REVISED PERTURBATION STATISTICS FOR THE GLOBAL SCALE ATMOSPHERIC MODEL

by

C.G. Justus and Arthur Woodrum

FINAL REPORT

for

NASA George C. Marshall Space Flight Center
Marshall Space Flight Center, Alabama 35812

Contract NAS8-30657

JANUARY, 1975

1975

School of Aerospace Engineering
Georgia Institute of Technology
Atlanta, Georgia 30332

REVISED PERTURBATION STATISTICS FOR THE GLOBAL SCALE ATMOSPHERIC MODEL

by

C. G. Justus and Arthur Woodrum
School of Aerospace Engineering
Georgia Institute of Technology
Atlanta, Georgia 30332

FINAL REPORT

for

NASA George C. Marshall Space Flight Center
Marshall Space Flight Center, Alabama 35812

Contract NAS8-30657

January, 1975

TABLE OF CONTENTS

Acknowledgments

This report was prepared by the School of Aerospace Engineering, Georgia Institute of Technology under NASA contract number NAS8-30657, "Research Study on Neutral Thermodynamic Atmospheric Model" for George C. Marshall Space Flight Center of the National Aeronautics and Space Administration. The work was administered under the Aero-Astrodynamics Laboratory, Aerospace Environment Division of the George C. Marshall Space Flight Center with O. E. Smith, head of the Terrestrial Environment Branch, as project monitor.

The authors extend special thanks to Dr. C. E. Buell of Kaman Sciences Corporation, who provided us with a copy of his statistical adjustment program, and who offered helpful suggestions on its application to the PROFILE program.

Abstract

Magnitudes and scales of atmospheric perturbations about the monthly mean for the thermodynamic variables and wind components are presented by month at various latitudes. These perturbation statistics are a revision of the random perturbation data required for the global scale atmospheric model program (PROFILE) previously reported in NASA-TMX-64871 and NASA-TMX-64872. The revised perturbation statistics were evaluated from Meteorological Rocket Network statistical summaries in the 22 to 65 km height range and NASA grenade and pitot tube data summaries in the region up to 90 km. The observed perturbations in the thermodynamic variables were adjusted to make them consistent with constraints required by the perfect gas law and the hydrostatic equation. Vertical scales were evaluated by Buell's depth of pressure system equation and from vertical structure function analysis. Horizontal scales were also studied by the structure function technique. Tables of magnitudes and vertical scales are presented for each month at latitude 10°, 30°, 50°, 70°, and 90°. A revised listing of the data tape "SCIDAT", now called "SCIDAT-MOD-1" is also presented.

1. INTRODUCTION

In response to needs for empirical model atmospheres of wider scope and application Georgia Tech recently developed, under NASA sponsorship, a global reference atmosphere model (called PROFILE) with latitude, longitude, and monthly variations over a height range from 0 to 700 km (Justus, et al., 1974 a,b) hereafter referred to as the PROFILE reports.

Description of the Basic Model

The Georgia Tech computer model, called PROFILE, is an amalgamation of two previously existing empirical atmospheric models for the low (< 25 km) and high (> 90 km) atmosphere, with a newly developed latitude-longitude dependent model for the middle atmosphere. The high atmospheric region above 115 km is simulated entirely by the Jacchia (1970) model. The Jacchia program sections are in separate subroutines so that later Jacchia models (Jacchia, 1971) or other thermospheric-exospheric models could easily be adapted and substituted into the PROFILE program if required for special applications. The atmospheric region between 25 km and 115 km is simulated by a newly developed latitude-longitude dependent empirical model modification of the latitude dependent empirical model developed by Groves (1971), which is described more fully later in this report. Between 90 km and 115 km a smooth transition between the modified Groves values and the Jacchia values is accomplished by a fairing technique. Below 25 km the atmospheric parameters are computed by a 4-D world-wide atmospheric model

developed for NASA by Allied Research Associates (Spiegler and Fowler, 1972). Between 25 and 30 km an interpolation scheme is used between the 4-D results and the modified Groves values. Figure 1.1 presents a schematic summary of the PROFILE program atmospheric regions and how they are modeled.

The modifications to Groves model to produce longitude as well as latitude variations in the monthly mean were accomplished in two steps. First upper air summary map data for monthly means at the 10 mb level for 1966 and 1967 (NOAA, 1969b) and the 2 and 0.4 mb levels for 1966, 1967, and 1968 (NOAA, 1969a, 1970, 1971) were read and converted to values for the 30, 40, and 52 km levels. The upper air map values at the 2 and 0.4 mb levels were extended around the entire northern hemisphere by subjective extrapolation. Next the 30, 40, and 52 km latitude-longitude dependent values were extrapolated to 90 km by an extrapolation scheme developed by Graves, (1973). All of the map generated and extrapolated data were converted to percent deviation from the longitudinal mean and these are applied as deviations (called stationary perturbations) to the Groves model values, which are taken as the latitude dependent longitudinal means.

The seasonal variations in the middle atmosphere (25-115 km) are assumed to be the same in northern and southern hemispheres with a six months phase lag. That is, the southern hemisphere July is the same as the northern hemisphere January. In the 4-D region ($\leq$ 25 km) separate global coverage data values are available for each of the twelve months. A set of annual reference period data are also available for the 4-D and modified Groves regions. If the annual reference period is selected,

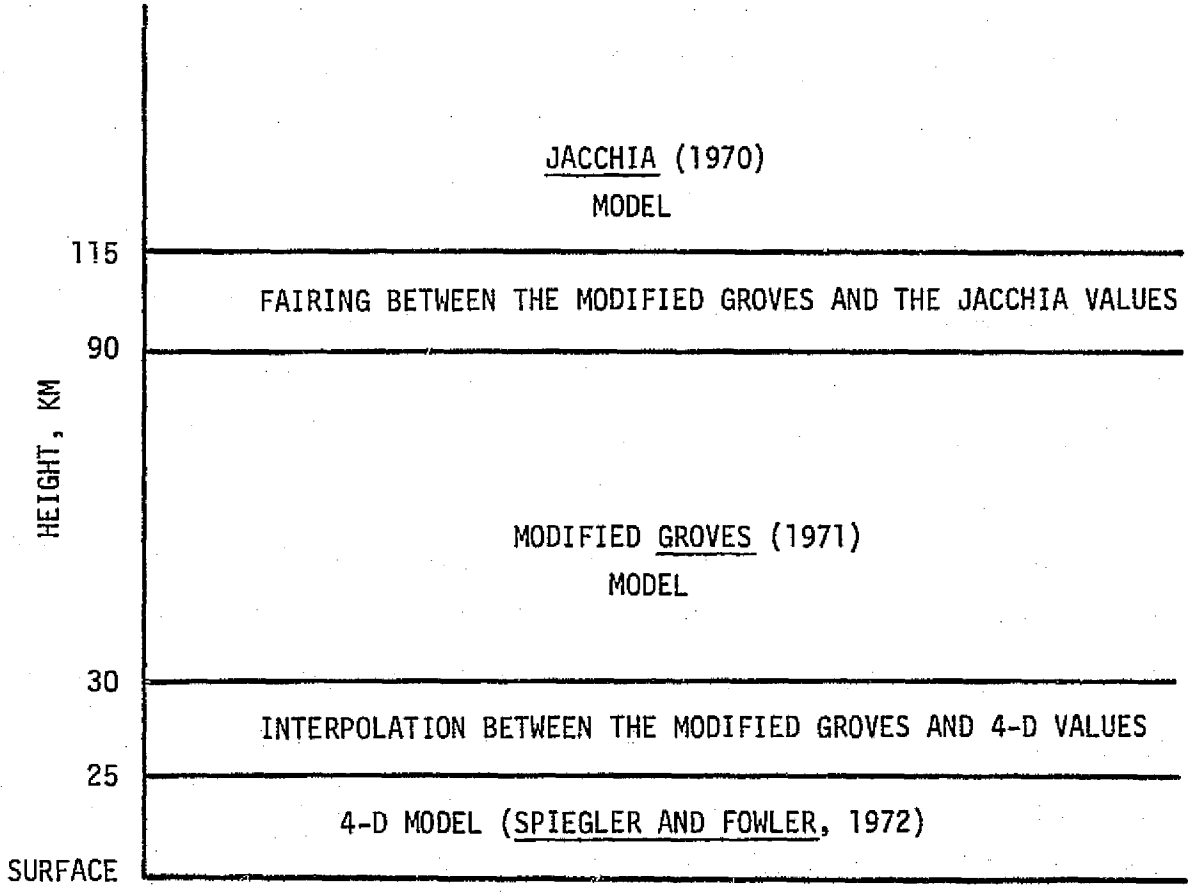

Figure 1.1 Schematic summary of the atmospheric regions in the PROFILE program and the simulation methods used for mean monthly values in each region

the Jacchia section sets the exospheric temperature to 1000°K to represent annual mean conditions.

The monthly mean geostrophic winds are computed from horizontal pressure gradients, estimated by finite differences. Wind shear in the monthly mean wind is estimated from horizontal temperature gradients, similarly determined. These parameters serve as a consistency check on the pressure and temperature fields of the empirical model.

In addition to the monthly mean values of pressure, density and temperature, two types of perturbations are evaluated: quasi-biennial (QBO) and random. The QBO oscillations in pressure, density, temperature, and winds, empirically determined to be represented by an 870 day period sinusoidal variation, have amplitudes and phases which vary with height and latitude. The QBO amplitudes are primarily significant at low altitudes ($\approx$ 20 - 40 km) at equatorial latitudes and at higher altitudes (50 - 60 km) at high latitudes.

Need for Improved Variation Statistics in the Model

The PROFILE program evaluates monthly mean values of pressure, density, temperature and winds as described above. For realistic simulation of actual atmospheric parameter values as they would likely be at any given time, random perturbations are computed and applied as perturbations to these monthly mean values. The random perturbations are evaluated by a simulation technique which uses empirical values of variation magnitudes and scales to generate random perturbations which have realistic space and time correlations.

Although adequate for many applications, the set of empirical

variation magnitude and scale data required revision because of four limitations, as pointed out in the original PROFILE reports.

1) Above 25 km the data sources for thermodynamic variable variations (σ_p, σ_ρ, and σ_T) tabulated observed values of only σ_ρ and σ_T. Values of σ_p were inferred from equations of Buell (1970) which must result from restrictions on σ_p, σ_ρ, and σ_T imposed by the perfect gas law.

2) In computing the σ_p values above 25 km by the Buell equation, values for the correlation $r_{\rho T}$ between density and temperature perturbations are required. Because of lack of worldwide data for this parameter, correlation values for $r_{\rho T}$ obtained at Kennedy Space Center were used for all σ_p calculations.

3) Although values of σ_p, σ_ρ, and σ_T below 25 km were available on the 4-D data tapes, these values were not always consistent with the Buell perfect gas law relation. When an inconsistency was encountered a correlation value in the valid range $-1 < r_{\rho T} < 1$ had to be used to evaluate σ_p from σ_ρ and σ_T. Again the Kennedy data for $\sigma_{\rho T}$ were used for this purpose.

4) Empirical random wind magnitudes were readily available only for the zonal wind component.

In order to expedite development and checkout, and to allow applications of the PROFILE program to begin, these limitations in the random variation statistics were tolerated while plans were formulated for improving them. An improved data base of observed atmospheric variation statistics, and a concerted effort at interpolating these data to the required PROFILE model gridding

now make possible the PROFILE program and data tape updates described in this report. Moreover, the variation statistics have been completely adjusted by a technique of Buell (1972b) which insures that the σ_p, σ_ρ, and σ_T values conform to the constraints of both the perfect gas law and the hydrostatic equilibrium equation.

The following section gives background information on the improved data base of atmospheric variation statistics, a description of Buell's adjustment technique for perturbation magnitudes, and methods used to estimate horizontal and vertical scales of the random variations. The third and fourth sections describe the actual procedures used and results obtained for perturbation magnitudes and scales. Two appendices give tables of results.

2. BACKGROUND

The Improved Data Base of Atmospheric Variation Statistics

Since completion of the original PROFILE program two new sources of atmospheric variation statistical data have been obtained: 1961-1968 Meteorological Rocket Network (MRN) statistical data for thermodynamic parameters and winds over heights 22 to 64 km were keypunched from tabulations in the MRN reports, and 1969-1972 MRN statistical data (on the "SUMS" tape) were obtained from the NOAA National Climatic Center at Asheville, N. C. These data, together with atmospheric variation summaries at upper levels (Theon et al., 1972) and at lower levels (Oort and Rasmusson, 1971) constitute the data base for the current revisions in the random perturbation magnitudes. MRN data profiles from 1969-1971 were added to the 1964-1968 data already on hand and were used for the vertical and horizontal scale analysis, along with results previously reported (Justus and Woodrum, 1973).

The 1961-1968 MRN statistical data were listed in the form of means, standard deviations, and number of data. The 1969-1972 MRN statistics on the "SUMS" tape were in the form of sums of values, sums of squares of values, and number in the sum. For each parameter the means and standard deviations from the 1961-1968 period were converted to sums of values and sums of squares of values and added to the corresponding sums for the 1969-1972 period. Means and standard deviations for the period 1961-1972 were then computed from the combined sums.

The original data for thermodynamical variations between 65 and 90 km were taken from Youngblood (1972), whose results were based heavily on data of Theon et al., (1972) and Cole (1970). Youngblood's results were expressed as extreme values (1% and 99% occurrence), but standard deviations are more desirable for the random perturbation model in the PROFILE program. Therefore, for thermodynamic parameters and winds between 65 and 90 km the original statistical data of Theon et al., (1972), which was in standard deviation form was used in this report.

The atmospheric statistical summary data of Oort and Rasmusson (1971) were used for random wind magnitudes below 25 km height. For thermodynamic parameters below 25 km the statistics on the 4-D data tapes are still employed. Above 90 km all random parameters were taken to be the same as in the original PROFILE model, except that a revised correlation parameter $r_{\rho T}$ was used based on the results of the correlation studies conducted for this report.

The Adjustment Technique for the Statistical Parameters

There are certain constraints which are placed on the thermodynamic variation statistics as a result of the perfect gas law (Buell, 1970) and the equation of hydrostatic equilibrium (Buell, 1972b). As Buell has shown, these relations can be conveniently expressed in terms of the coefficients of variation ($V_p = \sigma_p/\bar{p}$, $V_\rho = \sigma_\rho/\bar{\rho}$, $V_T = \sigma_T/\bar{T}$) and the correlation coefficients (r_{pT}, $r_{\rho T}$, $r_{p\rho}$). The Buell equations for the perfect gas law constraint are:

$$r_{pT} = (V_p^2 - V_\rho^2 + V_T^2)/(2V_pV_T) \qquad (2.1)$$

$$r_{\rho T} = (V_p^2 - V_\rho^2 - V_T^2)/(2V_\rho V_T) \qquad (2.2)$$

$$r_{p\rho} = (V_p^2 + V_\rho^2 - V_T^2)/(2V_pV_\rho) \qquad (2.3)$$

which express the law of cosines for a triangle whose sides are V_p, V_ρ, and V_T and whose interior angles are arc cosines of the correlation coefficients. The Buell equation for the hydrostatic equilibrium constraint is

$$H_p \partial V_p^{\,2}/\partial z = V_p^{\,2} - V_\rho^{\,2} + V_T^{\,2} \qquad (2.4)$$

where H_p is the pressure scale height $H_p = R\bar{T}/g$. Buell (1972b) described a method for numerically integrating equation (2.4) to obtain adjusted values of V_p, V_ρ, and V_T which satisfy the constraint relationship from a set of original coefficients of variation which do not satisfy this constraint.

For the present study a copy of Buell's adjustment program ADJMRN was obtained from him for adaption and application to the statistics being examined. Buell's program uses the finite difference adjustment procedure described in his 1972 article to evaluate adjusted coefficients of variation which will satisfy the hydrostatic constraint.

The program then locates all heights at which the triangle relationships required by the perfect gas law would be violated and adjusts values at these heights to satisfy this additional constraint. The triangle adjustments would, by themselves, upset the hydrostatic adjustment, but a few iterations of application of each of the constraint conditions separately yields a final set of parameters which satisfy both constraints.

The Depth of Pressure Systems

In addition to the coefficients of variation and correlation coefficients, the Buell program also evaluates a vertical scale parameter (Buell, 1972b) called the depth of pressure systems. Buell's equation for this vertical scale parameter is

$$D = H_p \, V_p / [V_T \, (1 - r_{pT}^2)^{\frac{1}{2}}] \qquad (2.5)$$

One phase of the current investigation involved evaluation of Buell's depth of pressure systems and comparison of these values with vertical scales inferred from vertical structure function analysis (Justus and Woodrum, 1972).

Vertical Structure Function Scales

A description and physical interpretation of vertical and horizontal structure functions have been given by Justus and Woodrum (1973). The purpose of calculating the vertical structure functions for this analysis is to use the results to give an estimate of the "dominant" vertical scale of the random perturbations of the winds and thermodynamic variables from their monthly mean values.

Data. Profiles of winds, temperature, pressure, density and their statistical means were obtained from Meteorological Rocket Network Data for the years 1969 through 1971 for the sites listed in Table 4.1 in Section 4. These data covered mainly the height range from 25 to 65 kilometers.

Higher altitude data were obtained from the grenade data of Smith, et. al., (1964 through 1974) for the sites shown in Table 4.2. The monthly mean profiles associated with these data were calculated from the atmospheric model computer program of Justus, Woodrum, and Roper (1974a,b).

Analysis. Profiles of residual winds, temperature, pressure, and density were obtained by separating the raw data according to months and subtracting the corresponding monthly mean from the raw data. The vertical structure functions of the residual profiles were calculated, then, for each data site.

As discussed in Justus and Woodrum (1973) the vertical structure function $D(\zeta)$ for an essentially random process should follow the relationship

$$D(\zeta) = 2\,\sigma^2\,[1 - \rho(\zeta)] \qquad (2.6)$$

where ζ is the vertical displacement, σ is the rms magnitude of the random variable, and $\rho(\zeta)$ is its vertical auto-correlation function. After increasing with ζ out to displacement values corresponding to the integral scale of the correlation function, the structure function will level off at a value near $2\sigma^2$. Thus the displacement at which $D(\zeta)$ approaches a level phase can be used as an estimate of the dominant

vertical scales of the perturbations about the monthly means.

The vertical structure functions of the MRN data were divided into two height groups of 25 to 45 km and 45 to 65 km. The structure functions for the higher altitude data were for heights of 55 to 90 km.

Horizontal Structure Function Scales

The horizontal structure functions were calculated to obtain an estimate of the "dominant" horizontal scale of the perturbations of the wind and thermodynamic variables about their monthly mean values.

Data. In many cases, profiles of the wind and thermodynamic variables were obtained at the same time of day (actually within an hour of each other) at two or more of the sites listed in Table 4.1. This situation allows one to calculate a horizontal structure function provided the variability of the site separation is sufficient. The present data allowed for the site separation to vary from about 1400 km to 11300 km.

Analysis. Again, deviations from the monthly means were evaluated and the mean square differences of these deviations were evaluated by differencing values at corresponding heights for the pairs of profiles at common times of launch. The set of all such mean square differences, when plotted versus station separation r, forms a horizontal structure function D(r). In general it was found that the calculated structure function was already in level phase at r = 1400 km which indicated that the function must peak for a site separation value less than 1400 km. These results are not inconsistent with the horizontal scales already estimated (Justus, et. al., 1974a,b) and used in the PROFILE program (see Figure 4.4 in Section 4).

3. VARIATION STATISTICS

Thermodynamic Variable Perturbation Magnitudes

In order to be used in the PROFILE program the variation statistics must be evaluated for each month at 10°, 30°, 50°, 70°, and 90° north latitude. The program assumes no variation with longitude and southern hemisphere values are considered to be northern hemisphere values displaced by six months. The evaluation of the variation statistics was carried out in three steps: 1) latitude interpolation for the MRN and grenade-pitot tube data to the desired 20° intervals, including extrapolation over the pole for the 90° values, 2) merging of the MRN and upper altitude data into a single set covering the 22 - 90 km height interval, 3) operating on the interpolated and merged data with the Buell adjustment program to produce adjusted values of the variation magnitudes with values at 5 km height intervals being output in a form ready to be put onto the PROFILE program SCIDAT data tape.

MRN statistical data were available from the SUMS data tape and/or MRN data summary books at the sites listed in Table 3.1. These data covered an altitude range from 22 to 64 km for each of the 12 months. Data from the site groups shown between the horizontal lines in Table 3.1 were used for interpolation to the desired latitudes of 10°, 30°, 50°, or 70°. Some site data were combined when two or more sites were on one side of the desired interpolation latitude. For these combined data, an average site latitude was used, as shown in Table 3.1. After

Table 3.1 - MRN Statistical Data Sites

Site	Latitude (deg N)	Average Latitude	Interpolation Latitude
Ascension	8.0*	8.7	10
Kwajalein	8.7		
Ft. Sherman	9.3		
Antigua	17.2	19.6	
Barking Sands	22.0		
Kennedy SFC	28.5	28.5	30
White Sands	32.4	33.2	
Pt. Mugu	34.1		
Wallops	37.8	37.8	50
Ft. Churchill	58.7	58.7	
Ft. Greely	64.0	64.0	70
Thule	76.6	76.6	

* Ascension data (8°S) displaced by six months is considered same as 8°N.

the preliminary combination of data, a linear interpolation on the relative variance was performed. The relative variances are the square of the coefficients of variation. As was pointed out by Buell (private communication), his adjustment equations are essentially linear in these relative variances, and therefore linear interpolation on the relative variances will tend to preserve the perfect gas law and hydrostatic constraint properties. Hence, all interpolations of the statistics are done as linear interpolations on the relative variances. For example, for interpolation to latitude φ of the coefficient of variation for temperature V_T when the coefficients of variation V_{T_1} and V_{T_2} are known at latitudes φ_1 and φ_2 (where $\varphi_1 < \varphi < \varphi_2$) the interpolation relation would be

$$V_T^2 = V_{T_1}^2 + (V_{T_2}^2 - V_{T_1}^2)(\varphi - \varphi_1)/(\varphi_2 - \varphi_1) \qquad (3.1)$$

The upper altitude data from Theon et. al., (1972) were available from the sites listed in Table 3.2. These data covered an altitude range from 25 to 90 km for each season. Summer values were assumed to be for the month of July, winter values for January, and spring/fall values for April and October (same for both months). Values for months in between these were calculated by assuming a sinusoidal variation between each equinoctal period. Thus the coefficient of variation for temperature for month m, $V_T(m)$, is evaluated from the known values at equinox $V_T(e)$ and soltice $V_T(s)$ by the relation

$$V_T^2(m) = V_T^2(e) + V_T^2(s) \cos [(m - m_e)\, \pi/6] \qquad (3.2)$$

Table 3.2 Upper Level Statistical Sites

Site	Latitude (deg N)	Interpolation Latitude
Natal-Ascension	7.0	
	←	10
	←	30
Wallops	37.8	
	←	50
Churchill	58.7	
	←	70
Barrow	71.4	

where m_e is the month of the equinox (either April or October). After filling in the data for the missing months, the upper level data were interpolated to the desired latitudes via equation (3.1), where the linear interpolation was between the sites as listed in Table 3.2.

For both MRN and upper level data values at 90° latitude were computed by the over-the-pole parabolic interpolation formula described in the original PROFILE reports. The 90° latitude data were computed from the 50° and 70° data by the relation

$$V_{90}^2 = (4V_{70}^2 - V_{50}^2)/3 \qquad (3.3)$$

where V represents the coefficient of variation of any of the parameters to be interpolated.

After the MRN and upper level data were separately interpolated to 10°, 30°, 50°, 70°, and 90°, these data were merged to form a single set of data at these latitudes. The merged data covered the altitude range from 22 to 90 km for each month. The Buell adjustment program was used on these merged data to produce the set of adjusted coefficients of variation, correlation coefficients and depth of pressure system values shown in Appendix A. Adjusted values of the coefficients of variation were also output at 5 km intervals in the format necessary to go onto the SCIDAT data tape (code R random perturbation data). A complete listing of the SCIDAT data tape is shown in Appendix B.

Above 90 km the temperature and density coefficients of variation were assumed to be independent of latitude and month and were taken from Figure 7 of Justus and Woodrum (1973). The coefficients of variation

for pressure above 90 km were evaluated from the Buell (1970) relation

$$V_p^2 = V_\rho^2 + V_T^2 + 2\, V_\rho V_T\, r_{\rho T} \qquad (3.4)$$

which is just a rearrangement of equation (2.2). The value of $r_{pT} = -0.52$ was used for the evaluation of V_p above 90 km, because it is a representative value for heights approaching 90 km (average over latitudes 10° to 70°), from the correlation values listed in Appendix A.

Wind Perturbation Magnitudes

Evaluation of the wind perturbation magnitudes σ_u and σ_v was performed in a sequence of steps similar to those used in evaluation of the coefficients of variation V_p, V_ρ, and V_T. The MRN data on wind component standard deviations was interpolated to latitudes 10°, 30°, 50°, 70° according to the interpolation scheme illustrated by Table 3.1. The upper altitude wind component standard deviations were similarly interpolated as shown in Table 3.2. The σ_u and σ_v values at 90° were evaluated by a relation similar to equation (3.3).

$$\sigma_{90}^2 = (4\sigma_{70}^2 - \sigma_{50}^2)/3 \qquad (3.5)$$

The MRN and upper altitude σ_u and σ_v values were merged and output at 5 km intervals in the format necessary to go onto the SCIDAT data tape (code RW random wind magnitudes) as shown in Appendix B. No adjustment operations were necessary on the σ_u and σ_v values since there are no constraints assumed to relate them and the u and v random components are not assumed to be correlated.

4. SCALES OF VARIATION

Vertical Scales

Vertical structure function scales were evaluated by the methods discussed in Section 2 for the nine MRN sites listed in Table 4.1 and the four upper level sites listed in Table 4.2. No consistent differences were observed for values in the 25-45 km height range and 45-65 km height range. Therefore only average values of vertical structure function scale for the 25-65 km height region are given in Table 4.1.

For comparison with the vertical structure function scales, values for Buell's depth of pressure systems were evaluated (from equation 2.5) at the time the thermodynamic variable coefficients of variation were being adjusted, as discussed in Section 3. A complete listing of the computed values of depth of pressure systems over the height range 22 to 90 km is given in Appendix A. Although some seasonal variation is evident, the most significant consistent variation is with latitude. Figure 4.1 shows a plot of the altitude variation of the annual average depth of pressure systems versus latitude. Values in the 0-25 km height range of Figure 1 were obtained from averages over several runs using the PROFILE program with an adjustment subroutine added to adjust the 4-D data tape statistics after they are read into the program (see Section 5). The latitude variation of the average depth of pressure systems for 25-65 km and 55-90 km is plotted in Figures 4.2 and 4.3. These figures also show for comparison the vertical structure function scales from Tables 4.1 and 4.2.

Table 4.1 MRN Vertical Structure Scales 25-65 km

Site	Latitude (deg N)	Vertical Scale (km)
Ascension	-8.0	16
Fort Sherman	9.3	18
Barking Sands	22.0	18
Kennedy SFC	28.4	17
White Sands	32.3	20
Point Mugu	34.1	25
Wallops Island	37.8	13
Fort Churchill	58.7	20
Fort Greely	64.0	21

Table 4.2 Upper Level Vertical Structure Scales 55-90 km

Site	Latitude (deg N)	Vertical Scale (km)
Natal	-5.7	14
Arecibo	18.4	22
Arenosillo	37.1	11
Wallops	37.8	13

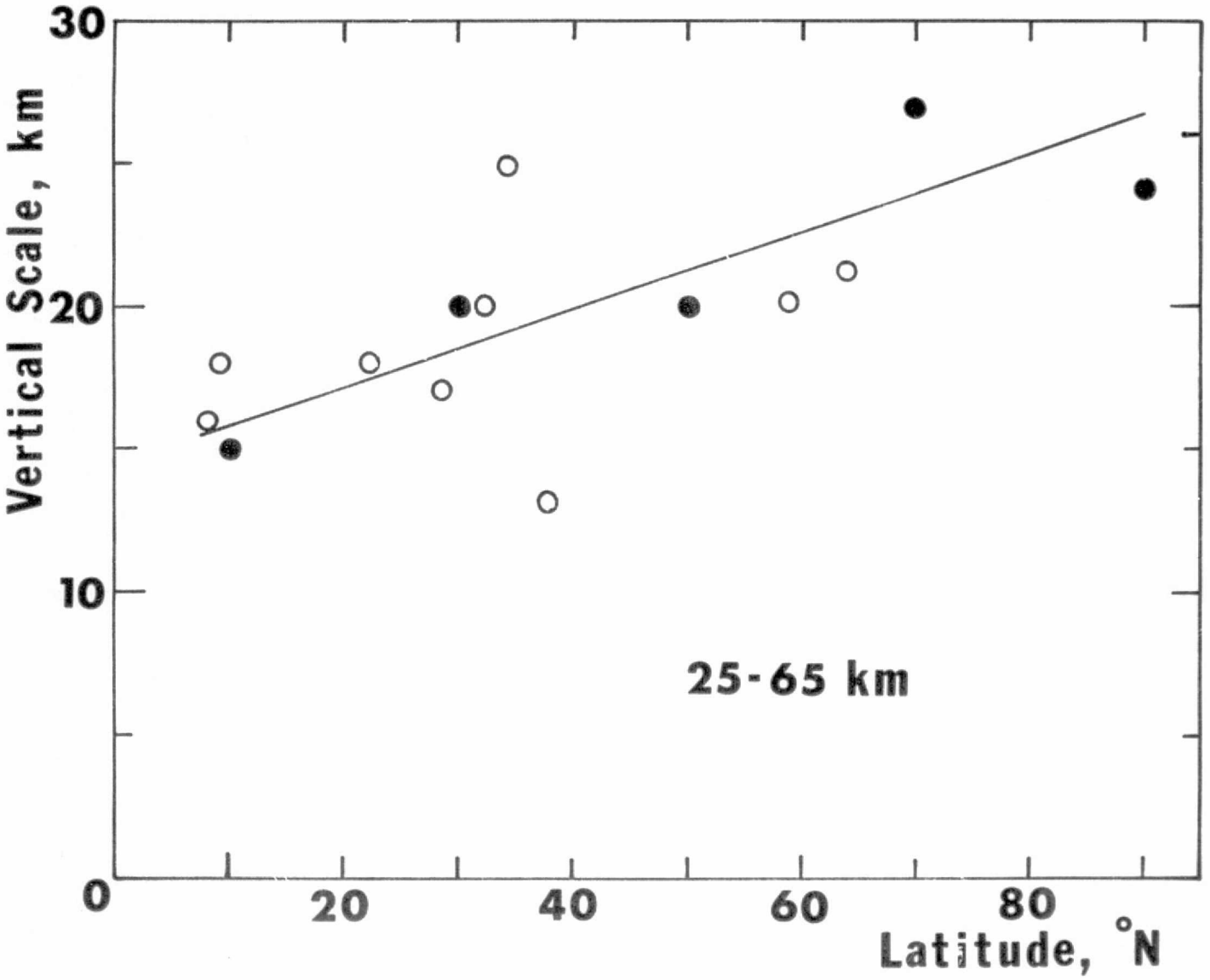

Figure 4.1 - Annual average depth of pressure systems at various latitudes.

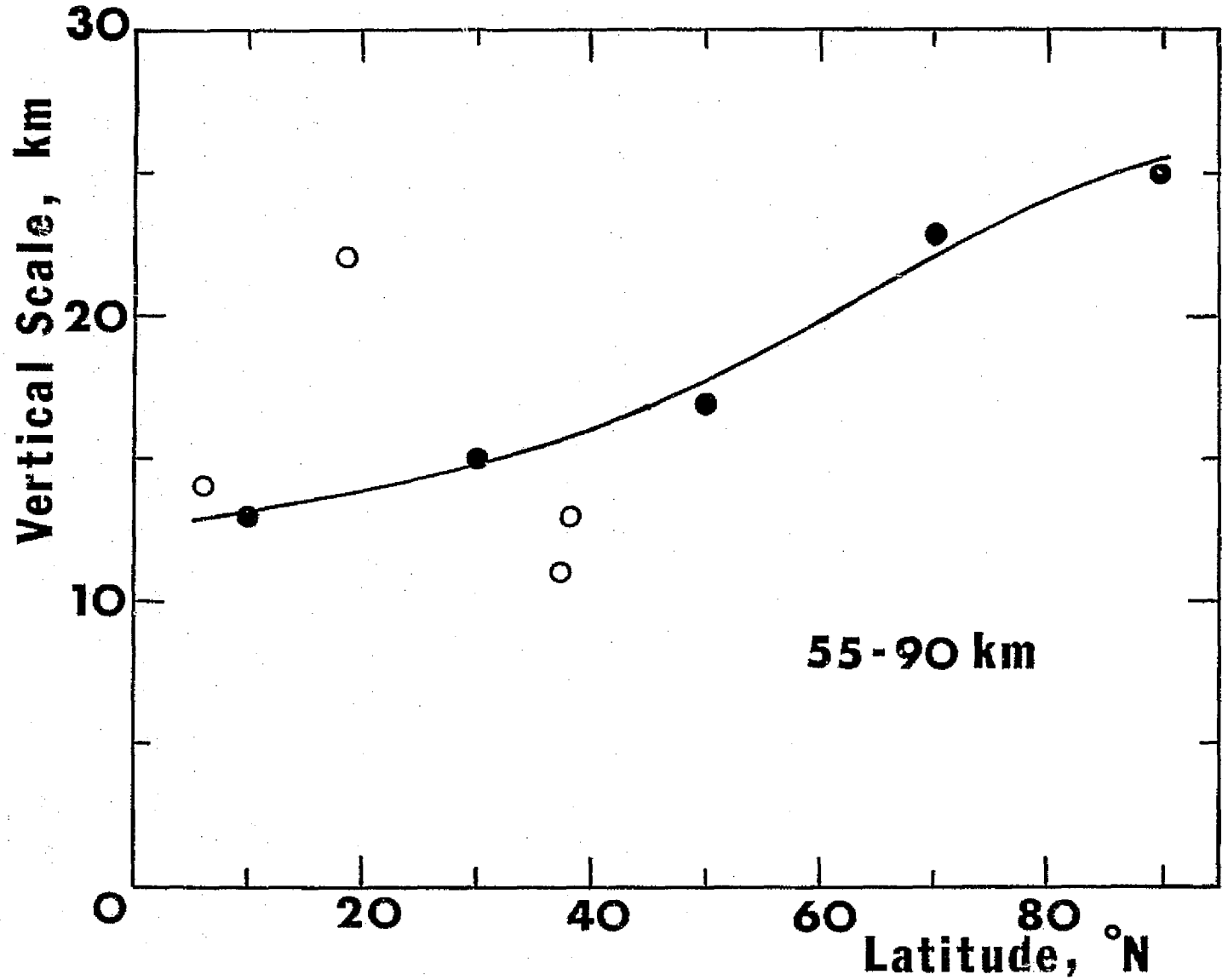

Figure 4.2 - Comparison of the structure function vertical scales (open circles) with the Buell depth of pressure systems (solid dots) in the 25 to 65 km height range.

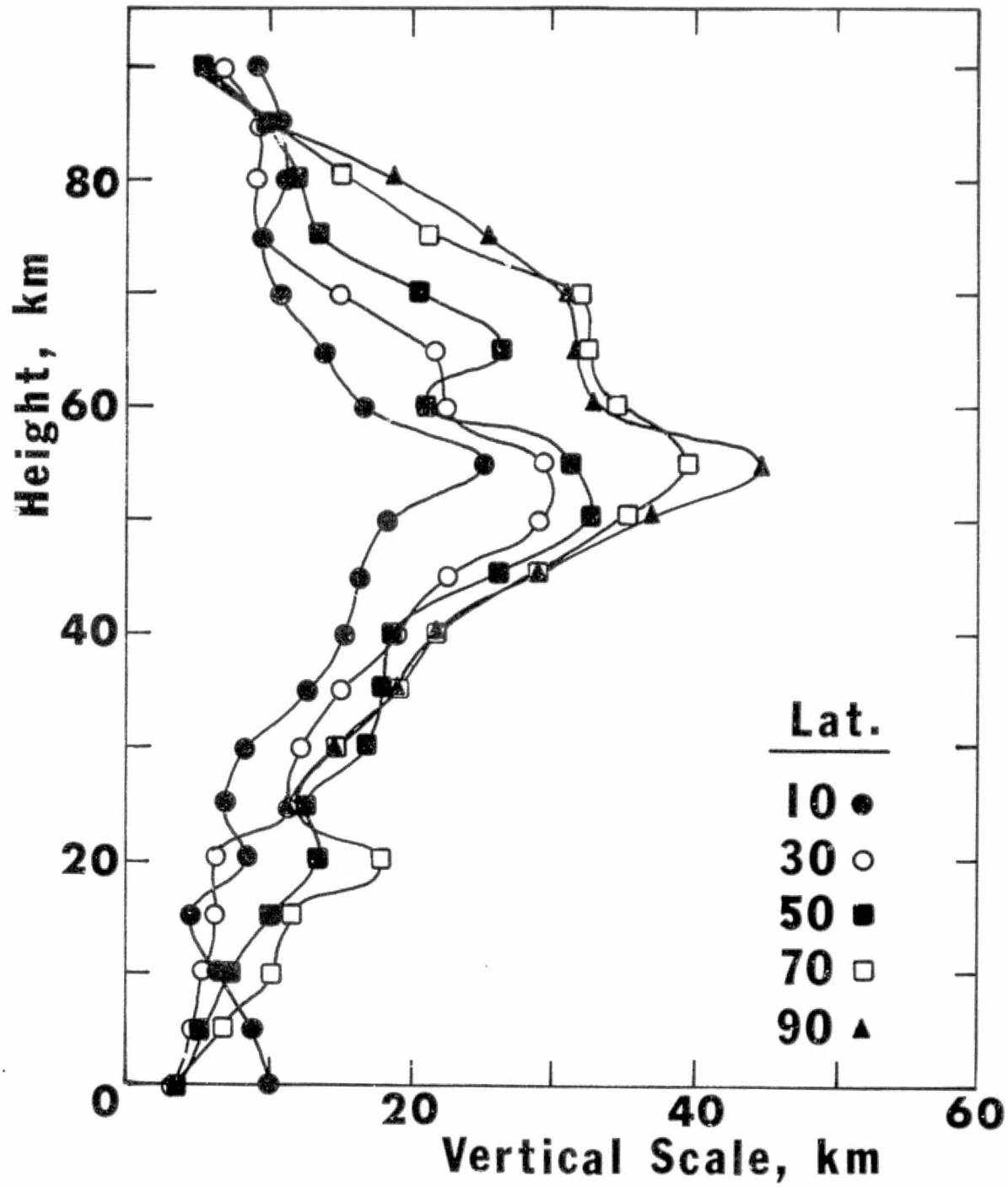

Figure 4.3 - Comparison of the structure function vertical scales (open circles) with the Buell depth of pressure systems (solid dots in the 55 to 90 km height range.

The vertical structure function scales in Figures 4.2 and 4.3 are direct estimates of the vertical scales of total perturbations about the monthly mean, as required for the PROFILE program. However, there is some scatter of these estimates (more scatter is evident at the upper levels in Figure 4.3 where there are fewer data). Therefore, since the depth of pressure system results show smoother variations but represent good averages of the vertical structure function scales, it was decided to use the Buell depth of pressure system equation (2.5) for estimating vertical scale in the PROFILE program.

Horizontal Scales

As discussed in Section 2, the horizontal structure function studies in the 25-65 km height range showed that the horizontal scale of the total perturbations about the monthly mean is less than 1400 km. This is not in disagreement with the present estimates of horizontal scale being used in the PROFILE program (see Figure 4.4), and so the present method will be retained. The horizontal scale values in Figure 4.4 were estimated from correlation studies of Buell (1972a) which showed 800 km horizontal scales at the 500 mb (6 km) height level, and a subjective estimate of 1500 km at 100 km altitude for a dominant scale for the large scale tidal and planetary wave perturbations. The horizontal and vertical scales to be used in the PROFILE program should correspond with an overall representative scale for the perturbations about the monthly means which are the largest in magnitudes. Smaller scale variations (at smaller magnitude) are recognized (e.g, gravity waves and turbulence), and could possibly be accounted for in a two-

scale random perturbation model which could be added to the PROFILE program.

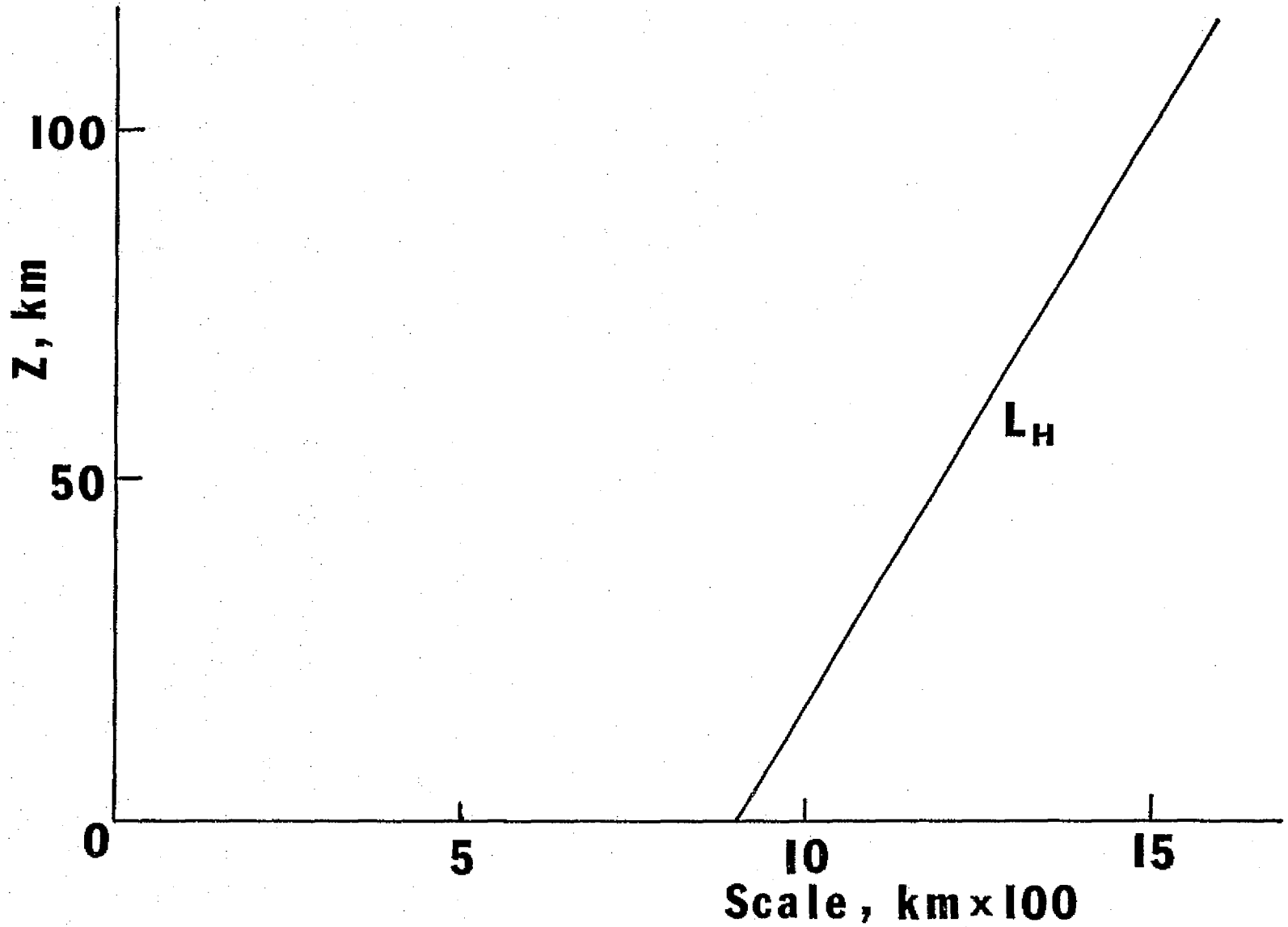

Figure 4.4 - Horizontal scale of the random perturbations in the PROFILE program.

5. PROGRAM REVISIONS

The revised values of random perturbation magnitudes, shown as the code R and code RW data in the SCIDAT-MOD-1 tape listing in Appendix B can be used in the original PROFILE program (Justus, et. al., 1974a,b). Three revisions have been made in the PROFILE program in order to make better use of the adjusted statistical parameters: 1) the linear interpolations on coefficients of variation ($V_p = \sigma_p/\bar{p}$, $V_\rho = \sigma_\rho/\rho$, or $V_T = \sigma_T/\bar{T}$) have been changed to linear interpolations on the relative variances (V_p^2, V_ρ^2, or V_T^2) because the adjustment equation (2.4) is linear in the relative variance - hence linear interpolation on variances will tend to preserve the adjustment, 2) a version of Buell's adjustment program has been added in the 4-D section (below 25 km) of the PROFILE program, to adjust the variances in the 0-25 km height range after they are read in from the 4-D data tapes, and 3) the relation (2.5) has been programed into the subroutine which evaluates vertical scale. Since additional program modifications (e.g. a double scale perturbation model) are now being planned for the PROFILE program, it is recommended that the original version still be used at the present time, but that the revised SCIDAT-MOD-1 data tape listed in Appendix B be used as input for the original PROFILE program.

APPENDIX A

PERTURBATION MAGNITUDES BY MONTH AND LATITUDE

The following data table lists the coefficients of variation $\sigma_p/\bar{p}$, $\sigma_\rho/\bar{\rho}$, $\sigma_T/\bar{T}$ (in percent) for pressure, density, and temperature perturbations as computed from observed statistics by the Buell adjustment technique. Correlations r_{pT}, $r_{\rho T}$, and $r_{p\rho}$ are computed by equations (2.1), (2.2), and (2.3) and listed in the columns labeled RPT, RTD, and RPD, respectively. The depth of pressure systems values, computed by equation (2.5) are listed in the column labeled DEPTH. Heights (ALT) are in km.

