculation of confidence limits for predicted plant nutrients concentrations at a selected temperature or sigma-t in a given TENSQ. These data sets are stored on magnetic tape at North Carolina State University. Figure 1 provides examples of the range of scatter plots chosen as suitable for predicting plant nutrient concentration based on four criteria: 1) data point number (i.e., TNNC) > 10; 2) subjective data quality (i.e. TNQUAL) = 'X'; 3) adjusted r^2 (i.e. TNARC) > 0.5; and, 4) root mean square error (i.e. TNEC) < 6 (N), 0.4 (P) or 20 (Si). The last criteria was chosen as the mid-range of error in each plant nutrient data set. The cubic regression fits are superimposed over the data. The entries for these scatter plots in the final tables are respectively listed in Table 2 (except for variance-covariance matrix).

Figures 2-4 provide map summaries of the TENSQs with adequate data to allow prediction of nitrate, phosphate or silicic acid, respectively, from temperature (upper) or sigma-t (lower) within the criteria mentioned above. For temperature or sigma-t, the geographic coverage is least for nitrate, intermediate for phosphate and most for silicic acid. The region bracketed between 40° N and 60° S is most suitable for plant nutrient predictions based on temperature. Plant nutrient predictions based on sigma-t are useful into higher latitudes. Several poorly represented regions (i.e. the U.S. east coast) may require reduced spatial groupings of data (i.e. 1° Lat x 1° Lon or smaller) to survive the selected criteria because of juxtapositioned water masses with different temperature or sigma-t <u>versus</u> plant nutrient signatures.

Figures 5-7 provide contour maps of the approximate temperature (upper) or sigma-t (lower) at which nitrate, phosphate or silicic acid respectively decline to unmeasurable concentrations using classical nutrient analysis techniques (Strickland and Parsons, 1968). These data represent only the TENSQs that are characterized by the subjective criteria 'X' and that contain more than 10 data points below the selected low plant nutrient criterion. The contours represent the 50th percentile of temperature (upper) or sigma-t (lower) below these plant nutrient criteria within the acceptable TENSQs for each plant nutrient.

Figure 8 compares the latitudinally changing temperatures along the west coasts of North and South America for nitrate (Figure 5) and silicic acid (Figure 7) with those given in Zentara and Kamykowski (1977). The overall patterns are quite similar, although specific latitudes exhibit significant temperature differences. This can be attributed to the interaction between the TENSQ boundaries relative to the longitude of the coast line; the large TENSQ area can incorporate more or less offshore water compared to the data in Zentara and Kamykowski (1980).

Since the temperature and sigma-t contours in Figures 5-7 represent plant nutrient depletion, they are generally symmetrical around the equator and depict the late growth season condition in both hemispheres. The contours tend to be compressed toward the equator in the eastern parts of each ocean and toward the poles in the western part of each ocean. The warmest temperatures of plant nutrient depletion occur in the eastern Indian and western Pacific Oceans. This region is also characterized by the lowest sigma-t values of plant nutrient depletion as a result of the abundant rainfall and river runoff. The North Atlantic generally has warmer but denser contour values than the North Pacific. The Southern Ocean exhibits generally symmetrical contours around Antarctica that are occasionally distorted by blocking land masses. The silicic acid contours tend to be colder and denser than those of nitrate or phosphate at the same high southern latitudes.

DISCUSSION

The NODC data set is an oceanographic resource that has the potential to provide global views of different factors and their interactions. Unfortunately, the data set is compromised by several sources of error that limit this potential. The results presented in this paper use both subjective and objective criteria to circumvent the obvious errors. Alternate criteria can be applied to the refined data set derived from the statistical analysis to yield maps either more or less stringently controlled. The present criteria demonstrate that useful information can be extracted from the NODC data set and the potential utility of the NODC data set for examining plant nutrient relationships with temperature and sigma-t.

The cubic regressions of temperature or sigma-t versus nitrate, phosphate or silicic acid for each TENSQ in Figures 2-4 can be used to predict plant nutrient concentrations. The required estimates of temperature or sigma-t can come from various sources including buoy, airplane or satellite mounted sensors. Traganza et al. (1983) have demonstrated this application for satellites and have used the added insight to more completely interpret CZCS ocean color determinations of chlorophyll. The cubic equations derived in the present analysis can be similarly applied to data such as that provided by Shannon et al. (1984). These investigators presented contours of remotely sensed surface temperature and chlorophyll collected off southwestern South Africa during February 1980. This location occurs in TENSQ 500 which is characterized by the following temperature-dependent cubic regressions:

$$N = 37.15 - 0.21T - 0.24T^2 + 0.008T^3 \quad r^2 = 0.92 \quad RMSE = 3.42$$

$$P = 1.48 + 0.35T - 0.05T^2 + 0.001T^3 \quad r^2 = 0.58 \quad RMSE = 0.42$$

$$Si = 41.46 - 4.56T - 0.17T^2 - 0.002T^3 \quad r^2 = 0.39 \quad RMSE = 9.13$$

Since all relationships are subjectively rated 'X', the error term (>0.40) prevents the appearance of this phosphate relationship in Figure 3 and the adjusted r^2 term (<0.5) eliminates this silicic acid relationship in Figure 4. The nitrate relationship is well within the criteria used in this paper.

Depending on the standards selected by the investigator, the nitrate or all of these equations could be used to supplement the published temperature contours with derived plant nutrient contours that would help specify the future growth potential of the measured chlorophyll.

The present analysis of the NODC data set is not the best choice to predict plant nutrients from temperature in a given local study except if concurrent plant nutrient measurements are unavailable or impossible. Based on the present analysis, however, plant nutrient concentrations can be uniquely predicted from temperature over broad geographic regions. The extent of these regions for the different plant nutrients is reasonably delineated in Figures 2-4. Each matrix of regression equations provides a potential capability to generate global or ocean basin maps of plant nutrient concentrations based on routine surveillance of surface temperature from satellites. This capability can eventually contribute to the routine surveillance of chlorophyll as primary production in the world ocean (Perry, 1982). Eppley et al. (1985) have stated that plant nutrients are one of the factors that control photosynthesis per chlorophyll and that the variation in the relationship between primary production and chlorophyll that is explained by temperature may be partly based on plant nutrient relationships with temperature.

The plant nutrient predictions based on sigma-t are generally more reliable and apply over a broader geographic area than those based on temperature. The sigma-t based relationships may eventually be compatible with satellite-sensed determinations if salinity can be remotely determined. Alternately, these sigma-t based relationships provide a mechanism for interpreting past or future mooring data as demonstrated by Atkinson et al. (1982). For the latter purpose, however, local concurrent calibration will usually be better than the NODC relationships alone. The NODC data can be used to place local calibration in a spatial context.

Figures 5-7 provide approximate contours of the temperatures and sigma-t values at which nitrate, phosphate and silicic acid are no longer measurable in the world ocean. These contours supplement the cubic regressions represented in Figures 2-4 and demonstrate the dependence of the plant nutrient relationships with temperature or sigma-t on the large scale oceanographic processes. These processes must include the global seasonal cycle of incident solar radiation and its effect on evaporation-precipitation and on wind, the major currents associated with surface and deep circulation, and the location of the continental land masses and their associated river systems. More local effects include the average environmental conditions that determine the seasonal upper mixed layer stratification sequence and the conditions that affect phytoplankton growth. These contours attest to the ability of organisms to maintain a high level of biological activity over a broad range of temperature and sigma-t conditions determined according to physical laws. This biological activity is adequate to drive near-surface plant nutrient concentrations to unmeasurable levels over broad geographic expanses of the world ocean.

These contours also emphasize the spatial and temporal application of these relationships as factors in phytoplankton competition and community succession (Tilman et al., 1981). This temperature, sigma-t and plant nutrient interaction combined with latitudinal patterns of other biologically significant factors like day length, light intensity, and mixed layer depth advances the conceptual view of the coordinated environmental factors affecting planktonic phytogeography (Smayda, 1980). Recall, however, that several investigators (i.e. Strickland et al. 1970) have emphasized that seasonal adjustments between physical and biological processes can alter the local expression of these relationships within confined but measurable limits.

Finally, these contours initiate paleoceanographic speculation concerning variability of the planktonic growth environment during various stages of the earth's history. CLIMAP (1981) has provided a seasonal representation of the sea-surface temperatures during a glacial period based on a factor analysis of the abundance of organism remains in the underlying sediment. Although the average temperature difference from the present condition is small (~1.5° C), the glacial temperature can range 10° C lower at certain geographic locations. The plant nutrient relationships with temperature and sigma-t provide an added dimension to the causal factors that allow organism abundances to yield temperature information. This is especially true when interpreted in light of the complex interactive effects that these factors have on phytoplankton growth (Goldman, 1977), nutrient uptake (Goldman, 1979) and behavior (Walsby and Reynolds, 1980; Bienfang and Harrison, 1984; Cullen and Horrigan, 1981; Kamykowski, 1981).

CONCLUSIONS

The statistical analysis of temperature and sigma-t relationships with nitrate, phosphate and silicic acid using the NODC data base demonstrates the existence of a global prediction capability and of a diverse global texture of temperature, sigma-t and plant nutrient patterns acting on phytoplankton processes. Plant nutrient concentrations can be predicted based on temperature or sigma-t with varying amounts of certainty depending on the complexity of water masses in the region and on the quality of the existing data. These predictions can contribute to the interpretation of the satellite chlorophyll data as primary production. Latitudinal and longitudinal variations in these relationships as exemplified by the approximate temperature or sigma-t values at which plant nutrients deplete can be related to the matrix of global environmental processes and to the ability of phytoplankton to adapt to the resulting range of environmental conditions. These contour maps of the temperature or sigma-t at which nitrate, phosphate or silicic acid deplete provide insight into present and paleoceanographic phytogeography.

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TABLE 1 - List of the program sequence applied to each ocean area

PROGRAM	SOURCE	FUNCTION
COPYDCTP	JCL	Copies the NODC data set for a given ocean area to a private disk (AREA).
OCEAN	SAS	Creates two modified SAS data sets; one contains the general information about each station (LOG); the other contains the depth profile information from each station (WATER).
SCATTER	SAS	Sorts the WATER data set according to 10° Canadian Square designation and provides plots of temperature or sigma-t versus nitrate, phosphate or silicic acid.
REGRESC	SAS	Computes cubic regressions for temperature or sigma-t versus nitrate, phosphate or silicic acid; Calculates means and percentiles for selected data subsets. Six versions - one for each relationship.
TABLE	SAS	Corrects errors in the preliminary Table from COMBINE. Six versions-one for each relationship.
WMSYM	SAS	Creates a Fortran compatible data set for selected variables. Several versions depending on variable.
WORLDMAP	CAMIVA	Superimposes specific variables from WMSYM on a world map.

TABLE 2 - Representative list of the output terms in the final table resulting fromt the statistical analysis of temperature versus nitrate data.

		VARIABLE	SAMPLE SETS	
AREA	-	NODC ocean area designation	4	3
TENSQ	-	Canadian square number for 10° longitude by 10° latitude	426	715
LAT	-	mid-latitude of the TENSQ; south is negative	-45	-15
LON	-	mid-longitude of the TENSQ, east is negative	-115	135
TNNC	-	number of nitrate data points in the TENSQ and the number of points used to compute the cubic regression	105	356
TNTL	-	lowest nitrate temperature in the TENSQ	2.9	4.4
TNTM	-	mean nitrate temperature in the TENXSQ	9.7	17.9
TNTH	-	highest nitrate temperature in the TENSQ	17.6	28.1
TNIC	-	nitrate intercept of the cubic regression	18.15	49.74
TN1SC	-	first order slope coefficient of cubic regression	3.69	-3.53
TN2SC	-	second order slope coefficient of cubic regression	-0.67	0.04
TN3SC	-	third order slope coefficient of cubic regression	0.02	0.0007
TNEC	-	root mean square error of the cubic regression	5.44	1.55
TNARC	-	adjusted r^2 for cubic regression	0.53	0.99
TNQUAL	-	a subjective value of overall data quality	x	x
TNNL	-	lowest nitrate in TENSQ	0.2	0.0
TNNM	-	mean nitrate in TENSQ	12.2	10.2
TNNH	-	highest nitrate in TENSQ	37.4	36.9
TLNTC	-	low nitrate cirterion for temperature of nitrate depletion	5	5
TLNTN	-	number of temperatures with nitrate levels below criterion	20	214
TLNT25	-	25th percentile temperature with nitrate levels below criterion	9.4	22.4
TLNTM	-	50th percentile temperature with nitrate levels below criterion	11.6	25.2
TLNT75	-	75th percentile temperature with nitrate levels below criterion	17.0	26.2

FIGURE CAPTIONS

Figure 1: Sample scatter plots demonstrating the range of acceptable data (top: best, bottom: worst) and cubic regression fits included in the present analysis.

Figure 2: World maps of the 10° squares of latitude and longitude that contain acceptable data and cubic regression fits for temperature *versus* nitrate (top) and sigma-t *versus* nitrate (bottom) based on specified selection criteria. The 'X' marks over continental areas represent coastal regions within the bounds of the 10° square.

Figure 3: Same as Figure 2 for temperature *versus* phosphate (top) and sigma-t *versus* phosphate (bottom).

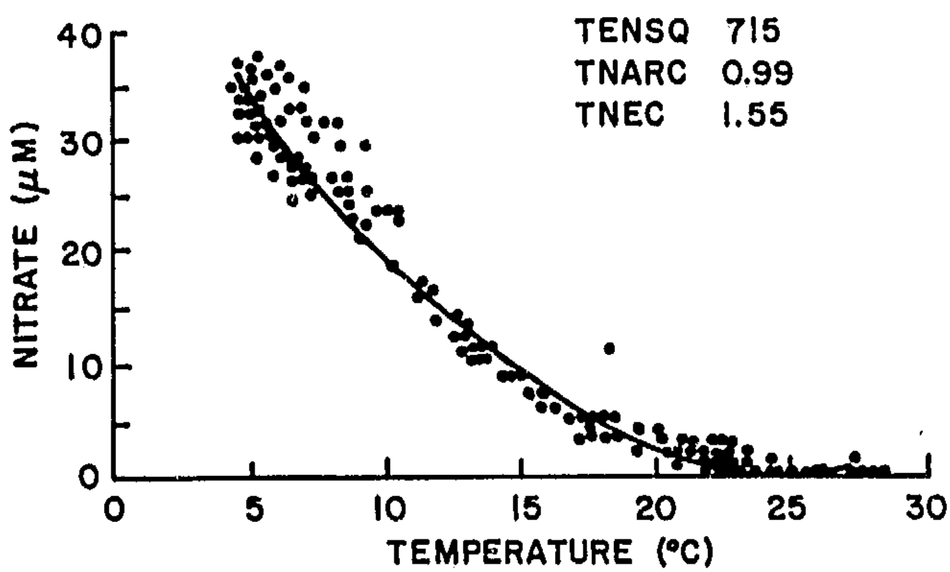
Figure 4: Same as Figure 2 for temperature *versus* silicic acid (top) and sigma-t *versus* silicic acid (bottom).

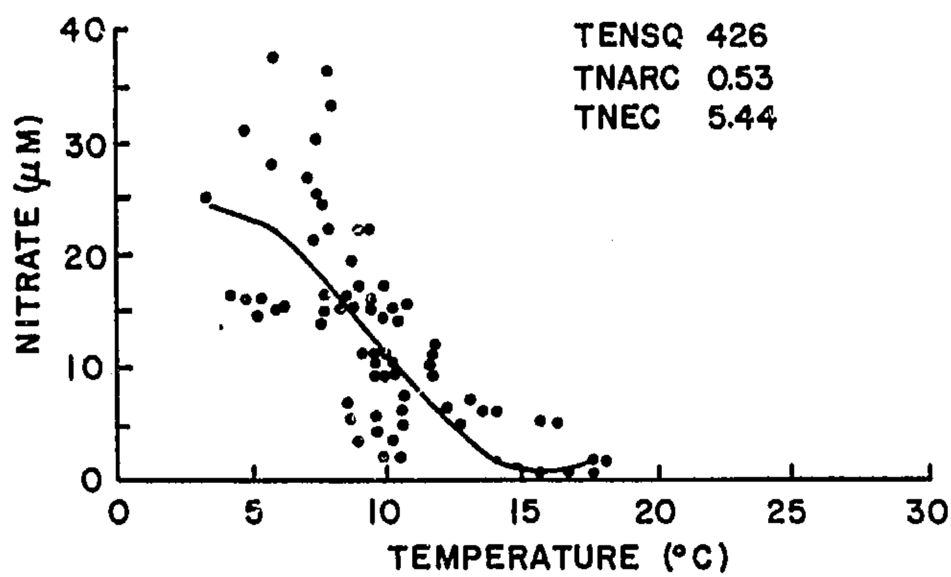
Figure 5: Contour maps of the approximate temperature (top) or sigma-t (bottom) at which nitrate approaches unmeasurable concentrations in the world ocean. The cross hatched area in the temperature plot marks the 27°C contour.

Figure 6: Same as Figure 5 for phosphate.

Figure 7: Same as Figure 5 for silicic acid.

Figure 8: A comparison of the temperatures at which nitrate or silicic acid approach unmeasureable concentrations along the west coasts of North and South America from Figure 5 (top) and Figure 7 (top), respectively, and from the data in Zentara and Kamykowski (1977).


TENSQ 715
TNARC 0.99
TNEC 1.55
NITRATE (μM)
40
30
20
10
0
0
5
10
15
20
25
30
TEMPERATURE (°C)


TENSQ 426
TNARC 0.53
TNEC 5.44
NITRATE (μM)
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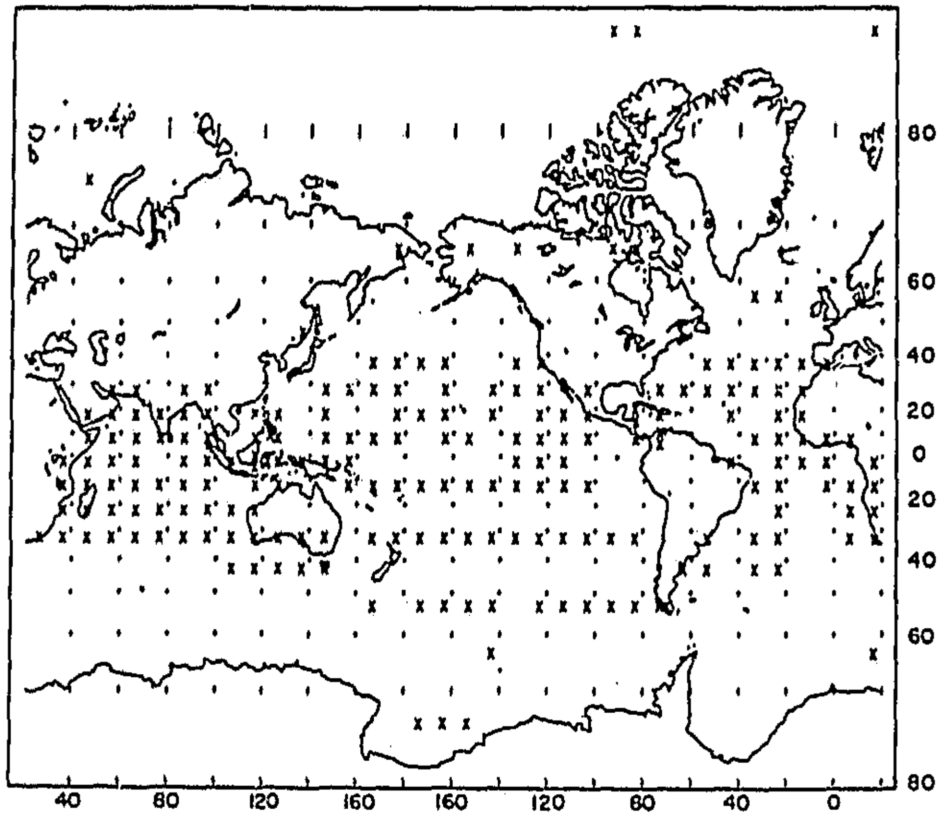
30
20
10
0
0
5
10
15
20
25
30
TEMPERATURE (°C)



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80
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120
80
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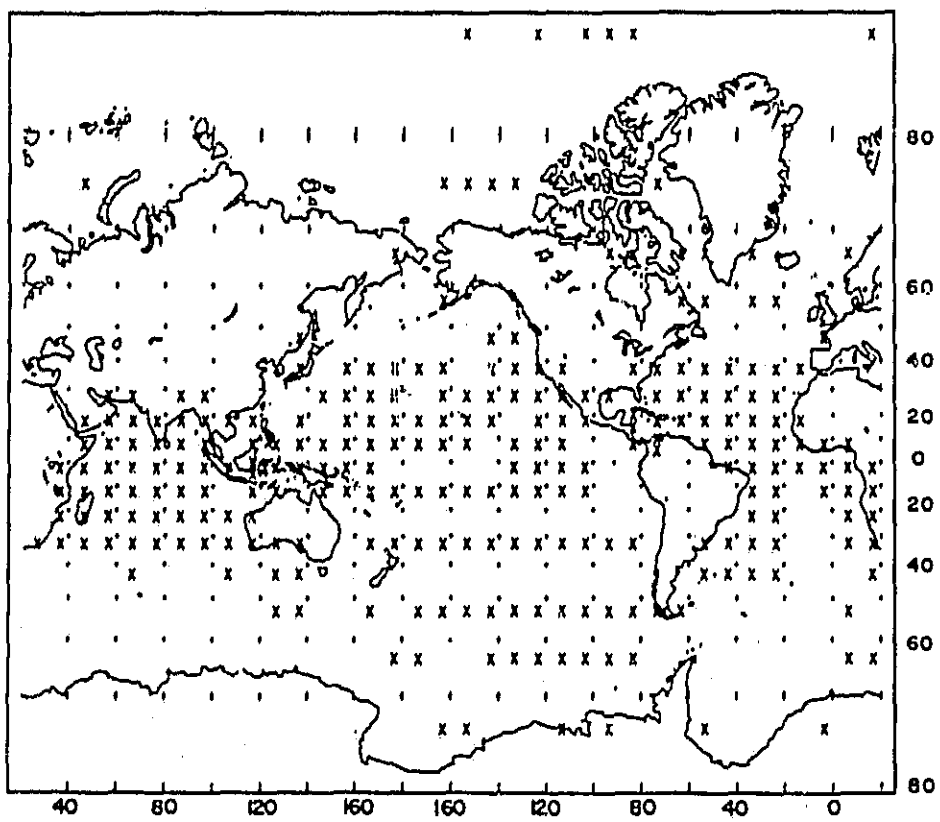

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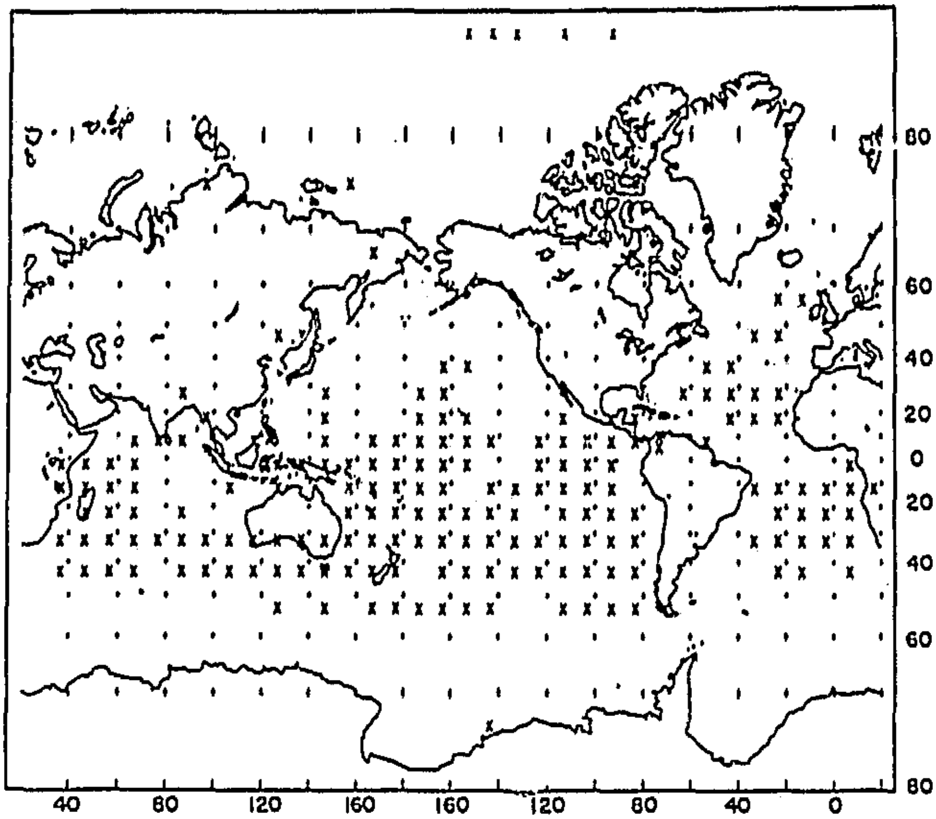
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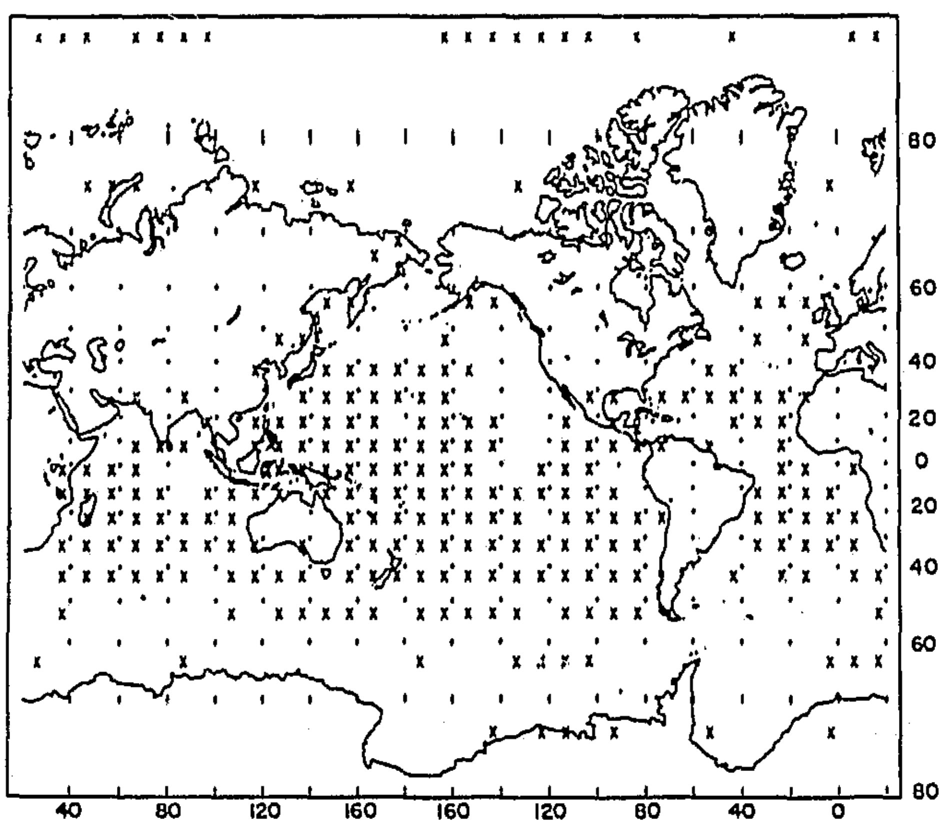
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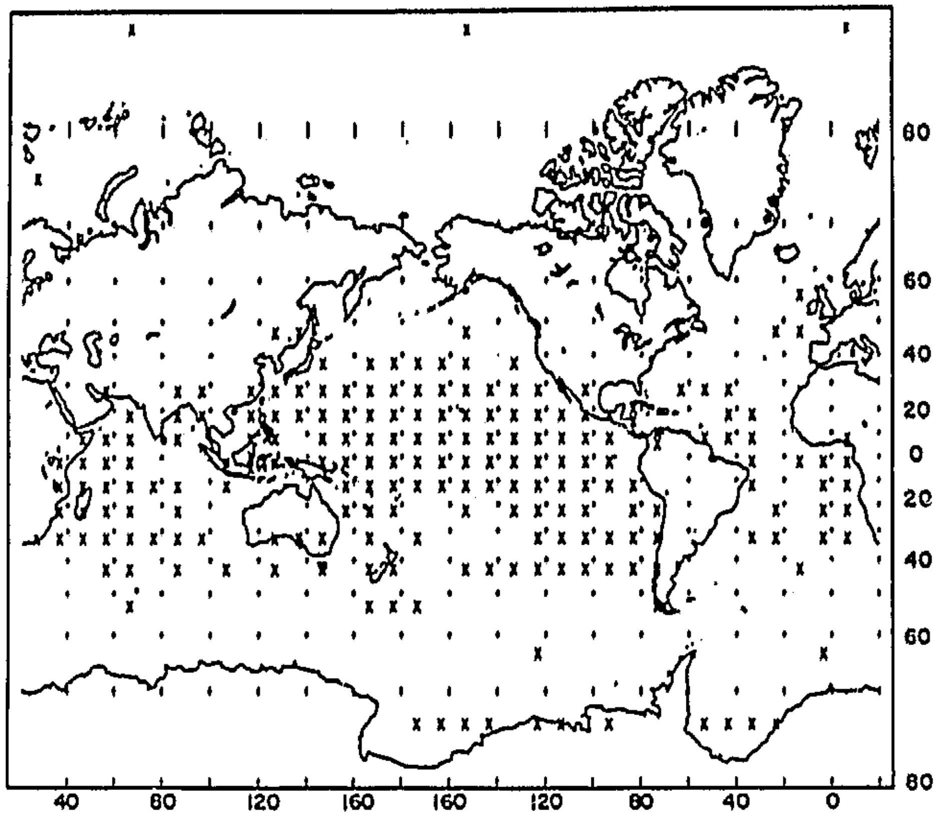
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120
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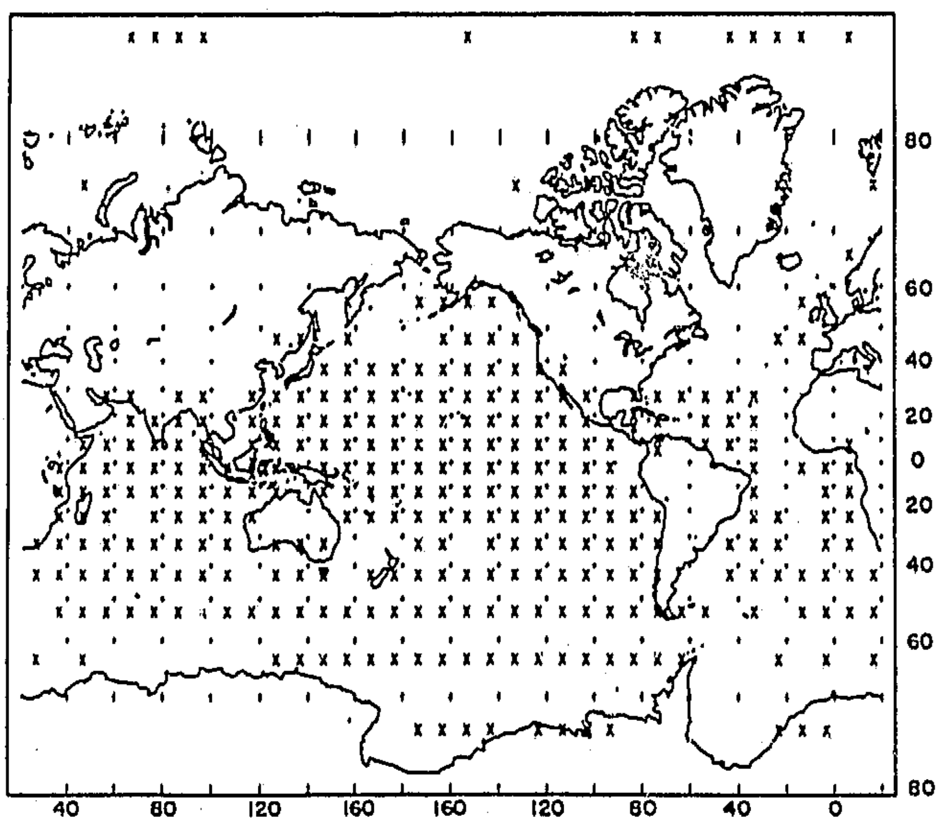
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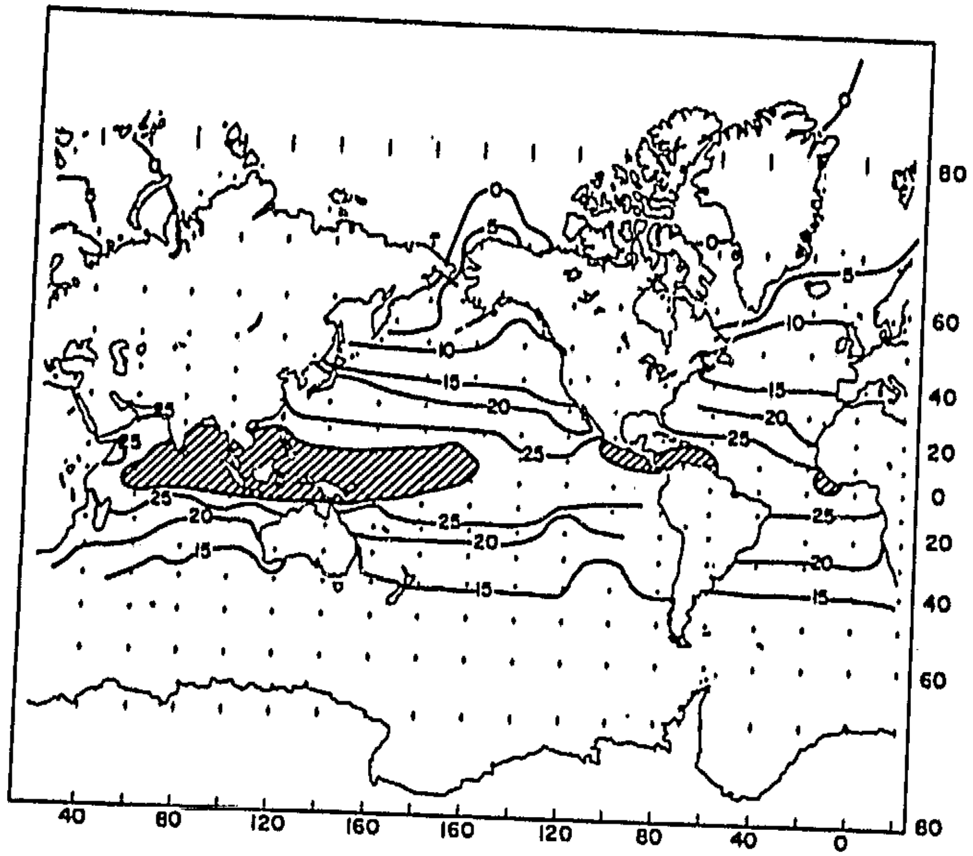
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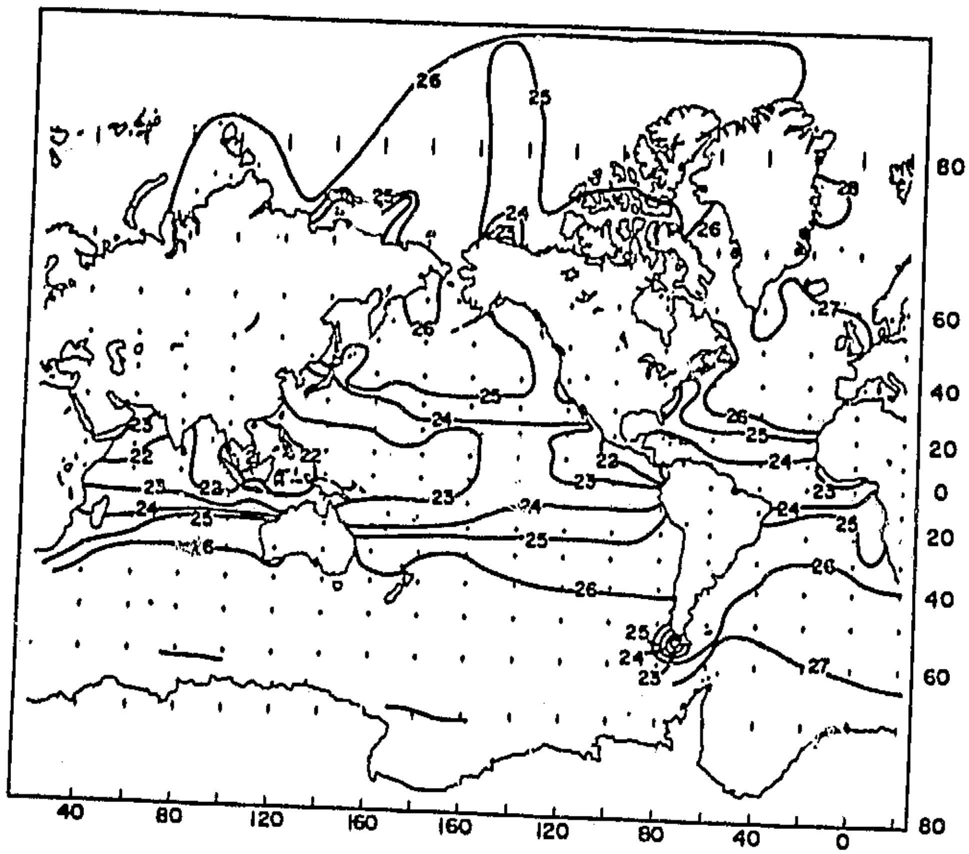
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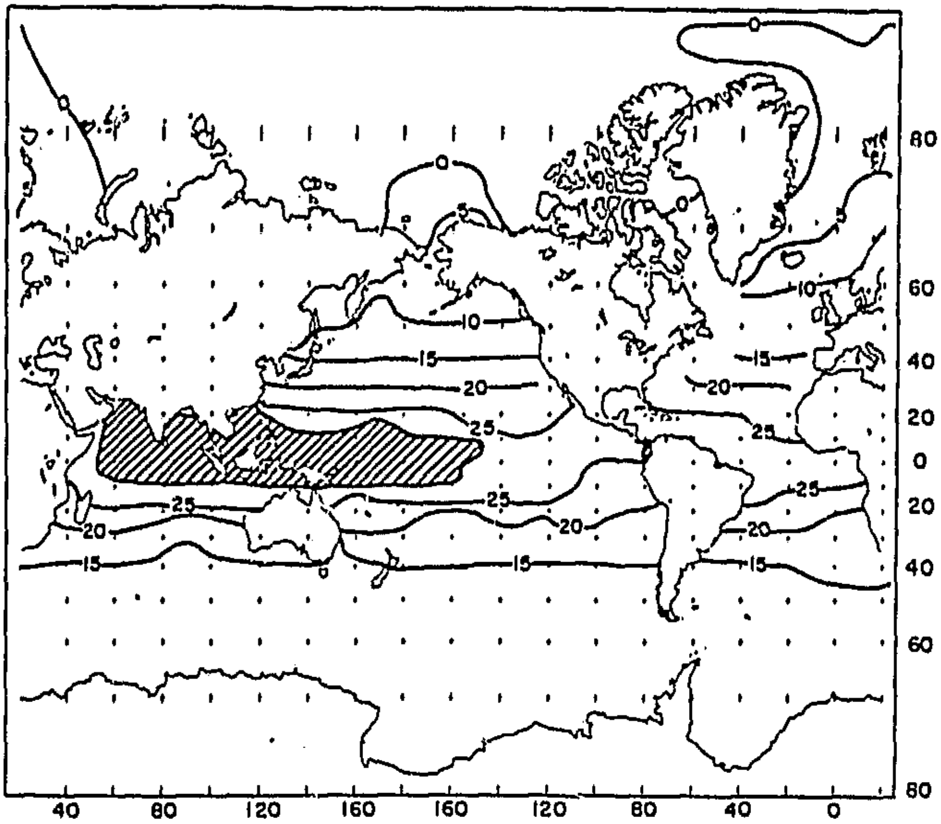
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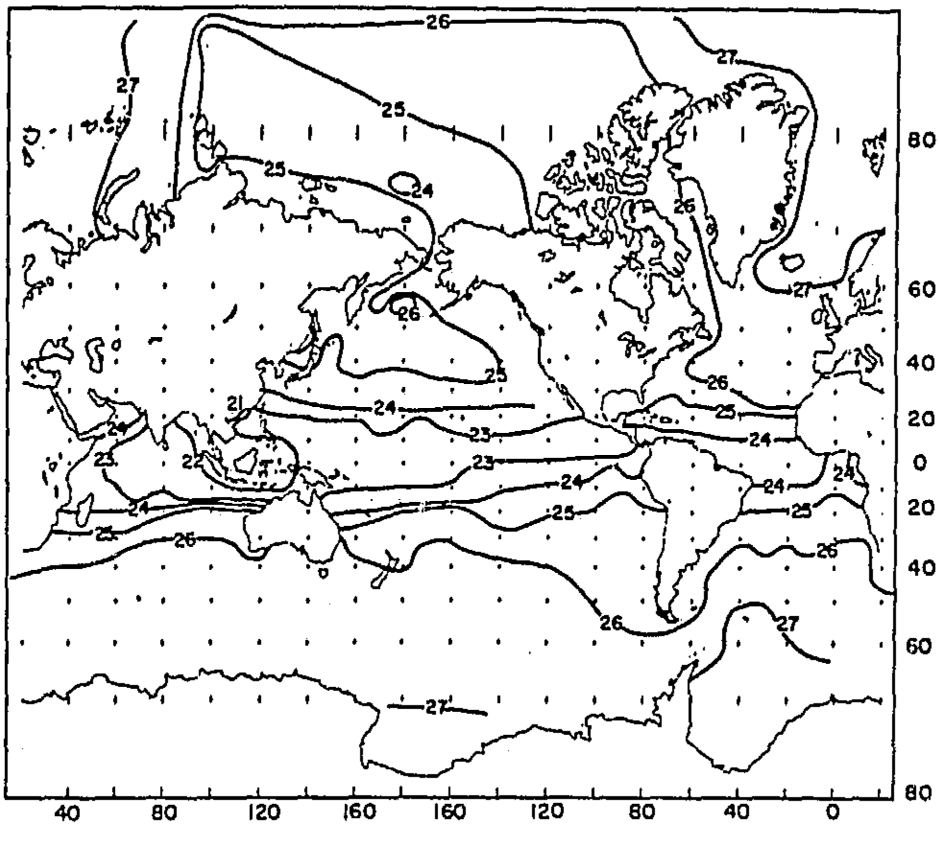
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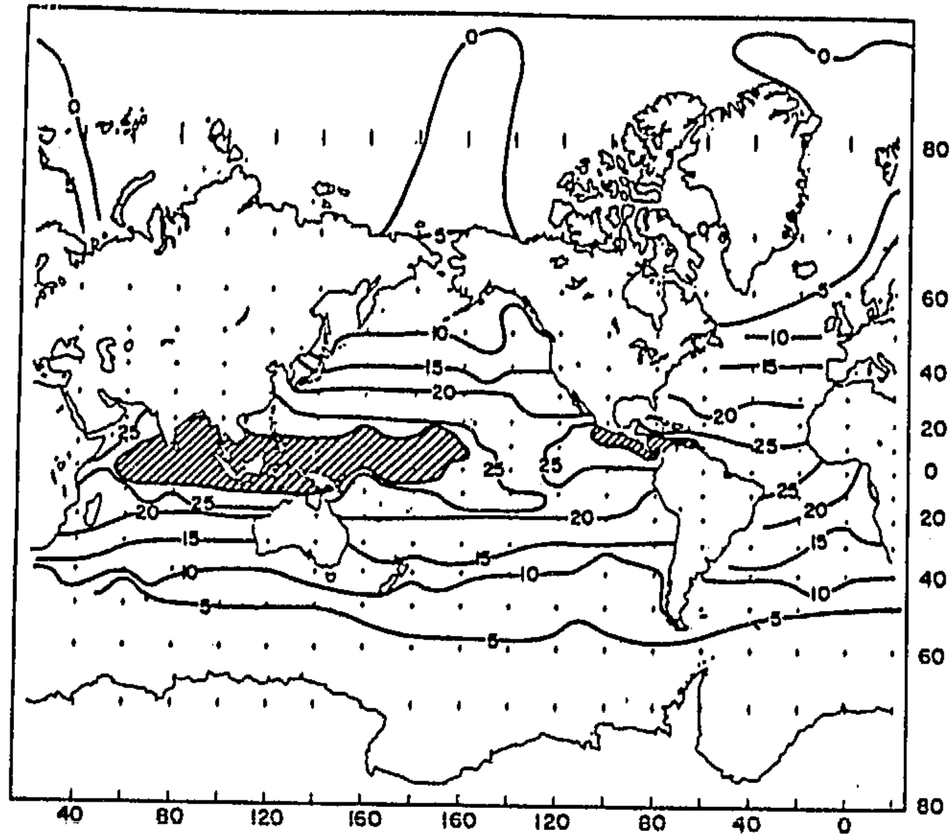
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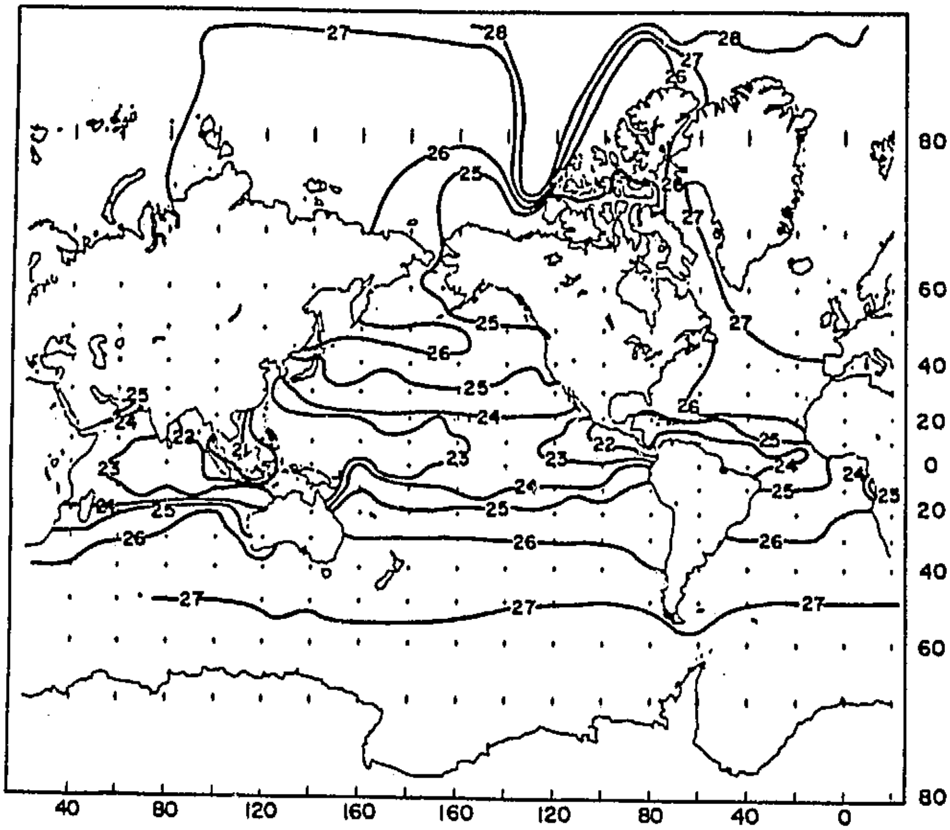
27
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40
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20
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60
80
40
80
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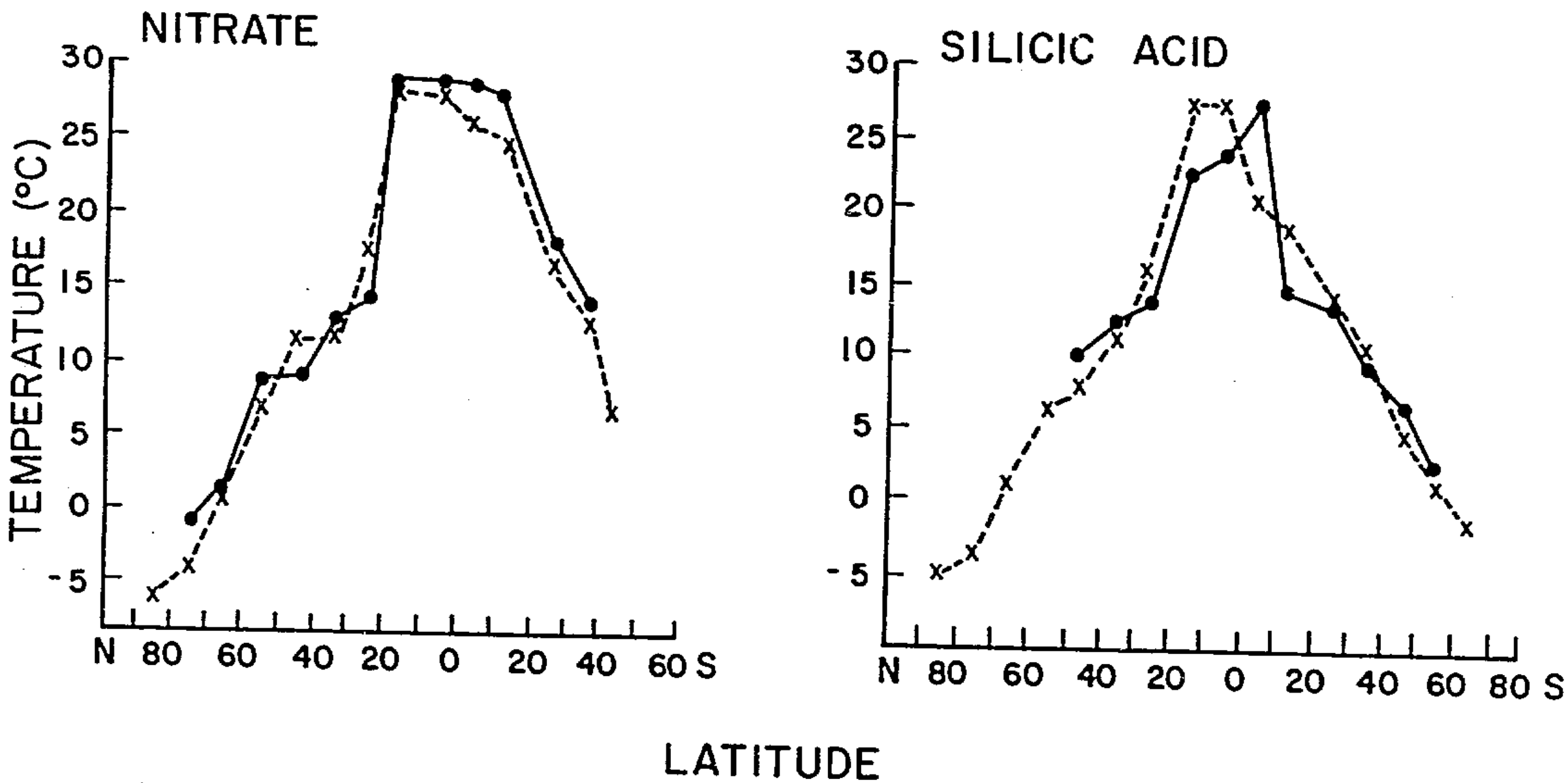
160
120
80
40
0