MONTH = 1 LATITUDE = 10
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	.86	.85	-.49	1.22	1.36	-.14	.95	.81	.14	.830	-.813	-.350	6.84
23.	.90	.99	-.09	1.06	1.25	-.19	1.16	1.09	.07	.549	-.646	.283	5.94
24.	1.05	1.08	-.03	1.24	1.26	-.03	1.54	1.35	.19	.345	-.661	.477	5.75
25.	1.08	1.15	-.07	1.20	1.31	-.11	1.59	1.45	.14	.316	-.659	.506	5.89
26.	1.13	1.22	-.09	1.32	1.37	-.05	1.46	1.42	.04	.404	-.617	.471	6.30
27.	1.17	1.32	-.15	1.34	1.45	-.11	1.55	1.41	.14	.487	-.575	.434	6.82
28.	1.23	1.44	-.22	1.46	1.59	-.13	1.48	1.40	.09	.579	-.538	.376	7.34
29.	1.32	1.60	-.27	1.65	1.73	-.08	1.56	1.40	.17	.651	-.495	.338	8.15
30.	1.43	1.77	-.35	1.59	1.81	-.21	1.60	1.42	.18	.687	-.415	.376	9.18
31.	1.53	1.97	-.44	1.68	1.88	-.20	1.70	1.40	.30	.734	-.311	.417	10.55
32.	1.64	2.18	-.54	1.70	2.00	-.30	1.61	1.46	.15	.758	-.242	.460	11.55
33.	2.10	2.39	-.29	1.89	2.11	-.22	2.20	1.70	.50	.722	-.224	.512	11.52
34.	2.26	2.60	-.34	1.81	2.10	-.29	2.38	2.03	.35	.645	-.208	.613	11.53
35.	3.11	2.77	.35	1.78	2.01	-.23	2.92	2.40	.52	.532	-.225	.706	11.69
36.	3.05	2.90	.16	1.74	1.94	-.19	3.08	2.70	.38	.432	-.254	.763	12.04
37.	3.06	3.01	.05	1.78	1.89	-.12	3.07	2.83	.24	.407	-.237	.791	12.75
38.	3.13	3.11	.02	1.74	1.83	-.08	3.09	2.90	.19	.403	-.197	.818	13.73
39.	3.20	3.21	-.01	1.61	1.77	-.15	3.18	3.01	.17	.383	-.180	.840	14.59
40.	3.31	3.29	.02	1.75	1.78	-.04	3.30	3.12	.18	.365	-.186	.847	14.92
41.	3.39	3.38	.01	1.73	1.82	-.10	3.33	3.25	.08	.340	-.207	.850	14.90
42.	3.51	3.46	.06	1.82	1.85	-.04	3.57	3.40	.17	.298	-.242	.854	14.86
43.	3.51	3.53	-.01	1.83	1.88	-.06	3.59	3.53	.06	.264	-.270	.858	14.88
44.	3.67	3.59	.08	1.87	1.92	-.06	3.77	3.67	.10	.227	-.303	.859	14.78
45.	3.68	3.64	.01	1.97	2.01	-.04	3.87	3.77	.10	.210	-.330	.854	14.43
46.	3.72	3.70	.02	2.08	2.09	-.00	3.85	3.79	.06	.236	-.320	.845	14.24
47.	3.74	3.77	-.03	2.09	2.11	-.01	3.84	3.76	.07	.282	-.277	.844	14.63
48.	3.80	3.85	-.05	2.04	2.09	-.05	3.74	3.74	.00	.325	-.226	.848	15.31
49.	3.95	3.94	.01	2.09	2.07	.02	3.83	3.82	.02	.320	-.213	.857	15.83
50.	4.05	4.02	.04	1.97	2.13	-.16	4.04	3.97	.08	.289	-.245	.857	15.66
51.	4.14	4.10	.04	2.41	2.24	.17	4.11	4.06	.05	.292	-.258	.849	15.18
52.	4.17	4.18	-.01	2.09	2.16	-.07	4.10	4.08	.02	.306	-.218	.863	16.02
53.	4.19	4.26	-.07	2.00	1.98	.02	4.12	4.08	.04	.320	-.151	.888	17.94
54.	4.28	4.34	-.06	1.77	1.82	-.05	4.11	4.11	-.01	.330	-.094	.905	19.89
55.	4.32	4.41	-.09	1.67	1.76	-.09	4.25	4.23	.02	.302	-.102	.918	20.69
56.	4.33	4.48	-.15	1.86	1.88	-.02	4.46	4.40	.06	.251	-.173	.910	19.14
57.	4.43	4.54	-.10	2.05	2.02	.03	4.63	4.51	.12	.234	-.212	.901	17.80
58.	4.49	4.60	-.11	2.01	2.05	-.04	4.59	4.49	.09	.277	-.173	.899	17.79
59.	4.38	4.69	-.31	2.01	2.12	-.11	4.45	4.47	-.02	.325	-.134	.894	17.58
60.	4.44	4.78	-.34	2.30	2.35	-.05	4.75	4.61	.14	.316	-.181	.876	15.97
61.	4.64	4.89	-.25	2.54	2.64	-.10	5.01	4.81	.20	.297	-.247	.852	14.13
62.	4.83	5.00	-.18	2.83	2.94	-.11	5.20	4.97	.23	.304	-.285	.827	12.82
63.	5.09	5.14	-.05	3.09	3.22	-.13	5.36	5.07	.29	.336	-.295	.801	11.89
64.	5.26	5.31	-.05	3.35	3.36	-.01	5.33	5.11	.22	.377	-.267	.792	11.78
65.	5.56	5.50	.05	3.11	3.36	-.25	5.35	5.14	.21	.410	-.214	.803	12.20
66.	5.72	5.72	.00	3.37	3.53	-.17	5.38	5.27	.11	.431	-.203	.796	11.92
67.	6.09	5.96	.12	3.83	3.85	-.02	5.74	5.53	.21	.431	-.232	.778	11.20
68.	6.33	6.22	.10	3.95	4.04	-.09	5.93	5.81	.12	.423	-.242	.777	10.90
69.	6.56	6.49	.07	4.07	4.18	-.11	6.19	6.15	.05	.409	-.255	.782	10.67
70.	6.84	6.75	.10	4.35	4.41	-.07	6.72	6.65	.07	.349	-.309	.783	10.08
71.	7.02	6.98	.04	4.65	4.64	.02	7.35	7.23	.11	.276	-.375	.788	9.58
72.	7.28	7.16	.12	4.70	4.70	-.00	7.83	7.74	.09	.199	-.423	.804	9.41
73.	7.42	7.28	.13	4.62	4.72	-.10	8.19	8.19	-.00	.119	-.470	.821	9.33
74.	7.51	7.36	.16	4.86	4.90	-.04	8.67	8.55	.12	.070	-.513	.820	8.94
75.	7.59	7.44	.16	5.27	5.19	.08	8.67	8.59	.09	.110	-.509	.800	8.48
76.	7.60	7.59	.01	5.41	5.36	.05	8.23	8.21	.02	.233	-.437	.772	8.52
77.	7.95	7.88	.07	5.45	5.51	-.06	7.57	7.72	-.15	.377	-.328	.751	8.99
78.	8.33	8.29	.05	5.63	5.61	.22	7.38	7.47	-.09	.476	-.222	.761	9.79
79.	8.88	8.76	.12	5.44	5.43	.01	7.41	7.56	-.16	.515	-.121	.789	10.91
80.	8.09	9.22	-1.13	5.06	5.19	-.12	7.97	8.06	-.09	.498	-.083	.828	11.82
81.	9.75	9.62	.13	5.08	5.25	-.17	9.09	8.90	.19	.406	-.151	.842	11.56
82.	10.03	9.96	.07	5.54	5.47	.07	9.89	9.65	.24	.331	-.225	.845	11.07
83.	10.32	10.27	.05	5.47	5.67	-.20	10.21	10.12	.08	.302	-.254	.845	10.84
84.	10.67	10.60	.07	6.00	5.99	.02	10.56	10.30	.27	.332	-.240	.836	10.65
85.	11.12	11.01	.10	6.31	6.54	-.23	10.13	10.21	-.08	.416	-.193	.813	10.51
86.	11.57	11.57	.00	7.42	7.35	.07	10.19	10.25	-.06	.487	-.166	.780	10.14
87.	12.26	12.25	.00	8.15	7.92	.22	10.61	10.68	-.08	.509	-.158	.770	9.99
88.	13.01	12.98	.03	7.90	8.14	-.24	11.43	11.44	-.01	.492	-.154	.785	10.08
89.	13.76	13.74	.02	8.55	8.91	-.36	12.37	12.29	.08	.478	-.198	.771	9.56
90.	14.70	14.62	.08	10.59	10.59	-.01	13.04	13.04	.01	.504	-.247	.712	8.66

MONTH = 1 LATITUDE = 30
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	.95	1.55	-.60	2.32	2.32	.00	1.49	1.46	.03	.785	-.754	-.185	6.76
23.	1.26	1.79	-.52	1.83	2.03	-.19	2.19	1.75	.44	.584	-.562	.343	6.83
24.	1.44	1.96	-.52	1.63	1.82	-.19	1.77	1.73	.04	.596	-.388	.520	8.46
25.	1.69	2.13	-.44	1.56	1.75	-.19	1.97	1.79	.18	.598	-.278	.611	9.64
26.	1.98	2.28	-.30	1.62	1.79	-.16	2.34	1.98	.36	.552	-.266	.657	9.92
27.	2.13	2.43	-.30	1.64	1.88	-.24	2.33	2.20	.13	.504	-.298	.674	9.77
28.	2.65	2.57	.08	1.89	2.02	-.14	3.01	2.53	.48	.413	-.381	.685	9.18
29.	2.66	2.69	-.03	1.96	2.15	-.19	3.01	2.77	.24	.362	-.425	.690	8.92
30.	2.70	2.81	-.11	2.13	2.27	-.14	3.21	2.89	.31	.367	-.427	.685	8.94
31.	2.77	2.94	-.17	2.22	2.36	-.15	3.19	2.95	.24	.399	-.404	.679	9.14
32.	2.87	3.09	-.22	2.26	2.41	-.15	3.22	2.94	.28	.454	-.344	.681	9.77
33.	2.96	3.27	-.31	2.28	2.47	-.20	3.09	2.93	.16	.506	-.280	.687	10.49
34.	3.21	3.45	-.24	2.41	2.59	-.18	3.33	3.10	.24	.506	-.273	.692	10.66
35.	3.54	3.64	-.10	2.56	2.74	-.17	3.69	3.37	.32	.471	-.303	.698	10.51
36.	3.67	3.82	-.15	2.69	2.88	-.20	3.87	3.61	.26	.456	-.332	.701	10.48
37.	3.81	4.01	-.20	2.88	3.06	-.18	4.10	3.80	.30	.458	-.331	.694	10.53
38.	4.01	4.21	-.20	3.08	3.14	-.06	4.20	3.90	.30	.469	-.300	.703	11.02
39.	4.16	4.41	-.25	2.80	3.01	-.21	4.17	3.92	.25	.496	-.210	.745	12.44
40.	4.32	4.61	-.29	2.69	2.87	-.18	4.19	3.95	.24	.526	-.112	.786	14.16
41.	4.50	4.81	-.31	2.66	2.82	-.16	4.31	4.09	.22	.531	-.065	.811	15.20
42.	4.78	5.00	-.23	2.65	2.78	-.13	4.64	4.35	.28	.497	-.067	.833	15.80
43.	5.03	5.17	-.15	2.54	2.71	-.16	4.97	4.66	.31	.441	-.092	.853	16.38
44.	5.23	5.32	-.09	2.52	2.65	-.13	5.24	4.94	.30	.388	-.120	.868	16.85
45.	5.41	5.44	-.03	2.51	2.64	-.13	5.43	5.12	.31	.361	-.131	.877	17.37
46.	5.57	5.56	.00	2.54	2.63	-.09	5.43	5.22	.21	.363	-.116	.883	17.84
47.	5.71	5.69	.02	2.51	2.55	-.05	5.53	5.29	.23	.372	-.083	.894	18.88
48.	5.82	5.80	.01	2.31	2.41	-.10	5.52	5.36	.16	.383	-.034	.910	20.62
49.	5.90	5.92	-.02	2.20	2.28	-.07	5.63	5.49	.14	.373	-.013	.923	22.20
50.	6.06	6.02	.04	2.13	2.29	-.16	5.86	5.67	.19	.339	-.044	.925	22.23
51.	6.18	6.12	.06	2.46	2.47	-.00	5.93	5.81	.12	.322	-.066	.916	20.70
52.	6.33	6.22	.11	2.59	2.61	-.01	6.06	6.01	.06	.289	-.135	.910	19.56
53.	6.64	6.30	.34	2.59	2.64	-.05	6.41	6.31	.10	.206	-.213	.912	19.05
54.	6.94	6.37	.57	2.66	2.71	-.05	6.66	6.36	.30	.216	-.210	.909	18.66
55.	6.07	6.47	-.40	2.87	2.88	-.01	6.88	6.12	-.23	.343	-.108	.897	18.47
56.	6.24	6.62	-.38	3.06	3.09	-.04	6.18	6.11	.07	.392	-.081	.885	17.77
57.	6.56	6.78	-.22	3.25	3.24	.01	6.47	6.35	.12	.366	-.120	.880	16.96
58.	6.77	6.93	-.16	3.19	3.29	-.09	6.74	6.60	.14	.333	-.104	.883	16.76
59.	7.13	7.06	.07	3.25	3.31	-.06	7.02	6.90	.12	.283	-.190	.888	16.49
60.	7.41	7.18	.23	3.28	3.41	-.13	7.40	7.21	.19	.228	-.246	.888	15.88
61.	7.52	7.28	.24	3.59	3.65	-.05	7.57	7.50	.07	.190	-.302	.879	14.70
62.	7.85	7.37	.48	3.91	3.93	-.02	7.90	7.86	.04	.137	-.372	.869	13.51
63.	8.37	7.42	.95	4.20	4.17	.03	8.32	8.25	.06	.070	-.442	.864	12.55
64.	8.37	7.45	.92	4.42	4.12	.29	8.38	8.50	-.12	.002	-.483	.875	12.52
65.	7.28	7.43	-.15	3.71	3.91	-.21	8.46	8.60	-.14	-.059	-.506	.891	13.09
66.	7.26	7.40	-.14	4.12	4.00	.05	9.45	8.61	-.16	-.045	-.513	.881	12.22
67.	7.31	7.39	-.08	4.69	4.45	.19	9.51	8.56	-.05	.017	-.505	.854	10.90
68.	7.37	7.42	-.04	4.63	4.56	.06	8.35	8.49	-.14	.054	-.490	.844	10.63
69.	7.47	7.45	.02	4.53	4.49	.04	8.42	8.53	-.11	.042	-.490	.851	10.64
70.	7.53	7.45	.07	4.43	4.58	-.15	8.67	8.87	-.20	-.032	-.543	.857	10.30
71.	7.50	7.40	.10	5.07	5.00	.07	9.44	9.36	.07	-.108	-.619	.868	9.29
72.	7.55	7.31	.25	5.60	5.51	.10	9.58	9.60	-.02	-.106	-.654	.882	8.24
73.	7.60	7.24	.37	6.01	5.93	.08	9.38	9.56	-.18	-.045	-.654	.785	7.43
74.	7.66	7.24	.42	6.50	6.43	.08	9.32	9.47	-.16	.043	-.646	.735	6.80
75.	7.91	7.35	.56	7.28	6.88	.41	9.07	9.25	-.18	.156	-.620	.670	6.46
76.	7.63	7.61	.02	7.23	7.00	.23	8.59	8.80	-.21	.277	-.556	.644	6.69
77.	8.07	8.00	.07	7.11	6.82	.29	7.95	8.24	-.29	.390	-.449	.648	7.50
78.	7.96	8.47	-.51	6.56	6.49	.07	7.65	8.09	-.44	.440	-.341	.694	8.51
79.	8.65	8.93	-.28	6.24	6.16	.08	8.60	8.47	.03	.418	-.287	.751	9.29
80.	8.50	9.34	-.84	5.87	6.00	-.14	8.93	9.15	-.22	.352	-.297	.789	9.69
81.	9.46	9.66	-.20	6.01	6.12	-.11	10.32	9.94	.38	.271	-.353	.805	9.48
82.	9.61	9.95	-.34	6.35	6.35	.00	10.62	10.31	.31	.262	-.363	.804	9.31
83.	9.78	10.29	-.51	6.30	6.66	-.35	10.33	10.23	.10	.332	-.317	.790	9.35
84.	10.08	10.76	-.68	7.13	6.99	.15	10.52	9.93	.59	.439	-.229	.775	9.75
85.	11.36	11.37	-.01	6.63	6.97	-.34	9.47	9.51	-.04	.551	-.074	.701	11.10
86.	12.11	12.06	.04	6.62	6.95	-.33	9.86	9.82	.04	.580	.004	.817	12.03
87.	13.01	12.70	.30	7.14	6.76	.37	11.34	11.18	.16	.478	-.061	.847	12.02
88.	13.52	13.19	.33	5.50	6.59	-1.10	13.32	13.13	.19	.253	-.249	.874	11.52
89.	13.97	13.33	.64	7.76	8.02	-.26	15.53	15.12	.42	.064	-.474	.888	9.27
90.	13.94	13.44	.50	10.73	10.76	-.04	16.77	16.71	.06	.059	-.596	.765	6.92

MONTH = 1 LATITUDE = 50
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	1.21	3.37	-2.16	1.36	2.47	-1.12	1.24	1.36	-.12	.936	.497	.770	24.71
23.	3.90	3.66	.23	2.29	2.65	-.36	4.30	3.04	1.26	.576	-.176	.703	10.85
24.	3.91	3.87	.04	2.50	2.75	-.24	4.45	3.76	.70	.394	-.326	.740	9.81
25.	3.94	4.03	-.09	2.47	2.77	-.30	4.39	3.97	.42	.365	-.327	.761	10.06
26.	6.57	4.18	2.39	2.58	2.78	-.20	4.47	4.17	.30	.336	-.330	.778	10.28
27.	4.05	4.32	-.28	2.64	2.81	-.17	4.48	4.34	.15	.320	-.328	.790	10.47
28.	4.69	4.46	.23	2.76	2.88	-.12	4.78	4.55	.24	.291	-.347	.796	10.47
29.	4.82	4.58	.23	2.90	3.00	-.10	4.97	4.77	.20	.266	-.375	.794	10.23
30.	4.92	4.71	.21	3.09	3.18	-.10	4.99	4.94	.05	.264	-.393	.783	9.96
31.	5.01	4.84	.17	3.40	3.42	-.02	5.24	5.14	.10	.265	-.416	.767	9.65
32.	5.15	5.00	.15	3.62	3.65	-.03	5.34	5.27	.08	.280	-.419	.748	9.39
33.	5.12	5.18	-.06	3.87	3.85	.02	5.29	5.29	-.00	.342	-.394	.729	9.37
34.	5.39	5.39	-.00	3.98	4.01	-.03	5.35	5.34	.00	.388	-.362	.722	9.61
35.	5.74	5.64	.10	4.13	4.22	-.09	5.47	5.48	-.01	.412	-.346	.713	9.71
36.	6.04	5.93	.11	4.59	4.58	.02	5.68	5.61	.06	.453	-.336	.687	9.70
37.	6.41	6.28	.13	5.00	5.00	-.00	5.62	5.65	-.03	.518	-.309	.653	9.80
38.	6.74	6.70	.03	5.47	5.46	.01	5.62	5.70	-.09	.577	-.279	.623	10.28
39.	7.18	7.20	-.02	5.99	5.90	.09	5.87	5.86	.01	.616	-.251	.604	10.65
40.	7.69	7.74	-.05	6.24	6.10	.13	5.99	6.08	-.09	.638	-.192	.634	11.47
41.	8.47	8.30	.17	6.02	6.02	-.01	6.39	6.42	-.03	.639	-.112	.693	12.58
42.	9.05	8.83	.22	5.91	5.86	.05	6.82	6.84	-.02	.633	-.039	.769	13.85
43.	9.46	9.34	.12	5.73	5.72	.01	7.20	7.28	-.08	.627	.019	.791	15.04
44.	10.00	9.83	.17	5.66	5.59	.07	7.71	7.80	-.09	.610	.052	.823	16.10
45.	10.47	10.28	.20	5.50	5.48	.01	8.33	8.44	-.11	.572	.047	.846	16.70
46.	10.86	10.68	.18	5.48	5.39	.10	9.07	9.09	-.02	.525	.025	.864	17.10
47.	11.24	11.04	.20	5.31	5.16	.14	9.52	9.58	-.06	.499	.036	.884	18.35
48.	11.59	11.38	.22	4.79	4.77	.02	9.78	9.92	-.14	.495	.087	.909	20.49
49.	11.92	11.68	.24	4.43	4.42	.01	10.13	10.30	-.17	.482	.117	.927	22.66
50.	12.22	11.94	.28	4.27	4.23	.04	10.64	10.82	-.18	.429	.081	.935	23.65
51.	12.53	12.15	.38	4.20	4.14	.07	11.27	11.39	-.12	.348	.008	.940	23.67
52.	12.73	12.32	.41	4.13	4.08	.05	11.68	11.88	-.20	.271	-.062	.944	23.70
53.	12.93	12.44	.49	4.15	4.10	.05	12.08	12.35	-.27	.188	-.143	.945	23.23
54.	13.17	12.52	.65	4.33	4.21	.12	12.59	12.87	-.27	.084	-.245	.945	22.46
55.	13.35	12.54	.81	4.44	4.27	.17	13.03	13.34	-.31	-.023	-.342	.947	22.07
56.	13.42	12.50	.91	4.40	4.23	.17	13.24	13.54	-.31	-.087	-.392	.950	22.16
57.	13.01	12.45	.56	4.28	4.10	.18	12.93	13.49	-.56	-.100	-.396	.953	22.60
58.	12.74	12.39	.35	4.10	3.95	.15	12.92	13.44	-.52	-.116	-.401	.956	23.20
59.	12.49	12.35	.14	4.01	3.87	.14	12.89	13.15	-.26	-.056	-.347	.956	23.37
60.	12.38	12.33	.05	4.06	3.89	.17	11.81	13.01	-1.20	-.022	-.320	.954	23.10
61.	12.65	12.27	.38	4.11	4.00	.12	13.50	13.58	-.08	-.102	-.459	.957	22.47
62.	12.34	12.13	.21	4.41	4.16	.25	13.38	14.03	-.65	-.321	-.574	.960	21.96
63.	12.03	11.92	.11	4.46	4.27	.19	13.65	14.09	-.44	-.376	-.621	.960	21.32
64.	12.01	11.69	.32	4.51	4.34	.17	13.51	13.89	-.38	-.369	-.622	.957	20.36
65.	11.28	11.49	-.21	4.59	4.41	.18	12.84	13.41	-.57	-.280	-.569	.949	18.90
66.	11.19	11.33	-.14	4.60	4.52	.08	12.67	13.09	-.42	-.218	-.535	.941	17.73
67.	11.09	11.19	-.10	4.86	4.67	.18	12.68	12.99	-.31	-.207	-.539	.936	16.76
68.	10.99	11.04	-.04	4.96	4.76	.19	12.71	12.97	-.26	-.224	-.559	.934	16.14
69.	10.91	10.86	.05	4.89	4.79	.10	12.75	13.00	-.25	-.271	-.594	.935	15.87
70.	10.74	10.65	.09	4.86	4.95	-.09	12.91	13.13	-.22	-.327	-.643	.934	15.24
71.	10.57	10.39	.19	5.53	5.46	.07	13.12	13.28	-.16	-.341	-.678	.922	13.44
72.	8.57	10.11	-1.54	6.18	6.16	.02	13.33	13.29	.04	-.294	-.687	.897	11.30
73.	10.22	9.85	.37	6.90	6.78	.02	13.29	13.19	.10	-.232	-.687	.866	9.76
74.	10.03	9.63	.41	7.18	7.26	-.07	13.14	13.07	.07	-.183	-.690	.838	8.73
75.	9.99	9.51	.49	7.77	7.60	.17	12.90	12.34	.57	-.028	-.638	.788	8.02
76.	9.63	9.58	.05	7.78	7.73	.05	10.30	11.40	-1.10	.146	-.556	.742	7.96
77.	9.62	9.76	-.14	7.76	7.67	.09	11.85	11.50	.35	.146	-.543	.751	8.00
78.	9.57	9.91	-.34	7.53	7.54	-.01	11.79	11.81	-.02	.106	-.551	.773	8.28
79.	9.80	10.06	-.26	7.37	7.49	-.12	11.75	11.68	.07	.138	-.523	.772	8.41
80.	9.85	10.24	-.39	7.59	7.64	-.04	11.62	11.74	-.12	.163	-.509	.767	8.39
81.	10.30	10.44	-.14	7.73	7.72	.01	12.35	11.99	.36	.156	-.510	.771	8.41
82.	10.38	10.63	-.25	7.49	7.75	-.25	12.18	12.13	.05	.157	-.501	.776	8.50
83.	10.49	10.86	-.37	7.86	7.88	-.02	12.48	12.12	.36	.193	-.477	.770	8.56
84.	10.60	11.15	-.56	7.79	7.64	.15	12.15	11.72	.43	.266	-.309	.778	9.17
85.	11.52	11.51	.01	6.50	6.89	-.39	11.12	11.25	-.13	.337	-.269	.817	10.75
86.	11.94	11.87	.07	6.14	6.61	-.46	11.71	11.70	.01	.304	-.256	.843	11.43
87.	12.51	12.11	.40	7.09	6.70	.40	13.28	12.96	.32	.146	-.390	.859	11.08
88.	12.82	12.16	.67	6.03	6.97	-.94	14.41	14.40	.00	-.066	-.539	.876	10.59
89.	12.42	12.03	.40	8.47	8.53	-.06	16.06	15.63	.44	-.131	-.646	.841	8.62
90.	11.94	11.94	-.01	11.05	11.05	.00	16.18	16.18	-.00	.011	-.675	.731	6.58

MONTH = 1 LATITUDE = 70
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RRD	DEPTH
22.	6.05	5.91	.13	4.79	4.79	.01	3.97	3.97	-.01	.744	-.098	.592	11.35
23.	6.45	6.50	-.05	4.65	4.68	-.04	3.94	4.07	-.13	.782	.098	.697	13.62
24.	7.03	7.10	-.07	4.68	4.65	.03	4.42	4.52	-.10	.781	.197	.766	14.87
25.	7.97	7.68	.29	4.63	4.62	.01	5.29	5.26	.03	.742	.204	.808	15.01
26.	8.53	8.23	.30	4.61	4.63	-.01	5.96	5.97	-.00	.703	.195	.834	15.16
27.	9.05	8.75	.30	4.79	4.49	.30	6.47	6.64	-.17	.670	.206	.865	15.90
28.	9.77	9.20	.57	3.97	4.08	-.11	7.35	7.46	-.11	.607	.201	.401	17.19
29.	10.19	9.56	.63	3.86	3.90	-.04	8.20	8.36	-.17	.491	.096	.914	17.06
30.	10.54	9.85	.69	4.26	4.08	.19	8.99	9.10	-.11	.383	-.033	.910	15.92
31.	10.85	10.09	.76	4.41	4.32	.08	9.24	9.56	-.32	.334	-.100	.905	15.15
32.	11.31	10.33	.98	4.84	4.55	.28	9.55	9.91	-.36	.310	-.137	.900	14.66
33.	11.29	10.56	.73	4.90	4.90	.00	9.83	10.20	-.37	.305	-.165	.889	13.97
34.	11.49	10.83	.66	5.88	5.37	.51	9.92	10.33	-.41	.340	-.164	.872	13.30
35.	11.56	11.16	.40	5.87	5.68	.19	9.89	10.34	-.45	.393	-.125	.863	13.39
36.	11.69	11.54	.15	6.16	5.87	.29	9.96	10.39	-.43	.440	-.076	.862	13.71
37.	12.03	11.97	.05	6.29	6.06	.23	10.20	10.58	-.38	.470	-.042	.863	14.14
38.	12.48	12.44	.04	6.40	6.24	.16	10.57	10.86	-.29	.487	-.016	.865	14.57
39.	12.99	12.93	.06	6.65	6.37	.28	10.87	11.10	-.24	.513	.023	.870	15.22
40.	13.53	13.45	.08	6.49	6.39	.11	10.99	11.35	-.36	.540	.077	.881	16.26
41.	14.24	13.98	.25	6.52	6.37	.15	11.55	11.72	-.16	.555	.118	.892	17.36
42.	14.80	14.53	.27	6.51	6.34	.17	11.80	12.06	-.26	.574	.165	.903	18.58
43.	15.27	15.07	.19	6.35	6.21	.13	12.16	12.44	-.28	.593	.219	.916	20.27
44.	15.83	15.61	.22	6.14	6.02	.12	12.71	12.97	-.25	.595	.252	.928	22.00
45.	16.23	16.12	.11	5.89	5.83	.06	13.37	13.56	-.19	.595	.265	.937	23.54
46.	16.68	16.60	.07	5.80	5.70	.09	13.90	14.11	-.20	.576	.274	.944	24.81
47.	17.13	17.06	.06	5.69	5.54	.15	14.39	14.57	-.18	.579	.298	.951	26.65
48.	17.60	17.51	.09	5.33	5.28	.04	14.78	15.06	-.28	.581	.324	.958	29.07
49.	18.06	17.91	.15	5.08	4.99	.09	15.52	15.69	-.17	.556	.317	.964	31.23
50.	18.39	18.27	.12	4.73	4.65	.07	16.20	16.42	-.23	.503	.276	.970	33.22
51.	18.52	18.55	-.04	4.30	4.42	-.11	17.05	17.19	-.14	.416	.191	.972	33.79
52.	18.70	18.77	-.07	4.52	4.38	.14	17.78	17.93	-.15	.303	.073	.973	32.88
53.	18.76	18.91	-.15	4.35	4.36	-.01	18.49	18.63	-.14	.178	-.053	.973	32.38
54.	18.95	18.97	-.03	4.36	4.41	-.05	19.23	19.35	-.12	.030	-.199	.974	31.63
55.	19.05	18.94	.10	4.68	4.60	.09	19.96	20.02	-.06	-.118	-.342	.974	30.60
56.	19.17	18.82	.35	4.78	4.73	.05	20.42	20.57	-.15	-.261	-.468	.975	30.17
57.	19.16	18.62	.55	4.81	4.75	.07	20.87	20.84	.02	-.378	-.558	.977	30.65
58.	19.21	18.36	.86	4.74	4.76	-.02	21.22	20.91	.41	-.450	-.599	.978	30.74
59.	19.06	18.10	.96	4.94	4.86	.07	21.36	20.33	1.00	-.358	-.557	.975	28.57
60.	17.11	17.89	-.77	5.18	5.11	.08	19.55	19.81	-1.26	-.255	-.488	.968	25.87
61.	16.75	17.68	-.94	5.63	5.55	.08	19.85	19.97	-.12	-.232	-.528	.964	23.44
62.	16.70	17.43	-.73	5.21	5.96	.26	20.06	20.23	-.16	-.336	-.584	.961	21.73
63.	16.65	17.14	-.49	6.06	6.92	.14	19.98	19.96	.02	-.343	-.591	.960	21.20
64.	16.35	16.85	-.50	5.47	5.55	-.07	19.40	19.50	-.10	-.351	-.588	.964	22.22
65.	16.60	16.57	.03	5.19	5.18	.01	19.17	19.08	.09	-.364	-.588	.967	23.32
66.	16.38	16.29	.08	4.83	4.93	-.10	18.67	18.71	-.04	-.374	-.590	.970	23.98
67.	16.14	16.02	.12	4.85	4.85	-.00	18.42	18.45	-.03	-.387	-.599	.970	23.88
68.	15.84	15.72	.12	4.88	4.93	-.05	18.30	18.34	-.04	-.418	-.628	.970	23.23
69.	15.52	15.38	.14	5.12	5.14	-.02	18.27	18.37	-.10	-.473	-.675	.969	22.27
70.	15.12	14.96	.16	5.46	5.50	-.04	18.50	18.54	-.04	-.544	-.736	.968	21.06
71.	14.72	14.50	.23	6.03	6.07	-.04	18.65	18.31	.34	-.602	-.729	.958	17.70
72.	12.53	14.04	-1.51	6.62	6.71	-.08	18.81	17.96	.84	-.428	-.708	.941	19.78
73.	13.62	13.53	.10	7.15	7.08	.06	18.76	18.18	.57	-.509	-.764	.942	14.00
74.	12.95	12.90	.05	7.12	7.17	-.04	18.23	18.16	.08	-.606	-.824	.949	14.29
75.	12.33	12.27	.06	7.18	7.26	-.08	17.64	17.09	.55	-.498	-.783	.930	12.20
76.	11.76	11.77	-.01	7.50	7.53	-.03	15.00	16.01	-1.00	-.345	-.724	.807	10.38
77.	11.11	11.32	-.21	7.87	7.98	-.11	16.52	16.09	.43	-.371	-.757	.888	9.40
78.	10.84	10.81	.03	8.59	8.63	-.04	16.48	16.28	.20	-.395	-.792	.873	8.46
79.	10.33	10.31	.01	8.38	8.27	.10	15.83	15.77	.06	-.294	-.781	.827	7.18
80.	9.86	9.95	-.09	8.65	8.58	.07	15.12	15.05	.07	-.188	-.761	.780	6.54
81.	9.75	9.72	.03	8.53	8.47	.05	14.30	14.25	.05	-.103	-.734	.750	6.37
82.	9.68	9.60	.09	8.07	8.40	-.33	13.44	13.82	-.38	-.058	-.720	.734	6.32
83.	9.68	9.51	.16	8.88	8.46	.41	14.17	13.76	.41	-.051	-.723	.727	6.22
84.	9.62	9.43	.19	8.05	8.02	.02	13.22	13.41	-.20	-.055	-.712	.741	6.47
85.	9.58	9.33	.25	8.24	8.29	-.05	12.87	13.07	-.20	-.097	-.704	.776	6.90
86.	9.41	9.14	.27	7.82	8.11	-.29	12.99	13.32	-.32	-.189	-.739	.801	7.09
87.	9.38	8.84	.55	8.89	8.30	.58	13.90	13.65	.25	-.268	-.782	.810	6.88
88.	9.41	8.47	.94	8.16	8.41	-.24	12.98	13.47	-.50	-.275	-.796	.800	6.58
89.	7.85	8.21	-.36	9.19	8.06	.14	12.87	12.83	.04	-.102	-.771	.712	5.68
90.	7.47	8.34	-.87	10.49	10.38	.11	11.48	11.60	-.12	.247	-.717	.498	5.20

MONTH = 1 LATITUDE = 90
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	6.95	6.42	.52	5.48	5.45	.03	4.52	4.55	-.02	.718	-.184	.552	10.26
23.	7.10	7.10	-.00	5.20	5.23	-.03	3.81	4.17	-.36	.819	.130	.687	14.05
24.	7.80	7.81	-.01	5.21	5.15	.06	4.41	4.59	-.18	.826	.285	.775	16.09
25.	8.91	8.50	.42	5.15	5.11	.05	5.56	5.53	.03	.780	.275	.816	15.80
26.	9.09	9.15	-.06	5.12	5.12	-.00	6.38	6.40	-.02	.736	.252	.841	15.60
27.	10.19	9.76	.43	5.31	4.95	.37	7.01	7.20	-.19	.703	.265	.873	16.48
28.	10.95	10.29	.66	4.30	4.43	-.13	8.03	8.17	-.14	.645	.271	.910	18.06
29.	11.43	10.71	.71	4.12	4.18	-.06	9.02	9.22	-.20	.527	.159	.923	17.91
30.	11.83	11.05	.78	4.59	4.36	.23	9.97	10.09	-.12	.409	.015	.919	16.67
31.	12.19	11.34	.85	4.69	4.62	.06	10.24	10.61	-.38	.356	-.065	.914	15.69
32.	12.71	11.60	1.11	5.18	4.86	.31	10.56	11.04	-.46	.322	-.102	.909	15.13
33.	12.84	11.86	.98	5.25	5.26	-.01	11.06	11.45	-.39	.299	-.150	.869	14.25
34.	12.99	12.15	.84	6.40	5.80	.60	11.13	11.65	-.52	.324	-.160	.882	13.42
35.	13.09	12.49	.59	6.35	6.11	.24	11.15	11.66	-.50	.377	-.120	.874	13.43
36.	13.10	12.91	.20	6.62	6.27	.35	11.10	11.67	-.57	.431	-.061	.874	13.88
37.	13.46	13.37	.09	6.68	6.40	.28	11.39	11.87	-.48	.461	-.020	.878	14.40
38.	13.94	13.86	.08	6.68	6.49	.19	11.84	12.21	-.37	.474	.007	.884	14.85
39.	14.48	14.38	.11	6.85	6.53	.32	12.16	12.49	-.33	.497	.050	.891	15.61
40.	15.10	14.92	.19	6.56	6.47	.09	12.36	12.79	-.43	.529	.102	.909	16.69
41.	15.79	15.47	.32	6.65	6.46	.18	12.96	13.19	-.23	.536	.138	.910	17.58
42.	16.38	16.03	.35	6.69	6.47	.21	13.20	13.56	-.36	.555	.179	.918	18.65
43.	16.91	16.61	.30	6.53	6.35	.18	13.61	13.96	-.35	.576	.231	.928	20.14
44.	17.49	17.18	.30	6.27	6.12	.15	14.15	14.50	-.34	.589	.269	.939	21.08
45.	17.87	17.73	.14	5.99	5.90	.09	14.81	15.08	-.26	.583	.294	.946	23.78
46.	18.33	18.26	.08	5.87	5.76	.10	15.31	15.59	-.29	.566	.317	.954	25.75
47.	18.81	18.76	.05	5.78	5.62	.16	15.80	16.04	-.24	.598	.349	.960	28.16
48.	19.32	19.24	.07	5.46	5.40	.06	16.21	16.56	-.35	.603	.375	.966	31.00
49.	19.81	19.69	.13	5.22	5.11	.11	17.06	17.26	-.20	.575	.360	.970	33.48
50.	20.14	20.06	.08	4.92	4.73	.09	17.81	18.07	-.26	.518	.314	.975	36.14
51.	20.22	20.36	-.14	4.29	4.46	-.17	18.75	18.91	-.16	.422	.219	.977	36.84
52.	20.39	20.57	-.19	4.63	4.44	.19	19.57	19.73	-.16	.295	.082	.977	35.50
53.	20.40	20.71	-.30	4.37	4.39	-.02	20.38	20.49	-.11	.155	-.057	.977	35.19
54.	20.58	20.75	-.17	4.31	4.40	-.09	21.15	21.24	-.09	-.006	-.214	.978	34.90
55.	20.67	20.70	-.03	4.70	4.61	.09	21.94	21.94	.00	-.166	-.366	.978	33.98
56.	20.86	20.54	.31	4.80	4.77	.02	22.44	22.56	-.12	-.327	-.509	.980	33.50
57.	20.93	20.29	.65	4.88	4.84	.05	23.05	22.89	.16	-.452	-.612	.982	34.42
58.	21.10	19.97	1.13	4.97	4.93	-.05	23.55	22.82	.73	-.496	-.650	.982	33.80
59.	20.96	19.65	1.31	5.21	5.12	.10	23.76	22.32	1.44	-.427	-.605	.978	30.58
60.	18.21	19.38	-1.17	5.52	5.44	.08	20.34	21.66	-1.32	-.303	-.522	.971	24.71
61.	17.67	19.15	-1.48	6.07	5.98	.09	21.39	21.63	-.24	-.286	-.529	.964	23.46
62.	17.73	18.88	-1.15	6.76	6.48	.28	21.70	21.79	-.10	-.313	-.569	.959	21.20
63.	17.78	18.59	-.80	6.55	6.40	.15	21.64	21.47	.17	-.314	-.579	.959	20.88
64.	17.41	18.30	-.89	5.76	5.90	-.14	20.93	20.95	-.02	-.321	-.562	.964	22.06
65.	18.03	18.02	.02	5.38	5.40	-.03	20.85	20.53	.32	-.348	-.568	.969	23.69
66.	17.77	17.73	.04	4.91	5.06	-.15	20.28	20.16	.12	-.371	-.577	.972	24.32
67.	17.50	17.43	.07	4.85	4.91	-.06	19.97	19.86	.11	-.387	-.587	.974	24.06
68.	17.15	17.11	.05	4.89	4.99	-.10	19.81	19.72	.10	-.419	-.616	.975	23.78
69.	16.78	16.72	.06	5.19	5.26	-.06	19.76	19.74	.02	-.478	-.664	.972	22.90
70.	16.32	16.23	.09	5.65	5.69	-.04	20.02	19.93	.09	-.548	-.732	.971	19.27
71.	15.87	15.67	.20	6.19	6.27	-.08	20.16	19.63	.54	-.513	-.727	.961	16.26
72.	13.59	15.11	-1.52	6.77	6.88	-.12	20.31	19.20	1.11	-.446	-.718	.947	13.64
73.	14.58	14.50	.08	7.26	7.23	.03	20.26	19.25	1.00	-.517	-.764	.947	12.97
74.	13.78	13.80	-.02	7.11	7.24	-.13	19.64	18.77	.87	-.549	-.798	.947	12.56
75.	13.02	13.14	-.12	6.97	7.21	-.24	18.95	17.66	1.28	-.468	-.752	.932	11.24
76.	12.39	12.55	-.16	7.40	7.44	-.03	16.27	17.10	-.82	-.426	-.748	.919	10.44
77.	11.57	11.91	-.34	7.90	8.02	-.13	17.81	17.43	.38	-.510	-.809	.918	9.90
78.	11.24	11.16	.08	8.92	8.93	-.01	17.77	17.57	.20	-.524	-.841	.901	8.64
79.	10.50	10.43	.07	9.95	9.77	.18	16.98	16.95	.03	-.487	-.827	.859	7.04
80.	9.86	9.86	-.00	10.24	10.12	.12	16.12	16.03	.09	-.256	-.808	.746	6.28
81.	9.57	9.48	.09	10.05	9.96	.09	14.69	14.95	-.26	-.183	-.782	.755	5.98
82.	9.44	9.23	.21	9.54	9.86	-.32	13.83	14.36	-.53	-.139	-.771	.732	5.63
83.	9.39	9.01	.38	10.46	9.90	.56	14.70	14.30	.40	-.142	-.782	.728	5.68
84.	9.27	8.76	.52	9.43	9.39	.03	13.55	13.98	-.42	-.185	-.788	.781	5.84
85.	8.84	8.41	.43	8.75	8.64	.10	13.40	13.68	-.28	-.287	-.809	.786	6.28
86.	8.40	7.92	.49	8.30	8.48	-.17	13.39	13.90	-.51	-.437	-.859	.836	6.41
87.	8.08	7.25	.83	9.41	8.66	.75	14.10	13.96	.13	-.538	-.899	.862	6.16
88.	7.96	6.52	1.44	9.76	8.68	.09	12.46	13.21	-.74	-.500	-.904	.822	5.36
89.	5.53	6.03	-.50	9.42	9.07	.35	11.61	11.75	-.14	-.178	-.663	.650	4.21
90.	5.19	6.22	-1.04	10.30	10.10	.20	9.40	9.58	-.18	.398	-.881	.239	4.19

MONTH = 2 LATITUDE = 10

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	APT	RTO	RPO	DEPTH
22.	2.22	1.40	.82	1.58	1.68	-.09	3.20	2.73	.48	-.565	-.906	.862	6.20
23.	1.34	1.30	.04	1.15	1.27	-.11	1.76	2.03	-.27	-.263	-.789	.800	6.59
24.	1.28	1.26	.02	1.15	1.19	-.04	1.78	1.82	-.04	-.101	-.725	.758	6.68
25.	1.14	1.25	-.11	1.39	1.40	-.00	1.84	1.84	-.00	.037	-.733	.653	5.74
26.	1.14	1.29	-.16	1.67	1.61	.06	1.87	1.78	.09	.263	-.714	.488	5.35
27.	1.18	1.38	-.21	1.62	1.67	-.05	1.63	1.60	.03	.462	-.642	.383	6.11
28.	1.26	1.52	-.26	1.54	1.64	-.10	1.50	1.40	.10	.611	-.508	.371	7.76
29.	1.37	1.68	-.31	1.51	1.63	-.13	1.30	1.25	.05	.716	-.343	.410	9.80
30.	1.49	1.86	-.38	1.51	1.67	-.16	1.36	1.23	.14	.765	-.196	.482	11.79
31.	1.60	2.06	-.46	1.53	1.75	-.23	1.51	1.29	.22	.794	-.108	.552	12.95
32.	1.72	2.27	-.55	1.67	1.92	-.25	1.64	1.42	.21	.781	-.107	.537	13.06
33.	2.20	2.49	-.28	1.45	2.09	-.24	2.10	1.64	.47	.757	-.125	.553	12.76
34.	2.38	2.71	-.33	1.88	2.16	-.28	2.17	1.96	.21	.697	-.140	.612	12.37
35.	3.31	2.90	.41	1.94	2.16	-.22	3.01	2.44	.57	.570	-.208	.685	11.72
36.	3.22	3.05	.17	1.93	2.08	-.15	3.15	2.79	.36	.461	-.241	.751	11.67
37.	3.23	3.18	.06	1.82	1.96	-.14	3.11	2.91	.20	.436	-.196	.797	13.20
38.	3.34	3.29	.05	1.78	1.90	-.12	3.17	3.02	.15	.425	-.167	.821	14.14
39.	3.43	3.40	.03	1.86	1.96	-.10	3.32	3.16	.17	.406	-.184	.823	14.10
40.	3.55	3.50	.04	2.03	2.05	-.03	3.40	3.27	.13	.403	-.197	.818	14.13
41.	3.66	3.61	.05	2.02	2.09	-.07	3.46	3.40	.06	.388	-.202	.824	14.34
42.	3.80	3.71	.09	2.05	2.05	.00	3.69	3.55	.14	.354	-.207	.842	14.91
43.	3.63	3.80	-.17	1.88	1.98	-.10	3.70	3.64	.06	.342	-.188	.859	15.82
44.	3.79	3.89	-.10	1.95	2.01	-.05	3.79	3.75	.04	.328	-.196	.862	16.02
45.	4.03	3.97	.05	2.08	2.09	-.01	4.04	3.89	.15	.303	-.228	.859	15.77
46.	4.11	4.05	.06	2.09	2.12	-.03	4.00	3.95	.05	.310	-.219	.861	15.98
47.	4.16	4.14	.02	2.08	2.08	-.00	4.03	3.96	.06	.335	-.176	.869	16.70
48.	4.24	4.23	.01	1.97	1.99	-.02	4.01	3.99	.02	.349	-.130	.884	18.07
49.	4.40	4.31	.09	1.87	1.91	-.05	4.10	4.07	.03	.343	-.107	.897	19.23
50.	4.44	4.39	.05	1.88	2.03	-.14	4.21	4.18	.03	.335	-.133	.889	18.59
51.	4.55	4.48	.07	2.42	2.21	.21	4.28	4.27	.01	.338	-.164	.873	17.18
52.	4.63	4.57	.06	2.10	2.16	-.06	4.39	4.36	.03	.336	-.144	.884	17.80
53.	4.63	4.66	-.03	2.00	1.94	.06	4.40	4.42	-.02	.339	-.093	.910	20.08
54.	4.74	4.73	.00	1.65	1.72	-.06	4.52	4.53	-.01	.294	-.071	.932	22.72
55.	4.74	4.79	-.04	1.54	1.62	-.07	4.73	4.73	-.00	.203	-.136	.942	23.73
56.	4.80	4.82	-.02	1.71	1.73	-.02	4.98	4.92	.06	.120	-.233	.937	21.71
57.	4.85	4.85	-.00	1.93	1.88	.05	5.04	4.94	.10	.146	-.238	.926	19.81
58.	4.63	4.90	-.27	1.94	1.97	-.04	4.76	4.80	-.04	.253	-.153	.917	19.32
59.	4.66	4.98	-.32	2.03	2.10	-.07	4.77	4.76	.00	.311	-.116	.908	18.45
60.	4.80	5.07	-.27	2.29	2.33	-.04	5.03	4.92	.11	.295	-.170	.892	16.67
61.	4.89	5.16	-.28	2.51	2.59	-.08	5.26	5.16	.11	.254	-.249	.874	14.76
62.	5.15	5.25	-.10	2.80	2.84	-.04	5.64	5.39	.26	.221	-.311	.858	13.40
63.	5.36	5.35	.00	2.93	2.99	-.06	5.67	5.44	.23	.251	-.303	.846	12.77
64.	5.42	5.48	-.06	2.99	3.08	-.09	5.41	5.33	.08	.330	-.238	.839	12.82
65.	5.65	5.65	-.00	3.09	3.20	-.11	5.41	5.29	.12	.394	-.184	.831	12.83
66.	5.82	5.86	-.04	3.34	3.46	-.12	5.45	5.41	.04	.420	-.185	.814	12.23
67.	6.18	6.09	.09	3.60	3.78	-.02	5.81	5.66	.15	.420	-.217	.795	11.42
68.	6.41	6.34	.06	3.92	3.98	-.05	6.02	5.94	.08	.412	-.230	.792	11.12
69.	6.63	6.60	.03	4.03	4.13	-.10	6.28	6.27	.01	.391	-.246	.795	10.86
70.	6.92	6.85	.06	4.34	4.38	-.04	6.80	6.76	.04	.341	-.302	.793	10.24
71.	7.09	7.08	.01	4.44	4.61	-.03	7.40	7.32	.08	.279	-.367	.795	9.71
72.	7.35	7.26	.09	4.69	4.68	.01	7.88	7.81	.07	.199	-.414	.810	9.54
73.	7.48	7.38	.10	4.60	4.69	-.09	8.24	8.26	-.01	.121	-.460	.826	9.46
74.	7.58	7.46	.12	4.84	4.88	-.04	8.73	8.61	.12	.072	-.504	.825	9.07
75.	7.65	7.54	.11	5.23	5.16	.07	8.74	8.65	.09	.110	-.500	.806	8.65
76.	7.66	7.69	-.03	5.37	5.34	.04	8.32	8.28	.03	.232	-.429	.779	8.63
77.	7.99	7.98	.01	5.43	5.50	-.07	7.68	7.81	-.13	.375	-.322	.757	9.06
78.	8.38	8.39	-.01	5.83	5.62	.21	7.50	7.56	-.06	.475	-.216	.755	9.78
79.	8.90	8.87	.03	5.43	5.45	-.02	7.49	7.61	-.12	.521	-.108	.792	10.94
80.	8.10	9.35	-1.25	5.07	5.23	-.16	8.02	8.06	-.04	.509	-.059	.829	11.85
81.	9.75	9.79	-.04	5.13	5.33	-.20	8.11	8.85	.26	.440	-.115	.841	11.62
82.	10.02	10.15	-.13	5.56	5.65	-.09	9.90	10.00	-.11	.303	-.257	.843	10.64
83.	22.08	10.40	11.68	5.49	5.92	-.43	10.22	10.94	-.72	.191	-.360	.847	10.10
84.	10.65	10.64	.01	6.00	6.08	-.08	10.56	10.76	-.19	.266	-.302	.838	10.20
85.	11.08	11.02	.06	6.33	6.52	-.19	10.15	10.27	-.12	.408	-.197	.815	10.41
86.	11.53	11.58	-.05	7.43	7.34	.10	10.20	10.29	-.09	.483	-.170	.781	10.08
87.	12.20	12.26	-.06	8.16	7.93	.23	10.60	10.69	-.09	.508	-.159	.769	10.03
88.	12.96	12.98	-.02	7.95	8.17	-.22	11.39	11.41	-.02	.495	-.153	.783	10.22
89.	13.72	13.73	-.01	8.60	8.96	-.35	12.30	12.23	.07	.485	-.186	.768	9.80
90.	14.67	14.61	.06	10.64	10.65	-.00	12.97	12.96	.01	.510	-.246	.708	8.92

MONTH = 2 LATITUDE = 30

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	1.17	1.65	-.48	1.14	1.18	-.04	1.69	1.62	.06	.381	-.339	.740	9.44
23.	1.49	1.72	-.23	1.49	1.45	.04	2.20	1.92	.28	.274	-.509	.648	7.76
24.	1.52	1.79	-.26	1.44	1.52	-.08	1.97	1.98	-.01	.291	-.506	.678	7.79
25.	1.76	1.86	-.09	1.47	1.57	-.10	2.16	2.06	.10	.290	-.504	.681	7.90
26.	1.96	1.93	-.07	1.66	1.71	-.05	2.30	2.19	.12	.281	-.534	.661	7.87
27.	2.00	2.01	-.01	1.78	1.86	-.08	2.36	2.25	.11	.327	-.534	.694	7.45
28.	2.03	2.12	-.09	1.94	1.99	-.05	2.32	2.28	.04	.385	-.516	.592	7.55
29.	2.19	2.25	-.06	2.03	2.09	-.05	2.46	2.31	.15	.433	-.482	.581	7.90
30.	2.30	2.39	-.09	2.06	2.15	-.10	2.33	2.30	.03	.492	-.424	.580	8.52
31.	2.46	2.56	-.10	2.19	2.20	-.02	2.41	2.35	.06	.523	-.369	.599	9.17
32.	2.76	2.73	.03	2.10	2.24	-.13	2.56	2.46	.11	.525	-.326	.643	9.75
33.	2.70	2.90	-.20	2.28	2.35	-.07	2.62	2.65	-.02	.509	-.328	.647	9.88
34.	2.95	3.08	-.12	2.43	2.49	-.06	3.14	2.92	.21	.465	-.363	.656	9.63
35.	3.19	3.24	-.05	2.50	2.60	-.10	3.21	3.15	.06	.438	-.377	.668	9.68
36.	3.54	3.40	.13	2.66	2.68	-.02	3.45	3.30	.15	.433	-.366	.680	9.97
37.	3.42	3.57	-.15	2.62	2.71	-.08	3.46	3.40	.06	.440	-.335	.699	10.52
38.	3.56	3.74	-.17	2.66	2.72	-.06	3.60	3.51	.09	.446	-.301	.719	11.13
39.	3.73	3.91	-.17	2.66	2.74	-.08	3.76	3.59	.17	.460	-.262	.736	11.80
40.	3.89	4.09	-.20	2.67	2.76	-.09	3.69	3.59	.10	.505	-.194	.749	12.75
41.	4.04	4.23	-.24	2.70	2.78	-.08	3.71	3.65	.06	.534	-.135	.766	13.65
42.	4.25	4.47	-.22	2.67	2.75	-.08	4.02	3.84	.19	.522	-.107	.792	14.48
43.	4.47	4.66	-.19	2.57	2.68	-.11	4.18	4.01	.18	.513	-.072	.819	15.53
44.	4.60	4.83	-.23	2.54	2.64	-.11	4.28	4.12	.16	.524	-.026	.838	16.67
45.	4.80	5.01	-.21	2.55	2.67	-.12	4.40	4.24	.17	.534	.002	.847	17.45
46.	4.95	5.20	-.25	2.65	2.71	-.05	4.58	4.38	.20	.539	.021	.854	17.88
47.	5.09	5.38	-.29	2.56	2.66	-.10	4.73	4.52	.21	.546	.062	.870	19.04
48.	5.25	5.56	-.32	2.43	2.52	-.09	4.89	4.68	.20	.548	.112	.893	20.75
49.	5.76	5.73	.03	2.25	2.40	-.16	5.15	4.91	.24	.529	.127	.909	22.19
50.	5.95	5.89	.07	2.29	2.43	-.14	5.38	5.17	.21	.485	.083	.912	22.00
51.	5.91	6.03	-.12	2.50	2.57	-.07	5.69	5.41	.28	.443	.019	.905	21.54
52.	6.12	6.18	-.06	2.61	2.68	-.07	5.79	5.56	.23	.436	.002	.901	20.00
53.	6.31	6.33	-.02	2.64	2.75	-.11	5.85	5.65	.20	.452	.020	.901	20.10
54.	6.49	6.50	-.01	2.76	2.85	-.09	5.94	5.78	.16	.446	.019	.898	19.85
55.	6.66	6.66	-.00	2.91	2.99	-.08	6.18	6.01	.17	.431	-.020	.894	19.68
56.	6.92	6.83	.10	3.05	3.15	-.10	6.50	6.30	.20	.391	-.076	.888	17.92
57.	7.14	6.99	.15	3.26	3.32	-.06	6.74	6.55	.19	.364	-.118	.882	17.02
58.	7.29	7.15	.13	3.39	3.41	-.02	6.89	6.75	.15	.354	-.131	.881	16.60
59.	7.52	7.31	.21	3.33	3.39	-.06	7.04	6.95	.09	.336	-.136	.888	16.74
60.	7.87	7.46	.42	3.31	3.39	-.08	7.30	7.26	.04	.285	-.175	.894	16.58
61.	8.14	7.57	.57	3.48	3.48	-.00	7.68	7.67	.02	.202	-.255	.896	15.78
62.	8.37	7.66	.71	3.64	3.66	-.02	8.06	7.99	.06	.146	-.318	.891	14.86
63.	8.13	7.75	.38	4.00	3.89	.11	7.93	8.01	-.07	.184	-.308	.878	14.00
64.	7.95	7.85	.10	4.17	3.89	.28	7.63	8.13	-.50	.175	-.310	.882	13.97
65.	7.78	7.91	-.13	3.55	3.73	-.18	8.71	8.62	.09	.036	-.399	.902	14.30
66.	7.78	7.91	-.13	3.94	3.90	.04	8.77	8.92	-.16	-.029	-.463	.899	13.47
67.	7.84	7.91	-.07	4.44	4.27	.18	8.87	8.93	-.07	.013	-.466	.879	12.15
68.	7.88	7.92	-.05	4.46	4.37	.09	8.79	8.92	-.13	.034	-.460	.872	11.80
69.	7.95	7.94	.01	4.29	4.31	-.03	8.87	8.99	-.12	.013	-.469	.877	11.80
70.	8.00	7.93	.08	4.38	4.47	-.09	9.12	9.29	-.17	-.049	-.523	.877	11.27
71.	7.98	7.87	.11	4.99	4.93	.06	9.76	9.71	.04	-.105	-.593	.863	10.10
72.	8.02	7.78	.24	5.53	5.44	.10	9.87	9.91	-.04	-.096	-.624	.838	8.97
73.	8.06	7.72	.34	5.93	5.85	.08	9.70	9.88	-.18	-.042	-.625	.806	8.19
74.	8.12	7.72	.41	6.38	6.31	.07	9.68	9.83	-.15	.028	-.620	.767	7.59
75.	8.27	7.79	.48	7.07	6.72	.35	9.51	9.69	-.18	.115	-.601	.725	7.14
76.	8.03	7.98	.05	7.05	6.86	.19	9.17	9.36	-.19	.211	-.553	.698	7.21
77.	8.38	8.27	.11	7.00	6.73	.27	8.67	8.95	-.28	.302	-.473	.697	7.73
78.	8.27	8.62	-.35	6.53	6.44	.09	8.45	8.81	-.37	.344	-.395	.727	8.51
79.	8.76	8.98	-.22	6.23	6.15	.07	9.02	9.03	-.01	.335	-.349	.766	9.16
80.	9.58	9.31	-.73	5.94	6.09	-.15	9.21	9.50	-.28	.296	-.351	.791	9.49
81.	9.48	9.59	-.11	6.31	6.29	.02	10.45	10.15	.30	.236	-.397	.798	9.13
82.	9.50	9.85	-.35	6.49	6.49	.01	10.69	10.46	.24	.233	-.401	.797	9.00
83.	9.72	10.15	-.43	6.40	6.70	-.30	10.39	10.34	.05	.301	-.352	.786	9.16
84.	9.94	10.58	-.64	7.12	6.99	.13	10.51	10.03	.49	.406	-.264	.771	9.51
85.	11.09	11.14	-.05	6.72	7.01	-.29	9.57	9.63	-.06	.516	-.131	.782	10.59
86.	11.81	11.80	.01	6.77	7.06	-.29	9.90	9.90	-.00	.547	-.061	.802	11.34
87.	12.64	12.42	.22	7.26	6.97	.29	11.29	11.13	.16	.455	-.118	.838	11.30
88.	13.17	12.86	.31	5.99	6.96	-.96	13.05	12.91	.14	.263	-.277	.854	10.77
89.	13.66	13.11	.56	8.14	8.42	-.27	15.09	14.76	.33	.112	-.471	.824	8.76
90.	13.71	13.31	.40	11.11	11.14	-.03	16.35	16.30	.05	.120	-.586	.775	6.69

MONTH = 2 LATITUDE = 50

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RRD	DEPTH
22.	.96	2.50	-1.55	1.10	1.51	-.41	1.34	1.23	.11	.930	.665	.893	28.78
23.	2.57	2.78	-.21	2.97	2.99	-.02	3.22	2.18	1.03	.716	-.456	.295	8.48
24.	2.74	3.15	-.41	3.00	3.46	-.47	2.99	2.45	.55	.730	-.475	.255	8.46
25.	2.95	3.55	-.60	2.99	3.46	-.47	3.89	2.59	.30	.726	-.340	.399	9.48
26.	4.40	3.93	.48	3.08	3.43	-.35	3.78	3.05	.72	.663	-.271	.541	9.71
27.	4.60	4.27	.33	3.00	3.36	-.36	3.88	3.43	.44	.618	-.210	.639	10.27
28.	4.87	4.59	.28	3.12	3.31	-.20	3.95	3.65	.30	.615	-.135	.699	11.21
29.	5.19	4.91	.28	3.08	3.30	-.22	4.16	3.85	.30	.622	-.064	.742	12.13
30.	5.48	5.24	.24	3.21	3.29	-.08	4.15	4.03	.12	.638	.013	.778	13.25
31.	5.83	5.56	.27	3.14	3.26	-.12	4.41	4.34	.07	.626	.051	.811	14.09
32.	6.15	5.86	.30	3.17	3.29	-.12	4.93	4.83	.09	.566	.083	.827	14.31
33.	6.46	6.14	.32	3.46	3.43	.03	5.43	5.15	.28	.546	-.015	.830	14.92
34.	6.29	6.45	-.16	3.48	3.52	-.04	5.03	5.17	-.13	.601	.068	.839	15.15
35.	6.80	6.78	.03	3.56	3.61	-.05	5.31	5.32	-.01	.627	.120	.848	16.07
36.	7.07	7.11	-.04	3.76	3.71	.05	5.74	5.68	.06	.607	.107	.855	16.31
37.	7.31	7.44	-.13	3.69	3.73	-.05	6.07	6.02	.05	.595	.114	.867	16.97
38.	7.58	7.76	-.18	3.71	3.73	-.02	6.37	6.33	.04	.588	.132	.879	17.85
39.	7.85	8.07	-.22	3.68	3.76	-.08	6.73	6.65	.08	.578	.136	.887	18.47
40.	8.07	8.38	-.31	3.82	3.89	-.07	7.05	6.97	.08	.565	.121	.888	18.57
41.	8.69	8.69	-.00	4.04	4.05	-.01	7.42	7.30	.11	.549	.099	.885	18.41
42.	9.05	9.00	.05	4.09	4.11	-.02	7.72	7.69	.03	.523	.078	.890	18.65
43.	9.35	9.28	.07	4.04	4.07	-.03	8.25	8.16	.09	.478	.044	.899	19.06
44.	9.60	9.53	.07	3.97	4.01	-.04	8.69	8.57	.12	.436	.017	.907	19.63
45.	9.75	9.75	-.00	3.95	4.00	-.05	8.89	8.92	-.03	.406	-.006	.912	20.05
46.	9.90	9.95	-.05	4.05	4.00	.05	9.39	9.29	.10	.361	-.044	.916	20.14
47.	10.04	10.14	-.09	3.89	3.99	-.09	9.67	9.57	.10	.333	-.054	.923	20.93
48.	10.21	10.30	-.09	3.67	3.69	-.02	9.74	9.69	.05	.340	-.019	.934	22.60
49.	10.39	10.47	-.08	3.45	3.52	-.06	9.83	9.78	.05	.356	.022	.942	24.35
50.	10.53	10.63	-.09	3.41	3.45	-.04	9.96	9.96	.01	.351	.027	.946	25.30
51.	10.75	10.78	-.03	3.45	3.50	-.04	10.32	10.25	.07	.309	-.016	.946	24.86
52.	10.94	10.91	.03	3.58	3.62	-.04	10.65	10.59	.06	.252	-.082	.944	23.74
53.	11.05	11.02	.03	3.80	3.81	-.01	10.99	10.92	.06	.198	-.149	.940	22.48
54.	11.16	11.11	.05	3.97	4.01	-.04	11.27	11.19	.08	.161	-.198	.935	21.30
55.	11.28	11.20	.08	4.23	4.16	.07	11.39	11.30	.09	.160	-.209	.932	20.66
56.	11.16	11.29	-.13	4.17	4.17	.01	11.29	11.32	-.03	.177	-.191	.932	20.63
57.	11.29	11.38	-.09	4.05	4.01	.03	11.43	11.39	.04	.175	-.178	.938	21.43
58.	11.35	11.47	-.12	3.72	3.75	-.03	11.58	11.54	.04	.145	-.181	.947	22.69
59.	11.47	11.55	-.08	3.45	3.53	-.08	11.78	11.43	.34	.187	-.121	.953	24.25
60.	11.59	11.66	-.06	3.43	3.54	-.11	10.85	11.34	-.49	.241	-.065	.953	24.51
61.	11.22	11.74	-.53	3.76	3.77	-.02	12.19	11.94	.25	.103	-.209	.949	22.45
62.	11.27	11.76	-.49	4.00	4.06	-.05	13.00	12.57	.43	-.033	-.334	.947	20.63
63.	11.32	11.74	-.42	4.24	4.28	-.04	12.83	12.66	.17	-.040	-.375	.941	19.38
64.	11.51	11.72	-.21	4.33	4.41	-.08	13.92	12.68	.24	-.039	-.383	.938	18.62
65.	11.82	11.68	.14	4.39	4.46	-.07	13.06	12.77	.29	-.065	-.409	.937	18.21
66.	11.77	11.64	.14	4.42	4.54	-.12	12.99	12.83	.16	-.082	-.428	.936	17.62
67.	11.70	11.57	.13	4.67	4.66	.01	13.05	12.90	.15	-.100	-.451	.933	16.96
68.	11.61	11.49	.12	4.67	4.69	-.02	13.09	12.99	.10	-.135	-.481	.934	16.63
69.	11.53	11.38	.16	4.62	4.68	-.07	13.15	13.10	.05	-.190	-.523	.936	16.52
70.	11.41	11.22	.19	4.72	4.87	-.15	13.31	13.28	.02	-.245	-.574	.935	15.73
71.	11.27	11.02	.25	5.37	5.37	-.01	13.50	13.47	.03	-.262	-.614	.923	13.94
72.	9.68	10.81	-1.12	5.99	6.02	-.03	13.69	13.55	.14	-.236	-.632	.902	12.01
73.	10.99	10.80	.38	6.57	6.57	-.00	13.68	13.53	.15	-.198	-.641	.879	10.50
74.	10.82	10.40	.41	6.93	7.01	-.08	13.59	13.50	.09	-.170	-.650	.859	9.61
75.	10.73	10.28	.45	7.45	7.32	.13	13.44	12.97	.48	-.059	-.612	.826	8.93
76.	10.39	10.28	.10	7.47	7.45	.02	11.39	12.26	-.87	.071	-.548	.795	8.71
77.	10.33	10.36	-.03	7.52	7.43	.09	12.66	12.37	.29	.063	-.549	.800	8.75
78.	10.22	10.41	-.19	7.34	7.33	.00	12.59	12.59	-.01	.024	-.563	.813	8.85
79.	10.30	10.46	-.16	7.22	7.31	-.09	12.42	12.40	.03	.060	-.539	.808	8.90
80.	10.29	10.56	-.27	7.45	7.49	-.04	12.17	12.34	-.17	.096	-.525	.797	8.75
81.	10.64	10.68	-.04	7.73	7.63	.10	12.77	12.51	.26	.097	-.528	.794	8.60
82.	10.60	10.80	-.20	7.45	7.65	-.20	12.59	12.60	-.01	.098	-.523	.797	8.64
83.	10.66	10.94	-.28	7.75	7.74	.01	12.82	12.59	.23	.125	-.507	.792	8.63
84.	10.72	11.14	-.42	7.71	7.55	.16	12.60	12.24	.36	.186	-.448	.795	9.05
85.	11.33	11.40	-.07	6.65	6.97	-.32	11.57	11.75	-.19	.254	-.347	.819	10.14
86.	11.68	11.68	-.00	6.45	6.82	-.36	12.02	12.06	-.04	.235	-.337	.835	10.52
87.	12.15	11.88	.27	7.31	6.98	.33	13.38	13.11	.27	.109	-.434	.868	10.17
88.	12.45	11.91	.54	6.52	7.32	-.80	14.29	14.33	-.04	-.056	-.558	.860	9.68
89.	12.13	11.81	.32	8.75	8.86	-.11	15.72	15.39	.33	-.091	-.645	.820	7.91
90.	11.67	11.79	-.12	11.37	11.36	.01	15.93	15.95	-.02	.051	-.675	.763	6.14

MONTH = 2 LATITUDE = 70
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	3.37	2.66	.71	2.69	2.65	.04	2.58	2.61	-.04	.517	-.489	.494	7.38
23.	3.69	2.91	.78	3.09	3.00	.09	2.59	2.68	-.09	.589	-.480	.426	7.51
24.	4.11	3.24	.87	3.64	3.45	.19	2.59	2.75	-.15	.664	-.472	.346	7.87
25.	4.66	3.66	1.00	4.32	4.08	.24	2.62	2.84	-.22	.735	-.468	.233	8.30
26.	5.33	4.20	1.13	5.49	4.73	.76	2.75	3.04	-.29	.774	-.485	.178	8.70
27.	5.84	4.79	1.05	5.64	5.06	.58	3.05	3.54	-.49	.744	-.424	.200	8.91
28.	6.26	5.37	.89	5.96	5.30	.66	4.02	4.36	-.33	.666	-.395	.492	8.55
29.	6.71	5.92	.79	6.43	5.63	.80	4.69	5.14	-.45	.605	-.399	.489	8.34
30.	7.10	6.44	.66	6.67	5.83	.84	5.22	5.87	-.65	.546	-.395	.554	8.37
31.	7.46	6.89	.57	6.51	5.81	.70	6.19	6.73	-.53	.449	-.403	.636	8.43
32.	7.75	7.24	.50	6.36	5.85	.51	6.91	7.67	-.76	.329	-.452	.694	8.37
33.	7.92	7.52	.40	6.86	6.02	.84	8.05	8.28	-.22	.269	-.483	.714	9.32
34.	7.82	7.78	.04	6.52	5.98	.54	7.44	8.29	-.85	.297	-.442	.725	8.78
35.	8.25	8.07	.18	6.23	5.78	.45	7.83	8.26	-.42	.325	-.382	.700	9.55
36.	8.50	8.36	.14	5.96	5.67	.29	7.82	8.35	-.53	.341	-.338	.770	10.19
37.	8.70	8.68	.02	6.05	5.72	.33	8.08	8.42	-.34	.374	-.294	.776	10.67
38.	8.98	9.03	-.05	6.12	5.85	.27	8.06	8.43	-.37	.423	-.241	.777	11.16
39.	9.43	9.44	-.00	6.24	6.00	.24	8.10	8.41	-.31	.480	-.175	.779	11.80
40.	9.83	9.90	-.07	6.37	6.19	.18	8.18	8.51	-.33	.522	-.120	.784	12.46
41.	10.55	10.39	.15	6.57	6.31	.26	8.56	8.84	-.28	.531	-.088	.797	13.04
42.	11.22	10.88	.34	6.43	6.24	.19	9.14	9.30	-.17	.521	-.061	.820	13.83
43.	11.72	11.35	.36	6.19	6.06	.13	9.46	9.72	-.26	.517	-.020	.846	14.92
44.	12.11	11.80	.31	6.08	5.93	.15	9.87	10.11	-.25	.516	.016	.865	15.98
45.	12.53	12.24	.29	6.01	5.83	.18	10.26	10.58	-.32	.504	.031	.879	16.85
46.	13.02	12.64	.38	5.86	5.73	.13	10.88	11.18	-.31	.466	.014	.891	17.44
47.	13.37	13.00	.37	5.82	5.61	.20	11.61	11.85	-.24	.412	-.022	.902	17.92
48.	13.70	13.29	.41	5.57	5.45	.12	12.11	12.45	-.35	.355	-.059	.913	18.57
49.	14.15	13.56	.59	5.44	5.89	-.45	12.71	13.03	-.32	.305	-.135	.902	17.32
50.	14.55	13.82	.73	7.81	7.08	.73	13.19	13.60	-.42	.287	-.229	.867	14.71
51.	14.84	14.11	.73	8.16	7.84	.32	13.76	14.19	-.42	.269	-.287	.846	13.40
52.	15.05	14.38	.67	8.32	8.02	.30	14.27	14.71	-.44	.238	-.313	.848	13.35
53.	15.05	14.65	.41	8.45	8.42	.04	14.61	15.17	-.57	.223	-.339	.841	12.96
54.	15.19	14.91	.29	9.69	9.05	.64	15.19	15.73	-.54	.200	-.377	.827	12.23
55.	15.41	15.15	.26	9.69	9.47	.22	15.86	16.37	-.51	.179	-.413	.822	11.85
56.	15.46	15.37	.08	10.22	9.82	.39	16.39	16.91	-.52	.155	-.440	.819	11.45
57.	15.44	15.60	-.16	10.62	10.28	.33	16.76	17.22	-.45	.164	-.449	.808	11.03
58.	15.32	15.86	-.54	11.06	10.79	.27	16.85	17.38	-.52	.193	-.445	.793	10.65
59.	15.51	16.22	-.70	11.62	11.40	.22	17.26	17.25	.01	.257	-.419	.770	10.38
60.	15.45	16.61	-1.17	12.19	10.25	1.94	16.36	17.08	-.72	.262	-.345	.815	11.80
61.	15.50	16.87	-1.38	5.42	7.17	-1.75	17.74	17.44	.30	.131	-.284	.913	16.46
62.	15.63	16.95	-1.32	5.68	5.75	-.07	18.15	17.79	.36	.019	-.305	.946	20.28
63.	15.77	16.98	-1.21	5.87	5.91	-.04	18.20	17.67	.53	.059	-.282	.943	19.53
64.	15.79	17.02	-1.23	5.65	5.72	-.07	17.99	17.75	.24	.038	-.286	.947	20.05
65.	17.32	17.00	.32	5.01	5.26	-.25	19.24	18.20	1.04	-.080	-.364	.958	21.65
66.	17.17	16.91	.26	4.70	4.92	-.22	18.89	18.39	.50	-.169	-.423	.965	22.87
67.	17.01	16.77	.24	4.72	4.82	-.10	18.77	18.34	.42	-.197	-.443	.966	23.17
68.	16.80	16.61	.19	4.72	4.85	-.14	18.70	18.39	.32	-.239	-.480	.967	22.80
69.	16.86	16.41	.46	4.93	5.02	-.09	18.72	18.53	.19	-.298	-.535	.966	21.94
70.	16.28	16.13	.14	5.26	5.36	-.10	18.96	18.78	.18	-.369	-.602	.964	20.58
71.	15.99	15.81	.18	5.41	5.48	-.07	19.14	18.78	.36	-.368	-.622	.957	18.20
72.	14.31	15.46	-1.15	6.38	6.46	-.07	19.33	18.67	.65	-.349	-.628	.946	15.95
73.	15.17	15.06	.10	6.86	6.81	.05	19.35	18.86	.49	-.403	-.682	.944	15.08
74.	14.66	14.58	.08	6.80	6.88	-.08	19.02	18.87	.15	-.478	-.735	.947	14.96
75.	14.16	14.08	.08	6.88	6.98	-.10	18.64	18.14	.50	-.418	-.709	.937	13.70
76.	13.67	13.65	.02	7.22	7.26	-.04	16.68	17.41	-.74	-.324	-.671	.919	12.22
77.	13.10	13.23	-.13	7.58	7.69	-.11	17.97	17.57	.41	-.366	-.714	.913	11.31
78.	12.79	12.73	.06	8.26	8.30	-.04	17.93	17.72	.21	-.394	-.751	.903	10.16
79.	12.29	12.23	.06	8.98	8.89	.09	17.31	17.26	.05	-.319	-.741	.873	8.79
80.	11.77	11.81	-.04	9.26	9.19	.06	16.68	16.63	.05	-.243	-.725	.844	8.02
81.	11.53	11.48	.05	9.19	9.14	.05	15.99	15.97	.02	-.189	-.708	.827	7.76
82.	11.31	11.21	.10	8.88	9.14	-.26	15.32	15.58	-.26	-.163	-.704	.816	7.54
83.	11.19	10.97	.23	9.60	9.21	.39	15.70	15.43	.26	-.164	-.713	.808	7.31
84.	11.00	10.71	.29	8.85	8.85	-.00	14.89	15.05	-.16	-.176	-.713	.815	7.45
85.	10.63	10.44	.19	8.28	8.36	-.08	14.42	14.70	-.28	-.214	-.721	.832	7.76
86.	10.34	10.09	.24	8.29	8.44	-.15	14.65	14.90	-.25	-.286	-.761	.840	7.60
87.	10.01	9.65	.36	9.25	8.75	.51	15.28	15.09	.18	-.345	-.800	.839	7.15
88.	9.88	9.15	.72	8.70	8.85	-.16	14.33	14.73	-.40	-.338	-.811	.825	6.69
89.	8.47	8.77	-.30	9.46	9.43	.03	13.91	13.95	-.04	-.174	-.785	.746	5.76
90.	7.98	8.77	-.80	10.80	10.70	.10	12.60	12.72	-.12	.159	-.732	.556	5.05

MONTH = 2 LATITUDE = 90

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	3.85	2.38	1.47	3.04	2.97	.07	2.87	2.94	-.07	.413	-.675	.394	5.34
23.	4.00	2.63	1.36	3.13	3.06	.07	2.34	2.65	-.30	.577	-.584	.326	6.25
24.	4.48	2.98	1.49	3.83	3.47	.36	2.45	2.66	-.22	.668	-.553	.250	6.74
25.	5.11	3.47	1.64	4.69	4.17	.51	2.53	2.74	-.21	.758	-.564	.111	7.28
26.	5.60	4.10	1.50	6.08	4.89	1.20	2.31	2.79	-.48	.821	-.544	.033	8.34
27.	6.20	4.82	1.38	6.28	5.26	1.02	2.71	3.37	-.66	.780	-.446	.212	8.31
28.	6.66	5.50	1.16	6.64	5.54	1.10	4.05	4.49	-.44	.670	-.413	.400	7.58
29.	7.14	6.13	1.01	7.21	5.94	1.27	4.85	5.51	-.66	.584	-.428	.484	7.22
30.	7.56	6.72	.85	7.48	6.20	1.28	5.54	6.42	-.88	.508	-.434	.565	7.14
31.	7.92	7.21	.72	7.30	6.21	1.09	6.68	7.44	-.76	.393	-.454	.681	7.13
32.	8.21	7.56	.65	7.11	6.28	.83	7.46	8.51	-1.05	.250	-.512	.701	7.03
33.	8.35	7.80	.55	7.66	6.48	1.18	8.76	9.22	-.46	.177	-.553	.722	6.88
34.	8.27	8.02	.25	7.28	6.45	.84	8.14	9.26	-1.12	.194	-.528	.731	7.12
35.	8.66	8.25	.42	6.90	6.21	.69	8.56	9.18	-.62	.218	-.481	.751	7.65
36.	8.91	8.50	.41	6.53	6.07	.46	9.40	9.19	-.79	.239	-.440	.767	8.15
37.	9.09	8.78	.31	6.65	6.12	.53	9.64	9.18	-.53	.242	-.397	.768	8.49
38.	9.37	9.12	.25	6.74	6.28	.46	9.54	9.11	-.58	.345	-.343	.763	8.84
39.	9.87	9.55	.32	6.89	6.45	.44	9.48	9.01	-.53	.414	-.272	.760	9.35
40.	10.28	10.05	.23	7.02	6.64	.38	9.51	9.05	-.55	.473	-.208	.763	9.96
41.	11.03	10.61	.42	7.22	6.76	.46	9.88	9.38	-.51	.489	-.167	.778	10.58
42.	11.71	11.16	.56	7.05	6.68	.37	9.53	9.86	-.33	.482	-.132	.805	11.38
43.	12.25	11.69	.56	6.78	6.48	.29	9.75	10.23	-.48	.488	-.076	.833	12.51
44.	12.68	12.21	.47	6.65	6.35	.30	10.10	10.57	-.48	.500	-.023	.854	13.64
45.	13.16	12.71	.45	6.58	6.25	.33	10.53	11.04	-.51	.495	.004	.871	14.60
46.	13.74	13.18	.56	6.38	6.15	.23	11.16	11.70	-.52	.460	-.007	.885	15.56
47.	14.14	13.58	.56	6.47	6.04	.35	12.05	12.46	-.42	.400	-.049	.896	16.36
48.	14.51	13.90	.60	6.10	5.89	.21	12.67	13.20	-.53	.329	-.100	.907	17.19
49.	15.02	14.17	.86	5.98	6.47	-.49	13.41	13.90	-.49	.269	-.191	.894	16.16
50.	15.49	14.43	1.06	8.95	7.97	.98	14.00	14.58	-.58	.257	-.298	.849	13.77
51.	15.71	14.72	.99	9.44	8.93	.51	14.59	15.22	-.63	.246	-.349	.823	12.48
52.	15.91	15.01	.90	9.64	9.15	.49	15.12	15.76	-.64	.221	-.370	.824	12.26
53.	15.84	15.29	.56	9.76	9.61	.16	15.41	16.22	-.81	.214	-.391	.816	11.87
54.	15.98	15.58	.40	11.27	10.35	.92	15.03	16.82	-.79	.207	-.424	.798	11.16
55.	16.20	15.86	.34	11.26	10.85	.41	16.79	17.56	-.77	.177	-.459	.784	10.77
56.	16.25	16.11	.14	11.93	11.30	.63	17.41	18.19	-.78	.155	-.484	.790	10.31
57.	16.18	16.38	-.20	12.47	11.91	.56	17.81	18.53	-.72	.171	-.492	.774	9.85
58.	16.00	16.71	-.72	13.09	12.60	.49	17.90	18.69	-.79	.211	-.486	.752	9.45
59.	16.17	17.18	-1.01	13.87	13.44	.43	18.35	18.55	-.19	.286	-.460	.720	9.18
60.	16.04	17.72	-1.67	14.60	12.03	2.57	17.46	18.32	-.86	.288	-.378	.778	10.45
61.	16.27	18.07	-1.79	5.93	8.12	-2.19	18.88	18.59	.30	.160	-.281	.902	14.96
62.	16.48	18.20	-1.72	6.18	6.27	-.10	19.21	18.84	.37	.069	-.266	.903	14.89
63.	16.69	18.29	-1.60	6.39	6.46	-.07	19.39	18.65	.73	.120	-.228	.939	14.11
64.	16.73	18.41	-1.67	6.10	6.19	-.09	19.13	18.79	.34	.106	-.225	.945	18.54
65.	18.80	18.45	.35	5.20	5.55	-.36	20.89	19.41	1.48	-.028	-.312	.958	20.13
66.	18.63	18.38	.25	4.79	5.07	-.28	20.48	19.71	.77	-.135	-.383	.967	21.75
67.	18.45	18.25	.20	4.73	4.90	-.16	20.32	19.67	.65	-.167	-.404	.969	22.01
68.	18.21	18.09	.12	4.73	4.93	-.20	20.23	19.72	.51	-.210	-.442	.970	21.43
69.	18.30	17.88	.42	5.03	5.15	-.12	20.24	19.89	.35	-.269	-.501	.968	20.14
70.	17.60	17.58	.02	5.42	5.54	-.11	20.51	20.17	.34	-.345	-.575	.966	18.61
71.	17.28	17.22	.06	5.94	6.06	-.12	20.69	20.12	.57	-.343	-.595	.959	16.56
72.	15.54	16.83	-1.29	6.51	6.62	-.11	20.87	19.95	.92	-.318	-.600	.949	14.67
73.	16.33	16.39	-.06	6.95	6.91	.03	21.91	20.20	.70	-.405	-.671	.950	14.19
74.	15.73	15.81	-.08	6.76	6.88	-.12	20.51	20.23	.28	-.515	-.742	.957	14.68
75.	15.13	15.18	-.05	6.68	6.89	-.21	20.08	19.46	.62	-.481	-.730	.951	13.75
76.	14.60	14.62	-.02	7.13	7.21	-.08	18.10	18.73	-.63	-.404	-.700	.936	12.30
77.	13.90	14.05	-.15	7.60	7.79	-.19	19.43	18.92	.51	-.456	-.759	.930	11.63
78.	13.54	13.39	.15	8.54	8.60	-.06	18.39	19.08	.31	-.481	-.788	.919	10.44
79.	12.88	12.73	.16	9.50	9.37	.13	18.66	18.57	.09	-.399	-.778	.886	9.93
80.	12.23	12.16	.06	9.79	9.70	.08	17.93	17.82	.12	-.320	-.763	.857	8.17
81.	11.82	11.71	.11	9.63	9.60	.04	16.93	16.96	-.04	-.261	-.746	.838	7.77
82.	11.54	11.32	.22	9.30	9.58	-.28	16.13	16.46	-.33	-.234	-.744	.824	7.44
83.	11.19	10.94	.25	10.14	9.65	.49	16.55	16.28	.27	-.247	-.759	.819	7.12
84.	11.10	10.53	.57	9.20	9.24	-.04	15.58	15.88	-.30	-.288	-.773	.831	7.21
85.	10.39	10.04	.35	8.75	8.76	-.00	15.25	15.59	-.33	-.372	-.802	.853	7.48
86.	9.85	9.42	.43	8.82	8.89	-.07	15.43	15.77	-.34	-.484	-.853	.870	7.34
87.	9.19	8.64	.54	9.82	9.21	.61	15.86	15.74	.12	-.554	-.899	.873	6.83
88.	8.86	7.83	1.03	9.31	9.23	.08	14.34	14.89	-.54	-.521	-.894	.848	6.05
89.	6.82	7.21	-.39	9.68	9.53	.15	13.25	13.42	-.17	-.270	-.855	.730	4.78
90.	6.28	7.17	-.89	10.61	10.47	.14	11.27	11.42	-.15	.203	-.789	.442	4.28

MONTH = 3 LATITUDE = 10
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RRD	DEPTH
22.	1.85	2.33	-.47	.89	.91	-.02	2.54	2.49	.06	.015	-.350	.931	15.78
23.	2.74	2.31	.44	1.28	1.21	.07	3.02	2.86	.16	-.250	-.625	.912	12.31
24.	2.51	2.26	.25	1.40	1.36	.04	2.88	2.85	.03	-.183	-.624	.883	10.74
25.	2.06	2.24	-.19	1.42	1.43	-.01	2.50	2.63	-.13	.023	-.522	.841	10.10
26.	2.03	2.27	-.24	1.49	1.48	.02	2.59	2.49	.10	.165	-.442	.812	10.16
27.	2.01	2.32	-.31	1.44	1.51	-.07	2.39	2.36	.03	.300	-.346	.791	10.59
28.	2.01	2.41	-.40	1.51	1.58	-.07	2.35	2.22	.13	.440	-.234	.771	11.28
29.	2.04	2.53	-.49	1.56	1.62	-.06	2.29	2.11	.18	.555	-.102	.771	12.59
30.	2.09	2.67	-.58	1.40	1.60	-.20	2.25	2.01	.24	.663	.084	.802	15.12
31.	2.15	2.85	-.70	1.46	1.84	-.38	2.25	1.97	.28	.726	.116	.767	15.40
32.	2.23	3.07	-.84	2.17	2.25	-.08	2.52	2.03	.49	.748	.022	.680	14.31
33.	2.56	3.32	-.75	1.97	2.36	-.38	2.74	2.11	.63	.774	.100	.707	15.68
34.	2.65	3.57	-.92	1.89	2.26	-.38	2.82	2.24	.58	.795	.256	.798	18.56
35.	3.40	3.82	-.41	1.81	2.23	-.41	3.29	2.53	.76	.771	.283	.829	19.46
36.	3.33	4.05	-.72	1.82	2.20	-.37	3.37	2.79	.57	.754	.307	.856	20.46
37.	3.32	4.28	-.96	1.69	2.17	-.48	3.28	2.93	.35	.776	.393	.885	23.80
38.	3.38	4.51	-1.13	1.65	2.20	-.55	3.33	3.05	.28	.799	.459	.901	25.44
39.	3.44	4.75	-1.31	1.60	2.32	-.72	3.44	3.18	.26	.808	.477	.903	26.23
40.	3.53	5.01	-1.48	1.64	2.53	-.89	3.53	3.25	.28	.826	.495	.898	26.86
41.	3.60	5.31	-1.71	1.63	2.87	-1.24	3.54	3.20	.35	.860	.529	.888	27.83
42.	3.70	5.66	-1.96	1.78	3.28	-1.50	3.73	3.14	.59	.887	.554	.876	28.90
43.	3.74	6.05	-2.31	1.85	3.50	-1.65	3.83	3.25	.58	.904	.605	.887	31.54
44.	10.35	6.14	4.20	1.95	3.42	-1.47	10.15	3.69	6.46	.852	.492	.874	27.02
45.	10.36	6.43	3.93	2.00	3.38	-1.38	10.41	4.08	6.33	.831	.441	.888	27.23
46.	10.38	6.84	3.54	2.02	3.43	-1.41	10.26	4.51	5.76	.815	.477	.898	27.45
47.	10.38	7.35	3.04	2.32	3.41	-1.08	10.54	5.10	5.45	.792	.473	.913	28.12
48.	10.51	8.04	2.47	1.88	2.95	-1.07	10.15	5.82	4.33	.831	.641	.959	39.11
49.	10.60	8.32	2.28	1.79	2.63	-.84	10.14	6.41	3.73	.800	.627	.969	42.06
50.	10.62	8.59	2.03	1.87	2.72	-.84	11.17	6.65	4.53	.792	.615	.968	41.53
51.	10.70	8.87	1.83	2.31	2.87	-.56	10.44	6.76	3.68	.809	.636	.968	41.76
52.	10.80	9.14	1.66	2.01	2.72	-.71	10.47	7.44	3.03	.715	.513	.967	38.04
53.	10.86	9.34	1.51	1.99	2.44	-.45	10.24	8.27	1.97	.546	.392	.969	35.09
54.	10.99	9.48	1.51	1.65	2.13	-.48	10.53	8.89	1.63	.370	.164	.975	37.57
55.	11.09	9.56	1.53	1.54	1.95	-.41	10.86	9.34	1.52	.213	.008	.979	38.97
56.	11.16	9.59	1.57	1.68	2.01	-.33	11.16	9.75	1.41	.022	-.185	.978	36.38
57.	11.27	9.56	1.71	1.83	2.10	-.27	11.47	10.28	1.19	-.248	-.435	.980	35.36
58.	11.45	9.93	1.52	1.80	2.14	-.34	11.84	10.43	1.41	-.130	-.330	.979	34.61
59.	13.33	9.61	3.72	1.98	2.29	-.30	14.36	10.29	4.07	-.189	-.398	.976	31.10
60.	13.79	9.48	4.31	2.36	2.54	-.18	15.23	10.38	4.85	-.237	-.461	.971	27.58
61.	14.46	9.31	5.15	2.65	2.88	-.22	15.59	10.51	5.08	-.290	-.530	.965	23.86
62.	17.32	9.07	8.25	3.36	3.24	.11	20.80	10.57	10.23	-.329	-.583	.957	20.56
63.	18.79	8.70	10.09	3.79	3.47	.32	21.74	10.43	11.32	-.349	-.624	.950	18.23
64.	14.30	7.88	6.42	4.02	3.07	.95	17.53	9.40	8.13	-.352	-.621	.952	18.40
65.	5.89	7.05	-1.15	3.02	2.40	.62	5.56	7.93	-2.37	-.222	-.409	.956	18.85
66.	6.07	7.04	-.98	3.25	2.36	.89	5.63	6.97	-1.34	.198	-.139	.943	19.68
67.	6.42	7.13	-.71	3.71	2.81	.90	6.00	7.06	-1.06	.221	-.175	.922	16.59
68.	6.63	7.24	-.61	3.85	3.17	.68	6.25	7.16	-.92	.243	-.198	.903	14.70
69.	6.84	7.37	-.53	3.93	3.49	.44	6.50	7.32	-.82	.250	-.225	.887	13.54
70.	7.12	7.51	-.39	4.32	3.86	.45	7.01	7.66	-.64	.218	-.291	.870	12.18
71.	7.28	7.63	-.35	4.61	4.20	.42	7.56	8.07	-.51	.167	-.362	.859	11.17
72.	7.53	7.73	-.20	4.66	4.34	.32	8.02	8.45	-.43	.108	-.415	.860	10.75
73.	7.66	7.78	-.12	4.56	4.42	.14	8.38	8.80	-.42	.040	-.467	.865	10.63
74.	7.76	7.80	-.04	4.78	4.62	.15	8.88	9.09	-.22	-.008	-.515	.861	9.98
75.	7.79	7.81	-.02	5.12	4.91	.21	8.91	9.09	-.18	.030	-.514	.842	9.36
76.	7.81	7.89	-.07	5.28	5.12	.16	8.54	8.72	-.17	.154	-.448	.814	9.12
77.	8.11	8.09	.02	5.37	5.34	.04	7.96	8.25	-.29	.290	-.353	.787	9.26
78.	8.49	8.42	.07	5.82	5.49	.32	7.82	7.98	-.17	.404	-.262	.777	9.71
79.	8.94	8.82	.11	5.43	5.36	.07	7.71	7.96	-.25	.456	-.167	.801	10.67
80.	9.14	9.24	-1.10	5.10	5.20	-.09	8.13	8.33	-.19	.448	-.127	.830	11.41
81.	9.75	9.62	.14	5.26	5.33	-.07	9.16	9.07	.09	.377	-.188	.839	11.12
82.	9.98	9.94	.03	5.62	5.53	.09	9.93	9.77	.15	.308	-.252	.843	10.78
83.	10.29	10.23	.06	5.53	5.68	-.15	10.24	10.22	.02	.280	-.276	.845	10.70
84.	10.60	10.53	.07	5.99	5.98	.02	10.56	10.37	.19	.316	-.261	.837	10.56
85.	10.98	10.92	.06	6.36	6.55	-.19	10.18	10.28	-.10	.395	-.217	.811	10.36
86.	11.41	11.46	-.05	7.48	7.38	.10	10.21	10.29	-.08	.472	-.192	.775	10.00
87.	12.06	12.12	-.07	8.20	8.00	.20	10.58	10.65	-.07	.502	-.179	.761	9.95
88.	12.83	12.84	-.02	8.09	8.29	-.20	11.27	11.29	-.02	.498	-.167	.772	10.10
89.	13.60	13.61	-.00	8.74	9.09	-.36	12.09	12.04	.04	.496	-.194	.755	9.74
90.	14.59	14.51	.08	10.79	10.79	-.01	12.77	12.76	.01	.524	-.250	.694	8.92

MONTH = 3 LATITUDE = 30

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	1.98	2.58	-.60	.92	.95	-.02	2.15	2.10	.06	.649	.348	.939	22.47
23.	2.07	2.65	-.58	1.39	1.45	-.06	2.42	2.74	-.33	.212	-.322	.867	11.87
24.	5.00	2.66	2.34	1.81	1.68	.13	5.15	3.32	1.83	-.125	-.607	.865	10.18
25.	2.22	2.68	-.46	1.44	1.60	-.17	2.28	2.74	-.45	.262	-.329	.825	11.14
26.	2.19	2.78	-.60	1.58	1.65	-.07	2.14	2.29	-.14	.572	-.028	.804	13.33
27.	2.93	2.93	-.00	1.83	1.87	-.03	2.86	2.58	.28	.495	-.162	.777	11.84
28.	3.01	3.07	-.06	1.91	1.95	-.04	2.93	2.78	.16	.460	-.196	.780	11.69
29.	3.07	3.21	-.14	1.84	1.94	-.09	2.89	2.79	.10	.503	-.116	.800	12.77
30.	3.20	3.36	-.16	1.86	1.91	-.06	2.94	2.82	.12	.545	-.030	.822	14.08
31.	3.28	3.52	-.24	1.80	1.95	-.15	3.01	2.91	.09	.561	.008	.833	14.81
32.	3.38	3.68	-.31	2.01	2.07	-.05	3.25	3.05	.20	.560	-.092	.828	14.72
33.	3.46	3.85	-.39	2.06	2.17	-.11	3.34	3.22	.13	.550	-.017	.826	14.65
34.	3.71	4.02	-.32	2.11	2.21	-.10	3.72	3.45	.27	.515	-.041	.835	14.77
35.	3.87	4.18	-.31	2.07	2.23	-.16	3.95	3.69	.25	.473	-.071	.847	14.98
36.	3.98	4.32	-.35	2.14	2.24	-.10	4.21	3.93	.28	.466	-.057	.857	15.49
37.	4.01	4.48	-.47	2.06	2.25	-.20	4.10	3.83	.26	.518	.017	.864	16.67
38.	4.05	4.65	-.60	2.17	2.29	-.12	4.17	3.85	.32	.565	.087	.871	17.84
39.	4.11	4.83	-.73	2.11	2.34	-.23	4.38	3.93	.46	.633	.134	.877	18.85
40.	4.21	5.03	-.82	2.21	2.41	-.20	4.44	3.91	.54	.656	.226	.885	20.53
41.	4.32	5.26	-.95	2.23	2.50	-.27	4.31	3.80	.51	.741	.369	.897	23.52
42.	4.45	5.52	-1.07	2.30	2.54	-.24	4.38	3.81	.56	.798	.490	.916	27.25
43.	4.79	5.79	-1.01	2.20	2.53	-.33	4.78	3.98	.80	.823	.559	.932	30.65
44.	4.90	6.07	-1.17	2.13	2.55	-.42	4.60	4.16	.45	.842	.617	.944	34.00
45.	5.04	6.35	-1.31	2. 3	2.66	-.52	4.81	4.33	.48	.850	.634	.946	35.37
46.	5.17	6.65	-1.49	2.23	2.83	-.60	4.98	4.53	.45	.844	.615	.942	34.13
47.	5.27	6.97	-1.70	2.21	2.96	-.75	5.09	4.69	.41	.856	.641	.945	35.59
48.	5.31	7.29	-1.98	2.11	2.95	-.84	5.13	4.94	.19	.871	.688	.956	38.30
49.	8.56	7.61	.95	2.08	2.83	-.75	8.35	5.41	2.94	.852	.677	.962	40.34
50.	8.69	7.91	.77	2.12	2.79	-.67	8.39	5.84	2.55	.822	.636	.962	39.18
51.	8.86	8.21	.65	2.30	2.85	-.55	8.56	6.13	2.43	.810	.619	.962	38.30
52.	9.05	8.50	.55	2.31	2.85	-.53	8.77	6.50	2.26	.786	.589	.963	37.42
53.	9.40	8.78	.62	2.27	2.80	-.53	9.01	6.89	2.12	.761	.562	.965	37.28
54.	9.66	9.05	.61	2.38	2.82	-.44	9.30	7.21	2.09	.743	.542	.965	36.74
55.	9.91	9.32	.59	2.46	2.91	-.45	9.56	7.61	1.94	.699	.461	.961	33.71
56.	10.18	9.58	.61	2.67	3.00	-.33	9.90	8.09	1.81	.613	.355	.956	30.38
57.	10.53	9.81	.72	2.61	3.01	-.40	10.22	8.58	1.64	.536	.262	.955	28.69
58.	11.00	9.99	1.02	2.68	3.02	-.34	10.63	9.40	1.22	.338	.037	.953	25.78
59.	14.54	10.07	4.47	2.73	3.06	-.33	10.94	10.28	.66	.082	-.217	.955	23.96
60.	11.67	10.09	1.58	2.93	3.12	-.29	11.35	10.60	.76	-.013	-.306	.956	23.20
61.	11.90	10.06	1.84	3.06	3.22	-.15	11.72	10.87	.84	-.103	-.391	.956	22.27
62.	12.21	9.96	2.25	3.15	3.39	-.24	11.91	11.49	.42	-.315	-.568	.960	21.67
63.	13.14	9.76	3.38	3.65	3.63	.02	13.01	11.95	1.06	-.487	-.701	.964	21.27
64.	13.21	9.52	3.69	3.78	3.54	.23	12.82	11.48	1.34	-.425	-.661	.960	20.23
65.	9.01	9.37	-.35	3.09	3.21	-.12	9.38	10.42	-1.04	-.177	-.467	.953	19.99
66.	9.07	9.31	-.24	3.40	3.26	.13	9.58	10.01	-.43	-.044	-.368	.945	18.90
67.	9.14	9.29	-.15	3.86	3.63	.23	9.76	10.10	-.34	-.037	-.393	.933	16.87
68.	9.11	9.27	-.16	3.97	3.71	.25	9.87	10.17	-.29	-.054	-.414	.931	16.32
69.	9.12	9.22	-.10	3.53	3.72	-.19	9.99	10.27	-.28	-.095	-.448	.933	16.13
70.	9.19	9.16	.03	4.22	4.11	.12	10.25	10.48	-.23	-.128	-.497	.921	14.40
71.	9.15	9.07	.08	4.79	4.70	.10	10.58	10.71	-.13	-.121	-.541	.900	12.36
72.	9.18	8.99	.19	5.34	5.19	.14	10.64	10.80	-.16	-.093	-.559	.878	10.94
73.	9.20	8.93	.28	5.71	5.58	.13	10.53	10.79	-.25	-.056	-.563	.856	9.99
74.	9.27	8.89	.38	6.03	5.92	.11	10.61	10.83	-.21	-.030	-.571	.838	9.28
75.	9.20	8.87	.33	6.45	6.21	.24	10.61	10.87	-.25	-.008	-.578	.821	8.78
76.	9.04	8.88	.17	6.53	6.38	.15	10.59	10.81	-.21	.024	-.571	.807	8.48
77.	9.17	8.92	.25	6.68	6.42	.26	10.37	10.68	-.30	.059	-.552	.800	8.40
78.	9.06	8.99	.07	6.46	6.28	.18	10.32	10.58	-.27	.073	-.531	.806	8.61
79.	9.05	9.08	-.03	6.19	6.10	.09	10.31	10.44	-.14	.096	-.501	.814	8.88
80.	8.80	9.20	-.40	6.13	6.27	-.14	9.94	10.42	-.48	.134	-.484	.802	8.75
81.	9.52	9.35	.17	7.07	6.70	.37	10.80	10.73	.07	.136	-.506	.786	8.24
82.	9.19	9.51	-.32	6.86	6.81	.05	10.89	10.87	.02	.144	-.500	.785	8.22
83.	9.37	9.72	-.35	6.67	6.80	-.13	10.56	10.65	-.09	.207	-.450	.780	8.42
84.	9.55	10.03	-.48	7.06	6.98	.09	10.50	10.30	.20	.309	-.377	.785	8.67
85.	10.34	10.47	-.13	6.97	7.11	-.14	9.84	9.95	-.11	.411	-.281	.759	9.23
86.	10.95	11.02	-.07	7.15	7.29	-.14	9.99	10.14	-.14	.447	-.233	.765	9.58
87.	11.58	11.57	.01	7.59	7.45	.14	11.17	11.04	.12	.391	-.265	.784	9.48
88.	12.17	12.03	.14	7.18	7.83	-.64	12.30	12.30	.00	.291	-.352	.793	8.98
89.	12.79	12.43	.36	9.11	9.41	-.30	13.81	13.71	.10	.236	-.473	.745	7.56
90.	13.05	12.93	.12	12.10	12.11	-.01	15.15	15.14	.01	.271	-.569	.638	6.13