NITRATE
SILICIC ACID
TEMPERATURE (°C)
30
25
20
15
10
5
0
-5
N 80 60 40 20 0 20 40 60 S
N 80 60 40 20 0 20 40 60 80 S
LATITUDE

APPENDIX I

The attached set of tables provide a record of the:

1. Temperature vs. nitrate cubic regression coefficients
2. Temperature vs. nitrate variance-covariance matrix
3. Temperature vs. nitrate means, ranges and percentiles

for each 10° square of latitude and longitude for which data exists in the analyzed NODC data set. The labels are identified in Table 2 of the accompanying manuscript entitled 'Predicting plant nutrient concentrations from temperature and sigma-t in the world ocean'. Five additional sets of tables for temperature vs. phosphate, temperature vs. silicic acid, sigma-t vs. nitrate, sigma-t vs. phosphate and sigma-t vs. silicic acid are also available on the Triangle Universities Computer System in North Carolina. Some specific aspects of the three tables within the attached set are discussed in the following sections.

1. Temperature vs. nitrate cubic regression coefficients.

- The regression coefficients in this table are substituted into the equation

$$N = a + b_1T + b_2T^2 + b_3T^3$$

or

$$N = TNIC + TN1SC(T) + TN2SC(T)^2 + TN3SC(T)^3.$$

- The lowest (TNTL), mean (TNTM) and highest (TNTH) temperatures mark the range of best application of the cubic regression equation. TNNC gives the number of data points considered.

2. Temperature vs. nitrate variance-covariance matrix

- The 4x4 matrix (TNIC, TN1SC, TN2SC, TN3SC) associated with each TENSQ corresponds to the labels

$$\begin{bmatrix} aa & ab_1 & ab_2 & ab_3 \\ ab_1 & b_1b_1 & b_1b_2 & b_1b_3 \\ ab_2 & b1b2 & b2b2 & b2b3 \\ ab_3 & b1b3 & b2b3 & b3b3 \end{bmatrix}$$

The variance of a predicted nitrate (N) concentration at a chosen temperature ($T=\hat{T}$) given by

$$\hat{V}ar\ (\hat{N}) = \left.\frac{\partial N}{\partial T}\right|^{1}_{T=\hat{T}} \hat{V}(\hat{T}) \left.\frac{\partial N}{\partial T}\right|_{T=\hat{T}}$$

3. Temperature vs. nitrate means, ranges and percentiles

   - The lowest (TNNL; TNTL), mean (TNNM; TNTM) and highest (TNNH; TNTH) nitrate concentrations and temperatures are given.

   - The 25th (TLNT25), 50th (TLNTM) and 75th (TLNT75) percentiles of the temperature at which nitrate is less than 5 μM are given. TLNTC gives the number of data points considered.

TEMPERATURE VS. NITRATE CUBIC REGRESSION COEFFICIENTS

OBS	AREA	TENSQ	LAT	LON	THNC	TNTL	TNTM	TNTH	TNIC	TN1SC	TN2SC	TN3SC	TNEC	TNARC	TNQUAL
1	1	102	-75	5	10	-1.8	-1.7	-1.6	-5296.80121	-9303.73334	-5659.46126	-1121.16076	3.6170	-0.19	X
2	1	103	-75	15	75	-1.9	-0.7	0.7	21.60877	0.47840	3.99322	1.30048	6.4697	0.02	X
3	1	104	-75	25	217	-2.0	-1.0	1.7	27.49436	4.92297	0.57657	-0.98404	5.3183	0.11	X
4	1	105	-75	35	353	-2.4	-1.6	0.7	29.15624	5.17509	-1.09034	-1.58535	5.8600	0.07	X
5	1	106	-75	45	159	-2.3	-1.4	0.5	24.95823	1.65483	-4.16088	-2.82807	5.3671	0.09	X
6	1	107	-75	55	148	-2.1	-1.2	0.3	26.46615	-1.75196	-15.05701	-8.01422	4.5864	0.20	X
7	1	111	-75	95	26	-1.9	-0.3	1.7	30.08893	2.75140	-0.70781	-2.12544	2.4085	0.43	X
8	1	112	-75	105	22	-1.3	0.7	1.9	22.27331	5.11491	1.80560	-2.25381	2.8206	0.25	X
9	1	113	-75	115	31	-1.2	0.5	1.7	35.64348	3.44056	2.20764	-1.30460	3.8853	0.31	X
10	1	117	-75	155	125	-1.8	-0.2	1.6	53.13777	6.92889	0.62101	-2.01901	3.1634	0.56	X
11	1	118	-75	165	149	-1.8	-0.4	1.5	25.94708	9.39708	0.73591	-3.17740	4.1321	0.53	X
12	1	119	-75	175	168	-2.0	-0.4	1.5	27.45045	4.43160	0.84936	-1.10428	2.5975	0.51	X
13	1	120	-75	-175	354	-2.1	-0.6	15.9	14.60123	0.96684	0.54097	-0.03548	12.1946	0.08	M
14	1	121	-75	-165	195	-1.9	-0.2	17.8	7.20655	1.26030	0.98036	-0.05591	9.7617	0.29	M
15	1	200	-65	-15	10	0.3	0.9	4.6	-2.62259	22.90483	-30.62892	-11.50077	0.2183	0.88	X
16	1	201	-65	-5	12	0.2	3.7	9.6	22.00790	5.42303	-0.51686	-0.00374	3.0596	0.66	M
17	1	203	-65	15	51	-1.8	-0.9	0.8	31.41579	3.82445	-12.14405	-7.07127	4.3348	0.31	X
18	1	204	-65	25	172	-1.9	-0.6	1.6	31.10696	6.00233	-4.16908	-3.16654	4.8262	0.18	X
19	1	205	-65	35	255	-2.0	-0.5	1.5	27.81276	4.05404	0.65367	-0.29264	7.3554	0.09	X
20	1	206	-65	45	289	-2.0	-0.2	2.0	27.66919	3.42107	-0.52258	-1.36456	6.3825	0.04	X
21	1	207	-65	55	324	-4.0	1.7	19.6	25.31983	-0.41221	0.17632	-0.00759	7.6978	0.05	M
22	1	208	-65	65	681	-4.1	3.4	21.4	25.16050	1.84355	-0.18178	-0.00532	7.6430	0.09	M
23	1	209	-65	75	143	-1.8	1.4	6.2	28.99482	1.40589	-0.60981	-0.00009	5.9041	0.20	X
24	1	210	-65	85	148	-1.8	0.9	4.6	24.87796	1.74163	1.69366	-0.55241	5.8318	0.18	X
25	1	211	-65	95	283	-1.6	1.6	4.1	27.78553	1.96519	0.58591	-0.38805	2.8890	0.35	X
26	1	212	-65	105	217	-1.2	1.7	4.2	27.54327	1.57435	0.52991	-0.27657	3.1537	0.25	X
27	1	213	-65	115	149	-1.8	1.4	3.5	27.00880	2.73741	0.66011	-0.56766	2.9245	0.33	X
28	1	214	-65	125	95	-1.6	1.1	3.8	27.62195	2.28018	0.40788	-0.45498	2.9249	0.34	X
29	1	215	-65	135	104	-1.1	1.0	2.0	58.96573	1.81446	-0.41015	0.14051	2.9750	0.17	X
30	1	216	-65	145	47	-1.3	0.5	1.7	29.94484	3.25057	1.71833	-1.43502	1.9273	0.54	X
31	1	217	-65	155	61	-1.8	0.4	2.2	30.40313	0.87550	0.24722	-0.17917	1.0956	0.29	X
32	1	218	-65	165	158	-1.8	0.8	4.3	37.27123	1.72585	0.61331	-0.35733	5.0022	0.16	X
33	1	219	-65	175	80	-1.8	0.6	2.4	37.21419	3.08959	1.28500	-0.82996	4.2226	0.14	X
34	1	220	-65	-175	179	-4.9	5.5	17.7	29.77654	0.45109	0.02886	-0.00316	2.8683	0.12	M
35	1	221	-65	-165	482	-4.7	6.9	28.3	24.20374	1.40120	-0.04810	-0.00005	6.6785	0.27	M
36	1	222	-65	-155	317	-4.6	7.4	23.5	28.67490	0.89479	-0.04389	0.00037	3.9939	0.23	M
37	1	223	-65	-145	65	-1.9	0.6	2.2	25.50031	-3.14127	0.49287	0.82904	4.5437	0.08	X
38	1	224	-65	-135	92	-1.8	0.5	2.1	27.05371	2.99976	0.83621	-0.41918	4.4373	0.31	X
39	1	225	-65	-125	126	-1.9	-0.8	1.9	19.28663	0.97948	1.18174	0.42291	4.9442	0.11	X
40	1	226	-65	-115	93	-1.8	0.1	1.7	14.72822	0.58816	1.78290	0.24009	5.4072	0.08	X
41	1	227	-65	-105	14	-1.9	-0.9	0.7	20.48553	-5.23827	-12.30052	-4.38645	4.1363	0.06	X
42	1	228	-65	-95	54	-1.9	-0.2	1.3	17.89688	1.33804	-0.46028	-1.08928	5.1381	-0.01	X
43	1	229	-65	-85	25	-1.0	0.2	1.3	13.08019	0.06898	-0.11332	-0.31542	0.5673	0.13	X
44	1	230	-65	-75	75	-1.7	-0.0	2.0	16.49711	4.25510	-0.15390	-1.03326	8.5070	0.04	M
45	1	231	-65	-65	9	-1.7	-1.0	0.4	1.54981	0.06679	-0.40410	-0.22194	0.3803	-0.45	M
46	1	232	-65	-55	15	-1.6	-0.6	1.4	1.42100	0.07407	-0.05264	-0.07980	0.2870	-0.14	M
47	1	233	-65	-45	8	-1.7	-1.1	0.4	1.84671	0.20406	-1.13748	-0.75809	0.1536	0.58	M
48	3	301	-55	-5	15	-2.4	10.9	15.2	10.57025	10.58338	-1.38622	0.05262	4.1544	0.10	M
49	3	302	-55	5	51	-3.8	0.5	9.4	10.66624	1.27304	1.16317	-0.11632	6.9894	0.48	M
50	3	303	-55	15	70	-4.0	4.7	17.6	14.97965	0.98592	0.12469	-0.00714	7.6485	0.51	M
51	3	304	-55	25	234	-4.7	1.9	16.5	30.69776	-0.38471	0.04273	-0.00096	5.8166	0.02	M
52	3	305	-55	35	221	-1.8	3.5	3.7	31.21324	2.29335	0.31538	-0.56757	4.7916	0.15	X
53	3	306	-55	45	131	-2.9	7.9	32.7	31.22511	-0.88658	0.09428	-0.00223	5.0165	0.09	M
54	3	307	-55	55	172	-0.9	9.5	34.0	18.68316	1.84157	-0.11203	0.00205	10.2572	0.07	M
55	3	308	-55	65	1955	-4.5	6.4	34.8	31.46625	-3.84788	0.23663	-0.00350	7.2213	0.37	M
56	3	309	-55	75	580	1.8	7.1	11.1	41.81966	-4.66305	0.25911	-0.01549	4.5088	0.77	X

OBS	AREA	TENSQ	LAT	LON	TNNC	TNTL	TNTM	TNTH	TNIC	TN1SC	TN2SC	TN3SC	TNEC	TNARC	TNQUAL
57	3	310	-55	85	301	1.8	4.6	9.2	38.26742	-2.22931	-0.47459	0.04944	3.7353	0.52	X
58	3	311	-55	95	236	0.6	4.4	8.8	15.38726	12.92680	-3.49792	0.23098	2.5640	0.73	X
59	3	312	-55	105	134	1.5	3.5	6.8	14.82163	14.95858	-4.47523	0.34677	5.6185	0.65	X
60	3	313	-55	115	188	0.4	3.7	8.8	21.52516	8.67480	-2.67200	0.19345	5.7850	0.63	X
61	3	314	-55	125	182	0.1	3.8	7.3	27.96245	3.63618	-1.50252	0.11398	3.2435	0.61	X
62	3	315	-55	135	208	-0.4	5.3	5.5	28.71190	3.17951	-1.13420	0.04786	5.5888	0.42	X
63	3	316	-55	145	264	-1.3	5.4	7.8	31.06673	1.70937	-0.27175	0.06347	5.8148	0.70	X
64	3	317	-55	155	142	-1.3	5.1	8.0	29.54815	1.26926	-0.71057	0.03991	2.9139	0.67	X
65	3	318	-55	165	129	0.3	4.4	11.2	25.34439	5.58899	-1.55457	0.08619	4.0830	0.72	X
66	3	319	-55	175	29	2.3	5.8	8.5	6.57927	18.51264	-4.58909	0.30039	3.3122	0.76	X
67	3	321	-55	-165	152	1.0	6.1	10.5	44.24862	-7.62080	0.67622	-0.02809	4.5818	0.74	X
68	3	322	-55	-155	233	0.0	5.9	32.3	35.85487	-4.76838	0.39281	-0.00797	7.0297	0.32	M
69	3	323	-55	-145	39	-1.6	1.5	5.3	20.13502	-0.10989	1.52304	-0.31714	4.3610	0.12	X
70	4	324	-55	-135	150	-0.1	3.5	7.0	23.86897	6.18014	-1.86350	0.13004	3.7058	0.36	X
71	4	325	-55	-125	11	-0.7	3.7	5.2	29.16983	1.88834	-0.54400	-0.01097	4.1031	0.35	X
72	4	326	-55	-115	123	-1.8	2.2	5.3	27.15846	-1.68374	0.91322	-0.02487	6.5086	0.15	X
73	4	329	-55	-85	28	-0.2	0.9	1.8	11.40869	-8.91713	11.24970	-2.89243	2.0581	0.02	X
74	4	330	-55	-75	85	0.0	1.7	3.7	12.93511	2.67654	-0.33582	-0.08562	4.0650	0.03	X
75	4	332	-55	-55	2	1.4	1.8	2.1	1.19315	-0.13699	0.00000	0.00000	.	0.00	M
76	2	400	-45	-15	25	4.6	19.2	34.6	47.91444	-6.28646	0.41967	-0.00746	3.8514	0.66	M
77	3	401	-45	5	3	9.9	9.9	9.9	-0.50910	0.00000	0.04167	0.00260	.	0.00	X
78	3	404	-45	25	49	1.8	4.6	13.6	47.77542	-6.47317	0.42736	-0.01378	1.8896	0.96	X
79	3	405	-45	35	62	0.6	3.4	9.6	28.40115	-5.37030	-1.78299	0.10766	3.6478	0.74	X
80	3	406	-45	45	342	1.5	7.8	34.0	43.53037	-5.75113	0.25800	-0.00263	5.9409	0.69	M
81	3	407	-45	55	1649	1.1	6.7	22.4	34.06012	-3.32336	0.07522	0.00038	5.6377	0.61	X
82	3	408	-45	65	2502	1.0	9.5	18.5	6.47750	5.32438	-0.80462	0.02809	4.0467	0.65	X
83	3	409	-45	75	468	2.8	9.3	15.1	18.99027	-2.65127	0.60458	-0.03679	9.6696	0.22	M
84	3	410	-45	85	222	1.0	7.1	13.6	24.90415	-2.07187	0.05101	-0.00122	9.7468	0.15	M
85	3	411	-45	95	112	3.7	7.4	13.3	28.28200	-7.64802	0.81411	-0.02974	6.7524	-0.06	M
86	3	412	-45	105	86	4.2	8.1	13.8	-29.89287	4.75698	-0.51989	0.01713	4.3000	0.00	M
87	3	413	-45	115	110	4.1	7.5	13.0	-23.50126	12.86840	-1.66013	0.06489	7.0345	0.07	M
88	3	414	-45	125	141	0.9	7.3	13.1	12.85435	1.44910	-0.47287	0.02249	7.9468	0.14	M
89	3	415	-45	135	114	1.2	7.9	13.5	1.40679	4.97833	-0.31075	0.03359	7.7226	0.07	M
90	3	416	-45	145	106	4.3	7.8	13.1	-1.93277	7.15267	-1.10702	0.04385	6.4259	0.11	M
91	3	417	-45	155	115	4.7	8.4	14.1	6.89181	2.83189	-0.53548	0.02148	8.4766	0.10	M
92	3	418	-45	165	129	1.3	9.4	15.1	-3.36385	3.14036	-0.39020	0.01310	3.6259	0.14	M
93	3	419	-45	175	186	0.6	10.0	16.2	-2.61704	8.61138	-1.20463	0.04289	6.3561	0.41	M
94	3	420	-45	-175	153	3.2	10.6	17.9	72.50012	-11.96973	0.66788	-0.01252	5.3649	0.69	M
95	3	421	-45	-165	297	4.3	10.7	18.7	13.96066	1.76949	-0.36979	0.01272	5.5233	0.40	M
96	3	422	-45	-155	584	1.3	10.5	18.6	-7.38074	10.28475	-1.23939	0.03929	6.2901	0.46	M
97	3	423	-45	-145	2286	3.0	13.3	19.3	64.81518	-8.57012	0.30125	-0.00110	3.0225	0.60	X
98	4	424	-45	-135	106	2.8	9.3	14.8	39.15541	3.83717	-0.94231	0.03742	2.8763	0.90	X
99	4	425	-45	-125	98	2.9	9.1	14.3	-10.70303	14.37440	-2.01532	0.07588	3.1535	0.73	X
100	4	426	-45	-115	105	2.9	9.7	17.6	18.14880	3.69366	-0.68584	0.02418	5.4442	0.53	X
101	4	427	-45	-105	22	6.3	9.2	9.9	-1407.52569	527.94551	-63.26545	2.46376	3.4997	0.73	X
102	4	430	-45	-75	47	1.8	9.5	15.0	16.75536	-1.26487	0.28601	-0.01825	3.9915	0.42	M
103	4	431	-45	-65	56	2.9	9.8	13.5	9.19346	3.43743	-0.42962	0.01156	4.4605	0.49	M
104	2	500	-35	-15	52	3.3	11.9	21.1	37.15476	-0.20907	-0.24464	0.00820	3.4230	0.92	X
105	2	501	-35	5	23	3.6	11.6	22.3	35.66296	2.75769	-0.49684	0.01458	1.8703	0.98	X
106	2	504	-35	25	37	3.0	9.7	20.5	29.92384	1.24428	-0.39112	0.01262	1.6229	0.98	X
107	2	505	-35	35	34	3.8	12.1	22.9	30.80388	0.95428	-0.32504	0.00990	0.9262	0.99	X
108	2	506	-35	45	1614	2.9	15.2	24.6	31.13037	-0.25723	-0.17564	0.00554	3.6332	0.87	M
109	2	507	-35	55	4378	1.3	12.2	25.2	40.10188	-4.96284	0.20955	-0.00293	4.7830	0.72	X
110	2	508	-35	65	36	11.1	14.4	20.5	453.35926	-85.27376	5.28300	-0.10746	3.4106	0.47	X
111	2	509	-35	75	612	0.7	10.1	20.1	-3.35406	10.68195	-1.18440	0.03330	11.4564	0.36	M
112	3	510	-35	85	322	1.7	11.2	22.5	11.69779	7.77778	-0.99742	0.02898	4.1588	0.89	X

OBS	AREA	TENSO	LAT	LON	TNHC	TNTL	TNTM	TNTH	TNIC	TN1SC	TN2SC	TN3SC	TNEC	TNARC	TNQUAL
57	3	310	-55	85	301	1.8	4.6	9.2	38.26742	-2.22931	-0.47459	0.02944	3.7353	0.52	X
58	3	311	-55	95	236	0.6	4.4	8.8	15.28728	12.92680	-3.44792	0.23098	2.5640	0.73	X
59	3	312	-55	105	134	1.3	3.5	6.8	14.82103	14.95858	-4.47523	0.14677	5.6185	0.65	X
60	3	313	-55	115	188	0.4	3.7	8.8	21.52516	8.67480	-2.67200	0.19345	5.7850	0.63	X
61	3	314	-55	125	182	0.1	3.6	7.3	27.96245	3.63618	-1.50252	0.11398	3.2435	0.61	X
62	3	315	-55	135	208	-0.4	3.3	5.2	28.71190	3.17951	-1.13420	0.04786	2.5888	0.42	X
63	3	316	-55	145	264	-1.3	3.4	7.6	31.06673	1.70937	-0.97175	0.06347	5.8148	0.70	X
64	3	317	-55	155	142	-1.3	4.1	8.0	29.54815	1.26926	-0.71057	0.03991	2.9139	0.67	X
65	3	318	-55	165	129	0.3	4.4	11.2	25.34439	5.58899	-1.55457	0.08619	4.0830	0.72	X
66	3	319	-55	175	59	2.3	5.8	8.5	6.57927	18.51264	-4.58909	0.30039	3.3122	0.76	X
67	3	321	-55	-165	152	1.0	6.1	10.5	44.24862	-7.62080	0.67622	-0.02809	4.5618	0.74	X
68	3	322	-55	-155	233	0.0	5.9	32.3	35.85487	-4.76838	0.39281	-0.00797	7.0297	0.32	M
69	3	323	-55	-145	39	-1.6	1.5	5.3	20.13502	-0.10989	1.52104	-0.31714	4.3610	0.12	X
70	4	324	-55	-135	150	-0.1	3.2	7.0	23.86897	6.18014	-1.86350	0.13004	3.7058	0.36	X
71	4	325	-55	-125	11	-0.7	3.7	5.2	39.16983	1.88834	-0.54400	-0.01097	4.1031	0.15	X
72	4	326	-55	-115	123	-1.8	2.5	5.3	27.15846	-1.68374	0.01322	-0.02487	6.5086	0.15	X
73	4	329	-55	-85	28	-0.2	0.9	1.8	11.40869	-6.91713	11.24970	-2.89243	2.0581	0.02	X
74	4	330	-55	-75	85	0.0	1.7	3.7	12.93511	2.67654	-0.33582	-0.08562	9.0650	0.03	X
75	4	332	-55	-55	2	1.4	1.6	2.1	1.19315	-0.13699	0.00000	0.00000		0.00	M
76	2	400	-45	-15	25	4.6	19.2	34.6	47.91444	-6.28676	0.41967	-0.00746	3.8514	0.66	M
77	2	401	-45	5	3	9.9	9.9	9.9	-0.50910	0.00000	0.04167	0.00260		0.00	X
78	2	404	-45	25	49	1.8	4.6	13.6	47.77542	-6.47317	0.42736	-0.01378	1.8896	0.46	X
79	2	405	-45	35	62	0.6	3.4	9.6	28.40118	5.37030	-1.78299	0.10766	3.6478	0.74	X
80	2	406	-45	45	342	1.5	7.8	34.0	43.53057	-5.75113	0.25800	-0.00263	5.9409	0.69	M
81	2	407	-45	55	1448	1.1	6.7	22.4	34.06012	-3.32336	0.07522	0.00038	5.6377	0.61	X
82	2	408	-45	65	2002	1.0	9.5	18.5	6.47750	5.32438	-0.80462	0.02809	4.0467	0.65	X
83	3	409	-45	75	468	2.8	9.3	15.1	18.99027	-2.65127	0.60458	-0.03679	9.6696	0.22	M
84	3	410	-45	85	222	1.0	7.1	13.6	24.90413	-2.07187	0.05101	-0.00122	9.7468	0.15	M
85	3	411	-45	95	112	3.7	7.4	13.3	28.28200	-7.64802	0.81411	-0.02974	6.7524	-0.06	M
86	3	412	-45	105	86	4.2	8.1	13.8	-9.89287	4.75698	-0.51989	0.01713	4.3000	0.00	M
87	3	413	-45	115	110	4.1	7.5	13.0	-23.50126	12.86840	-1.68013	0.06489	7.0345	0.07	M
88	3	414	-45	125	141	0.9	7.3	13.1	12.85435	1.44910	-0.47287	0.02249	7.9468	0.14	M
89	3	415	-45	135	114	1.2	7.9	13.5	1.40679	4.97833	-0.81075	0.03359	7.7226	0.07	M
90	3	416	-45	145	106	4.3	7.8	13.1	-1.93277	7.15267	-1.10702	0.04385	6.4239	0.11	M
91	3	417	-45	155	115	4.7	8.4	14.1	6.89181	2.83189	-0.53545	0.02148	8.4766	0.10	M
92	3	418	-45	165	129	1.3	9.4	15.1	-3.36385	3.14036	-0.39020	0.01310	3.6259	0.14	M
93	3	419	-45	175	186	0.6	10.0	16.2	-2.61704	8.61138	-1.20463	0.04289	6.3561	0.41	M
94	3	420	-45	-175	153	3.2	10.6	17.9	72.50012	-11.96973	0.66788	-0.01252	5.3649	0.69	M
95	3	421	-45	-165	297	4.3	10.7	18.7	13.96066	1.76949	-0.36979	0.01272	5.5233	0.40	M
96	3	422	-45	-155	284	1.3	10.5	18.6	-7.38074	10.28475	-1.23939	0.03929	6.2901	0.46	M
97	3	423	-45	-145	2286	3.0	13.3	19.3	64.81518	-8.57012	0.30125	-0.00110	3.0225	0.60	X
98	4	424	-45	-135	106	2.8	9.3	14.8	29.15541	3.83717	-0.94231	0.03742	2.8763	0.90	X
99	4	425	-45	-125	98	2.9	9.1	14.3	-10.70303	14.37440	-2.01532	0.07588	3.1535	0.73	X
100	4	426	-45	-115	105	2.9	9.7	17.6	18.14880	3.69366	-0.68584	0.02418	5.4442	0.53	X
101	4	427	-45	-105	22	6.3	9.2	9.9	-1407.52569	527.94551	-63.26545	2.46376	3.4997	0.73	X
102	4	430	-45	-75	47	1.8	5.7	15.0	16.75536	-1.26487	0.28601	-0.01825	3.9915	0.42	M
103	4	431	-45	-65	56	2.9	9.8	13.5	9.19346	3.43743	-0.42962	0.01156	4.4605	0.49	M
104	2	500	-35	-15	52	3.3	11.9	21.1	37.15476	-0.20907	-0.24464	0.00820	3.4230	0.92	X
105	2	501	-35	5	23	3.6	11.6	22.3	25.66296	2.75769	-0.49694	0.01458	1.8703	0.98	X
106	2	504	-35	25	37	3.0	9.7	20.5	29.92384	1.24428	-0.39112	0.01262	1.6229	0.98	X
107	2	505	-35	35	54	3.8	12.1	22.9	30.60388	0.95428	-0.32504	0.00990	0.9262	0.99	X
108	2	506	-35	45	1614	2.9	15.2	24.8	31.13037	-0.25723	-0.17564	0.00554	3.6332	0.87	M
109	2	507	-35	55	4378	1.3	12.2	25.2	40.10188	-4.96284	0.20955	-0.00293	4.7830	0.72	X
110	2	508	-35	65	36	11.1	14.4	25.2	453.35926	-85.27376	5.58300	-0.10746	3.4106	0.47	X
111	2	509	-35	75	612	0.7	10.1	20.1	-3.35406	10.68195	-1.18440	0.03330	11.4564	0.36	M
112	3	510	-35	85	322	1.7	11.2	22.5	11.69779	7.77778	-0.99742	0.02898	4.1588	0.89	X