MONTH = 3 LATITUDE = 50
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE ORIG	PRESSURE NEW	PRESSURE DIF	TEMPERATURE ORIG	TEMPERATURE NEW	TEMPERATURE DIF	DENSITY ORIG	DENSITY NEW	DENSITY DIF	CORRELATION COEFFICIENTS RPT	RTD	RRD	DEPTH
22.	4.38	3.49	.89	2.09	2.11	-.02	5.36	5.07	.28	-.617	-.841	.945	13.41
23.	3.55	3.32	.22	3.27	2.92	.34	4.92	4.99	-.08	-.275	-.768	.827	7.55
24.	3.38	3.24	.14	3.30	3.23	.07	4.71	4.78	-.07	-.095	-.739	.741	6.39
25.	3.31	3.23	.08	3.39	3.28	.11	4.34	4.45	-.11	.066	-.689	.678	6.27
26.	3.38	3.30	.07	3.37	3.33	.04	3.98	4.15	-.17	.217	-.629	.622	6.46
27.	3.53	3.45	.09	3.51	3.39	.12	3.92	3.97	-.05	.327	-.570	.580	6.87
28.	3.74	3.65	.09	3.49	3.43	.06	3.69	3.79	-.10	.428	-.494	.575	7.58
29.	4.02	3.90	.12	3.58	3.45	.13	3.53	3.63	-.10	.520	-.393	.581	8.52
30.	4.36	4.20	.16	3.51	3.46	.05	3.43	3.55	-.13	.585	-.283	.613	9.68
31.	4.71	4.52	.19	3.60	3.48	.12	3.49	3.60	-.11	.623	-.185	.654	10.84
32.	5.09	4.86	.23	3.59	3.50	.09	3.64	3.75	-.12	.640	-.104	.698	11.98
33.	5.47	5.20	.27	3.62	3.41	.22	3.85	3.93	-.09	.653	-.003	.765	13.38
34.	5.60	5.52	.08	3.21	3.25	-.03	3.96	4.18	-.22	.658	.092	.811	15.13
35.	6.04	5.83	.21	3.34	3.23	.11	4.48	4.63	-.16	.609	.068	.833	15.44
36.	6.42	6.10	.32	3.43	3.32	.11	5.10	5.16	-.06	.535	-.011	.839	14.97
37.	6.67	6.35	.32	3.48	3.35	.13	5.36	5.52	-.17	.496	-.038	.849	15.18
38.	6.92	6.58	.34	3.45	3.33	.12	5.61	5.83	-.22	.464	-.048	.862	15.71
39.	7.29	6.78	.51	3.42	3.32	.09	6.02	6.23	-.21	.405	-.093	.873	15.90
40.	7.41	6.95	.45	3.51	3.37	.14	6.42	6.64	-.22	.334	-.159	.878	15.87
41.	7.82	7.09	.72	3.62	3.44	.18	6.71	7.00	-.29	.268	-.220	.881	15.66
42.	8.13	7.22	.91	3.64	3.45	.20	7.03	7.07	-.04	.282	-.199	.884	16.18
43.	6.99	7.38	-.39	3.66	3.42	.13	6.28	6.72	-.44	.417	-.051	.886	17.78
44.	7.24	7.60	-.36	3.55	3.45	.09	6.22	6.47	-.25	.529	.088	.892	19.65
45.	7.48	7.85	-.36	3.62	3.51	.12	6.39	6.56	-.17	.560	.136	.897	20.72
46.	7.73	8.10	-.37	3.54	3.53	.01	6.72	6.79	-.07	.559	.148	.902	21.32
47.	7.98	8.36	-.38	3.61	3.53	.08	7.02	7.02	-.01	.560	.164	.909	22.08
48.	8.24	8.61	-.37	3.45	3.43	.02	7.20	7.24	-.04	.567	.201	.921	23.67
49.	8.67	8.86	-.19	3.20	3.26	-.06	7.58	7.49	.09	.576	.240	.934	25.78
50.	8.82	9.09	-.27	3.12	3.17	-.05	7.77	7.75	.03	.568	.257	.941	27.22
51.	9.07	9.32	-.25	3.15	3.17	-.02	8.11	8.01	.10	.555	.251	.944	27.46
52.	9.31	9.55	-.24	3.11	3.17	-.06	8.39	8.27	.12	.541	.241	.947	27.64
53.	9.52	9.77	-.25	3.16	3.24	-.08	8.63	8.47	.16	.541	.242	.947	27.53
54.	9.55	10.01	-.46	3.32	3.40	-.08	8.76	8.63	.13	.546	.239	.944	26.83
55.	9.74	10.25	-.52	3.56	3.56	-.00	9.04	8.84	.19	.549	.226	.941	26.09
56.	10.00	10.51	-.50	3.49	3.62	-.13	9.38	9.13	.25	.527	.210	.942	25.71
57.	10.26	10.76	-.49	3.56	3.60	-.04	9.79	9.46	.33	.505	.194	.944	25.89
58.	10.52	11.00	-.48	3.37	3.52	-.16	10.16	9.77	.40	.489	.190	.949	26.30
59.	10.75	11.24	-.49	3.32	3.45	-.14	10.45	9.86	.59	.528	.261	.955	28.03
60.	11.01	11.50	-.50	3.30	3.49	-.19	10.04	9.87	.17	.588	.332	.958	29.58
61.	10.83	11.79	-.96	3.49	3.69	-.21	10.77	10.18	.59	.563	.290	.956	27.74
62.	11.26	12.08	-.82	3.81	4.00	-.18	11.34	10.63	.71	.507	.200	.946	24.93
63.	11.68	12.36	-.68	4.04	4.15	-.11	11.70	11.00	.71	.474	.161	.944	23.83
64.	12.25	12.62	-.36	3.76	4.07	-.31	12.24	11.66	.58	.388	.077	.947	23.42
65.	13.19	12.79	.40	3.79	4.01	-.22	13.63	12.57	1.07	.212	-.103	.950	22.53
66.	13.24	12.88	.36	3.87	4.09	-.22	13.84	13.17	.67	.087	-.225	.951	21.54
67.	13.24	12.91	.32	4.13	4.21	-.08	14.01	13.45	.56	.032	-.282	.950	20.77
68.	13.16	12.92	.24	4.11	4.15	-.04	14.08	13.66	.42	-.025	-.327	.953	20.87
69.	13.09	12.88	.21	3.77	4.09	-.31	14.17	13.86	.31	-.090	-.378	.956	21.03
70.	13.08	12.81	.27	4.32	4.40	-.08	14.34	14.08	.26	-.133	-.433	.951	19.35
71.	12.99	12.71	.28	4.89	4.95	-.06	14.49	14.30	.19	-.147	-.476	.940	16.95
72.	12.22	12.59	-.37	5.44	5.48	-.04	14.64	14.45	.19	-.147	-.507	.927	15.03
73.	12.81	12.46	.35	5.91	5.91	.00	14.69	14.56	.13	-.147	-.532	.916	13.73
74.	12.71	12.31	.40	6.17	6.21	-.05	14.74	14.68	.07	-.164	-.561	.909	12.82
75.	12.52	12.16	.36	6.50	6.43	.06	14.81	14.58	.24	-.149	-.566	.900	12.14
76.	12.23	12.02	.21	6.57	6.59	-.02	14.95	14.38	-.44	-.120	-.558	.891	11.51
77.	12.06	11.87	.19	6.80	6.71	.10	14.64	14.52	.12	-.157	-.590	.890	11.12
78.	11.82	11.68	.14	6.79	6.74	.05	14.54	14.55	-.01	-.199	-.615	.891	10.85
79.	11.57	11.50	.07	6.77	6.79	-.03	14.09	14.18	-.09	-.145	-.597	.881	10.42
80.	11.40	11.37	.03	7.05	7.10	-.05	13.58	13.88	-.30	-.080	-.577	.860	9.69
81.	11.52	11.29	.23	7.74	7.41	.34	13.85	13.84	.01	-.055	-.580	.845	9.11
82.	11.16	11.22	-.06	7.33	7.41	-.08	13.64	13.81	-.18	-.068	-.585	.848	9.01
83.	11.10	11.14	-.03	7.46	7.39	.07	13.70	13.79	-.09	-.070	-.592	.845	8.88
84.	11.05	11.07	-.02	7.49	7.34	.15	13.76	13.55	.21	-.045	-.578	.841	8.83
85.	10.80	11.05	-.25	7.07	7.20	-.13	12.72	13.04	-.33	.094	-.531	.834	8.95
86.	10.95	11.10	-.15	7.24	7.36	-.12	12.85	13.01	-.16	.049	-.523	.825	8.71
87.	11.13	11.13	-.00	7.87	7.68	.19	13.63	13.50	.13	.003	-.566	.823	8.32
88.	11.35	11.10	.25	7.70	8.19	-.48	13.96	14.09	-.13	-.045	-.617	.814	7.71
89.	11.29	11.07	.22	9.48	9.69	-.20	14.75	14.72	.04	-.001	-.659	.757	6.46
90.	10.90	11.23	-.33	12.19	12.16	.04	15.23	15.28	-.05	.148	-.687	.617	5.25

MONTH = 3 LATITUDE = 70

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RRD	DEPTH
22.	5.43	6.41	-.98	2.73	2.77	-.04	4.65	4.58	.07	.783	.493	.927	24.02
23.	5.84	6.75	-.91	3.31	3.28	.02	5.14	5.12	.03	.601	.258	.883	18.08
24.	7.00	7.08	-.08	3.37	3.54	-.17	6.26	5.90	.36	.556	.067	.867	15.49
25.	7.39	7.36	.03	3.58	3.75	-.17	6.92	6.65	.27	.434	-.044	.861	14.08
26.	7.65	7.60	.06	3.98	4.02	-.04	7.49	7.19	.30	.362	-.176	.854	13.10
27.	8.03	7.81	.22	4.09	4.20	-.11	7.72	7.56	.15	.327	-.218	.851	12.84
28.	8.18	8.02	.16	4.30	4.35	-.06	8.00	7.84	.16	.311	-.237	.850	12.71
29.	8.31	8.23	.08	4.47	4.44	.03	8.15	8.04	.11	.313	-.232	.851	12.84
30.	8.66	8.44	.22	4.35	4.40	-.06	8.19	8.19	.00	.317	-.211	.860	13.37
31.	8.93	8.65	.29	4.34	4.38	-.04	8.44	8.44	-.00	.300	-.212	.869	13.76
32.	9.08	8.84	.25	4.46	4.46	.01	8.76	8.73	.03	.276	-.232	.871	13.76
33.	9.33	9.03	.30	4.61	4.55	.06	8.90	8.85	.05	.291	-.217	.871	13.90
34.	9.20	9.24	-.05	4.62	4.60	.02	8.64	8.77	-.12	.350	-.165	.871	14.45
35.	9.22	9.51	-.29	4.66	4.67	-.01	8.67	8.68	-.02	.415	-.083	.872	15.13
36.	9.47	9.82	-.35	4.79	4.78	.01	8.64	8.68	-.03	.468	-.021	.874	15.78
37.	9.91	10.16	-.24	4.84	4.82	.02	8.80	8.78	.02	.503	.033	.880	16.64
38.	10.29	10.52	-.22	4.69	4.76	-.06	9.08	9.04	.04	.514	.072	.892	17.64
39.	10.82	10.87	-.04	4.66	4.68	-.03	9.49	9.39	.10	.509	.091	.903	18.56
40.	11.31	11.21	.10	4.56	4.62	-.06	9.83	9.73	.10	.506	.107	.912	19.49
41.	11.75	11.55	.21	4.59	4.58	.01	10.04	9.98	.06	.517	.139	.920	20.61
42.	12.16	11.89	.27	4.50	4.52	-.02	10.19	10.16	.03	.546	.192	.928	22.13
43.	12.36	12.25	.11	4.45	4.44	.02	10.30	10.28	.01	.588	.269	.937	24.27
44.	12.51	12.63	-.11	4.35	4.35	-.00	10.35	10.38	-.04	.642	.362	.947	27.15
45.	12.66	13.03	-.37	4.25	4.25	-.00	10.55	10.54	.01	.692	.462	.957	30.68
46.	13.03	13.44	-.41	4.12	4.12	.00	10.82	10.78	.04	.736	.534	.966	34.94
47.	13.32	13.85	-.53	3.88	3.98	-.10	11.20	11.12	.08	.764	.594	.973	39.46
48.	13.50	14.26	-.77	3.88	3.95	-.07	11.71	11.57	.14	.757	.592	.975	40.60
49.	13.91	14.66	-.76	3.93	3.92	.00	12.37	12.10	.27	.730	.560	.975	40.40
50.	14.35	15.03	-.68	3.65	3.77	-.12	12.95	12.66	.28	.704	.539	.977	41.92
51.	14.84	15.37	-.53	3.50	3.63	-.13	13.65	13.30	.35	.649	.477	.978	41.36
52.	15.43	15.66	-.23	3.49	3.60	-.11	14.46	14.01	.45	.548	.357	.977	38.67
53.	15.88	15.90	-.02	3.54	3.60	-.06	15.09	14.63	.46	.452	.245	.976	36.66
54.	16.10	16.11	-.01	3.47	3.61	-.15	15.51	15.03	.47	.400	.188	.975	36.02
55.	16.08	16.31	-.22	3.64	3.73	-.09	15.58	15.22	.36	.396	.179	.974	35.20
56.	16.09	16.52	-.43	3.89	3.89	-.07	15.71	15.31	.40	.417	.195	.973	34.14
57.	16.08	16.75	-.67	3.93	4.02	-.10	15.79	15.39	.40	.446	.224	.972	33.77
58.	15.99	17.00	-1.01	3.99	4.13	-.14	16.04	15.61	.43	.446	.221	.972	33.80
59.	16.62	17.26	-.64	4.08	4.23	-.15	16.76	15.89	.87	.433	.204	.971	32.17
60.	16.89	17.52	-.63	4.15	4.35	-.20	16.70	16.13	.57	.431	.199	.970	31.50
61.	17.10	17.78	-.68	4.27	4.50	-.24	17.57	16.50	1.07	.401	.159	.968	30.02
62.	17.42	18.04	-.62	4.48	4.73	-.25	17.83	16.87	.96	.371	.116	.966	28.26
63.	17.75	18.30	-.55	4.72	4.85	-.12	18.28	17.15	1.14	.363	.104	.965	27.69
64.	18.23	18.54	-.31	4.44	4.76	-.32	18.49	17.60	.84	.321	.068	.967	27.69
65.	19.14	18.73	.41	4.46	4.63	-.17	19.43	18.24	1.19	.227	-.020	.969	27.79
66.	19.18	18.86	.32	4.32	4.53	-.21	19.49	18.72	.77	.152	-.089	.971	27.87
67.	19.20	18.95	.25	4.33	4.44	-.12	19.69	19.00	.69	.104	-.128	.973	28.13
68.	19.19	19.01	.18	4.24	4.40	-.17	19.76	19.26	.51	.059	-.171	.974	28.10
69.	20.09	19.03	1.06	4.37	4.49	-.12	19.91	19.56	.35	-.002	-.231	.973	27.32
70.	19.08	19.00	.08	4.64	4.76	-.11	20.17	19.90	.27	-.070	-.3.5	.971	26.55
71.	19.02	18.92	.09	5.13	5.20	-.06	20.43	20.21	.21	-.119	-.369	.967	23.18
72.	18.30	18.81	-.50	5.67	5.67	.00	20.68	20.46	.22	-.154	-.418	.962	21.11
73.	18.75	18.64	.11	5.93	5.92	.06	20.89	20.67	.23	-.202	-.468	.960	20.03
74.	18.54	18.41	.12	5.82	5.95	-.13	21.01	20.85	.16	-.274	-.528	.962	19.96
75.	18.25	18.13	.12	5.99	6.09	-.09	21.15	20.85	.30	-.312	-.563	.961	19.36
76.	17.88	17.80	.08	6.40	6.41	-.01	20.57	20.84	-.27	-.335	-.594	.957	18.11
77.	17.40	17.40	.00	6.74	6.81	-.07	21.44	21.14	.29	-.414	-.663	.956	17.17
78.	17.02	16.89	.12	7.26	7.29	-.02	21.39	21.22	.17	-.454	-.705	.952	15.84
79.	16.50	16.36	.15	7.82	7.75	.07	21.82	20.83	-.01	-.413	-.701	.941	14.08
80.	15.87	15.83	.04	8.08	8.05	.03	20.35	20.36	-.01	-.388	-.698	.931	12.92
81.	15.38	15.31	.07	8.24	8.21	.03	19.90	19.94	-.04	-.381	-.705	.925	12.10
82.	14.88	14.78	.10	8.32	8.40	-.08	19.56	19.60	-.04	-.384	-.718	.918	11.38
83.	14.55	14.22	.33	8.79	8.51	.28	19.26	19.27	-.02	-.402	-.737	.915	10.78
84.	14.11	13.63	.48	8.29	8.38	-.09	18.72	18.80	-.08	-.429	-.755	.915	10.58
85.	13.08	13.00	.07	8.38	8.55	-.17	17.98	18.45	-.46	-.442	-.775	.909	9.93
86.	12.52	12.31	.21	9.46	9.28	.18	18.44	18.53	-.09	-.462	-.808	.896	8.71
87.	11.55	11.54	.01	10.19	9.86	.33	18.53	18.44	.09	-.492	-.836	.884	7.78
88.	11.05	10.74	.31	10.21	9.97	.24	17.80	17.69	-.18	-.459	-.842	.865	7.05
89.	9.97	10.06	-.09	10.14	10.37	-.23	16.42	16.57	-.15	-.315	-.817	.845	6.95
90.	9.23	9.75	-.52	11.62	11.56	.06	15.25	15.34	-.08	-.030	-.772	.658	4.92

MONTH = 3 LATITUDE = 90
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	5.73	6.94	-1.20	2.91	4.08	-1.17	4.36	4.51	-.15	.871	.656	.942	27.9%
23.	6.43	7.38	-.96	3.32	3.42	-.09	5.22	5.16	.05	.793	.459	.912	20.56
24.	7.84	7.81	.04	3.39	3.62	-.22	6.70	6.19	.51	.63[illegible]	.214	.892	15.9[illegible]
25.	8.32	8.17	.14	3.64	3.88	-.23	7.59	7.20	.39	.473	-.002	.880	13.31
26.	8.62	8.47	.14	4.16	4.19	-.03	8.34	7.93	.40	.372	-.131	.871	12.30
27.	9.05	8.74	.31	4.27	4.41	-.14	8.62	8.43	.19	.396	-.192	.869	12.00
28.	9.20	8.97	.22	4.53	4.59	-.05	8.99	8.81	.18	.291	-.224	.867	11.91
29.	9.30	9.20	.10	4.73	4.69	.04	9.19	9.07	.12	.248	-.230	.868	12.09
30.	9.68	9.42	.25	4.59	4.64	-.05	9.25	9.26	-.01	.281	-.215	.877	12.66
31.	9.95	9.63	.32	4.55	4.60	-.05	9.53	9.55	-.02	.295	-.295	.885	13.16
32.	10.07	9.81	.26	4.72	4.70	.02	9.90	9.88	.02	.224	-.253	.886	13.20
33.	10.30	9.98	.31	4.89	4.84	.06	10.03	9.99	.04	.242	-.242	.883	13.46
34.	10.09	10.20	-.11	4.98	4.94	.04	9.71	9.82	-.11	.317	-.173	.879	14.09
35.	9.99	10.48	-.49	5.03	5.05	-.02	9.57	9.61	-.03	.406	-.082	.877	14.86
36.	10.26	10.82	-.56	5.18	5.18	-.00	9.50	9.50	.00	.490	.001	.878	15.89
37.	10.73	11.21	-.48	5.23	5.23	-.00	9.61	9.55	.05	.527	.071	.885	17.20
38.	11.16	11.61	-.45	5.05	5.17	-.11	9.93	9.80	.13	.547	.121	.897	18.76
39.	11.74	12.01	-.27	5.02	5.08	-.06	10.34	10.14	.20	.551	.152	.908	20.14
40.	12.30	12.40	-.10	4.89	5.02	-.12	10.47	10.46	.21	.562	.184	.918	21.64
41.	12.79	12.80	-.01	4.92	4.95	-.03	10.89	10.70	.19	.582	.234	.926	23.16
42.	13.23	13.19	.04	4.77	4.86	-.09	11.04	10.93	.11	.610	.291	.936	25.16
43.	13.74	13.60	.1[illegible]	4.72	4.75	-.03	11.37	11.17	.20	.641	.355	.945	27.46
44.	13.87	14.02	-.15	4.59	4.63	-.04	11.43	11.35	.08	.698	.443	.955	31.03
45.	14.01	14.46	-.46	4.44	4.50	-.06	11.66	11.52	.13	.744	.543	.965	36.04
46.	14.40	14.90	-.50	4.31	4.34	-.03	11.91	11.90	.01	.769	.595	.972	40.56
47.	14.71	15.33	-.62	3.99	4.21	-.22	12.31	12.52	-.21	.743	.573	.974	41.80
48.	14.87	15.73	-.85	4.02	4.21	-.19	12.91	12.98	-.08	.724	.558	.975	42.42
49.	15.33	16.12	-.79	4.16	4.22	-.05	13.66	13.40	.26	.720	.551	.976	43.51
50.	15.83	16.48	-.65	3.83	4.04	-.20	14.32	14.02	.29	.685	.517	.976	44.96
51.	16.37	16.81	-.44	3.63	3.84	-.22	15.12	14.61	.50	.643	.483	.980	45.49
52.	17.03	17.11	-.07	3.63	3.79	-.16	16.04	15.29	.75	.563	.382	.979	42.61
53.	17.55	17.35	.19	3.68	3.77	-.09	16.77	16.04	.73	.443	.245	.978	38.38
54.	17.82	17.55	.27	3.54	3.74	-.20	17.25	16.52	.73	.375	.170	.978	38.21
55.	17.75	17.74	.01	3.71	3.85	-.14	17.28	16.73	.54	.362	.154	.977	36.70
56.	17.71	17.94	-.23	3.97	4.04	-.08	17.37	16.82	.55	.382	.167	.975	34.97
57.	17.65	18.17	-.51	4.07	4.20	-.13	17.38	16.87	.51	.413	.195	.974	33.80
58.	17.47	18.42	-.95	4.19	4.34	-.15	17.61	17.09	.51	.411	.188	.973	32.52
59.	18.18	18.67	-.49	4.32	4.49	-.17	18.42	17.40	1.02	.393	.164	.971	30.98
60.	18.36	18.94	-.58	4.40	4.61	-.21	18.35	17.64	.71	.393	.161	.971	29.91
61.	18.60	19.21	-.61	4.48	4.74	-.26	18.20	17.97	1.23	.376	.138	.970	28.69
62.	18.88	19.48	-.60	4.64	4.94	-.30	19.43	18.29	1.13	.360	.114	.968	27.10
63.	19.17	19.77	-.60	4.92	5.06	-.14	19.83	18.52	1.31	.367	.119	.967	26.29
64.	19.71	20.05	-.34	4.63	4.98	-.35	19.97	1 .86	1.00	.337	.084	.969	26.15
65.	20.75	20.29	.46	4.66	4.84	-.18	21.01	19.65	1.37	.258	.012	.971	26.08
66.	20.79	20.46	.33	4.46	4.68	-.22	21.04	20.16	.88	.178	-.050	.974	26.26
67.	20.82	20.59	.23	4.39	4.53	-.14	21.25	20.46	.78	.137	-.083	.974	26.72
68.	20.91	20.68	.13	4.28	4.49	-.21	21.32	20.75	.57	.092	-.126	.977	26.57
69.	21.43	20.73	1.20	4.55	4.61	-.07	21.48	21.08	.39	.031	-.189	.976	25.38
70.	20.69	20.72	-.03	4.74	4.87	-.13	21.77	21.48	.29	-.042	-.268	.974	23.78
71.	20.64	20.65	-.02	5.21	5.29	-.07	22.05	21.82	.24	-.098	-.335	.970	21.83
72.	19.92	20.54	-.61	5.75	5.74	.01	22.39	22.06	.26	-.139	-.389	.966	19.97
73.	20.35	20.36	-.01	6.01	5.93	.08	23.59	22.30	.28	-.197	-.446	.965	18.38
74.	20.11	20.10	.01	5.70	5.87	-.16	23.72	22.50	.22	-.282	-.517	.964	19.60
75.	19.79	19.76	.03	5.81	5.97	-.15	23.86	22.52	.36	-.344	-.567	.969	19.40
76.	19.40	19.36	.04	6.35	6.35	-.00	23.35	22.56	-.22	-.388	-.609	.966	18.64
77.	18.85	18.87	-.02	6.72	6.84	-.11	23.27	22.82	.35	-.475	-.680	.965	18.18
78.	18.43	18.26	.16	7.41	7.45	-.03	23.23	23.01	.22	-.517	-.734	.961	17.02
79.	17.84	17.62	.23	8.14	8.03	.10	23.62	23.62	-.00	-.496	-.732	.958	15.26
80.	17.10	16.99	.11	8.40	8.33	.07	23.15	22.12	.03	-.463	-.732	.943	14.42
81.	16.46	16.36	.10	8.40	8.44	-.05	21.54	21.63	-.09	-.466	-.743	.938	13.49
82.	15.93	15.71	.22	8.62	8.69	-.07	21.17	21.20	-.03	-.465	-.755	.932	12.37
83.	14.56	15.03	-.46	8.18	8.87	-.31	20.72	20.73	-.05	-.470	-.769	.926	11.46
84.	14.99	14.31	.68	8.54	8.74	-.20	20.11	20.15	-.04	-.509	-.788	.927	11.19
85.	13.75	13.53	.23	8.77	8.99	-.22	19.43	19.84	-.41	-.533	-.817	.924	10.31
86.	13.00	12.63	.37	10.09	9.86	.22	19.95	19.98	-.02	-.572	-.855	.914	9.04
87.	11.69	11.60	.09	10.85	12.50	-.35	19.89	19.78	.11	-.601	-.903	.906	8.05
88.	10.95	10.54	.41	10.67	10.50	.17	18.54	18.71	-.17	-.591	-.889	.869	7.18
89.	9.49	9.61	-.12	10.35	10.58	-.23	16.94	17.12	-.18	-.437	-.865	.831	5.91
90.	8.59	9.10	-.50	11.42	11.36	.06	15.26	15.35	-.09	-.115	-.808	.678	4.76

MONTH = 4 LATITUDE = 10
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	1.45	1.73	-.28	.94	.97	-.03	2.23	2.08	.14	-.120	-.565	.887	11.11
23.	1.35	1.72	-.37	1.22	1.22	.00	2.05	2.09	-.04	.025	-.565	.811	8.83
24.	4.35	1.72	2.63	1.25	1.36	-.11	2.10	2.22	-.12	-.019	-.628	.790	8.07
25.	1.57	1.72	-.15	1.35	1.43	-.08	2.29	2.24	.05	.003	-.638	.768	7.77
26.	1.53	1.74	-.22	1.53	1.53	.01	2.23	2.11	.12	.172	-.581	.701	7.56
27.	1.53	1.80	-.27	1.48	1.55	-.07	2.02	1.93	.09	.348	-.479	.656	8.17
28.	1.57	1.90	-.33	1.40	1.51	-.11	1.90	1.76	.14	.495	-.335	.662	9.59
29.	1.65	2.02	-.37	1.35	1.47	-.12	1.84	1.63	.22	.607	-.151	.694	11.69
30.	1.74	2.17	-.43	1.28	1.47	-.18	1.66	1.47	.19	.738	.092	.740	14.96
31.	1.89	2.33	-.44	1.35	1.52	-.16	1.56	1.50	.07	.779	.201	.771	16.93
32.	2.24	2.50	-.27	1.40	1.58	-.18	2.21	1.72	.49	.732	.149	.783	16.31
33.	2.30	2.67	-.37	1.41	1.61	-.20	2.16	1.85	.31	.731	.182	.804	17.16
34.	2.38	2.83	-.46	1.47	1.68	-.21	2.24	2.04	.20	.703	.168	.811	17.03
35.	3.20	2.98	.22	1.58	1.75	-.17	2.98	2.49	.50	.563	-.041	.810	14.89
36.	3.18	3.10	.08	1.64	1.76	-.11	3.25	2.86	.40	.415	-.164	.829	14.25
37.	3.17	3.19	-.02	1.56	1.68	-.12	3.23	2.98	.25	.386	-.153	.853	15.26
38.	3.22	3.28	-.06	1.52	1.63	-.11	3.20	3.02	.18	.402	-.102	.870	16.40
39.	3.28	3.36	-.09	1.53	1.64	-.10	3.27	3.09	.18	.402	-.092	.875	17.01
40.	3.37	3.45	-.08	1.63	1.68	-.05	3.39	3.21	.18	.384	-.112	.875	17.03
41.	3.46	3.53	-.07	1.62	1.70	-.07	3.48	3.32	.16	.362	-.136	.879	17.25
42.	3.52	3.61	-.09	1.62	1.70	-.07	3.59	3.45	.14	.328	-.150	.885	17.50
43.	3.59	3.68	-.08	1.65	1.72	-.07	3.76	3.55	.21	.306	-.168	.887	17.50
44.	3.73	3.75	-.01	1.70	1.78	-.08	3.69	3.59	.09	.323	-.159	.883	17.58
45.	3.71	3.81	-.09	1.82	1.85	-.04	3.78	3.89	-.11	.198	-.283	.884	16.68
46.	3.80	3.84	-.04	1.85	1.90	-.06	4.85	4.17	.68	.053	-.397	.891	16.10
47.	3.83	3.87	-.05	1.87	1.90	-.03	3.74	3.88	-.14	.245	-.247	.879	16.70
48.	3.88	3.95	-.08	1.81	1.85	-.04	3.66	3.61	.06	.411	-.063	.884	18.69
49.	4.09	4.04	.05	1.72	1.80	-.08	3.80	3.69	.11	.411	-.038	.895	19.67
50.	4.13	4.14	-.01	1.78	1.92	-.15	3.88	3.78	.11	.412	-.058	.886	18.93
51.	4.23	4.25	-.01	2.25	2.09	.16	3.89	3.82	.07	.442	-.056	.871	18.04
52.	4.31	4.37	-.06	1.91	2.02	-.11	3.91	3.83	.08	.480	.020	.887	19.49
53.	4.34	4.49	-.15	1.85	1.82	.03	3.91	3.86	.05	.524	.137	.916	22.68
54.	4.46	4.61	-.15	1.53	1.63	-.09	4.02	3.95	.07	.554	.235	.939	26.59
55.	4.49	4.72	-.23	1.44	1.58	-.13	4.20	4.10	.10	.537	.235	.946	27.56
56.	4.56	4.83	-.27	1.73	1.75	-.02	4.39	4.24	.16	.501	.158	.934	24.37
57.	4.68	4.95	-.27	1.90	1.92	-.02	4.48	4.32	.16	.506	.135	.929	22.52
58.	4.80	5.09	-.29	1.89	1.98	-.09	4.54	4.37	.17	.531	.164	.923	22.42
59.	4.93	5.24	-.31	1.96	2.13	-.17	4.67	4.51	.15	.520	.139	.915	20.98
60.	5.17	5.39	-.23	2.35	2.42	-.07	5.04	4.76	.28	.472	.026	.899	16.20
61.	5.33	5.55	-.22	2.59	2.69	-.11	5.27	5.05	.23	.425	-.066	.875	16.14
62.	5.72	5.71	.01	2.75	2.84	-.09	5.65	5.33	.32	.378	-.129	.870	15.11
63.	6.06	5.86	.20	2.78	2.85	-.07	5.84	5.53	.31	.354	-.140	.876	15.06
64.	6.08	6.01	.06	2.64	2.84	-.20	5.79	5.59	.20	.381	-.098	.883	15.43
65.	6.21	6.19	.02	2.99	2.99	-.07	5.76	5.62	.14	.423	-.065	.876	15.20
66.	6.39	6.39	-.00	3.14	3.27	-.14	5.87	5.79	.08	.432	-.088	.860	14.13
67.	6.73	6.62	.12	3.59	3.59	-.00	6.26	6.10	.16	.409	-.144	.844	13.09
68.	6.92	6.85	.07	3.75	3.78	-.03	6.54	6.43	.12	.383	-.180	.840	12.40
69.	7.11	7.07	.04	3.78	3.95	-.17	6.80	6.77	.03	.354	-.214	.838	11.93
70.	7.38	7.29	.09	4.29	4.28	.01	7.30	7.22	.08	.318	-.279	.826	11.02
71.	7.54	7.50	.04	4.57	4.55	.03	7.76	7.70	.06	.258	-.339	.821	10.39
72.	7.78	7.67	.11	4.61	4.60	.01	8.20	8.14	.06	.143	-.383	.832	10.24
73.	7.90	7.78	.12	4.51	4.59	-.08	8.57	8.59	-.02	.111	-.434	.847	10.19
74.	8.00	7.84	.16	4.69	4.71	-.02	9.07	8.97	.10	.043	-.488	.852	9.86
75.	7.98	7.88	.10	4.96	4.93	.04	9.14	9.08	.06	.051	-.499	.860	9.37
76.	8.02	7.96	.06	5.16	5.12	.04	8.85	8.83	.02	.143	-.461	.819	9.15
77.	8.27	8.15	.12	5.30	5.36	-.06	8.34	8.48	-.15	.265	-.377	.793	9.19
78.	8.64	8.44	.19	5.80	5.54	.26	8.23	8.26	-.03	.360	-.302	.780	9.52
79.	8.99	8.81	.18	5.42	5.41	.01	8.01	8.19	-.18	.410	-.211	.800	10.44
80.	8.18	9.19	-1.01	5.15	5.29	-.14	8.29	8.45	-.16	.422	-.167	.824	11.16
81.	9.76	9.55	.21	5.48	5.47	-.03	9.24	9.13	.11	.363	-.219	.830	10.93
82.	9.92	9.87	.05	5.70	5.64	.06	9.97	9.80	.16	.298	-.276	.835	10.67
83.	10.23	10.15	.08	5.59	5.74	-.14	10.27	10.23	.04	.268	-.295	.841	10.60
84.	10.54	10.43	.11	5.98	6.00	-.02	10.56	10.39	.17	.295	-.282	.834	10.59
85.	10.84	10.80	.05	6.41	6.59	-.18	10.23	10.30	-.08	.378	-.244	.806	10.35
86.	11.25	11.30	-.05	7.55	7.45	.10	10.23	10.30	-.08	.458	-.221	.765	9.96
87.	11.85	11.94	-.09	8.26	8.09	.17	11.56	10.60	-.04	.495	-.205	.749	9.86
88.	12.64	12.66	-.02	8.27	8.44	-.17	11.11	11.13	-.02	.503	-.186	.755	10.06
89.	13.44	13.44	.01	9.91	9.28	-.37	11.80	11.78	.01	.512	-.203	.737	9.72
90.	14.48	14.37	.11	10.99	10.99	-.01	12.49	12.48	.01	.543	-.256	.673	8.98

MONTH = 4 LATITUDE = 30

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	1.14	1.53	-.39	1.79	1.84	-.05	1.33	1.29	.04	.721	-.571	.157	7.56
23.	1.39	1.71	-.32	1.43	1.54	-.11	1.55	1.43	.12	.617	-.339	.531	8.06
24.	1.56	1.84	-.29	1.24	1.35	-.11	1.68	1.55	.13	.569	-.197	.604	10.61
25.	1.65	1.96	-.11	1.24	1.31	-.07	1.83	1.66	.16	.561	-.141	.740	11.62
26.	1.83	2.07	-.24	1.28	1.34	-.06	1.74	1.71	.03	.579	-.092	.765	12.35
27.	2.00	2.19	-.20	1.30	1.41	-.10	1.94	1.80	.14	.576	-.079	.769	12.63
28.	2.18	2.32	-.14	1.43	1.48	-.04	2.05	1.90	.14	.574	-.077	.772	12.78
29.	2.30	2.45	-.15	1.41	1.53	-.12	2.10	2.01	.08	.572	-.064	.782	13.15
30.	2.53	2.58	-.04	1.59	1.61	-.09	2.34	2.18	.16	.540	-.098	.785	12.98
31.	2.66	2.70	-.04	1.64	1.70	-.06	2.49	2.35	.14	.511	-.135	.787	12.69
32.	2.70	2.83	-.14	1.66	1.76	-.10	2.60	2.44	.16	.513	-.120	.786	12.98
33.	2.71	2.97	-.26	1.76	1.86	-.10	2.60	2.49	.10	.556	-.098	.783	13.42
34.	2.79	3.12	-.34	1.88	1.94	-.06	2.75	2.58	.17	.567	-.067	.784	13.77
35.	2.91	3.28	-.36	1.87	1.95	-.13	2.91	2.75	.15	.545	-.061	.804	14.20
36.	3.22	3.42	-.20	1.81	1.90	-.09	3.27	2.95	.32	.507	-.055	.832	15.03
37.	3.27	3.55	-.28	1.67	1.85	-.17	3.29	3.04	.25	.516	-.005	.864	16.20
38.	3.42	3.69	-.26	1.76	1.88	-.12	3.28	3.05	.23	.566	.068	.861	17.49
39.	3.51	3.84	-.33	1.83	1.93	-.10	3.33	3.10	.23	.593	.117	.866	18.38
40.	3.79	4.00	-.21	1.90	1.56	-.16	3.46	3.19	.27	.615	.157	.875	19.40
41.	3.76	4.16	-.40	1.90	2.01	-.11	3.56	3.28	.28	.634	.199	.881	20.29
42.	3.88	4.33	-.44	1.92	2.05	-.14	3.64	3.51	.13	.606	.155	.883	20.19
43.	4.31	4.48	-.17	1.92	2.05	-.13	4.40	3.79	.60	.536	.095	.880	19.88
44.	4.42	4.63	-.21	1.80	2.01	-.13	4.03	3.83	.20	.585	.175	.904	21.07
45.	4.53	4.78	-.25	1.83	1.96	-.13	4.08	3.81	.28	.651	.303	.921	25.31
46.	4.66	4.95	-.28	1.80	1.93	-.13	4.20	3.92	.28	.675	.355	.931	27.20
47.	4.82	5.11	-.29	1.83	1.95	-.12	4.36	4.02	.34	.694	.399	.937	28.79
48.	4.88	5.29	-.41	1.85	1.98	-.13	4.37	4.09	.28	.724	.452	.943	30.64
49.	5.21	5.48	-.27	1.89	2.01	-.12	4.54	4.19	.34	.746	.495	.948	32.30
50.	5.31	5.67	-.36	1.91	2.07	-.16	4.62	4.29	.34	.768	.539	.951	33.88
51.	5.44	5.88	-.44	2.05	2.13	-.08	4.70	4.41	.29	.793	.560	.954	34.88
52.	5.63	6.09	-.46	1.93	2.12	-.19	4.84	4.60	.23	.791	.587	.960	36.76
53.	6.44	6.31	.13	1.88	2.11	-.22	5.00	4.81	.21	.794	.605	.964	38.41
54.	5.99	6.53	-.53	2.01	2.21	-.20	5.26	4.95	.31	.796	.603	.963	37.72
55.	6.20	6.76	-.56	2.17	2.34	-.17	5.55	5.06	.48	.808	.618	.962	37.82
56.	6.37	7.02	-.65	2.21	2.43	-.22	5.86	5.24	.62	.819	.624	.963	37.56
57.	6.64	7.28	-.64	2.27	2.45	-.18	6.19	5.54	.64	.795	.597	.963	36.40
58.	6.86	7.54	-.67	2.11	2.44	-.34	6.51	5.83	.68	.782	.592	.965	36.67
59.	7.07	7.80	-.73	2.24	2.49	-.25	6.85	6.04	.81	.787	.603	.967	37.00
60.	7.51	8.07	-.57	2.23	2.60	-.37	7.23	6.28	.95	.773	.579	.965	35.36
61.	7.72	8.36	-.64	2.37	2.74	-.37	7.33	6.47	.86	.774	.578	.963	34.46
62.	8.20	8.67	-.47	2.44	2.89	-.45	7.69	6.64	1.05	.787	.592	.963	34.39
63.	8.87	9.00	-.12	2.56	2.99	-.43	8.41	6.90	1.51	.784	.588	.963	33.89
64.	9.64	9.32	.32	2.56	2.93	-.37	9.12	7.42	1.69	.739	.534	.964	30.62
65.	10.46	9.60	.86	2.31	2.78	-.47	10.22	8.26	1.96	.594	.359	.963	20.56
66.	10.58	9.80	.78	2.48	2.85	-.37	10.58	9.03	1.56	.407	.126	.957	25.55
67.	10.66	9.95	.71	2.47	2.74	-.27	10.87	9.60	1.26	.266	-.052	.940	28.00
68.	10.56	10.04	.51	3.18	3.07	.10	11.19	10.11	1.08	.132	-.173	.954	21.99
69.	10.52	10.07	.45	3.09	3.03	-.94	11.34	10.54	.80	-.006	-.294	.958	21.86
70.	10.59	10.06	.53	4.01	3.84	.17	11.62	10.89	.73	-.033	-.383	.936	17.03
71.	10.55	10.05	.50	4.50	4.70	-.19	11.62	11.12	.50	-.006	-.428	.886	13.77
72.	10.56	10.05	.51	5.25	5.14	-.09	11.66	11.25	.35	.007	-.460	.858	12.47
73.	10.57	10.05	.51	5.39	5.43	-.04	11.57	11.42	.16	.002	-.474	.880	11.76
74.	10.64	10.03	.61	5.51	6.52	-.01	11.77	11.57	.10	-.045	-.513	.881	11.30
75.	10.33	9.96	.37	5.49	5.56	-.07	11.46	11.48	-.03	-.121	-.565	.887	11.10
76.	10.27	9.82	.45	5.76	5.76	-.02	12.28	12.28	-.01	-.197	-.619	.887	10.66
77.	10.16	9.62	.54	6.21	6.05	.16	12.33	12.49	-.16	-.231	-.663	.882	9.96
78.	10.04	9.37	.68	6.35	6.14	.21	12.42	12.48	-.06	-.263	-.690	.880	9.57
79.	9.43	9.12	.31	6.13	6.10	.03	11.84	12.01	-.17	-.213	-.670	.868	9.14
80.	9.09	8.98	.12	6.38	6.55	-.17	10.86	11.48	-.62	-.071	-.626	.892	8.16
81.	9.57	8.94	.63	7.99	7.23	.77	11.26	11.43	-.16	.013	-.602	.776	7.26
82.	8.76	8.97	-.21	7.33	7.23	.11	11.15	11.37	-.22	.097	-.615	.772	7.27
83.	8.88	9.02	-.15	7.02	6.94	.07	10.79	11.02	-.23	.066	-.576	.770	7.58
84.	8.99	9.15	-.17	6.99	6.97	.02	10.48	10.64	-.15	.151	-.525	.762	7.70
85.	9.22	9.40	-.18	7.22	7.24	-.05	10.20	10.34	-.15	.248	-.474	.735	7.74
86.	9.66	9.76	-.10	7.64	7.61	.03	10.13	10.41	-.29	.301	-.449	.718	7.66
87.	9.94	10.18	-.24	8.21	8.03	-.02	10.99	10.65	.15	.309	-.451	.710	7.56
88.	10.66	10.67	-.01	8.54	8.84	-.30	11.19	11.38	-.19	.343	-.461	.677	7.24
89.	11.48	11.31	.17	10.29	10.61	-.32	11.84	12.06	-.21	.396	-.506	.680	6.49
90.	12.11	12.24	-.13	13.34	13.32	.01	13.34	13.35	-.01	.457	-.579	.461	5.76

MONTH = 4 LATITUDE = 50

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	1.01	1.64	-.63	1.21	1.25	-.07	1.30	1.22	.08	.679	-.133	.637	11.28
23.	1.72	1.78	-.06	1.33	1.38	-.05	1.66	1.46	.20	.597	-.221	.650	10.31
24.	1.81	1.91	-.09	1.32	1.44	-.13	1.66	1.57	.09	.590	-.201	.672	14.60
25.	1.91	2.04	-.14	1.46	1.52	-.06	1.75	1.62	.13	.621	-.152	.681	11.18
26.	2.01	2.20	-.19	1.49	1.58	-.09	1.75	1.65	.11	.665	-.073	.697	12.15
27.	2.21	2.36	-.16	1.53	1.62	-.10	1.77	1.70	.06	.693	.008	.727	13.24
28.	2.35	2.54	-.19	1.58	1.69	-.11	2.00	1.79	.21	.711	.064	.747	14.12
29.	2.50	2.74	-.24	1.69	1.81	-.11	1.89	1.78	.11	.766	.163	.759	15.67
30.	2.66	2.96	-.30	1.83	1.99	-.17	1.86	1.78	.08	.811	.229	.765	17.01
31.	2.83	3.26	-.39	2.12	2.21	-.08	2.08	1.87	.20	.826	.241	.747	17.48
32.	3.04	3.50	-.46	2.14	2.35	-.21	2.13	1.98	.15	.841	.296	.766	18.80
33.	3.27	3.78	-.52	2.28	2.41	-.13	2.39	2.25	.14	.827	.332	.769	19.42
34.	3.51	4.07	-.56	2.11	2.48	-.37	3.10	2.63	.47	.783	.268	.809	18.55
35.	3.87	4.35	-.48	2.52	2.75	-.23	3.22	2.92	.30	.750	.173	.781	16.96
36.	4.40	4.65	-.25	2.86	3.02	-.16	3.62	3.17	.45	.736	.126	.769	16.36
37.	4.57	4.96	-.39	2.79	3.08	-.30	3.74	3.37	.37	.744	.181	.792	17.54
38.	4.75	5.28	-.53	2.85	3.11	-.26	3.92	3.54	.38	.761	.257	.822	19.31
39.	5.35	5.60	-.25	2.91	3.21	-.29	4.17	3.76	.40	.766	.249	.837	20.29
40.	5.38	5.94	-.56	3.10	3.39	-.29	4.42	3.99	.43	.766	.291	.838	20.59
41.	5.61	6.30	-.69	3.36	3.56	-.20	4.64	4.17	.47	.780	.323	.845	21.47
42.	6.06	6.66	-.59	3.27	3.54	-.27	4.76	4.50	.27	.777	.363	.848	22.88
43.	6.76	7.00	-.25	3.12	3.41	-.28	5.75	4.92	.83	.764	.395	.835	24.71
44.	7.07	7.34	-.27	3.05	3.31	-.25	5.40	5.07	.32	.805	.514	.922	29.27
45.	7.41	7.69	-.28	3.04	3.26	-.21	5.60	5.18	.42	.856	.641	.946	36.06
46.	7.74	8.04	-.30	3.03	3.24	-.21	5.83	5.48	.35	.866	.680	.955	39.24
47.	8.00	8.40	-.39	2.99	3.25	-.26	6.07	5.84	.23	.860	.679	.950	39.96
48.	8.27	8.75	-.48	2.97	3.25	-.28	6.31	6.19	.12	.857	.686	.963	41.43
49.	8.74	9.10	-.36	2.93	3.25	-.31	6.74	6.61	.13	.839	.664	.964	40.93
50.	9.09	9.43	-.35	2.90	3.21	-.30	7.17	7.13	.04	.808	.608	.963	38.90
51.	9.47	9.74	-.28	2.72	3.10	-.37	7.61	7.61	.01	.773	.583	.966	39.28
52.	9.72	10.04	-.32	2.61	2.98	-.37	8.00	8.02	-.02	.758	.577	.970	40.64
53.	9.96	10.32	-.36	2.54	2.92	-.38	8.46	8.39	.07	.740	.563	.972	41.00
54.	10.23	10.60	-.36	2.53	2.96	-.43	8.86	8.70	.16	.724	.542	.972	40.42
55.	10.60	10.88	-.28	2.71	3.10	-.38	9.35	8.84	.51	.738	.558	.972	40.40
56.	10.86	11.19	-.33	2.83	3.24	-.41	9.76	8.93	.83	.772	.605	.973	41.58
57.	11.19	11.52	-.33	2.95	3.32	-.37	10.24	9.22	1.02	.769	.601	.973	41.00
58.	11.54	11.86	-.32	2.92	3.33	-.41	10.76	9.65	1.11	.743	.568	.973	39.70
59.	11.81	12.19	-.38	2.93	3.27	-.35	11.11	10.03	1.08	.736	.567	.975	41.54
60.	12.26	12.51	-.24	2.73	3.17	-.44	11.43	10.46	.97	.719	.557	.978	41.40
61.	12.52	12.81	-.30	2.73	3.15	-.42	11.53	10.92	.61	.679	.508	.977	39.84
62.	13.07	13.12	-.05	2.79	3.23	-.46	11.97	11.14	.84	.690	.523	.978	40.11
63.	13.27	13.44	-.17	2.90	3.26	-.36	12.29	11.31	.99	.724	.573	.980	42.27
64.	14.00	13.76	.24	2.78	3.18	-.40	13.06	11.80	1.28	.688	.539	.981	41.67
65.	14.86	14.04	.82	2.77	3.14	-.37	14.38	12.58	1.80	.555	.370	.978	37.35
66.	15.01	14.26	.75	2.96	3.25	-.29	14.92	13.35	1.58	.387	.169	.974	32.56
67.	15.08	14.42	.66	3.23	3.40	-.16	15.23	13.93	1.30	.261	.035	.970	29.85
68.	15.02	14.52	.49	3.20	3.13	.07	15.33	14.31	1.03	.174	-.040	.977	31.67
69.	14.96	14.58	.37	2.14	2.93	-.79	15.46	14.64	.83	.083	-.118	.980	33.15
70.	15.06	14.61	.46	3.69	3.56	.14	15.64	14.95	.69	.024	-.214	.971	27.07
71.	15.02	14.62	.41	4.15	4.27	-.13	15.73	15.22	.51	.002	-.278	.960	22.23
72.	15.01	14.61	.40	4.58	4.65	-.07	15.84	15.46	.39	-.029	-.328	.954	20.24
73.	14.95	14.57	.39	4.87	4.90	-.03	15.96	15.72	.25	-.076	-.382	.951	19.04
74.	14.91	14.48	.44	4.95	4.97	-.02	16.19	16.03	.16	-.159	-.453	.952	18.65
75.	14.62	14.30	.32	4.90	4.99	-.09	16.50	16.41	.10	-.278	-.547	.956	19.69
76.	14.36	14.03	.34	5.08	5.20	-.11	16.82	16.75	.07	-.390	-.637	.958	18.11
77.	14.08	13.65	.43	5.68	5.59	.09	16.98	16.95	.02	-.457	-.697	.956	16.72
78.	13.71	13.21	.50	5.98	5.89	.09	16.85	16.81	.04	-.470	-.720	.951	15.25
79.	13.10	12.77	.33	6.10	6.09	.01	16.09	16.25	-.16	-.410	-.697	.940	13.59
80.	12.76	12.39	.37	6.46	6.60	-.14	15.30	15.69	-.39	-.306	-.657	.916	11.46
81.	12.62	12.07	.55	7.76	7.16	.60	15.20	15.42	-.22	-.237	-.649	.893	9.96
82.	11.88	11.76	.12	7.17	7.14	.03	14.95	15.27	-.32	-.261	-.659	.882	9.63
83.	11.68	11.38	.30	7.05	6.96	.09	14.83	15.26	-.43	-.347	-.715	.904	9.76
84.	11.48	10.91	.57	7.17	7.09	.08	15.19	15.16	.04	-.391	-.749	.883	9.20
85.	10.03	10.45	-.42	7.59	7.49	.10	14.13	14.61	-.47	-.307	-.732	.873	7.98
86.	9.66	10.08	-.42	8.19	8.04	.15	13.90	14.15	-.25	-.210	-.718	.832	6.91
87.	9.55	9.81	-.25	8.58	8.55	.03	13.98	13.93	.04	-.149	-.713	.795	6.21
88.	9.66	9.65	.01	9.07	9.24	-.16	13.50	13.64	-.14	-.043	-.708	.736	5.54
89.	10.03	9.72	.31	10.40	10.73	-.32	13.33	13.66	-.33	.110	-.707	.625	4.81
90.	9.76	10.18	-.42	13.24	13.18	.06	14.22	14.29	-.07	.273	-.728	.461	4.21

MONTH = 4 LATITUDE = 70
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	R01	R02	R03	DEPTH
22.	2.45	2.47	-.02	1.98	1.98	-.00	2.31	2.31	.00	.490	-.345	.658	9.2%
23.	2.71	2.61	.10	1.94	1.94	-.00	2.31	2.41	-.10	.471	-.295	.709	9.9%
24.	2.95	2.75	.21	1.93	2.03	-.10	2.67	2.60	.00	.445	-.313	.713	9.7%
25.	3.09	2.98	.10	2.40	2.26	.13	2.63	2.67	-.04	.439	-.316	.673	9.6%
26.	3.16	3.10	.06	2.48	2.43	.04	2.59	2.63	-.03	.571	-.252	.650	10.0%
27.	3.20	3.33	-.13	2.55	2.52	.03	2.52	2.56	-.04	.648	-.142	.662	11.2%
28.	3.20	3.61	-.41	2.63	2.63	.01	2.50	2.49	.01	.723	-.007	.686	12.8%
29.	3.36	3.91	-.55	2.65	2.67	-.02	2.47	2.55	-.08	.762	.123	.736	14.6%
30.	3.86	4.22	-.36	2.51	2.63	-.12	2.99	2.80	.19	.761	.208	.778	16.0%
31.	4.02	4.53	-.51	2.46	2.60	-.12	3.19	3.03	.16	.768	.290	.836	17.7%
32.	4.22	4.84	-.62	2.46	2.52	-.06	3.39	3.20	.18	.779	.439	.882	20.0%
33.	4.44	5.14	-.70	2.06	2.37	-.31	3.56	3.42	.13	.834	.561	.924	26.0%
34.	4.61	5.44	-.83	2.06	2.41	-.35	3.85	3.60	.24	.855	.622	.938	28.0%
35.	5.01	5.77	-.76	2.44	2.74	-.30	4.23	3.75	.48	.846	.572	.921	26.4%
36.	5.69	6.14	-.45	2.89	3.10	-.21	4.53	3.92	.61	.838	.521	.909	24.5%
37.	5.91	6.53	-.63	2.95	3.25	-.30	4.63	4.12	.51	.855	.567	.912	26.6%
38.	6.15	6.94	-.80	2.94	3.31	-.37	4.95	4.39	.56	.869	.621	.928	29.3%
39.	6.69	7.36	-.68	3.06	3.46	-.40	5.20	4.68	.52	.859	.629	.931	30.2%
40.	6.76	7.81	-1.05	3.27	3.67	-.40	5.60	4.90	.70	.870	.661	.934	31.7%
41.	7.07	8.27	-1.20	3.50	3.89	-.39	6.03	5.17	.77	.883	.661	.936	32.6%
42.	7.48	8.76	-1.27	3.50	4.07	-.57	6.09	5.51	.58	.882	.664	.938	33.3%
43.	7.84	9.26	-1.41	3.55	4.26	-.70	6.42	5.86	.56	.883	.667	.939	34.0%
44.	8.17	9.78	-1.61	3.67	4.49	-.81	6.67	6.22	.45	.878	.659	.939	34.0%
45.	8.63	10.31	-1.67	3.64	4.62	-.97	6.99	6.67	.32	.873	.656	.941	34.6%
46.	9.23	10.83	-1.60	3.47	4.58	-1.11	7.50	7.28	.22	.860	.650	.942	35.2%
47.	9.85	11.33	-1.48	3.23	4.42	-1.19	8.20	7.93	.26	.849	.655	.946	37.1%
48.	10.46	11.81	-1.35	3.07	4.28	-1.21	8.97	8.50	.47	.846	.671	.953	39.7%
49.	11.36	11.78	-.43	3.08	4.21	-1.13	10.07	9.41	.66	.845	.410	.945	39.7%
50.	12.08	12.70	-.62	2.81	4.00	-1.18	11.05	9.99	1.06	.761	.569	.966	38.3%
51.	12.91	13.07	-.16	2.69	3.78	-1.09	11.99	10.56	1.43	.746	.546	.971	40.2%
52.	13.52	13.42	.10	2.57	3.54	-.97	12.74	11.16	1.58	.716	.543	.975	41.8%
53.	14.23	13.73	.50	2.30	3.27	-.97	13.75	11.73	2.02	.686	.524	.979	44.4%
54.	14.97	14.01	.96	2.25	3.10	-.85	14.60	12.21	2.39	.656	.499	.981	45.8%
55.	15.74	14.26	1.48	2.20	3.01	-.81	15.51	12.57	2.94	.635	.481	.983	46.8%
56.	16.34	14.52	1.82	2.20	3.04	-.84	16.22	12.81	3.42	.636	.482	.984	46.7%
57.	17.07	14.79	2.28	2.40	3.20	-.80	17.05	12.86	4.19	.673	.525	.983	46.6%
58.	17.56	15.08	2.48	2.50	3.28	-.78	17.56	13.12	4.44	.668	.518	.981	45.6%
59.	18.05	15.38	2.67	2.43	3.26	-.82	17.84	13.43	4.41	.668	.522	.984	46.2%
60.	18.09	15.68	2.40	2.47	3.35	-.88	17.44	13.69	3.75	.644	.515	.983	45.1%
61.	18.17	16.01	2.16	2.76	3.62	-.86	17.13	13.78	3.35	.687	.536	.982	43.6%
62.	17.92	16.38	1.54	2.81	3.83	-1.02	16.80	13.89	2.90	.717	.569	.981	43.2%
63.	17.59	16.76	.83	2.90	3.91	-1.01	16.26	14.46	1.81	.666	.501	.979	40.2%
64.	17.46	17.15	.31	2.78	4.13	-1.35	16.06	14.67	1.39	.678	.511	.978	39.0%
65.	21.38	17.62	3.76	3.57	4.81	-1.24	19.70	14.33	5.37	.756	.594	.974	39.2%
66.	21.63	18.16	3.46	3.74	5.07	-1.33	20.28	14.76	5.52	.748	.577	.974	38.6%
67.	21.84	17.93	3.91	3.73	4.89	-1.15	20.68	15.86	5.02	.536	.209	.966	29.2%
68.	22.03	19.26	2.77	3.48	4.52	-1.05	21.13	16.41	4.72	.700	.546	.980	33.8%
69.	23.80	19.71	4.08	3.45	4.34	-.88	21.42	17.12	4.30	.660	.515	.982	48.3%
70.	22.35	20.15	2.20	3.64	4.42	-.78	21.72	17.69	4.03	.634	.470	.981	36.5%
71.	22.50	20.60	1.90	4.04	4.71	-.67	22.07	17.83	4.24	.662	.501	.980	37.7%
72.	22.65	21.03	1.62	4.53	4.99	-.46	22.39	19.06	3.34	.498	.285	.974	31.1%
73.	22.75	21.36	1.39	4.53	4.90	-.37	22.83	20.20	2.63	.345	.122	.970	29.4%
74.	22.80	21.55	1.25	4.13	4.67	-.54	23.46	21.35	2.11	.151	-.066	.975	29.3%
75.	22.67	21.57	1.10	4.50	4.84	-.34	24.16	22.50	1.67	-.003	-.285	.977	27.8%
76.	22.39	21.41	.98	5.08	5.26	-.19	24.92	23.55	1.37	-.304	-.500	.977	26.2%
77.	21.95	21.08	.87	5.39	5.58	-.19	25.42	24.03	1.39	-.433	-.612	.978	25.3%
78.	21.49	20.67	.81	5.64	5.80	-.16	25.37	23.76	1.61	-.432	-.622	.975	23.7%
79.	20.93	20.24	.68	5.86	5.98	-.12	24.83	23.49	1.34	-.436	-.633	.973	22.2%
80.	20.16	19.76	.42	6.12	6.26	-.14	24.49	23.46	1.03	-.498	-.678	.973	21.1%
81.	19.43	19.20	.24	6.71	6.77	-.06	24.24	23.42	.82	-.516	-.713	.969	19.0%
82.	18.68	18.56	.12	7.48	7.29	.20	24.18	23.21	.97	-.522	-.731	.963	16.9%
83.	18.16	17.87	.29	7.54	7.44	.09	23.26	22.77	.48	-.548	-.751	.961	16.0%
84.	17.48	17.10	.38	7.46	7.61	-.16	22.94	22.49	.46	-.597	-.792	.962	15.4%
85.	15.82	16.19	-.36	8.52	8.61	-.09	21.94	22.67	-.74	-.632	-.835	.956	13.3%
86.	15.00	15.11	-.12	10.85	10.14	.70	22.60	22.67	-.26	-.625	-.857	.938	10.3%
87.	13.38	13.92	-.55	11.35	11.10	.25	22.21	22.38	-.17	-.595	-.865	.917	8.4%
88.	12.48	12.74	-.26	11.57	11.27	.30	21.08	21.12	-.04	-.546	-.863	.895	7.2%
89.	11.71	11.70	.01	11.00	11.50	-.49	19.33	19.61	-.27	-.426	-.842	.845	6.0%
90.	10.70	11.00	-.30	12.65	12.61	.04	18.27	18.32	-.05	-.201	-.683	.778	5.7%

MONTH = 4 LATITUDE = 90

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE ORIG	PRESSURE NEW	PRESSURE DIF	TEMPERATURE ORIG	TEMPERATURE NEW	TEMPERATURE DIF	DENSITY ORIG	DENSITY NEW	DENSITY DIF	CORRELATION COEFFICIENTS RPT	RTD	RPD	DEPTH
22.	2.77	2.69	.07	2.18	2.17	.00	2.56	2.56	-.00	.463	-.[illegible]	.659	9.92
23.	2.97	2.85	.12	2.10	2.10	.00	2.49	2.64	-.15	.465	-.284	.709	9.63
24.	3.25	3.00	.24	2.09	2.20	-.11	2.93	2.94	.09	.436	-.312	.719	9.38
25.	3.39	3.18	.21	2.64	2.47	.17	2.86	2.92	-.06	.498	-.314	.675	8.98
26.	3.45	3.41	.05	2.73	2.67	.06	2.82	2.86	-.05	.579	-.243	.650	9.69
27.	3.47	3.68	-.21	2.81	2.78	.03	2.73	2.76	-.03	.667	-.117	.662	11.00
28.	3.[illegible]	4.00	-.57	2.90	2.90	.00	2.64	2.64	.00	.753	.041	.691	13.23
29.	3.[illegible]	4.36	-.76	2.90	2.94	-.04	2.64	2.71	-.07	.793	.199	.749	15.58
30.	4.18	4.72	-.53	2.70	2.86	-.16	3.29	3.00	.29	.794	.294	.815	17.60
31.	4.35	5.06	-.71	2.59	2.77	-.19	3.49	3.25	.23	.809	.406	.865	20.53
32.	4.55	5.39	-.85	2.55	2.65	-.09	3.71	3.51	.20	.832	.525	.909	24.76
33.	4.76	5.71	-.94	1.98	2.48	-.50	3.87	3.87	-.01	.859	.596	.937	28.96
34.	4.84	6.02	-1.18	2.02	2.64	-.62	4.06	4.04	.03	.047	.611	.958	29.04
35.	5.58	6.37	-.79	2.71	3.13	-.43	4.68	3.99	.70	.865	.598	.910	28.76
36.	6.27	6.78	-.51	3.[illegible]	3.54	-.46	4.91	4.05	.86	.876	.592	.907	28.48
37.	6.59	7.22	-.63	3.23	3.73	-.50	5.02	4.35	.66	.876	.548	.910	29.16
38.	6.80	7.67	-.88	3.17	3.81	-.64	5.36	4.69	.67	.879	.626	.922	31.18
39.	7.43	8.14	-.70	3.30	3.96	-.66	5.64	5.00	.64	.884	.644	.928	32.62
40.	7.47	8.62	-1.15	3.54	4.23	-.69	6.11	5.30	.81	.878	.628	.934	32.22
41.	7.85	9.12	-1.27	3.80	4.48	-.67	6.51	5.59	.93	.891	.637	.936	33.18
42.	8.23	9.64	-1.41	3.76	4.66	-.90	6.66	5.90	.76	.889	.663	.932	34.31
43.	8.59	10.18	-1.59	3.88	4.92	-1.04	6.90	6.25	.64	.886	.656	.931	35.43
44.	8.97	10.74	-1.78	4.06	5.20	-1.13	7.26	6.57	.69	.889	.663	.[illegible]	36.34
45.	9.51	11.32	-1.81	4.05	5.31	-1.26	7.62	7.02	.60	.890	.679	.939	38.37
46.	10.20	11.88	-1.68	3.81	5.20	-1.39	8.20	7.73	.47	.877	.674	.946	39.08
47.	10.92	12.42	-1.50	3.52	4.94	-1.43	9.02	8.51	.51	.865	.682	.957	41.36
48.	11.60	12.92	-1.32	3.31	4.73	-1.43	9.93	9.16	.77	.863	.699	.965	44.64
49.	12.61	13.39	-.78	3.32	4.62	-1.30	11.17	10.16	1.00	.786	.581	.960	38.95
50.	13.41	13.81	-.40	3.01	4.36	-1.35	12.25	10.76	1.49	.781	.587	.967	42.40
51.	14.35	14.21	.14	2.84	4.12	-1.23	13.30	11.34	1.96	.771	.604	.977	44.61
52.	15.03	14.57	.46	2.74	3.83	-1.09	14.13	11.99	2.13	.746	.587	.977	46.37
53.	15.84	14.91	.93	2.38	3.47	-1.09	15.27	12.63	2.65	.723	.579	.982	48.78
54.	16.67	15.21	1.46	2.33	3.24	-.92	16.23	13.15	3.08	.698	.561	.984	51.61
55.	17.53	15.49	2.04	2.20	3.09	-.89	17.26	13.56	3.70	.686	.554	.986	53.36
56.	18.19	15.15	3.04	2.17	3.08	-.91	18.06	14.43	3.62	.328	.131	.979	34.63
57.	18.97	16.03	2.94	2.39	3.26	-.87	18.95	14.43	4.52	.568	.405	.983	44.79
58.	19.50	16.28	3.22	2.52	3.36	-.84	19.50	14.59	4.92	.582	.419	.982	45.78
59.	20.01	16.55	3.46	2.40	3.32	-.92	19.74	14.90	4.84	.573	.413	.983	44.01
60.	20.02	16.12	3.91	2.48	3.46	-.97	19.25	15.19	4.06	.368	.163	.977	35.66
61.	20.11	16.49	3.63	2.86	3.80	-.94	18.89	15.28	3.61	.423	.208	.974	33.50
62.	19.69	17.63	2.06	2.98	4.03	-1.13	18.37	15.36	3.01	.641	.474	.980	39.29
63.	19.47	18.04	1.43	2.99	4.12	-1.13	17.95	15.30	2.64	.728	.589	.983	43.40
64.	19.29	18.50	.79	2.99	4.41	-1.43	17.65	15.65	2.00	.715	.563	.980	39.90
65.	23.15	19.03	4.12	3.81	5.13	-1.32	21.18	15.51	5.66	.757	.597	.976	37.36
66.	23.42	19.64	3.78	3.97	5.36	-1.39	21.78	16.04	5.74	.746	.578	.975	35.39
67.	23.67	19.33	4.35	3.88	5.09	-1.21	22.45	17.27	5.18	.513	.279	.967	27.95
68.	23.91	20.05	3.86	3.56	4.73	-1.17	23.73	18.45	4.29	.443	.225	.973	29.31
69.	26.09	21.40	4.69	3.79	4.59	-.80	23.07	18.80	4.27	.639	.482	.982	36.86
70.	24.29	21.86	2.43	3.62	4.50	-.88	23.40	19.58	3.82	.593	.421	.980	35.60
71.	24.49	22.34	2.15	4.01	4.68	-.67	23.81	19.53	4.29	.664	.525	.984	37.97
72.	24.68	22.82	1.86	4.51	4.92	-.41	24.19	20.74	3.45	.511	.325	.979	31.73
73.	24.81	23.16	1.64	4.42	4.72	-.30	24.70	22.08	2.62	.326	.128	.979	30.36
74.	24.88	23.32	1.55	3.82	4.39	-.57	25.43	23.42	2.01	.073	-.115	.982	31.04
75.	24.78	23.28	1.50	4.36	4.64	-.28	26.22	24.48	1.74	-.165	-.347	.982	29.48
76.	24.48	23.08	1.40	5.07	5.15	-.07	27.09	25.16	1.93	-.311	-.490	.981	27.62
77.	24.01	22.76	1.25	5.29	5.43	-.13	27.67	25.40	2.27	-.396	-.568	.981	27.00
78.	23.51	22.39	1.12	5.52	5.59	-.07	27.64	25.21	2.43	-.411	-.597	.979	26.23
79.	22.95	21.98	.97	5.78	5.75	.02	27.12	25.10	2.02	-.450	-.624	.979	25.82
80.	22.08	21.52	.56	6.00	5.93	.07	26.28	25.09	1.19	-.513	-.676	.979	25.84
81.	21.22	20.98	.25	6.33	6.40	-.08	26.58	25.09	1.48	-.554	-.718	.977	25.50
82.	20.45	20.32	.13	7.59	7.08	.51	26.55	25.18	1.37	-.594	-.761	.974	26.90
83.	18.16	19.56	-1.40	7.69	7.38	.31	25.45	24.83	.61	-.623	-.787	.973	19.34
84.	19.06	18.72	.34	7.54	7.62	-.08	25.00	24.29	.71	-.635	-.803	.970	17.70
85.	17.32	17.78	-.46	8.80	8.83	-.03	24.98	24.35	-.37	-.633	-.825	.960	14.24
86.	16.35	16.68	-.33	11.60	10.63	.97	24.84	24.65	.18	-.610	-.844	.940	10.78
87.	14.43	15.43	-1.00	12.13	11.65	.48	24.34	24.41	-.06	-.618	-.868	.927	9.16
88.	13.28	14.07	-.78	12.29	11.62	.67	23.06	23.36	-.30	-.651	-.889	.926	8.60
89.	12.22	12.76	-.53	11.20	11.54	-.34	20.96	21.54	-.59	-.571	-.874	.898	7.28
90.	10.99	11.78	-.79	12.44	12.35	.09	19.43	19.58	-.15	-.316	-.821	.801	5.44

MONTH = 5 LATITUDE = 10

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RSD	DPDT
22.	.96	1.03	-.07	1.10	1.11	-.01	1.42	1.41	.01	.139	-.691	.625	5.80
23.	1.01	1.07	-.06	1.35	1.30	.05	1.31	1.40	-.09	.319	-.687	.469	5.46
24.	1.03	1.14	-.11	1.35	1.40	-.05	1.62	1.52	.11	.300	-.692	.477	5.47
25.	1.00	1.21	-.21	1.44	1.50	-.06	1.65	1.56	.08	.350	-.687	.430	5.58
26.	1.05	1.32	-.27	1.55	1.61	-.06	1.60	1.48	.12	.502	-.639	.345	6.19
27.	1.08	1.45	-.37	1.50	1.60	-.11	1.52	1.34	.18	.620	-.584	.343	7.61
28.	1.13	1.61	-.49	1.30	1.55	-.25	1.40	1.19	.20	.716	-.398	.425	9.02
29.	1.28	1.79	-.51	1.33	1.60	-.27	1.41	1.07	.33	.806	-.146	.468	12.78
30.	1.34	2.00	-.66	1.46	1.74	-.28	1.31	.96	.35	.877	.018	.497	16.39
31.	1.50	2.23	-.73	1.45	1.83	-.38	1.35	.98	.37	.909	.184	.590	18.46
32.	1.88	2.48	-.59	1.50	1.94	-.44	2.00	1.15	.85	.893	.236	.649	18.06
33.	2.00	2.73	-.73	1.64	2.06	-.42	2.11	1.27	.84	.807	.304	.694	21.28
34.	2.09	3.00	-.91	1.66	2.16	-.50	2.22	1.40	.81	.903	.388	.749	23.19
35.	2.99	3.26	-.27	1.77	2.23	-.46	2.88	1.72	1.16	.869	.354	.770	21.71
36.	2.94	3.52	-.58	1.83	2.23	-.39	2.04	2.05	-.99	.840	.358	.887	21.51
37.	3.06	3.77	-.71	1.77	2.19	-.42	2.99	2.24	.76	.859	.456	.857	24.34
38.	3.16	4.03	-.87	1.77	2.21	-.44	3.03	2.38	.66	.867	.539	.887	27.51
39.	3.22	4.29	-1.06	1.72	2.30	-.57	3.10	2.48	.61	.836	.603	.905	30.77
40.	3.30	4.57	-1.26	1.83	2.43	-.61	3.18	2.58	.60	.904	.656	.916	33.71
41.	3.38	4.88	-1.50	1.72	2.83	-1.11	3.28	2.56	.72	.914	.639	.893	33.61
42.	3.46	5.25	-1.79	2.53	3.34	-.81	3.51	2.52	1.00	.933	.566	.859	31.64
43.	7.23	5.63	1.60	2.42	3.28	-.86	7.25	3.07	4.17	.894	.572	.879	29.90
44.	7.29	5.96	1.33	2.16	2.85	-.69	7.24	4.06	3.19	.901	.475	.907	27.53
45.	7.29	6.22	1.07	2.04	2.56	-.52	7.28	4.42	2.46	.698	.358	.923	26.69
46.	7.32	6.42	.90	1.97	2.40	-.43	7.26	5.34	1.92	.901	.273	.933	26.50
47.	7.34	6.59	.75	1.97	2.37	-.40	7.26	5.72	1.54	.924	.198	.936	26.98
48.	7.28	6.74	.54	2.17	2.52	-.35	7.25	6.02	1.23	.957	.093	.928	23.94
49.	7.49	6.85	.60	2.50	2.70	-.20	7.29	6.27	1.02	.913	.029	.930	22.36
50.	7.51	7.02	.49	2.47	2.80	-.33	7.30	6.47	.83	.886	-.019	.917	21.82
51.	7.57	7.15	.42	2.79	2.79	-.08	7.35	6.66	.69	.866	-.097	.901	21.91
52.	7.61	7.27	.34	2.38	2.70	-.33	7.41	6.82	.59	.847	-.026	.928	22.76
53.	7.67	7.39	.27	2.62	2.80	-.18	7.41	6.97	.44	.835	-.046	.926	23.00
54.	7.76	7.51	.25	2.96	3.07	.09	7.54	7.15	.38	.819	-.073	.926	24.63
55.	7.81	7.61	.20	2.40	2.55	-.15	7.67	7.37	.30	.262	-.076	.942	24.12
56.	7.99	7.68	.31	2.25	2.21	-.16	7.86	7.60	.27	.181	-.109	.958	27.27
57.	8.02	7.72	.30	2.06	2.11	-.05	8.04	7.79	.24	.191	-.171	.963	28.04
58.	8.11	7.73	.38	2.08	2.17	-.09	8.06	8.01	.05	.013	-.259	.967	26.96
59.	8.37	7.71	.66	2.31	2.31	-.00	8.44	8.36	.09	-.140	-.406	.963	25.19
60.	8.75	7.63	1.12	2.48	2.54	-.06	8.73	8.84	-.11	-.346	-.587	.963	24.59
61.	9.07	7.47	1.60	2.98	2.80	.18	9.24	9.27	-.03	-.592	-.731	.967	22.76
62.	9.78	7.24	2.55	3.00	2.91	.09	9.82	9.37	.45	-.642	-.806	.971	23.09
63.	10.12	6.99	3.13	3.01	2.95	.07	10.10	8.95	1.15	-.550	-.768	.962	19.88
64.	11.67	6.75	4.92	3.17	2.80	.37	11.70	8.71	2.98	-.594	-.789	.965	20.68
65.	6.93	6.67	.71	2.97	2.63	.34	6.50	7.04	-1.54	.040	-.336	.928	17.08
66.	6.12	6.71	-.60	3.18	2.77	.41	6.60	6.40	.20	.319	-.099	.917	17.01
67.	6.47	6.85	-.39	3.61	3.13	.48	6.01	6.59	-.58	.312	-.151	.892	15.09
68.	6.67	7.01	-.34	3.77	3.41	.36	6.27	6.79	-.52	.307	-.185	.878	13.80
69.	6.91	7.18	-.27	3.87	3.67	.20	6.52	7.01	-.50	.300	-.216	.867	12.91
70.	7.15	7.36	-.20	4.30	4.02	.28	7.00	7.38	-.37	.269	-.278	.851	11.73
71.	7.33	7.52	-.19	4.58	4.31	.27	7.50	7.80	-.30	.231	-.308	.842	10.86
72.	7.59	7.66	-.07	4.68	4.48	.20	7.94	8.20	-.25	.169	-.387	.848	10.63
73.	7.73	7.75	-.01	4.48	4.42	.06	8.31	8.59	-.28	.034	-.439	.855	10.50
74.	7.85	7.79	.06	4.67	4.57	.09	8.62	8.43	.19	.025	-.400	.859	10.06
75.	7.89	7.82	.07	4.96	4.83	.13	8.89	9.00	-.11	.044	-.408	.845	9.49
76.	7.94	7.90	.05	5.17	5.05	.13	8.68	8.72	-.11	.143	-.444	.820	9.29
77.	8.19	8.09	.09	5.30	5.31	-.01	7.67	8.30	-.23	.288	-.358	.791	9.25
78.	8.50	8.42	.08	5.46	5.51	.34	7.86	8.00	-.14	.432	-.266	.776	9.71
79.	8.94	8.82	.12	5.44	5.38	.06	7.65	7.91	-.26	.467	-.160	.790	10.80
80.	8.17	9.25	-1.07	5.11	5.20	-.09	8.05	8.22	-.18	.467	-.107	.829	11.74
81.	9.78	9.64	.14	5.25	5.31	-.06	9.02	8.95	.06	.401	-.161	.839	11.48
82.	10.03	9.90	.05	5.58	5.49	.08	9.82	9.68	.14	.330	-.208	.844	11.15
83.	10.36	10.28	.08	5.48	5.62	-.15	10.20	10.18	.02	.298	-.259	.845	11.07
84.	10.69	10.57	.12	5.90	5.91	-.02	10.60	10.45	.16	.301	-.262	.842	10.86
85.	10.99	10.93	.06	6.37	6.55	-.17	10.40	10.48	-.08	.367	-.241	.814	10.41
86.	11.40	11.43	-.03	7.56	7.44	.12	10.49	10.55	-.07	.439	-.230	.773	9.88
87.	12.00	12.05	-.05	8.30	8.10	.20	10.81	10.63	-.02	.479	-.215	.756	9.79
88.	12.72	12.75	-.04	8.26	8.40	-.14	11.20	11.26	-.06	.497	-.183	.762	9.96
89.	13.50	13.53	-.04	8.78	9.13	-.35	11.83	11.82	.01	.513	-.194	.749	9.81
90.	14.53	14.46	.06	10.67	10.68	-.00	12.43	12.42	.01	.547	-.253	.694	9.19

MONTH = 5 LATITUDE = 30

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	1.67	1.53	.14	1.17	1.16	.01	1.89	1.90	-.01	.726	-.591	.791	4.3%
23.	1.54	1.55	-.01	1.32	1.24	.07	1.94	1.89	.05	.893	-.582	.756	7.9%
24.	1.44	1.57	-.14	1.19	1.25	-.05	1.76	1.83	-.07	.177	-.531	.740	8.2%
25.	1.58	1.61	-.03	1.28	1.28	-.00	1.86	1.83	.02	.209	-.513	.732	8.41
26.	1.69	1.65	.03	1.33	1.32	.01	1.91	1.84	.07	.248	-.492	.722	8.55
27.	1.60	1.72	-.12	1.29	1.36	-.07	1.74	1.75	-.01	.373	-.411	.695	9.05
28.	1.60	1.81	-.22	1.47	1.45	.01	1.69	1.63	.06	.523	-.312	.647	9.80
29.	1.64	1.94	-.30	1.46	1.56	-.10	1.56	1.58	-.02	.613	-.236	.623	10.64
30.	1.81	2.09	-.28	1.61	1.67	-.06	1.80	1.66	.14	.629	-.217	.626	10.90
31.	1.98	2.25	-.27	1.62	1.74	-.12	1.94	1.76	.18	.637	-.174	.648	11.5%
32.	2.02	2.42	-.40	1.63	1.79	-.16	1.95	1.77	.18	.682	-.082	.673	12.7%
33.	2.22	2.60	-.38	1.72	1.88	-.16	1.97	1.78	.19	.728	.006	.689	14.1%
34.	2.37	2.80	-.44	1.80	1.94	-.15	2.10	1.85	.25	.754	.092	.723	15.5%
35.	2.55	2.99	-.45	1.71	1.94	-.23	2.24	2.28	-.04	.648	.001	.762	14.5%
36.	2.76	3.15	-.38	1.72	1.92	-.21	4.19	2.77	1.42	.488	-.140	.706	13.5%
37.	3.07	3.29	-.21	1.69	1.91	-.22	2.68	2.69	-.01	.575	-.009	.813	15.37
38.	3.23	3.45	-.21	1.75	1.90	-.15	2.65	2.57	.48	.678	.171	.840	18.30
39.	3.30	3.63	-.32	1.68	1.85	-.17	2.88	2.60	.27	.730	.306	.874	21.40
40.	3.40	3.81	-.41	1.60	1.82	-.22	2.95	2.62	.33	.791	.454	.905	25.88
41.	3.52	4.01	-.48	1.73	1.91	-.18	3.06	2.74	.32	.798	.469	.907	26.56
42.	3.79	4.21	-.42	1.85	2.02	-.17	3.34	2.97	.38	.764	.402	.868	24.85
43.	4.05	4.40	-.35	1.86	2.03	-.17	3.73	3.16	.56	.751	.403	.907	25.62
44.	4.25	4.60	-.35	1.76	1.99	-.23	3.60	3.26	.34	.792	.508	.928	28.7%
45.	4.45	4.81	-.35	1.84	2.02	-.18	3.79	3.37	.41	.812	.587	.937	32.26
46.	4.59	5.02	-.43	1.92	2.15	-.23	4.00	3.59	.42	.784	.497	.928	29.70
47.	4.82	5.23	-.41	2.15	2.35	-.20	4.31	3.42	.48	.743	.402	.911	26.48
48.	4.57	5.45	-.88	2.33	2.46	-.12	4.57	4.03	.54	.731	.380	.909	25.99
49.	5.44	5.68	-.23	2.09	2.35	-.26	4.75	4.21	.54	.744	.458	.929	29.18
50.	5.67	5.89	-.21	2.00	2.23	-.23	5.03	4.47	.56	.747	.484	.943	31.90
51.	5.97	6.09	-.12	2.01	2.18	-.17	5.37	4.79	.58	.712	.450	.947	31.78
52.	6.15	6.28	-.13	1.94	2.18	-.24	5.64	4.98	.66	.712	.462	.952	32.62
53.	6.10	6.48	-.38	2.08	2.18	-.10	5.51	5.21	.30	.695	.446	.954	32.58
54.	6.87	6.66	.21	1.89	2.17	-.28	6.46	5.65	.81	.599	.309	.950	29.59
55.	6.72	6.81	-.09	2.17	2.27	-.10	6.46	5.95	.51	.534	.218	.946	27.3%
56.	7.26	6.97	.28	2.22	2.38	-.16	6.56	6.09	.47	.517	.201	.942	26.25
57.	7.61	7.13	-.12	2.29	2.45	-.15	6.80	6.26	.54	.507	.186	.942	25.64
58.	6.99	7.31	-.31	2.37	2.52	-.15	6.81	6.30	.52	.545	.231	.942	25.98
59.	6.84	7.50	-.66	2.42	2.62	-.20	6.72	6.36	.36	.578	.270	.942	26.11
60.	7.29	7.70	-.41	2.54	2.73	-.19	7.36	6.60	.76	.551	.229	.938	24.91
61.	7.66	7.91	-.25	2.59	2.88	-.28	7.62	6.88	.74	.516	.175	.934	23.38
62.	7.91	8.11	-.20	2.81	3.09	-.28	8.02	7.20	.82	.468	.009	.925	21.40
63.	8.17	8.32	-.14	3.07	3.29	-.22	8.50	7.39	1.11	.465	.079	.919	20.3%
64.	8.34	8.54	-.20	3.06	3.26	-.20	8.00	7.53	.47	.482	.114	.925	21.00
65.	9.20	8.73	.47	2.72	3.07	-.36	8.15	8.07	1.07	.383	.033	.936	21.3%
66.	9.32	8.87	.45	2.81	3.08	-.27	8.44	8.69	.75	.231	-.118	.939	20.21
67.	9.39	8.95	.44	3.12	3.29	-.17	8.78	9.12	.67	.134	-.229	.934	18.99
68.	9.33	9.00	.33	3.36	3.37	-.01	8.98	9.44	.54	.052	-.306	.934	17.71
69.	9.36	9.01	.35	3.00	3.48	-.48	10.06	9.68	.38	-.005	-.364	.933	16.92
70.	9.39	9.01	.38	4.06	4.02	.04	10.19	9.88	.30	-.004	-.410	.914	14.44
71.	9.44	9.02	.42	4.54	4.61	-.07	10.26	10.04	.21	.020	-.441	.889	12.37
72.	9.52	9.04	.48	4.97	4.97	.01	10.24	10.12	.12	.044	-.451	.872	11.36
73.	9.64	9.08	.55	5.21	5.18	.02	10.13	10.19	-.06	.058	-.457	.862	10.70
74.	9.80	9.12	.68	5.36	5.30	.06	10.26	10.39	-.12	.036	-.479	.860	10.44
75.	9.77	9.13	.65	5.47	5.44	.03	10.50	10.74	-.24	-.035	-.528	.862	10.02
76.	9.83	9.07	.76	5.87	5.70	.17	10.93	11.12	-.18	-.086	-.582	.860	9.45
77.	9.65	9.00	.66	6.23	6.05	.18	10.96	11.20	-.25	-.073	-.599	.843	8.7%
78.	9.12	8.96	.16	6.71	6.24	.46	10.55	10.86	-.31	.013	-.564	.818	8.32
79.	9.09	9.04	.05	6.26	6.13	.13	9.93	10.28	-.35	.123	-.488	.806	8.52
80.	9.06	9.22	-.16	6.15	6.21	-.06	9.41	9.94	-.52	.217	-.423	.793	8.64
81.	9.74	9.48	.25	7.00	6.52	.48	9.92	10.09	-.17	.249	-.413	.780	8.48
82.	9.60	9.77	-.17	6.58	6.50	.09	10.15	10.34	-.19	.242	-.399	.767	8.71
83.	9.92	10.04	-.12	6.37	6.34	.03	10.30	10.56	-.25	.232	-.380	.812	9.11
84.	10.23	10.29	-.06	6.45	6.49	-.04	10.80	10.95	-.16	.210	-.395	.815	9.09
85.	10.45	10.54	-.09	7.02	6.99	.04	11.39	11.48	-.08	.191	-.433	.802	8.50
86.	10.83	10.78	.04	7.71	7.64	.07	11.89	12.05	-.16	.179	-.474	.782	7.80
87.	11.17	11.06	.11	8.36	8.17	.19	12.64	12.34	.30	.204	-.480	.761	7.56
88.	11.32	11.44	-.12	8.51	8.63	-.13	11.81	12.17	-.36	.291	-.436	.734	7.54
89.	11.95	12.00	-.05	9.40	9.61	-.22	12.09	12.28	-.19	.371	-.420	.687	7.28
90.	12.53	12.78	-.25	11.33	11.30	.02	12.91	12.94	-.03	.438	-.450	.614	6.78

MONTH = 5 LATITUDE = 50
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	1.77	1.91	-.14	.92	.93	-.01	2.05	2.04	.01	.102	-.359	.892	13.40
23.	1.79	1.95	-.16	1.13	1.10	.03	1.86	1.86	-.00	.360	-.212	.835	12.44
24.	1.80	2.03	-.23	1.14	1.18	-.04	1.80	1.75	.05	.509	-.085	.814	13.07
25.	1.86	2.13	-.27	1.18	1.24	-.05	1.75	1.70	.05	.602	.026	.814	14.20
26.	1.92	2.25	-.33	1.24	1.30	-.07	1.81	1.69	.12	.668	.119	.818	15.35
27.	2.00	2.39	-.39	1.27	1.35	-.09	1.83	1.68	.14	.726	.230	.834	17.11
28.	2.07	2.55	-.48	1.26	1.41	-.15	1.89	1.68	.21	.780	.359	.857	19.74
29.	2.11	2.73	-.61	1.35	1.54	-.19	1.92	1.68	.24	.833	.439	.862	21.61
30.	2.21	2.92	-.71	1.53	1.71	-.18	2.05	1.87	.18	.797	.330	.834	19.20
31.	3.11	3.11	-.01	1.59	1.79	-.20	2.93	2.27	.66	.693	.161	.823	16.58
32.	3.19	3.29	-.10	1.56	1.79	-.23	2.99	2.54	.45	.642	.125	.841	16.66
33.	3.26	3.45	-.19	1.63	1.81	-.18	3.04	2.65	.39	.656	.171	.856	17.81
34.	3.42	3.62	-.20	1.65	1.85	-.20	3.15	2.76	.39	.666	.203	.866	18.72
35.	3.58	3.80	-.22	1.74	1.94	-.20	3.25	2.88	.37	.673	.214	.867	19.22
36.	3.73	3.98	-.26	1.92	2.05	-.13	3.32	2.98	.34	.686	.229	.866	19.61
37.	3.94	4.18	-.24	1.92	2.10	-.18	3.41	3.08	.34	.706	.276	.876	20.89
38.	4.13	4.38	-.26	1.95	2.17	-.21	3.51	3.20	.32	.720	.309	.882	21.91
39.	4.42	4.60	-.18	2.16	2.29	-.13	3.67	3.36	.31	.717	.299	.880	21.98
40.	4.43	4.82	-.39	2.20	2.40	-.20	3.87	3.52	.34	.716	.296	.879	22.17
41.	4.62	5.04	-.43	2.34	2.48	-.14	4.00	3.66	.35	.728	.325	.885	23.06
42.	4.88	5.28	-.39	2.33	2.51	-.18	4.10	3.85	.25	.734	.341	.892	24.13
43.	5.23	5.50	-.28	2.32	2.45	-.14	4.62	4.06	.55	.790	.525	.937	26.22
44.	5.43	5.73	-.30	2.16	2.36	-.20	4.34	4.13	.21	.826	.611	.951	31.81
45.	5.66	5.97	-.31	2.12	2.34	-.22	4.44	4.25	.19	.828	.616	.951	36.74
46.	5.88	6.21	-.33	2.22	2.43	-.21	4.63	4.42	.21	.830	.614	.950	37.04
47.	6.11	6.47	-.36	2.36	2.56	-.19	4.95	4.57	.38	.818	.598	.950	36.74
48.	5.85	6.73	-.88	2.50	2.62	-.12	5.25	4.83	.43	.810	.607	.958	36.21
49.	6.68	6.99	-.31	2.29	2.54	-.24	5.49	5.15	.33	.797	.612	.965	38.13
50.	6.86	7.23	-.37	2.14	2.39	-.24	5.68	5.52	.16	.758	.567	.967	40.84
51.	7.08	7.46	-.38	2.00	2.30	-.30	5.97	5.91	.06	.745	.555	.968	40.19
52.	7.27	7.67	-.40	2.00	2.31	-.31	6.31	6.15	.16	.768	.594	.971	40.01
53.	7.49	7.89	-.40	2.11	2.34	-.22	6.67	6.28	.39	.767	.588	.973	42.02
54.	7.82	8.12	-.30	2.00	2.35	-.35	7.11	6.49	.62	.745	.561	.970	42.61
55.	7.98	8.35	-.37	2.16	2.44	-.28	7.46	6.73	.72	.741	.549	.968	40.25
56.	8.56	8.59	-.03	2.26	2.58	-.32	7.75	6.90	.85	.756	.568	.968	38.44
57.	8.44	8.84	-.41	2.44	2.70	-.25	8.06	7.03	1.03	.767	.589	.970	38.37
58.	8.67	9.12	-.45	2.46	2.74	-.28	8.34	7.23	1.11	.759	.583	.972	38.62
59.	8.87	9.39	-.52	2.44	2.72	-.28	8.60	7.54	1.06	.739	.552	.971	38.24
60.	9.12	9.67	-.54	2.39	2.76	-.37	8.75	7.87	.88	.752	.572	.971	37.68
61.	9.50	9.95	-.46	2.55	2.92	-.37	8.94	7.99	.95	.776	.598	.970	37.40
62.	10.12	10.27	-.16	2.79	3.14	-.35	9.40	8.08	1.32	.739	.534	.967	34.61
63.	10.76	10.61	.15	2.92	3.20	-.28	9.98	8.55	1.43	.613	.382	.964	31.08
64.	11.28	10.91	.37	2.73	3.13	-.40	10.68	9.32	1.36	.450	.186	.961	27.71
65.	11.77	11.15	.62	2.86	3.12	-.26	11.49	10.13	1.36	.303	.083	.960	25.43
66.	11.91	11.32	.59	2.91	3.18	-.27	11.90	10.79	1.11	.201	-.083	.959	24.25
67.	11.96	11.44	.52	3.07	3.24	-.17	12.20	11.24	.96	.123	-.148	.963	24.68
68.	11.92	11.51	.40	3.08	3.12	-.05	12.29	11.55	.74	.057	-.205	.965	24.67
69.	11.94	11.56	.38	2.60	3.08	-.48	12.38	11.79	.59	.033	-.261	.956	21.48
70.	11.96	11.58	.38	3.50	3.50	-.00	12.45	11.99	.46	.031	-.303	.943	18.26
71.	11.97	11.60	.38	3.94	4.04	-.10	12.52	12.16	.36	.029	-.330	.934	16.58
72.	12.01	11.62	.40	4.35	4.39	-.04	12.55	12.30	.25	.021	-.353	.928	15.51
73.	12.05	11.64	.42	4.61	4.63	-.03	12.55	12.44	.11				
74.	12.13	11.64	.49	4.77	4.78	-.01	12.64	12.67	.01	-.021	-.396	.926	14.82
75.	12.06	11.58	.48	4.89	4.96	-.06	13.00	13.06	-.06	-.103	-.471	.926	14.10
76.	11.99	11.46	.53	5.32	5.29	.03	13.45	13.49	-.04	-.187	-.551	.923	12.97
77.	11.76	11.27	.49	5.82	5.71	.11	13.61	13.66	-.05	-.209	-.590	.913	11.64
78.	11.24	11.08	.15	6.20	5.96	.24	13.23	13.39	-.16	-.158	-.576	.898	10.64
79.	11.07	10.96	.11	6.01	5.98	.02	12.64	12.89	-.25	-.078	-.531	.886	10.16
80.	11.09	10.91	.18	6.12	6.17	-.06	12.22	12.55	-.33	-.003	-.494	.871	9.62
81.	11.20	10.93	.27	6.87	6.48	.39	12.33	12.52	-.19	.034	-.488	.856	9.00
82.	10.99	10.97	.02	6.51	6.46	.05	12.35	12.59	-.24	.026	-.491	.858	8.90
83.	11.11	10.97	.14	6.41	6.36	.05	12.46	12.80	-.34	-.022	-.516	.868	8.80
84.	11.24	10.91	.33	6.56	6.55	.01	12.08	13.14	-.05	-.075	-.561	.868	8.46
85.	10.69	10.81	-.12	7.13	7.01	.12	13.05	13.33	-.28	-.078	-.589	.852	7.69
86.	10.85	10.69	.16	7.68	7.51	.17	13.29	13.54	-.25	-.079	-.617	.833	7.00
87.	10.95	10.57	.38	8.04	7.85	.19	13.71	13.63	.08	-.075	-.634	.819	6.56
88.	10.46	10.49	-.03	8.18	8.22	-.03	12.89	13.46	-.57	-.020	-.626	.792	6.13
89.	10.54	10.54	.01	9.07	9.27	-.20	13.38	13.59	-.20	.033	-.633	.752	5.40
90.	10.11	10.83	-.72	11.32	11.22	.10	13.87	13.99	-.12	.195	-.651	.618	4.64

MONTH = 5 LATITUDE = 70
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RRD	DEPTH
22.	1.80	1.68	.12	1.57	1.56	.01	1.36	1.36	-.01	.648	-.342	.493	9.30
23.	2.05	1.80	.25	1.56	1.54	.02	2.20	1.91	.29	.357	-.472	.655	8.22
24.	2.15	1.89	.26	1.59	1.71	-.12	1.74	2.03	-.29	.365	-.500	.624	7.80
25.	2.38	2.00	.38	2.28	2.03	.25	2.23	2.22	.02	.393	-.560	.541	6.90
26.	2.55	2.12	.43	2.31	2.22	.09	2.33	2.43	-.09	.378	-.585	.530	6.77
27.	2.67	2.27	.40	2.47	2.29	.19	2.33	2.39	-.06	.449	-.531	.518	7.33
28.	2.50	2.45	.05	2.50	2.35	.15	2.03	2.22	-.19	.570	-.429	.498	8.43
29.	2.64	2.66	-.02	2.53	2.40	.14	2.01	2.17	-.16	.634	-.325	.524	9.64
30.	2.91	2.89	.02	2.58	2.41	.16	2.21	2.27	-.06	.647	-.239	.586	10.63
31.	3.16	3.12	.04	2.43	2.38	.05	2.26	2.38	-.11	.657	-.140	.655	11.80
32.	3.38	3.35	.02	2.50	2.57	-.07	2.41	2.65	-.25	.627	-.176	.656	11.42
33.	3.58	3.59	-.02	3.24	2.74	.50	3.19	2.88	.31	.617	-.182	.662	11.46
34.	3.75	3.85	-.10	2.34	2.53	-.19	2.40	2.72	-.33	.708	.072	.755	14.88
35.	4.10	4.11	-.02	2.46	2.43	.03	2.66	2.71	-.05	.775	.279	.823	18.64
36.	4.54	4.39	.15	2.67	2.61	.06	2.91	2.90	.01	.771	.268	.820	18.65
37.	4.85	4.68	.16	2.83	2.74	.08	2.92	3.06	-.14	.782	.300	.829	19.56
38.	5.18	4.98	.20	2.87	2.80	.07	3.25	3.33	-.08	.773	.315	.846	20.34
39.	5.67	5.28	.39	2.90	2.80	.10	3.62	3.57	.04	.775	.363	.870	21.97
40.	4.80	5.58	-.78	2.78	2.96	-.18	3.52	3.76	-.24	.791	.374	.871	22.58
41.	5.20	5.90	-.70	3.50	3.22	.29	4.22	3.98	.23	.772	.336	.858	21.70
42.	5.58	6.23	-.66	3.01	3.15	-.14	4.09	4.10	-.01	.814	.471	.895	26.07
43.	5.89	6.57	-.68	2.82	2.95	-.13	4.37	4.25	.12	.871	.651	.940	35.00
44.	6.01	6.90	-.89	2.66	2.97	-.31	4.51	4.54	-.03	.874	.674	.948	37.37
45.	6.26	7.24	-.98	2.73	3.10	-.37	4.62	4.82	-.20	.864	.654	.946	36.63
46.	6.66	7.58	-.92	2.68	3.21	-.53	4.99	5.07	-.09	.863	.657	.941	37.00
47.	7.00	7.93	-.94	2.74	3.30	-.56	5.34	5.33	.01	.867	.671	.941	38.57
48.	7.35	8.29	-.94	2.73	3.36	-.63	5.81	5.65	.16	.865	.676	.954	39.47
49.	7.83	8.65	-.82	2.74	3.30	-.56	6.43	6.13	.30	.842	.650	.957	39.26
50.	8.34	8.97	-.63	2.44	3.12	-.68	7.02	6.74	.28	.800	.603	.961	39.01
51.	8.72	9.27	-.54	2.31	2.96	-.66	7.45	7.23	.21	.771	.578	.965	39.65
52.	9.23	9.54	-.31	2.25	2.85	-.59	8.02	7.64	.38	.752	.566	.969	40.91
53.	9.64	9.79	-.16	2.09	2.68	-.59	8.67	8.08	.59	.719	.540	.973	42.87
54.	10.09	10.02	.07	1.97	2.52	-.55	9.27	8.50	.76	.683	.508	.976	43.34
55.	10.57	10.24	.33	1.91	2.44	-.52	9.89	8.74	1.15	.637	.525	.979	45.76
56.	11.15	10.45	.70	1.94	2.40	-.46	10.59	8.87	1.72	.724	.583	.982	49.56
57.	11.52	10.67	.85	1.90	2.36	-.46	11.07	9.11	1.95	.722	.587	.984	50.73
58.	11.00	10.89	.11	1.91	2.35	-.44	10.67	9.42	1.25	.693	.552	.984	49.35
59.	11.40	11.10	.30	1.92	2.35	-.43	11.00	9.64	1.37	.688	.549	.984	48.44
60.	11.90	10.88	1.02	1.87	2.40	-.52	11.26	10.18	1.08	.393	.184	.976	37.10
61.	12.11	11.53	.58	2.04	2.54	-.50	11.43	10.24	1.19	.592	.420	.980	41.77
62.	11.92	11.76	.16	2.09	2.65	-.56	11.09	10.02	1.07	.721	.582	.983	46.89
63.	11.78	12.03	-.25	2.10	2.80	-.70	10.94	10.30	.65	.689	.533	.980	42.89
64.	11.94	12.34	-.40	2.26	3.27	-1.01	10.91	10.04	.87	.769	.620	.978	42.20
65.	15.68	12.74	2.93	2.96	3.94	-.98	14.42	9.81	4.61	.815	.657	.972	39.36
66.	15.87	13.21	2.66	3.02	4.13	-1.11	14.84	10.14	4.70	.815	.655	.972	38.46
67.	16.04	13.67	2.37	2.98	3.94	-.96	15.27	10.94	4.33	.769	.601	.973	37.46
68.	16.19	14.09	2.10	2.84	3.72	-.88	15.47	11.70	3.76	.720	.549	.975	37.24
69.	17.42	14.47	2.95	2.87	3.59	-.73	15.71	12.23	3.49	.700	.534	.978	38.12
70.	16.45	14.83	1.62	2.96	3.62	-.65	15.94	12.77	3.17	.652	.474	.977	36.26
71.	16.61	15.20	1.41	3.21	3.77	-.56	16.23	12.95	3.28	.679	.506	.977	36.18
72.	16.75	15.56	1.18	3.55	3.96	-.41	16.45	13.84	2.61	.539	.320	.971	30.22
73.	16.84	15.85	.99	3.59	3.94	-.34	16.77	14.67	2.09	.413	.178	.970	28.20
74.	16.91	16.06	.85	3.42	3.86	-.45	17.23	15.52	1.71	.258	.019	.971	26.96
75.	16.87	16.16	.71	3.75	4.07	-.31	17.76	16.38	1.38	.073	-.176	.969	24.61
76.	16.72	16.15	.57	4.25	4.46	-.21	18.35	17.17	1.18	-.098	-.352	.966	2 .95
77.	16.49	16.02	.46	4.60	4.74	-.14	18.75	17.75	1.00	-.236	-.480	.966	20.48
78.	16.23	15.79	.43	4.66	4.84	-.19	18.74	17.93	.80	-.318	-.550	.967	19.84
79.	15.75	15.51	.24	4.80	4.97	-.18	18.28	17.83	.44	-.342	-.576	.965	18.65
80.	15.30	15.19	.11	5.12	5.26	-.14	18.12	17.74	.38	-.353	-.598	.961	16.97
81.	14.89	14.82	.07	5.57	5.69	-.12	18.05	17.76	.28	-.376	-.634	.955	15.13
82.	14.46	14.40	.06	6.13	6.11	.02	18.11	17.71	.40	-.392	-.664	.948	13.50
83.	14.18	13.92	.26	6.27	6.33	-.05	17.57	17.50	.07	-.412	-.689	.944	12.43
84.	13.80	13.39	.42	6.38	6.56	-.19	17.46	17.24	.22	-.425	-.711	.938	11.32
85.	12.86	12.82	.04	7.14	7.30	-.16	16.84	17.06	-.23	-.393	-.723	.919	9.30
86.	12.48	12.21	.27	8.50	8.18	.32	17.19	17.09	.11	-.380	-.751	.897	7.84
87.	11.65	11.52	.13	8.64	8.61	.03	17.01	16.98	.03	-.410	-.785	.887	7.08
88.	10.78	10.76	.02	8.79	8.70	.09	16.44	16.57	-.14	-.445	-.814	.883	6.63
89.	10.08	9.94	.13	8.75	9.25	-.50	16.07	16.18	-.11	-.422	-.830	.855	5.66
90.	8.95	9.25	-.30	10.88	10.84	.04	15.83	15.90	-.06	-.248	-.826	.751	4.17