OBS	AREA	TEMSQ	LAT	LON	TNNC	TNTL	TNTH	TNTH	TN1C	TN1SC	TN2SC	TN3SC	TNEC	TNARC	TNQUAL
169	2	701	-15	-5	48	3.9	9.8	21.5	12.93434	8.81162	-0.90029	0.02158	2.3548	0.96	X
170	2	702	-15	5	22	3.9	13.6	22.0	11.37593	8.16210	-0.82990	0.01980	3.3729	0.95	X
171	2	704	-15	25	313	3.6	14.3	26.4	35.54652	0.67944	-0.23151	0.00593	3.3457	0.97	X
172	2	705	-15	35	1129	3.3	15.5	28.5	39.21290	-1.11825	-0.10377	0.00339	3.6069	0.93	X
173	3	709	-15	75	2412	1.5	14.7	26.3	-8.52943	8.06744	-0.58916	0.01122	8.8317	0.33	B
174	3	710	-15	85	533	1.8	14.9	27.5	-20.60436	11.01666	-1.84963	0.01181	9.5098	0.40	M
175	3	711	-15	95	282	2.3	15.9	27.5	-29.94285	14.00057	-1.08222	0.02318	8.7958	0.56	M
176	3	712	-15	105	321	1.8	17.0	27.8	8.65527	8.12835	-0.78256	0.01788	4.7410	0.89	X
177	3	713	-15	115	422	4.5	19.4	26.8	45.02023	-0.24487	-0.23636	0.00701	3.0752	0.93	X
178	3	714	-15	125	40	10.4	18.3	26.9	121.31500	-14.07704	0.53335	-0.00656	2.4816	0.89	X
179	3	715	-15	135	356	4.4	17.9	28.1	49.73843	-3.53052	0.04362	0.00071	1.5522	0.99	X
180	3	716	-15	145	450	2.7	18.7	28.8	30.06737	1.15282	-0.24352	0.00598	1.5433	0.91	X
181	3	717	-15	155	110	2.8	18.4	28.7	27.98435	0.84766	-0.21391	0.00535	5.2215	0.83	X
182	3	718	-15	165	283	4.0	18.4	28.6	43.62019	-2.32144	-0.00720	0.00124	2.3327	0.97	X
183	3	719	-15	175	574	2.6	17.8	29.8	36.50771	-0.88623	-0.07999	0.00235	3.5935	0.92	X
184	3	720	-15	-175	396	4.0	20.7	29.8	43.11104	-3.17660	0.08246	-0.00083	2.8112	0.88	X
185	3	721	-15	-165	755	3.9	20.4	29.6	41.87867	-2.81455	0.06451	-0.00059	2.4112	0.93	X
186	3	722	-15	-155	954	0.1	17.6	30.3	32.54240	-0.63651	-0.07304	0.00199	2.9768	0.90	X
187	3	723	-15	-145	70	2.8	23.8	29.4	-4.91713	2.08630	-0.11734	0.00177	0.4194	0.43	M
188	3	724	-15	-135	140	2.8	23.5	30.3	-0.73850	0.34340	-0.01698	0.00021	0.1874	0.38	M
189	4	725	-15	-125	308	2.9	20.4	30.5	11.11855	4.45100	-0.36000	0.00668	4.0957	0.87	X
190	4	726	-15	-115	929	2.7	17.3	29.5	27.78757	0.97350	-0.17010	0.00357	5.0804	0.81	X
191	4	727	-15	-105	402	2.4	15.9	28.8	28.74645	0.85020	-0.18131	0.00415	6.0643	0.74	X
192	4	728	-15	-95	199	2.6	18.2	29.0	-9.27359	9.49586	-0.68707	0.01292	5.2167	0.84	X
193	4	729	-15	-85	16	5.2	14.9	26.3	36.34813	-0.17502	-0.06230	0.00064	3.9517	0.92	X
194	4	730	-15	-75	129	2.8	16.6	28.8	39.65768	-1.32049	-0.06511	0.00223	5.4360	0.82	X
195	4	731	-15	-65	444	4.8	17.8	29.1	43.41388	-2.51692	0.03461	-0.00006	4.8310	0.77	X
196	4	732	-15	-55	2182	4.7	17.9	29.6	39.43735	-1.98394	0.01854	-0.00003	3.9820	0.83	X
197	4	733	-15	-45	5747	1.6	19.0	31.0	42.87322	-2.86873	0.06945	-0.00082	2.5137	0.91	X
198	4	734	-15	-35	116	6.4	17.3	28.8	58.01181	-4.96670	0.15578	-0.00195	2.3677	0.95	X
199	5	800	-5	-15	50	4.1	13.0	29.1	20.89038	4.56195	-0.42192	0.00834	2.3766	0.96	X
200	5	801	-5	-5	1075	2.4	16.0	29.3	27.54128	5.94382	-0.36349	0.00800	3.1531	0.92	M
201	5	802	-5	5	470	2.5	15.1	28.5	27.09251	5.83525	-0.35234	0.00782	2.8479	0.95	X
202	5	803	-5	15	281	3.9	13.3	29.3	28.77883	2.28727	-0.31899	0.00722	3.4564	0.93	X
203	5	804	-5	25	334	3.8	16.2	28.2	36.80004	0.77927	-0.19761	0.00442	4.6188	0.90	X
204	5	805	-5	35	2807	3.8	17.2	29.0	36.83558	-0.09217	-0.15105	0.00387	4.0159	0.92	M
205	6	806	-5	45	680	4.3	20.0	28.4	43.49803	-1.61883	-0.07123	0.00268	2.2014	0.97	X
206	6	809	-5	75	379	1.5	15.4	23.9	2.86444	3.04649	-0.14188	0.00051	7.7569	0.22	M
207	6	810	-5	85	2417	1.1	15.7	28.3	-6.15130	7.89169	-0.57589	0.01106	9.3883	0.38	B
208	6	811	-5	95	1052	2.6	14.3	27.5	2.74015	6.54149	-0.71449	0.01503	5.8584	0.70	M
209	6	812	-5	105	416	2.4	14.8	26.4	2.21177	6.77812	-0.32683	0.01524	3.9552	0.88	M
210	6	813	-5	115	667	4.4	15.7	26.5	16.87041	5.77708	-0.33823	0.01164	6.9294	0.84	X
211	6	814	-5	125	118	4.8	15.4	26.5	44.25557	0.39980	-0.20294	0.00593	2.3358	0.96	X
212	6	815	-5	135	222	4.6	17.2	26.4	40.12185	0.37917	-0.18990	0.00473	2.9990	0.93	X
213	6	816	-5	145	567	2.4	18.5	27.4	8.19001	5.41224	-0.45316	0.00924	5.3591	0.72	M
214	6	817	-5	155	254	2.6	17.3	28.9	20.77495	-5.13068	-0.04110	0.00085	9.1316	0.27	M
215	6	818	-5	165	368	2.9	17.3	29.1	45.40218	-3.11908	0.06318	-0.00030	7.1959	0.73	M
216	6	819	-5	175	386	2.8	16.9	29.4	40.24521	-2.77002	0.06585	-0.00058	7.8367	0.63	M
217	7	820	-5	-175	1722	4.6	22.2	29.9	40.05550	-3.52558	0.08274	-0.00144	4.2652	0.78	M
218	7	821	-5	-165	2540	4.2	22.8	30.0	43.80864	-3.16923	0.12272	-0.00221	3.5835	0.84	M
219	7	822	-5	-155	1315	2.8	18.3	31.6	34.79834	-1.06458	-0.01983	0.00059	3.6308	0.88	X
220	7	823	-5	-145	1071	2.8	18.4	29.9	36.05936	-1.71281	-0.02533	-0.00036	3.5449	0.87	X
221	7	824	-5	-135	1143	2.8	19.7	31.0	5.83326	5.45131	-0.38504	0.00658	4.7421	0.84	X
222	7	825	-5	-125	2256	2.9	20.6	31.2	40.35663	-0.77263	-0.04289	0.00076	3.9010	0.95	X
223	7	826	-5	-115	507	5.1	20.6	30.5	33.00418	-0.58686	-0.13582	0.00365	3.4101	0.93	X
224	7	826	-5	-115	317	4.7	23.6	29.7	40.40099	-0.22016	-0.11983	0.00275	2.2496	0.96	X

OBS	AREA	TENSQ	LAT	LON	TNNC	TNTL	TNTM	TNTH	TNIC	TN1SC	TN2SC	TN3SC	TNEC	TNARC	TNQUAL
225	4	827	-5	-105	392	2.9	15.4	29.3	23.23782	2.85170	-0.27032	0.00498	3.8872	0.90	X
226	7	827	-5	-105	652	16.7	28.2	30.1	-2728.91135	347.91182	-14.11931	0.18500	7.0048	0.47	B
227	4	828	-5	-95	432	2.8	16.7	29.9	-1.61127	8.01563	-0.55610	0.00975	4.6038	0.89	X
228	4	829	-5	-85	36	6.5	16.5	29.0	55.56581	-4.42795	0.28600	-0.00700	4.6240	0.89	X
229	4	830	-5	-75	267	2.8	16.9	29.5	21.18867	1.97876	-0.16191	0.00234	6.1860	0.77	X
230	4	831	-5	-65	998	5.3	16.9	29.9	34.24282	-0.75664	-0.01999	0.00013	3.6245	0.88	X
231	4	832	-5	-55	2584	5.6	17.2	30.3	44.03465	-2.13285	0.03681	-0.00060	3.0235	0.92	X
232	4	833	-5	-45	1726	6.0	17.2	29.6	62.44935	-3.71113	0.22420	-0.00361	3.2385	0.91	X
233	4	834	-5	-35	20	7.4	17.8	26.1	97.72398	-12.51032	0.58219	-0.00949	2.1708	0.96	X
234	5	901	5	-5	401	1.0	17.5	28.4	25.45595	2.48280	-0.30454	0.00656	2.1470	0.96	X
235	5	902	5	5	1072	1.6	17.3	28.9	6.90811	6.34041	-0.52062	0.01024	3.3796	0.91	X
236	5	903	5	15	163	4.4	14.8	29.9	25.12735	2.97285	-0.33366	0.00697	3.8428	0.90	X
237	5	904	5	25	427	4.1	15.7	27.9	30.37258	2.05321	-0.28057	0.00606	3.6126	0.97	X
238	5	905	5	35	1545	3.8	16.7	28.9	37.07451	0.01377	-0.15150	0.00375	3.3331	0.95	X
239	5	906	5	45	2744	4.2	19.2	29.3	45.68385	-2.30806	-0.01030	0.00125	4.4866	0.89	M
240	5	907	5	55	1096	4.1	20.5	29.0	36.01617	-1.66839	0.00339	0.00037	4.7027	0.82	M
241	5	908	5	65	46	2.6	24.8	28.7	-31.20780	15.34994	-0.93778	0.01549	4.2245	0.55	M
242	5	909	5	75	105	5.6	21.8	30.0	32.96503	0.42323	-0.16210	0.00375	1.0620	0.99	X
243	6	909	5	75	1283	4.7	19.8	29.5	39.47382	1.50382	-0.20502	0.00381	2.5840	0.95	X
244	6	910	5	85	1694	4.5	17.4	32.3	31.41428	2.59553	-0.30282	0.00606	4.9636	0.86	X
245	6	911	5	95	1660	4.5	14.8	30.3	34.48967	3.24657	-0.32260	0.00629	4.9485	0.84	M
246	6	912	5	105	956	4.5	14.0	30.3	35.10406	0.78858	-0.15873	0.00305	3.2192	0.93	X
247	6	913	5	115	1884	4.4	12.6	28.8	10.56609	1.56728	-0.17992	0.00297	3.4610	0.92	X
248	6	914	5	125	49	9.1	15.5	26.8	57.39623	-4.36490	0.17021	-0.00321	2.9969	0.93	X
249	6	915	5	135	179	6.0	19.0	26.1	77.44416	-7.04035	0.24751	-0.00322	1.9087	0.94	X
250	6	916	5	145	401	2.4	18.2	26.9	3.30437	6.09487	-0.47619	0.00939	6.2715	0.65	M
251	6	917	5	155	319	2.7	19.5	29.0	14.66807	4.31016	-0.38076	0.00769	4.2854	0.82	X
252	6	918	5	165	49	2.9	17.1	29.1	11.09498	5.89174	-0.47980	0.03918	5.7928	0.86	X
253	6	919	5	175	42	2.8	14.8	28.4	-5.12283	10.50536	-0.87442	0.01819	6.9182	0.79	X
254	6	920	5	-175	1308	4.5	20.6	29.6	55.82706	-4.40975	0.15100	-0.00221	2.0376	0.95	X
255	7	921	5	-165	1132	4.7	21.3	30.1	62.28795	-5.74647	0.22979	-0.00361	1.6871	0.96	X
256	7	922	5	-155	874	2.8	17.1	30.0	18.28716	3.51664	-0.32621	0.00840	5.0706	0.85	X
257	7	923	5	-145	1282	2.8	17.8	30.4	33.14358	0.09216	-0.10769	0.00231	4.1526	0.89	X
258	7	924	5	-135	1471	2.7	19.6	29.6	8.52421	6.20065	-0.52052	0.01036	6.0811	0.80	M
259	7	925	5	-125	2933	4.0	19.0	30.2	38.96966	-0.78974	-0.05643	0.00129	4.0384	0.90	X
260	7	926	5	-115	1076	3.8	20.0	30.4	28.03753	1.52713	-0.16928	0.00287	4.3027	0.89	X
261	7	927	5	-105	900	4.6	26.3	30.7	38.78405	-1.93735	0.03150	-0.00033	3.0618	0.74	M
262	4	928	5	-95	1611	2.8	23.1	30.8	10.85813	4.88836	-0.31687	0.00466	2.6838	0.94	X
263	4	929	5	-85	12	6.6	14.2	27.9	42.93701	-0.41552	-0.00180	-0.00137	1.4374	0.98	X
264	4	930	5	-75	711	2.8	18.1	30.5	26.00178	1.76716	-0.14091	0.00167	4.8582	0.88	X
265	4	931	5	-65	631	7.0	18.3	30.1	30.64924	0.30192	-0.06140	0.00046	4.1417	0.89	X
266	4	932	5	-55	1403	2.8	17.3	30.2	43.80509	-1.47943	-0.00853	0.00018	4.2527	0.87	X
267	4	933	5	-45	593	7.1	17.3	29.3	59.19814	-3.63311	0.06201	-0.00034	2.9886	0.94	X
268	5	1003	15	15	43	6.3	13.9	19.4	40.90054	-2.13668	0.34235	-0.01686	5.1825	0.80	X
269	5	1004	15	25	113	5.3	13.8	24.6	9.06249	7.70638	-0.69081	0.01484	4.3229	0.90	X
270	5	1005	15	35	567	2.0	18.4	25.6	4.97443	6.38448	-0.54795	0.01141	4.4211	0.85	M
271	5	1006	15	45	106	5.0	14.9	26.6	19.22029	4.00557	-0.40433	0.00857	4.5475	0.89	X
272	5	1007	15	55	550	4.2	18.5	28.3	29.68756	0.49506	-0.17010	0.00419	4.9295	0.82	B
273	5	1008	15	65	2995	2.0	21.3	29.5	4.74432	4.45485	-0.36404	0.00721	5.4216	0.59	B
274	5	1009	15	75	513	2.6	20.1	30.1	22.28460	2.73245	-0.29824	0.00618	2.6012	0.95	X
275	5	1010	15	85	123	2.8	19.8	28.9	13.66363	4.99992	-0.45585	0.00935	3.0934	0.94	X
276	6	1010	15	85	83	7.1	17.5	29.3	-9.63868	9.86764	-0.65259	0.01116	2.1882	0.98	X
277	6	1011	15	95	728	4.5	15.6	29.9	30.59484	0.74193	-0.09098	0.00698	5.6982	0.81	M
278	6	1012	15	105	1794	4.3	13.6	30.7	36.99437	-0.21836	-0.08028	0.00145	4.2188	0.90	X
279	6	1013	15	115	1104	4.3	13.0	28.7	32.14465	1.00569	-0.16175	0.00295	4.3591	0.88	X
280	6	1014	15	125	39	8.4	15.7	26.0	-36.60610	14.25785	-0.98052	0.01872	3.0537	0.95	X

OBS	AREA	TENSQ	LAT	LON	TNNC	TNTL	TNTM	TNTH	TNIC	TN1SC	TN2SC	TN3SC	TNEC	TNARC	TNQUAL
281	6	1016	15	145	52	2.3	15.4	25.8	-29.68470	16.97921	-1.38831	0.03046	5.0589	0.90	X
282	6	1017	15	155	126	2.6	17.3	27.8	-4.40903	10.30869	-0.86691	0.01836	6.0175	0.85	X
283	6	1018	15	165	64	2.7	15.0	27.6	15.90840	5.40420	-0.57886	0.01330	5.4583	0.86	X
284	6	1019	15	175	57	2.7	17.1	27.7	12.31924	6.02612	-0.59112	0.01299	5.2967	0.87	X
285	6	1020	15	-175	88	10.6	22.0	29.1	92.55199	-9.87323	0.38027	-0.00519	2.6832	0.77	X
286	7	1022	15	-155	304	2.7	16.7	28.3	3.98044	8.36601	-0.74586	0.01604	6.6978	0.81	M
287	7	1023	15	-145	331	3.9	20.6	29.1	50.08036	-3.88349	0.13591	-0.00211	5.9754	0.72	X
288	7	1024	15	-135	1359	2.4	16.3	29.5	14.80647	5.37784	-0.53661	0.01174	6.6969	0.80	X
289	7	1025	15	-125	2061	3.8	19.3	30.6	37.84437	-1.07741	-0.04383	0.00126	5.9685	0.77	X
290	7	1026	15	-115	1180	4.3	17.9	30.9	41.60733	-1.94446	0.00546	0.00045	4.9318	0.81	X
291	7	1027	15	-105	28	3.0	25.6	30.5	-31.47674	12.76453	-0.81953	0.01432	2.0450	0.85	B
292	4	1028	15	-95	595	6.4	20.4	30.4	13.95985	4.61091	-0.29014	0.00388	3.9830	0.93	X
293	4	1029	15	-85	446	6.2	18.3	30.3	25.06918	2.17229	-0.12025	0.00044	4.2483	0.92	X
294	4	1030	15	-75	417	7.5	18.1	30.5	64.35623	-5.56190	0.28194	-0.00589	4.0147	0.90	X
295	4	1031	15	-65	705	7.7	18.3	30.4	45.79577	-2.18985	0.08805	-0.00246	4.5412	0.86	X
296	4	1032	15	-55	1869	5.6	18.3	30.5	8.20202	5.05894	-0.33327	0.00507	4.8091	0.82	X
297	4	1033	15	-45	249	9.5	19.8	32.6	-15.03083	9.23606	-0.56807	0.00918	2.8535	0.94	X
298	5	1103	25	15	79	6.7	14.8	19.3	-30.38710	16.83727	-1.48918	0.03628	4.7952	0.81	X
299	5	1104	25	25	53	7.6	16.1	21.6	-86.00787	29.67900	-2.22604	0.04916	4.5617	0.85	X
300	5	1105	25	35	82	6.9	17.2	21.8	-37.77799	14.51882	-1.11328	0.02416	4.0744	0.79	X
301	5	1106	25	45	480	6.6	23.4	28.4	32.21556	0.25007	-0.17837	0.00465	1.9742	0.85	X
302	5	1107	25	55	156	5.8	16.5	27.6	16.23801	3.11659	-0.34970	0.00795	4.3573	0.77	X
303	5	1108	25	65	221	5.9	16.2	27.6	16.58110	3.52311	-0.38888	0.00879	3.2843	0.89	X
304	5	1109	25	75	569	2.1	18.3	28.4	-12.80684	7.67366	-0.59235	0.01229	3.6909	0.70	X
305	5	1110	25	85	2288	2.0	17.8	32.0	12.19081	2.05096	-0.21977	0.00474	7.0998	0.47	M
306	5	1111	25	95	265	4.7	16.5	28.9	9.67049	5.12572	-0.46326	0.00959	5.5469	0.81	M
307	6	1112	25	105	425	4.3	14.5	30.9	26.73907	3.16738	-0.35438	0.00735	4.1338	0.89	X
308	6	1113	25	115	1972	3.9	14.8	32.0	56.32849	-3.01555	-0.04918	0.00305	6.2445	0.78	X
309	6	1114	25	125	96	4.2	14.9	23.1	34.55902	-2.96212	-0.57696	0.01697	3.5476	0.94	X
310	6	1115	25	135	33	7.0	18.2	35.4	138.13730	-20.11160	0.99240	-0.01651	3.7047	0.92	X
311	6	1116	25	145	173	2.0	16.2	35.8	12.81180	5.08744	-0.58428	0.01466	5.7953	0.75	X
312	6	1117	25	155	812	0.3	12.4	27.1	3.28965	3.88122	-0.35980	0.00794	8.2378	0.31	M
313	6	1118	25	165	175	2.4	15.7	27.8	39.24687	-1.37959	-0.12228	0.00465	4.8753	0.84	X
314	6	1119	25	175	44	2.7	17.7	27.8	12.97173	1.78329	-0.22633	0.00530	8.7634	0.38	M
315	6	1120	25	-175	23	3.9	19.7	27.4	49.49003	-3.94935	0.08193	-0.00012	0.9142	0.99	X
316	7	1121	25	-165	67	4.1	20.6	29.1	54.47682	-4.59019	0.09669	-0.00002	1.6064	0.97	X
317	7	1122	25	-155	463	2.1	17.3	29.1	22.18103	2.59443	-0.35496	0.00857	5.7330	0.76	X
318	7	1123	25	-145	221	4.5	19.4	29.6	54.55861	-4.47874	0.11080	-0.00069	4.3339	0.83	X
319	7	1124	25	-135	1195	2.1	16.8	30.5	17.40568	3.46721	-0.37686	0.00838	7.6233	0.64	B
320	7	1125	25	-125	2937	1.3	19.1	29.6	15.62779	0.10600	-0.07359	0.00195	5.7628	0.38	X
321	7	1126	25	-115	705	4.1	21.6	29.1	10.07069	1.50115	-0.15218	0.00315	5.1648	0.42	X
322	4	1128	25	-95	165	21.[illegible]	36.2	29.4	-2414.05189	309.99845	-12.98246	0.17824	2.7392	0.79	X
323	4	1129	25	-85	417	8.[illegible]	25.7	31.9	-47.47604	16.50946	-0.94096	0.01465	2.7978	0.84	X
324	4	1131	25	-65	545	7.8	18.3	28.0	85.08556	-10.09719	0.57408	-0.01196	4.3475	0.83	X
325	4	1132	25	-55	125	8.7	18.6	29.8	21.83331	2.48300	-0.19202	0.00267	4.1581	0.81	X
326	5	1200	35	-15	57	1.5	17.0	27.0	1.91621	0.21576	-0.03061	0.00077	1.2412	0.07	M
327	5	1201	35	-5	65	1.4	14.9	32.1	0.16403	1.49716	-0.14499	0.00342	1.4047	0.20	M
328	5	1202	35	5	201	1.7	15.0	35.2	-9.10292	8.85916	-0.83915	0.02051	3.6125	0.70	X
329	5	1203	35	15	97	9.7	14.1	35.6	-17.27514	10.75162	-0.97386	0.02397	3.9215	0.60	X
330	5	1204	35	25	64	8.8	15.7	31.4	71.01585	-8.48224	0.37373	-0.00604	5.0726	0.58	X
331	5	1205	35	35	57	8.2	15.7	24.9	25.56788	0.43391	-0.20893	0.00617	3.4956	0.70	X
332	5	1206	35	45	100	5.9	17.9	26.7	11.38624	2.96497	-0.33219	0.00783	2.5856	0.85	X
333	5	1207	35	55	108	5.9	16.0	27.3	4.63578	4.58576	-0.42552	0.00937	2.8266	0.74	X
334	5	1208	35	65	3699	1.7	12.0	28.5	2.57538	4.68617	-0.42096	0.00910	3.4204	0.76	M
335	5	1209	35	75	2200	0.5	13.9	29.4	0.49729	4.06075	-0.34915	0.00503	3.6133	0.39	B
336	5	1210	35	85	679	1.7	23.7	30.1	-10.21497	5.90855	-0.42056	0.00797	3.4870	0.48	B

OBS	AREA	TENSQ	LAT	LON	TNNC	TNTL	TNTH	TNTH	TNIC	TN1SC	TN2SC	TN3SC	TNEC	TNARC	TNQUAL
337	6	1213	35	115	191	5.1	12.4	29.5	62.85078	-5.32630	0.09212	0.00063	6.0860	0.62	X
338	6	1214	35	125	2808	1.0	10.1	18.5	4.62187	18.47215	-1.98909	0.06637	4.5398	0.84	X
339	6	1215	35	135	132	3.3	12.9	22.6	75.49354	-9.72987	0.35213	-0.00277	3.6131	0.92	X
340	6	1216	35	145	136	1.3	12.6	22.2	10.04291	7.65330	-0.97821	0.02819	6.3228	0.75	X
341	6	1217	35	155	173	2.1	11.6	23.4	11.94849	-1.07003	0.00730	0.00080	5.2871	0.23	M
342	6	1218	35	165	199	1.2	12.0	26.3	37.47320	-0.56537	-0.26151	0.00949	5.0330	0.82	X
343	6	1219	35	175	109	1.9	13.7	29.8	17.25966	3.69250	-0.54298	0.01530	5.1645	0.70	X
344	6	1220	35	-175	22	1.4	15.6	25.5	30.02099	0.57350	-0.21532	0.00606	3.2790	0.68	X
345	7	1221	35	-165	192	3.2	14.2	27.6	52.44890	-4.89469	-0.12664	-0.00066	3.9551	0.89	X
346	7	1222	35	-155	470	1.5	13.4	28.6	28.30522	0.82014	-0.39672	0.00878	6.2688	0.69	M
347	7	1223	35	-145	1870	0.3	13.5	28.4	21.43238	0.81340	-0.19231	0.00501	7.7931	0.59	M
348	11	1224	35	-135	3653	0.1	15.4	29.4	8.63399	3.80675	-0.36342	0.00793	7.4341	0.48	X
349	7	1225	35	-125	127	1.3	15.7	29.4	-4.43842	3.24810	-0.24305	0.00477	5.0041	0.25	M
350	5	1234	45	-35	15	15.0	18.7	28.8	27.70541	-4.51639	0.23906	-0.00401	0.4096	0.35	X
351	5	1235	45	-25	89	10.6	17.4	25.4	-13.02599	2.21680	-0.11685	0.00197	1.1015	-0.01	X
352	5	1300	45	-15	182	0.8	14.6	25.0	2.93756	-1.76922	0.20956	-0.00602	4.2101	0.12	B
353	5	1301	45	-5	9	14.8	9.6	25.7	15.22621	-2.25310	0.11011	-0.00176	0.0398	0.56	X
354	5	1302	45	5	63	1.4	11.4	17.7	-24.25025	19.17968	-2.21860	0.06948	4.0319	0.65	M
355	5	1303	45	15	45	1.6	12.4	17.0	-6.59969	4.64183	-0.35941	0.00630	4.1637	0.41	X
356	5	1304	45	25	20	5.2	12.2	17.9	-54.91587	19.20650	-1.68285	0.04448	6.9660	0.07	M
357	5	1305	45	35	26	4.6	12.9	17.3	23.33285	-6.23074	0.60380	-0.01881	2.2833	0.22	B
358	5	1306	45	45	81	0.0	11.1	34.1	33.67706	-2.52608	0.11078	-0.00190	6.6019	0.34	M
359	5	1307	45	55	39	0.7	11.1	35.5	-9.42365	7.04596	-0.94859	0.01416	5.3207	0.52	M
360	5	1308	45	65	5468	-0.2	7.3	27.6	1.52910	3.32002	-0.35553	0.00899	5.6560	0.23	X
361	5	1309	45	75	3068	0.0	8.0	24.0	4.21621	-0.00197	-0.00839	-0.00002	3.3253	0.09	M
362	6	1314	45	125	21405	0.6	9.6	18.9	45.44467	-1.10409	-0.54474	0.02719	8.7403	0.47	X
363	6	1315	45	135	1798	0.5	8.2	17.7	20.75773	5.48606	-1.20072	0.04690	6.6049	0.62	M
364	6	1316	45	145	322	0.3	6.5	15.6	8.71403	12.90753	-2.47208	0.11097	6.5737	0.64	M
365	6	1317	45	155	189	2.9	7.1	15.3	8.72332	0.88764	-0.30458	0.01512	8.1989	0.07	M
366	6	1318	45	165	120	0.4	6.0	15.9	13.79961	4.55557	-1.21499	0.06243	11.2874	0.17	B
367	6	1319	45	175	140	0.3	6.4	15.6	19.45208	1.63996	-0.41498	0.01539	9.3441	0.23	B
368	6	1320	45	-175	229	0.3	4.9	13.2	19.75418	2.53260	-0.90612	0.05181	8.1826	0.26	B
369	7	1321	45	-165	224	0.3	4.0	15.0	17.85042	1.06879	-0.23120	0.00674	9.6818	0.10	M
370	7	1322	45	-155	1269	-1.8	3.8	25.8	17.31338	4.23731	-0.84079	0.03089	9.4614	0.25	M
371	7	1323	45	-145	2625	-1.4	6.8	23.9	21.03499	2.19274	-0.50502	0.01756	8.4712	0.55	X
372	5	1324	45	-135	344	0.1	4.0	23.0	20.02790	-4.95536	0.39310	-0.00976	4.7026	0.69	X
373	5	1335	45	-25	27	11.5	15.7	18.7	-128.39201	24.80666	-1.55894	0.03209	1.8164	-0.03	B
374	9	1400	55	-15	878	2.9	8.1	19.0	7.58613	0.53010	-0.15265	0.00580	2.9946	0.33	X
375	8	1401	55	-5	188	-0.7	6.4	17.6	1.48629	1.68710	-0.26519	0.00981	4.4312	0.04	M
376	8	1402	55	5	61	1.3	8.0	14.5	-1.83029	3.99718	-0.58851	0.02317	3.4468	0.13	M
377	5	1403	55	15	20	1.3	9.2	10.5	-688.51857	249.46523	-28.99335	1.10502	2.1208	0.40	X
378	5	1404	55	25	18	5.3	8.5	11.7	47.41911	-5.69639	0.30134	-0.01229	3.1129	0.78	X
379	5	1405	55	35	60	3.4	7.3	11.6	15.61355	-3.59981	-0.54370	0.01857	5.0746	0.50	X
380	5	1406	55	45	585	-1.3	4.8	39.9	4.63596	2.21994	-0.26190	0.00607	6.6989	0.04	B
381	5	1407	55	55	651	-1.6	2.9	8.9	7.43027	1.54679	-0.18146	-0.01562	5.0228	0.16	M
382	5	1408	55	65	34	-0.9	1.6	9.9	5.42696	-1.55567	0.01205	-0.07521	4.5002	0.02	M
383	6	1414	55	125	90	5.9	9.1	12.4	107.78719	-26.69230	2.90031	-0.12272	4.7381	0.43	X
384	6	1415	55	135	2557	0.6	5.2	15.3	20.38864	0.70295	-0.37021	0.01631	9.2568	0.14	X
385	6	1416	55	145	528	0.9	5.8	15.9	15.29795	9.75570	-2.36807	0.12348	8.2900	0.52	X
386	6	1417	55	155	990	-2.9	5.3	9.4	6.69821	3.47294	-0.82972	0.04188	7.7748	0.17	M
387	6	1418	55	165	2536	-4.6	4.6	10.0	10.69303	3.91307	-0.72493	0.02989	9.6202	0.21	X
388	6	1419	55	175	351	-1.7	3.2	9.0	-22.18231	3.54859	-1.36738	0.08560	9.0480	0.17	M
389	6	1420	55	-175	75	-2.1	3.8	8.5	-29.07227	20.50809	-2.83858	0.13654	10.5128	0.11	X
390	9	1421	65	-165	115	-0.7	4.0	11.9	3.96635	5.89653	-0.71763	0.01988	12.7616	0.05	B
391	10	1500	65	-15	7	-2.9	4.5	16.9	64.71431	-33.56730	5.71613	-0.27662	0.5237	0.97	X
392	10	1501	65	-5	325	-0.8	6.7	15.1	1.76066	-0.58427	0.11253	-0.00583	0.6928	0.19	X

OBS	AREA	TENSQ	LAT	LON	TNNC	TNTL	TNTH	TNTH	TNIC	TN1SC	TN2SC	TN3SC	TNEC	TNARC	TNQUAL
393	10	1502	65	5	558	-2.5	3.8	17.3	4.24927	0.47529	-0.22274	0.01396	3.5019	0.17	M
394	10	1503	65	15	983	-1.8	2.5	11.9	4.98588	-0.94577	0.07848	0.00005	4.2408	0.09	M
395	10	1504	65	25	2391	-4.9	4.9	22.3	9.28668	0.69626	-0.18011	0.00474	4.5551	0.22	X
396	10	1505	65	35	218	-1.2	5.6	11.6	9.33213	0.64096	0.14919	-0.02249	4.6526	0.21	X
397	10	1506	65	45	81	-1.0	2.7	7.8	0.98658	0.51840	0.79680	-0.09578	5.0095	0.40	X
398	10	1507	65	55	419	-1.7	3.0	8.4	3.35928	0.18941	0.84111	-0.12557	5.4515	0.20	X
399	10	1508	65	65	825	-1.6	0.5	8.4	4.10774	0.10804	0.60753	-0.08847	4.2787	0.10	X
400	10	1510	65	85	58	-1.7	0.7	9.0	10.24480	-1.72183	0.35845	-0.02272	1.4038	0.66	X
401	10	1511	65	95	13	-1.1	3.3	8.5	4.48409	-2.65975	0.98714	-0.08092	1.0266	0.81	X
402	10	1512	65	105	27	-1.5	-0.8	-0.1	3.10600	-25.33909	-31.77284	-14.17506	6.5550	-0.08	M
403	10	1515	65	135	11	0.1	4.0	11.3	2.54271	7.15677	-1.56721	0.08131	1.7062	0.65	X
404	6	1516	65	145	1520	0.4	4.1	11.8	-1.69586	11.64123	-2.31638	0.11912	6.3424	0.26	X
405	6	1517	65	155	431	4.3	3.5	8.5	-0.61196	13.89439	-3.12499	0.18268	2.8200	0.74	X
406	6	1518	65	165	415	-1.9	2.6	12.2	7.99994	-3.19159	0.48261	-0.02499	4.2225	0.58	M
407	10	1518	65	165	254	-1.7	2.9	8.8	1.50003	-0.14220	0.03621	-0.00564	2.6371	0.02	M
408	6	1519	65	175	457	-1.8	1.2	8.6	15.51384	-0.40375	-0.84680	0.08256	7.6186	0.35	X
409	10	1519	65	175	210	-1.8	3.3	7.8	4.96739	-0.52371	-0.04239	-0.00187	3.0605	0.31	X
410	6	1520	65	-175	14	-1.6	2.9	5.9	17.08016	0.40133	-1.52785	0.17635	3.7927	0.69	X
411	10	1520	65	-175	72	-2.2	-1.2	0.9	0.16034	-0.73338	-1.09897	0.17936	3.2193	0.13	X
412	10	1521	65	-165	6	-1.4	-0.8	0.2	-4.19083	16.03645	79.37729	46.94079	0.7569	0.89	X
413	9	1535	65	-25	42	1.4	10.0	15.9	0.81503	0.41813	-0.06550	0.00234	0.3077	0.79	M
414	10	1600	75	-15	79	0.2	3.6	9.7	5.60831	-3.04544	0.81078	-0.05711	2.1440	0.08	X
415	10	1601	75	-5	8	0.4	4.5	8.0	6.71225	-0.68173	0.22738	-0.03025	0.4482	0.97	X
416	10	1602	75	5	169	-4.9	3.4	9.4	2.39301	-0.65749	0.32895	-0.02947	4.7755	0.10	M
417	10	1603	75	15	183	-1.7	0.6	5.0	1.21011	0.04662	-0.21805	0.03298	0.7683	0.18	X
418	10	1608	75	65	216	-1.7	-0.1	6.1	9.51949	-0.16672	-1.48028	0.21006	4.4454	0.15	X
419	10	1609	75	75	976	-1.6	-0.2	5.9	8.97921	0.06870	-1.55513	0.22425	4.4873	0.16	X
420	10	1610	75	85	59	-1.8	-1.7	-1.0	-142.96200	-308.29585	-205.23890	-44.89818	1.9930	-0.18	X
421	10	1611	75	95	51	-1.6	-0.9	2.5	1.57209	-2.40044	1.32507	-0.25706	4.2069	0.30	X
422	10	1615	75	135	29	-1.7	-0.3	5.6	4.99747	0.08752	-0.26108	-0.02506	3.5155	-0.05	X
423	10	1616	75	145	780	-1.8	-0.4	6.4	6.56987	-0.01307	-1.04635	0.14484	5.8352	0.05	X
424	10	1617	75	155	556	-1.7	0.5	7.4	5.82298	-0.37080	-0.72458	0.10150	5.3102	0.12	X
425	10	1618	75	165	181	-2.2	0.8	7.1	1.91501	-2.49982	1.04989	-0.10990	4.4078	0.36	X
426	10	1619	75	175	63	-1.8	0.1	7.9	2.92706	-1.38705	0.20789	-0.00998	4.0532	0.22	X
427	10	1620	75	-175	275	-1.8	-0.6	1.9	0.32717	0.29873	0.16432	-0.73610	1.5538	0.43	X
428	10	1621	75	-165	105	-1.7	-0.9	0.3	0.13960	-3.27922	-7.37784	-4.13313	1.7317	0.31	X
429	10	1622	75	-155	35	-1.7	-1.6	-1.3	-1306.26375	-2710.89081	-1870.54311	-429.84309	2.2612	0.24	X
430	10	1624	75	-135	74	-1.6	-1.5	-1.1	-58.92381	84.96584	44.43298	7.65577	2.2178	0.12	X
431	10	1625	75	-125	212	-1.8	-1.7	-0.7	-5.53061	-53.99560	-60.22115	-18.67025	2.4364	0.11	X
432	10	1626	75	-115	62	-1.8	-1.6	-1.4	283.91043	585.68777	397.86891	88.71986	1.0373	0.12	X
433	10	1633	75	-45	16	-0.7	1.0	4.2	5.70096	-0.79488	0.09807	-0.01290	0.5725	0.77	X
434	10	1634	75	-35	307	-1.7	3.3	9.5	6.86239	0.51156	-0.31295	0.01902	2.5516	0.28	X
435	10	1635	75	-25	173	-1.5	5.0	10.7	2.35032	0.77520	-0.02527	-0.00841	1.7279	0.27	X
436	10	1700	85	-15	18	0.9	3.1	5.0	-0.52559	1.45180	0.53409	-0.16188	1.0852	0.59	X
437	10	1708	85	65	63	-1.7	-0.2	4.7	7.23231	-0.92418	-1.49497	0.30696	3.2652	0.29	X
438	10	1710	85	85	448	-1.8	-1.2	0.5	9.59636	-0.08658	24.94629	16.24892	4.3748	0.52	X
439	10	1711	85	95	19	-1.7	-1.5	-1.1	-71.44747	33.52220	172.09512	75.69067	3.3087	0.67	X
440	10	1712	85	105	350	-1.7	-1.0	0.4	11.00458	0.85866	18.48377	12.36442	4.4211	0.43	X
441	10	1714	85	125	55	-1.7	-0.9	0.4	10.59187	3.12283	17.67749	10.44235	3.9395	0.35	X
442	10	1715	85	135	7	-1.7	-1.6	-1.3	-5541.96968	-11139.6	-7409.35413	-1632.62055	0.5999	0.97	X
443	10	1717	85	155	94	-1.7	-0.7	0.5	11.42852	-1.09318	10.57492	7.93883	3.6817	0.37	X

TEMPERATURE VS. NITRATE VARIANCE-COVARIANCE MATRIX

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
1	1	102	-75	5	177706767	314476072	185152526	36268801
2	1	102	-75	5	314476072	556570941	327726635	64204337
3	1	102	-75	5	185152526	327726635	192997727	37814131
4	1	102	-75	5	36268801	64204337	37814131	7409784
5	1	103	-75	15	4.082834	0.448153	-7.837174	-3.835141
6	1	103	-75	15	9.448153	4.020168	-2.622664	-2.726711
7	1	103	-75	15	-7.837174	-2.622664	20.167051	10.838696
8	1	103	-75	15	-3.835141	-2.726711	10.838696	6.372958
9	1	104	-75	25	0.494197	-0.118876	-0.432696	-0.116401
10	1	104	-75	25	-0.118876	1.006528	0.115719	-0.259960
11	1	104	-75	25	-0.432696	0.115719	0.934771	0.398337
12	1	104	-75	25	-0.116401	-0.259960	0.398337	0.280043
13	1	105	-75	35	1.928922	-0.445732	-2.716843	-1.022067
14	1	105	-75	35	-0.445732	1.846527	2.154871	0.549300
15	1	105	-75	35	-2.716843	2.154871	6.294056	2.291630
16	1	105	-75	35	-1.022067	0.549300	2.291630	0.909906
17	1	106	-75	45	1.490847	-2.207174	-4.016207	-1.276036
18	1	106	-75	45	-2.207174	10.596186	13.586602	3.873434
19	1	106	-75	45	-4.016207	13.586602	21.099320	6.729591
20	1	106	-75	45	-1.276036	3.873434	6.729591	2.286446
21	1	107	-75	55	1.132835	-2.885570	-4.794938	-1.566868
22	1	107	-75	55	-2.885570	14.076153	19.532291	5.971437
23	1	107	-75	55	-4.794938	19.532291	32.102889	10.890828
24	1	107	-75	55	-1.566868	5.971437	10.890828	3.907828
25	1	111	-75	95	0.786692	-0.298535	-0.303332	0.072217
26	1	111	-75	95	-0.298505	1.670715	-0.024499	-0.599782
27	1	111	-75	95	-0.303332	-0.024499	0.198066	0.046370
28	1	111	-75	95	0.072217	-0.599782	0.046370	0.240141
29	1	112	-75	105	2.165544	-1.056418	-1.507592	0.795280
30	1	112	-75	105	-1.056418	3.139235	1.208465	-1.593344
31	1	112	-75	105	-1.507592	1.208465	1.440085	-0.929231
32	1	112	-75	105	0.795280	-1.593344	-0.929231	0.957504
33	1	113	-75	115	1.313665	-0.201580	-0.705131	0.179038
34	1	113	-75	115	-0.201580	3.215042	0.365534	-1.447633
35	1	113	-75	115	-0.705131	0.365534	0.627965	-0.312138
36	1	113	-75	115	0.179038	-1.447633	-0.312138	0.751623
37	1	117	-75	155	0.667890	0.216653	-0.350682	-0.137293
38	1	117	-75	155	0.216653	0.991869	-0.221577	-0.456559
39	1	117	-75	155	-0.350682	-0.221577	0.221021	0.127878
40	1	117	-75	155	-0.137293	-0.456554	0.127878	0.222392
41	1	118	-75	165	0.709261	0.433847	-0.458816	-0.271484
42	1	118	-75	165	0.433847	1.153222	-0.429698	-0.572115
43	1	118	-75	165	-0.458816	-0.429698	0.380641	0.268980
44	1	118	-75	165	-0.271484	-0.572115	0.268980	0.311735
45	1	119	-75	175	0.318740	0.080780	-0.141075	-0.063362
46	1	119	-75	175	0.080780	0.263418	-0.092918	-0.129493
47	1	119	-75	175	-0.141075	-0.092918	0.120945	0.069341
48	1	119	-75	175	-0.063362	-0.129493	0.069341	0.074948
49	1	120	-75	-175	1.019311	0.462413	-0.120913	0.005628
50	1	120	-75	-175	0.462413	0.426787	-0.069700	0.002460
51	1	120	-75	-175	-0.120413	-0.069700	0.032929	-0.001906
52	1	120	-75	-175	0.005628	0.002460	-0.001906	0.000125
53	1	121	-75	-165	1.847646	0.638883	-0.211983	0.009726
54	1	121	-75	-165	0.638883	0.444173	-0.044176	0.000985
55	1	121	-75	-165	-0.211983	-0.044176	0.057588	-0.003127
56	1	121	-75	-165	0.009726	0.000985	-0.003127	0.000175

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
57	1	200	-65	-15	1.308159	-5.197600	6.067218	-2.075020
58	1	200	-65	-15	-5.197600	21.772609	-26.190459	9.106774
59	1	200	-65	-15	6.067218	-26.190459	32.081341	-11.271087
60	1	200	-65	-15	-2.075020	9.106774	-11.271087	3.984811
61	1	201	-65	-5	12.722883	-9.973131	2.193036	-0.134516
62	1	201	-65	-5	-9.973131	10.631759	-2.702839	0.177594
63	1	201	-65	-5	2.193038	-2.702839	0.736255	-0.049990
64	1	201	-65	-5	-0.134518	0.177594	-0.049990	0.003457
65	1	203	-65	15	2.970051	-0.941144	-5.866815	-2.514453
66	1	203	-65	15	-0.941144	3.231981	1.883926	-0.245503
67	1	203	-65	15	-5.866815	1.883926	16.333823	7.780857
68	1	203	-65	15	-2.514453	-0.245503	7.780857	4.208625
69	1	204	-65	25	1.055953	-0.139232	-1.732791	-0.737188
70	1	204	-65	25	-0.139232	2.141243	0.561810	-0.455523
71	1	204	-65	25	-1.732791	0.561810	5.730383	2.764627
72	1	204	-65	25	-0.737188	-0.455523	2.764627	1.654367
73	1	205	-65	35	0.524062	-0.112247	-0.718725	-0.261868
74	1	205	-65	35	-0.112247	1.344914	0.353942	-0.345985
75	1	205	-65	35	-0.718725	0.353942	2.352292	1.105284
76	1	205	-65	35	-0.261868	-0.345985	1.105284	0.782515
77	1	206	-65	45	0.234443	-0.085390	-0.134439	0.010211
78	1	206	-65	45	-0.085390	0.953237	0.058375	-0.340742
79	1	206	-65	45	-0.134439	0.058375	0.265434	0.076734
80	1	206	-65	45	0.010211	-0.340742	0.076734	0.193298
81	1	207	-65	55	0.223608	-0.029990	-0.002240	0.000184
82	1	207	-65	55	-0.029990	0.129832	-0.017583	0.000579
83	1	207	-65	55	-0.002240	-0.017583	0.004285	-0.000187
84	1	207	-65	55	0.000184	0.000579	-0.000187	0.000009
85	1	208	-65	65	0.161754	-0.063948	0.005477	-0.000132
86	1	208	-65	65	-0.063948	0.079187	-0.009470	0.000285
87	1	208	-65	65	0.005477	-0.009470	0.001481	-0.000052
88	1	208	-65	65	-0.000132	0.000285	-0.000052	0.000002
89	1	209	-65	75	0.856135	-0.010647	-0.241424	0.038219
90	1	209	-65	75	-0.010647	0.183234	-0.061339	0.004560
91	1	209	-65	75	-0.241424	-0.061339	0.125549	-0.019014
92	1	209	-65	75	0.038219	0.004560	-0.019014	0.003158
93	1	210	-65	85	0.939640	-0.054321	-0.379295	0.078594
94	1	210	-65	85	-0.054321	0.192368	-0.021977	-0.008475
95	1	210	-65	85	-0.379295	-0.021977	0.228097	-0.047326
96	1	210	-65	85	0.078594	-0.008475	-0.047326	0.011833
97	1	211	-65	95	0.167807	-0.004878	-0.075310	0.017731
98	1	211	-65	95	-0.004878	0.059404	-0.029879	0.003154
99	1	211	-65	95	-0.075310	-0.029879	0.064996	-0.014326
100	1	211	-65	95	0.017731	0.003154	-0.014326	0.003615
101	1	212	-65	105	0.253549	-0.136547	-0.008830	0.006568
102	1	212	-65	105	-0.136547	0.533218	-0.313838	0.045284
103	1	212	-65	105	-0.008830	-0.313838	0.236714	-0.038430
104	1	212	-65	105	0.006568	0.045284	-0.038430	0.006723
105	1	213	-65	115	0.260290	-0.082290	-0.092207	0.030087
106	1	213	-65	115	-0.082290	0.143065	-0.019300	-0.009062
107	1	213	-65	115	-0.092207	-0.019300	0.089896	-0.024330
108	1	213	-65	115	0.030087	-0.009062	-0.024330	0.008919
109	1	214	-65	125	0.273214	-0.077563	-0.095796	0.028301
110	1	214	-65	125	-0.077563	0.176546	-0.029313	-0.008521
111	1	214	-65	125	-0.095796	-0.029313	0.103326	-0.025792
112	1	214	-65	125	0.028301	-0.008521	-0.025792	0.008956

OBS	AREA	TENSQ	LAT	LON	TN1C	TN1SC	TN2SC	TN3SC
113	1	215	-65	135	0.527028	-0.139608	-0.654928	0.319269
114	1	215	-65	135	-0.139608	0.469556	0.068097	-0.176459
115	1	215	-65	135	-0.654928	0.068097	1.287450	-0.634460
116	1	215	-65	135	0.319269	-0.176459	-0.634460	0.371440
117	1	216	-65	145	0.315873	0.004081	-0.350829	0.114033
118	1	216	-65	145	0.004081	0.476770	0.012984	-0.278706
119	1	216	-65	145	-0.350829	0.012984	0.639174	-0.302373
120	1	216	-65	145	0.114033	-0.278706	-0.302373	0.346029
121	1	217	-65	155	0.061922	0.014951	-0.020727	-0.002737
122	1	217	-65	155	0.014951	0.119166	0.001734	-0.036097
123	1	217	-65	155	-0.020727	0.001734	0.011809	-0.002532
124	1	217	-65	155	-0.002737	-0.036097	-0.002532	0.012281
125	1	218	-65	165	0.621814	-0.206414	-0.241427	0.062149
126	1	218	-65	165	-0.206414	0.209037	0.072712	-0.029022
127	1	218	-65	165	-0.241427	0.072712	0.142371	-0.035389
128	1	218	-65	165	0.062149	-0.029022	-0.035389	0.010212
129	1	219	-65	175	0.862310	-0.501263	-0.363687	0.182605
130	1	219	-65	175	-0.501263	0.966647	0.201581	-0.316255
131	1	219	-65	175	-0.363687	0.201581	0.233795	-0.097876
132	1	219	-65	175	0.182605	-0.316255	-0.097876	0.129365
133	1	220	-65	-175	0.103469	0.000934	-0.002522	0.000133
134	1	220	-65	-175	0.000934	0.014477	-0.002096	0.000072
135	1	220	-65	-175	-0.004922	-0.002096	0.000466	-0.000021
136	1	220	-65	-175	0.000133	0.000072	-0.000021	0.000001
137	1	221	-65	-165	0.258916	-0.049261	0.002543	-0.000037
138	1	221	-65	-165	-0.049261	0.038143	-0.004088	0.000108
139	1	221	-65	-165	0.003543	-0.004088	0.000530	-0.000016
140	1	221	-65	-165	-0.000037	0.000108	-0.000016	0.000009
141	1	222	-65	-155	0.119626	-0.021232	0.001024	-0.000013
142	1	222	-65	-155	-0.021232	0.030858	-0.002075	0.000052
143	1	222	-65	-155	0.001024	-0.002075	0.000248	-0.000007
144	1	222	-65	-155	-0.000013	0.000052	-0.000007	0.000000
145	1	223	-65	-145	1.179261	-0.663153	-0.407850	0.218610
146	1	223	-65	-145	-0.663153	2.878798	0.372926	-0.841333
147	1	223	-65	-145	-0.407850	0.372926	0.211260	-0.136502
148	1	223	-65	-145	0.218610	-0.841333	-0.136502	0.263039
149	1	224	-65	-135	0.745193	-0.239535	-0.320162	0.119937
150	1	224	-65	-135	-0.239535	1.472051	0.242935	-0.516207
151	1	224	-65	-135	-0.320162	0.242633	0.216319	-0.122852
152	1	224	-65	-135	0.119937	-0.516207	-0.122852	0.202577
153	1	225	-65	-125	0.710072	0.133670	-0.294865	-0.067926
154	1	225	-65	-125	0.133670	1.461437	-0.058039	-0.516493
155	1	225	-65	-125	-0.294865	-0.058039	0.214690	0.070780
156	1	225	-65	-125	-0.067926	-0.516493	0.070780	0.215425
157	1	226	-65	-115	0.900462	-0.034822	-0.459063	-0.025906
158	1	226	-65	-115	-0.034822	1.728912	-0.135032	-0.744809
159	1	226	-65	-115	-0.459063	-0.135032	0.374894	0.091751
160	1	226	-65	-115	-0.025906	-0.744804	0.091751	0.376566
161	1	227	-65	-105	7.966297	-4.224906	-16.335419	-6.369540
162	1	227	-65	-105	-4.224906	11.727758	10.837935	1.590991
163	1	227	-65	-105	-16.335419	10.837935	50.002250	21.591245
164	1	227	-65	-105	-6.369540	1.590991	21.591245	10.495999
165	1	228	-65	-95	2.729017	0.342524	-2.110428	-0.757373
166	1	228	-64	-95	0.342934	2.857288	-1.046217	-1.553751
167	1	228	-65	-95	-2.110458	-1.046217	2.253676	1.183655
168	1	228	-65	-95	-0.757373	-1.553751	1.183655	1.121399

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
169	1	229	-65	-85	0.063841	-0.017744	-0.068793	0.028805
170	1	229	-65	-85	-0.017744	0.204303	0.052614	-0.188133
171	1	229	-65	-85	-0.068793	0.052614	0.099529	-0.070931
172	1	229	-65	-85	0.028805	-0.188133	-0.070931	0.191983
173	1	230	-65	-75	2.808996	-0.876021	-1.157752	0.385695
174	1	230	-65	-75	-0.876021	6.553926	0.818787	-2.304386
175	1	230	-65	-75	-1.157752	0.818787	0.738985	-0.340215
176	1	230	-65	-75	0.385695	-2.304386	-0.340215	0.890306
177	1	231	-65	-65	0.100905	-0.043887	-0.302208	-0.147876
178	1	231	-65	-65	-0.043887	0.306759	0.333196	0.075733
179	1	231	-65	-65	-0.302208	0.333196	1.690346	0.859504
180	1	231	-65	-65	-0.147876	0.075733	0.859504	0.478191
181	1	232	-65	-55	0.028740	0.010845	-0.018864	-0.008316
182	1	232	-65	-55	0.010845	0.033672	-0.009647	-0.017251
183	1	232	-65	-55	-0.018864	-0.009647	0.016729	0.008692
184	1	232	-65	-55	-0.008316	-0.017251	0.008692	0.010938
185	1	233	-65	-45	0.020266	-0.013049	-0.064493	-0.029537
186	1	233	-65	-45	-0.013049	0.066166	0.097923	0.031937
187	1	233	-65	-45	-0.064493	0.097923	0.365672	0.169872
188	1	233	-65	-45	-0.029537	0.031937	0.169872	0.084138
189	2	301	-55	-5	134.582015	-65.326937	7.862374	-0.276418
190	2	301	-55	-5	-65.326937	34.555832	-4.558322	0.151401
191	2	301	-55	-5	7.862374	-4.558322	0.553778	-0.019323
192	2	301	-55	-5	-0.276418	0.151401	-0.019323	0.000708
193	2	302	-55	5	1.671706	0.101472	-0.211656	0.020218
194	2	302	-55	5	0.101472	0.372807	-0.036388	-0.001514
195	2	302	-55	5	-0.211656	-0.036388	0.069049	-0.007161
196	2	302	-55	5	0.020218	-0.001514	-0.007161	0.000876
197	2	303	-55	15	1.383618	-0.004407	-0.034811	0.001857
198	2	303	-55	15	-0.004407	0.337108	-0.045266	0.001497
199	2	303	-55	15	-0.034811	-0.045266	0.011004	-0.000504
200	2	303	-55	15	0.001857	0.001497	-0.000504	0.000026
201	2	304	-55	25	0.251436	-0.102867	0.007492	-0.000097
202	2	304	-55	25	-0.102867	0.144229	-0.020404	0.000733
203	2	304	-55	25	0.007492	-0.020404	0.004967	-0.000247
204	2	304	-55	25	-0.000097	0.000733	-0.000247	0.000014
205	2	305	-55	35	0.246453	-0.033464	-0.098184	0.023059
206	2	305	-55	35	-0.033464	0.151297	0.010242	-0.025360
207	2	305	-55	35	-0.098184	0.010242	0.075769	-0.019899
208	2	305	-55	35	0.023059	-0.025360	-0.019899	0.011302
209	2	306	-55	45	0.498003	-0.165095	0.011042	-0.000204
210	2	306	-55	45	-0.165095	0.137875	-0.010889	0.000219
211	2	306	-55	45	0.011042	-0.010889	0.000950	-0.000021
212	2	306	-55	45	-0.000204	0.000219	-0.000021	0.000000
213	2	307	-55	55	3.267781	-0.961801	0.063072	-0.001148
214	2	307	-55	55	-0.961801	0.428169	-0.031639	0.000614
215	2	307	-55	55	0.063072	-0.031639	0.002542	-0.000052
216	2	307	-55	55	-0.001148	0.000614	-0.000052	0.000001
217	2	308	-55	65	0.210798	-0.057909	0.004035	-0.000078
218	2	308	-55	65	-0.057909	0.021572	-0.001851	0.000040
219	2	308	-55	65	0.004035	-0.001851	0.000191	-0.000005
220	2	308	-55	65	-0.000078	0.000040	-0.000005	0.000000
221	3	309	-55	75	11.721201	-5.913572	0.908362	-0.043531
222	3	309	-55	75	-5.913572	3.713247	-0.493653	0.024235
223	3	309	-55	75	0.908362	-0.493653	0.080458	-0.004038
224	3	309	-55	75	-0.043531	0.024235	-0.004038	0.000206

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
225	3	310	-55	85	26.578358	-16.576675	3.186755	-0.188633
226	3	310	-55	85	-16.576675	10.613240	-2.080698	0.124938
227	3	310	-55	85	3.186755	-2.080698	0.414563	-0.025215
228	3	310	-55	85	-0.188633	0.124938	-0.025215	0.001552
229	3	311	-55	95	4.329684	-2.080562	0.583127	-0.036350
230	3	311	-55	95	-2.080562	2.053729	-0.437196	0.028307
231	3	311	-55	95	0.583127	-0.437196	0.096930	-0.006486
232	3	311	-55	95	-0.036350	0.028307	-0.006486	0.000447
233	3	312	-55	105	18.192090	-15.490660	4.003083	-0.318145
234	3	312	-55	105	-15.490660	13.382557	-3.586848	0.289683
235	3	312	-55	105	4.003083	-3.586848	0.965082	-0.079139
236	3	312	-55	105	-0.318145	0.289683	-0.079139	0.006580
237	3	313	-55	115	4.016387	-2.951555	0.645586	-0.042773
238	3	313	-55	115	-2.951555	2.335552	-0.539321	0.037243
239	3	313	-55	115	0.645586	-0.539321	0.130503	-0.009371
240	3	313	-55	115	-0.042773	0.037243	-0.009371	0.000698
241	3	314	-55	125	3.363075	-2.787767	0.703523	-0.054508
242	3	314	-55	125	-2.787767	2.777946	-0.796359	0.067057
243	3	314	-55	125	0.703523	-0.796359	0.247945	-0.021951
244	3	314	-55	125	-0.054508	0.067057	-0.021951	0.002003
245	3	315	-55	135	0.226110	-0.208185	0.057798	-0.004961
246	3	315	-55	135	-0.208185	0.561085	-0.277874	0.035874
247	3	315	-55	135	0.057798	-0.277874	0.156503	-0.021988
248	3	315	-55	135	-0.004961	0.035874	-0.021988	0.003182
249	3	316	-55	145	0.099490	-0.028384	-0.004577	0.000961
250	3	316	-55	145	-0.028384	0.070276	-0.025095	0.002198
251	3	316	-55	145	-0.004577	-0.025045	0.013636	-0.001422
252	3	316	-55	145	0.000961	0.002198	-0.001922	0.000158
253	3	317	-55	155	0.423425	-0.237349	0.035352	-0.001449
254	3	317	-55	155	-0.237349	0.383645	-0.099391	0.008070
255	3	317	-55	155	0.035352	-0.099391	0.038756	-0.003520
256	3	317	-55	155	-0.001449	0.008070	-0.003520	0.000337
257	3	318	-55	165	2.739816	-1.818270	0.332294	-0.017784
258	3	318	-55	165	-1.818270	1.440763	-0.290622	0.016532
259	3	318	-55	165	0.332594	-0.290622	0.063161	-0.003776
260	3	318	-55	165	-0.017784	0.016532	-0.003776	0.000234
261	3	319	-55	175	381.759986	-246.644180	48.468615	-2.964024
262	3	319	-55	175	-246.644180	161.830018	-32.172137	1.984570
263	3	319	-55	175	48.468615	-32.172137	6.462622	-0.402024
264	3	319	-55	175	-2.964024	1.984570	-0.402024	0.025188
265	3	321	-55	-165	17.170730	-10.501924	1.825458	-0.095252
266	3	321	-55	-165	-10.501924	6.802450	-1.221198	0.065061
267	3	321	-55	-165	1.825458	-1.221198	0.224595	-0.012184
268	3	321	-55	-165	-0.095252	0.065061	-0.012184	0.000671
269	3	322	-55	-155	1.860813	-0.623442	0.045737	-0.000918
270	3	322	-55	-155	-0.623442	0.253181	-0.020283	0.000431
271	3	322	-55	-155	0.045737	-0.020283	0.001820	-0.000042
272	3	322	-55	-155	-0.000918	0.000431	-0.000042	0.000001
273	3	323	-55	-145	1.509889	-0.185518	-0.416654	0.082321
274	3	323	-55	-145	-0.185518	0.713192	-0.268647	0.023632
275	3	323	-55	-145	-0.416654	-0.268647	0.378535	-0.064504
276	3	323	-55	-145	0.082321	0.023632	-0.064504	0.012614
277	4	324	-55	-135	3.261179	-3.026747	0.819479	-0.065931
278	4	324	-55	-135	-3.026747	3.345866	-1.003644	0.085876
279	4	324	-55	-135	0.819479	-1.003644	0.321343	-0.028627
280	4	324	-55	-135	-0.065931	0.085876	-0.028627	0.002622

OBS	AREA	TENSO	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
281	4	325	-55	-25	27.151512	14.266444	-13.018388	1.819525
282	4	325	-55	-25	14.266444	20.853556	-13.530239	1.759705
283	4	325	-55	-25	-13.018388	-13.530239	9.934997	-1.345270
284	4	325	-55	-25	1.819525	1.759705	-1.345270	0.184917
285	4	326	-55	-115	4.537065	-0.528222	-1.040747	0.196691
286	4	326	-55	-115	-0.528222	0.417009	-0.035605	-0.007472
287	4	326	-55	-115	-1.040747	-0.035605	0.353964	-0.062327
288	4	326	-55	-115	0.196691	-0.007472	-0.062327	0.011784
289	4	329	-55	-85	20.644310	77.111854	-125.651626	42.918784
290	4	329	-55	-85	77.111854	294.293068	-477.310928	162.378888
291	4	329	-55	-85	-125.651626	-477.310928	780.467635	-266.938562
292	4	329	-55	-85	42.918784	162.378888	-266.938562	91.646541
293	4	330	-55	-75	2.440073	-5.069826	2.804834	-0.445822
294	4	330	-55	-75	-5.069826	16.171075	-10.363734	1.771500
295	4	330	-55	-75	2.804834	-10.363734	7.013968	-1.238585
296	4	330	-55	-75	-0.445822	1.771500	-1.238585	0.224232
297	4	332	-55	-55	0.000000	0.000000	0.000000	0.000000
298	4	332	-55	-55	0.000000	0.000000	0.000000	0.000000
299	4	332	-55	-55	0.000000	0.000000	0.000000	0.000000
300	4	332	-55	-55	0.000000	0.000000	0.000000	0.000000
301	2	400	-45	-15	67.415605	-13.397943	0.729729	-0.011732
302	2	400	-45	-15	-13.397943	2.837182	-0.159244	0.002607
303	2	400	-45	-15	0.729729	-0.159244	0.009111	-0.000151
304	2	400	-45	-15	-0.011732	0.002607	-0.000151	0.000003
305	2	401	-45	-5	0.000000	0.000000	0.000000	0.000000
306	2	401	-45	-5	0.000000	0.000000	0.000000	0.000000
307	2	401	-45	-5	0.000000	0.000000	0.000000	0.000000
308	2	401	-45	-5	0.000000	0.000000	0.000000	0.000000
309	2	404	-45	25	5.746900	-3.117967	0.462115	-0.019726
310	2	404	-45	25	-3.117967	1.763957	-0.269641	0.011745
311	2	404	-45	25	0.462115	-0.269641	0.042652	-0.001903
312	2	404	-45	25	-0.019726	0.011745	-0.001903	0.000087
313	2	405	-45	35	11.666484	-8.989819	1.878014	-0.112731
314	2	405	-45	35	-8.989819	7.349428	-1.592725	0.097914
315	2	405	-45	35	1.878014	-1.592725	0.357588	-0.022580
316	2	405	-45	35	-0.112731	0.097914	-0.022580	0.001461
317	2	406	-45	45	2.258722	-0.695574	0.054603	-0.001130
318	2	406	-45	45	-0.695574	0.240826	-0.020022	0.000426
319	2	406	-45	45	0.054603	-0.020022	0.001742	-0.000038
320	2	406	-45	45	-0.001130	0.000426	-0.000038	0.000001
321	2	407	-45	55	0.916422	-0.347430	0.036895	-0.001150
322	2	407	-45	55	-0.347430	0.141478	-0.015804	0.000511
323	2	407	-45	55	0.036895	-0.015804	0.001856	-0.000062
324	2	407	-45	55	-0.001150	0.000511	-0.000062	0.000002
325	2	408	-45	65	2.890553	-0.884088	0.083777	-0.002488
326	2	408	-45	65	-0.884088	0.281314	-0.027558	0.000841
327	2	408	-45	65	0.083777	-0.027558	0.002784	-0.000087
328	2	408	-45	65	-0.002488	0.000841	-0.000087	0.000003
329	3	409	-45	75	132.389594	-50.050566	5.759310	-0.206562
330	3	409	-45	75	-50.050566	19.347963	-2.262182	0.082097
331	3	409	-45	75	5.759310	-2.262182	0.268106	-0.009839
332	3	409	-45	75	-0.206562	0.082097	-0.009839	0.000365
333	3	410	-45	85	88.487556	-35.943272	4.474590	-0.172533
334	3	410	-45	85	-35.943272	15.404609	-2.003336	0.079838
335	3	410	-45	85	4.474590	-2.003336	0.270799	-0.011119
336	3	410	-45	85	-0.172533	0.079838	-0.011119	0.000468

OBS	AREA	TENSQ	LAT	LON	TN1C	TN1SC	TN2SC	TN3SC
337	3	411	-45	95	379.218766	-149.984203	18.408804	-0.705066
338	3	411	-45	95	-149.984203	60.278252	-7.503217	0.290564
339	3	411	-45	95	18.408804	-7.503217	0.946778	-0.037074
340	3	411	-45	95	-0.705066	0.290564	-0.037074	0.001466
341	3	412	-45	105	279.527779	-104.467282	12.198514	-0.448012
342	3	412	-45	105	-104.467282	39.583398	-4.678638	0.173524
343	3	412	-45	105	12.198514	-4.678638	0.559557	-0.020960
344	3	412	-45	105	-0.448012	0.173524	-0.020960	0.000792
345	3	413	-45	115	764.098056	-303.095408	37.819333	-1.481239
346	3	413	-45	115	-303.095408	121.849065	-15.379222	0.607678
347	3	413	-45	115	37.819333	-15.379222	1.961606	-0.078158
348	3	413	-45	115	-1.481239	0.607678	-0.078158	0.003136
349	3	414	-45	125	65.150726	-26.957380	3.481317	-0.140275
350	3	414	-45	125	-26.957380	12.721219	-1.801333	0.077327
351	3	414	-45	125	3.481317	-1.801333	0.270890	-0.012101
352	3	414	-45	125	-0.140275	0.077327	-0.012101	0.000556
353	3	415	-45	135	84.778146	-34.542789	4.386269	-0.173489
354	3	415	-45	135	-34.542789	16.243504	-2.265718	0.095305
355	3	415	-45	135	4.386269	-2.265718	0.334310	-0.014568
356	3	415	-45	135	-0.173489	0.095305	-0.014568	0.000649
357	3	416	-45	145	1905.917619	-725.300324	87.277672	-3.305662
358	3	416	-45	145	-725.300324	279.016558	-33.867285	1.291136
359	3	416	-45	145	87.277672	-33.867285	4.141118	-0.158788
360	3	416	-45	145	-3.305662	1.291136	-0.158788	0.006118
361	3	417	-45	155	1353.632847	-478.748892	53.362542	-1.874925
362	3	417	-45	155	-478.748892	171.149291	-19.250339	0.681201
363	3	417	-45	155	53.362542	-19.250339	2.183130	-0.077778
364	3	417	-45	155	-1.874925	0.681201	-0.077778	0.002787
365	3	418	-45	165	12.178748	-4.367467	0.481930	-0.016513
366	3	418	-45	165	-4.367467	1.807139	-0.218493	0.007951
367	3	418	-45	165	0.481930	-0.218493	0.027944	-0.001055
368	3	418	-45	165	-0.016513	0.007951	-0.001055	0.000041
369	3	419	-45	175	17.852434	-6.263826	0.666525	-0.021900
370	3	419	-45	175	-6.263826	2.620724	-0.309236	0.010856
371	3	419	-45	175	0.666525	-0.309236	0.038712	-0.001412
372	3	419	-45	175	-0.021900	0.010856	-0.001412	0.000053
373	3	420	-45	-175	93.622902	-27.960676	2.588583	-0.075206
374	3	420	-45	-175	-27.960676	8.628980	-0.819502	0.024288
375	3	420	-45	-175	2.588583	-0.819502	0.079563	-0.002402
376	3	420	-45	-175	-0.075206	0.024288	-0.002402	0.000074
377	3	421	-45	-165	109.619090	-31.619330	2.853843	-0.081420
378	3	421	-45	-165	-31.619330	9.294603	-0.852014	0.024624
379	3	421	-45	-165	2.853843	-0.852014	0.079220	-0.002319
380	3	421	-45	-165	-0.081420	0.024624	-0.002319	0.000069
381	3	422	-45	-155	25.661520	-7.702417	0.717074	-0.020886
382	3	422	-45	-155	-7.702417	2.533441	-0.251776	0.007690
383	3	422	-45	-155	0.717074	-0.251776	0.026237	-0.000830
384	3	422	-45	-155	-0.020886	0.007690	-0.000830	0.000027
385	3	423	-45	-145	9.012061	-2.376171	0.198803	-0.005326
386	3	423	-45	-145	-2.376171	0.653786	-0.056329	0.001542
387	3	423	-45	-145	0.198803	-0.056329	0.004953	-0.000138
388	3	423	-45	-145	-0.005326	0.001542	-0.000138	0.000004
389	4	424	-45	-135	45.253788	-16.182071	1.798519	-0.062599
390	4	424	-45	-135	-16.182071	6.018737	-0.687774	0.024418
391	4	424	-45	-135	1.798519	-0.687774	0.080249	-0.002894
392	4	424	-45	-135	-0.062599	0.024418	-0.002894	0.000106

OBS	ÂRFA	TENSO	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
393	4	425	-45	-125	70.962952	-26.706486	3.099301	-0.112676
394	4	425	-45	-125	-26.706486	10.406222	-1.236285	0.045720
395	4	425	-45	-125	3.099301	-1.236285	0.149454	-0.005604
396	4	425	-45	-125	-0.112676	0.045720	-0.005604	0.000213
397	4	426	-45	-115	110.543252	-35.891729	3.566990	-0.108637
398	4	426	-45	-115	-35.891729	12.170809	-1.245188	0.038662
399	4	426	-45	-115	3.566990	-1.245188	0.130057	-0.004098
400	4	426	-45	-115	-0.108637	0.038662	-0.004098	0.000131
401	4	427	-45	-105	319756	-118878	14469.6	-578.473149
402	4	427	-45	-105	-118878	44235.1	-5388.9	215.622145
403	4	427	-45	-105	14469.6	-5388.9	697.083080	-26.314552
404	4	427	-45	-105	-578.473149	215.622145	-26.314552	1.054763
405	4	430	-45	-75	14.864173	-7.626255	1.044827	-0.041334
406	4	430	-45	-75	-7.626255	4.212605	-0.607795	0.024857
407	4	430	-45	-75	1.044827	-0.607795	0.092819	-0.003944
408	4	430	-45	-75	-0.041334	0.024857	-0.003944	0.000172
409	4	431	-45	-65	153.891139	-63.852589	7.825983	-0.293200
410	4	431	-45	-65	-63.852589	27.315756	-3.413122	0.129533
411	4	431	-45	-65	7.825983	-3.413122	0.432919	-0.016613
412	4	431	-45	-65	-0.293200	0.129533	-0.016613	0.000643
413	2	500	-35	-15	23.213404	-7.168149	0.630523	-0.016483
414	2	500	-35	-15	-7.168149	2.366090	-0.216050	0.005778
415	2	500	-35	-15	0.630523	-0.216050	0.020261	-0.000552
416	2	500	-35	-15	-0.016483	0.005778	-0.000552	0.000015
417	2	501	-35	-5	14.839080	-4.496940	0.376179	-0.009348
418	2	501	-35	-5	-4.496940	1.435520	-0.123602	0.003131
419	2	501	-35	-5	0.376179	-0.123602	0.010900	-0.000281
420	2	501	-35	-5	-0.009348	0.003131	-0.000281	0.000007
421	2	504	-35	25	6.918449	-2.384897	0.221296	-0.006065
422	2	504	-35	25	-2.384897	0.856453	-0.081369	0.002267
423	2	504	-35	25	0.221296	-0.081369	0.007909	-0.000225
424	2	504	-35	25	-0.006065	0.002267	-0.000225	0.000007
425	2	505	-35	35	2.881635	-0.847234	0.068417	-0.001633
426	2	505	-35	35	-0.847234	0.260537	-0.021549	0.000522
427	2	505	-35	35	0.068417	-0.021549	0.001817	-0.000045
428	2	505	-35	35	-0.001633	0.000522	-0.000045	0.000001
429	2	506	-35	45	0.616618	-0.148383	0.009935	-0.000199
430	2	506	-35	45	-0.148383	0.038982	-0.002730	0.000056
431	2	506	-35	45	0.009935	-0.002730	0.000197	-0.000004
432	2	506	-35	45	-0.000199	0.000056	-0.000004	0.000000
433	2	507	-35	55	0.425816	-0.116087	0.009017	-0.000210
434	2	507	-35	55	-0.116087	0.033943	-0.002750	0.000066
435	2	507	-35	55	0.009017	-0.002750	0.000231	-0.000006
436	2	507	-35	55	-0.000210	0.000066	-0.000006	0.000000
437	3	508	-35	65	21808.1	-4378.71	286.300771	-6.092531
438	3	508	-35	65	-4378.71	880.604346	-57.665601	1.228845
439	3	508	-35	65	286.300771	-57.665601	3.781757	-0.080702
440	3	508	-35	65	-6.092531	1.228845	-0.080702	0.001725
441	3	509	-35	75	35.050115	-11.299613	1.069706	-0.030729
442	3	509	-35	75	-11.299613	3.816166	-0.372341	0.010924
443	3	509	-35	75	1.069706	-0.372341	0.037234	-0.001114
444	3	509	-35	75	-0.030729	0.010924	-0.001114	0.000034
445	3	510	-35	85	6.120086	-1.835551	0.157622	-0.004074
446	3	510	-35	85	-1.835551	0.580413	-0.051510	0.001362
447	3	510	-35	85	0.157622	-0.051510	0.004700	-0.000127
448	3	510	-35	85	-0.004074	0.001362	-0.000127	0.000004

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
449	3	511	-35	95	20.959326	-6.271997	0.566280	-0.015904
450	3	511	-35	95	-6.271997	1.917445	-0.176027	0.005010
451	3	511	-35	95	0.566280	-0.176027	0.016420	-0.000474
452	3	511	-35	95	-0.015904	0.005010	-0.000474	0.000014
453	3	512	-35	105	82.703930	-26.222209	2.577213	-0.079821
454	3	512	-35	105	-26.222209	8.403045	-0.833726	0.026031
455	3	512	-35	105	2.577213	-0.833726	0.083522	-0.002631
456	3	512	-35	105	-0.079821	0.026031	-0.002631	0.000084
457	3	513	-35	115	212.688058	-61.197760	5.484809	-0.155939
458	3	513	-35	115	-61.197760	17.772797	-1.605540	0.045955
459	3	513	-35	115	5.484809	-1.605540	0.146172	-0.004214
460	3	513	-35	115	-0.155939	0.045955	-0.004214	0.000122
461	3	514	-35	125	88.621829	-23.190038	1.860537	-0.046880
462	3	514	-35	125	-23.190038	6.155081	-0.499940	0.012725
463	3	514	-35	125	1.860537	-0.499940	0.041119	-0.001058
464	3	514	-35	125	-0.046880	0.012725	-0.001058	0.000027
465	3	515	-35	135	11.219398	-3.681365	0.352301	-0.010248
466	3	515	-35	135	-3.681365	1.390207	-0.145579	0.004502
467	3	515	-35	135	0.352301	-0.145579	0.016316	-0.000529
468	3	515	-35	135	-0.010248	0.004502	-0.000529	0.000018
469	3	516	-35	145	30.017781	-9.301462	0.842937	-0.023284
470	3	516	-35	145	-9.301462	3.115301	-0.298777	0.008601
471	3	516	-35	145	0.842937	-0.298777	0.030155	-0.000902
472	3	516	-35	145	-0.023284	0.008601	-0.000902	0.000028
473	3	517	-35	155	96.242660	-32.760148	3.476510	-0.114948
474	3	517	-35	155	-32.760148	11.275170	-1.207929	0.040228
475	3	517	-35	155	3.476510	-1.207929	0.130563	-0.004379
476	3	517	-35	155	-0.114948	0.040228	-0.004379	0.000148
477	3	518	-35	165	6.764359	-2.148575	0.199982	-0.005659
478	3	518	-35	165	-2.148575	0.808696	-0.083046	0.002503
479	3	518	-35	165	0.199982	-0.083046	0.009088	-0.000286
480	3	518	-35	165	-0.005659	0.002503	-0.000286	0.000009
481	3	519	-35	175	74.584788	-23.984982	2.364783	-0.072781
482	3	519	-35	175	-23.984982	8.410270	-0.880583	0.028285
483	3	519	-35	175	2.364783	-0.880583	0.096380	-0.003197
484	3	519	-35	175	-0.072781	0.028285	-0.003197	0.000109
485	3	520	-35	-175	29.741616	-7.361435	0.547271	-0.012573
486	3	520	-35	-175	-7.361435	1.949731	-0.151557	0.003599
487	3	520	-35	-175	0.547271	-0.151557	0.012193	-0.000298
488	3	520	-35	-175	-0.012573	0.003599	-0.000298	0.000007
489	3	521	-35	-165	58.896658	-14.799125	1.133697	-0.027025
490	3	521	-35	-165	-14.799125	3.802080	-0.295830	0.007133
491	3	521	-35	-165	1.133697	-0.295830	0.023313	-0.000568
492	3	521	-35	-165	-0.027025	0.007133	-0.000568	0.000014
493	3	522	-35	-155	1.576074	-0.296017	0.017903	-0.000350
494	3	522	-35	-155	-0.296017	0.057356	-0.003555	0.000071
495	3	522	-35	-155	0.017903	-0.003555	0.000225	-0.000005
496	3	522	-35	-155	-0.000350	0.000071	-0.000005	0.000000
497	4	523	-35	-145	22.539035	-6.269254	0.536485	-0.014478
498	4	523	-35	-145	-6.269254	1.823702	-0.160335	0.004407
499	4	523	-35	-145	0.536485	-0.160335	0.014339	-0.000399
500	4	523	-35	-145	-0.014478	0.004407	-0.000399	0.000011
501	4	524	-35	-135	4.467887	-1.310219	0.115924	-0.003170
502	4	524	-35	-135	-1.310219	0.435282	-0.041549	0.001195
503	4	524	-35	-135	0.115924	-0.041549	0.004164	-0.000124
504	4	524	-35	-135	-0.003170	0.001195	-0.000124	0.000004