MONTH = 5 LATITUDE = 90
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RRD	DEPTH
22.	1.81	1.68	.13	1.73	1.72	.01	1.03	1.04	-.00	.815	-.341	.267	11.57
23.	2.05	1.83	.22	1.68	1.67	.01	2.31	1.87	.43	.430	-.473	.592	8.40
24.	2.26	1.93	.32	1.71	1.86	-.15	1.72	2.08	-.36	.397	-.524	.573	7.96
25.	2.52	2.05	.47	2.55	2.25	.30	2.37	2.33	.05	.416	-.598	.480	7.15
26.	2.73	2.18	.55	2.57	2.47	.10	2.48	2.58	-.10	.368	-.627	.475	6.89
27.	2.85	2.33	.52	2.76	2.54	.22	2.48	2.53	-.05	.464	-.576	.456	7.50
28.	2.62	2.52	.10	2.79	2.60	.19	2.08	2.31	-.23	.594	-.477	.423	8.70
29.	2.79	2.75	.04	2.82	2.64	.18	2.04	2.23	-.19	.658	-.373	.454	10.15
30.	3.11	2.99	.12	2.84	2.63	.21	2.26	2.25	.00	.684	-.259	.527	11.60
31.	3.18	3.23	-.06	2.65	2.58	.07	1.99	2.21	-.21	.734	-.095	.607	13.75
32.	3.44	3.49	-.06	2.74	2.81	-.07	2.18	2.49	-.31	.708	-.137	.603	15.17
33.	3.68	3.76	-.08	3.62	3.01	.60	3.24	2.77	.46	.686	-.156	.612	16.96
34.	3.85	4.04	-.19	2.51	2.76	-.25	2.10	2.55	-.46	.782	.156	.738	17.79
35.	4.32	4.33	-.01	2.71	2.66	.05	2.53	2.56	-.02	.838	.340	.823	20.62
36.	4.87	4.64	.23	2.93	2.87	.07	2.87	2.84	.03	.814	.319	.810	21.19
37.	5.22	4.95	.27	3.12	3.01	.11	2.88	3.04	-.16	.816	.338	.820	21.80
38.	5.59	5.27	.32	3.15	3.06	.09	3.28	3.37	-.09	.800	.343	.838	22.08
39.	6.13	5.58	.54	3.16	3.03	.12	3.69	3.64	.05	.800	.394	.867	23.89
40.	5.08	5.91	-.83	3.02	3.20	-.18	3.53	3.83	-.30	.806	.403	.869	24.39
41.	5.41	6.25	-.84	3.83	3.48	.35	4.31	4.06	.24	.797	.369	.856	23.23
42.	5.83	6.61	-.77	3.24	3.42	-.18	4.12	4.20	-.08	.835	.499	.834	27.59
43.	6.16	6.97	-.81	3.01	3.26	-.25	4.35	4.43	-.08	.871	.633	.932	34.08
44.	6.28	7.33	-1.05	2.85	3.32	-.47	4.63	4.76	-.13	.866	.637	.937	34.78
45.	6.54	7.71	-1.17	2.95	3.46	-.51	4.74	4.98	-.24	.873	.656	.941	36.10
46.	7.09	8.10	-1.00	2.91	3.57	-.67	5.23	5.22	.01	.883	.685	.947	38.27
47.	7.47	8.50	-1.03	2.94	3.65	-.71	5.60	5.58	.02	.877	.680	.949	38.62
48.	7.97	8.90	-.93	2.89	3.72	-.82	6.12	5.98	.15	.866	.667	.950	38.54
49.	8.40	9.29	-.89	2.95	3.65	-.70	6.84	6.44	.40	.857	.668	.956	38.99
50.	8.99	9.66	-.67	2.60	3.43	-.83	7.54	7.08	.45	.828	.644	.962	40.98
51.	9.43	9.99	-.56	2.46	3.23	-.78	8.02	7.65	.36	.800	.621	.967	41.86
52.	10.01	10.29	-.29	2.38	3.06	-.68	8.65	8.13	.53	.783	.615	.972	43.78
53.	10.48	10.57	-.09	2.13	2.83	-.69	9.40	8.65	.75	.752	.592	.977	45.85
54.	10.97	10.82	.15	2.03	2.63	-.59	10.05	9.13	.93	.716	.561	.980	47.51
55.	11.54	11.04	.49	1.92	2.50	-.58	10.76	9.52	1.24	.682	.529	.981	48.47
56.	12.14	11.26	.88	1.93	2.41	-.48	11.56	9.75	1.81	.693	.553	.984	51.58
57.	12.61	11.01	1.59	1.82	2.32	-.50	12.10	10.41	1.68	.356	.164	.978	40.20
58.	11.94	11.66	.28	1.61	2.28	-.47	11.58	10.30	1.28	.659	.525	.986	53.41
59.	12.39	11.85	.54	1.84	2.28	-.44	11.94	10.49	1.45	.660	.528	.987	53.77
60.	12.94	12.04	.90	1.78	2.32	-.54	12.21	10.74	1.47	.626	.486	.986	51.39
61.	13.14	12.24	.90	1.96	2.45	-.48	12.39	10.88	1.51	.624	.477	.986	48.48
62.	12.81	12.45	.36	1.95	2.58	-.63	11.92	10.97	.95	.644	.496	.984	47.14
63.	12.49	12.69	-.20	2.08	2.78	-.70	11.63	11.01	.62	.673	.534	.982	45.22
64.	12.56	12.97	-.41	2.22	3.31	-1.09	11.38	11.00	.38	.677	.497	.975	38.32
65.	16.78	13.35	3.43	2.99	4.08	-1.09	15.27	10.49	4.78	.764	.605	.970	37.10
66.	16.99	13.82	3.17	3.05	4.28	-1.23	15.69	10.81	4.89	.788	.603	.969	35.88
67.	17.19	13.68	3.51	2.95	4.04	-1.08	16.16	11.79	4.37	.584	.335	.961	28.47
68.	17.38	14.76	2.62	2.75	3.78	-1.02	16.39	12.16	4.23	.764	.604	.979	39.86
69.	17.42	15.16	2.26	2.95	3.70	-.74	16.68	12.91	3.77	.686	.520	.978	37.12
70.	17.70	15.53	2.17	2.76	3.57	-.81	16.95	13.51	3.44	.643	.474	.979	36.70
71.	17.90	15.69	2.00	2.93	3.64	-.71	17.29	13.82	3.47	.647	.480	.980	36.52
72.	18.05	15.65	2.40	3.24	3.77	-.53	17.56	14.33	3.23	.457	.236	.972	29.37
73.	18.16	16.70	1.46	3.19	3.59	-.41	17.95	14.74	3.22	.623	.462	.982	36.86
74.	18.23	17.00	1.23	2.82	3.39	-.57	18.49	15.90	2.59	.414	.229	.981	33.69
75.	18.20	17.16	1.04	3.29	3.63	-.34	18.09	17.01	2.08	.146	-.066	.977	28.81
76.	18.02	17.17	.86	3.93	4.06	-.23	19.72	18.02	1.70	-.097	-.317	.975	25.37
77.	17.78	17.05	.74	4.11	4.27	-.15	20.17	18.56	1.61	-.246	-.456	.975	24.50
78.	17.58	16.86	.72	4.01	4.31	-.30	20.24	18.52	1.72	-.278	-.486	.975	23.97
79.	17.03	16.62	.41	4.32	4.49	-.17	19.80	18.67	1.13	-.350	-.552	.974	23.16
80.	16.46	16.30	.16	4.74	4.81	-.08	19.70	18.94	.76	-.444	-.636	.974	22.01
81.	15.94	15.90	.04	5.07	5.29	-.23	19.58	19.00	.59	-.476	-.677	.970	19.19
82.	15.44	15.39	.05	5.00	5.88	-.12	19.66	19.12	.54	-.520	-.726	.965	16.78
83.	14.18	14.79	-.61	6.23	6.24	-.01	18.97	18.94	.03	-.548	-.757	.961	14.93
84.	14.56	14.12	.44	6.32	6.55	-.22	18.70	18.44	.25	-.529	-.760	.954	12.94
85.	13.50	13.43	.07	7.14	7.37	-.22	17.92	18.14	-.22	-.478	-.760	.934	10.20
86.	12.97	12.68	.30	8.76	8.38	.38	18.31	18.12	.19	-.458	-.783	.911	8.35
87.	11.87	11.83	.04	8.84	8.84	-.01	17.98	17.96	.02	-.499	-.821	.904	7.50
88.	10.88	10.86	.02	8.99	8.84	.15	17.46	17.48	-.03	-.571	-.860	.910	7.23
89.	9.92	9.77	.15	8.64	9.22	-.58	16.87	16.96	-.09	-.594	-.886	.909	6.32
90.	8.53	8.71	-.18	10.73	10.71	.03	16.43	16.47	-.04	-.434	-.879	.811	4.33

MONTH = 6 LATITUDE = 10
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	2.38	1.73	.64	1.15	1.13	.02	2.38	2.42	-.04	-.409	-.757	.905	10.45
23.	2.01	1.69	.32	1.30	1.24	.06	2.07	2.18	-.12	-.092	-.636	.825	9.56
24.	1.64	1.69	-.04	1.33	1.31	.02	2.01	2.06	-.05	.072	-.579	.772	8.17
25.	1.60	1.71	-.11	1.39	1.38	.01	2.01	2.02	-.02	.157	-.550	.738	8.08
26.	1.61	1.76	-.15	1.44	1.43	.01	2.01	1.96	.06	.260	-.498	.708	8.26
27.	1.62	1.83	-.21	1.41	1.46	-.05	1.84	1.81	.03	.409	-.391	.680	9.05
28.	1.68	1.93	-.26	1.44	1.49	-.04	1.72	1.72	.01	.523	-.276	.674	10.19
29.	1.80	2.06	-.26	1.42	1.51	-.09	1.86	1.69	.17	.591	-.175	.691	11.41
30.	1.87	2.20	-.34	1.45	1.59	-.14	1.72	1.61	.11	.683	-.054	.692	12.98
31.	1.97	2.37	-.41	1.63	1.76	-.12	1.67	1.67	-.00	.710	-.043	.674	13.31
32.	2.31	2.55	-.24	1.76	1.92	-.16	2.32	1.95	.37	.653	-.131	.665	12.31
33.	2.48	2.73	-.25	1.89	2.02	-.13	2.38	2.12	.26	.638	-.129	.681	12.51
34.	2.56	2.91	-.35	1.84	2.06	-.22	2.40	2.33	.07	.609	-.122	.713	12.84
35.	3.34	3.07	.27	1.98	2.05	-.07	3.16	2.73	.43	.490	-.201	.756	12.51
36.	3.26	3.19	.07	1.86	1.93	-.13	3.22	2.98	.23	.405	-.214	.807	13.28
37.	3.38	3.29	.09	1.70	1.80	-.10	3.16	3.04	.12	.406	-.153	.841	14.81
38.	3.50	3.39	.11	1.71	1.76	-.05	3.22	3.13	.09	.402	-.126	.857	15.72
39.	3.56	3.48	.09	1.69	1.76	-.07	3.35	3.25	.10	.377	-.137	.866	16.09
40.	3.63	3.56	.06	1.76	1.77	-.00	3.43	3.36	.07	.359	-.144	.872	16.46
41.	3.70	3.64	.06	1.71	1.74	-.03	3.49	3.49	.01	.328	-.157	.881	16.89
42.	3.78	3.71	.07	1.69	1.72	-.03	3.72	3.64	.09	.274	-.194	.891	17.27
43.	3.78	3.77	.01	1.71	1.71	.00	3.77	3.74	.03	.244	-.211	.897	17.65
44.	3.90	3.82	.08	1.66	1.71	-.05	3.81	3.81	.01	.233	-.216	.899	17.93
45.	3.91	3.87	.04	1.78	1.79	-.01	3.91	3.85	.06	.242	-.221	.893	17.56
46.	3.93	3.94	-.00	1.92	1.92	.00	3.83	3.87	-.03	.277	-.213	.880	16.84
47.	3.99	4.01	-.01	2.03	2.03	.00	3.93	3.88	.05	.314	-.198	.868	16.45
48.	3.71	4.09	-.38	2.11	2.06	.05	3.90	3.90	-.01	.342	-.169	.860	16.78
49.	4.25	4.18	.06	1.93	1.99	-.06	4.01	3.96	.06	.348	-.134	.862	17.87
50.	4.27	4.27	.00	1.89	2.03	-.14	4.09	4.05	.04	.344	-.138	.862	17.90
51.	4.37	4.36	.01	2.32	2.16	.16	4.18	4.15	.03	.341	-.163	.872	17.07
52.	4.42	4.45	-.03	2.04	2.13	-.09	4.33	4.27	.06	.322	-.163	.882	17.54
53.	4.43	4.53	-.10	2.03	2.00	.03	4.40	4.35	.05	.311	-.136	.898	18.81
54.	4.54	4.61	-.07	1.84	1.89	-.05	4.44	4.41	.02	.307	-.109	.913	20.12
55.	4.55	4.68	-.12	1.79	1.87	-.08	4.57	4.54	.04	.273	-.130	.918	20.43
56.	4.83	4.74	.08	1.97	1.98	-.01	4.78	4.67	.11	.243	-.178	.911	19.11
57.	4.65	4.81	-.16	2.12	2.13	-.01	4.77	4.71	.07	.267	-.179	.900	18.05
58.	4.75	4.89	-.14	2.20	2.23	-.03	4.74	4.71	.03	.307	-.156	.892	17.50
59.	4.82	4.98	-.16	2.28	2.37	-.09	4.87	4.83	.04	.301	-.181	.883	16.62
60.	4.99	5.08	-.09	2.56	2.60	-.04	5.19	5.04	.15	.269	-.244	.868	15.22
61.	4.98	5.17	-.19	2.78	2.84	-.06	5.33	5.22	.11	.257	-.289	.851	13.84
62.	5.27	5.28	-.01	3.01	2.98	.03	5.51	5.31	.20	.272	-.292	.841	13.29
63.	5.25	5.40	-.15	2.88	3.01	-.12	5.39	5.27	.11	.321	-.241	.842	13.44
64.	5.48	5.56	-.08	2.98	3.03	-.05	5.30	5.20	.10	.386	-.171	.843	13.84
65.	5.72	5.74	-.02	3.00	3.11	-.11	5.31	5.21	.10	.433	-.121	.842	14.00
66.	5.91	5.95	-.04	3.20	3.32	-.12	5.39	5.37	.02	.445	-.126	.832	13.39
67.	6.27	6.18	.09	3.64	3.63	.01	5.82	5.67	.14	.427	-.175	.816	12.35
68.	6.49	6.42	.07	3.79	3.84	-.05	6.06	5.98	.08	.409	-.203	.811	11.80
69.	6.73	6.66	.07	3.93	4.03	-.10	6.30	6.30	.01	.391	-.226	.808	11.31
70.	6.98	6.91	.07	4.30	4.31	-.01	6.77	6.74	.04	.351	-.279	.801	10.59
71.	7.18	7.14	.04	4.58	4.54	.04	7.29	7.24	.05	.295	-.335	.801	10.03
72.	7.45	7.34	.11	4.59	4.57	.02	7.75	7.71	.04	.228	-.376	.817	9.94
73.	7.61	7.48	.13	4.46	4.54	-.08	8.12	8.16	-.04	.147	-.421	.835	9.90
74.	7.74	7.57	.17	4.65	4.66	-.01	8.63	8.55	.08	.085	-.471	.839	9.58
75.	7.81	7.65	.17	4.96	4.91	.05	8.71	8.66	.04	.100	-.479	.826	9.12
76.	7.89	7.78	.11	5.19	5.12	.07	8.42	8.42	.00	.196	-.424	.803	8.98
77.	8.13	8.02	.10	5.30	5.38	-.07	7.87	8.00	-.13	.339	-.332	.775	9.16
78.	8.39	8.41	-.01	5.90	5.59	.31	7.58	7.66	-.08	.468	-.225	.762	9.76
79.	8.90	8.88	.02	5.45	5.45	.01	7.37	7.57	-.21	.529	-.099	.782	11.02
80.	8.17	9.37	-1.20	5.08	5.21	-.13	7.86	7.94	-.07	.532	-.027	.832	12.20
81.	9.80	9.83	-.03	5.11	5.27	-.16	8.86	8.69	.18	.472	-.072	.845	12.08
82.	10.11	10.21	-.10	5.48	5.56	-.08	9.71	9.88	-.17	.331	-.221	.847	11.10
83.	22.14	19.47	11.66	5.40	5.80	-.40	10.15	10.92	-.76	.198	-.341	.854	10.51
84.	10.80	10.70	.10	5.83	5.96	-.13	10.64	10.90	-.27	.244	-.308	.848	10.56
85.	11.10	11.03	.07	6.34	6.50	-.16	10.52	10.62	-.10	.356	-.248	.820	10.37
86.	11.50	11.51	-.01	7.57	7.43	.14	10.67	10.75	-.08	.423	-.239	.779	9.66
87.	12.11	12.13	-.02	8.34	8.10	.23	10.99	11.01	-.02	.466	-.222	.759	9.51
88.	12.77	12.84	-.06	8.76	8.37	-.11	11.27	11.36	-.10	.492	-.181	.767	9.85
89.	13.54	13.62	-.08	8.68	9.00	-.33	11.86	11.85	.01	.514	-.169	.759	9.81
90.	14.56	14.56	.00	10.44	10.44	-.00	12.38	12.38	.00	.552	-.194	.711	9.25

MONTH = 6 LATITUDE = 30

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RDD	DEPTH
22.	1.46	1.72	-.26	1.78	1.80	-.03	1.75	1.73	.03	.519	-.526	.454	7.09
23.	1.51	1.84	-.33	1.17	1.35	-.18	1.72	1.68	.04	.480	-.277	.718	9.97
24.	1.56	1.93	-.37	1.12	1.14	-.03	1.78	1.77	.00	.428	-.179	.813	12.14
25.	1.99	1.99	-.01	.98	1.11	-.13	2.16	1.99	.16	.274	-.278	.845	13.32
26.	1.94	2.03	-.09	1.19	1.19	-.00	2.23	2.12	.11	.222	-.348	.837	11.61
27.	1.94	2.08	-.14	1.24	1.29	-.06	2.19	2.10	.10	.301	-.317	.809	11.28
28.	1.96	2.15	-.19	1.32	1.33	-.01	2.12	2.00	.12	.419	-.219	.799	12.04
29.	1.98	2.25	-.27	1.21	1.32	-.12	1.97	1.87	.09	.555	-.041	.809	13.86
30.	1.98	2.37	-.39	1.29	1.39	-.10	1.91	1.80	.10	.663	.090	.813	15.46
31.	2.05	2.50	-.45	1.39	1.54	-.15	2.03	2.03	.00	.565	-.036	.789	13.86
32.	2.20	2.62	-.42	1.48	1.65	-.17	4.53	2.35	2.18	.471	-.177	.785	12.55
33.	2.54	2.74	-.20	1.48	1.65	-.17	2.38	2.33	.05	.530	-.085	.800	13.81
34.	2.74	2.87	-.13	1.50	1.62	-.12	2.61	2.33	.28	.582	.031	.825	15.48
35.	2.91	3.00	-.09	1.48	1.63	-.15	2.72	2.51	.22	.548	.006	.838	16.84
36.	2.95	3.12	-.16	1.56	1.67	-.11	2.94	2.67	.27	.518	-.021	.864	15.82
37.	4.04	3.24	.80	1.64	1.75	-.11	2.97	2.80	.17	.503	-.043	.882	15.74
38.	3.44	3.36	.08	1.78	1.78	.00	3.06	2.93	.12	.488	-.049	.848	15.98
39.	3.53	3.47	.06	1.64	1.72	-.08	3.18	3.07	.11	.465	-.036	.868	17.03
40.	3.60	3.57	.03	1.62	1.71	-.09	3.27	3.20	.08	.447	-.035	.878	17.79
41.	3.70	3.67	.03	1.78	1.81	-.03	3.40	3.33	.07	.429	-.069	.872	17.21
42.	3.75	3.78	-.02	1.89	1.90	-.01	3.53	3.45	.07	.414	-.099	.865	16.83
43.	3.87	3.88	-.01	1.92	1.88	.04	3.62	3.51	.12	.431	-.061	.875	17.77
44.	3.92	3.99	-.07	1.68	1.77	-.09	3.49	3.48	.01	.480	.051	.896	20.30
45.	4.04	4.10	-.06	1.70	1.77	-.07	3.54	3.50	.04	.528	.111	.903	21.66
46.	4.09	4.22	-.14	1.91	1.98	-.07	3.67	3.63	.05	.514	.053	.884	19.81
47.	4.26	4.36	-.10	2.27	2.31	-.05	3.87	3.78	.10	.500	-.036	.848	17.38
48.	3.30	4.51	-1.22	2.59	2.51	.08	4.08	3.84	.24	.525	-.035	.832	16.01
49.	4.72	4.68	.04	2.18	2.33	-.15	4.05	3.83	.22	.580	.101	.869	19.78
50.	4.81	4.84	-.03	1.88	2.05	-.17	4.12	3.91	.21	.622	.246	.912	24.39
51.	4.96	5.00	-.03	1.81	1.93	-.11	4.37	4.15	.22	.597	.254	.928	25.82
52.	5.08	5.13	-.05	1.82	1.94	-.12	4.68	4.41	.27	.535	.183	.928	24.84
53.	5.09	5.26	-.17	1.95	2.05	-.10	4.85	4.61	.23	.491	.116	.922	23.20
54.	5.18	5.39	-.21	2.11	2.22	-.11	5.02	4.78	.24	.466	.062	.912	21.57
55.	5.52	5.52	-.01	2.30	2.38	-.08	5.19	4.96	.23	.439	.009	.902	20.18
56.	6.02	5.66	.36	2.43	2.52	-.10	5.37	5.14	.23	.421	-.029	.895	19.13
57.	5.33	5.80	-.47	2.56	2.68	-.12	5.47	5.26	.21	.424	-.041	.887	18.28
58.	5.46	5.96	-.50	2.76	2.81	-.05	5.62	5.32	.30	.452	-.023	.882	17.93
59.	5.58	6.14	-.56	2.69	2.88	-.20	5.65	5.36	.29	.488	.023	.884	18.26
60.	5.75	6.34	-.58	2.77	2.98	-.21	5.88	5.46	.42	.510	.046	.883	18.23
61.	6.00	6.55	-.55	2.92	3.15	-.23	6.19	5.65	.53	.505	.027	.876	17.46
62.	6.23	6.78	-.55	3.03	3.33	-.30	6.65	5.83	.82	.512	.024	.871	16.92
63.	6.67	7.03	-.36	3.17	3.47	-.29	6.61	5.90	.72	.548	.066	.871	17.04
64.	7.09	7.30	-.21	3.16	3.48	-.32	6.92	6.24	.68	.520	.052	.880	16.90
65.	8.15	7.53	.63	3.98	3.38	-.40	8.27	6.96	1.31	.396	-.069	.894	16.37
66.	8.28	7.69	.59	3.02	3.39	-.36	8.51	7.60	.91	.246	-.197	.902	15.61
67.	8.35	7.79	.56	3.29	3.54	-.24	8.90	8.05	.85	.152	-.293	.901	14.60
68.	8.32	7.86	.47	3.49	3.67	-.18	8.99	8.36	.63	.091	-.353	.900	13.85
69.	8.37	7.90	.46	3.52	3.83	-.31	9.00	8.54	.46	.068	-.386	.894	13.08
70.	8.41	7.95	.46	4.10	4.20	-.11	9.00	8.71	.28	.073	-.416	.877	11.82
71.	8.53	8.00	.53	4.57	4.63	-.06	9.13	8.90	.23	.085	-.444	.855	10.67
72.	8.69	8.08	.61	4.91	4.90	.01	9.11	9.00	.12	.106	-.450	.840	10.04
73.	8.89	8.18	.72	5.06	5.05	.01	8.93	9.03	-.10	.130	-.441	.832	9.76
74.	9.14	8.25	.86	5.25	5.16	.09	9.01	9.21	-.20	.122	-.451	.831	9.51
75.	9.35	8.37	.98	5.45	5.36	.09	9.29	9.63	-.34	.087	-.498	.832	9.07
76.	9.50	8.40	1.10	5.96	5.65	.31	9.83	10.09	-.26	.037	-.554	.829	8.53
77.	9.27	8.44	.83	6.25	6.03	.22	9.83	10.07	-.24	.062	-.548	.801	7.96
78.	8.39	8.60	-.21	6.95	6.30	.66	8.93	9.41	-.48	.231	-.458	.759	7.93
79.	8.82	8.94	-.11	6.35	6.13	.21	8.25	8.74	-.49	.374	-.319	.758	8.78
80.	9.04	9.38	-.34	5.97	5.92	.05	8.20	8.62	-.42	.430	-.210	.787	9.80
81.	9.86	9.85	.01	6.18	5.93	.25	8.81	8.99	-.19	.439	-.179	.806	10.17
82.	10.17	10.30	-.13	5.98	5.88	.10	9.35	9.53	-.18	.411	-.172	.827	10.52
83.	10.61	10.71	-.10	5.84	5.83	.01	9.93	10.21	-.27	.357	-.187	.846	10.71
84.	11.05	11.05	.00	6.02	6.10	-.09	11.03	11.17	-.15	.256	-.293	.860	10.14
85.	11.26	11.29	-.03	6.82	6.79	.03	12.20	12.23	-.03	.157	-.410	.836	9.07
86.	11.60	11.46	.14	7.76	7.66	.10	13.04	13.12	-.09	.102	-.495	.814	8.06
87.	11.99	11.64	.35	8.60	8.27	.34	13.72	13.33	.39	.136	-.501	.789	7.57
88.	11.78	11.95	-.18	8.48	8.47	.01	12.25	12.76	-.50	.257	-.424	.767	7.73
89.	12.28	12.46	-.18	8.69	8.80	-.11	12.26	12.43	-.17	.357	-.351	.758	7.98
90.	12.83	13.14	-.31	9.59	9.57	.02	12.59	12.62	-.03	.417	-.324	.725	7.93

MONTH = 6 LATITUDE = 50

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RRT	RTD	RRD	DEPTH
22.	.71	1.22	-.51	.78	.83	-.05	.73	.67	.05	.849	.301	.759	18.11
23.	1.35	1.32	.03	1.08	1.11	-.02	1.43	1.17	.26	.543	-.333	.611	9.26
24.	1.36	1.41	-.04	1.16	1.24	-.07	1.53	1.39	.14	.653	-.432	.609	8.36
25.	1.41	1.49	-.08	1.22	1.24	-.02	1.51	1.40	.11	.486	-.367	.634	9.07
26.	1.45	1.59	-.14	1.09	1.16	-.07	1.44	1.35	.09	.557	-.284	.699	10.90
27.	1.51	1.69	-.18	.99	1.08	-.09	1.36	1.31	.05	.629	-.014	.768	13.41
28.	1.57	1.79	-.22	1.00	1.08	-.09	1.48	1.34	.14	.665	.082	.799	14.93
29.	1.62	1.91	-.29	1.05	1.11	-.06	1.52	1.37	.15	.703	.164	.817	16.32
30.	1.71	2.03	-.31	1.01	1.16	-.15	1.53	1.42	.11	.732	.238	.830	17.56
31.	1.77	2.16	-.39	1.15	1.26	-.10	1.77	1.47	.30	.756	.284	.825	17.98
32.	1.80	2.30	-.50	1.20	1.33	-.13	1.66	1.47	.19	.799	.342	.838	20.14
33.	1.93	2.46	-.53	1.17	1.41	-.24	1.82	1.53	.29	.820	.392	.848	21.58
34.	2.37	2.63	-.26	1.40	1.56	-.16	2.07	1.64	.43	.811	.350	.832	20.78
35.	2.60	2.81	-.20	1.44	1.65	-.21	2.01	1.74	.27	.816	.364	.836	21.44
36.	2.63	2.99	-.36	1.50	1.70	-.20	2.30	1.89	.41	.813	.389	.853	22.42
37.	3.00	3.18	-.18	1.53	1.73	-.21	2.37	2.05	.33	.789	.388	.873	23.28
38.	3.29	3.36	-.07	1.60	1.78	-.19	2.55	2.24	.31	.738	.306	.860	21.81
39.	3.57	3.55	.02	1.68	1.85	-.17	2.84	2.51	.33	.674	.206	.862	20.32
40.	3.69	3.72	-.02	1.76	1.93	-.17	3.09	2.81	.28	.617	.115	.853	18.97
41.	3.91	3.88	.03	1.90	2.04	-.14	3.39	3.08	.31	.586	.067	.847	18.32
42.	3.96	4.04	-.08	2.02	2.16	-.14	3.54	3.28	.26	.617	.128	.860	19.64
43.	4.11	4.21	-.10	2.15	2.17	-.02	3.66	3.34	.32	.692	.298	.895	23.80
44.	4.22	4.38	-.16	1.86	2.04	-.19	3.43	3.31	.12	.725	.380	.913	26.64
45.	4.46	4.56	-.10	1.88	2.01	-.14	3.57	3.39	.18	.681	.281	.884	23.73
46.	4.52	4.74	-.22	2.04	2.21	-.17	3.80	3.62	.18	.636	.140	.853	19.93
47.	4.75	4.94	-.19	2.47	2.60	-.13	4.10	3.85	.26	.657	.139	.878	19.57
48.	3.56	5.15	-1.60	2.87	2.84	.03	4.36	3.92	.44	.730	.340	.891	24.64
49.	5.21	5.38	-.17	2.35	2.60	-.25	4.28	3.91	.37	.798	.561	.945	34.24
50.	5.37	5.61	-.24	1.95	2.20	-.24	4.50	4.09	.40	.788	.586	.961	38.49
51.	5.53	5.81	-.28	1.74	1.99	-.25	4.77	4.42	.35	.753	.537	.960	36.78
52.	5.73	6.00	-.27	1.80	2.00	-.20	5.20	4.68	.52	.710	.460	.952	33.19
53.	5.89	6.19	-.30	1.97	2.13	-.16	5.47	4.91	.56	.668	.388	.945	30.35
54.	6.05	6.38	-.33	2.06	2.26	-.20	5.72	5.15	.58	.628	.318	.937	27.97
55.	6.16	6.56	-.41	2.22	2.41	-.19	5.94	5.39	.55	.580	.237	.929	25.39
56.	7.25	6.75	.50	2.37	2.58	-.21	6.24	5.66	.58	.539	.156	.918	22.96
57.	6.49	6.94	-.45	2.56	2.78	-.22	6.49	5.95	.54	.499	.092	.909	21.19
58.	6.81	7.14	-.32	2.80	2.99	-.19	6.85	6.21	.64	.491	.076	.906	20.50
59.	7.12	7.34	-.21	2.90	3.11	-.22	7.08	6.41	.68	.493	.083	.908	20.48
60.	7.22	7.54	-.32	2.91	3.17	-.27	7.16	6.58	.70	.495	.083	.909	20.15
61.	7.59	7.75	-.16	3.03	3.26	-.24	7.47	6.77	.71	.484	.072	.908	19.72
62.	7.57	7.98	-.40	3.14	3.35	-.21	7.51	7.00	.51	.451	.052	.915	19.78
63.	8.24	8.19	.05	3.14	3.31	-.17	8.08	7.32	.76	.394	.017	.926	20.19
64.	8.33	8.38	-.05	2.91	3.17	-.26	8.17	7.71	.46	.296	-.069	.933	20.04
65.	8.85	8.54	.31	2.93	3.08	-.15	8.79	8.18	.61	.183	-.171	.938	19.52
66.	8.98	8.65	.34	2.88	3.04	-.16	9.07	8.63	.44	.052	-.251	.941	19.07
67.	9.02	8.71	.31	2.94	3.05	-.11	9.36	8.96	.43	.029	-.304	.944	18.78
68.	8.99	8.73	.26	2.98	3.04	-.05	9.46	9.16	.29	.001	-.333	.943	18.03
69.	9.02	8.74	.28	2.89	3.09	-.20	9.50	9.27	.23	.010	-.353	.932	16.17
70.	9.04	8.74	.30	3.35	3.39	-.04	9.45	9.35	.11	.036	-.369	.915	14.20
71.	9.12	8.76	.36	3.78	3.79	-.01	9.52	9.42	.10	.077	-.366	.900	12.80
72.	9.22	8.80	.43	4.17	4.13	.04	9.44	9.42	.02	.120	-.351	.887	12.09
73.	9.38	8.87	.51	4.41	4.37	.04	9.28	9.40	-.12	.123	-.362	.880	11.47
74.	9.58	8.96	.62	4.63	4.56	.07	9.31	9.54	-.23	.084	-.427	.875	10.68
75.	9.77	9.04	.74	4.80	4.84	.04	9.66	9.97	-.31	.014	-.519	.867	9.65
76.	9.69	9.06	.63	5.48	5.25	.23	10.38	10.63	-.24	.005	-.528	.846	9.73
77.	9.72	9.05	.67	5.92	5.68	.24	11.48	10.66	.18	.126	-.465	.820	8.35
78.	9.01	9.12	-.12	6.36	5.90	.47	9.77	10.22	-.45	.232	-.373	.816	8.64
79.	9.31	9.32	-.02	5.94	5.81	.13	9.34	9.78	-.44	.282	-.315	.822	8.90
80.	9.69	9.61	.08	5.85	5.76	.09	9.35	9.72	-.37	.293	-.297	.826	8.87
81.	10.03	9.94	.09	6.14	5.87	.28	9.70	9.95	-.26	.285	-.284	.838	8.98
82.	10.29	10.28	.00	5.99	5.86	.13	10.04	10.28	-.24	.250	-.296	.851	8.96
83.	10.67	10.61	.06	5.90	5.83	.07	10.39	10.75	-.36	.170	-.367	.854	8.46
84.	11.06	10.87	.19	6.07	6.08	-.01	11.29	11.52	-.22	.086	-.457	.847	7.68
85.	11.15	11.04	.11	6.77	6.59	.18	12.20	12.37	-.16	.007	-.533	.842	7.08
86.	11.52	11.11	.41	7.29	7.07	.21	12.82	13.13	-.31	-.029	-.565	.841	6.78
87.	11.86	11.09	.77	7.61	7.28	.34	13.52	13.44	.08	-.005	-.558	.832	6.57
88.	11.61	11.06	.55	7.46	7.39	.07	12.43	13.33	-.90	.026	-.575	.803	5.95
89.	10.91	11.08	-.18	7.96	8.06	-.11	13.42	13.54	-.12	.131	-.587	.726	5.11
90.	10.36	11.25	-.90	8.68	8.56	.12	13.61	13.77	-.16				

MONTH = 6 LATITUDE = 70
AFTER SMOOTHING TEMP AND DENSITY VALUES

A T	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	1.35	1.76	-.41	.83	.85	-.02	1.58	1.54	.04	.486	.003	.876	15.87
23.	1.50	1.83	-.33	1.02	1.05	-.03	1.70	1.60	.10	.499	-.068	.890	13.45
24.	1.54	1.92	-.38	1.12	1.16	-.04	1.80	1.64	.16	.526	-.094	.797	13.00
25.	1.68	2.01	-.33	1.06	1.20	-.14	1.85	1.74	.11	.507	-.103	.805	13.04
26.	2.00	2.09	-.10	1.16	1.28	-.12	2.22	1.95	.27	.414	-.211	.802	12.16
27.	2.21	2.17	.04	1.31	1.41	-.09	2.37	2.17	.20	.326	-.394	.789	11.11
28.	2.27	2.23	.04	1.42	1.52	-.09	2.54	2.30	.24	.298	-.371	.776	10.62
29.	2.25	2.31	-.06	1.52	1.63	-.11	2.46	2.29	.16	.361	-.346	.758	10.58
30.	2.12	2.42	-.30	1.68	1.77	-.09	2.35	2.13	.22	.516	-.244	.704	11.16
31.	2.01	2.58	-.57	1.77	1.91	-.14	2.01	1.86	.15	.694	-.066	.673	13.21
32.	2.17	2.79	-.62	1.83	2.03	-.20	1.81	1.66	.15	.806	.133	.693	16.54
33.	2.30	3.02	-.72	1.87	2.09	-.23	1.97	1.72	.25	.833	.248	.742	18.75
34.	2.65	3.26	-.61	1.81	2.12	-.31	2.45	2.04	.41	.792	.224	.772	18.16
35.	3.24	3.48	-.23	1.91	2.16	-.25	3.08	2.54	.53	.686	.090	.786	16.14
36.	3.78	3.66	.11	1.89	2.14	-.24	3.71	3.01	.70	.560	-.019	.812	15.35
37.	3.94	3.81	.12	1.84	2.08	-.24	3.77	3.30	.47	.503	-.050	.838	15.81
38.	4.09	3.95	.14	1.89	2.10	-.21	3.93	3.51	.42	.463	-.079	.847	15.98
39.	4.32	4.07	.24	2.05	2.17	-.12	4.09	3.70	.40	.433	-.110	.849	15.94
41.	4.37	4.20	.17	2.04	2.16	-.12	4.06	3.70	.36	.476	-.045	.858	17.06
41.	[illegible]	4.35	-.13	1.98	2.11	-.13	3.73	3.45	.27	.625	.175	.878	20.56
42.	[illegible]	4.55	-.48	1.98	2.11	-.14	3.24	3.16	.08	.789	.466	.911	27.54
43.	4.18	4.77	-.59	1.98	2.17	-.19	3.15	3.08	.07	.868	.640	.937	35.26
44.	4.34	5.01	-.67	1.98	2.21	-.23	3.28	3.21	.07	.887	.695	.948	38.52
45.	4.60	5.25	-.65	1.94	2.17	-.23	3.64	3.48	.16	.883	.708	.956	41.95
46.	4.89	5.48	-.59	1.78	2.04	-.26	4.11	3.85	.26	.864	.698	.964	43.54
47.	5.18	5.68	-.50	1.62	1.90	-.28	4.61	4.23	.37	.831	.666	.968	43.97
48.	5.45	5.87	-.42	1.62	1.83	-.21	4.03	4.55	.48	.793	.619	.969	43.17
49.	5.68	6.03	-.35	1.55	1.77	-.23	5.36	4.84	.52	.754	.574	.971	42.76
50.	5.60	6.19	-.59	1.46	1.69	-.23	6.25	5.13	.13	.709	.526	.972	42.91
51.	5.97	6.33	-.36	1.36	1.61	-.25	6.66	5.35	.31	.686	.510	.976	44.57
52.	6.41	6.46	-.05	1.33	1.59	-.26	6.14	5.49	.66	.690	.523	.978	46.16
53.	6.74	6.59	.15	1.49	1.61	-.12	6.62	5.71	.92	.694	.450	.976	43.34
54.	7.16	6.70	.46	1.36	1.55	-.19	7.08	6.13	.96	.668	.258	.975	39.87
55.	7.59	6.78	.82	1.34	1.49	-.15	7.41	6.32	1.09	.606	.201	.977	40.51
56.	5.36	6.86	-1.49	1.31	1.49	-.18	7.61	6.32	1.29	.459	.262	.978	41.66
57.	7.81	6.93	.88	1.36	1.50	-.14	7.64	6.62	1.02	.312	.100	.976	38.67
58.	7.80	6.97	.82	1.41	1.56	-.15	7.61	6.91	.70	.149	-.074	.975	36.71
59.	7.83	7.01	.82	1.58	1.67	-.09	7.49	6.92	.57	.173	-.066	.971	33.21
60.	7.49	7.06	.43	1.70	1.74	-.04	7.13	6.67	.46	.343	.102	.970	33.43
61.	6.87	7.17	-.31	1.62	1.81	-.19	6.52	6.28	.25	.591	.387	.973	37.38
62.	6.22	7.34	-1.12	1.87	2.03	-.16	6.86	6.06	-.20	.716	.533	.972	38.88
63.	6.05	7.56	-1.50	1.95	2.27	-.32	6.72	6.07	-.35	.739	.546	.968	36.47
64.	6.80	7.81	-1.01	1.93	2.57	-.63	6.26	5.98	.28	.793	.606	.965	36.25
65.	9.54	8.11	1.42	2.40	2.90	-.50	8.72	5.91	2.80	.834	.655	.963	34.41
66.	9.69	8.45	1.24	2.35	2.94	-.59	8.95	6.27	2.68	.822	.639	.964	35.56
67.	9.82	8.78	1.04	2.28	2.78	-.50	9.19	6.81	2.38	.789	.609	.968	35.67
68.	9.93	9.08	.85	2.26	2.68	-.43	9.36	7.38	1.98	.724	.529	.968	33.45
69.	10.53	9.35	1.18	2.35	2.66	-.31	9.58	7.95	1.62	.629	.405	.966	30.29
70.	10.16	9.58	.58	2.35	2.65	-.30	9.75	8.43	1.31	.547	.307	.965	28.43
71.	10.36	9.80	.57	2.43	2.70	-.27	9.97	8.81	1.17	.496	.234	.963	26.72
72.	10.50	10.00	.50	2.60	2.81	-.20	10.08	9.15	.93	.439	.162	.961	24.82
73.	10.61	10.18	.43	2.71	2.88	-.18	10.27	9.52	.74	.361	.083	.959	23.26
74.	10.72	10.33	.39	2.78	2.99	-.21	10.54	9.96	.58	.268	-.023	.957	21.48
75.	10.81	10.44	.37	3.09	3.25	-.16	10.91	10.45	.46	.153	-.159	.951	19.16
76.	10.83	10.49	.34	3.53	3.63	-.10	11.35	10.95	.40	.045	-.288	.944	16.56
77.	10.86	10.49	.36	3.93	3.87	.05	11.65	11.33	.32	-.039	-.378	.940	15.02
78.	10.87	10.45	.42	3.79	3.88	-.10	11.69	11.42	.27	-.075	-.409	.941	14.58
79.	10.45	10.41	.04	3.84	3.95	-.12	11.29	11.32	-.03	-.059	-.397	.937	13.73
80.	10.39	10.37	.02	4.24	4.24	-.01	11.40	11.35	.05	-.037	-.408	.928	12.39
81.	10.38	10.33	.05	4.56	4.58	-.02	11.57	11.55	.02	-.061	-.451	.918	11.10
82.	10.33	10.25	.07	4.90	4.89	.01	11.85	11.74	.11	-.086	-.492	.910	10.09
83.	10.34	10.15	.18	5.16	5.17	-.01	11.78	11.85	-.07	-.102	-.523	.901	9.13
84.	10.32	10.03	.28	5.47	5.48	-.01	11.96	11.93	.03	-.105	-.548	.889	8.29
85.	10.15	9.91	.24	5.94	5.84	.09	11.77	11.92	-.15	-.085	-.560	.873	7.64
86.	10.25	9.79	.46	6.25	6.00	.25	11.75	11.95	-.21	-.094	-.579	.866	7.10
87.	10.20	9.61	.59	5.93	5.89	.04	11.84	12.09	-.26	-.149	-.622	.877	7.12
88.	9.34	9.27	.07	5.99	5.98	.01	11.94	12.52	-.58	-.315	-.711	.891	6.98
89.	8.69	8.71	-.02	6.63	7.01	-.38	13.18	13.29	-.11	-.424	-.805	.879	5.89
90.	7.42	8.04	-.62	9.38	9.27	.11	13.78	13.94	-.16	-.293	-.834	.772	3.85

MONTH = 6 LATITUDE = 90
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	1.51	1.93	-.42	.85	.87	-.02	1.78	1.74	.04	.434	-.018	.897	17.05
23.	1.55	1.99	-.44	1.00	1.05	-.05	1.78	1.70	.08	.526	.003	.852	15.63
24.	1.59	2.08	-.49	1.11	1.14	-.04	1.88	1.70	.18	.577	.035	.836	15.68
25.	1.76	2.17	-.42	1.30	1.18	-.10	1.95	1.82	.13	.544	.001	.839	15.54
26.	2.15	2.26	-.11	1.19	1.31	-.13	2.42	2.09	.33	.415	-.181	.820	13.42
27.	2.39	2.33	.07	1.45	1.51	-.10	2.62	2.35	.26	.307	-.337	.795	11.50
28.	2.46	2.39	.07	1.54	1.65	-.11	2.80	2.50	.30	.276	-.395	.774	10.82
29.	2.42	2.47	-.05	1.65	1.78	-.14	2.70	2.50	.20	.345	-.374	.742	10.61
30.	2.24	2.58	-.34	1.85	1.95	-.10	2.57	2.29	.28	.518	-.267	.685	11.23
31.	2.08	2.75	-.67	1.93	2.11	-.17	2.08	1.93	.15	.714	-.072	.647	13.86
32.	2.27	2.98	-.71	2.00	2.23	-.24	1.86	1.68	.18	.829	.141	.671	17.67
33.	2.41	3.24	-.83	2.05	2.31	-.26	2.02	1.75	.27	.854	.263	.726	20.15
34.	2.82	3.50	-.68	1.96	2.34	-.37	2.56	2.12	.44	.847	.228	.759	19.12
35.	3.49	3.73	-.23	2.08	2.38	-.30	3.38	2.72	.66	.686	.065	.771	16.45
36.	4.12	3.92	.20	2.09	2.36	-.27	4.07	3.26	.81	.557	-.055	.799	15.30
37.	4.25	4.07	.18	2.00	2.28	-.28	4.12	3.57	.54	.486	-.087	.832	15.88
38.	4.40	4.21	.19	2.04	2.28	-.24	4.28	3.81	.47	.438	-.115	.843	16.04
39.	4.64	4.33	.31	2.22	2.35	-.13	4.49	4.01	.48	.462	-.151	.844	15.87
40.	4.69	4.46	.23	2.19	2.32	-.13	4.42	3.99	.43	.452	-.074	.865	17.10
41.	4.45	4.61	-.17	2.06	2.23	-.18	4.96	3.65	.30	.628	.181	.879	21.20
42.	4.20	4.82	-.61	2.03	2.25	-.21	3.24	3.28	-.05	.806	.499	.915	29.18
43.	4.33	5.05	-.72	2.01	2.35	-.34	3.10	3.21	-.10	.876	.646	.935	36.00
44.	4.52	5.31	-.79	2.04	2.43	-.39	3.32	3.38	-.05	.874	.667	.939	37.46
45.	4.85	5.57	-.72	2.02	2.39	-.37	3.88	3.69	.19	.867	.669	.946	35.49
46.	5.19	5.80	-.61	1.82	2.18	-.36	4.35	4.15	.20	.840	.652	.959	40.78
47.	5.54	6.01	-.47	1.51	1.89	-.38	4.92	4.62	.30	.805	.638	.970	44.62
48.	5.98	6.18	-.20	1.38	1.72	-.34	5.42	4.98	.44	.767	.606	.975	44.75
49.	6.05	6.33	-.28	1.41	1.69	-.28	5.83	5.19	.64	.745	.582	.976	46.90
50.	5.92	6.48	-.56	1.39	1.67	-.28	5.66	5.37	.29	.737	.579	.978	48.23
51.	6.36	6.62	-.26	1.29	1.58	-.29	6.13	5.61	.52	.704	.554	.980	49.58
52.	6.89	6.75	.14	1.22	1.53	-.32	6.68	5.85	.82	.657	.496	.980	48.52
53.	7.27	6.86	.41	1.39	1.53	-.14	7.24	6.06	1.18	.605	.433	.980	46.76
54.	7.77	6.96	.81	1.19	1.40	-.21	7.78	6.43	1.35	.466	.287	.981	46.44
55.	8.28	7.02	1.26	1.08	1.24	-.15	8.15	6.73	1.42	.321	.151	.985	49.26
56.	5.14	7.07	-1.93	.95	1.15	-.20	8.36	6.79	1.57	.321	.165	.987	52.84
57.	8.49	7.11	1.38	.96	1.08	-.12	8.36	6.96	1.40	.211	.060	.988	54.13
58.	8.44	7.12	1.32	.90	1.08	-.18	8.31	7.20	1.10	-.001	-.151	.989	52.73
59.	8.42	7.12	1.30	1.13	1.24	-.12	8.14	7.25	.89	-.030	-.191	.985	45.23
60.	7.99	7.13	.86	1.42	1.41	.01	7.67	7.04	.62	.160	-.038	.980	40.25
61.	7.68	7.19	-.12	1.26	1.53	-.26	6.79	6.61	.18	.475	.286	.979	41.35
62.	6.32	7.32	-1.00	1.67	1.82	-.15	5.92	6.20	-.28	.694	.527	.978	42.62
63.	5.94	7.51	-1.57	1.78	2.13	-.35	5.60	6.06	-.45	.759	.589	.973	40.53
64.	6.76	7.76	-1.00	1.79	2.47	-.68	6.11	5.92	.20	.817	.653	.971	40.16
65.	9.76	8.05	1.71	2.20	2.86	-.66	8.69	6.02	2.68	.790	.594	.958	33.96
66.	9.92	8.27	1.64	2.14	2.90	-.76	8.91	6.35	2.57	.787	.588	.959	33.08
67.	10.08	8.69	1.38	2.02	2.69	-.67	9.13	6.70	2.43	.812	.652	.972	36.23
68.	10.23	9.00	1.23	1.96	2.59	-.64	9.32	7.19	2.13	.771	.604	.973	36.70
69.	10.53	9.29	1.24	2.14	2.55	-.41	9.60	7.58	2.02	.746	.579	.975	36.89
70.	10.51	9.57	.94	1.90	2.36	-.46	9.85	8.06	1.78	.711	.562	.979	36.82
71.	10.75	9.82	.93	1.76	2.18	-.41	10.12	8.44	1.66	.703	.559	.983	38.89
72.	10.89	10.06	.83	1.80	2.11	-.31	10.28	8.76	1.52	.674	.537	.986	40.16
73.	10.99	10.28	.71	1.81	2.07	-.26	10.57	9.13	1.45	.627	.480	.984	39.20
74.	11.07	10.48	.60	1.77	2.11	-.34	10.92	9.63	1.30	.528	.358	.982	35.38
75.	11.13	10.64	.49	2.20	2.39	-.20	11.29	10.08	1.21	.334	.130	.975	28.37
76.	11.13	10.74	.39	2.57	2.77	-.21	11.67	10.68	1.00	.181	-.107	.967	23.07
77.	11.21	10.77	.44	2.96	3.88	-.08	12.02	11.21	.80	-.020	-.279	.966	21.69
78.	11.43	10.72	.71	2.35	3.74	-.38	12.26	11.52	.75	-.174	-.400	.972	22.71
79.	10.80	10.63	.17	2.80	2.97	-.16	11.87	11.58	.29	-.136	-.436	.968	20.52
80.	10.61	10.52	.09	3.54	3.53	.00	12.00	11.68	.32	-.170	-.468	.955	16.76
81.	10.49	10.38	.11	3.90	4.03	-.14	12.13	11.91	.23	-.212	-.524	.944	13.87
82.	10.34	10.19	.15	4.49	4.51	-.02	12.39	12.09	.30	-.238	-.574	.932	11.75
83.	10.34	9.96	.37	4.89	4.92	-.04	12.21	12.12	.08	-.239	-.603	.919	9.94
84.	10.06	9.71	.34	5.26	5.27	-.01	12.17	12.02	.15	-.217	-.614	.904	8.57
85.	9.80	9.48	.32	5.63	5.57	.06	11.63	11.76	-.13	-.165	-.606	.884	7.47
86.	9.78	9.27	.51	5.87	5.58	.29	11.36	11.54	-.18	-.155	-.608	.878	7.19
87.	9.58	9.01	.56	5.95	5.34	-.08	11.22	11.62	-.40	-.265	-.664	.867	7.48
88.	8.72	8.55	.16	5.41	5.45	-.04	11.77	12.08	-.31	-.461	-.778	.916	7.56
89.	7.81	7.81	-.00	6.12	6.67	-.55	13.10	12.89	.21	-.582	-.870	.907	6.16
90.	6.13	6.78	-.65	9.29	9.15	.14	13.84	14.04	-.20	-.543	-.914	.837	5.78

MONTH = 7 LATITUDE = 10
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	1.06	1.11	-.05	.68	.68	-.00	.93	.92	.00	.557	-.067	.791	13.19
23.	.89	1.18	-.29	1.21	1.11	.10	1.28	1.22	.06	.436	-.489	.571	7.43
24.	1.18	1.25	-.15	1.23	1.25	-.02	1.51	1.44	.08	.338	-.574	.577	6.79
25.	1.57	1.31	.26	1.21	1.24	-.03	1.57	1.53	.04	.286	-.570	.695	7.08
26.	1.02	1.37	-.35	1.26	1.27	-.01	1.54	1.50	.05	.364	-.517	.609	7.52
27.	1.02	1.46	-.44	1.22	1.34	-.12	1.52	1.41	.11	.443	-.437	.567	8.26
28.	1.17	1.57	-.40	1.28	1.42	-.14	1.57	1.41	.16	.558	-.386	.550	8.85
29.	1.54	1.69	-.15	1.31	1.54	-.23	1.84	1.55	.29	.541	-.403	.552	8.70
30.	1.65	1.82	-.17	1.55	1.70	-.15	2.05	1.71	.34	.530	-.433	.535	8.58
31.	1.71	1.96	-.25	1.63	1.83	-.20	2.07	1.79	.27	.554	-.416	.527	8.84
32.	1.92	2.11	-.19	1.69	1.90	-.21	2.19	1.83	.36	.569	-.360	.542	9.53
33.	2.12	2.29	-.16	1.75	1.98	-.22	2.10	1.84	.26	.636	-.285	.559	10.51
34.	2.13	2.47	-.33	1.85	2.05	-.20	2.16	1.96	.20	.634	-.243	.592	11.07
35.	2.69	2.64	.05	1.89	2.07	-.18	2.62	2.24	.38	.569	-.251	.653	11.14
36.	2.76	2.79	-.03	1.84	2.02	-.18	2.80	2.48	.32	.507	-.244	.712	11.50
37.	2.93	2.93	.00	1.84	1.99	-.15	2.83	2.59	.23	.500	-.201	.748	12.42
38.	3.08	3.07	.02	1.85	1.94	-.09	2.88	2.69	.18	.498	-.154	.760	13.37
39.	3.16	3.19	-.03	1.73	1.89	-.16	3.03	2.83	.21	.470	-.129	.809	14.23
40.	3.23	3.31	-.08	1.83	1.88	-.05	3.13	2.95	.18	.468	-.113	.825	14.99
41.	3.32	3.43	-.11	1.76	1.85	-.10	3.20	3.06	.14	.460	-.099	.843	15.60
42.	3.41	3.54	-.13	1.71	1.79	-.08	3.38	3.17	.21	.447	-.065	.863	16.75
43.	3.43	3.64	-.21	1.66	1.76	-.10	3.41	3.25	.16	.456	-.032	.876	17.76
44.	3.56	3.75	-.19	1.69	1.81	-.12	3.49	3.33	.16	.459	-.027	.875	17.92
45.	3.58	3.86	-.28	1.87	1.93	-.06	3.67	3.42	.25	.466	-.038	.866	17.53
46.	3.63	3.99	-.35	1.92	2.03	-.11	3.63	3.42	.21	.514	.006	.861	17.83
47.	3.63	4.13	-.50	1.98	2.14	-.16	3.63	3.38	.25	.579	.075	.856	18.52
48.	3.41	4.31	-.90	2.15	2.28	-.13	3.68	3.35	.33	.638	.139	.852	19.24
49.	3.85	4.50	-.66	2.15	2.34	-.19	3.74	3.32	.41	.697	.200	.863	21.11
50.	3.91	4.71	-.80	2.09	2.46	-.37	3.77	3.55	.22	.674	.203	.860	20.60
51.	4.05	4.92	-.87	2.37	2.62	-.25	8.14	3.88	4.26	.621	.111	.848	18.91
52.	4.15	5.14	-.99	2.18	2.61	-.43	4.05	3.78	.25	.707	.270	.872	21.90
53.	4.21	5.38	-1.17	2.09	2.52	-.42	7.98	3.67	.31	.807	.488	.914	28.52
54.	4.33	5.64	-1.32	1.88	2.45	-.57	4.16	3.86	.30	.829	.576	.935	32.40
55.	4.36	5.90	-1.54	1.72	2.51	-.79	4.31	4.05	.26	.836	.594	.940	33.70
56.	4.65	6.18	-1.52	1.90	2.69	-.79	4.47	4.31	.16	.807	.532	.930	30.26
57.	9.65	6.44	3.21	2.05	2.81	-.75	10.75	4.89	5.86	.706	.354	.913	24.98
58.	9.60	6.67	2.93	2.28	2.84	-.56	11.68	5.63	6.06	.552	.151	.907	21.56
59.	9.86	6.83	3.02	2.20	2.96	-.75	9.68	6.62	3.06	.288	-.149	.904	18.30
60.	9.83	6.88	2.96	2.81	3.26	-.45	12.57	7.74	4.83	-.041	-.459	.907	15.87
61.	9.64	6.79	2.85	2.94	3.54	-.60	11.97	8.64	3.33	-.336	-.672	.923	15.02
62.	9.32	6.57	2.75	3.30	3.70	-.40	13.12	9.17	3.94	-.561	-.805	.942	15.48
63.	9.16	6.25	2.91	3.39	3.76	-.37	12.52	9.14	3.37	-.647	-.853	.950	15.53
64.	10.05	5.97	4.08	3.41	3.51	-.10	12.53	8.14	4.39	-.436	-.751	.922	13.16
65.	5.64	5.89	-.25	3.02	3.16	-.15	5.24	6.28	-1.04	.143	-.370	.867	12.80
66.	5.83	6.03	-.20	3.21	3.19	.02	5.31	5.53	-.22	.414	-.126	.851	13.90
67.	5.19	5.23	-.04	3.64	3.61	.14	5.75	5.80	-.06	.399	-.175	.833	13.71
68.	6.42	6.45	-.03	3.79	3.74	.06	5.98	6.07	-.09	.387	-.204	.824	12.86
69.	6.67	6.68	-.01	4.05	3.95	.00	6.22	6.36	-.14	.376	-.227	.818	11.60
70.	6.92	6.91	.01	4.30	4.24	.07	6.69	6.78	-.09	.338	-.288	.809	10.71
71.	7.12	7.13	-.01	4.58	4.47	.11	7.22	7.27	-.05	.292	-.338	.807	10.12
72.	7.40	7.32	.08	4.59	4.51	.08	7.68	7.73	-.05	.214	-.381	.822	10.01
73.	7.56	7.45	.12	4.45	4.49	-.04	8.05	8.17	-.11	.133	-.429	.830	10.06
74.	7.70	7.52	.17	4.64	4.62	.02	8.56	8.55	.01	.070	-.479	.842	9.66
75.	7.79	7.59	.20	4.96	4.87	.09	8.64	8.66	-.02	.095	-.488	.828	9.15
76.	7.87	7.70	.16	5.13	5.08	.11	8.35	8.40	-.05	.186	-.435	.804	8.98
77.	8.10	7.94	.17	5.38	5.34	-.04	7.79	7.98	-.18	.329	-.342	.775	9.12
78.	8.35	8.31	.04	5.91	5.55	.36	7.47	7.62	-.15	.455	-.235	.760	9.68
79.	8.89	8.77	.12	5.46	5.40	.05	7.26	7.54	-.28	.520	-.111	.791	10.90
80.	8.17	9.25	-1.08	5.07	5.14	-.08	7.79	7.93	-.14	.515	-.048	.831	12.06
81.	9.81	9.68	.13	5.05	5.18	-.13	9.81	9.73	.08	.443	-.103	.847	11.98
82.	10.13	10.05	.08	5.45	5.36	.09	9.67	9.52	.15	.369	-.180	.851	11.49
83.	10.47	10.37	.10	5.37	5.52	-.14	10.13	10.12	.02	.311	-.226	.855	11.23
84.	10.84	10.68	.16	5.81	5.83	-.02	10.65	10.49	.15	.304	-.246	.848	10.91
85.	11.14	11.04	.10	6.33	6.50	-.17	10.57	10.64	-.07	.354	-.248	.821	10.31
86.	11.54	11.52	.02	7.57	7.44	.13	10.74	10.80	-.06	.417	-.244	.780	9.57
87.	12.15	12.13	.02	8.35	8.12	.24	11.05	11.06	-.00	.461	-.229	.759	9.37
88.	12.80	12.84	-.04	8.26	8.36	-.11	11.29	11.39	-.10	.488	-.183	.768	9.74
89.	13.55	13.63	-.08	8.64	8.96	-.32	11.87	11.86	.01	.514	-.165	.761	9.79
90.	14.58	14.58	-.01	10.35	10.35	.00	12.36	12.37	-.00	.553	-.185	.717	9.21

MONTH = 7 LATITUDE = 30

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DPTH
22.	.99	1.86	-.87	1.19	1.30	-.10	1.35	1.22	.13	.758	.094	.721	13.92
23.	1.39	2.01	-.61	1.53	1.53	-.00	2.30	1.65	.65	.592	-.208	.665	10.41
24.	1.51	2.14	-.63	1.18	1.42	-.24	1.86	1.72	.14	.509	-.077	.762	12.22
25.	1.81	2.26	-.45	1.12	1.31	-.19	2.11	1.94	.17	.517	-.070	.817	13.26
26.	2.56	2.34	.23	1.25	1.33	-.08	2.89	2.37	.52	.264	-.303	.839	11.96
27.	2.63	2.39	.24	1.21	1.34	-.13	2.84	2.49	.35	.200	-.347	.860	12.06
28.	2.34	2.44	-.10	1.27	1.37	-.10	2.46	2.34	.12	.357	-.213	.836	12.73
29.	2.34	2.53	-.19	1.37	1.45	-.07	2.38	2.25	.13	.467	-.117	.823	13.39
30.	2.45	2.63	-.18	1.40	1.51	-.11	2.50	2.34	.16	.471	-.114	.823	13.46
31.	2.66	2.73	-.08	1.47	1.59	-.12	2.70	2.52	.18	.422	-.172	.821	13.02
32.	2.76	2.83	-.07	1.62	1.71	-.08	2.91	2.67	.24	.391	-.225	.809	12.45
33.	2.96	2.93	.03	1.73	1.79	-.06	2.88	2.72	.16	.417	-.208	.802	12.61
34.	3.03	3.05	-.02	1.72	1.82	-.10	2.85	2.69	.15	.481	-.130	.807	13.40
35.	2.98	3.18	-.20	1.78	1.85	-.06	2.75	2.67	.08	.544	-.043	.815	14.66
36.	2.97	3.33	-.35	1.78	1.88	-.10	2.87	2.69	.18	.587	.027	.825	15.74
37.	3.29	3.48	-.20	1.82	1.89	-.07	2.98	2.74	.14	.623	.101	.841	17.15
38.	3.50	3.65	-.15	1.77	1.85	-.08	2.98	2.84	.13	.640	.170	.866	18.84
39.	3.64	3.80	-.16	1.66	1.78	-.12	3.22	3.05	.17	.616	.184	.868	20.14
40.	3.77	3.94	-.17	1.67	1.78	-.11	3.49	3.30	.19	.558	.128	.884	20.00
41.	3.91	4.07	-.16	1.76	1.86	-.09	3.75	3.55	.20	.490	.038	.890	19.03
42.	4.08	4.18	-.10	1.88	1.96	-.08	3.98	3.75	.23	.444	-.028	.883	18.18
43.	4.20	4.30	-.10	1.96	1.99	-.03	4.07	3.84	.22	.448	-.016	.886	18.60
44.	4.28	4.42	-.14	1.81	1.95	-.14	4.00	3.83	.17	.500	.068	.898	20.31
45.	4.37	4.55	-.19	1.89	1.99	-.10	3.98	3.80	.18	.565	.150	.902	21.78
46.	4.37	4.71	-.34	2.03	2.15	-.12	3.95	3.80	.15	.612	.193	.894	21.72
47.	4.67	4.89	-.22	2.27	2.39	-.12	4.06	3.86	.20	.628	.176	.877	20.71
48.	5.44	5.08	.36	2.56	2.55	.01	4.18	4.13	.04	.586	.103	.866	19.42
49.	5.58	5.26	.33	2.25	2.42	-.17	4.17	4.43	-.27	.543	.097	.888	20.47
50.	5.09	5.42	-.33	1.99	2.15	-.15	4.48	4.53	-.05	.574	.216	.922	24.58
51.	5.32	5.57	-.24	1.95	2.02	-.07	4.86	4.69	.16	.581	.259	.937	26.80
52.	5.45	5.71	-.26	1.94	2.04	-.10	5.17	4.97	.20	.516	.181	.936	26.69
53.	5.56	5.84	-.28	2.08	2.14	-.06	5.39	5.18	.21	.475	.123	.932	26.38
54.	5.70	5.97	-.27	2.16	2.26	-.10	5.56	5.35	.21	.447	.077	.926	25.09
55.	5.86	6.10	-.24	2.31	2.38	-.06	5.79	5.55	.24	.413	.026	.921	23.94
56.	6.58	6.22	.36	2.37	2.51	-.14	6.01	5.82	.19	.355	-.051	.915	20.35
57.	6.17	6.33	-.16	2.62	2.70	-.08	6.41	6.06	.34	.311	-.120	.906	18.73
58.	6.32	6.45	-.13	2.81	2.89	-.08	6.35	6.13	.22	.333	-.120	.896	17.76
59.	6.49	6.59	-.10	2.91	3.10	-.18	6.36	6.16	.20	.370	-.107	.884	16.97
60.	6.75	6.76	-.02	3.28	3.45	-.17	6.64	6.31	.33	.391	-.139	.863	16.50
61.	6.97	6.96	.02	3.76	3.84	-.08	6.82	6.51	.31	.386	-.176	.839	14.08
62.	7.34	7.16	.17	3.80	4.06	-.16	7.08	6.84	.24	.362	-.215	.832	13.28
63.	8.03	7.35	.68	3.99	4.02	-.03	7.74	7.27	.47	.295	-.255	.849	13.17
64.	8.06	7.50	.55	3.54	3.66	-.12	7.86	7.56	.29	.229	-.259	.883	14.14
65.	7.74	7.61	.13	3.04	3.28	-.21	7.93	7.75	.18	.173	-.254	.909	15.56
66.	7.86	7.67	.19	3.10	3.22	-.12	8.14	8.03	.12	.097	-.308	.917	15.56
67.	7.93	7.70	.23	3.35	3.38	-.03	8.56	8.35	.21	.022	-.385	.914	14.65
68.	7.92	7.71	.21	3.54	3.56	-.02	8.61	8.52	.09	-.008	-.425	.908	13.57
69.	7.97	7.71	.26	3.69	3.77	-.08	8.58	8.55	.04	.009	-.432	.898	12.58
70.	8.02	7.72	.29	4.11	4.11	.00	8.52	8.60	-.08	.040	-.441	.879	11.40
71.	8.17	7.76	.41	4.58	4.49	.08	8.68	8.72	-.03	.064	-.459	.857	10.38
72.	8.36	7.82	.54	4.09	4.76	-.13	9.66	8.76	-.09	.097	-.457	.861	9.81
73.	8.61	7.92	.68	5.01	4.90	.11	8.45	8.73	-.27	.137	-.438	.871	9.60
74.	8.89	8.04	.85	5.21	5.03	.17	8.50	8.85	-.36	.145	-.439	.827	9.40
75.	9.18	8.14	1.04	5.44	5.26	.18	8.80	9.27	-.47	.093	-.485	.805	8.96
76.	9.38	8.20	1.18	6.00	5.57	.43	9.40	9.77	-.37	.032	-.544	.822	8.41
77.	9.13	8.27	.86	6.25	5.96	.30	9.38	9.68	-.30	.109	-.527	.791	7.80
78.	8.10	8.50	-.40	7.04	6.25	.79	8.26	8.87	-.61	.309	-.410	.741	8.09
79.	8.73	8.93	-.20	6.38	6.09	.29	7.55	8.15	-.60	.464	-.240	.749	9.20
80.	9.03	9.45	-.42	6.90	6.78	.12	7.70	8.11	-.41	.521	-.105	.784	10.60
81.	9.90	9.98	-.09	6.85	6.67	.17	8.36	8.59	-.23	.514	-.063	.824	11.23
82.	10.37	10.50	-.13	6.74	6.62	.12	9.04	9.24	-.20	.473	-.064	.845	11.58
83.	10.85	10.96	-.11	6.64	6.63	.01	9.80	10.08	-.29	.406	-.117	.860	11.54
84.	11.34	11.32	.02	6.85	6.95	-.10	11.11	11.26	-.15	.274	-.253	.861	10.66
85.	11.54	11.56	-.02	6.74	6.71	.03	12.48	12.50	-.02	.146	-.403	.867	9.33
86.	11.68	11.71	.17	7.79	7.67	.12	13.43	13.50	-.07	.075	-.502	.894	8.16
87.	12.27	11.85	.42	9.69	8.30	.39	14.10	13.68	.42	.114	-.509	.798	7.61
88.	11.94	12.14	-.20	8.47	8.41	.06	12.41	12.96	-.55	.246	-.419	.777	7.80
89.	12.40	12.62	-.22	8.41	8.48	-.06	12.32	12.48	-.15	.353	-.323	.772	8.34
90.	12.94	13.26	-.32	8.88	8.85	.02	12.47	12.51	-.03	.417	-.266	.765	8.64

MONTH = 7 LATITUDE = 50
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RRD	DEPTH
22.	.95	1.22	-.27	.71	.73	-.02	1.12	1.09	.03	.465	-.145	.868	12.45
23.	1.19	1.27	-.08	.89	.88	.00	1.39	1.24	.14	.379	-.325	.753	10.24
24.	1.22	1.33	-.11	.95	.98	-.03	1.25	1.24	.00	.453	-.300	.714	10.12
25.	1.32	1.40	-.09	.99	.99	-.00	1.28	1.24	.05	.511	-.293	.724	10.99
26.	1.35	1.48	-.12	.90	.96	-.06	1.34	1.28	.06	.516	-.156	.766	12.02
27.	1.39	1.55	-.17	.90	.94	-.03	1.41	1.32	.09	.535	-.080	.800	13.28
28.	1.42	1.63	-.21	.85	.93	-.08	1.41	1.30	.11	.601	.041	.824	15.01
29.	1.44	1.72	-.28	.89	.97	-.10	1.37	1.24	.13	.708	.196	.832	17.20
30.	1.51	1.83	-.33	1.01	1.07	-.06	1.28	1.19	.09	.789	.316	.832	19.41
31.	1.61	1.96	-.35	1.01	1.13	-.11	1.38	1.21	.17	.826	.407	.851	21.67
32.	1.65	2.10	-.44	1.01	1.23	-.22	1.50	1.30	.20	.821	.374	.838	21.01
33.	2.13	2.25	-.12	1.34	1.42	-.08	1.67	1.39	.28	.804	.274	.793	19.01
34.	2.26	2.41	-.16	1.35	1.53	-.19	1.69	1.47	.23	.815	.296	.705	19.64
35.	2.51	2.59	-.08	1.43	1.56	-.13	1.76	1.57	.19	.826	.369	.828	21.54
36.	2.44	2.77	-.33	1.41	1.58	-.17	1.98	1.71	.26	.824	.407	.853	22.76
37.	2.96	2.94	.02	1.48	1.62	-.14	2.06	1.88	.18	.815	.417	.867	23.46
38.	3.19	3.12	.08	1.53	1.66	-.13	2.31	2.12	.19	.770	.359	.867	22.26
39.	3.37	3.28	.09	1.58	1.70	-.12	2.66	2.44	.22	.687	.224	.862	20.24
40.	3.47	3.42	.05	1.66	1.77	-.10	2.94	2.75	.19	.601	.105	.858	18.71
41.	3.64	3.55	.08	1.78	1.88	-.10	3.17	3.00	.17	.535	.008	.849	17.48
42.	3.75	3.68	.07	1.95	2.00	-.05	3.37	3.20	.17	.490	-.051	.840	16.68
43.	3.87	3.81	.06	2.01	1.96	.05	3.43	3.26	.17	.517	.002	.867	17.92
44.	3.98	3.94	.04	1.63	1.78	-.16	3.28	3.25	.03	.580	.154	.894	21.58
45.	4.17	4.07	.10	1.69	1.77	-.09	3.37	3.31	.05	.696	.208	.905	23.12
46.	4.17	4.21	-.04	1.95	2.04	-.10	3.54	3.51	.03	.558	.086	.875	19.88
47.	4.34	4.36	-.02	2.45	2.53	-.07	3.85	3.72	.14	.527	-.061	.816	16.20
48.	2.74	4.55	-1.81	2.95	2.86	.09	4.10	3.72	.38	.578	-.061	.779	15.71
49.	4.78	4.76	.01	2.40	2.63	-.23	3.92	3.59	.33	.667	.150	.837	19.52
50.	4.91	4.97	-.06	1.91	2.16	-.25	4.03	3.67	.37	.741	.415	.918	27.66
51.	5.06	5.15	-.09	1.67	1.90	-.23	4.36	3.97	.39	.735	.476	.946	32.11
52.	5.18	5.32	-.14	1.74	1.92	-.18	4.76	4.31	.46	.658	.367	.942	29.62
53.	5.34	5.48	-.14	1.95	2.08	-.13	4.99	4.59	.40	.582	.241	.929	25.76
54.	5.51	5.63	-.12	2.08	2.23	-.15	5.29	4.85	.44	.523	.147	.922	24.51
55.	5.69	5.77	-.18	2.17	2.33	-.15	5.52	5.10	.42	.474	.079	.915	23.20
56.	5.65	5.90	.75	2.29	2.44	-.15	5.69	5.34	.35	.426	.015	.911	20.94
57.	5.75	6.03	-.29	2.44	2.56	-.12	5.95	5.57	.37	.386	-.042	.905	19.72
58.	5.87	6.17	-.30	2.56	2.68	-.12	6.07	5.70	.38	.386	-.052	.901	19.86
59.	5.95	6.31	-.36	2.60	2.80	-.20	6.09	5.73	.37	.421	-.025	.896	18.77
60.	6.03	6.48	-.45	2.81	3.00	-.19	6.19	5.80	.39	.446	-.020	.886	18.06
61.	6.36	6.67	-.31	3.07	3.28	-.22	6.45	6.03	.42	.431	-.068	.871	16.53
62.	6.73	6.85	-.12	3.33	3.44	-.11	6.99	6.35	.64	.391	-.119	.867	15.66
63.	7.23	7.03	.20	3.17	3.33	-.16	6.96	6.66	.29	.344	-.137	.883	15.99
64.	7.65	7.17	.48	2.95	3.15	-.19	7.41	6.98	.42	.279	-.164	.902	16.53
65.	7.50	7.28	.21	2.96	3.05	-.09	7.57	7.27	.30	.244	-.205	.912	16.74
66.	7.64	7.36	.27	2.87	2.99	-.12	7.78	7.55	.22	.138	-.261	.920	16.67
67.	7.67	7.40	.26	2.89	2.97	-.08	8.11	7.85	.26	.046	-.335	.926	16.36
68.	7.65	7.41	.24	2.95	2.99	-.04	8.18	8.03	.15	-.013	-.385	.928	15.94
69.	7.67	7.40	.27	2.99	3.09	-.09	8.20	8.09	.12	-.024	-.403	.924	15.10
70.	7.70	7.40	.30	3.29	3.33	-.04	8.08	8.10	-.02	.082	-.409	.912	13.71
71.	7.81	7.41	.40	3.72	3.69	.03	8.15	8.13	.02	.044	-.413	.891	12.12
72.	7.96	7.46	.50	4.10	4.01	.09	8.00	8.07	-.07	.110	-.395	.870	11.06
73.	8.18	7.57	.61	4.33	4.24	.09	7.75	7.97	-.22	.183	-.358	.852	10.46
74.	8.47	7.72	.75	4.56	4.45	.14	7.71	8.06	-.35	.210	-.361	.842	10.02
75.	8.79	7.87	.92	4.88	4.75	.13	8.10	8.53	-.43	.156	-.414	.835	9.26
76.	9.00	7.97	1.03	5.54	5.17	.36	8.86	9.18	-.32	.072	-.501	.827	8.32
77.	8.86	8.06	.80	5.96	5.58	.37	9.07	9.32	-.25	.103	-.510	.803	7.64
78.	8.04	8.26	-.22	6.42	5.79	.63	8.14	8.78	-.64	.257	-.417	.771	7.60
79.	8.57	8.61	-.04	5.91	5.68	.24	7.79	8.35	-.56	.376	-.292	.776	8.24
80.	9.12	9.06	.06	5.76	5.56	.19	8.04	8.44	-.40	.414	-.214	.800	8.80
81.	9.57	9.53	.03	5.96	5.59	.36	8.53	8.84	-.31	.413	-.188	.817	9.04
82.	10.02	10.01	.01	5.78	5.60	.19	9.04	9.31	-.27	.400	-.171	.835	9.25
83.	10.48	10.46	.02	5.70	5.61	.09	9.52	9.92	-.40	.363	-.183	.850	9.32
84.	10.99	10.85	.14	5.88	5.88	.00	10.56	10.88	-.32	.266	-.275	.854	8.76
85.	11.31	11.13	.18	6.64	6.42	.22	11.88	12.01	-.13	.145	-.400	.840	7.86
86.	11.75	11.26	.50	7.14	6.90	.24	12.65	12.99	-.34	.036	-.500	.848	7.31
87.	12.18	11.27	.91	7.45	7.06	.40	13.44	13.38	.07	-.013	-.538	.850	7.16
88.	11.20	11.27	-.06	7.18	7.07	.11	12.25	13.28	-1.03	.003	-.530	.846	7.13
89.	11.04	11.28	-.25	7.51	7.60	-.09	13.43	13.50	-.07	.016	-.549	.827	6.66
90.	10.45	11.40	-.96	9.00	8.89	.11	13.52	13.68	-.16	.108	-.569	.763	5.78

MONTH = 7 LATITUDE = 70
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	.86	1.36	-.50	1.11	1.17	-.06	1.21	1.14	.06	.600	-.310	.575	9.77
23.	1.02	1.47	-.45	1.07	1.21	-.14	1.35	1.17	.18	.636	-.234	.601	10.61
24.	1.19	1.58	-.39	1.10	1.28	-.18	1.44	1.28	.16	.618	-.232	.621	10.64
25.	1.55	1.69	-.15	1.22	1.40	-.18	1.87	1.58	.29	.494	-.358	.635	9.40
26.	1.91	1.78	.13	1.40	1.54	-.14	2.28	1.96	.31	.311	-.505	.663	8.23
27.	2.20	1.84	.36	1.52	1.65	-.14	2.58	2.24	.3	.180	-.591	.687	7.70
28.	2.26	1.88	.38	1.65	1.71	-.06	2.48	2.27	.21	.206	-.584	.674	7.74
29.	2.25	1.95	.30	1.66	1.72	-.05	2.16	2.15	.01	.318	-.510	.654	8.28
30.	2.13	2.04	.09	1.66	1.69	-.03	2.12	2.03	.10	.423	-.409	.654	9.27
31.	2.13	2.16	-.03	1.66	1.67	-.01	1.87	1.85	.02	.560	-.250	.665	10.96
32.	2.10	2.30	-.21	1.61	1.66	-.06	1.65	1.73	-.08	.663	-.079	.694	13.16
33.	2.36	2.46	-.10	1.66	1.69	-.03	1.89	1.86	.03	.654	-.042	.728	13.82
34.	2.59	2.60	-.01	1.67	1.69	-.02	2.19	2.11	.09	.591	-.070	.763	13.80
35.	2.80	2.74	.07	1.60	1.67	-.06	2.35	2.28	.07	.555	-.065	.794	14.50
36.	2.85	2.87	-.02	1.66	.68	-.02	2.43	2.28	.14	.604	.022	.810	15.80
37.	2.86	3.02	-.15	1.69	1.72	-.02	2.11	2.13	-.03	.726	.221	.842	19.20
38.	3.20	3.19	.01	1.70	1.81	-.11	2.05	2.12	-.07	.778	.319	.844	21.38
39.	3.08	3.37	-.29	2.01	1.99	.03	2.43	2.55	-.11	.658	.091	.819	17.36
40.	3.34	3.52	-.19	2.04	2.09	-.04	3.52	3.02	.50	.520	-.083	.808	15.41
41.	3.63	3.67	-.04	2.03	2.09	-.06	2.93	3.07	-.14	.550	-.026	.821	16.44
42.	3.90	3.82	.09	2.05	2.09	-.04	3.22	3.13	.10	.575	.035	.838	17.74
43.	4.18	3.96	.21	2.02	2.07	-.05	3.42	3.32	.10	.547	.030	.857	18.27
44.	4.29	4.11	.19	2.05	2.07	-.02	3.44	3.39	.05	.564	.077	.864	17.46
45.	4.33	4.26	.07	2.07	2.04	.04	3.41	3.41	.00	.615	.171	.882	21.66
46.	4.32	4.41	-.09	1.89	1.94	-.05	3.46	3.50	-.04	.639	.251	.905	24.23
47.	4.59	4.55	.03	1.86	1.86	.00	3.76	3.70	.06	.621	.262	.919	25.73
48.	4.74	4.69	.06	1.78	1.78	.01	3.90	3.93	-.04	.579	.238	.930	26.69
49.	5.01	4.80	.22	1.67	1.67	-.00	4.23	4.24	-.01	.490	.162	.939	27.38
50.	5.25	4.88	.37	1.56	1.55	.01	4.58	4.59	-.00	.341	.024	.948	27.86
51.	5.37	4.93	.44	1.47	1.46	.01	4.84	4.86	-.02	.196	-.102	.956	28.63
52.	5.40	4.96	.44	1.42	1.40	.02	4.91	4.96	-.05	.138	-.145	.960	29.58
53.	5.26	4.99	.28	1.43	1.33	.10	4.79	4.88	-.09	.210	-.057	.964	31.74
54.	4.75	5.03	-.28	1.17	1.24	-.07	4.56	4.74	-.18	.348	.108	.970	35.62
55.	4.80	5.09	-.29	1.31	1.29	.01	4.62	4.74	-.12	.385	.140	.968	35.03
56.	4.96	5.14	-.18	1.48	1.46	.02	4.85	4.88	-.04	.316	.038	.959	30.21
57.	5.04	5.20	-.15	1.63	1.60	.03	5.03	5.07	-.04	.229	-.081	.952	26.80
58.	5.29	5.23	.06	1.71	1.70	.00	5.28	5.28	-.00	.136	-.188	.948	24.71
59.	5.48	5.26	.23	1.79	1.74	.06	5.44	5.38	.06	.092	-.233	.947	23.93
60.	5.63	5.29	.35	1.70	1.76	-.05	5.23	5.27	-.04	.178	-.155	.945	23.91
61.	5.15	5.35	-.20	1.90	1.89	.01	4.94	5.06	-.11	.327	-.027	.936	23.00
62.	5.20	5.44	-.24	2.13	2.00	.13	4.88	4.95	-.06	.421	.060	.930	22.69
63.	5.25	5.56	-.31	1.89	1.94	-.05	4.95	4.93	.01	.460	.149	.930	24.33
64.	5.29	5.69	-.40	1.84	1.95	-.11	4.98	5.00	-.02	.505	.184	.942	24.74
65.	5.66	5.83	-.03	2.17	2.08	.08	5.27	5.15	.11	.484	.143	.935	23.03
66.	6.01	5.97	.04	2.05	2.09	-.03	5.37	5.31	.07	.475	.141	.938	22.94
67.	6.13	6.11	.02	1.97	2.02	-.05	5.49	5.44	.04	.477	.165	.945	23.80
68.	6.23	6.25	-.02	2.00	2.04	-.04	5.66	5.63	.03	.453	.139	.946	23.18
69.	6.36	6.38	-.02	2.13	2.10	.03	5.91	5.83	.07	.414	.092	.945	22.05
70.	6.48	6.51	-.03	2.08	2.10	-.03	6.06	6.03	.03	.390	.061	.946	21.72
71.	6.76	6.63	.13	2.07	2.11	-.04	6.28	6.19	.09	.350	.044	.948	21.32
72.	6.92	6.75	.16	2.16	2.18	-.02	6.30	6.31	-.01	.360	.041	.947	20.45
73.	7.06	6.89	.18	2.30	2.31	-.01	6.41	6.43	-.02	.359	.026	.942	19.16
74.	7.23	7.03	.21	2.51	2.52	-.01	6.56	6.64	-.07	.330	-.029	.934	17.23
75.	7.44	7.17	.27	2.81	2.81	.00	6.86	6.95	-.09	.270	-.125	.921	15.04
76.	7.61	7.29	.32	3.22	3.17	.05	7.25	7.33	-.09	.204	-.230	.906	12.99
77.	7.85	7.40	.45	3.64	3.40	.24	7.53	7.65	-.11	.155	-.294	.898	11.74
78.	8.07	7.50	.56	3.40	3.37	.03	7.63	7.70	-.07	.165	-.277	.902	11.63
79.	7.64	7.64	.00	3.42	3.42	-.00	7.20	7.61	-.41	.231	-.217	.899	11.42
80.	7.86	7.81	.05	3.86	3.72	.15	7.57	7.78	-.21	.246	-.230	.886	10.41
81.	8.12	7.99	.13	4.13	4.02	.11	7.99	8.19	-.21	.231	-.295	.877	9.44
82.	8.32	8.15	.16	4.37	4.28	.09	8.46	8.61	-.15	.152	-.354	.871	8.68
83.	8.51	8.29	.22	4.68	4.59	.09	8.75	8.99	-.24	.117	-.403	.862	7.92
84.	8.70	8.41	.29	5.10	4.94	.16	9.15	9.31	-.17	.100	-.447	.862	7.21
85.	8.96	8.54	.42	5.43	5.12	.30	9.25	9.42	-.17	.118	-.436	.842	6.88
86.	9.30	8.69	.61	5.19	4.90	.29	8.96	9.43	-.47	.124	-.406	.857	7.32
87.	9.62	8.78	.83	4.55	4.50	.05	9.25	9.71	-.46	.039	-.428	.846	8.00
88.	8.76	8.69	.07	4.55	4.61	-.06	9.79	10.64	-.85	-.206	-.681	.906	7.90
89.	8.12	8.27	-.15	5.65	5.94	-.29	11.95	12.67	-.13	-.927	-.785	.895	6.31
90.	8.77	7.63	-.86	8.77	8.61	.17	12.95	13.19	-.24	-.319	-.836	.785	3.86

MONTH = 7 LATITUDE = 90

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RRD	DEPTH
22.	.83	1.38	-.55	1.22	1.29	-.07	1.24	1.16	.08	.625	-.368	.496	9.47
23.	.96	1.50	-.55	1.13	1.30	-.18	1.34	1.14	.19	.678	-.248	.584	10.94
24.	1.18	1.63	-.45	1.15	1.36	-.22	1.49	1.27	.22	.651	-.238	.582	11.06
25.	1.59	1.75	-.15	1.27	1.51	-.23	2.00	1.62	.38	.510	-.378	.603	9.56
26.	2.03	1.84	.19	1.51	1.68	-.17	2.47	2.06	.41	.316	-.534	.638	8.19
27.	2.37	1.90	.47	1.65	1.82	-.18	2.81	2.39	.42	.179	-.622	.660	7.57
28.	2.44	1.95	.49	1.81	1.90	-.09	2.70	2.43	.27	.203	-.618	.644	7.69
29.	2.41	2.01	.40	1.82	1.89	-.07	2.32	2.30	.03	.310	-.552	.622	8.17
30.	2.26	2.11	.15	1.79	1.85	-.06	2.29	2.16	.13	.408	-.457	.626	9.17
31.	2.24	2.23	.01	1.80	1.82	-.01	1.97	1.95	.03	.552	-.302	.628	10.88
32.	2.19	2.37	-.19	1.75	1.80	-.06	1.69	1.80	-.11	.661	-.131	.657	13.08
33.	2.50	2.53	-.03	1.79	1.82	-.03	1.98	1.96	.02	.630	-.103	.700	13.61
34.	2.76	2.67	.09	1.80	1.80	-.01	2.35	2.27	.08	.541	-.157	.745	13.35
35.	2.96	2.79	.17	1.71	1.76	-.05	2.57	2.49	.09	.480	-.178	.783	13.85
36.	2.94	2.91	.03	1.76	1.76	-.00	2.55	2.43	.12	.552	-.064	.797	15.25
37.	2.81	3.06	-.25	1.77	1.78	-.00	2.13	2.17	-.04	.718	.102	.821	19.15
38.	3.16	3.23	-.08	1.74	1.88	-.14	1.96	2.07	-.11	.800	.342	.837	22.30
39.	3.00	3.42	-.42	2.16	2.11	.05	2.37	2.55	-.18	.670	.073	.785	17.16
40.	3.37	3.58	-.22	2.18	2.24	-.06	3.77	3.12	.66	.507	-.135	.785	14.68
41.	3.77	3.73	.04	2.18	2.24	-.07	2.95	3.14	-.19	.541	-.070	.801	15.76
42.	4.12	3.89	.24	2.17	2.21	-.04	3.31	3.20	.11	.568	.000	.823	17.22
43.	4.43	4.03	.40	2.10	2.13	-.07	3.54	3.44	.09	.521	-.022	.842	17.66
44.	4.56	4.17	.39	2.20	2.19	.01	3.59	3.55	.04	.527	.009	.851	18.44
45.	4.56	4.32	.25	2.21	2.13	.08	3.53	3.54	-.01	.577	.100	.871	20.50
46.	4.46	4.46	-.00	1.93	1.93	-.00	3.48	3.59	-.11	.625	.238	.907	24.73
47.	4.71	4.60	.10	1.71	1.79	-.07	3.77	3.76	.01	.622	.286	.928	27.60
48.	5.26	4.72	.54	1.86	1.69	.16	3.89	4.04	-.15	.553	.226	.937	28.68
49.	5.18	4.81	.37	1.44	1.52	-.08	4.39	4.47	-.08	.374	.062	.949	29.26
50.	5.46	4.85	.61	1.48	1.41	.07	4.83	4.92	-.09	.096	-.192	.958	29.96
51.	5.57	4.85	.73	1.42	1.36	.06	5.08	5.20	-.12	-.130	-.382	.966	31.93
52.	5.58	4.82	.76	1.33	1.27	.06	5.07	5.25	-.18	-.223	-.445	.972	33.28
53.	5.35	4.80	.56	1.25	1.07	.18	4.85	5.05	-.21	-.137	-.341	.978	38.23
54.	4.57	4.79	-.22	.70	.85	-.15	4.44	4.77	-.34	.111	-.064	.984	47.72
55.	4.60	4.81	-.21	.94	.89	.04	4.42	4.68	-.26	.236	.052	.988	46.16
56.	4.35	4.84	-.49	1.17	1.19	-.02	4.64	4.79	-.15	.162	-.085	.969	33.72
57.	4.83	4.85	-.02	1.67	1.52	.14	4.80	4.98	-.18	.074	-.234	.952	25.88
58.	5.15	4.85	.30	1.78	1.64	.14	5.11	5.24	-.13	-.076	-.383	.959	23.73
59.	5.39	4.82	.57	1.53	1.47	.06	5.33	5.38	-.05	-.254	-.500	.965	26.87
60.	5.60	4.78	.82	1.25	1.29	-.04	5.01	5.19	-.18	-.192	-.426	.970	29.48
61.	4.79	4.78	.01	1.40	1.36	.04	4.49	4.78	-.29	.143	-.142	.980	27.23
62.	4.76	4.83	-.07	1.71	1.49	.22	4.17	4.40	-.23	.434	.137	.992	27.08
63.	4.32	4.94	-.63	1.48	1.49	-.02	3.92	4.15	-.23	.641	.405	.961	31.86
64.	4.18	5.09	-.91	1.51	1.58	-.08	3.80	4.08	-.28	.730	.523	.964	34.01
65.	5.20	5.26	-.05	1.83	1.74	.09	4.23	4.14	.09	.739	.517	.969	31.82
66.	5.36	5.44	-.09	1.69	1.73	-.04	4.28	4.20	.01	.761	.563	.965	33.64
67.	5.53	5.63	-.11	1.54	1.66	-.12	4.27	4.49	-.22	.766	.592	.971	35.59
68.	5.68	5.82	-.14	1.57	1.70	-.14	4.51	4.71	-.20	.738	.551	.970	33.07
69.	6.36	6.02	.34	1.75	1.73	.02	4.91	4.94	-.03	.710	.515	.969	31.37
70.	6.52	6.20	.17	1.47	1.52	-.05	5.22	5.28	-.06	.683	.514	.978	34.46
71.	6.37	6.34	.03	1.05	1.16	-.11	5.52	5.75	-.23	.576	.433	.986	40.60
72.	6.53	6.43	.10	.77	.95	-.18	6.62	6.08	-.46	.428	.297	.990	45.11
73.	6.65	6.50	.15	.88	1.01	-.13	6.89	6.07	-.18	.490	.358	.989	43.51
74.	6.77	6.61	.16	1.17	1.31	-.14	6.13	5.95	.18	.577	.421	.984	35.95
75.	6.93	6.75	.18	1.62	1.68	-.06	6.40	6.00	.39	.545	.333	.972	27.59
76.	7.09	6.91	.17	1.90	2.06	-.16	6.62	6.27	.35	.445	.162	.956	21.39
77.	7.48	7.05	.43	2.41	2.09	.33	6.95	6.72	.23	.303	.007	.955	20.03
78.	8.07	7.13	.94	1.30	1.79	-.49	7.45	7.05	.40	.171	-.081	.968	22.63
79.	7.30	7.19	.11	1.98	2.08	-.10	6.99	7.14	-.14	.171	-.118	.958	19.45
80.	7.39	7.27	.13	2.98	2.83	.14	7.40	7.37	.03	.158	-.229	.925	14.28
81.	7.58	7.33	.25	3.37	3.37	.00	7.80	7.82	-.03	.079	-.357	.903	11.31
82.	7.66	7.36	.31	3.79	3.78	.01	8.26	8.26	-.00	.003	-.455	.880	9.59
83.	7.73	7.34	.39	4.29	4.22	.07	8.48	8.59	-.11	-.032	-.519	.871	7.90
84.	7.79	7.32	.46	4.81	4.60	.21	8.62	8.69	-.06	-.010	-.538	.868	6.86
85.	8.03	7.37	.66	4.96	4.60	.36	8.20	8.36	-.17	.081	-.479	.876	6.40
86.	8.32	7.49	.82	4.35	3.98	.37	7.33	7.89	-.56	.164	-.348	.867	7.66
87.	8.59	7.59	1.00	3.02	3.21	-.19	7.33	8.13	-.80	.038	-.360	.919	9.59
88.	7.77	7.46	.32	3.23	3.44	-.21	8.82	9.25	-.43	-.354	-.657	.938	9.38
89.	8.87	8.97	-.09	4.88	5.36	-.48	11.41	10.76	.65	-.515	-.832	.908	6.64
90.	4.97	6.17	-1.20	8.69	8.68	.02	12.75	12.60	.15	-.494	-.896	.782	3.15

MONTH = 8 LATITUDE = 10
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	2.19	1.64	.55	1.44	1.50	-.07	3.38	2.90	.48	-.698	-.914	.928	9.60
23.	1.64	1.52	.02	1.80	1.66	.14	2.62	2.55	.07	-.287	-.821	.783	6.02
24.	1.16	1.48	-.33	1.59	1.58	.01	1.96	2.13	-.16	.035	-.716	.671	5.97
25.	1.48	1.50	-.02	1.32	1.45	-.13	2.01	1.94	.06	.135	-.642	.673	6.70
26.	1.46	1.54	-.09	1.48	1.47	.01	1.93	1.90	.03	.207	-.607	.652	6.93
27.	1.42	1.60	-.19	1.48	1.53	-.04	1.89	1.82	.06	.329	-.554	.618	7.28
28.	1.48	1.69	-.21	1.48	1.54	-.06	1.82	1.75	.07	.420	-.477	.598	8.02
29.	1.49	1.80	-.31	1.47	1.57	-.11	1.80	1.66	.14	.523	-.381	.589	9.04
30.	1.62	1.94	-.31	1.51	1.63	-.12	1.70	1.58	.12	.617	-.275	.587	10.29
31.	2.00	2.09	-.09	1.56	1.72	-.16	1.72	1.62	.10	.653	-.217	.598	11.06
32.	1.96	2.26	-.30	1.71	1.82	-.12	2.00	1.74	.27	.657	-.195	.611	11.40
33.	2.11	2.44	-.33	1.73	1.88	-.15	1.97	1.83	.14	.667	-.137	.646	12.19
34.	2.40	2.61	-.21	1.70	1.88	-.18	2.24	2.06	.18	.623	-.124	.700	12.52
35.	2.87	2.76	.11	1.73	1.88	-.15	2.75	2.40	.35	.519	-.186	.744	12.28
36.	2.93	2.89	.04	1.74	1.87	-.13	2.86	2.63	.23	.456	-.211	.[illegible]	12.48
37.	3.08	3.00	.07	1.76	1.85	-.09	2.92	2.70	.21	.462	-.170	.795	13.30
38.	3.21	3.12	.09	1.73	1.81	-.09	2.84	2.76	.07	.478	-.114	.818	14.30
39.	3.30	3.24	.06	1.70	1.80	-.10	3.03	2.91	.13	.452	-.117	.83[illegible]	14.85
40.	3.40	3.34	.06	1.82	1.84	-.02	3.21	3.10	.11	.403	-.160	.849	14.80
41.	3.48	3.43	.05	1.80	1.85	-.05	3.35	3.26	.09	.369	-.189	.849	14.94
42.	3.58	3.52	.06	1.79	1.84	-.05	3.48	3.40	.08	.326	-.204	.859	15.34
43.	3.61	3.60	.02	1.82	1.83	-.01	3.56	3.49	.07	.313	-.202	.867	15.80
44.	3.72	3.67	.05	1.77	1.83	-.05	3.58	3.56	.03	.316	-.189	.872	16.20
45.	3.74	3.75	-.01	1.85	1.89	-.04	3.66	3.62	.04	.320	-.191	.869	16.25
46.	3.80	3.83	-.03	1.99	1.98	.01	3.73	3.69	.04	.327	-.197	.860	15.93
47.	3.90	3.91	-.01	2.00	2.03	-.03	3.78	3.77	.01	.331	-.197	.860	15.93
48.	3.80	4.00	-.19	2.05	2.02	.04	3.92	3.85	.07	.325	-.186	.869	16.51
49.	4.09	4.08	.02	1.86	1.92	-.05	3.94	3.92	.02	.316	-.160	.886	17.73
50.	4.15	4.15	-.00	1.79	1.92	-.13	4.07	4.02	.04	.297	-.171	.880	18.03
51.	4.23	4.22	.01	2.14	2.04	.11	4.21	4.15	.06	.278	-.208	.882	17.19
52.	4.29	4.29	-.01	1.99	2.06	-.08	4.27	4.21	.06	.291	-.203	.882	17.13
53.	4.31	4.37	-.06	2.06	2.00	.06	4.24	4.22	.02	.304	-.159	.892	18.06
54.	4.37	4.45	-.08	1.82	1.87	-.05	4.27	4.21	.06	.332	-.094	.908	19.76
55.	4.39	4.53	-.13	1.72	1.83	-.11	4.25	4.25	-.00	.347	-.060	.915	20.73
56.	4.59	4.61	-.02	1.96	1.95	.01	4.45	4.39	.06	.329	-.106	.907	19.35
57.	4.57	4.69	-.12	2.06	2.08	-.02	4.64	4.53	.11	.296	-.153	.898	18.16
58.	4.58	4.77	-.19	2.12	2.16	-.03	4.68	4.57	.11	.319	-.140	.894	17.84
59.	4.59	4.87	-.28	2.16	2.30	-.14	4.64	4.61	.03	.347	-.133	.884	17.19
60.	4.88	4.98	-.10	2.54	2.57	-.03	4.95	4.78	.17	.336	-.199	.868	15.47
61.	5.13	5.10	.02	2.75	2.81	-.06	5.15	4.91	.24	.343	-.216	.864	14.26
62.	5.20	5.25	-.05	2.88	2.99	-.10	4.99	4.94	.05	.333	-.197	.836	13.82
63.	5.51	5.41	.09	3.11	3.16	-.04	5.20	5.09	.11	.332	-.203	.821	13.32
64.	5.86	5.59	.27	3.23	3.21	.02	5.46	5.25	.21	.330	-.195	.827	13.38
65.	5.72	5.78	-.06	3.00	3.16	-.16	5.31	5.27	.04	.426	-.133	.840	13.95
66.	5.91	5.98	-.08	3.20	3.31	-.11	5.39	5.39	.00	.447	-.119	.835	13.72
67.	6.27	6.21	.06	3.84	3.82	.02	5.82	5.69	.13	.429	-.167	.819	13.60
68.	6.49	6.45	.04	3.79	3.83	-.04	6.06	5.98	.07	.412	-.196	.813	12.17
69.	6.73	6.69	.05	3.93	4.02	-.10	6.30	6.30	.00	.394	-.220	.810	11.76
70.	6.98	6.93	.05	4.30	4.31	-.01	6.77	6.74	.04	.395	-.274	.802	10.92
71.	7.18	7.16	.02	4.59	4.54	.04	7.29	7.24	.05	.299	-.331	.801	10.40
72.	7.45	7.35	.10	4.59	4.57	.02	7.75	7.70	.05	.232	-.372	.817	10.26
73.	7.61	7.49	.12	4.46	4.54	-.09	8.12	8.15	-.03	.152	-.417	.835	10.24
74.	7.74	7.58	.15	4.65	4.67	-.02	8.63	8.54	.09	.091	-.466	.839	8.86
75.	7.81	7.66	.15	4.96	4.92	.04	8.71	8.65	.05	.107	-.474	.826	9.41
76.	7.89	7.80	.09	5.19	5.13	.06	8.42	8.40	.02	.206	-.419	.882	9.23
77.	8.13	8.04	.08	5.30	5.39	-.08	7.87	7.99	-.12	.345	-.326	.774	9.41
78.	8.39	8.42	-.03	5.90	5.60	.29	7.58	7.65	-.07	.466	-.220	.741	9.90
79.	8.90	8.89	.01	5.45	5.46	-.00	7.37	7.56	-.19	.533	-.095	.702	11.20
80.	8.17	9.38	-1.21	5.08	5.22	-.14	7.86	7.92	-.06	.536	-.024	.831	13.41
81.	9.60	9.84	-.24	5.11	5.28	-.17	8.86	8.68	.19	.475	-.069	.845	13.20
82.	10.11	10.21	-.11	5.48	5.57	-.09	9.71	9.87	-.16	.338	-.219	.867	11.20
83.	22.14	10.48	11.66	5.40	5.81	-.40	10.15	10.91	-.75	.202	-.339	.853	10.62
84.	10.88	10.71	.09	5.83	5.97	-.14	10.64	10.89	-.26	.248	-.305	.847	10.62
85.	11.10	11.04	.06	6.34	6.51	-.17	10.52	10.61	-.09	.361	-.239	.820	10.43
86.	11.50	11.52	-.02	7.67	7.44	.13	10.67	10.73	-.06	.435	-.236	.779	9.79
87.	12.11	12.14	-.02	8.34	8.11	.23	10.99	10.99	-.01	.466	-.221	.758	9.66
88.	12.77	12.83	-.06	8.26	8.38	-.12	11.27	11.35	-.09	.433	-.181	.767	10.00
89.	13.54	13.61	-.07	9.68	9.01	-.33	11.86	11.84	.01	.514	-.179	.758	10.00
90.	14.56	14.52	.04	10.44	10.44	-.00	12.38	12.38	.00	.556	-.198	.715	9.66
95.	19.02	18.53	3.51	2.59	2.70	-.10	37.29	15.64	21.65	1.063	1.087	1.002	20.73