OBS	AREA	TENSQ	LAT	LON	THIC	TN1SC	TN2SC	TN3SC
505	4	525	-35	-125	96.151203	-25.157978	2.025044	-0.050460
506	4	525	-35	-125	-25.157978	6.758126	-0.554076	0.013984
507	4	525	-35	-125	2.025044	-0.554076	0.046072	-0.001175
508	4	525	-35	-125	-0.050460	0.013984	-0.001175	0.000030
509	4	526	-35	-115	1.083375	-0.261272	0.018681	-0.000414
510	4	526	-35	-115	-0.261272	0.066540	-0.004923	0.000112
511	4	526	-35	-115	0.018681	-0.004923	0.000374	-0.000009
512	4	526	-35	-115	-0.000414	0.000112	-0.000009	0.000000
513	4	527	-35	-105	58.010994	-16.161018	1.354122	-0.034908
514	4	527	-35	-105	-16.161018	4.672038	-0.401645	0.010552
515	4	527	-35	-105	1.354122	-0.401645	0.035272	-0.000943
516	4	527	-35	-105	-0.034908	0.010552	-0.000943	0.000026
517	4	528	-35	-95	85.426448	-26.714720	2.555497	-0.076501
518	4	528	-35	-95	-26.714720	8.524716	-0.827001	0.025019
519	4	528	-35	-95	2.555497	-0.827001	0.081150	-0.002478
520	4	528	-35	-95	-0.076501	0.025019	-0.002478	0.000076
521	4	529	-35	-85	258.734573	-80.899727	7.896920	-0.244620
522	4	529	-35	-85	-80.899727	25.595416	-2.521080	0.078667
523	4	529	-35	-85	7.896920	-2.521080	0.250277	-0.007864
524	4	529	-35	-85	-0.244620	0.078667	-0.007864	0.000249
525	4	530	-35	-75	42.585667	-10.722587	0.824573	-0.019605
526	4	530	-35	-75	-10.722587	2.774353	-0.217539	0.005249
527	4	530	-35	-75	0.824573	-0.217539	0.017333	-0.000424
528	4	530	-35	-75	-0.019605	0.005249	-0.000424	0.000011
529	4	531	-35	-65	47.719022	-11.944937	0.925614	-0.022526
530	4	531	-35	-65	-11.944937	3.055247	-0.240514	0.005926
531	4	531	-35	-65	0.925614	-0.240514	0.019183	-0.000478
532	4	531	-35	-65	-0.022526	0.005926	-0.000478	0.000012
533	4	532	-35	-55	251.591930	-58.325442	4.246464	-0.097913
534	4	532	-35	-55	-58.325442	13.723182	-1.010467	0.023509
535	4	532	-35	-55	4.246464	-1.010467	0.075111	-0.001762
536	4	532	-35	-55	-0.097913	0.023509	-0.001762	0.000042
537	4	533	-35	-45	186.075109	-44.798349	3.415143	-0.083466
538	4	533	-35	-45	-44.798349	10.898500	-0.837756	0.020614
539	4	533	-35	-45	3.415143	-0.837756	0.064866	-0.001606
540	4	533	-35	-45	-0.083466	0.020614	-0.001606	0.000040
541	4	534	-35	-35	95.409304	-20.994392	1.451904	-0.031986
542	4	534	-35	-35	-20.994392	4.690976	-0.328278	0.007302
543	4	534	-35	-35	1.451904	-0.328278	0.023208	-0.000521
544	4	534	-35	-35	-0.031986	0.007302	-0.000521	0.000012
545	4	535	-35	-25	168.546256	-36.290606	2.406198	-0.049752
546	4	535	-35	-25	-36.290606	8.064159	-0.547048	0.011500
547	4	535	-35	-25	2.406198	-0.547045	0.037802	-0.000806
548	4	535	-35	-25	-0.049752	0.011500	-0.000806	0.000017
549	2	600	-25	-15	11.518460	-3.655965	0.331644	-0.009032
550	2	600	-25	-15	-3.655965	1.222415	-0.113962	0.003157
551	2	600	-25	-15	0.331644	-0.113962	0.010815	-0.000304
552	2	600	-25	-15	-0.009032	0.003157	-0.000304	0.000009
553	2	601	-25	-5	9.887494	-2.863500	0.230093	-0.005402
554	2	601	-25	-5	-2.863500	0.865637	-0.071295	0.001700
555	2	601	-25	-5	0.230093	-0.071295	0.005993	-0.000145
556	2	601	-25	-5	-0.005402	0.001700	-0.000145	0.000004
557	2	604	-25	25	1.609522	-0.404561	0.027475	-0.000548
558	2	604	-25	25	-0.404561	0.109866	-0.007762	0.000159
559	2	604	-25	25	0.027475	-0.007762	0.000565	-0.000012
560	2	604	-25	25	-0.000548	0.000159	-0.000012	0.000000

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
561	2	605	-25	35	0.393042	-0.090326	0.005775	-0.000111
562	2	605	-25	35	-0.090326	0.022583	-0.001514	0.000030
563	2	605	-25	35	0.005775	-0.001514	0.000106	-0.000002
564	2	605	-25	35	-0.000111	0.000030	-0.000002	0.000000
565	2	606	-25	45	0.952010	-0.210698	0.013857	-0.000281
566	2	606	-25	45	-0.210698	0.050975	-0.003519	0.000074
567	2	606	-25	45	0.013857	-0.003519	0.000250	-0.000005
568	2	606	-25	45	-0.000281	0.000074	-0.000005	0.000000
569	2	607	-25	55	2620027	-322854	9945.279123	0.000000
570	2	607	-25	55	-322854	39784.1	-1225.53	0.000000
571	2	607	-25	55	9945.279123	-1225.53	37.752144	0.000000
572	2	607	-25	55	0.000000	0.000000	0.000000	0.000000
573	3	609	-25	75	33.502328	-9.384054	0.774841	-0.019453
574	3	609	-25	75	-9.384054	2.753011	-0.234236	0.006009
575	3	609	-25	75	0.774841	-0.234236	0.020419	-0.000535
576	3	609	-25	75	-0.019453	0.006009	-0.000535	0.000014
577	3	610	-25	85	65.202420	-19.590488	1.696816	-0.044611
578	3	610	-25	85	-19.590488	6.139696	-0.547188	0.014685
579	3	610	-25	85	1.696816	-0.547188	0.050067	-0.001372
580	3	610	-25	85	-0.044611	0.014685	-0.001372	0.000038
581	3	611	-25	95	45.378159	-12.715179	1.017800	-0.024694
582	3	611	-25	95	-12.715179	3.745797	-0.309805	0.007693
583	3	611	-25	95	1.017800	-0.309805	0.026396	-0.000671
584	3	611	-25	95	-0.024694	0.007693	-0.000671	0.000017
585	3	612	-25	105	72.782722	-19.433662	1.419682	-0.030906
586	3	612	-25	105	-19.433662	5.424406	-0.406829	0.009019
587	3	612	-25	105	1.419682	-0.406829	0.031279	-0.000708
588	3	612	-25	105	-0.030906	0.009019	-0.000708	0.000016
589	3	613	-25	115	62.299786	-16.401710	1.179174	-0.025210
590	3	613	-25	115	-16.401710	4.488707	-0.330052	0.007166
591	3	613	-25	115	1.179174	-0.330052	0.024762	-0.000548
592	3	613	-25	115	-0.025210	0.007166	-0.000548	0.000012
593	3	614	-25	125	0.403075	-0.103628	0.007268	-0.000152
594	3	614	-25	125	-0.103628	0.027802	-0.001996	0.000042
595	3	614	-25	125	0.007268	-0.001996	0.000146	-0.000003
596	3	614	-25	125	-0.000152	0.000042	-0.000003	0.000000
597	3	615	-25	135	9.336657	-2.237662	0.150876	-0.003059
598	3	615	-25	135	-2.237662	0.564575	-0.039029	0.000805
599	3	615	-25	135	0.150876	-0.039029	0.002757	-0.000058
600	3	615	-25	135	-0.003059	0.000805	-0.000058	0.000001
601	3	616	-25	145	13.625680	-3.438219	0.239062	-0.004964
602	3	616	-25	145	-3.438219	0.913485	-0.065418	0.001386
603	3	616	-25	145	0.239062	-0.065418	0.004808	-0.000104
604	3	616	-25	145	-0.004964	0.001386	-0.000104	0.000002
605	3	617	-25	155	75.635037	-20.579687	1.600258	-0.037891
606	3	617	-25	155	-20.579687	5.794492	-0.461322	0.011121
607	3	617	-25	155	1.600258	-0.461322	0.037593	-0.000925
608	3	617	-25	155	-0.037891	0.011121	-0.000925	0.000023
609	3	618	-25	165	30.156540	-7.621331	0.541805	-0.011567
610	3	618	-25	165	-7.621331	2.017893	-0.147651	0.003218
611	3	618	-25	165	0.541805	-0.147651	0.011090	-0.000247
612	3	618	-25	165	-0.011567	0.003218	-0.000247	0.000006
613	3	619	-25	175	27.984533	-6.937722	0.486013	-0.010230
614	3	619	-25	175	-6.937722	1.826030	-0.132539	0.002859
615	3	619	-25	175	0.486013	-0.132539	0.009908	-0.000219
616	3	619	-25	175	-0.010230	0.002859	-0.000219	0.000005

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
617	3	620	-25	-175	49.451071	-11.278875	0.750554	-0.015269
618	3	620	-25	-175	-11.278875	2.667643	-0.181536	0.003752
619	3	620	-25	-175	0.750554	-0.181536	0.012577	-0.000264
620	3	620	-25	-175	-0.015269	0.003752	-0.000264	0.000006
621	3	621	-25	-165	20.478069	-4.773423	0.319849	-0.006516
622	3	621	-25	-165	-4.773423	1.149755	-0.078652	0.001626
623	3	621	-25	-165	0.319849	-0.078652	0.005479	-0.000115
624	3	621	-25	-165	-0.006516	0.001626	-0.000115	0.000002
625	3	622	-25	-155	9.837967	-2.156401	0.135953	-0.002612
626	3	622	-25	-155	-2.156401	0.490501	-0.031596	0.000616
627	3	622	-25	-155	0.135953	-0.031596	0.002070	-0.000041
628	3	622	-25	-155	-0.002612	0.000616	-0.000041	0.000001
629	3	623	-25	-145	0.000000	0.000000	0.000000	0.000000
630	3	623	-25	-145	0.000000	0.000000	0.000000	0.000000
631	3	623	-25	-145	0.000000	0.000000	0.000000	0.000000
632	3	623	-25	-145	0.000000	0.000000	0.000000	0.000000
633	4	626	-25	-115	3.024228	-0.674954	0.042379	-0.000804
634	4	626	-25	-115	-0.674954	0.158625	-0.010245	0.000198
635	4	626	-25	-115	0.042379	-0.010245	0.000676	-0.000013
636	4	626	-25	-115	-0.000804	0.000198	-0.000013	0.000000
637	4	627	-25	-105	12.551143	-3.061708	0.215705	-0.004629
638	4	627	-25	-105	-3.061708	0.785367	-0.057078	0.001252
639	4	627	-25	-105	0.215705	-0.057078	0.004256	-0.000095
640	4	627	-25	-105	-0.004629	0.001252	-0.000095	0.000002
641	4	628	-25	-95	28.016481	-6.679968	0.466471	-0.009951
642	4	628	-25	-95	-6.679968	1.704029	-0.124185	0.002729
643	4	628	-25	-95	0.466471	-0.124185	0.009361	-0.000211
644	4	628	-25	-95	-0.009951	0.002729	-0.000211	0.000005
645	4	629	-25	-85	87.879860	-21.897999	1.635953	-0.037696
646	4	629	-25	-85	-21.897999	5.679346	-0.436284	0.010257
647	4	629	-25	-85	1.635953	-0.436284	0.034307	-0.000822
648	4	629	-25	-85	-0.037696	0.010257	-0.000822	0.000020
649	4	630	-25	-75	30.145401	-7.104611	0.489009	-0.010257
650	4	630	-25	-75	-7.104611	1.792130	-0.128673	0.002779
651	4	630	-25	-75	0.489009	-0.128673	0.009548	-0.000212
652	4	630	-25	-75	-0.010257	0.002779	-0.000212	0.000005
653	4	631	-25	-65	9.449059	-2.114739	0.142594	-0.002973
654	4	631	-25	-65	-2.114739	0.493304	-0.034211	0.000728
655	4	631	-25	-65	0.142594	-0.034211	0.002426	-0.000053
656	4	631	-25	-65	-0.002973	0.000728	-0.000053	0.000001
657	4	632	-25	-55	15.071455	-3.366623	0.224964	-0.004636
658	4	632	-25	-55	-3.366623	0.784997	-0.054031	0.001137
659	4	632	-25	-55	0.224964	-0.054031	0.003811	-0.000082
660	4	632	-25	-55	-0.004636	0.001137	-0.000082	0.000002
661	4	633	-25	-45	2.270735	-0.445786	0.026789	-0.000503
662	4	633	-25	-45	-0.445786	0.091515	-0.005682	0.000109
663	4	633	-25	-45	0.026789	-0.005682	0.000362	-0.000007
664	4	633	-25	-45	-0.000503	0.000109	-0.000007	0.000000
665	4	634	-25	-35	5.228066	-1.089050	0.069305	-0.001380
666	4	634	-25	-35	-1.089050	0.235766	-0.015423	0.000314
667	4	634	-25	-35	0.069305	-0.015423	0.001032	-0.000021
668	4	634	-25	-35	-0.001380	0.000314	-0.000021	0.000000
669	2	700	-15	-15	2.789015	-0.694803	0.048716	-0.000997
670	2	700	-15	-15	-0.694803	0.184623	-0.013432	0.000281
671	2	700	-15	-15	0.048716	-0.013432	0.001005	-0.000021
672	2	700	-15	-15	-0.000997	0.000281	-0.000021	0.000000

OBS	AREA	TENSQ	LAT	LON	TN1C	TN1SC	TN2SC	TN3SC
673	2	701	-15	-5	15.565921	-4.819269	0.423926	-0.010961
674	2	701	-15	-5	-4.819269	1.547169	-0.139295	0.003655
675	2	701	-15	-5	0.423926	-0.139295	0.012797	-0.000341
676	2	701	-15	-5	-0.010961	0.003655	-0.000341	0.000009
677	2	702	-15	5	69.935907	-20.760675	1.701795	-0.041437
678	2	702	-15	5	-20.760675	6.428079	-0.540665	0.013390
679	2	702	-15	5	1.701795	-0.540665	0.045580	-0.001175
680	2	702	-15	5	-0.041437	0.013390	-0.001175	0.000030
681	2	704	-15	25	1.088335	-0.275955	0.018610	-0.000367
682	2	704	-15	25	-0.275955	0.074519	-0.005203	0.000105
683	2	704	-15	25	0.018610	-0.005203	0.000375	-0.000008
684	2	704	-15	25	-0.000367	0.000105	-0.000008	0.000000
685	2	705	-15	35	0.661601	-0.167030	0.011208	-0.000220
686	2	705	-15	35	-0.167030	0.045480	-0.003175	0.000064
687	2	705	-15	35	0.011208	-0.003175	0.000229	-0.000005
688	2	705	-15	35	-0.000220	0.000064	-0.000005	0.000000
689	3	709	-15	75	1.899615	-0.481867	0.035389	-0.000785
690	3	709	-15	75	-0.481867	0.157435	-0.012953	0.000307
691	3	709	-15	75	0.035389	-0.012953	0.001120	-0.000027
692	3	709	-15	75	-0.000785	0.000307	-0.000027	0.000001
693	3	710	-15	85	29.238866	-6.457412	0.425889	-0.008593
694	3	710	-15	85	-6.457412	1.507785	-0.103161	0.002135
695	3	710	-15	85	0.425889	-0.103161	0.007262	-0.000154
696	3	710	-15	85	-0.008593	0.002135	-0.000154	0.000003
697	3	711	-15	95	37.420203	-8.299994	0.550495	-0.011287
698	3	711	-15	95	-8.299994	1.987415	-0.139099	0.002967
699	3	711	-15	95	0.550495	-0.139099	0.010178	-0.000225
700	3	711	-15	95	-0.011287	0.002967	-0.000225	0.000005
701	3	712	-15	105	12.543981	-2.654575	0.169172	-0.003337
702	3	712	-15	105	-2.654575	0.599314	-0.040131	0.000821
703	3	712	-15	105	0.169172	-0.040131	0.002807	-0.000059
704	3	712	-15	105	-0.003337	0.000821	-0.000059	0.000001
705	3	713	-15	115	5.565387	-1.189333	0.074573	-0.001433
706	3	713	-15	115	-1.189333	0.265216	-0.017379	0.000341
707	3	713	-15	115	0.074573	-0.017379	0.001153	-0.000023
708	3	713	-15	115	-0.001433	0.000341	-0.000023	0.000000
709	3	714	-15	125	1100.359217	-196.109397	11.094684	-0.198450
710	3	714	-15	125	-196.109397	35.146119	-1.997413	0.035850
711	3	714	-15	125	11.094684	-1.997413	0.113961	-0.002052
712	3	714	-15	125	-0.198450	0.035850	-0.002052	0.000037
713	3	715	-15	135	1.006658	-0.242602	0.015900	-0.000310
714	3	715	-15	135	-0.242602	0.060900	-0.004088	0.000081
715	3	715	-15	135	0.015900	-0.004088	0.000281	-0.000006
716	3	715	-15	135	-0.000310	0.000081	-0.000006	0.000000
717	3	716	-15	145	3.352549	-0.783144	0.050742	-0.000984
718	3	716	-15	145	-0.783144	0.194747	-0.013071	0.000259
719	3	716	-15	145	0.050742	-0.013071	0.000903	-0.000018
720	3	716	-15	145	-0.000984	0.000259	-0.000018	0.000000
721	3	717	-15	155	19.940368	-4.871149	0.315781	-0.006037
722	3	717	-15	155	-4.871149	1.277201	-0.085912	0.001681
723	3	717	-15	155	0.315781	-0.085912	0.005968	-0.000120
724	3	717	-15	155	-0.006037	0.001681	-0.000120	0.000002
725	3	718	-15	165	2.163416	-0.524514	0.033639	-0.000635
726	3	718	-15	165	-0.524514	0.133691	-0.008794	0.000169
727	3	718	-15	165	0.033639	-0.008794	0.000591	-0.000012
728	3	718	-15	165	-0.000635	0.000169	-0.000012	0.000000

OBS	AREA	TENSQ	LAT	LON	TN1C	TN1SC	TN2SC	TN3SC
729	3	719	-15	175	1.940737	-0.464567	0.029515	-0.000552
730	3	719	-15	175	-0.464567	0.118171	-0.007742	0.000148
731	3	719	-15	175	0.029515	-0.007742	0.000520	-0.000010
732	3	719	-15	175	-0.000552	0.000148	-0.000010	0.000000
733	3	720	-15	-175	3.852660	-0.801999	0.047605	-0.000858
734	3	720	-15	-175	-0.801999	0.175523	-0.010976	0.000202
735	3	720	-15	-175	0.047605	-0.010976	0.000691	-0.000013
736	3	720	-15	-175	-0.000858	0.000202	-0.000013	0.000000
737	3	721	-15	-165	1.188958	-0.256008	0.015592	-0.000284
738	3	721	-15	-165	-0.256008	0.059199	-0.003729	0.000070
739	3	721	-15	-165	0.015592	-0.003729	0.000241	-0.000005
740	3	721	-15	-165	-0.000284	0.000070	-0.000005	0.000000
741	3	722	-15	-155	0.883309	-0.193934	0.012098	-0.000227
742	3	722	-15	-155	-0.193934	0.046302	-0.003022	0.000058
743	3	722	-15	-155	0.012098	-0.003022	0.000204	-0.000004
744	3	722	-15	-155	-0.000227	0.000058	-0.000004	0.000000
745	3	723	-15	-145	14.136515	-5.956339	0.375933	-0.006463
746	3	723	-15	-145	-5.956339	2.512473	-0.158611	0.002727
747	3	723	-15	-145	0.375933	-0.158611	0.010017	-0.000172
748	3	723	-15	-145	-0.006463	0.002727	-0.000172	0.000003
749	3	724	-15	-135	0.518823	-0.213214	0.013447	-0.000231
750	3	724	-15	-135	-0.213214	0.087868	-0.005545	0.000095
751	3	724	-15	-135	0.013447	-0.005545	0.000350	-0.000006
752	3	724	-15	-135	-0.000231	0.000095	-0.000006	0.000000
753	4	725	-15	-125	7.043969	-1.458282	0.085496	-0.001518
754	4	725	-15	-125	-1.458282	0.323172	-0.019729	0.000360
755	4	725	-15	-125	0.085496	-0.019729	0.001245	-0.000023
756	4	725	-15	-125	-0.001518	0.000360	-0.000023	0.000000
757	4	726	-15	-115	3.958191	-0.857337	0.053323	-0.001004
758	4	726	-15	-115	-0.857337	0.195490	-0.012557	0.000242
759	4	726	-15	-115	0.053323	-0.012557	0.000829	-0.000016
760	4	726	-15	-115	-0.001004	0.000242	-0.000016	0.000000
761	4	727	-15	-105	12.359157	-2.721981	0.172954	-0.003318
762	4	727	-15	-105	-2.721981	0.630067	-0.041326	0.000810
763	4	727	-15	-105	0.172954	-0.041326	0.002784	-0.000056
764	4	727	-15	-105	-0.003318	0.000810	-0.000056	0.000001
765	4	728	-15	-95	10.053398	-2.250205	0.142175	-0.002693
766	4	728	-15	-95	-2.250205	0.554824	-0.037083	0.000728
767	4	728	-15	-95	0.142175	-0.037083	0.002590	-0.000052
768	4	728	-15	-95	-0.002693	0.000728	-0.000052	0.000001
769	4	729	-15	-85	208.026307	-49.442702	3.321179	-0.066360
770	4	729	-15	-85	-49.442702	12.051165	-0.823526	0.016646
771	4	729	-15	-85	3.321179	-0.823526	0.057230	-0.001171
772	4	729	-15	-85	-0.066360	0.016646	-0.001171	0.000024
773	4	730	-15	-75	27.183050	-6.200492	0.394632	-0.007521
774	4	730	-15	-75	-6.200492	1.487138	-0.097434	0.001893
775	4	730	-15	-75	0.394632	-0.097434	0.006542	-0.000130
776	4	730	-15	-75	-0.007521	0.001893	-0.000130	0.000003
777	4	731	-15	-65	16.436229	-3.276545	0.196299	-0.003640
778	4	731	-15	-65	-3.276545	0.678505	-0.041736	0.000789
779	4	731	-15	-65	0.196299	-0.041736	0.002624	-0.000051
780	4	731	-15	-65	-0.003640	0.000789	-0.000051	0.000001
781	4	732	-15	-55	2.226818	-0.432245	0.025250	-0.000456
782	4	732	-15	-55	-0.432245	0.086958	-0.005213	0.000096
783	4	732	-15	-55	0.025250	-0.005213	0.000320	-0.000006
784	4	732	-15	-55	-0.000456	0.000096	-0.000006	0.000000

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
785	4	733	-15	-45	0.604751	-0.109447	0.006087	-0.000106
786	4	733	-15	-45	-0.109447	0.020374	-0.001159	0.000021
787	4	733	-15	-45	0.006087	-0.001159	0.000067	-0.000001
788	4	733	-15	-45	-0.000106	0.000021	-0.000001	0.000000
789	4	734	-15	-35	15.731259	-3.041178	0.177516	-0.003219
790	4	734	-15	-35	-3.041178	0.604610	-0.036071	0.000666
791	4	734	-15	-35	0.177516	-0.036071	0.002197	-0.000041
792	4	734	-15	-35	-0.003219	0.000666	-0.000041	0.000001
793	5	800	-5	-15	10.496161	-2.622203	0.182338	-0.003642
794	5	800	-5	-15	-2.622203	0.689847	-0.049327	0.001001
795	5	800	-5	-15	0.182338	-0.049327	0.003611	-0.000074
796	5	800	-5	-15	-0.003642	0.001001	-0.000074	0.000002
797	5	801	-5	-5	1.433312	-0.307080	0.019397	-0.000371
798	5	801	-5	-5	-0.307080	0.070159	-0.004603	0.000090
799	5	801	-5	-5	0.019397	-0.004603	0.000310	-0.000006
800	5	801	-5	-5	-0.000371	0.000090	-0.000006	0.000000
801	5	802	-5	5	1.997547	-0.463689	0.031036	-0.000623
802	5	802	-5	5	-0.463689	0.113945	-0.007902	0.000162
803	5	802	-5	5	0.031036	-0.007902	0.000564	-0.000012
804	5	802	-5	5	-0.000623	0.000162	-0.000012	0.000000
805	5	803	-5	15	3.048429	-0.776562	0.054307	-0.001105
806	5	803	-5	15	-0.776562	0.209773	-0.015181	0.000315
807	5	803	-5	15	0.054307	-0.015181	0.001132	-0.000024
808	5	803	-5	15	-0.001105	0.000315	-0.000029	0.000001
809	5	804	-5	25	6.392292	-1.525776	0.102967	-0.002056
810	5	804	-5	25	-1.525776	0.387041	-0.027132	0.000555
811	5	804	-5	25	0.102967	-0.027132	0.001964	-0.000041
812	5	804	-5	25	-0.002056	0.000555	-0.000041	0.000001
813	5	805	-5	35	0.568371	-0.136734	0.009198	-0.000183
814	5	805	-5	35	-0.136734	0.035018	-0.002452	0.000050
815	5	805	-5	35	0.009198	-0.002452	0.000178	-0.000004
816	5	805	-5	35	-0.000183	0.000050	-0.000004	0.000000
817	5	806	-5	45	1.008467	-0.236833	0.015779	-0.000312
818	5	806	-5	45	-0.236833	0.059563	-0.004141	0.000084
819	5	806	-5	45	0.015779	-0.004141	0.000298	-0.000006
820	5	806	-5	45	-0.000312	0.000084	-0.000006	0.000000
821	6	809	-5	75	8.438115	-3.566858	0.319166	-0.008005
822	6	809	-5	75	-3.566858	1.961752	-0.186031	0.004787
823	6	809	-5	75	0.319166	-0.186031	0.017910	-0.000465
824	6	809	-5	75	-0.008005	0.004787	-0.000465	0.000012
825	6	810	-5	85	2.389779	-0.551202	0.037612	-0.000782
826	6	810	-5	85	-0.551202	0.154717	-0.011685	0.000258
827	6	810	-5	85	0.037612	-0.011685	0.000930	-0.000021
828	6	810	-5	85	-0.000782	0.000258	-0.000021	0.000000
829	6	811	-5	95	10.207357	-2.140315	0.138683	-0.002779
830	6	811	-5	95	-2.140315	0.471328	-0.031663	0.000651
831	6	811	-5	95	0.138683	-0.031663	0.002188	-0.000046
832	6	811	-5	95	-0.002779	0.000651	-0.000046	0.000001
833	6	812	-5	105	5.254106	-1.155336	0.077074	-0.001575
834	6	812	-5	105	-1.155336	0.274995	-0.019391	0.000411
835	6	812	-5	105	0.077074	-0.019391	0.001426	-0.000031
836	6	812	-5	105	-0.001575	0.000411	-0.000031	0.000001
837	6	813	-5	115	8.518319	-1.915448	0.129946	-0.002681
838	6	813	-5	115	-1.915448	0.452357	-0.031801	0.000672
839	6	813	-5	115	0.129946	-0.031801	0.002302	-0.000050
840	6	813	-5	115	-0.002681	0.000672	-0.000050	0.000001

OBS	AREA	TENSQ	LAT	LON	TN1C	TN1SC	TN2SC	TN3SC
841	6	814	-5	125	13.694867	-2.829264	0.180090	-0.003571
842	6	814	-5	125	-2.829264	0.612416	-0.040495	0.000826
843	6	814	-5	125	0.180090	-0.040495	0.002770	-0.000058
844	6	814	-5	125	-0.003571	0.000826	-0.000058	0.000001
845	6	815	-5	135	11.065727	-2.322851	0.148013	-0.002911
846	6	815	-5	135	-2.322851	0.514618	-0.034043	0.000687
847	6	815	-5	135	0.148013	-0.034043	0.002318	-0.000048
848	6	815	-5	135	-0.002911	0.000687	-0.000048	0.000001
849	6	816	-5	145	10.493968	-2.151045	0.134157	-0.002586
850	6	816	-5	145	-2.151045	0.477299	-0.031399	0.000627
851	6	816	-5	145	0.134157	-0.031399	0.002147	-0.000044
852	6	816	-5	145	-0.002586	0.000627	-0.000044	0.000001
853	6	817	-5	155	34.228198	-7.761104	0.504277	-0.009834
854	6	817	-5	155	-7.761104	1.889547	-0.128264	0.002573
855	6	817	-5	155	0.504277	-0.128264	0.009018	-0.000185
856	6	817	-5	155	-0.009834	0.002573	-0.000185	0.000004
857	6	818	-5	165	14.063729	-3.279918	0.209876	-0.003969
858	6	818	-5	165	-3.279918	0.806256	-0.053294	0.001029
859	6	818	-5	165	0.209876	-0.053294	0.003633	-0.000072
860	6	818	-5	165	-0.003969	0.001029	-0.000072	0.000001
861	6	819	-5	175	15.609985	-3.614868	0.230856	-0.004356
862	6	819	-5	175	-3.614868	0.883022	-0.058269	0.001123
863	6	819	-5	175	0.230856	-0.058269	0.003963	-0.000078
864	6	819	-5	175	-0.004356	0.001123	-0.000078	0.000002
865	6	820	-5	-175	3.015048	-0.579650	0.032722	-0.000566
866	6	820	-5	-175	-0.579650	0.117002	-0.006815	0.000121
867	6	820	-5	-175	0.032722	-0.006815	0.000407	-0.000007
868	6	820	-5	-175	-0.000566	0.000121	-0.000007	0.000000
869	7	821	-5	-165	1.439199	-0.279412	0.015853	-0.000275
870	7	821	-5	-165	-0.279412	0.057093	-0.003346	0.000059
871	7	821	-5	-165	0.015853	-0.003346	0.000201	-0.000004
872	7	821	-5	-165	-0.000275	0.000059	-0.000004	0.000000
873	7	822	-5	-155	1.049754	-0.225079	0.013705	-0.000249
874	7	822	-5	-155	-0.225079	0.051523	-0.003264	0.000061
875	7	822	-5	-155	0.013705	-0.003264	0.000213	-0.000004
876	7	822	-5	-155	-0.000249	0.000061	-0.000004	0.000000
877	7	823	-5	-145	1.284956	-0.279590	0.017290	-0.000319
878	7	823	-5	-145	-0.279590	0.065016	-0.004179	0.000079
879	7	823	-5	-145	0.017290	-0.004179	0.000277	-0.000005
880	7	823	-5	-145	-0.000319	0.000079	-0.000005	0.000000
881	7	824	-5	-135	2.242414	-0.454501	0.026589	-0.000472
882	7	824	-5	-135	-0.454501	0.099684	-0.006117	0.000112
883	7	824	-5	-135	0.026589	-0.006117	0.000389	-0.000007
884	7	824	-5	-135	-0.000472	0.000112	-0.000007	0.000000
885	7	825	-5	-125	0.839495	-0.166698	0.009614	-0.000169
886	7	825	-5	-125	-0.166698	0.034579	-0.002053	0.000037
887	7	825	-5	-125	0.009614	-0.002053	0.000125	-0.000002
888	7	825	-5	-125	-0.000169	0.000037	-0.000002	0.000000
889	4	826	-5	-115	12.793442	-2.514294	0.144237	-0.002509
890	4	826	-5	-115	-2.514294	0.515575	-0.030447	0.000540
891	4	826	-5	-115	0.144237	-0.030447	0.001844	-0.000033
892	4	826	-5	-115	-0.002509	0.000540	-0.000033	0.000001
893	7	826	-5	-115	6.178498	-1.243105	0.071848	-0.001263
894	7	826	-5	-115	-1.243105	0.260633	-0.015465	0.000277
895	7	826	-5	-115	0.071848	-0.015465	0.000939	-0.000017
896	7	826	-5	-115	-0.001263	0.000277	-0.000017	0.000000

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
897	4	827	-5	-105	5.859138	-1.238606	0.077041	-0.001450
898	4	827	-5	-105	-1.238606	0.274287	-0.017650	0.000340
899	4	827	-5	-105	0.077041	-0.017650	0.001171	-0.000023
900	4	827	-5	-105	-0.001450	0.000340	-0.000023	0.000000
901	7	827	-5	-105	76499.4	-9691.57	399.355976	-5.384323
902	7	827	-5	-105	-9691.57	1232.924258	-50.967442	0.688943
903	7	827	-5	-105	399.355976	-50.967442	2.112243	-0.028611
904	7	827	-5	-105	-5.384323	0.688943	-0.028611	0.000388
905	4	828	-5	-95	6.130080	-1.253763	0.075597	-0.001380
906	4	828	-5	-95	-1.253763	0.272653	-0.017203	0.000324
907	4	828	-5	-95	0.075597	-0.017203	0.001130	-0.000022
908	4	828	-5	-95	-0.001380	0.000324	-0.000022	0.000000
909	4	829	-5	-85	164.439442	-34.141474	2.073986	-0.037995
910	4	829	-5	-85	-34.141474	7.273185	-0.450001	0.008348
911	4	829	-5	-85	2.073986	-0.450001	0.028316	-0.000532
912	4	829	-5	-85	-0.037995	0.008348	-0.000532	0.000010
913	4	830	-5	-75	22.704305	-4.789392	0.293358	-0.005400
914	4	830	-5	-75	-4.789392	1.055679	-0.066660	0.001252
915	4	830	-5	-75	0.293358	-0.066660	0.004325	-0.000083
916	4	830	-5	-75	-0.005400	0.001252	-0.000083	0.000002
917	4	831	-5	-65	3.462910	-0.682488	0.040211	-0.000725
918	4	831	-5	-65	-0.682488	0.139192	-0.008410	0.000154
919	4	831	-5	-65	0.040211	-0.008410	0.000520	-0.000010
920	4	831	-5	-65	-0.000725	0.000154	-0.000010	0.000000
921	4	832	-5	-55	1.589312	-0.299818	0.017231	-0.000306
922	4	832	-5	-55	-0.299818	0.058036	-0.003404	0.000061
923	4	832	-5	-55	0.017231	-0.003404	0.000203	-0.000004
924	4	832	-5	-55	-0.000306	0.000061	-0.000004	0.000000
925	4	833	-5	-45	2.997644	-0.575826	0.033486	-0.000602
926	4	833	-5	-45	-0.575826	0.113042	-0.006692	0.000122
927	4	833	-5	-45	0.033486	-0.006692	0.000403	-0.000007
928	4	833	-5	-45	-0.000602	0.000122	-0.000007	0.000000
929	4	834	-5	-35	181.167192	-37.289191	2.327684	-0.044975
930	4	834	-5	-35	-37.289191	7.811453	-0.494242	0.009645
931	4	834	-5	-35	2.327684	-0.494242	0.031660	-0.000624
932	4	834	-5	-35	-0.044975	0.009645	-0.000624	0.000012
933	5	901	5	-5	2.483644	-0.499256	0.030146	-0.000558
934	5	901	5	-5	-0.499256	0.105910	-0.006623	0.000126
935	5	901	5	-5	0.030146	-0.006623	0.000425	-0.000008
936	5	901	5	-5	-0.000558	0.000126	-0.000008	0.000000
937	5	902	5	5	1.793266	-0.374846	0.023167	-0.000435
938	5	902	5	5	-0.374846	0.083056	-0.005324	0.000102
939	5	902	5	5	0.023167	-0.005324	0.000351	-0.000007
940	5	902	5	5	-0.000435	0.000102	-0.000007	0.000000
941	5	903	5	15	9.298674	-2.195632	0.146093	-0.002844
942	5	903	5	15	-2.195632	0.548502	-0.037661	0.000747
943	5	903	5	15	0.146093	-0.037661	0.002646	-0.000053
944	5	903	5	15	-0.002844	0.000747	-0.000053	0.000001
945	5	904	5	25	1.968683	-0.515020	0.037730	-0.000799
946	5	904	5	25	-0.515020	0.141519	-0.010683	0.000230
947	5	904	5	25	0.037730	-0.010683	0.000827	-0.000018
948	5	904	5	25	-0.000799	0.000230	-0.000018	0.000000
949	5	905	5	35	0.706455	-0.174489	0.011952	-0.000240
950	5	905	5	35	-0.174489	0.045675	-0.003245	0.000067
951	5	905	5	35	0.011952	-0.003245	0.000238	-0.000005
952	5	905	5	35	-0.000240	0.000067	-0.000005	0.000000

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
953	5	906	5	45	1.049224	-0.243609	0.015785	-0.000303
954	5	906	5	45	-0.243609	0.059495	-0.003988	0.000078
955	5	906	5	45	0.015785	-0.003988	0.000276	-0.000006
956	5	906	5	45	-0.000303	0.000078	-0.000006	0.000000
957	5	907	5	55	3.768340	-0.861848	0.054664	-0.001036
958	5	907	5	55	-0.861848	0.206519	-0.013485	0.000261
959	5	907	5	55	0.054664	-0.013485	0.000905	-0.000018
960	5	907	5	55	-0.001036	0.000261	-0.000018	0.000000
961	5	908	5	65	134.437781	-55.519832	3.764977	-0.069953
962	5	908	5	65	-55.519832	24.062997	-1.645586	0.030689
963	5	908	5	65	3.764977	-1.645586	0.112937	-0.002112
964	5	908	5	65	-0.069953	0.030689	-0.002112	0.000040
965	5	909	5	75	3.497652	-0.728152	0.043391	-0.000782
966	5	909	5	75	-0.728152	0.157168	-0.009571	0.000175
967	5	909	5	75	0.043391	-0.009571	0.000593	-0.000011
968	5	909	5	75	-0.000782	0.000175	-0.000011	0.000000
969	6	909	5	75	7.593505	-1.288027	0.069327	-0.001185
970	6	909	5	75	-1.288027	0.223961	-0.012307	0.000214
971	6	909	5	75	0.069327	-0.012307	0.000689	-0.000012
972	6	909	5	75	-0.001185	0.000214	-0.000012	0.000000
973	6	910	5	85	5.567096	-1.035020	0.059499	-0.001063
974	6	910	5	85	-1.035020	0.200509	-0.011897	0.000217
975	6	910	5	85	0.059499	-0.011897	0.000725	-0.000014
976	6	910	5	85	-0.001063	0.000217	-0.000014	0.000000
977	6	911	5	95	2.982508	-0.623238	0.039446	-0.000760
978	6	911	5	95	-0.623238	0.136956	-0.009000	0.000178
979	6	911	5	95	0.039446	-0.009000	0.000610	-0.000012
980	6	911	5	95	-0.000760	0.000178	-0.000012	0.000000
981	6	912	5	105	1.586213	-0.355244	0.023655	-0.000472
982	6	912	5	105	-0.355244	0.083936	-0.005818	0.000119
983	6	912	5	105	0.023655	-0.005818	0.000418	-0.000009
984	6	912	5	105	-0.000472	0.000119	-0.000009	0.000000
985	6	913	5	115	0.857237	-0.201963	0.014041	-0.000289
986	6	913	5	115	-0.201963	0.050114	-0.003629	0.000077
987	6	913	5	115	0.014041	-0.003629	0.000273	-0.000006
988	6	913	5	115	-0.000289	0.000077	-0.000006	0.000000
989	6	914	5	125	400.550965	-75.023245	4.354182	-0.079186
990	6	914	5	125	-75.023245	14.187845	-0.831887	0.015260
991	6	914	5	125	4.354182	-0.831887	0.049344	-0.000914
992	6	914	5	125	-0.079186	0.015260	-0.000914	0.000017
993	6	915	5	135	21.884267	-4.100809	0.241668	-0.004501
994	6	915	5	135	-4.100809	0.791834	-0.047751	0.000905
995	6	915	5	135	0.241668	-0.047751	0.002934	-0.000056
996	6	915	5	135	-0.004501	0.000905	-0.000056	0.000001
997	6	916	5	145	15.477698	-3.313095	0.212744	-0.004189
998	6	916	5	145	-3.313095	0.773095	-0.052478	0.001072
999	6	916	5	145	0.212744	-0.052478	0.003706	-0.000078
1000	6	916	5	145	-0.004189	0.001072	-0.000078	0.000002
1001	6	917	5	155	8.824528	-1.822266	0.111447	-0.002088
1002	6	917	5	155	-1.822266	0.410869	-0.026520	0.000515
1003	6	917	5	155	0.111447	-0.026520	0.001779	-0.000035
1004	6	917	5	155	-0.002088	0.000515	-0.000035	0.000001
1005	6	918	5	165	62.790584	-14.170050	0.904155	-0.017088
1006	6	918	5	165	-14.170050	3.425219	-0.230478	0.004513
1007	6	918	5	165	0.904155	-0.230478	0.016367	-0.000332
1008	6	918	5	165	-0.017088	0.004513	-0.000332	0.000007

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
1009	6	919	5	175	67.969397	-17.151267	1.193901	-0.023956
1010	6	919	5	175	-17.151267	4.681307	-0.342936	0.007092
1011	6	919	5	175	1.193901	-0.342936	0.026325	-0.000560
1012	6	919	5	175	-0.023956	0.007092	-0.000560	0.000012
1013	6	920	5	-175	1.075910	-0.199275	0.011140	-0.000193
1014	6	920	5	-175	-0.199275	0.038482	-0.002217	0.000039
1015	6	920	5	-175	0.011140	-0.002217	0.000131	-0.000002
1016	6	920	5	-175	-0.000193	0.000039	-0.000002	0.000000
1017	7	921	5	-165	1.132059	-0.205445	0.011324	-0.000194
1018	7	921	5	-165	-0.205445	0.038692	-0.002191	0.000038
1019	7	921	5	-165	0.011324	-0.002191	0.000127	-0.000002
1020	7	921	5	-165	-0.000194	0.000038	-0.000002	0.000000
1021	7	922	5	-155	2.860597	-0.619514	0.038447	-0.000711
1022	7	922	5	-155	-0.619514	0.143326	-0.009323	0.000178
1023	7	922	5	-155	0.038447	-0.009323	0.000633	-0.000012
1024	7	922	5	-155	-0.000711	0.000178	-0.000012	0.000000
1025	7	923	5	-145	1.530837	-0.327378	0.019902	-0.000362
1026	7	923	5	-145	-0.327378	0.074007	-0.004674	0.000087
1027	7	923	5	-145	0.019902	-0.004674	0.000306	-0.000006
1028	7	923	5	-145	-0.000362	0.000087	-0.000006	0.000000
1029	7	924	5	-135	2.011298	-0.450435	0.028612	-0.000540
1030	7	924	5	-135	-0.450435	0.107908	-0.007165	0.000139
1031	7	924	5	-135	0.028612	-0.007165	0.000495	-0.000010
1032	7	924	5	-135	-0.000540	0.000139	-0.000010	0.000000
1033	7	925	5	-125	0.830747	-0.176054	0.010674	-0.000195
1034	7	925	5	-125	-0.176054	0.039285	-0.002462	0.000046
1035	7	925	5	-125	0.010674	-0.002462	0.000159	-0.000003
1036	7	925	5	-125	-0.000195	0.000046	-0.000003	0.000000
1037	7	926	5	-115	3.057957	-0.611314	0.035783	-0.000637
1038	7	926	5	-115	-0.611314	0.129311	-0.007854	0.000143
1039	7	926	5	-115	0.035783	-0.007854	0.000492	-0.000009
1040	7	926	5	-115	-0.000637	0.000143	-0.000009	0.000000
1041	7	927	5	-105	7.995078	-1.502368	0.079950	-0.001302
1042	7	927	5	-105	-1.502368	0.296845	-0.016238	0.000269
1043	7	927	5	-105	0.079950	-0.016238	0.000907	-0.000015
1044	7	927	5	-105	-0.001302	0.000269	-0.000015	0.000000
1045	4	928	5	-95	3.758974	-0.666533	0.035278	-0.000580
1046	4	928	5	-95	-0.666533	0.122343	-0.006638	0.000111
1047	4	928	5	-95	0.035278	-0.006638	0.000368	-0.000006
1048	4	928	5	-95	-0.000580	0.000111	-0.000006	0.000000
1049	4	929	5	-85	52.453022	-10.677977	0.655616	-0.012288
1050	4	929	5	-85	-10.677977	2.236555	-0.140413	0.002675
1051	4	929	5	-85	0.655616	-0.140413	0.008997	-0.000174
1052	4	929	5	-85	-0.012288	0.002675	-0.000174	0.000003
1053	4	930	5	-75	9.701009	-1.883263	0.109001	-0.001927
1054	4	930	5	-75	-1.883263	0.377617	-0.022425	0.000404
1055	4	930	5	-75	0.109001	-0.022425	0.001365	-0.000025
1056	4	930	5	-75	-0.001927	0.000404	-0.000025	0.000000
1057	4	931	5	-65	13.940596	-2.569269	0.143300	-0.002473
1058	4	931	5	-65	-2.569269	0.484170	-0.027512	0.000482
1059	4	931	5	-65	0.143300	-0.027512	0.001592	-0.000028
1060	4	931	5	-65	-0.002473	0.000482	-0.000028	0.000001
1061	4	932	5	-55	6.691034	-1.222500	0.068329	-0.001192
1062	4	932	5	-55	-1.222500	0.228806	-0.013052	0.000231
1063	4	932	5	-55	0.068329	-0.013052	0.000760	-0.000014
1064	4	932	5	-55	-0.001192	0.000231	-0.000014	0.000000

OBS	AREA	TENSO	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
1065	4	933	5	-45	8.186300	-1.539236	0.088025	-0.001572
1066	4	933	5	-45	-1.539236	0.295767	-0.017235	0.000313
1067	4	933	5	-45	0.088025	-0.017235	0.001024	-0.000019
1068	4	933	5	-45	-0.001572	0.000313	-0.000019	0.000000
1069	5	1003	15	15	1082.782735	-278.112313	22.222258	-0.559653
1070	5	1003	15	15	-278.112313	72.549439	-5.862368	0.148876
1071	5	1003	15	15	22.222258	-5.862368	0.477998	-0.012226
1072	5	1003	15	15	-0.559653	0.148876	-0.012226	0.000315
1073	5	1004	15	25	45.498811	-11.424236	0.853867	-0.019314
1074	5	1004	15	25	-11.424236	2.954019	-0.225785	0.005187
1075	5	1004	15	25	0.853867	-0.225785	0.017616	-0.000411
1076	5	1004	15	25	-0.019314	0.005187	-0.000411	0.000010
1077	5	1005	15	35	11.700324	-2.625748	0.174172	-0.003541
1078	5	1005	15	35	-2.625748	0.612667	-0.041696	0.000863
1079	5	1005	15	35	0.174172	-0.041696	0.002898	-0.000051
1080	5	1005	15	35	-0.003541	0.000863	-0.000061	0.000001
1081	5	1006	15	45	38.628005	-9.245866	0.633300	-0.012973
1082	5	1006	15	45	-9.245866	2.282150	-0.160010	0.003331
1083	5	1006	15	45	0.633300	-0.160010	0.011493	-0.000244
1084	5	1006	15	45	-0.012973	0.003331	-0.000244	0.000005
1085	5	1007	15	55	7.875165	-1.830008	0.118377	-0.002289
1086	5	1007	15	55	-1.830008	0.442757	-0.029343	0.000577
1087	5	1007	15	55	0.118377	-0.029343	0.001987	-0.000040
1088	5	1007	15	55	-0.002289	0.000577	-0.000040	0.000001
1089	5	1008	15	65	1.146118	-0.250798	0.015323	-0.000282
1090	5	1008	15	65	-0.250798	0.063045	-0.004098	0.000078
1091	5	1008	15	65	0.015323	-0.004098	0.000275	-0.000005
1092	5	1008	15	65	-0.000282	0.000078	-0.000005	0.000000
1093	5	1009	15	75	2.498594	-0.542142	0.033294	-0.000614
1094	5	1009	15	75	-0.542142	0.123182	-0.007775	0.000146
1095	5	1009	15	75	0.033294	-0.007775	0.000502	-0.000010
1096	5	1009	15	75	-0.000614	0.000146	-0.000010	0.000000
1097	5	1010	15	85	11.487301	-2.530146	0.158472	-0.002979
1098	5	1010	15	85	-2.530146	0.587797	-0.038039	0.000731
1099	5	1010	15	85	0.158472	-0.038039	0.002530	-0.000050
1100	5	1010	15	85	-0.002979	0.000731	-0.000050	0.000001
1101	6	1010	15	85	37.962947	-6.903739	0.388297	-0.006808
1102	6	1010	15	85	-6.903739	1.287169	-0.074053	0.001321
1103	6	1010	15	85	0.388297	-0.074053	0.004356	-0.000079
1104	6	1010	15	85	-0.006808	0.001321	-0.000079	0.000001
1105	6	1011	15	95	7.972582	-1.655198	0.102587	-0.001917
1106	6	1011	15	95	-1.655198	0.360566	-0.023199	0.000445
1107	6	1011	15	95	0.102587	-0.023199	0.001543	-0.000030
1108	6	1011	15	95	-0.001917	0.000445	-0.000030	0.000001
1109	6	1012	15	105	1.359406	-0.294246	0.018691	-0.000355
1110	6	1012	15	105	-0.294246	0.066928	-0.004420	0.000086
1111	6	1012	15	105	0.018691	-0.004420	0.000303	-0.000006
1112	6	1012	15	105	-0.000355	0.000086	-0.000006	0.000000
1113	6	1013	15	115	2.359938	-0.555443	0.038617	-0.000792
1114	6	1013	15	115	-0.555443	0.138018	-0.010013	0.000211
1115	6	1013	15	115	0.038617	-0.010013	0.000755	-0.000016
1116	6	1013	15	115	-0.000792	0.000211	-0.000016	0.000000
1117	6	1014	15	125	665.774614	-126.572989	7.388335	-0.135719
1118	6	1014	15	125	-126.572989	24.260469	-1.429688	0.026496
1119	6	1014	15	125	7.388335	-1.429688	0.085261	-0.001598
1120	6	1014	15	125	-0.135719	0.026496	-0.001598	0.000030

OBS	AREA	TENSQ	LAT	LON	TN1C	TN1SC	TN2SC	TN3SC
1121	6	1016	15	145	27.805526	-6.798254	0.485370	-0.010419
1122	6	1016	15	145	-6.798254	1.914486	-0.149417	0.003391
1123	6	1016	15	145	0.485370	-0.149417	0.012429	-0.000294
1124	6	1016	15	145	-0.010419	0.003391	-0.000294	0.000007
1125	6	1017	15	155	24.613559	-5.733208	0.382522	-0.007657
1126	6	1017	15	155	-5.733208	1.457543	-0.103020	0.002142
1127	6	1017	15	155	0.382522	-0.103020	0.007648	-0.000164
1128	6	1017	15	155	-0.007657	0.002142	-0.000164	0.000004
1129	6	1018	15	165	41.867170	-10.221486	0.699638	-0.014111
1130	6	1018	15	165	-10.221486	2.644033	-0.188278	0.003895
1131	6	1018	15	165	0.699638	-0.188278	0.013924	-0.000296
1132	6	1018	15	165	-0.014111	0.003895	-0.000296	0.000006
1133	6	1019	15	175	48.277548	-11.453072	0.755903	-0.014742
1134	6	1019	15	175	-11.453072	2.883222	-0.197968	0.003961
1135	6	1019	15	175	0.755903	-0.197968	0.014121	-0.000290
1136	6	1019	15	175	-0.014742	0.003961	-0.000290	0.000006
1137	6	1020	15	-175	405.996000	-62.824397	3.106082	-0.049340
1138	6	1020	15	-175	-62.824397	9.831386	-0.490480	0.007848
1139	6	1020	15	-175	3.106082	-0.490480	0.024659	-0.000397
1140	6	1020	15	-175	-0.049340	0.007348	-0.000397	0.000006
1141	7	1022	15	-155	10.009205	-2.465670	0.166098	-0.003287
1142	7	1022	15	-155	-2.465670	0.655741	-0.046218	0.000941
1143	7	1022	15	-155	0.166098	-0.046218	0.003391	-0.000071
1144	7	1022	15	-155	-0.003287	0.000941	-0.000071	0.000002
1145	7	1023	15	-145	30.892891	-6.723050	0.420228	-0.007933
1146	7	1023	15	-145	-6.723050	1.548124	-0.100154	0.001934
1147	7	1023	15	-145	0.420228	-0.100154	0.006661	-0.000131
1148	7	1023	15	-145	-0.007933	0.001934	-0.000131	0.000003
1149	7	1024	15	-135	2.194426	-0.535515	0.035379	-0.000687
1150	7	1024	15	-135	-0.535515	0.140679	-0.009672	0.000193
1151	7	1024	15	-135	0.035379	-0.009672	0.000688	-0.000014
1152	7	1024	15	-135	-0.000687	0.000193	-0.000014	0.000000
1153	7	1025	15	-125	2.037668	-0.439444	0.026687	-0.000486
1154	7	1025	15	-125	-0.439444	0.100986	-0.006363	0.000119
1155	7	1025	15	-125	0.026687	-0.006363	0.000413	-0.000008
1156	7	1025	15	-125	-0.000486	0.000119	-0.000008	0.000000
1157	7	1025	15	-115	3.118081	-0.651743	0.039366	-0.000717
1158	7	1026	15	-115	-0.651743	0.143262	-0.008930	0.000166
1159	7	1026	15	-115	0.039366	-0.008930	0.000571	-0.000011
1160	7	1026	15	-115	-0.000717	0.000166	-0.000011	0.000000
1161	7	1027	15	-105	15.480788	-5.000478	0.327934	-0.005970
1162	7	1027	15	-105	-5.000478	1.861651	-0.127699	0.002360
1163	7	1027	15	-105	0.327934	-0.127699	0.008767	-0.000163
1164	7	1027	15	-105	-0.005970	0.002360	-0.000163	0.000003
1165	4	1028	15	-95	11.355049	-2.165866	0.121647	-0.002100
1166	4	1028	15	-95	-2.165866	0.423507	-0.024240	0.000425
1167	4	1028	15	-95	0.121647	-0.024240	0.001414	-0.000025
1168	4	1028	15	-95	-0.002100	0.000425	-0.000025	0.000000
1169	4	1029	15	-85	14.027980	-2.759008	0.159077	-0.002803
1170	4	1029	15	-85	-2.759008	0.555652	-0.032637	0.000583
1171	4	1029	15	-85	0.159077	-0.032637	0.001954	-0.000035
1172	4	1029	15	-85	-0.002803	0.000583	-0.000035	0.000001
1173	4	1030	15	-75	31.164544	-5.609340	0.311962	-0.005418
1174	4	1030	15	-75	-5.609340	1.029318	-0.058215	0.001024
1175	4	1030	15	-75	0.311962	-0.058215	0.003347	-0.000060
1176	4	1030	15	-75	-0.005418	0.001024	-0.000060	0.000001

OBS	AREA	TENSQ	LAT	LON	TN1C	TN1SC	TN2SC	TN3SC
1177	4	1031	15	-65	24.646417	-4.397534	0.242119	-0.004179
1178	4	1031	15	-65	-4.397534	0.798819	-0.044662	0.000781
1179	4	1031	15	-65	0.242119	-0.044662	0.002535	-0.000045
1180	4	1031	15	-65	-0.004179	0.000781	-0.000045	0.000001
1181	4	1032	15	-55	14.789497	-2.542469	0.137177	-0.002347
1182	4	1032	15	-55	-2.542469	0.444860	-0.024372	0.000422
1183	4	1032	15	-55	0.137177	-0.024372	0.001355	-0.000024
1184	4	1032	15	-55	-0.002347	0.000422	-0.000024	0.000000
1185	4	1033	15	-45	55.506009	-8.506718	0.411826	-0.006365
1186	4	1033	15	-45	-8.506718	1.323407	-0.064992	0.001018
1187	4	1033	15	-45	0.411826	-0.064992	0.003239	-0.000051
1188	4	1033	15	-45	-0.006365	0.001018	-0.000051	0.000001
1189	5	1103	25	15	972.393209	-233.532968	17.694624	-0.428318
1190	5	1103	25	15	-233.532968	56.701658	-4.336435	0.105795
1191	5	1103	25	15	17.694624	-4.336435	0.334570	-0.008226
1192	5	1103	25	15	-0.428318	0.105795	-0.008226	0.000204
1193	5	1104	25	25	1030.139423	-221.086461	14.999161	-0.324988
1194	5	1104	25	25	-221.086461	48.072312	-3.297985	0.072127
1195	5	1104	25	25	14.999161	-3.297985	0.226630	-0.005046
1196	5	1104	25	25	-0.324988	0.072127	-0.005046	0.000112
1197	5	1105	25	35	265.003611	-56.460064	3.725037	-0.077405
1198	5	1105	25	35	-56.460064	12.235700	-0.818091	0.017177
1199	5	1105	25	35	3.725037	-0.818091	0.055352	-0.001174
1200	5	1105	25	35	-0.077405	0.017177	-0.001174	0.000025
1201	5	1106	25	45	15.348341	-2.781574	0.151497	-0.002578
1202	5	1106	25	45	-2.781574	0.518843	-0.028735	0.000495
1203	5	1106	25	45	0.151497	-0.028735	0.001609	-0.000028
1204	5	1106	25	45	-0.002578	0.000495	-0.000028	0.000000
1205	5	1107	25	55	48.664763	-10.006376	0.625938	-0.012134
1206	5	1107	25	55	-10.006376	2.128620	-0.136344	0.002688
1207	5	1107	25	55	0.625938	-0.136344	0.008900	-0.000178
1208	5	1107	25	55	-0.012134	0.002688	-0.000178	0.000004
1209	5	1108	25	65	14.656367	-3.177169	0.202751	-0.003932
1210	5	1108	25	65	-3.177169	0.710525	-0.046233	0.000908
1211	5	1108	25	65	0.202751	-0.046233	0.003054	-0.000061
1212	5	1108	25	65	-0.003932	0.000908	-0.000061	0.000001
1213	5	1109	25	75	1.497251	-0.360743	0.024205	-0.000487
1214	5	1109	25	75	-0.360743	0.102546	-0.007417	0.000156
1215	5	1109	25	75	0.024205	-0.007417	0.000559	-0.000012
1216	5	1109	25	75	-0.000487	0.000156	-0.000012	0.000000
1217	5	1110	25	85	3.148949	-0.689245	0.043110	-0.000814
1218	5	1110	25	85	-0.689245	0.159360	-0.010294	0.000199
1219	5	1110	25	85	0.043110	-0.010294	0.000682	-0.000013
1220	5	1110	25	85	-0.000814	0.000199	-0.000013	0.000000
1221	5	1111	25	95	15.494926	-3.487565	0.218530	-0.004101
1222	5	1111	25	95	-3.487565	0.819072	-0.052621	0.001004
1223	5	1111	25	95	0.218530	-0.052621	0.003456	-0.000067
1224	5	1111	25	95	-0.004101	0.001004	-0.000067	0.000001
1225	6	1112	25	105	6.743700	-1.387392	0.085131	-0.001590
1226	6	1112	25	105	-1.387392	0.298658	-0.018947	0.000363
1227	6	1112	25	105	0.085131	-0.018947	0.001238	-0.000024
1228	6	1112	25	105	-0.001590	0.000363	-0.000024	0.000000
1229	6	1113	25	115	2.919935	-0.592844	0.036163	-0.000671
1230	6	1113	25	115	-0.592844	0.128134	-0.008140	0.000155
1231	6	1113	25	115	0.036163	-0.008140	0.000534	-0.000010
1232	6	1113	25	115	-0.000671	0.000155	-0.000010	0.000000

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
1233	6	1114	25	125	28.580055	-7.265644	0.545270	-0.012578
1234	6	1114	25	125	-7.265644	1.938290	-0.150235	0.003547
1235	6	1114	25	125	0.545270	-0.150235	0.011965	-0.000289
1236	6	1114	25	125	-0.012578	0.003547	-0.000289	0.000007
1237	6	1115	25	135	690.675373	-152.795498	10.161772	-0.210725
1238	6	1115	25	135	-152.795498	34.181148	-2.292845	0.047872
1239	6	1115	25	135	10.161772	-2.292845	0.155100	-0.003262
1240	6	1115	25	135	-0.210725	0.047872	-0.003262	0.000069
1241	6	1116	25	145	16.345582	-3.991957	0.279428	-0.005929
1242	6	1116	25	145	-3.991957	1.081707	-0.080238	0.001768
1243	6	1116	25	145	0.279428	-0.080238	0.006201	-0.000141
1244	6	1116	25	145	-0.005929	0.001768	-0.000141	0.000003
1245	6	1117	25	155	0.720371	-0.259079	0.020517	-0.000453
1246	6	1117	25	155	-0.259079	0.133707	-0.011637	0.000269
1247	6	1117	25	155	0.020517	-0.011637	0.001066	-0.000026
1248	6	1117	25	155	-0.000453	0.000269	-0.000026	0.000001
1249	6	1118	25	165	12.468987	-3.052421	0.210845	-0.004379
1250	6	1118	25	165	-3.052421	0.805954	-0.058080	0.001240
1251	6	1118	25	165	0.210845	-0.058080	0.004323	-0.000095
1252	6	1118	25	165	-0.004379	0.001240	-0.000095	0.000002
1253	6	1119	25	175	122.054906	-30.378286	1.976959	-0.037916
1254	6	1119	25	175	-30.378286	8.206926	-0.554498	0.010884
1255	6	1119	25	175	1.976959	-0.554498	0.038548	-0.000774
1256	6	1119	25	175	-0.037916	0.010884	-0.000774	0.000016
1257	6	1120	25	-175	5.848113	-1.422406	0.092507	-0.001777
1258	6	1120	25	-175	-1.422406	0.373390	-0.025058	0.000490
1259	6	1120	25	-175	0.092507	-0.025058	0.001709	-0.000034
1260	6	1120	25	-175	-0.001777	0.000490	-0.000039	0.000001
1261	7	1121	25	-165	7.178029	-1.671269	0.106544	-0.002034
1262	7	1121	25	-165	-1.671269	0.419699	-0.027681	0.000539
1263	7	1121	25	-165	0.106544	-0.027681	0.001862	-0.000037
1264	7	1121	25	-165	-0.002034	0.000539	-0.000037	0.000001
1265	7	1122	25	-155	5.217741	-1.255902	0.082754	-0.001618
1266	7	1122	25	-155	-1.255902	0.333284	-0.022995	0.000462
1267	7	1122	25	-155	0.082754	-0.022995	0.001634	-0.000034
1268	7	1122	25	-155	-0.001618	0.000462	-0.000034	0.000001
1269	7	1123	25	-145	13.746966	-2.852924	0.170637	-0.003096
1270	7	1123	25	-145	-2.852924	0.635515	-0.039320	0.000731
1271	7	1123	25	-145	0.170637	-0.039320	0.002503	-0.000047
1272	7	1123	25	-145	-0.003096	0.000731	-0.000047	0.000001
1273	7	1124	25	-135	2.626380	-0.638423	0.041266	-0.000786
1274	7	1124	25	-135	-0.638423	0.172688	-0.011707	0.000229
1275	7	1124	25	-135	0.041266	-0.011707	0.000819	-0.000016
1276	7	1124	25	-135	-0.000786	0.000229	-0.000016	0.000000
1277	7	1125	25	-125	1.147480	-0.255367	0.015949	-0.000299
1278	7	1125	25	-125	-0.255367	0.061917	-0.004045	0.000078
1279	7	1125	25	-125	0.015949	-0.004045	0.000273	-0.000005
1280	7	1125	25	-125	-0.000299	0.000078	-0.000005	0.000000
1281	7	1126	25	-115	9.996578	-2.057488	0.121615	-0.002187
1282	7	1126	25	-115	-2.057488	0.445383	-0.027096	0.000497
1283	7	1126	25	-115	0.121615	-0.027096	0.001684	-0.000031
1284	7	1126	25	-115	-0.002187	0.000497	-0.000031	0.000001
1285	4	1128	25	-95	341995	-40823.3	1617.559045	-21.282041
1286	4	1128	25	-95	-40823.3	4876.232427	-193.338898	2.545372
1287	4	1128	25	-95	1617.559045	-193.338898	7.670702	-0.101052
1288	4	1128	25	-95	-21.282041	2.545372	-0.101052	0.001332

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
1289	4	1129	25	-85	160.129754	-26.476366	1.326740	-0.020948
1290	4	1129	25	-85	-26.476366	4.471370	-0.227155	0.003624
1291	4	1129	25	-85	1.326740	-0.227155	0.011664	-0.000188
1292	4	1129	25	-85	-0.020948	0.003624	-0.000188	0.000003
1293	4	1131	25	-65	52.575272	-9.567577	0.545531	-0.009861
1294	4	1131	25	-65	-9.567577	1.767495	-0.102066	0.001864
1295	4	1131	25	-65	0.545531	-0.102066	0.005964	-0.000110
1296	4	1131	25	-65	-0.009861	0.001864	-0.000110	0.000002
1297	4	1132	25	-55	157.041732	-26.923145	1.435919	-0.024170
1298	4	1132	25	-55	-26.923145	4.697737	-0.254104	0.004328
1299	4	1132	25	-55	1.435919	-0.254104	0.013923	-0.000240
1300	4	1132	25	-55	-0.024170	0.004328	-0.000240	0.000004
1301	5	1200	35	-15	0.981110	-0.237768	0.016643	-0.000348
1302	5	1200	35	-15	-0.237768	0.099704	-0.008465	0.000194
1303	5	1200	35	-15	0.016643	-0.008465	0.000753	-0.000018
1304	5	1200	35	-15	-0.000348	0.000194	-0.000018	0.000000
1305	5	1201	35	-5	1.183963	-0.420004	0.034758	-0.000803
1306	5	1201	35	-5	-0.420004	0.245115	-0.022727	0.000551
1307	5	1201	35	-5	0.034758	-0.022727	0.002153	-0.000053
1308	5	1201	35	-5	-0.000803	0.000551	-0.000053	0.000001
1309	5	1202	35	5	12.869704	-2.659624	0.174183	-0.003615
1310	5	1202	35	5	-2.659624	0.659444	-0.048772	0.001101
1311	5	1202	35	5	0.174183	-0.048772	0.003865	-0.000091
1312	5	1202	35	5	-0.003615	0.001101	-0.000091	0.000002
1313	5	1203	35	15	2589.239464	-528.279664	34.717690	-0.736887
1314	5	1203	35	15	-528.279664	108.315559	-7.152394	0.152483
1315	5	1203	35	15	34.717690	-7.152394	0.474598	-0.010165
1316	5	1203	35	15	-0.736887	0.152483	-0.010165	0.000219
1317	5	1204	35	25	1859.220277	-376.789534	24.278075	-0.500809
1318	5	1204	35	25	-376.789534	76.906981	-4.986942	0.103433
1319	5	1204	35	25	24.278075	-4.986942	0.325354	-0.006785
1320	5	1204	35	25	-0.500809	0.103433	-0.006785	0.000142
1321	5	1205	35	35	424.883402	-82.282101	5.022336	-0.097497
1322	5	1205	35	35	-82.282101	16.177616	-0.999431	0.019589
1323	5	1205	35	35	5.022336	-0.994431	0.062395	-0.001234
1324	5	1205	35	35	-0.097497	0.019589	-0.001234	0.000025
1325	5	1206	35	45	37.737500	-8.126146	0.524665	-0.010445
1326	5	1206	35	45	-8.126146	1.790948	-0.117427	0.002365
1327	5	1206	35	45	0.524665	-0.117427	0.007797	-0.000159
1328	5	1206	35	45	-0.010445	0.002365	-0.000159	0.000003
1329	5	1207	35	55	61.932720	-12.999481	0.821220	-0.015996
1330	5	1207	35	55	-12.999481	2.805295	-0.180511	0.003563
1331	5	1207	35	55	0.821220	-0.180511	0.011786	-0.000235
1332	5	1207	35	55	-0.015996	0.003563	-0.000235	0.000005
1333	5	1208	35	65	0.825009	-0.172148	0.010680	-0.000203
1334	5	1208	35	65	-0.172148	0.037797	-0.002418	0.000047
1335	5	1208	35	65	0.010680	-0.002418	0.000158	-0.000003
1336	5	1208	35	65	-0.000203	0.000047	-0.000003	0.000000
1337	5	1209	35	75	0.230611	-0.053469	0.003493	-0.000068
1338	5	1209	35	75	-0.053469	0.014188	-0.000996	0.000020
1339	5	1209	35	75	0.003493	-0.000996	0.000073	-0.000002
1340	5	1209	35	75	-0.000068	0.000020	-0.000002	0.000000
1341	5	1210	35	85	1.179923	-0.290726	0.018333	-0.000338
1342	5	1210	35	85	-0.290726	0.097543	-0.006776	0.000131
1343	5	1210	35	85	0.018333	-0.006776	0.000487	-0.000010
1344	5	1210	35	85	-0.000338	0.000131	-0.000010	0.000000

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
1345	6	1213	35	115	69.063815	-14.673151	0.947434	-0.018115
1346	6	1213	35	115	-14.673151	3.233724	-0.214555	0.004175
1347	6	1213	35	115	0.947434	-0.214555	0.014546	-0.000287
1348	6	1213	35	115	-0.018115	0.004175	-0.000287	0.000006
1349	6	1214	35	125	3.109158	-0.952069	0.091197	-0.002753
1350	6	1214	35	125	-0.952069	0.307423	-0.030655	0.000955
1351	6	1214	35	125	0.091197	-0.030655	0.003157	-0.000101
1352	6	1214	35	125	-0.002753	0.000955	-0.000101	0.000003
1353	6	1215	35	135	16.846977	-4.590373	0.368704	-0.009017
1354	6	1215	35	135	-4.590373	1.322485	-0.109930	0.002751
1355	6	1215	35	135	0.368704	-0.109930	0.009373	-0.000239
1356	6	1215	35	135	-0.009017	0.002751	-0.000239	0.000006
1357	6	1216	35	145	17.317495	-5.048275	0.415243	-0.010232
1358	6	1216	35	145	-5.048275	1.672041	-0.146631	0.003760
1359	6	1216	35	145	0.415243	-0.146631	0.013366	-0.000354
1360	5	1216	35	145	-0.010232	0.003760	-0.000354	0.000010
1361	6	1217	35	155	13.471234	-4.132645	0.351753	-0.008907
1362	6	1217	35	155	-4.132645	1.363513	-0.120558	0.003130
1363	6	1217	35	155	0.351753	-0.120558	0.010963	-0.000291
1364	6	1217	35	155	-0.008907	0.003130	-0.000291	0.000008
1365	6	1218	35	165	10.834728	-2.879276	0.221687	-0.005110
1366	6	1218	35	165	-2.879276	0.832223	-0.067299	0.001602
1367	6	1218	35	165	0.221687	-0.067299	0.005637	-0.000138
1368	6	1218	35	165	-0.005110	0.001602	-0.000138	0.000003
1369	6	1219	35	175	24.075458	-6.431132	0.494563	-0.011424
1370	6	1219	35	175	-6.431132	1.940135	-0.158540	0.003799
1371	6	1219	35	175	0.494563	-0.158540	0.013402	-0.000329
1372	6	1219	35	175	-0.011424	0.003799	-0.000329	0.000008
1373	6	1220	35	-175	204.875398	-49.096955	3.561856	-0.079686
1374	6	1220	35	-175	-49.096955	12.195769	-0.906573	0.020623
1375	6	1220	35	-175	3.561856	-0.906573	0.068676	-0.001584
1376	6	1220	35	-175	-0.079686	0.020623	-0.001584	0.000037
1377	7	1221	35	-165	7.185601	-1.732646	0.120910	-0.002552
1378	7	1221	35	-165	-1.732646	0.450385	-0.032844	0.000714
1379	7	1221	35	-165	0.120910	-0.032844	0.002475	-0.000055
1380	7	1221	35	-165	-0.002552	0.000714	-0.000055	0.000001
1381	7	1222	35	-155	9.129932	-2.483821	0.192819	-0.004518
1382	7	1222	35	-155	-2.483821	0.724556	-0.058492	0.001407
1383	7	1222	35	-155	0.192819	-0.058492	0.004861	-0.000120
1384	7	1222	35	-155	-0.004518	0.001407	-0.000120	0.000003
1385	7	1223	35	-145	1.037714	-0.289888	0.021220	-0.000451
1386	7	1223	35	-145	-0.289888	0.091690	-0.007099	0.000156
1387	7	1223	35	-145	0.021220	-0.007099	0.000572	-0.000013
1388	7	1223	35	-145	-0.000451	0.000156	-0.000013	0.000000
1389	11	1224	35	-135	0.332012	-0.086684	0.005986	-0.000121
1390	11	1224	35	-135	-0.086684	0.029171	-0.002226	0.000048
1391	11	1224	35	-135	0.005986	-0.002226	0.000179	-0.000004
1392	11	1224	35	-135	-0.000121	0.000048	-0.000004	0.000000
1393	7	1225	35	-125	4.658683	-1.213108	0.082534	-0.001624
1394	7	1225	35	-125	-1.213108	0.399493	-0.029671	0.000611
1395	7	1225	35	-125	0.082534	-0.029671	0.002299	-0.000049
1396	7	1225	35	-125	-0.001624	0.000611	-0.000049	0.000001
1397	5	1234	45	-135	1292.728016	-188.116512	9.246854	-0.146549
1398	5	1234	45	-135	-188.116512	28.523283	-1.404164	0.022281
1399	5	1234	45	-135	9.246854	-1.404164	0.069220	-0.001100
1400	5	1234	45	-135	-0.146549	0.022281	-0.001100	0.000017

OBS	AREA	TENSG	LAT	LON	TN1C	TN1SC	TN2SC	TN3SC
1401	5	1235	45	-25	169.508223	-29.162081	1.626336	-0.029410
1402	5	1235	45	-25	-29.162081	5.048482	-0.283163	0.005147
1403	5	1235	45	-25	1.626336	-0.283163	0.015969	-0.000292
1404	5	1235	45	-25	-0.029410	0.005147	-0.000292	0.000005
1405	5	1300	45	-15	2.164186	-1.140505	0.100681	-0.002415
1406	5	1300	45	-15	-1.140505	0.724748	-0.066064	0.001607
1407	5	1300	45	-15	0.100681	-0.066064	0.006117	-0.000151
1408	5	1300	45	-15	-0.002415	0.001607	-0.000151	0.000004
1409	5	1301	45	-5	17.586235	-2.656287	0.130879	-0.002111
1410	5	1301	45	-5	-2.656287	0.402946	-0.019948	0.000323
1411	5	1301	45	-5	0.130879	-0.019948	0.000993	-0.000016
1412	5	1301	45	-5	-0.002111	0.000323	-0.000016	0.000000
1413	8	1302	45	5	[illegible]	-10.159637	1.213663	-0.040975
1414	8	1302	45	5	-10.159637	6.954698	-0.881622	0.030569
1415	8	1302	45	5	1.213663	-0.881622	0.113524	-0.003973
1416	8	1302	45	5	-0.040975	0.030569	-0.003973	0.000140
1417	5	1303	45	15	48.620416	-16.088307	1.574860	-0.047369
1418	5	1303	45	15	-16.088307	6.972461	-0.770385	0.024813
1419	5	1303	45	15	1.574860	-0.770385	0.089223	-0.002952
1420	5	1303	45	15	-0.047369	0.024813	-0.002952	0.000099
1421	5	1304	45	25	2896.059725	-833.683362	73.771797	-2.053759
1422	5	1304	45	25	-833.683362	243.957099	-21.854352	0.614453
1423	5	1304	45	25	73.771797	-21.854352	1.979255	-0.056193
1424	5	1304	45	25	-2.053759	0.614453	-0.056193	0.001610
1425	5	1305	45	35	218.059927	-68.432989	6.359053	-0.182880
1426	5	1305	45	35	-68.432989	21.841421	-2.050984	0.059428
1427	5	1305	45	35	6.359053	-2.050984	0.199192	-0.005665
1428	5	1305	45	35	-0.182880	0.059428	-0.005665	0.000166
1429	5	1306	45	45	31.918227	-9.171666	0.726340	-0.017004
1430	5	1306	45	45	-9.171666	2.975495	-0.251577	0.006156
1431	5	1306	45	45	0.726340	-0.251577	0.022379	-0.000571
1432	5	1306	45	45	-0.017004	0.006156	-0.000571	0.000015
1433	5	1307	45	55	113.974425	-29.258232	2.147673	-0.046814
1434	5	1307	45	55	-29.258232	7.772441	-0.583020	0.012892
1435	5	1307	45	55	2.147673	-0.583020	0.044550	-0.000999
1436	5	1307	45	55	-0.046814	0.012892	-0.000999	0.000023
1437	5	1308	45	65	0.157628	-0.051307	0.004491	-0.000111
1438	5	1308	45	65	-0.051307	0.018648	-0.001747	0.000045
1439	5	1308	45	65	0.004491	-0.001747	0.000174	-0.000005
1440	5	1308	45	65	-0.000111	0.000045	-0.000005	0.000000
1441	5	1309	45	75	0.033065	-0.012627	0.001222	-0.000034
1442	5	1309	45	75	-0.012627	0.006696	-0.000733	0.000022
1443	5	1309	45	75	0.001222	-0.000733	0.000086	-0.000003
1444	5	1309	45	75	-0.000034	0.000022	-0.000003	0.000000
1445	6	1314	45	125	2.977395	-0.733289	0.068456	-0.002015
1446	6	1314	45	125	-0.733289	0.224175	-0.021511	0.000647
1447	6	1314	45	125	0.068456	-0.021511	0.002115	-0.000065
1448	6	1314	45	125	-0.002015	0.000647	-0.000065	0.000002
1449	6	1315	45	135	2.213506	-0.738918	0.075770	-0.002394
1450	6	1315	45	135	-0.738918	0.280739	-0.031758	0.001075
1451	6	1315	45	135	0.075770	-0.031758	0.003861	-0.000137
1452	6	1315	45	135	-0.002394	0.001075	-0.000137	0.000005
1453	6	1316	45	145	2.191421	-1.013599	0.138349	-0.005664
1454	6	1316	45	145	-1.013599	0.732025	-0.123311	0.005676
1455	6	1316	45	145	0.138349	-0.123311	0.022612	-0.001091
1456	6	1316	45	145	-0.005664	0.005676	-0.001091	0.000054

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
1457	6	1317	45	155	76.598619	-31.237925	3.787635	-0.139922
1458	6	1317	45	155	-31.237925	13.175504	-1.638355	0.061690
1459	6	1317	45	155	3.787635	-1.638355	0.208561	-0.008009
1460	6	1317	45	155	-0.139922	0.061690	-0.008009	0.000313
1461	6	1318	45	165	19.249265	-9.422224	1.357520	-0.059013
1462	6	1318	45	165	-9.422224	6.531184	-1.134723	0.055241
1463	6	1318	45	165	1.357520	-1.134723	0.216921	-0.011178
1464	6	1318	45	165	-0.059013	0.055241	-0.011178	0.000598
1465	6	1319	45	175	7.127156	-2.902510	0.330057	-0.010957
1466	6	1319	45	175	-2.902510	1.654194	-0.222830	0.008187
1467	6	1319	45	175	0.330057	-0.222830	0.033151	-0.001298
1468	6	1319	45	175	-0.010957	0.008187	-0.001298	0.000053
1469	6	1320	45	-175	3.813593	-1.952752	0.289351	-0.012837
1470	6	1320	45	-175	-1.952752	1.427671	-0.262903	0.013364
1471	6	1320	45	-175	0.289351	-0.262903	0.055027	-0.003011
1472	6	1320	45	-175	-0.012837	0.013364	-0.003011	0.000172
1473	7	1321	45	-165	3.669168	-1.592511	0.160812	-0.004394
1474	7	1321	45	-165	-1.592511	0.851829	-0.097081	0.002856
1475	7	1321	45	-165	0.160812	-0.097081	0.012799	-0.000412
1476	7	1321	45	-165	-0.004394	0.002856	-0.000412	0.000014
1477	7	1322	45	-155	0.584530	-0.327004	0.042858	-0.001481
1478	7	1322	45	-155	-0.327004	0.232455	-0.033454	0.001213
1479	7	1322	45	-155	0.042858	-0.033454	0.005199	-0.000198
1480	7	1322	45	-155	-0.001481	0.001213	-0.000198	0.000008
1481	7	1323	45	-145	0.334608	-0.143720	0.015240	-0.000454
1482	7	1323	45	-145	-0.143720	0.075849	-0.008761	0.000274
1483	7	1323	45	-145	0.015240	-0.008761	0.001081	-0.000035
1484	7	1323	45	-145	-0.000454	0.000274	-0.000035	0.000001
1485	7	1324	45	-135	0.198268	-0.118656	0.012934	-0.000379
1486	7	1324	45	-135	-0.118656	0.128160	-0.015612	0.000483
1487	7	1324	45	-135	0.012934	-0.015612	0.002083	-0.000069
1488	7	1324	45	-135	-0.000379	0.000483	-0.000069	0.000002
1489	5	1335	45	-125	18788.3	-3774.88	249.353395	-5.419025
1490	5	1335	45	-125	-3774.88	760.166944	-50.324701	1.095953
1491	5	1335	45	-125	249.353395	-50.324701	3.338876	-0.072864
1492	5	1335	45	-125	-5.419025	1.095953	-0.072864	0.001593
1493	9	1400	55	-15	2.089056	-0.734292	0.078201	-0.002558
1494	9	1400	55	-15	-0.734292	0.269905	-0.029762	0.000999
1495	9	1400	55	-15	0.078201	-0.029762	0.003385	-0.000117
1496	9	1400	55	-15	-0.002558	0.000999	-0.000117	0.000004
1497	8	1401	55	-5	4.023633	-1.593323	0.185786	-0.006348
1498	8	1401	55	-5	-1.593323	0.749734	-0.097130	0.003566
1499	8	1401	55	-5	0.185786	-0.097130	0.013619	-0.000527
1500	8	1401	55	-5	-0.006348	0.003566	-0.000527	0.000021
1501	8	1402	55	5	17.040971	-6.991890	0.871152	-0.033261
1502	8	1402	55	5	-6.991890	3.411398	-0.470040	0.019099
1503	8	1402	55	5	0.871152	-0.470040	0.068423	-0.002877
1504	8	1402	55	5	-0.033261	0.019099	-0.002877	0.000124
1505	5	1403	55	15	227716	-77560	8728.480674	-324.799776
1506	5	1403	55	15	-77560	26441	-2978.24	110.918633
1507	5	1403	55	15	8728.480674	-2978.24	335.750059	-12.514864
1508	5	1403	55	15	-324.799776	110.918633	-12.514864	0.466872
1509	5	1404	55	25	5595.115155	-2108.88	257.268994	-10.158077
1510	5	1404	55	25	-2108.88	801.929582	-98.567815	3.916110
1511	5	1404	55	25	257.268994	-98.567815	12.195009	-0.487194
1512	5	1404	55	25	-10.158077	3.916110	-0.487194	0.019556

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
1513	5	1405	55	35	531.436150	-239.627540	33.756449	-1.495883
1514	5	1405	55	35	-239.627540	109.853097	-15.680515	0.701930
1515	5	1405	55	35	33.756449	-15.680515	2.264255	-0.102308
1516	5	1405	55	35	-1.495883	0.701930	-0.102308	0.004659
1517	5	1406	55	45	1.255149	-0.489749	0.050026	-0.001073
1518	5	1406	55	45	-0.489749	0.237816	-0.028412	0.000638
1519	5	1406	55	45	0.050026	-0.028412	0.003821	-0.000089
1520	5	1406	55	45	-0.001073	0.000638	-0.000089	0.000002
1521	5	1407	55	55	0.185850	0.038873	-0.037750	0.003953
1522	5	1407	55	55	0.038873	0.072410	-0.031559	0.002819
1523	5	1407	55	55	-0.037750	-0.031559	0.017767	-0.001754
1524	5	1407	55	55	0.003953	0.002819	-0.001754	0.000183
1525	5	1408	55	65	0.760158	-0.299183	-0.085893	0.025908
1526	5	1408	55	65	-0.299183	2.486062	-1.354998	0.181170
1527	5	1408	55	65	-0.085893	-1.354998	1.015261	-0.158962
1528	5	1408	55	65	0.025908	0.181170	-0.158962	0.026593
1529	6	1414	55	125	9612.084295	-3221.26	351.594912	-12.509673
1530	6	1414	55	125	-3221.26	1088.000907	-118.753653	4.239418
1531	6	1414	55	125	351.594912	-118.753653	13.054278	-0.467547
1532	6	1414	55	125	-12.509673	4.239418	-0.467547	0.016800
1533	6	1415	55	135	4.343780	-2.123266	0.308173	-0.013404
1534	6	1415	55	135	-2.123266	1.092384	-0.165061	0.007399
1535	6	1415	55	135	0.308173	-0.165061	0.025893	-0.001197
1536	6	1415	55	135	-0.013404	0.007399	-0.001197	0.000057
1537	6	1416	55	145	17.813613	-8.319564	1.168350	-0.050011
1538	6	1416	55	145	-8.319564	4.117587	-0.607005	0.026928
1539	6	1416	55	145	1.168350	-0.607005	0.093630	-0.004296
1540	6	1416	55	145	-0.050011	0.026928	-0.004296	0.000202
1541	6	1417	55	155	0.948225	-0.456647	0.065564	-0.002892
1542	6	1417	55	155	-0.456647	0.338915	-0.063971	0.003424
1543	6	1417	55	155	0.065564	-0.063971	0.013938	-0.000815
1544	6	1417	55	155	-0.002892	0.003424	-0.000815	0.000050
1545	6	1418	55	165	0.202220	-0.063444	0.005048	-0.000087
1546	6	1418	55	165	-0.063444	0.045849	-0.007306	0.000301
1547	6	1418	55	165	0.005048	-0.007306	0.001597	-0.000077
1548	6	1418	55	165	-0.000087	0.000301	-0.000077	0.000004
1549	6	1419	55	175	2.309161	0.328973	-0.370305	0.036992
1550	6	1419	55	175	0.328973	0.223356	-0.109541	0.009343
1551	6	1419	55	175	-0.370305	-0.109541	0.083669	-0.008179
1552	6	1419	55	175	0.036992	0.009343	-0.008179	0.000849
1553	6	1420	55	-175	1587.043884	-1117.75	243.578324	-15.984431
1554	6	1420	55	-175	-1117.75	802.588459	-177.609882	11.773129
1555	6	1420	55	-175	243.578324	-177.609882	39.808738	-2.661508
1556	6	1420	55	-175	-15.984431	11.773129	-2.661508	0.179068
1557	7	1421	55	-165	16.139456	-9.339505	1.520712	-0.073927
1558	7	1421	55	-165	-9.339505	7.739590	-1.631780	0.093906
1559	7	1421	55	-165	1.520712	-1.631780	0.409434	-0.025856
1560	7	1421	55	-165	-0.073927	0.093906	-0.025856	0.001712
1561	10	1500	65	-15	532.102563	-357.910997	75.256717	-5.014539
1562	10	1500	65	-15	-357.910997	241.071781	-50.753974	3.385744
1563	10	1500	65	-15	75.256717	-50.753974	10.700028	-0.714728
1564	10	1500	65	-15	-5.014539	3.385744	-0.714728	0.047806
1565	10	1501	65	-5	0.030915	-0.011742	0.001392	-0.000051
1566	10	1501	65	-5	-0.011742	0.008514	-0.001420	0.000064
1567	10	1501	65	-5	0.001392	-0.001420	0.000263	-0.000012
1568	10	1501	65	-5	-0.000051	0.000064	-0.000012	0.000001

OBS	AREA	TENSO	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
1569	10	1502	65	5	0.057432	-0.024137	0.002806	-0.000094
1570	10	1502	65	5	-0.024137	0.039735	-0.006515	0.000297
1571	10	1502	65	5	0.002806	-0.006515	0.001387	-0.000071
1572	10	1502	65	5	-0.000094	0.000297	-0.000071	0.000004
1573	10	1503	65	15	0.032583	-0.003257	-0.001442	0.000149
1574	10	1503	65	15	-0.003257	0.039315	-0.009416	0.000605
1575	10	1503	65	15	-0.001442	-0.009416	0.003143	-0.000224
1576	10	1503	65	15	0.000149	0.000605	-0.000224	0.000017
1577	10	1504	65	25	0.027003	-0.003280	-0.000327	0.000033
1578	10	1504	65	25	-0.003280	0.009989	-0.000833	0.000033
1579	10	1504	65	25	-0.000327	-0.000833	0.000203	-0.000011
1580	10	1504	65	25	0.000033	0.000033	-0.000011	[illegible]
1581	10	1505	65	35	1.699062	-0.771163	0.107628	-0.004654
1582	10	1505	65	35	-0.771163	0.601387	-0.115440	0.006163
1583	10	1505	65	35	0.107628	-0.115440	0.025169	-0.001442
1584	10	1505	65	35	-0.004654	0.006163	-0.001442	0.000086
1585	10	1506	65	45	0.937731	-0.742304	0.165547	-0.011017
1586	10	1506	65	45	-0.742304	1.990345	-0.651085	0.053302
1587	10	1506	65	45	0.165547	-0.651085	0.237826	-0.020754
1588	10	1506	65	45	-0.011017	0.053302	-0.020754	0.001890
1589	10	1507	65	55	0.181682	0.022963	-0.034807	0.004029
1590	10	1507	65	55	0.022963	0.102258	-0.040557	0.003499
1591	10	1507	65	55	-0.034807	-0.040557	0.024122	-0.002597
1592	10	1507	65	55	0.004029	0.003499	-0.002597	0.000318
1593	10	1508	65	65	0.042001	0.001298	-0.009591	0.001333
1594	10	1508	65	65	0.001298	0.014347	-0.002079	-0.000156
1595	10	1508	65	65	-0.009591	-0.002079	0.005205	-0.000765
1596	10	1508	65	65	0.001333	-0.000156	-0.000765	0.000144
1597	10	1510	65	85	0.051252	0.006590	-0.009731	0.000996
1598	10	1510	65	85	0.006590	0.030690	-0.008462	0.000541
1599	10	1510	65	85	-0.009731	-0.008462	0.006999	-0.000716
1600	10	1510	65	85	0.000996	0.000541	-0.000716	0.000081
1601	10	1511	65	95	0.261557	-0.008194	-0.029850	0.003386
1602	10	1511	65	95	-0.008194	0.130676	-0.045889	0.003715
1603	10	1511	65	95	-0.029850	-0.045889	0.023578	-0.002195
1604	10	1511	65	95	0.003386	0.003715	-0.002195	0.000214
1605	10	1512	65	105	48.397402	265.606240	351.733098	133.676025
1606	10	1512	65	105	265.606240	1917.937684	2765.439374	1098.483281
1607	10	1512	65	105	351.733098	2765.439374	4159.118207	1702.570981
1608	10	1512	65	105	133.676025	1098.483281	1702.570981	714.279361
1609	10	1515	65	135	0.716885	-1.232896	0.240541	-0.012150
1610	10	1515	65	135	-1.232896	5.159689	-1.075332	0.055725
1611	10	1515	65	135	0.240541	-1.075332	0.233624	-0.012462
1612	10	1515	65	135	-0.012150	0.055725	-0.012462	0.000678
1613	6	1516	65	145	4.926642	-1.883973	0.346252	-0.018778
1614	6	1516	65	145	-1.883973	1.362067	-0.236941	0.013229
1615	6	1516	65	145	0.346252	-0.236941	0.046581	-0.002638
1616	6	1516	65	145	-0.018778	0.013229	-0.002618	0.000152
1617	6	1517	65	155	1303.006179	-647.489946	104.547008	-5.497634
1618	6	1517	65	155	-647.489946	322.952649	-52.350810	2.763539
1619	6	1517	65	155	104.547008	-52.350810	8.521995	-0.451763
1620	6	1517	65	155	-5.497634	2.763539	-0.451763	0.024051
1621	6	1518	65	165	0.000676	-0.002215	-0.005265	0.000536
1622	6	1518	65	165	-0.002215	0.019054	-0.005362	0.000355
1623	6	1518	65	165	-0.005265	-0.005362	0.002680	-0.000228
1624	6	1518	65	165	0.000536	0.000355	-0.000228	0.000021

OBS	AREA	TENSQ	LAT	LON	TN1C	TN1SC	TN2SC	TN3SC
1625	10	1518	65	165	0.110304	0.001452	-0.014938	0.001704
1626	10	1518	65	165	0.001452	0.029692	-0.010566	0.000859
1627	10	1518	65	165	-0.014938	-0.010566	0.006742	-0.000678
1628	10	1518	65	165	0.001704	0.000859	-0.000678	0.000073
1629	6	1519	65	175	0.410400	0.072815	-0.081700	0.008631
1630	6	1519	65	175	0.072815	0.070876	-0.019752	0.001153
1631	6	1519	65	175	-0.081700	-0.019752	0.026991	-0.003009
1632	6	1519	65	175	0.008631	0.001153	-0.003009	0.000367
1633	10	1519	65	175	0.175350	0.024633	-0.034684	0.004254
1634	10	1519	65	175	0.024633	0.034100	-0.012608	0.000975
1635	10	1519	65	175	-0.034684	-0.012608	0.012213	-0.001532
1636	10	1519	65	175	0.004254	0.000975	-0.001532	0.000216
1637	6	1520	65	-175	4.621849	-0.549288	-0.974407	0.161563
1638	6	1520	65	-175	-0.549288	1.418973	-0.411963	0.031149
1639	6	1520	65	-175	-0.974407	-0.411963	0.601897	-0.087366
1640	6	1520	65	-175	0.161563	0.031149	-0.087366	0.013481
1641	10	1520	65	-175	1.369602	-0.073214	-1.766852	-0.723013
1642	10	1520	65	-175	-0.073214	1.195412	0.365129	-0.203288
1643	10	1520	65	-175	-1.766852	0.365129	3.560008	1.574646
1644	10	1520	65	-175	-0.723013	-0.203288	1.574646	0.836681
1645	10	1521	65	-165	2.355348	-6.692575	-32.464166	-19.642562
1646	10	1521	65	-165	-6.692575	28.804374	118.083853	69.670053
1647	10	1521	65	-165	-32.464166	118.083853	528.653235	317.029328
1648	10	1521	65	-165	-19.642562	69.670053	317.029328	190.732961
1649	9	1535	65	-25	0.121221	-0.064544	0.008255	-0.000301
1650	9	1535	65	-25	-0.064544	0.037470	-0.005083	0.000193
1651	9	1535	65	-25	0.008255	-0.005083	0.000750	-0.000030
1652	9	1535	65	-25	-0.000301	0.000193	-0.000030	0.000001
1653	10	1600	75	-15	2.156913	-1.645194	0.352433	-0.021646
1654	10	1600	75	-15	-1.645194	1.413751	-0.324070	0.020702
1655	10	1600	75	-15	0.352433	-0.324070	0.077961	-0.005139
1656	10	1600	75	-15	-0.021646	0.020702	-0.005139	0.000348
1657	10	1601	75	-5	0.371957	-0.327468	0.079629	-0.005572
1658	10	1601	75	-5	-0.327468	0.455919	-0.131537	0.009986
1659	10	1601	75	-5	0.079629	-0.131537	0.040328	-0.003154
1660	10	1601	75	-5	-0.005572	0.009986	-0.003154	0.000251
1661	10	1602	75	5	0.387132	-0.050390	-0.019516	0.002398
1662	10	1602	75	5	-0.050390	0.059453	-0.007313	0.000052
1663	10	1602	75	5	-0.019516	-0.007313	0.005297	-0.000496
1664	10	1602	75	5	0.002398	0.000052	-0.000496	0.000058
1665	10	1603	75	15	0.005969	0.000627	-0.002734	0.000520
1666	10	1603	75	15	0.000627	0.004998	-0.001435	0.000040
1667	10	1603	75	15	-0.002734	-0.001435	0.003377	-0.000669
1668	10	1603	75	15	0.000520	0.000040	-0.000669	0.000152
1669	10	1608	75	65	0.229576	0.012509	-0.099238	0.016084
1670	10	1608	75	65	0.012509	0.082953	0.002863	-0.004223
1671	10	1608	75	65	-0.099238	0.002863	0.073812	-0.012994
1672	10	1608	75	65	0.016084	-0.004223	-0.012994	0.002752
1673	10	1609	75	75	0.040934	0.013166	-0.018275	0.002765
1674	10	1609	75	75	0.013166	0.036833	-0.000463	-0.001963
1675	10	1609	75	75	-0.018275	-0.000463	0.021602	-0.004353
1676	10	1609	75	75	0.002765	-0.001963	-0.004353	0.001094
1677	10	1610	75	85	14777.9	30793.3	20962.5	4677.748142
1678	10	1610	75	85	30793.3	64315.8	43875.9	9809.532510
1679	10	1610	75	85	20962.5	43875.9	29991.3	6717.617409
1680	10	1610	75	85	4677.748142	9809.532510	6717.617409	1507.243521

OBS	AREA	TENSQ	LAT	LON	TNIC	TN1SC	TN2SC	TN3SC
1681	10	1611	75	95	1.543834	0.622786	-0.454574	-0.056024
1682	10	1611	75	95	0.622786	2.911769	0.615929	-0.775731
1683	10	1611	75	95	-0.454574	0.615929	0.486539	-0.190770
1684	10	1611	75	95	-0.056024	-0.775731	-0.190770	0.252795
1685	10	1615	75	135	1.836538	-0.630385	-0.779782	0.238562
1686	10	1615	75	135	-0.630385	1.181816	0.536835	-0.259065
1687	10	1615	75	135	-0.779782	0.536835	0.471935	-0.165884
1688	10	1615	75	135	0.238562	-0.259065	-0.165884	0.071252
1689	10	1616	75	145	0.113225	0.020773	-0.041830	0.006089
1690	10	1616	75	145	0.020773	0.032283	0.004165	-0.002991
1691	10	1616	75	145	-0.041830	0.004165	0.031426	-0.005610
1692	10	1616	75	145	0.006089	-0.002991	-0.005610	0.001208
1693	10	1617	75	155	0.112460	0.022166	-0.032349	0.004105
1694	10	1617	75	155	0.022166	0.041629	-0.010455	0.000461
1695	10	1617	75	155	-0.032349	-0.010455	0.018867	-0.002609
1696	10	1617	75	155	0.004105	0.000461	-0.002609	0.000399
1697	10	1618	75	165	0.247103	0.016691	-0.061989	0.008288
1698	10	1618	75	165	0.016691	0.068332	-0.020120	0.001116
1699	10	1618	75	165	-0.061989	-0.020120	0.031890	-0.004296
1700	10	1618	75	165	0.008288	0.001116	-0.004296	0.000673
1701	10	1619	75	175	1.266349	0.318045	-0.238837	0.023056
1702	10	1619	75	175	0.318045	0.187458	-0.057111	0.003251
1703	10	1619	75	175	-0.238837	-0.057111	0.063517	-0.006945
1704	10	1619	75	175	0.023056	0.003251	-0.006945	0.000846
1705	10	1620	75	-175	0.026368	0.009833	-0.024071	-0.012000
1706	10	1620	75	-175	0.009833	0.099825	-0.015326	-0.031732
1707	10	1620	75	-175	-0.024071	-0.015326	0.043615	0.026347
1708	10	1620	75	-175	-0.012000	-0.031732	0.026347	0.027453
1709	10	1621	75	-165	0.128205	0.398440	0.270012	0.063035
1710	10	1621	75	-165	0.398440	3.457016	4.913926	1.826553
1711	10	1621	75	-165	0.270012	4.913926	4.280142	3.397691
1712	10	1621	75	-165	0.063035	1.826553	3.397691	1.473228
1713	10	1622	75	-155	1507543	3020917	2011579	445146
1714	10	1622	75	-155	3020917	6058343	4037258	894075
1715	10	1622	75	-155	2011579	4037258	2692424	596689
1716	10	1622	75	-155	445146	894075	596689	132327
1717	10	1624	75	-135	13553.8	28995.2	20421.3	4737.208077
1718	10	1624	75	-135	28995.2	62168.3	43872.7	10196
1719	10	1624	75	-135	20421.3	43872.7	31019.4	7221.507121
1720	10	1624	75	-135	4737.208077	10196	7221.507121	1683.992247
1721	10	1625	75	-125	966.804269	2293.458954	1712.949682	409.978844
1722	10	1625	75	-125	2293.458954	5526.858159	4170.804801	1005.655039
1723	10	1625	75	-125	1712.949682	4170.804801	3169.760763	768.311424
1724	10	1625	75	-125	409.978844	1005.655039	768.311424	186.984486
1725	10	1626	75	-115	306602	585187	371061	78181.3
1726	10	1626	75	-115	585187	1117386	708821	149407
1727	10	1626	75	-115	371061	708821	449829	94853.3
1728	10	1626	75	-115	78181.3	149407	94853.3	20009
1729	10	1633	75	-45	0.099082	0.059765	-0.114828	0.028100
1730	10	1633	75	-45	0.059765	0.108556	-0.085416	0.013954
1731	10	1633	75	-45	-0.114828	-0.085416	0.264367	-0.054936
1732	10	1633	75	-45	0.028100	-0.013954	-0.054936	-0.016022
1733	10	1634	75	-35	0.136776	-0.075459	-0.012033	-0.000575
1734	10	1634	75	-35	-0.075459	-0.094739	-0.025503	-0.001789
1735	10	1634	75	-35	-0.012033	-0.025503	0.008266	-0.000639
1736	10	1634	75	-35	-0.000575	0.001789	-0.000639	0.000053

OBS	AREA	TENSQ	LAT	LON	THIC	TN1SC	TN2SC	TN3SC
1737	10	1635	75	-25	0.178524	-0.069556	0.007572	-0.000242
1738	10	1635	75	-25	-0.069556	0.095446	-0.023590	0.001555
1739	10	1635	75	-25	0.007572	-0.023590	0.006790	-0.000487
1740	10	1635	75	-25	-0.000242	0.001555	-0.000487	0.000037
1741	10	1700	85	-15	3.090330	-3.779189	1.366578	-0.149830
1742	10	1700	85	-15	-3.779189	6.097611	-2.525440	0.299047
1743	10	1700	85	-15	1.366578	-2.525440	1.112084	-0.136330
1744	10	1700	85	-15	-0.149830	0.299047	-0.136330	0.017064
1745	10	1708	85	65	0.284713	0.378131	-0.084680	0.011301
1746	10	1708	85	65	0.078131	0.426342	0.088042	-0.047387
1747	10	1708	85	65	-0.084680	0.088042	0.125662	-0.033287
1748	10	1708	85	65	0.011301	-0.047387	-0.033287	0.011048
1749	10	1710	85	85	0.368467	-0.352100	-1.094612	-0.454192
1750	10	1710	85	85	-0.352100	1.366695	1.849742	0.533457
1751	10	1710	85	85	-1.094612	1.849742	5.643715	2.524175
1752	10	1710	85	85	-0.454192	0.533457	2.524175	1.255199
1753	10	1711	85	95	614219	1338363	959991	226934
1754	10	1711	85	95	1338363	2910589	2094681	495451
1755	10	1711	85	95	959991	2094683	1504346	356009
1756	10	1711	85	95	226934	495451	356009	84291.9
1757	10	1712	85	105	0.378364	-0.374454	-1.243068	-0.541189
1758	10	1712	85	105	-0.374454	1.578439	2.328924	0.738722
1759	10	1712	85	105	-1.243068	2.328924	7.167976	3.304623
1760	10	1712	85	105	-0.541189	0.738722	3.304623	1.678256
1761	10	1714	85	125	1.595655	-0.873709	-4.123951	-1.926310
1762	10	1714	85	125	-0.873709	6.531758	10.405790	3.705174
1763	10	1714	85	125	-4.123951	10.405790	29.305307	13.343793
1764	10	1714	85	125	-1.926310	3.705174	13.343793	6.591474
1765	10	1715	85	135	374428	751083	499755	110339
1766	10	1715	85	135	751083	1507261	1003342	221618
1767	10	1715	85	135	499755	1003342	668177	147651
1768	10	1715	85	135	110339	221618	147651	32691.2
1769	10	1717	85	155	0.708675	-0.610125	-2.200290	-0.963597
1770	10	1717	85	155	-0.610125	2.140732	3.139690	0.944364
1771	10	1717	85	155	-2.200290	3.139690	10.889664	5.089515
1772	10	1717	85	155	-0.963597	0.944364	5.089514	2.647245

TEMPERATURE VS. NITRATE MEANS, RANGES AND PERCENTILES

OBS	AREA	TENSQ	LAT	LON	TNNL	TNNH	TNNH	TN7L	TNTH	TNTH	TLNTC	TLNTN	TLNT25	TLNTH	TLNT75
1	1	102	-75	5	23.5	26.7	30.8	-1.8	-1.7	-1.6	5	[illegible]			
2	1	103	-75	15	2.8	24.4	31.7	-1.9	-0.7	0.7	5	3	0.5	0.7	0.7
3	1	104	-75	25	0.6	27.1	34.5	-2.0	-1.0	1.7	5	2	0.3	0.3	0.1
4	1	105	-75	35	0.0	26.0	39.6	-2.4	-1.6	0.7	5	9	-1.9	-1.8	-1.5
5	1	106	-75	45	2.8	25.1	32.0	-2.3	-1.4	0.5	5	3	-1.9	-1.9	-1.6
6	1	107	-75	55	7.4	25.1	35.9	-2.1	-1.2	0.3	5	.	.	.	.
7	1	111	-75	95	22.8	30.1	35.6	-1.9	-0.3	1.7	5	.	.	.	.
8	1	112	-75	105	21.1	28.4	35.6	-1.3	0.7	1.9	5	.	.	.	.
9	1	113	-75	115	20.6	28.6	35.1	-1.5	0.5	1.7	5	.	.	.	.
10	1	117	-75	155	14.4	28.6	33.2	-1.8	-0.2	1.6	5	.	.	.	.
11	1	118	-75	165	12.6	27.6	36.1	-1.8	-0.4	1.5	5	.	.	.	.
12	1	119	-75	175	18.5	28.6	33.6	-2.0	-0.4	1.5	5	.	.	.	.
13	1	120	-75	-175	1.1	15.2	38.9	-2.1	-0.6	15.9	5	160	-1.4	-0.9	-0.4
14	1	121	-75	-165	1.0	9.7	34.7	-1.9	-0.2	17.8	5	124	-1.9	-1.7	-1.0
15	1	200	-65	-15	0.8	2.1	[illegible]	0.3	0.9	1.6	5	10	0.8	0.8	1.2
16	1	201	-65	-5	22.9	32.0	33.5	0.2	3.7	9.6	5	.	.	.	.
17	1	203	-65	15	16.8	25.7	33.1	-1.8	-0.9	0.8	5	.	.	.	.
18	1	204	-65	25	6.3	28.0	38.9	-1.9	-0.9	1.5	5	.	.	.	.
19	1	205	-65	35	5.5	26.8	39.7	-2.0	-0.5	1.5	5	.	.	.	.
20	1	206	-65	45	6.3	27.5	40.0	-2.0	-0.3	2.0	5	.	.	.	.
21	1	207	-65	55	1.4	26.0	40.0	-4.0	1.7	19.6	5	12	0.0	0.2	0.9
22	1	208	-65	65	2.2	27.9	38.5	-4.1	3.4	21.6	5	10	-0.6	0.2	0.5
23	1	209	-65	75	9.0	27.7	39.9	-3.8	1.4	6.2	5	.	.	.	.
24	1	210	-65	85	3.6	28.2	40.0	-1.8	0.9	4.6	5	2	-0.3	-0.2	-0.2
25	1	211	-65	95	18.2	29.6	35.9	-1.6	1.6	4.1	5	.	.	.	.
26	1	212	-65	105	20.5	29.2	36.7	-1.8	1.7	4.7	5	.	.	.	.
27	1	213	-65	115	17.3	28.8	36.4	-1.8	1.4	3.9	5	.	.	.	.
28	1	214	-65	125	20.9	30.4	34.7	-1.8	1.1	3.8	5	.	.	.	.
29	1	215	-65	135	23.2	32.0	33.0	-1.1	1.0	2.0	5	.	.	.	.
30	1	216	-65	145	25.7	30.9	37.2	-1.3	0.5	1.7	5	.	.	.	.
31	1	217	-65	155	27.6	28.5	33.9	-1.8	0.4	2.2	5	.	.	.	.
32	1	218	-65	165	21.1	30.0	37.2	-1.8	0.8	4.3	5	.	.	.	.
33	1	219	-65	175	20.4	31.8	32.9	-1.9	0.5	2.4	5	.	.	.	.
34	1	220	-65	-175	22.2	[illegible]	35.9	-4.9	5.5	17.7	5	.	.	.	.
35	1	221	-65	-165	1.8	29.6	39.0	-4.7	9.9	28.3	5	9	0.1	0.7	1.6
36	1	222	-65	-155	14.0	31.2	37.0	-4.8	7.4	28.5	5	.	.	.	.
37	1	223	-65	-145	17.0	26.7	35.8	-1.9	0.6	2.2	5	.	.	.	.
38	1	224	-65	-135	14.3	29.4	38.2	-1.8	0.5	2.1	5	.	.	.	.
39	1	225	-65	-125	9.3	19.8	33.5	-1.9	-0.8	1.4	5	.	.	.	.
40	1	226	-65	-115	7.1	17.0	31.0	-1.8	0.1	1.7	5	.	.	.	.
41	1	227	-65	-105	9.8	16.0	33.3	-1.9	-0.9	0.7	5	.	.	.	.
42	1	228	-65	-95	10.0	18.2	33.1	-1.9	-0.2	1.3	5	.	.	.	.
43	1	229	-65	-85	11.4	12.9	13.9	-1.9	0.2	1.3	5	.	.	.	.
44	1	230	-65	-75	0.9	16.0	31.8	-1.9	-0.0	2.0	5	16	-1.6	-1.2	-0.3
45	1	231	-65	-65	0.9	1.4	1.8	-1.7	-1.0	0.4	5	9	-1.6	-1.5	-0.3
46	1	232	-65	-55	0.6	1.4	1.6	-1.8	-0.6	1.4	5	15	-1.5	-1.0	0.6
47	1	233	-65	-45	1.3	1.7	2.1	-1.7	-1.1	0.4	5	8	-1.7	-1.6	-0.3
48	2	301	-55	-5	24.2	30.3	34.5	-2.4	10.9	15.2	5	.	.	.	.
49	2	302	-55	5	8.2	15.4	34.5	-3.8	0.5	9.4	5	.	.	.	.
50	2	303	-55	15	1.6	31.0	35.5	-4.0	4.7	17.6	5	.	.	.	.
51	2	304	-55	25	14.4	30.4	40.0	-4.7	1.9	16.5	5	.	.	.	.
52	2	305	-55	35	15.3	31.6	40.0	-1.8	0.5	3.7	5	.	.	.	.
53	2	306	-55	45	15.0	31.1	38.8	-2.9	7.9	32.7	5	.	.	.	.
54	2	307	-55	55	0.0	24.1	36.3	-3.9	7.5	34.0	5	13	-0.5	0.1	21.9
55	2	308	-55	65	0.0	19.1	39.5	-4.5	6.4	34.8	5	82	8.3	10.6	12.3
56	3	309	-55	75	0.0	16.1	39.0	1.8	7.1	11.1	5	92	9.3	10.0	10.1

OBS	AREA	TENSQ	LAT	LON	THNL	TNNH	THNH	TNTL	TNTH	TNTH	TLNTC	TLNTN	TLNT25	TLNTM	TLNT75
57	3	310	-55	85	13.1	23.2	36.7	1.8	4.6	9.2	5	.	.	.	.
58	3	311	-55	95	16.0	24.5	36.9	0.6	4.4	8.8	5	.	.	.	.
59	3	312	-55	105	19.0	26.2	36.5	1.3	3.5	6.8	5	.	.	.	.
60	3	313	-55	115	17.1	26.0	36.7	0.4	3.7	8.8	5	.	.	.	.
61	3	314	-55	125	15.2	26.0	32.9	0.1	3.8	7.3	5	.	.	.	.
62	3	315	-55	135	20.0	29.3	35.3	-0.4	3.3	5.2	5	.	.	.	.
63	3	316	-55	145	13.3	28.7	40.0	-1.4	2.4	7.6	5	.	.	.	.
64	3	317	-55	155	13.6	26.7	35.4	-1.2	3.1	8.0	5	.	.	.	.
65	3	318	-55	165	10.1	25.3	37.3	0.3	4.4	11.2	5	.	.	.	.
66	3	319	-55	175	10.0	19.8	33.4	2.3	5.8	8.2	5	.	.	.	.
67	3	321	-55	-165	5.9	17.7	37.2	1.0	6.1	10.5	5	.	.	.	.
68	3	322	-55	-155	1.8	25.0	37.3	0.0	5.9	32.3	5	1	7.9	7.9	7.9
69	3	323	-55	-145	16.7	22.5	34.8	-1.6	4.5	5.3	5	.	.	.	.
70	4	324	-55	-135	17.1	27.6	35.7	-0.1	3.5	7.0	5	.	.	.	.
71	4	325	-55	-125	20.7	26.2	33.3	-0.7	3.7	5.2	5	.	.	.	.
72	4	326	-55	-115	7.2	22.9	37.0	-1.8	2.2	5.3	5	.	.	.	.
73	4	329	-55	-95	10.7	13.9	17.9	-0.2	0.9	1.8	5	.	.	.	.
74	4	330	-55	-75	10.7	15.5	27.5	0.0	1.7	3.7	5	.	.	.	.
75	4	332	-55	-55	0.9	0.9	1.0	1.4	1.8	2.1	5	2	1.4	1.8	2.1
76	2	400	-45	-15	12.4	29.5	35.3	4.6	19.2	34.6	5	.	.	.	.
77	2	401	-45	5	6.1	9.1	6.5	9.9	9.9	9.9	5	.	.	.	.
78	2	404	-45	25	3.9	27.1	36.5	1.2	9.6	13.6	5	2	13.5	13.5	13.6
79	2	405	-45	35	10.0	28.6	39.8	0.6	3.4	9.6	5	.	.	.	.
80	2	406	-45	45	0.1	17.8	40.0	1.5	7.8	34.0	5	62	12.4	13.5	19.8
81	2	407	-45	55	0.0	16.5	39.9	1.1	6.7	22.4	5	249	10.8	13.9	15.0
82	2	408	-45	65	0.0	8.9	37.2	1.0	9.5	18.5	5	737	11.2	12.1	14.1
83	2	409	-45	75	0.0	13.5	36.0	2.8	9.3	15.1	5	189	6.3	9.3	13.4
84	2	410	-45	85	0.8	12.4	35.0	1.0	7.1	13.6	5	102	5.2	6.7	9.6
85	2	411	-45	95	1.1	4.9	30.0	4.7	7.4	13.3	5	95	5.4	6.4	9.6
86	2	412	-45	105	0.9	3.0	24.6	4.2	8.1	13.8	5	80	5.7	6.9	10.4
87	2	413	-45	115	0.9	5.4	30.2	4.1	7.5	13.0	5	87	5.6	9.7	9.0
88	2	414	-45	125	0.7	7.2	30.4	0.9	7.3	13.1	5	98	6.1	7.2	8.9
89	3	415	-45	135	0.6	6.8	29.2	1.2	7.9	13.5	5	77	6.4	7.3	9.3
90	3	416	-45	145	0.5	7.4	32.2	4.3	7.8	14.1	5	71	6.4	7.6	9.4
91	3	417	-45	155	0.0	6.0	33.2	4.7	8.4	14.1	5	69	6.6	8.1	10.0
92	3	418	-45	165	0.0	2.4	38.1	1.3	9.4	15.1	5	121	7.0	9.3	11.7
93	3	419	-45	175	0.0	6.7	35.4	0.6	10.0	16.2	5	150	8.6	11.1	13.4
94	3	420	-45	-175	0.0	8.7	35.7	4.5	10.6	17.9	5	77	9.6	12.4	14.8
95	3	421	-45	-165	0.0	6.5	31.3	1.3	10.7	18.7	5	165	10.1	12.3	14.2
96	3	422	-45	-155	0.0	9.8	34.0	3.0	10.5	18.6	5	114	10.6	12.9	14.7
97	3	423	-45	-145	0.0	2.7	34.2	[illegible]	13.3	19.3	5	2036	12.1	13.3	15.0
98	4	424	-45	-135	0.0	14.2	39.5	5.8	9.3	14.8	5	22	12.9	13.3	16.1
99	4	425	-45	-125	0.2	10.2	37.4	5.9	9.1	14.3	5	22	10.4	12.1	12.8
100	4	426	-45	-115	0.2	12.2	38.1	2.9	9.7	17.6	5	20	9.4	11.6	17.0
101	4	427	-45	-105	4.8	13.0	38.6	6.3	9.2	9.9	5	1	9.9	9.9	9.9
102	4	430	-45	-75	2.6	13.6	36.5	1.8	5.7	15.0	5	3	14.1	14.5	15.0
103	4	431	-45	-65	1.8	11.1	[illegible]	2.9	9.8	13.5	5	6	13.2	13.5	15.5
104	2	500	-35	-15	0.0	15.5	35.7	3.3	11.9	21.1	5	14	18.1	19.4	20.9
105	2	501	-35	5	0.1	14.1	31.7	3.6	11.6	22.3	5	9	15.6	16.4	19.6
106	2	504	-35	25	0.0	16.6	32.4	3.0	9.7	20.5	5	10	14.7	15.8	17.5
107	2	505	-35	35	0.0	13.6	31.4	3.8	12.1	22.9	5	12	15.6	17.9	21.3
108	2	506	-35	45	0.0	8.7	40.0	2.9	15.2	34.8	5	890	16.9	18.9	22.1
109	2	507	-35	55	0.0	8.7	38.9	1.3	12.2	25.2	5	2273	12.4	16.4	19.1
110	2	508	-35	65	0.2	2.6	33.7	11.1	14.4	20.2	5	32	13.1	15.2	15.4
111	2	509	-35	75	0.0	15.6	40.0	0.7	10.1	20.1	5	282	18.4	11.5	15.4
112	3	510	-35	85	0.0	14.6	39.1	1.7	11.2	22.5	5	113	14.8	16.2	19.0

OBS	AREA	TENSQ	LAT	LON	TNHL	TNHM	TNHH	TNTL	TNTM	TNTH	TLNTC	TLNTN	TLNT25	TLNTM	TLNT75
113	3	511	-35	95	0.1	11.8	38.4	3.8	11.5	18.7	5	59	14.2	15.4	16.6
114	3	512	-35	105	0.4	14.1	37.6	4.6	9.9	16.1	5	19	13.0	14.5	15.3
115	3	513	-35	115	0.1	8.0	26.9	6.0	12.3	16.6	5	23	13.9	14.9	16.0
116	3	514	-35	125	0.1	8.0	28.9	6.0	14.5	19.2	5	21	17.0	17.9	18.7
117	3	515	-35	135	0.2	11.4	28.0	1.6	10.3	18.6	5	14	13.2	15.3	16.4
118	3	516	-35	145	0.0	13.1	31.1	1.9	10.6	19.2	5	11	14.5	13.9	18.0
119	3	517	-35	155	0.2	17.8	30.0	4.9	8.7	14.9	5	3	11.4	14.9	14.9
120	3	518	-35	165	0.0	10.3	28.9	1.7	11.1	19.8	5	21	14.2	15.7	16.8
121	3	519	-35	175	0.1	11.3	38.4	1.7	11.1	16.3	5	24	13.9	15.4	16.1
122	3	520	-35	-175	0.0	8.9	35.7	1.6	13.6	23.6	5	60	15.1	17.0	18.8
123	3	521	-35	-165	0.0	7.7	39.3	5.2	13.8	22.1	5	120	14.2	16.8	19.3
124	3	522	-35	-155	0.0	2.4	36.5	2.0	17.5	26.6	5	10844	16.4	18.0	19.8
125	4	523	-35	-145	0.0	1.6	33.1	4.4	14.0	19.6	5	203	16.8	14.2	15.7
126	4	524	-35	-135	0.0	7.9	34.3	0.7	12.1	19.3	5	98	12.8	14.7	16.7
127	4	525	-35	-125	0.0	6.7	32.6	4.8	12.4	20.7	5	26	12.4	13.3	16.3
128	4	526	-35	-115	0.0	3.5	39.8	2.1	16.7	26.6	5	1491	17.4	19.0	20.3
129	4	527	-35	-105	0.0	9.3	33.4	4.2	11.5	21.0	5	26	13.5	14.8	16.2
130	4	528	-35	-95	0.0	9.8	39.3	4.8	11.4	17.0	5	24	13.8	14.3	13.9
131	4	529	-35	-85	0.0	8.9	37.3	5.1	11.1	15.4	5	11	13.4	14.2	15.2
132	4	530	-35	-75	0.0	9.3	30.1	5.3	12.1	32.6	5	13	14.0	15.4	17.0
133	4	531	-35	-65	0.0	7.6	38.8	5.8	14.1	31.8	5	85	13.9	15.0	16.9
134	4	532	-35	-55	0.0	7.8	35.0	9.8	13.9	21.8	5	29	15.3	15.7	17.8
135	4	533	-35	-45	0.0	4.3	31.0	7.3	15.2	18.5	5	51	16.4	16.6	18.3
136	4	534	-35	-35	0.0	8.3	32.2	6.8	15.9	21.9	5	74	16.7	17.6	19.6
137	4	535	-35	-25	0.0	10.2	36.1	5.9	15.8	24.7	5	19	17.6	21.1	23.6
138	2	600	-25	-15	0.0	18.5	39.2	3.2	11.7	20.1	5	42	16.0	18.6	19.5
139	2	601	-25	-5	0.1	21.2	39.5	3.8	11.1	24.6	5	12	16.5	21.5	23.3
140	2	604	-25	25	0.1	13.8	36.4	3.4	14.7	28.0	5	63	20.0	22.5	26.9
141	2	605	-25	35	0.0	11.4	39.0	3.4	15.6	34.5	5	603	18.6	22.3	24.0
142	2	606	-25	45	0.0	6.0	38.5	3.0	18.0	29.5	5	4163	16.1	20.7	22.3
143	2	607	-25	55	0.0	0.1	0.8	16.0	16.2	16.4	5	5	7.7	16.1	16.3
144	3	609	-25	75	0.0	7.4	39.9	3.8	11.4	24.2	5	364	[illegible]	11.6	13.6
145	3	610	-25	85	0.0	9.3	40.9	5.8	11.9	32.7	5	206	[illegible]	17.5	17.9
146	3	611	-25	95	0.0	6.2	40.6	2.3	13.5	32.6	5	195	8.9	17.3	19.4
147	3	612	-25	105	0.0	6.8	39.0	4.3	13.8	24.9	5	120	7.4	16.1	20.9
148	3	613	-25	115	0.0	5.0	40.0	4.2	13.7	26.3	5	113	7.2	16.6	20.7
149	3	614	-25	125	0.0	1.5	34.5	4.3	14.0	26.5	5	97	6.8	15.9	19.2
150	3	615	-25	135	0.0	6.3	34.2	4.3	16.2	28.0	5	382	17.2	20.9	23.0
151	3	616	-25	145	0.0	7.5	34.5	4.5	15.3	26.3	5	255	16.4	20.5	23.2
152	3	617	-25	155	0.0	6.3	38.4	2.5	13.7	23.9	5	122	11.3	17.4	19.7
153	3	618	-25	165	0.0	4.3	31.5	2.5	13.4	25.7	5	115	7.8	16.8	19.3
154	3	619	-25	175	0.0	5.1	31.4	2.3	14.1	26.3	5	128	10.1	16.8	20.0
155	3	620	-25	-175	0.0	3.1	35.7	4.5	16.3	26.8	5	124	16.5	19.1	22.0
156	3	621	-25	-165	0.0	3.9	32.6	4.3	15.6	26.9	5	270	11.5	18.6	20.9
157	3	622	-25	-155	0.0	3.7	31.0	4.1	17.7	27.8	5	418	18.1	20.1	22.9
158	3	623	-25	-145	0.0	9.0	0.0	27.6	27.7	27.8	5	4	27.6	27.8	23.8
159	4	626	-25	-115	0.0	5.5	39.0	4.1	17.6	29.2	5	552	18.7	20.8	22.3
160	4	627	-25	-105	0.0	8.2	39.8	2.4	15.2	25.4	5	153	16.9	18.9	21.2
161	4	628	-25	-95	0.0	7.1	29.5	2.5	15.1	25.4	5	47	15.4	19.3	21.5
162	4	629	-25	-85	0.1	7.9	34.2	5.1	14.2	23.1	5	31	16.3	19.1	20.1
163	4	630	-25	-75	0.2	8.5	37.7	2.4	15.1	26.0	5	48	17.8	19.4	22.4
164	4	631	-25	-65	0.0	7.5	37.9	4.9	15.9	26.7	5	112	17.0	20.0	22.6
165	4	632	-25	-55	0.0	6.6	36.5	4.9	16.9	25.8	5	86	19.6	22.1	23.2
166	4	633	-25	-45	0.0	6.9	39.3	4.3	17.8	28.6	5	508	21.4	22.6	24.3
167	4	634	-25	-35	0.0	6.7	35.3	4.7	17.5	27.5	5	401	20.2	21.4	23.1
168	2	700	-15	-15	0.0	27.0	39.8	3.9	12.1	28.5	5	16	20.2	21.9	26.6

OBS	AREA	TENSG	LAT	LON	TNNL	TNNH	TNNH	TNTL	TNTH	TNTH	TLNTC	TLNTN	TLNT25	TLNTM	TLNT75
169	2	701	-15	-5	0.2	28.6	39.9	3.9	9.8	21.5	5	4	21.4	21.4	21.5
170	2	702	-15	5	0.0	16.7	37.5	3.9	13.6	22.0	5	8	19.9	21.2	21.9
171	2	704	-15	25	0.1	17.0	37.6	4.6	14.3	28.4	5	116	22.2	24.1	22.6
172	2	705	-15	35	0.0	13.8	38.5	4.6	15.5	28.5	5	506	22.5	24.6	27.3
173	3	709	-15	75	0.0	16.1	40.0	1.5	14.7	26.3	5	580	12.4	17.3	20.3
174	3	710	-15	85	0.0	13.2	40.0	2.5	14.9	27.5	5	223	12.1	18.0	23.2
175	3	711	-15	95	0.0	11.9	40.0	2.1	15.9	27.5	5	139	15.9	20.0	21.8
176	3	712	-15	105	0.0	13.3	40.0	1.8	17.0	27.8	5	159	21.6	22.6	24.6
177	3	713	-15	115	0.0	8.5	40.0	4.5	19.4	26.6	5	269	21.2	23.1	25.6
178	3	714	-15	125	0.0	6.8	34.5	10.4	18.3	26.9	5	24	17.6	19.1	26.6
179	3	715	-15	135	0.0	10.6	36.9	4.4	17.9	28.1	5	214	22.4	25.6	26.2
180	3	716	-15	145	0.0	9.7	38.7	2.7	18.7	28.8	5	275	22.7	25.1	26.4
181	3	717	-15	155	0.0	9.1	38.8	2.8	18.4	28.7	5	69	23.2	25.3	26.8
182	3	718	-15	165	0.0	10.6	37.0	4.0	18.4	28.6	5	163	23.1	26.1	27.7
183	3	719	-15	175	0.0	11.7	39.3	2.6	17.8	29.8	5	265	23.5	26.1	28.1
184	3	720	-15	-175	0.0	6.9	34.0	4.0	20.7	29.8	5	215	22.6	25.3	27.2
185	3	721	-15	-165	0.0	7.8	32.9	3.9	20.4	29.6	5	364	24.1	26.4	26.0
186	3	722	-15	-155	0.0	10.9	35.3	0.1	17.6	30.3	5	316	22.3	24.8	27.2
187	3	723	-15	-145	0.0	0.9	[illegible]	2.8	23.8	29.4	5	70	22.9	27.9	26.9
188	3	724	-15	-135	0.0	0.2	[illegible]	5.8	23.5	30.3	5	140	25.2	26.1	29.3
189	4	725	-15	-125	0.0	9.6	39.6	2.9	20.4	30.2	5	166	25.4	26.0	28.1
190	4	726	-15	-115	0.0	12.8	39.5	2.7	17.3	29.3	5	155	23.7	25.1	26.8
191	4	727	-15	-105	0.0	14.1	39.3	2.4	15.9	28.8	5	128	21.1	24.4	26.9
192	4	728	-15	-95	0.0	12.7	39.2	4.6	18.2	29.0	5	93	24.1	26.2	27.5
193	4	729	-15	-85	0.3	20.0	38.6	5.2	14.9	26.3	5	4	26.3	26.3	26.3
194	4	730	-15	-75	0.1	12.7	39.1	2.8	16.6	28.8	5	51	22.0	24.2	27.0
195	4	731	-15	-65	0.0	10.5	39.6	2.8	17.8	29.1	5	186	21.2	24.1	25.5
196	4	732	-15	-55	0.0	10.9	40.0	4.7	17.9	29.6	5	835	21.6	25.4	27.5
197	4	733	-15	-45	0.0	8.8	37.3	1.6	19.0	31.0	5	2425	24.2	25.4	27.1
198	4	734	-15	-35	0.0	10.9	35.2	6.4	17.3	28.8	5	45	23.5	24.2	24.6
199	5	800	-5	-15	0.2	24.8	37.7	4.1	13.0	29.1	5	8	21.3	28.6	28.7
200	5	801	-5	-5	0.0	15.4	39.8	2.4	16.0	29.1	5	250	21.5	23.1	27.2
201	5	802	-5	5	0.0	17.4	39.8	2.5	15.1	[illegible]	5	157	22.1	[illegible]	26.4
202	5	803	-5	15	0.0	20.0	39.9	3.9	15.3	[illegible]	5	75	22.1	25.7	27.2
203	5	804	-5	25	0.0	17.9	40.0	2.8	16.2	28.5	5	123	25.0	25.7	27.3
204	5	805	-5	35	0.0	13.9	39.9	4.8	17.5	28.2	5	1302	25.7	26.0	27.3
205	5	806	-5	45	0.0	9.2	37.5	4.3	20.0	29.0	5	421	25.8	26.2	27.1
206	6	809	-5	75	0.1	15.5	39.4	1.5	15.4	28.4	5	65	13.3	17.3	21.1
207	6	810	-5	85	0.0	16.5	40.0	1.1	15.7	23.9	5	611	13.0	20.4	21.5
208	6	811	-5	95	0.0	22.3	40.0	1.6	14.3	28.2	5	86	12.4	20.5	25.9
209	6	812	-5	105	0.1	22.1	40.0	5.4	14.8	27.2	5	30	22.4	25.0	26.2
210	6	813	-5	115	0.0	21.4	40.0	4.4	15.7	26.4	5	46	22.6	26.0	25.7
211	6	814	-5	125	3.6	21.9	39.9	4.8	15.4	26.5	5	7	23.3	25.8	26.1
212	6	815	-5	135	2.5	15.9	40.0	4.6	17.7	26.4	5	45	25.5	25.8	26.0
213	6	816	-5	145	0.3	13.4	40.0	2.4	18.5	27.4	5	125	23.5	21.6	26.5
214	6	817	-5	155	0.0	10.7	39.7	2.6	17.3	28.9	5	118	10.1	26.1	26.4
215	6	818	-5	165	0.0	12.9	40.0	2.9	17.3	29.1	5	196	22.1	26.5	28.1
216	6	819	-5	175	0.0	12.4	38.1	4.8	16.9	29.4	5	197	15.5	28.0	28.2
217	7	820	-5	-175	0.0	8.8	37.3	4.6	22.2	29.9	5	820	27.2	28.5	28.9
218	7	821	-5	-165	0.0	8.6	36.3	2.8	22.8	30.0	5	1185	28.0	28.8	29.0
219	7	822	-5	-155	0.0	13.2	39.4	2.8	18.3	31.6	5	360	28.1	28.8	29.3
220	7	823	-5	-145	0.0	12.3	37.5	2.8	18.4	29.9	5	298	28.4	27.6	29.1
221	7	824	-5	-135	0.0	12.8	40.0	2.8	19.7	31.0	5	437	26.0	28.2	28.9
222	7	825	-5	-125	0.0	12.9	39.8	2.9	20.6	31.2	5	960	26.9	29.1	29.0
223	7	[illegible]	-5	[illegible]	0.0	12.2	39.8	5.1	20.6	30.5	5	101	27.8	27.8	29.6
224	7	826	-5	-115	0.0	6.9	39.5	4.7	23.6	29.7	5	221	27.4	27.8	28.1

OBS	AREA	TENSQ	LAT	LON	TNNL	TNNH	TNNH	TNTL	TNTH	TNTH	TLNTC	TLNTN	TLNT25	TLNTH	TLNT75
225	4	827	:	-105	0.0	19.9	37.6	2.9	15.4	29.3	5	87	25.4	27.3	28.2
226	7	827	-5	-105	0.0	3.7	39.7	16.7	28.2	30.1	5	573	28.1	28.3	28.6
227	4	828	-5	-95	0.0	19.7	39.6	2.8	16.7	29.9	5	126	26.9	28.1	28.7
228	4	829	-5	-85	0.2	24.0	40.0	6.5	16.5	29.0	5	8	28.0	28.3	28.8
229	4	830	-5	-75	0.0	17.0	39.8	2.8	16.9	29.5	5	81	27.2	28.2	20.7
230	4	831	-5	-65	0.0	15.6	39.1	5.3	16.9	29.9	5	261	25.7	27.5	28.6
231	4	832	-5	-55	0.0	15.4	39.7	5.6	17.2	30.5	5	695	25.9	27.6	28.6
232	4	833	-5	-45	0.0	13.8	39.3	6.0	17.2	29.6	5	531	25.1	26.9	27.9
233	4	834	-5	-35	0.0	9.8	34.5	7.4	17.8	26.1	5	9	23.1	25.2	25.7
234	5	901	-5	-5	0.0	12.9	33.1	1.8	17.2	29.4	5	120	23.2	25.3	27.0
235	5	902	5	5	0.0	14.6	40.0	1.6	17.3	28.9	5	345	23.4	26.4	27.8
236	5	903	5	15	0.1	18.8	39.3	4.4	14.8	29.9	5	37	22.9	28.0	28.3
237	5	904	5	25	0.0	17.9	39.8	4.1	15.7	27.9	5	156	25.8	26.2	26.4
238	5	905	5	35	0.0	15.5	40.0	3.8	16.7	28.9	5	667	26.0	26.6	27.1
239	5	906	5	45	0.0	11.2	40.0	4.2	19.2	29.3	5	1625	26.2	27.1	27.7
240	5	907	5	55	0.0	8.0	40.0	4.1	20.5	29.0	5	709	25.5	26.5	27.1
241	5	908	5	65	0.2	5.7	24.6	2.6	24.8	28.7	5	31	26.1	27.0	28.1
242	5	909	5	75	0.0	7.5	31.4	5.8	21.8	30.0	5	65	26.8	27.6	28.3
243	6	909	5	75	0.0	14.3	34.9	4.7	19.8	29.5	5	462	26.6	27.2	27.9
244	6	910	5	85	0.0	18.6	40.0	4.5	17.4	32.3	5	479	25.3	26.6	27.7
245	6	911	5	95	0.0	21.7	40.0	4.5	14.8	30.5	5	325	24.7	26.1	27.1
246	6	912	5	105	0.0	22.7	39.9	4.5	14.0	29.5	5	163	25.7	26.5	27.2
247	6	913	5	115	0.0	25.6	40.0	4.4	12.6	28.5	5	252	25.9	26.7	27.1
248	6	914	5	125	0.0	13.5	33.8	9.1	15.5	26.8	5	11	25.8	26.5	26.7
249	6	915	5	135	3.6	13.0	33.3	6.0	19.0	26.1	5	23	25.3	25.6	25.8
250	6	916	5	145	0.3	13.8	40.0	2.4	18.2	26.9	5	82	14.0	25.7	26.3
251	6	917	5	155	0.0	12.5	38.8	2.7	19.8	29.0	5	87	26.2	26.6	26.8
252	6	918	5	165	0.0	17.2	39.8	2.9	17.1	29.1	5	19	26.9	28.1	28.8
253	6	919	5	175	0.0	18.2	39.0	2.8	14.8	28.4	5	16	22.3	27.6	28.1
254	6	920	5	-175	0.0	10.9	36.7	4.5	20.6	29.6	5	457	27.1	27.9	28.7
255	7	921	5	-165	0.0	10.0	36.6	4.7	21.3	30.1	5	412	27.6	28.2	28.7
256	7	922	5	-155	0.0	15.9	38.9	2.8	17.1	30.0	5	280	27.9	28.5	29.0
257	7	923	5	-145	0.0	15.0	39.6	2.8	17.8	30.4	5	381	28.0	28.6	29.1
258	7	924	5	-135	0.0	17.6	40.0	2.9	15.6	29.6	5	390	25.7	27.8	28.6
259	7	925	5	-125	0.0	13.4	40.0	4.0	19.0	30.2	5	1239	26.6	27.8	28.6
260	7	926	5	-115	0.0	13.5	40.0	3.8	20.0	30.4	5	450	26.6	27.9	28.8
261	7	927	5	-105	0.0	3.9	39.3	3.8	26.3	30.7	5	652	26.8	27.9	28.7
262	7	928	5	-95	0.0	6.9	39.8	2.8	25.1	30.8	5	1034	27.8	28.1	28.4
263	4	929	5	-85	0.4	30.2	39.3	6.6	14.2	27.9	5	1	27.9	27.9	27.9
264	4	930	5	-75	0.0	18.4	39.8	2.8	18.1	30.5	5	232	27.6	28.2	29.1
265	4	931	5	-65	0.0	16.0	39.8	7.0	18.5	30.1	5	208	26.9	27.9	28.9
266	4	932	5	-55	0.0	16.0	39.7	2.8	17.5	30.2	5	412	25.1	26.0	27.5
267	4	933	5	-45	0.0	15.1	39.3	7.1	17.5	29.3	5	204	24.0	24.7	25.9
268	5	1003	15	15	4.0	27.5	39.5	6.2	13.9	19.4	5	3	18.7	18.7	19.3
269	5	1004	15	25	0.1	23.1	39.5	5.8	13.8	24.6	5	29	21.4	22.4	25.1
270	5	1005	15	35	0.0	9.4	38.5	5.0	18.4	35.6	5	317	22.4	24.1	24.6
271	5	1006	15	45	0.0	17.4	38.6	5.0	14.9	26.6	5	40	23.0	25.1	25.7
272	5	1007	15	55	0.0	10.3	38.0	4.2	18.5	28.3	5	286	24.0	25.9	26.4
273	5	1008	15	65	0.0	5.4	38.8	2.0	21.3	29.5	5	2151	21.6	24.7	26.7
274	5	1009	15	75	0.0	9.8	38.4	2.6	20.1	30.1	5	288	25.5	27.1	28.5
275	5	1010	15	85	0.0	11.6	37.1	2.8	18.8	28.6	5	60	25.8	26.5	27.9
276	6	1010	15	85	0.0	21.4	39.0	7.4	17.5	29.3	5	26	26.3	27.2	28.2
277	6	1011	15	95	0.0	21.3	40.0	4.4	15.6	29.9	5	184	26.3	27.7	28.6
278	6	1012	15	105	0.0	20.6	40.0	4.3	14.6	30.7	5	162	25.8	27.2	28.3
279	6	1013	15	115	0.0	23.1	40.0	4.3	13.0	28.7	5	232	25.1	26.5	27.0
280	6	1014	15	125	0.0	16.3	33.2	8.4	15.7	26.0	5	15	23.2	24.2	25.3

OBS	AREA	TENSQ	LAT	LON	THNL	THNH	THNH	TNTL	TNTM	TNTH	TLNTC	TLNTN	TLNT25	TLNTM	TLNT75
281	6	1016	15	145	0.0	14.5	38.9	2.3	15.4	25.4	5	27	19.0	23.8	24.4
282	6	1017	15	155	0.0	12.9	39.6	5.6	17.3	27.8	5	71	23.2	25.1	25.6
283	6	1018	15	165	0.0	15.7	39.4	5.7	15.0	27.6	5	28	21.5	26.0	26.5
284	6	1019	15	175	0.0	15.1	40.0	5.7	17.1	27.7	5	31	21.7	27.0	27.4
285	6	1020	15	-175	0.1	5.2	37.9	10.6	22.0	29.1	5	48	22.3	25.3	27.7
286	7	1022	15	-155	0.0	14.3	40.0	2.7	16.7	28.3	5	139	23.6	26.5	27.0
287	7	1023	15	-145	0.0	10.4	40.0	3.9	20.6	29.1	5	113	26.5	26.6	27.0
288	7	1024	15	-135	0.0	13.6	40.0	3.4	16.3	29.5	5	677	21.2	25.3	27.4
289	7	1025	15	-125	0.0	11.6	40.0	3.8	19.2	30.6	5	1003	24.8	26.6	28.4
290	7	1026	15	-115	0.0	13.0	40.0	4.3	17.9	30.9	5	416	24.6	27.2	28.5
291	7	1027	15	-105	0.0	1.8	39.7	3.0	25.6	30.5	5	25	27.3	29.0	30.1
292	4	1028	15	-95	0.0	15.9	40.0	6.4	20.4	30.4	5	256	26.8	27.5	28.4
293	4	1029	15	-85	0.1	20.7	40.0	6.2	18.3	30.3	5	144	26.8	27.8	28.6
294	4	1030	15	-75	0.0	18.7	39.7	7.5	18.1	30.5	5	113	27.1	27.1	28.1
295	4	1031	15	-65	0.0	17.6	39.4	7.4	18.3	30.4	5	189	26.0	26.8	27.7
296	4	1032	15	-55	0.0	16.7	40.0	5.6	18.3	30.5	5	396	28.9	25.6	26.8
297	4	1033	15	-45	0.0	16.0	36.0	9.5	19.8	32.6	5	87	25.2	27.0	27.1
298	5	1103	25	15	0.0	10.6	36.0	6.7	14.8	19.3	5	41	16.6	17.7	18.7
299	5	1104	25	25	0.0	10.9	35.4	7.6	16.1	21.6	5	28	18.9	19.5	20.7
300	5	1105	25	35	0.0	7.4	30.5	6.9	17.2	23.8	5	52	18.6	21.6	22.3
301	5	1106	25	45	0.0	1.7	40.0	6.6	23.4	28.4	5	446	22.4	24.0	26.6
302	5	1107	25	55	0.0	9.6	33.7	5.8	16.5	27.6	5	66	19.1	22.0	26.3
303	5	1108	25	65	0.0	10.6	36.0	5.9	16.5	27.6	5	90	18.6	21.8	25.3
304	5	1109	25	75	0.0	5.3	29.3	5.1	18.3	28.4	5	376	18.6	22.5	24.5
305	5	1110	25	85	0.0	7.1	40.0	3.0	17.8	32.0	5	1546	16.5	22.5	26.0
306	6	1111	25	95	0.0	11.6	39.4	4.7	16.5	28.9	5	137	20.8	22.6	25.5
307	6	1112	25	105	0.0	20.5	40.0	4.3	14.5	30.9	5	100	21.1	23.4	26.5
308	6	1113	25	115	0.0	[illegible]	40.0	4.3	14.8	32.0	5	601	15.8	18.1	22.6
309	6	1114	25	125	0.0	[illegible]	38.5	4.2	14.9	23.1	5	58	17.8	18.8	21.0
310	6	1115	25	135	0.0	6.4	40.0	2.0	18.2	[illegible]	5	25	20.3	21.3	25.6
311	6	1116	25	145	0.0	7.7	39.9	2.0	16.2	[illegible]	5	141	18.7	20.4	25.5
312	6	1117	25	155	0.0	6.2	39.8	[illegible]	15.4	[illegible]	5	574	[illegible]	19.1	25.0
313	6	1118	25	165	0.0	9.6	39.8	3.4	15.7	[illegible]	5	97	18.5	21.4	23.4
314	6	1119	25	175	0.0	5.4	39.1	5.7	17.7	27.8	5	35	19.5	21.8	26.6
315	6	1120	25	-175	0.1	5.7	34.1	5.9	19.7	27.4	5	16	19.5	22.3	26.9
316	7	1121	25	-165	0.0	4.4	39.2	4.1	20.6	28.1	5	55	20.2	23.8	25.8
317	7	1122	25	-155	0.0	8.7	39.9	2.4	17.3	29.1	5	275	18.8	24.3	25.5
318	7	1123	25	-145	0.0	7.7	39.3	4.5	19.4	29.6	5	140	19.5	21.3	26.1
319	7	1124	25	-135	0.0	10.3	40.0	2.1	16.8	30.5	5	666	19.1	25.6	24.4
320	7	1125	25	-125	0.0	5.1	40.0	1.3	19.1	29.6	5	2089	18.1	25.8	26.3
321	7	1126	25	-115	0.0	4.6	34.0	4.1	21.6	29.1	5	507	22.3	26.6	27.4
322	4	1128	25	-95	0.0	3.3	32.7	21.2	26.2	29.4	5	134	26.3	26.3	27.4
323	4	1129	25	-85	0.0	4.0	29.7	[illegible]	25.7	31.9	5	245	26.0	[illegible]	26.9
324	4	1131	25	-65	0.0	16.9	39.5	7.8	18.3	28.0	5	124	24.4	26.0	25.8
325	4	1132	25	-55	0.0	17.6	35.0	8.7	18.6	29.8	5	18	24.1	24.7	26.8
326	5	1200	35	-15	0.0	0.8	36.4	1.5	16.2	27.0	5	85	14.1	15.1	15.9
327	5	1201	35	-5	0.0	1.5	35.0	1.4	14.9	25.1	5	65	14.4	14.6	16.3
328	5	1202	35	5	0.0	5.6	26.7	1.7	15.0	25.2	5	133	14.4	15.6	18.8
329	5	1203	35	15	0.2	8.8	26.7	9.7	14.1	31.6	5	40	15.8	17.4	22.1
330	5	1204	35	25	0.0	8.2	22.7	8.6	15.4	22.4	5	31	16.1	18.5	22.6
331	5	1205	35	35	0.0	4.6	22.9	8.2	17.4	24.9	5	43	16.1	19.6	19.7
332	5	1206	35	45	0.0	6.9	32.4	5.9	15.7	26.7	5	58	17.6	18.0	21.6
333	5	1207	35	55	0.1	8.0	38.0	5.9	16.0	27.3	5	52	17.6	18.4	21.8
334	5	1208	35	65	0.0	6.1	34.6	1.7	17.0	28.5	5	2389	17.9	18.9	[illegible]
335	5	1209	35	75	0.0	5.7	37.4	0.5	15.9	29.4	5	3935	17.5	20.9	24.7
336	5	1210	35	85	0.0	1.8	31.9	1.7	23.7	30.1	5	626	21.9	27.4	28.2

OBS	AREA	TENSQ	LAT	LON	TNNL	TNNH	TNNH	TNTL	TNTH	TNTH	TLNTC	TLNTN	TLNT25	TLNTM	TLNT75
337	6	1213	35	115	0.0	13.8	39.8	5.1	12.4	29.5	5	55	13.6	14.4	14.9
338	6	1214	35	125	0.0	16.8	40.0	1.0	10.1	18.5	5	582	12.0	13.0	14.2
339	6	1215	35	135	0.0	8.5	40.0	3.3	12.9	22.6	5	89	12.5	14.8	18.0
340	6	1216	35	145	0.0	8.7	40.0	1.3	12.6	22.9	5	88	13.7	15.1	17.5
341	6	1217	35	155	0.0	2.6	38.6	2.1	11.6	23.4	5	158	8.8	12.5	15.6
342	6	1218	35	165	0.0	11.3	39.0	1.2	12.0	26.3	5	87	13.6	15.1	17.8
343	6	1219	35	175	0.0	6.7	38.6	1.9	13.7	24.8	5	69	13.7	15.9	16.9
344	6	1220	35	-175	0.4	10.3	32.0	5.4	15.6	23.5	5	8	21.2	21.7	22.4
345	7	1221	35	-165	0.0	10.1	38.6	3.2	14.2	27.6	5	83	16.9	19.7	21.0
346	7	1222	35	-155	0.0	10.4	39.4	1.3	13.4	24.6	5	216	15.8	17.2	19.5
347	7	1223	35	-145	0.0	11.3	40.0	0.3	12.5	28.3	5	633	16.2	18.4	20.7
348	11	1224	35	-135	0.0	8.8	40.0	0.1	15.4	29.4	5	1991	18.0	20.3	23.2
349	5	1225	35	-125	0.0	3.5	22.0	1.3	15.7	29.4	5	102	11.1	18.0	22.2
350	5	1234	45	-35	0.0	0.4	1.3	15.0	18.7	28.8	5	15	16.3	17.5	18.9
351	5	1235	45	-25	0.0	0.4	10.0	10.6	17.4	25.4	5	18	14.4	16.3	19.7
352	5	1300	45	-15	0.0	1.8	28.8	0.8	14.6	25.0	5	166	2.5	18.6	21.7
353	5	1301	45	-5	0.1	0.2	0.3	14.8	19.6	25.7	5	9	15.4	16.7	24.5
354	5	1302	45	5	0.0	7.4	19.7	1.4	11.4	17.7	5	29	11.4	13.3	14.9
355	5	1303	45	15	0.1	6.8	19.3	1.6	12.4	17.0	5	19	12.0	14.5	16.4
356	5	1304	45	25	0.1	8.2	21.4	5.2	12.2	17.6	5	10	9.6	13.1	16.0
357	5	1305	45	35	0.1	2.4	10.1	4.6	12.9	17.3	5	23	12.0	13.9	16.3
358	5	1306	45	45	0.0	8.1	38.0	0.0	11.1	24.1	5	25	6.1	14.3	17.4
359	5	1307	45	55	0.2	8.9	33.8	4.7	15.1	25.2	5	18	11.8	9.1	16.0
360	5	1308	45	65	0.0	8.3	37.9	-0.2	7.3	27.6	5	2119	5.0	9.3	13.4
361	6	1309	45	75	0.0	3.4	36.7	0.0	8.0	24.0	5	2435	3.3	7.7	13.2
362	6	1314	45	125	0.0	11.2	40.0	0.8	9.6	18.6	5	10363	8.9	10.5	13.5
363	6	1315	45	135	0.0	13.4	40.0	0.5	8.2	17.7	5	511	9.6	11.8	14.2
364	6	1316	45	145	0.0	16.3	40.0	0.3	6.5	14.6	5	49	9.9	10.3	12.0
365	6	1317	45	155	0.2	5.3	39.8	2.9	7.1	15.5	5	186	4.3	6.4	9.0
366	6	1318	45	165	0.6	12.3	39.9	0.4	6.0	12.9	5	53	4.4	6.8	8.9
367	6	1319	45	175	1.0	16.1	40.0	0.3	6.4	17.6	5	24	4.0	4.5	13.3
368	7	1320	45	-175	0.2	16.4	39.2	0.3	4.9	13.2	5	45	4.4	4.7	8.0
369	7	1321	45	-165	0.9	17.8	39.0	0.3	4.0	23.6	5	49	2.6	3.4	5.0
370	7	1322	45	-155	0.0	19.5	40.0	-1.5	3.8	20.5	5	188	1.7	3.6	8.2
371	7	1323	45	-145	0.0	16.4	40.0	-1.4	6.8	23.9	5	645	9.5	14.1	17.6
372	7	1324	45	-135	0.0	11.7	26.8	0.1	4.0	23.0	5	108	4.6	12.3	14.7
373	9	1335	45	-125	0.0	0.6	9.5	11.5	15.7	18.7	5	26	13.3	16.3	18.2
374	9	1400	55	-15	0.0	4.9	19.3	2.6	8.1	18.0	5	475	6.9	9.2	12.0
375	8	1401	55	-5	0.0	3.6	32.0	-0.7	6.4	17.6	5	144	4.4	7.5	8.3
376	8	1402	55	5	0.0	4.2	15.1	1.3	8.0	14.2	5	40	7.5	8.2	10.4
377	5	1403	55	15	6.2	13.6	13.1	2.3	9.2	10.5	5				
378	5	1404	55	25	0.7	13.6	33.6	5.3	8.5	11.7	5	2	10.3	11.0	11.7
379	5	1405	55	35	2.9	12.5	36.1	3.3	7.6	11.6	5	14	9.7	10.5	10.9
380	5	1406	55	45	0.0	9.4	36.2	-1.3	4.8	34.5	5	161	3.0	4.0	9.7
381	5	1407	55	55	0.0	8.4	22.3	-1.6	2.9	8.9	5	202	0.7	3.5	5.1
382	5	1408	55	65	0.0	5.9	16.2	-0.9	1.6	4.9	5	27	0.3	4.0	3.3
383	6	1414	55	125	4.5	19.6	34.0	3.9	9.1	12.4	5	2	12.3	12.3	12.4
384	6	1415	55	135	0.0	16.0	39.9	0.6	5.2	15.3	5	352	4.6	6.1	8.6
385	6	1416	55	145	0.0	17.5	40.0	0.7	5.8	13.9	5	83	8.8	10.0	11.3
386	6	1417	55	155	0.0	7.0	39.8	-2.9	5.3	13.4	5	548	3.7	6.7	8.2
387	6	1418	55	165	0.0	9.4	39.9	-4.6	4.6	18.0	5	1331	3.4	5.8	8.1
388	6	1419	55	175	0.0	18.3	40.0	-1.7	3.2	9.9	5	12	3.9	4.3	5.5
389	6	1420	55	-175	1.4	14.6	36.5	-2.1	3.8	8.5	5	30	3.7	3.3	3.7
390	7	1421	55	-165	0.4	13.9	39.0	-0.7	4.0	11.6	5	57	1.8	3.2	3.7
391	10	1500	65	-15	4.1	8.0	14.3	-2.9	4.5	6.9	5	1	4.6	4.6	4.6
392	10	1501	65	-5	0.0	1.1	3.0	-0.8	6.7	15.1	5	325	5.4	6.9	7.6

OBS	AREA	TENSQ	LAT	LON	TNNL	TNNH	THNH	TNTL	TNTH	TNTH	TLNTC	TLNTN	TLNT25	TLNTM	TLNT75
393	10	1502	45	5	0.0	3.2	15.5	-2.5	3.8	17.3	5	449	0.5	3.6	7.7
394	10	1503	45	15	0.0	3.9	21.6	-1.8	2.5	11.4	5	680	0.0	2.8	5.9
395	10	1504	45	25	0.0	7.4	55.7	-4.9	4.9	22.3	5	865	5.5	6.5	9.9
396	10	1505	45	35	0.2	12.2	28.6	-1.2	5.6	11.6	5	28	6.0	7.7	11.1
397	10	1506	45	45	0.0	5.7	23.2	-1.0	5.7	7.8	5	47	0.2	0.9	2.0
398	10	1507	45	55	0.0	6.5	19.6	-1.7	2.0	8.4	5	206	-0.2	0.5	3.1
399	10	1508	45	65	0.0	5.4	18.3	-1.8	0.5	8.4	5	418	-0.6	0.4	1.4
400	10	1510	45	85	7.1	10.2	15.4	-1.7	0.7	9.0	5				
401	10	1511	45	95	1.9	4.7	10.0	-1.1	3.3	8.5	5	4	2.2	2.7	5.6
402	10	1512	45	105	1.9	8.0	38.0	-1.5	-0.8	-0.1	5	15	-1.0	-0.7	-0.8
403	10	1515	45	135	0.1	2.9	9.5	0.1	4.0	11.3	5	9	0.1	0.2	11.2
404	6	1516	45	145	0.0	12.9	29.5	0.4	4.1	11.8	5	339	2.3	4.1	9.0
405	6	1517	45	155	2.6	11.7	19.6	4.3	5.5	8.5	5	22	6.8	6.9	7.8
406	6	1518	45	165	0.0	4.6	23.2	-1.9	2.6	12.2	5	507	1.9	3.2	5.3
407	10	1518	45	165	0.0	1.5	17.5	-1.7	2.9	8.8	5	223	1.6	3.9	4.4
408	6	1519	45	175	0.0	10.7	35.2	-1.8	1.2	8.6	5	168	1.0	2.2	7.3
409	10	1519	45	175	0.0	3.1	14.1	-1.8	2.5	7.8	5	158	0.9	4.9	5.1
410	6	1520	45	-175	0.1	3.4	14.5	-1.6	2.2	5.9	5	6	3.5	5.9	5.9
411	10	1520	45	-175	0.0	2.9	14.7	-2.2	-1.2	0.9	5	65	-1.8	-1.6	-1.0
412	10	1521	45	-165	0.6	2.8	5.8	-1.4	-0.8	0.2	5	4	-1.1	-0.5	-0.0
413	9	1535	45	-125	0.0	0.7	5.3	1.4	10.0	15.4	5	42	1.1	19.3	14.9
414	10	1600	35	-115	0.0	2.6	10.7	0.2	3.6	9.7	5	67	2.1	3.3	4.5
415	10	1601	35	-5	0.0	4.3	6.4	0.4	4.5	8.0	5	4	4.6	6.9	8.0
416	10	1602	35	5	0.0	3.1	19.9	-4.9	3.4	9.4	5	137	0.4	3.4	5.7
417	10	1603	35	15	0.0	0.9	3.6	-1.7	0.6	5.0	5	183	-0.5	0.6	1.4
418	10	1608	35	65	0.0	7.4	26.9	-1.7	-0.1	6.1	5	64	-1.2	-0.2	1.5
419	10	1609	35	75	0.0	7.5	18.2	-1.6	-0.2	5.9	5	318	-0.9	-0.2	6.1
420	10	1610	35	85	4.1	8.8	12.0	-1.8	-1.7	-1.0	5	3	-1.8	-1.8	-1.2
421	10	1611	35	95	0.0	6.2	12.9	-1.6	-0.9	2.5	5	21	-1.1	-0.8	0.4
422	10	1615	35	135	0.0	4.3	10.1	-1.7	-0.3	3.6	5	16	-1.5	-0.3	1.1
423	10	1616	35	145	0.0	5.0	26.9	-1.8	-0.4	6.4	5	493	-1.3	-0.9	-0.1
424	10	1617	35	155	0.0	4.2	22.8	-2.2	0.5	7.4	5	378	-1.2	0.2	2.5
425	10	1618	35	165	0.0	2.9	18.7	-1.8	0.8	7.1	5	149	-0.1	1.1	2.5
426	10	1619	35	175	0.0	4.1	13.6	-1.8	0.1	7.9	5	39	-1.6	-0.8	4.0
427	10	1620	35	-175	0.0	1.4	12.5	-1.7	-0.6	1.4	5	261	-1.4	-0.6	0.1
428	10	1621	35	-165	0.0	1.0	12.7	-1.7	-0.9	0.3	5	100	-1.4	-0.9	-0.3
429	10	1622	35	-155	0.7	3.5	10.5	-1.8	-1.6	-1.3	5	28	-1.6	-1.6	-1.5
430	10	1624	35	-135	1.0	6.1	10.2	-1.8	-1.5	-1.1	5	27	-1.6	-1.5	-1.4
431	10	1625	35	-125	0.0	4.6	9.7	-1.8	-1.7	-0.7	5	124	-1.8	-1.7	-1.7
432	10	1626	35	-115	0.3	2.0	4.0	-1.8	-1.6	-1.4	5	62	-1.7	-1.7	-1.6
433	10	1633	35	-45	0.3	5.1	7.1	-0.7	1.0	3.2	5	6	2.5	2.9	2.0
434	10	1634	35	-35	0.0	5.5	14.1	-1.7	3.3	9.7	5	152	5.8	3.9	5.3
435	10	1635	35	-25	0.0	3.9	8.6	-1.5	5.0	10.7	5	122	3.7	2.5	6.6
436	10	1700	45	-15	0.2	3.0	5.3	0.4	3.1	5.0	5	17	2.3	0.1	0.3
437	10	1701	45	65	0.0	5.9	13.2	-1.7	-0.2	4.7	5	27	-1.5	-0.4	0.6
438	10	1710	45	85	0.0	8.8	15.5	-1.8	-1.5	0.5	5	170	-1.7	-1.7	-1.6
439	10	1711	45	95	0.6	6.6	15.2	-1.3	-1.5	-1.1	5	9	-1.7	-1.6	-1.6
440	10	1712	45	105	0.0	9.9	21.0	-1.7	-1.0	0.4	5	100	-1.7	-1.9	-1.6
441	10	1714	45	125	1.1	11.4	18.8	-1.7	-0.9	0.5	5	9	-1.7	-1.7	-1.6
442	10	1715	45	135	0.5	3.0	9.8	-1.7	-1.6	-1.3	5	5	-1.7	-1.9	-1.6
443	10	1717	45	155	0.9	11.7	17.3	-1.7	-0.7	0.5	5	13	-1.7	-1.7	-1.7