MONTH = 8 LATITUDE = 30
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	1.05	1.81	-.76	1.62	1.74	-.11	1.53	1.42	.12	.682	-.353	.443	9.03
23.	1.29	1.99	-.71	1.44	1.63	-.19	1.81	1.47	.33	.686	-.174	.597	10.77
24.	1.29	2.16	-.87	1.30	1.52	-.22	1.75	1.63	.12	.657	-.060	.713	12.16
25.	2.32	2.30	.02	1.25	1.48	-.23	2.59	1.96	.63	.530	-.134	.760	11.94
26.	2.25	2.41	-.17	1.38	1.51	-.13	2.45	2.13	.32	.491	-.155	.784	11.90
27.	2.33	2.54	-.20	1.36	1.55	-.18	2.46	2.11	.35	.559	-.062	.793	13.07
28.	2.27	2.67	-.41	1.43	1.57	-.14	2.37	2.08	.28	.629	.056	.811	14.67
29.	2.43	2.83	-.40	1.38	1.58	-.20	2.45	2.10	.35	.683	.169	.835	16.59
30.	2.49	3.00	-.51	1.43	1.64	-.21	2.52	2.13	.38	.724	.250	.848	18.02
31.	2.61	3.18	-.57	1.55	1.74	-.19	2.59	2.17	.42	.760	.312	.854	19.27
32.	2.74	3.38	-.64	1.57	1.85	-.28	2.73	2.25	.48	.784	.358	.861	20.39
33.	3.14	3.60	-.47	1.67	1.99	-.32	2.77	2.34	.43	.800	.383	.860	21.06
34.	2.92	3.84	-.92	1.73	2.14	-.41	2.75	2.39	.36	.830	.440	.866	22.61
35.	3.05	4.11	-1.06	1.70	2.29	-.59	2.81	2.44	.37	.859	.508	.877	24.89
36.	2.94	4.40	-1.46	1.68	2.51	-.82	2.89	2.48	.41	.884	.558	.881	26.81
37.	3.46	4.74	-1.28	1.76	2.84	-1.08	2.96	2.43	.53	.914	.613	.881	29.65
38.	3.71	5.13	-1.42	1.91	3.22	-1.30	3.18	2.38	.80	.930	.670	.885	33.67
39.	3.81	5.34	-1.52	1.84	3.54	-1.70	3.29	2.63	.65	.902	.485	.814	25.68
40.	3.89	6.03	-2.14	1.91	3.75	-1.84	3.59	2.84	.75	.936	.665	.886	33.94
41.	3.95	6.51	-2.57	1.88	3.98	-2.10	3.71	3.05	.65	.943	.707	.902	36.95
42.	4.01	7.02	-3.00	1.89	4.09	-2.20	3.78	3.47	.31	.939	.721	.915	37.91
43.	10.04	7.10	2.94	2.04	3.85	-1.81	18.10	4.38	13.71	.842	.486	.881	26.12
44.	16.06	6.72	9.34	1.81	3.38	-1.57	18.69	4.55	14.14	.789	.422	.890	24.90
45.	15.75	6.92	8.83	1.83	3.20	-1.37	18.22	5.02	13.21	.744	.388	.904	25.28
46.	15.39	7.66	7.74	1.88	3.27	-1.40	16.36	5.77	10.59	.720	.388	.919	26.34
47.	15.31	8.61	6.71	2.21	3.62	-1.40	15.96	6.45	9.50	.731	.414	.924	27.34
48.	15.16	9.59	5.56	2.67	3.87	-1.20	13.92	7.26	6.65	.731	.432	.931	28.58
49.	15.74	10.04	5.70	3.34	3.52	-1.18	16.48	8.13	8.36	.667	.391	.947	30.26
50.	15.75	10.57	5.18	2.14	3.18	-1.04	17.41	9.06	8.35	.592	.340	.959	32.75
51.	15.43	11.00	4.43	2.36	3.16	-.80	19.27	9.56	9.72	.570	.325	.962	33.36
52.	15.08	11.77	3.30	2.30	3.09	-.79	17.97	9.73	8.24	.735	.572	.977	44.12
53.	14.91	12.06	2.84	2.47	3.04	-.57	18.24	9.93	8.31	.765	.623	.980	47.98
54.	14.75	12.33	2.42	2.41	3.00	-.59	16.41	10.87	5.54	.578	.380	.974	39.00
55.	15.02	12.38	2.64	2.59	3.05	-.46	37.29	11.22	26.06	.484	.262	.971	35.85
56.	15.78	12.83	2.95	2.52	2.98	-.45	14.81	13.08	1.73	.032	-.196	.974	32.97
57.	15.72	12.78	2.93	2.68	3.03	-.35	14.70	13.94	.76	-.280	-.474	.978	33.24
58.	17.39	12.61	4.78	2.92	3.14	-.22	15.22	14.55	.67	-.540	-.684	.983	35.62
59.	18.29	13.16	5.14	2.84	3.13	-.29	16.51	14.08	2.43	-.196	-.396	.976	31.52
60.	19.14	12.58	6.56	2.89	3.15	-.25	20.13	13.60	6.53	-.213	-.428	.974	30.95
61.	20.38	12.71	7.68	3.30	3.39	-.09	17.89	13.90	3.99	-.235	-.459	.972	27.78
62.	23.09	12.66	10.43	3.88	3.51	.37	19.70	13.92	5.78	-.242	-.472	.970	26.35
63.	24.27	12.00	12.27	3.75	3.43	.31	26.87	13.22	13.65	-.230	-.469	.968	25.02
64.	23.90	11.63	12.27	4.53	3.73	1.80	25.08	12.28	12.81	-.125	-.342	.975	28.37
65.	8.15	9.76	-1.60	2.98	2.22	.77	8.27	10.98	-2.71	-.471	-.621	.984	33.58
66.	8.28	9.62	-1.34	3.02	1.83	1.19	8.51	10.59	-2.08	-.464	-.594	.988	30.26
67.	8.35	9.47	-1.12	3.29	2.18	1.11	8.90	10.71	-1.80	-.498	-.635	.984	32.34
68.	8.32	9.28	-.95	3.49	2.48	1.01	8.99	10.91	-1.91	-.580	-.721	.983	29.38
69.	8.37	9.07	-.71	3.52	2.90	.62	9.00	10.58	-1.58	-.407	-.622	.968	21.57
70.	8.41	8.90	-.50	4.10	3.38	.71	9.00	10.33	-1.34	-.255	-.556	.959	16.94
71.	8.53	8.78	-.25	4.57	3.92	.65	9.13	10.18	-1.05	-.162	-.525	.925	13.95
72.	8.69	8.70	-.01	4.91	4.32	.60	9.11	9.99	-.88	-.072	-.495	.902	12.31
73.	8.89	8.68	.21	5.06	4.58	.48	8.93	9.79	-.85	.006	-.462	.884	11.43
74.	9.14	8.69	.45	5.25	4.79	.46	9.01	9.79	-.79	.031	-.461	.873	10.85
75.	9.35	8.70	.64	5.45	5.05	.40	9.29	10.10	-.81	-.004	-.507	.866	10.24
76.	9.50	8.68	.83	5.96	5.40	.57	9.83	10.46	-.63	-.055	-.561	.857	9.47
77.	9.27	8.66	.61	6.25	5.83	.42	9.83	10.35	-.52	.019	-.547	.826	8.70
78.	8.39	8.78	-.39	6.95	6.13	.83	8.93	9.61	-.68	.207	-.448	.782	8.48
79.	8.82	9.08	-.26	6.35	6.02	.33	8.25	8.88	-.63	.363	-.306	.776	9.34
80.	9.04	9.49	-.45	5.97	5.84	.13	8.20	8.72	-.52	.434	-.197	.798	10.35
81.	9.86	9.94	-.08	6.18	5.87	.31	8.81	9.07	-.27	.437	-.169	.813	10.68
82.	10.17	10.38	-.21	5.98	5.84	.14	9.35	9.60	-.24	.410	-.165	.832	10.95
83.	10.61	10.77	-.16	5.84	5.80	.04	9.93	10.26	-.32	.356	-.191	.849	11.11
84.	11.05	11.10	-.04	6.02	6.08	-.06	11.03	11.21	-.18	.256	-.249	.851	10.44
85.	11.26	11.33	-.08	6.82	6.77	.05	12.20	12.26	-.06	.157	-.407	.838	9.32
86.	11.60	11.50	.10	7.76	7.65	.11	13.04	13.14	-.10	.104	-.492	.815	8.27
87.	11.99	11.68	.31	8.60	8.26	.34	13.72	13.34	.38	.139	-.498	.790	7.81
88.	11.78	11.99	-.21	8.48	8.47	.01	12.25	12.76	-.50	.260	-.420	.767	8.02
89.	12.28	12.48	-.20	8.69	8.80	-.11	12.26	12.43	-.17	.359	-.348	.750	8.31
90.	12.83	13.13	-.30	9.59	9.57	.02	12.59	12.62	-.03	.417	-.325	.724	8.26

MONTH = 8 LATITUDE = 50

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	.96	1.37	-.42	.79	.82	-.03	.96	.92	.04	.756	.239	.816	16.84
23.	1.46	1.46	.00	1.23	1.14	.09	1.65	1.61	.05	.934	-.361	.683	9.38
24.	1.53	1.52	.00	1.13	1.18	-.05	1.62	1.57	.05	.343	-.416	.711	9.16
25.	1.63	1.58	.05	1.05	1.11	-.06	1.66	1.61	.05	.324	-.370	.759	10.11
26.	1.70	1.64	.06	1.08	1.12	-.04	1.70	1.66	.04	.322	-.356	.770	10.42
27.	1.71	1.70	.02	1.17	1.19	-.02	1.71	1.65	.05	.386	-.324	.749	10.49
28.	1.71	1.77	-.07	1.27	1.27	.00	1.60	1.62	-.02	.473	-.265	.725	10.88
29.	1.74	1.87	-.13	1.28	1.29	-.01	1.67	1.62	.05	.523	-.195	.734	11.70
30.	1.78	1.97	-.19	1.23	1.29	-.06	1.67	1.64	.04	.564	-.113	.757	12.82
31.	1.85	2.08	-.23	1.28	1.33	-.06	1.72	1.62	.10	.624	-.022	.767	14.01
32.	1.86	2.21	-.35	1.33	1.39	-.06	1.67	1.58	.08	.701	.099	.779	15.77
33.	1.93	2.35	-.42	1.31	1.46	-.14	1.67	1.60	.07	.744	.184	.796	17.27
34.	2.28	2.51	-.23	1.46	1.58	-.12	1.94	1.72	.23	.737	.160	.785	16.97
35.	2.57	2.67	-.10	1.59	1.68	-.10	2.00	1.84	.17	.735	.154	.783	17.08
36.	2.62	2.85	-.23	1.58	1.70	-.12	2.14	1.92	.22	.755	.233	.814	18.75
37.	2.87	3.03	-.15	1.55	1.69	-.14	2.15	1.99	.16	.788	.348	.851	21.40
38.	3.14	3.21	-.07	1.60	1.74	-.14	2.25	2.13	.12	.787	.368	.863	22.37
39.	3.35	3.39	-.03	1.74	1.83	-.09	2.58	2.38	.20	.737	.279	.855	20.68
40.	3.46	3.56	-.11	1.78	1.91	-.13	2.84	2.66	.18	.680	.190	.849	19.39
41.	3.65	3.73	-.08	1.92	2.01	-.09	3.10	2.89	.21	.641	.133	.846	18.63
42.	3.76	3.90	-.14	2.00	2.09	-.09	3.23	3.08	.15	.617	.103	.846	18.46
43.	3.98	4.06	-.08	2.02	2.07	-.04	3.49	3.21	.27	.622	.144	.864	19.65
44.	4.12	4.23	-.11	1.84	2.00	-.16	3.34	3.25	.09	.670	.258	.890	22.47
45.	4.33	4.40	-.07	1.94	2.02	-.08	3.48	3.33	.15	.696	.314	.900	24.08
46.	4.41	4.58	-.17	2.03	2.17	-.14	3.64	3.52	.12	.678	.256	.889	22.56
47.	4.63	4.77	-.15	2.35	2.47	-.12	3.94	3.73	.21	.636	.151	.859	19.91
48.	3.73	4.98	-1.26	2.72	2.69	.04	4.14	3.81	.33	.654	.151	.846	19.53
49.	5.07	5.21	-.14	2.34	2.52	-.18	4.06	3.81	.25	.722	.326	.889	23.86
50.	5.24	5.43	-.19	2.01	2.20	-.19	4.25	3.95	.30	.783	.520	.938	31.85
51.	5.43	5.64	-.20	1.84	2.01	-.18	4.60	4.26	.34	.779	.558	.955	35.51
52.	5.57	5.83	-.25	1.85	1.99	-.15	4.98	4.59	.39	.723	.483	.954	33.41
53.	5.68	6.00	-.33	1.93	2.03	-.10	5.29	4.88	.41	.671	.409	.951	31.37
54.	5.83	6.17	-.34	1.88	2.07	-.19	5.53	5.09	.44	.645	.375	.951	30.50
55.	5.94	6.35	-.41	2.03	2.18	-.16	5.71	5.29	.42	.617	.328	.946	28.77
56.	6.90	6.52	.37	2.21	2.37	-.17	5.99	5.53	.46	.569	.241	.935	25.60
57.	6.36	6.70	-.34	2.43	2.58	-.15	6.27	5.78	.50	.526	.163	.925	23.13
58.	6.55	6.88	-.33	2.59	2.73	-.15	6.45	5.93	.52	.522	.145	.920	22.12
59.	6.64	7.08	-.44	2.61	2.83	-.21	6.52	6.04	.48	.541	.166	.919	22.05
60.	6.94	7.30	-.36	2.79	2.93	-.22	6.78	6.17	.60	.559	.180	.918	21.86
61.	6.99	7.53	-.54	2.83	3.06	-.23	6.95	6.34	.61	.562	.184	.917	21.38
62.	7.36	7.77	-.41	2.90	3.13	-.23	7.34	6.56	.77	.557	.183	.918	21.08
63.	7.76	8.02	-.26	2.84	3.09	-.25	7.63	6.86	.77	.541	.182	.926	21.42
64.	8.11	8.24	-.13	2.72	3.05	-.33	7.97	7.31	.65	.472	.115	.930	20.91
65.	8.85	8.43	.42	2.93	3.09	-.16	8.79	7.93	.86	.340	-.029	.930	19.43
66.	8.98	8.55	.43	2.88	3.10	-.22	9.07	8.45	.62	.215	-.149	.934	19.63
67.	9.02	8.63	.39	2.94	3.09	-.15	9.38	8.81	.58	.122	-.231	.937	18.22
68.	8.99	8.68	.32	2.98	3.07	-.09	9.46	9.04	.41	.054	-.287	.941	17.99
69.	9.02	8.69	.32	2.89	3.12	-.23	9.50	9.18	.32	.020	-.321	.940	17.37
70.	9.04	8.71	.33	3.35	3.41	-.06	9.45	9.28	.18	.023	-.346	.930	15.68
71.	9.12	8.73	.39	3.78	3.81	-.03	9.52	9.36	.16	.045	-.365	.914	13.81
72.	9.22	8.77	.45	4.17	4.14	.02	9.44	9.38	.06	.083	-.364	.898	12.56
73.	9.38	8.85	.52	4.41	4.38	.03	9.28	9.37	-.09	.124	-.351	.886	11.79
74.	9.58	8.94	.64	4.63	4.57	.06	9.31	9.52	-.21	.126	-.362	.879	11.10
75.	9.77	9.02	.75	4.88	4.85	.03	9.66	9.96	-.30	.065	-.428	.874	10.43
76.	9.89	9.04	.85	5.48	5.25	.23	10.29	10.52	-.23	-.014	-.511	.867	9.43
77.	9.72	9.04	.68	5.92	5.68	.24	10.48	10.66	-.18	.004	-.530	.846	8.52
78.	9.01	9.11	-.10	6.36	5.90	.46	9.77	10.22	-.45	.124	-.466	.820	8.15
79.	9.31	9.31	-.01	5.94	5.81	.13	9.34	9.77	-.43	.230	-.375	.816	8.48
80.	9.69	9.60	.08	5.85	5.76	.09	9.35	9.71	-.37	.281	-.316	.822	8.74
81.	10.03	9.94	.09	6.14	5.87	.27	9.79	9.95	-.25	.294	-.297	.826	8.77
82.	10.29	10.29	.00	6.99	6.86	.13	10.04	10.27	-.24	.287	-.283	.838	8.96
83.	10.67	10.61	.06	6.90	6.84	.06	10.39	10.75	-.35	.252	-.295	.851	9.07
84.	11.06	10.87	.19	6.07	6.08	-.02	11.29	11.51	-.21	.172	-.366	.854	8.65
85.	11.15	11.04	.11	6.77	6.60	.17	12.20	12.36	-.15	.088	-.456	.847	7.99
86.	11.52	11.11	.41	7.29	7.05	.21	12.82	13.12	-.29	.010	-.532	.842	7.46
87.	11.86	11.10	.76	7.61	7.29	.32	13.52	13.41	.10	-.022	-.562	.839	7.31
88.	11.01	11.09	-.08	7.46	7.41	.05	12.43	13.30	-.87	.005	-.553	.831	7.27
89.	10.91	11.12	-.22	7.96	8.08	-.13	13.42	13.51	-.09	.037	-.568	.801	6.77
90.	10.36	11.29	-.93	9.68	9.57	.10	13.61	13.76	-.14	.138	-.583	.754	5.92

MONTH = 8 LATITUDE = 70

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE ORIG	PRESSURE NEW	PRESSURE DIF	TEMPERATURE ORIG	TEMPERATURE NEW	TEMPERATURE DIF	DENSITY ORIG	DENSITY NEW	DENSITY DIF	CORRELATION COEFFICIENTS RPT	RTD	RPD	DEPTH
22.	1.76	3.26	-1.50	1.14	1.40	-.26	2.04	2.26	-.22	.820	.564	.935	27.03
23.	1.90	3.49	-1.60	1.22	2.12	-.90	2.14	1.82	.33	.905	.576	.860	25.83
24.	1.97	3.86	-1.88	2.18	2.98	-.80	2.06	1.28	.77	.962	.572	.774	31.51
25.	6.59	4.30	2.29	2.17	3.22	-1.05	6.65	1.64	5.01	.946	.520	.769	27.35
26.	6.34	4.72	1.62	2.31	3.14	-.83	6.25	2.87	3.38	.805	.228	.761	16.90
27.	6.29	5.05	1.23	2.59	3.18	-.59	6.22	3.97	2.25	.619	-.012	.778	13.58
28.	6.61	5.31	1.30	2.58	3.12	-.53	6.50	4.73	1.76	.469	-.134	.813	13.02
29.	6.63	5.50	1.14	2.59	3.01	-.42	6.51	5.23	1.28	.360	-.197	.864	13.30
30.	6.63	5.64	.99	2.61	3.00	-.38	6.42	5.54	.88	.300	-.236	.856	13.52
31.	6.77	5.77	1.01	2.87	3.11	-.24	6.43	5.75	.68	.274	-.266	.854	13.32
32.	6.66	5.89	.77	3.07	3.20	-.12	6.26	5.92	.35	.263	-.278	.853	13.38
33.	6.81	6.00	.81	3.04	3.16	-.12	6.36	6.09	.26	.235	-.288	.863	13.71
34.	6.79	6.11	.68	3.03	3.07	-.04	6.40	6.17	.23	.231	-.269	.875	14.48
35.	6.50	6.22	.28	2.93	3.14	-.21	6.04	6.15	-.10	.275	-.233	.871	14.78
36.	6.58	6.35	.23	3.56	3.35	.22	6.31	6.23	.08	.298	-.234	.859	14.42
37.	6.67	6.49	.19	3.31	3.30	.01	6.29	6.26	.02	.320	-.195	.867	15.25
38.	6.84	6.63	.20	3.04	3.07	-.03	6.10	6.21	-.11	.364	-.105	.888	17.25
39.	7.00	6.79	.21	2.96	2.92	.04	6.20	6.23	-.02	.398	-.036	.903	19.04
40.	7.03	6.94	.08	2.83	2.80	.03	6.19	6.25	-.06	.437	.038	.915	21.00
41.	7.14	7.11	.03	2.69	2.66	.03	6.16	6.30	-.13	.474	.113	.928	23.30
42.	7.36	7.27	.10	2.53	2.50	.03	6.42	6.44	-.02	.484	.158	.941	25.79
43.	7.47	7.42	.05	2.34	2.34	-.00	6.51	6.56	-.05	.503	.213	.951	28.78
44.	7.61	7.57	.04	2.24	2.22	.02	6.55	6.64	-.09	.536	.278	.959	32.01
45.	7.69	7.72	-.03	2.15	2.10	.05	6.72	6.75	-.03	.571	.342	.967	35.92
46.	7.71	7.87	-.15	1.91	1.93	-.02	6.78	6.87	-.08	.609	.417	.975	41.40
47.	7.83	8.01	-.18	1.78	1.78	-.00	7.03	7.05	-.02	.616	.447	.980	46.06
48.	7.95	8.14	-.19	1.68	1.68	.00	7.29	7.29	-.00	.579	.416	.982	48.23
49.	8.11	8.25	-.14	1.57	1.58	-.01	7.57	7.51	.07	.544	.387	.984	50.62
50.	8.10	8.35	-.25	1.47	1.51	-.04	7.69	7.66	.02	.528	.378	.986	53.00
51.	8.29	8.45	-.21	1.49	1.52	-.02	7.87	7.74	.13	.535	.388	.986	53.69
52.	8.30	8.55	-.25	1.55	1.55	.01	7.80	7.81	-.01	.549	.403	.986	54.67
53	8.50	8.65	-.15	1.52	1.54	-.02	8.09	7.97	.13	.518	.369	.986	54.09
54.	8.48	8.75	-.26	1.47	1.54	-.07	7.96	8.12	-.16	.479	.326	.984	52.01
55.	8.65	8.84	-.20	1.57	1.64	-.08	8.06	8.18	-.12	.491	.319	.984	49.37
56.	8.92	8.95	-.02	1.79	1.80	-.01	8.42	8.23	.19	.484	.306	.981	45.19
57.	9.07	9.06	.01	1.86	1.90	-.04	8.54	8.31	.23	.484	.300	.980	43.14
58.	9.03	9.18	-.15	1.89	1.97	-.08	8.56	8.40	.17	.487	.298	.979	41.68
59.	9.25	9.30	-.05	2.07	2.09	-.02	8.71	8.53	.18	.466	.263	.976	38.95
60.	9.40	9.42	-.02	2.16	2.09	.08	8.91	8.74	.17	.426	.220	.976	38.41
61.	9.84	9.53	.31	1.78	1.96	-.18	9.19	9.03	.16	.350	.152	.979	39.33
62.	10.16	9.60	.57	1.97	1.98	-.01	9.52	9.39	.13	.286	.090	.979	37.00
63.	10.67	9.63	1.04	2.09	2.10	-.01	9.83	9.81	.02	.022	-.193	.977	33.85
64.	11.27	9.64	1.63	2.22	2.21	.01	10.15	9.81	.34	.036	-.190	.974	31.67
65.	9.54	9.69	-.15	2.40	2.30	.10	8.72	9.29	-.58	.247	.051	.971	31.51
66.	9.69	9.80	-.11	2.35	2.31	.04	8.95	9.11	-.16	.409	.187	.973	32.73
67.	9.82	9.93	-.11	2.28	2.26	.02	9.19	9.30	-.10	.366	.170	.975	32.76
68.	9.93	10.06	-.13	2.26	2.26	-.00	9.36	9.47	-.12	.363	.147	.975	32.14
69.	10.53	10.18	.36	2.35	2.30	.05	9.58	9.66	-.09	.330	.109	.974	30.84
70.	10.16	10.29	-.12	2.35	2.34	.00	9.75	9.86	-.11	.292	.067	.974	29.67
71.	10.36	10.39	-.03	2.43	2.43	-.00	9.97	10.03	-.06	.262	.029	.972	27.88
72.	10.50	10.49	.00	2.60	2.57	.04	10.08	10.18	-.10	.243	-.001	.970	25.92
73.	10.61	10.59	.02	2.71	2.68	.03	10.27	10.36	-.09	.212	-.042	.968	24.16
74.	10.72	10.67	.05	2.78	2.82	-.04	10.54	10.63	-.09	.147	-.119	.965	22.28
75.	10.81	10.72	.08	3.09	3.10	-.01	10.91	11.00	-.09	.055	-.228	.960	19.66
76.	10.83	10.73	.10	3.53	3.49	.04	11.35	11.39	-.05	-.034	-.338	.952	16.92
77.	10.86	10.68	.18	3.92	3.75	.17	11.65	11.68	-.03	-.104	-.416	.944	15.33
78.	10.87	10.60	.27	3.78	3.79	-.01	11.69	11.70	-.01	-.126	-.438	.947	14.61
79.	10.45	10.52	-.07	3.84	3.88	-.05	11.29	11.53	-.24	-.088	-.417	.942	13.69
80.	10.39	10.46	-.07	4.24	4.18	.05	11.40	11.50	-.11	-.063	-.421	.932	12.24
81.	10.38	10.39	-.01	4.56	4.54	.02	11.57	11.67	-.09	-.079	-.460	.922	10.96
82.	10.33	10.30	.02	4.90	4.86	.05	11.85	11.82	.02	-.100	-.498	.913	9.92
83.	10.34	10.19	.15	5.16	5.14	.02	11.78	11.91	-.13	-.112	-.527	.903	9.05
84.	10.32	10.05	.26	5.47	5.46	.01	11.96	11.97	-.01	-.113	-.551	.891	8.19
85.	10.15	9.92	.23	5.94	5.83	.11	11.77	11.96	-.18	-.091	-.563	.874	7.41
86.	10.25	9.79	.45	6.25	5.99	.27	11.75	11.98	-.23	-.100	-.581	.868	7.12
87.	10.20	9.61	.59	5.93	5.89	.05	11.84	12.11	-.27	-.174	-.624	.878	7.18
88.	9.34	9.27	.07	5.99	5.98	.01	11.94	12.53	-.59	-.318	-.713	.892	7.14
89.	8.69	8.72	-.03	6.63	7.01	-.38	13.18	13.30	-.12	-.424	-.805	.879	5.90
90.	7.42	8.07	-.65	9.38	9.27	.11	13.78	13.94	-.16	-.289	-.832	.771	3.99

MONTH = 8 LATITUDE = 90

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE ORIG	PRESSURE NEW	PRESSURE DIF	TEMPERATURE ORIG	TEMPERATURE NEW	TEMPERATURE DIF	DENSITY ORIG	DENSITY NEW	DENSITY DIF
22.	1.96	3.61	-1.65	1.24	1.52	-.29	2.29	2.59	-.30
23.	2.02	3.85	-1.83	1.21	2.35	-1.14	2.28	2.04	.24
24.	2.10	4.25	-2.15	2.43	3.47	-1.04	2.18	1.29	.90
25.	7.55	4.74	2.81	2.43	3.78	-1.34	7.62	1.49	6.13
26.	7.25	5.22	2.03	2.60	3.62	-1.02	7.15	2.72	4.43
27.	7.19	5.61	1.58	2.91	3.65	-.74	7.11	4.07	3.04
28.	7.57	5.92	1.65	2.89	3.58	-.68	7.44	5.06	2.39
29.	7.59	6.14	1.45	2.89	3.45	-.55	7.45	5.69	1.76
30.	7.59	6.32	1.28	2.93	3.44	-.50	7.35	6.09	1.26
31.	7.75	6.47	1.28	3.23	3.57	-.34	7.36	6.38	.98
32.	7.62	6.61	1.01	3.46	3.67	-.21	7.17	6.60	.56
33.	7.79	6.74	1.05	3.43	3.61	-.18	7.28	6.80	.48
34.	7.60	6.85	.75	3.36	3.47	-.11	7.16	6.86	.31
35.	7.35	6.98	.37	3.25	3.53	-.28	6.88	6.82	.06
36.	7.25	7.13	.12	3.94	3.75	.19	6.98	6.84	.14
37.	7.32	7.30	.02	3.64	3.68	-.04	6.95	6.82	.12
38.	7.47	7.48	-.01	3.32	3.42	-.09	6.72	6.78	-.06
39.	7.82	7.66	.16	3.26	3.25	.00	6.99	6.86	.12
40.	7.85	7.84	.01	3.09	3.10	-.01	6.95	6.95	.01
41.	8.12	8.02	.09	2.91	2.91	.00	7.03	7.06	-.03
42.	8.37	8.19	.18	2.69	2.68	.01	7.32	7.26	.06
43.	8.46	8.35	.11	2.43	2.46	-.04	7.40	7.40	-.00
44.	8.61	8.50	.10	2.32	2.31	.01	7.47	7.49	-.03
45.	8.60	8.65	-.05	2.19	2.15	.05	7.58	7.62	-.04
46.	8.58	8.79	-.25	1.88	1.90	-.02	7.55	7.83	-.28
47.	8.65	8.91	-.26	1.59	1.59	.00	7.80	8.19	-.39
48.	8.96	8.98	-.02	1.16	1.32	-.16	8.15	8.56	-.40
49.	8.96	9.04	-.08	1.22	1.25	-.03	8.50	8.68	-.17
50.	8.91	9.10	-.19	1.23	1.30	-.07	8.61	8.63	-.03
51.	9.04	9.17	-.13	1.35	1.38	-.04	8.78	8.59	.19
52.	9.09	9.25	-.16	1.43	1.44	-.01	8.63	8.70	-.08
53.	9.31	9.32	-.01	1.36	1.42	-.07	8.92	8.84	.08
54.	9.27	9.39	-.13	1.31	1.41	-.10	8.72	8.87	-.15
55.	9.46	9.48	-.02	1.41	1.52	-.11	8.81	8.85	-.04
56.	9.63	9.58	.05	1.68	1.68	-.00	9.22	8.86	.36
57.	9.91	9.69	.22	1.69	1.75	-.06	9.31	8.91	.39
58.	9.82	9.80	.02	1.67	1.80	-.13	9.31	9.02	.28
59.	10.08	9.92	.17	1.93	1.95	-.02	9.48	9.21	.27
60.	10.23	10.01	.22	2.04	1.90	.14	9.70	9.59	.11
61.	10.80	10.06	.74	1.40	1.67	-.27	10.02	10.05	-.03
62.	11.18	10.06	1.12	1.69	1.70	-.01	10.40	10.37	.03
63.	11.77	10.01	1.76	1.91	1.91	.00	10.77	10.72	.05
64.	12.44	9.95	2.49	2.11	2.06	.05	11.08	10.50	.58
65.	9.76	9.96	-.20	2.20	2.10	.10	9.69	9.59	-.89
66.	9.92	10.09	-.17	2.14	2.06	.09	9.91	9.19	-.27
67.	10.08	10.24	-.17	2.02	1.98	.04	9.13	9.35	-.22
68.	10.23	10.40	-.18	1.96	1.98	-.02	9.32	9.53	-.21
69.	10.53	10.56	-.03	2.14	2.00	14	9.60	9.74	-.14
70.	10.51	10.71	-.20	1.90	1.90	.00	9.85	9.97	-.13
71.	10.75	10.85	-.10	1.76	1.79	-.03	10.12	10.18	-.07
72.	10.89	10.97	-.08	1.80	1.78	.02	10.28	10.38	-.10
73.	10.99	11.08	-.09	1.81	1.79	.02	10.57	10.63	-.06
74.	11.07	11.16	-.09	1.77	1.88	-.11	10.92	10.95	-.04
75.	11.13	11.20	-.07	2.20	2.16	.02	11.29	11.31	-.01
76.	11.13	11.20	-.07	2.57	2.57	-.01	11.67	11.67	.01
77.	11.21	11.13	.08	2.96	2.71	.25	12.02	12.00	.01
78.	11.43	11.01	.42	2.35	2.61	-.26	12.26	12.14	.12
79.	10.80	10.85	-.05	2.80	2.86	-.06	11.87	12.05	-.18
80.	10.61	10.70	-.09	3.54	3.43	.10	12.00	12.04	-.04
81.	10.49	10.53	-.04	3.90	3.95	-.05	12.13	12.19	-.06
82.	10.34	10.32	.02	4.49	4.43	.06	12.39	12.31	.08
83.	10.34	10.07	.27	4.89	4.86	.03	12.21	12.30	-.09
84.	10.06	9.80	.26	5.26	5.21	.05	12.17	12.15	.02
85.	9.80	9.54	.26	5.63	5.52	.11	11.63	11.85	-.22
86.	9.78	9.32	.46	5.87	5.55	.32	11.36	11.60	-.23
87.	9.58	9.05	.54	5.25	5.32	-.06	11.22	11.66	-.44
88.	8.72	8.58	.13	5.41	5.44	-.03	11.77	12.10	-.33
89.	7.81	7.83	-.03	6.12	6.66	-.54	13.10	12.90	.20
90.	6.13	6.78	-.65	8.29	9.14	-.84	15.84	16.06	-.21

CORRELATION COEFFICIENTS

RPT	RTD	RPD	DEPTH
.780	.513	.932	26.54
.898	.533	.856	25.31
.964	.488	.701	32.52
.964	.533	.738	33.56
.871	.340	.758	20.98
.690	.054	.760	15.20
.525	-.093	.709	14.05
.407	-.167	.833	14.22
.337	-.215	.847	14.34
.301	-.255	.845	14.06
.279	-.277	.846	14.04
.250	-.283	.858	14.56
.252	-.254	.872	15.50
.296	-.212	.870	16.02
.338	-.196	.867	16.67
.378	-.135	.866	16.75
.423	-.038	.890	19.01
.444	.022	.905	20.84
.471	.085	.919	22.80
.493	.148	.933	25.66
.493	.187	.947	28.68
.512	.245	.958	32.58
.548	.314	.966	36.73
.575	.370	.973	41.62
.585	.414	.980	48.16
.523	.375	.986	55.91
.391	.257	.990	62.81
.356	.227	.991	66.02
.421	.294	.991	66.10
.481	.352	.990	63.74
.446	.308	.989	59.77
.405	.266	.989	59.20
.439	.306	.990	60.56
.478	.340	.989	57.36
.408	.308	.986	52.19
.514	.363	.986	50.80
.506	.351	.985	48.04
.449	.272	.982	43.71
.311	.127	.982	42.02
.090	-.076	.986	44.95
-.090	-.260	.987	43.55
-.287	-.447	.985	39.37
-.174	-.360	.981	34.80
.289	.074	.978	34.43
.520	.346	.982	38.95
.528	.367	.984	40.28
.518	.359	.984	39.65
.487	.322	.984	37.83
.462	.305	.986	38.84
.441	.294	.987	40.71
.403	.254	.988	40.16
.326	.171	.987	38.67
.195	.026	.986	35.37
.050	-.144	.981	29.82
-.072	-.289	.976	25.20
-.212	-.423	.975	24.38
-.338	-.522	.979	26.08
-.310	-.517	.974	23.23
-.255	-.512	.961	18.88
-.267	-.554	.950	15.32
-.278	-.593	.938	13.66
-.270	-.616	.925	10.53
-.239	-.622	.909	8.84
-.178	-.610	.889	7.51
-.162	-.609	.881	7.22
-.268	-.664	.898	7.44
-.461	-.777	.917	7.56
-.582	-.870	.908	6.05
-.545	-.914	.898	5.70

MONTH = 9 LATITUDE = 10

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	.62	1.71	-1.09	.31	.61	-.30	.67	1.24	-.57	.843	.671	.964	32.48
23.	.75	1.86	-1.11	1.28	1.49	-.20	1.69	.87	.82	.889	.191	.620	17.16
24.	3.20	2.04	1.16	1.23	1.61	-.37	3.55	1.65	1.90	.616	-.210	.640	10.27
25.	2.37	2.15	.22	1.26	1.42	-.16	2.65	2.27	.39	.247	-.395	.703	10.02
26.	2.33	2.19	.14	1.21	1.32	-.11	2.58	2.35	.23	.190	-.395	.832	10.94
27.	2.32	2.23	.08	1.21	1.33	-.12	2.52	2.36	.17	.201	-.374	.833	11.2*
28.	2.27	2.28	-.01	1.39	1.40	-.01	2.48	2.33	.15	.272	-.334	.816	11.27
29.	2.29	2.35	-.05	1.35	1.44	-.09	2.34	2.30	.04	.335	-.248	.809	11.62
30.	2.33	2.42	-.09	1.42	1.46	-.04	2.48	2.34	.13	.354	-.259	.812	12.00
31.	2.36	2.50	-.13	1.43	1.52	-.09	2.49	2.44	.05	.343	-.272	.811	11.98
32.	2.49	2.57	-.08	1.55	1.58	-.02	2.72	2.53	.19	.334	-.284	.809	11.96
33.	2.54	2.65	-.11	1.53	1.61	-.08	2.63	2.56	.07	.359	-.256	.818	12.35
34.	2.60	2.73	-.14	1.58	1.62	-.03	2.71	2.64	.07	.356	-.245	.819	12.76
35.	3.05	2.81	.24	1.54	1.60	-.06	2.94	2.80	.14	.291	-.281	.836	13.07
36.	2.99	2.87	.12	1.56	1.60	-.04	2.99	2.91	.08	.252	-.301	.847	13.34
37.	3.09	2.93	.17	1.61	1.67	-.06	2.98	2.96	.02	.262	-.304	.846	13.25
38.	3.19	2.99	.20	1.83	1.75	.08	3.03	3.05	-.02	.259	-.322	.831	13.01
39.	3.27	3.05	.22	1.73	1.80	-.06	3.17	3.13	.04	.249	-.332	.831	13.07
40.	3.08	3.11	-.03	1.92	1.87	.06	3.09	3.16	-.07	.276	-.319	.823	13.10
41.	3.19	3.18	.01	1.94	1.92	.02	3.18	3.22	-.03	.284	-.316	.820	13.16
42.	3.26	3.25	.01	1.93	1.93	.00	3.31	3.33	-.02	.252	-.333	.829	13.36
43.	3.25	3.31	-.06	1.96	1.92	.04	3.44	3.41	.03	.235	-.335	.837	13.68
44.	3.32	3.37	-.05	1.88	1.92	-.04	3.40	3.43	-.03	.254	-.317	.841	14.15
45.	3.29	3.43	-.14	1.97	1.94	.03	3.45	3.49	-.03	.256	-.306	.842	14.39
46.	3.53	3.49	.03	1.95	2.00	-.05	3.66	3.59	.07	.236	-.326	.841	14.17
47.	3.56	3.56	-.00	2.10	2.08	.02	3.64	3.61	.03	.267	-.313	.832	14.04
48.	3.44	3.64	-.20	2.14	2.11	.03	3.56	3.67	-.01	.323	-.261	.820	13.47
49.	3.74	3.73	.01	2.00	2.04	-.04	3.59	3.67	.02	.369	-.208	.844	15.40
50.	3.79	3.82	-.03	1.97	2.05	-.09	3.64	3.61	.03	.369	-.179	.848	15.98
51.	3.85	3.92	-.07	2.21	2.12	.09	3.68	3.65	.03	.393	-.169	.845	15.98
52.	3.93	4.02	-.09	2.02	2.07	-.05	3.73	3.70	.04	.408	-.116	.859	16.68
53.	4.00	4.13	-.13	1.95	1.95	.00	3.81	3.77	.03	.416	-.068	.882	16.34
54.	4.11	4.23	-.11	1.78	1.87	-.08	3.94	3.87	.07	.403	-.043	.887	15.45
55.	4.12	4.32	-.21	1.85	1.87	-.02	4.03	3.94	.09	.416	-.025	.902	15.96
56.	4.23	4.42	-.19	1.86	1.92	-.06	4.07	4.00	.07	.429	-.005	.901	15.87
57.	4.27	4.54	-.27	1.94	1.99	-.05	4.19	4.04	.15	.456	.018	.898	15.67
58.	4.41	4.66	-.25	2.02	2.09	-.07	4.18	4.05	.13	.499	.058	.894	15.58
59.	4.49	4.81	-.32	2.12	2.25	-.13	4.22	4.10	.12	.527	.071	.885	15.95
60.	4.84	4.98	-.14	2.39	2.48	-.09	4.48	4.24	.24	.535	.032	.867	17.5*
61.	5.06	5.16	-.10	2.60	2.73	-.13	4.61	4.42	.18	.515	-.016	.848	16.13
62.	5.53	5.36	.17	2.84	2.95	-.11	4.94	4.68	.26	.491	-.069	.835	15.06
63.	5.99	5.56	.43	2.99	3.11	-.12	5.23	4.94	.29	.467	-.104	.831	14.4*
64.	6.27	5.76	.51	3.12	3.15	-.02	5.29	5.15	.14	.456	-.107	.838	14.51
65.	5.93	5.97	-.03	2.97	3.13	-.16	5.50	5.34	.16	.482	-.081	.852	14.88
66.	6.12	6.18	-.06	3.18	3.30	-.13	5.68	5.56	.04	.445	-.069	.847	14.32
67.	6.47	6.40	.07	3.51	3.61	-.01	6.01	5.86	.15	.426	-.152	.838	13.24
68.	6.67	6.63	.04	3.77	3.81	-.04	6.27	6.17	.10	.404	-.185	.825	12.62
69.	6.91	6.86	.05	3.87	4.00	-.13	6.52	6.50	.02	.386	-.215	.822	12.16
70.	7.15	7.09	.07	4.30	4.30	-.00	7.00	6.94	.06	.338	-.275	.812	11.3*
71.	7.33	7.30	.03	4.53	4.55	-.03	7.50	7.43	.07	.262	-.335	.810	10.68
72.	7.59	7.48	.11	4.60	4.59	.01	7.94	7.89	.06	.216	-.378	.823	10.50
73.	7.73	7.61	.13	4.48	4.57	-.09	8.31	8.33	-.02	.134	-.426	.840	10.48
74.	7.85	7.68	.17	4.67	4.69	-.02	8.82	8.72	.10	.065	-.478	.861	10.09
75.	7.69	7.74	-.15	4.96	4.92	.04	8.89	8.83	.06	.079	-.488	.852	9.60
76.	7.94	7.84	.10	5.17	5.12	.05	8.60	8.59	.01	.174	-.437	.809	9.38
77.	8.19	8.06	.13	5.30	5.37	-.07	8.07	8.21	-.14	.306	-.355	.782	9.41
78.	8.50	8.39	.11	5.86	5.57	.29	7.86	7.92	-.06	.413	-.265	.768	9.8*
79.	8.94	8.80	.14	5.44	5.42	.01	7.65	7.85	-.20	.474	-.160	.794	10.84
80.	8.17	9.23	-1.05	5.11	5.23	-.12	9.05	8.18	-.13	.473	-.106	.826	11.72
81.	9.78	9.63	.16	5.25	5.34	-.09	9.02	8.91	.12	.407	-.159	.847	11.58
82.	10.03	9.97	.06	5.58	5.51	.06	9.82	9.64	.18	.336	-.225	.843	11.16
83.	10.36	10.27	.09	5.48	5.64	-.15	10.20	10.15	.05	.295	-.257	.845	11.11
84.	10.69	10.57	.12	5.90	5.93	-.03	10.60	10.42	.18	.305	-.259	.841	10.91
85.	10.99	10.94	.06	6.37	6.56	-.19	10.40	10.46	-.06	.371	-.248	.813	10.46
86.	11.40	11.43	-.03	7.56	7.46	.10	10.49	10.53	-.05	.440	-.229	.772	9.95
87.	12.00	12.05	-.05	8.30	8.12	.19	10.81	10.81	-.01	.481	-.214	.755	8.87
88.	12.72	12.75	-.03	8.26	8.41	-.15	11.20	11.24	-.04	.498	-.194	.761	10.16
89.	13.50	13.51	-.01	8.78	9.13	-.36	11.83	11.81	.02	.512	-.182	.748	10.0*
90	14.53	14.41	.11	10.67	10.68	-.01	12.43	12.42	.01	.544	-.228	.692	9.37

MONTH = 9 LATITUDE = 30
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RRD	DEPTH
22.	1.16	1.62	-.45	1.64	1.70	-.06	1.68	1.62	.06	.521	-.529	.450	7.04
23.	1.56	1.73	-.18	1.59	1.67	-.07	2.13	1.89	.24	.385	-.537	.581	7.22
24.	1.66	1.83	-.17	1.58	1.62	-.03	1.95	1.96	-.01	.354	-.492	.640	7.83
25.	1.94	1.91	.03	1.49	1.54	-.05	2.12	2.02	.10	.329	-.451	.695	8.62
26.	1.93	1.98	-.05	1.44	1.47	-.03	2.11	2.07	.05	.314	-.411	.737	9.35
27.	2.06	2.06	.00	1.39	1.45	-.06	2.10	2.05	.05	.360	-.348	.750	10.04
28.	2.02	2.15	-.13	1.48	1.51	-.03	2.04	2.00	.04	.445	-.278	.737	10.58
29.	2.16	2.27	-.11	1.58	1.63	-.05	2.00	1.93	.06	.553	-.194	.710	11.21
30.	2.13	2.42	-.29	1.70	1.73	-.03	1.88	1.86	.02	.643	-.094	.702	12.34
31.	2.32	2.59	-.26	1.69	1.79	-.10	1.96	1.91	.07	.675	-.024	.722	13.35
32.	2.51	2.77	-.26	1.77	1.87	-.09	2.19	2.02	.17	.686	.017	.739	14.04
33.	2.70	2.96	-.27	1.85	1.95	-.10	2.19	2.10	.08	.706	.068	.754	14.90
34.	2.85	3.16	-.31	1.89	2.01	-.13	2.42	2.27	.15	.700	.089	.774	15.40
35.	3.09	3.36	-.27	1.94	2.05	-.11	2.72	2.52	.20	.664	.071	.793	15.45
36.	3.24	3.55	-.31	1.98	2.04	-.12	3.02	2.74	.28	.639	.083	.819	16.08
37.	3.52	3.73	-.21	1.86	2.01	-.15	3.09	2.87	.22	.647	.141	.846	17.54
38.	3.72	3.91	-.19	1.88	1.99	-.11	3.21	2.99	.23	.665	.204	.867	19.09
39.	3.81	4.09	-.29	1.83	1.95	-.12	3.36	3.14	.22	.669	.251	.887	20.76
40.	3.90	4.27	-.37	1.77	1.93	-.16	3.60	3.30	.30	.671	.283	.901	22.20
41.	4.08	4.44	-.37	1.85	1.99	-.14	3.69	3.43	.26	.674	.293	.904	22.67
42.	4.20	4.62	-.42	1.95	2.07	-.12	3.90	3.64	.26	.648	.254	.901	23.11
43.	4.52	4.80	-.28	1.97	2.07	-.10	4.32	3.84	.48	.634	.253	.909	22.81
44.	4.65	4.97	-.32	1.92	2.02	-.19	4.13	3.89	.24	.682	.354	.925	25.85
45.	4.76	5.16	-.40	1.91	2.03	-.13	4.30	3.93	.37	.728	.437	.935	28.67
46.	4.82	5.36	-.54	1.94	2.15	-.21	4.35	4.01	.34	.740	.464	.934	29.23
47.	4.95	5.58	-.63	2.20	2.38	-.17	4.48	4.05	.42	.766	.468	.926	28.55
48.	4.47	5.82	-1.36	2.40	2.53	-.13	4.59	4.09	.50	.800	.521	.929	30.10
49.	5.39	6.08	-.70	2.20	2.47	-.27	4.75	4.22	.53	.842	.629	.940	35.96
50.	5.53	6.32	-.79	2.02	2.60	-.57	4.87	5.05	-.18	.645	.293	.920	25.17
51.	6.46	6.48	-.02	2.90	2.98	-.08	8.19	6.32	1.88	.294	-.180	.892	17.81
52.	6.45	6.56	-.12	2.74	3.25	-.51	7.68	6.93	.75	.133	-.344	.885	16.86
53.	6.39	6.63	-.23	3.28	3.28	.01	8.33	6.84	1.49	.173	-.302	.882	15.97
54.	6.43	6.74	-.31	2.53	2.94	-.41	6.74	6.25	.49	.377	-.063	.901	19.08
55.	6.44	6.91	-.47	2.31	2.61	-.30	6.43	5.82	.61	.574	.233	.930	24.80
56.	7.04	7.11	-.07	2.33	2.57	-.24	6.80	5.91	.89	.609	.298	.939	26.45
57.	6.84	7.31	-.47	2.38	2.63	-.26	6.92	6.22	.70	.563	.239	.937	25.27
58.	7.14	7.49	-.35	2.52	2.75	-.23	7.45	6.74	.72	.445	.086	.931	22.60
59.	7.26	7.65	-.39	2.61	2.89	-.28	8.43	7.06	1.37	.396	.009	.926	21.19
60.	7.52	7.82	-.30	2.75	3.18	-.43	7.51	7.05	.46	.434	.031	.914	20.00
61.	7.88	8.02	-.14	3.41	3.58	-.17	8.43	7.24	1.19	.430	-.017	.895	17.88
62.	8.18	8.24	-.05	3.39	3.77	-.38	8.44	7.53	.90	.407	-.055	.889	17.02
63.	8.58	8.45	.14	3.49	3.96	-.47	8.74	7.92	.82	.364	-.112	.885	16.08
64.	9.43	8.63	.79	4.37	3.92	.16	9.60	8.35	1.25	.298	-.161	.894	16.09
65.	9.20	8.78	.42	2.72	3.33	-.61	9.15	8.50	.64	.274	-.110	.926	18.76
66.	9.32	8.90	.42	2.81	3.06	-.25	9.44	8.75	.70	.222	-.124	.940	20.07
67.	9.39	8.98	.41	3.12	3.28	-.15	9.78	9.16	.62	.126	-.234	.935	18.36
68.	9.33	9.03	.31	3.36	3.35	.01	9.98	9.49	.49	.045	-.311	.936	17.66
69.	9.36	9.03	.33	3.00	3.47	-.47	10.06	9.71	.34	-.011	-.367	.934	16.86
70.	9.39	9.03	.36	4.06	4.01	.05	10.19	9.91	.28	-.009	-.412	.915	14.37
71.	9.44	9.03	.41	4.54	4.60	-.06	10.26	10.07	.19	.017	-.442	.890	12.36
72.	9.52	9.05	.47	4.97	4.96	.02	10.24	10.14	.10	.041	-.462	.873	11.40
73.	9.64	9.09	.54	5.21	5.18	.03	10.13	10.21	-.07	.056	-.467	.862	10.81
74.	9.80	9.13	.67	5.36	5.29	.07	10.26	10.40	-.13	.034	-.479	.861	10.61
75.	9.77	9.13	.64	5.47	5.43	.03	10.50	10.75	-.25	-.026	-.529	.863	10.14
76.	9.83	9.08	.75	5.47	5.70	-.17	10.93	11.12	-.19	-.084	-.581	.860	9.55
77.	9.65	9.01	.65	6.23	6.05	.18	10.96	11.20	-.25	-.072	-.598	.843	8.87
78.	9.12	8.98	.15	6.71	6.24	.46	11.55	10.86	-.31	.015	-.563	.818	8.46
79.	9.09	9.05	.03	6.26	6.13	.13	9.93	10.27	-.35	.126	-.486	.806	8.67
80.	9.06	9.24	-.18	6.15	6.21	-.06	9.41	9.93	-.52	.220	-.421	.792	8.84
81.	9.74	9.50	.24	7.03	6.53	.48	9.92	10.08	-.16	.252	-.410	.779	8.63
82.	9.60	9.78	-.18	6.58	6.50	.08	10.15	10.33	-.18	.245	-.397	.782	8.86
83.	9.92	10.05	-.14	6.37	6.34	.03	10.30	10.55	-.24	.235	-.377	.812	9.26
84.	10.23	10.31	-.07	6.45	6.50	-.05	10.80	10.95	-.15	.214	-.392	.815	9.17
85.	10.45	10.55	-.10	7.02	6.99	.03	11.39	11.47	-.07	.196	-.431	.801	8.65
86.	10.83	10.80	.03	7.71	7.65	.06	11.89	12.04	-.14	.182	-.472	.781	8.07
87.	11.17	11.07	.10	8.36	8.18	.18	12.64	12.33	.32	.207	-.478	.761	7.77
88.	11.32	11.45	-.13	8.51	8.64	-.14	12.81	12.15	-.34	.293	-.435	.733	7.78
89.	11.95	11.99	-.04	9.40	9.62	-.22	12.09	12.27	-.18	.372	-.420	.686	7.56
90.	12.54	12.74	-.21	11.33	11.31	.02	12.91	12.93	-.02	.427	-.454	.612	7.04

MONTH = 9 LATITUDE = 50
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	1.25	1.56	-.31	.48	.90	-.02	1.67	1.64	.03	.149	-.361	.842	11.47
23.	1.51	1.60	-.08	1.10	1.09	.01	1.61	1.60	.02	.344	-.339	.768	10.21
24.	1.58	1.66	-.08	1.17	1.20	-.03	1.66	1.63	.02	.395	-.341	.736	9.86
25.	1.71	1.74	-.02	1.23	1.26	-.04	1.80	1.78	.10	.303	-.343	.730	9.80
26.	1.72	1.82	-.10	1.30	1.31	-.01	1.74	1.71	.03	.437	-.301	.726	10.20
27.	1.80	1.91	-.12	1.26	1.34	-.06	1.77	1.67	.10	.519	-.206	.739	11.17
28.	1.66	2.03	-.17	1.33	1.39	-.06	1.61	1.59	.02	.623	-.077	.782	12.50
29.	1.96	2.17	-.21	1.40	1.44	-.04	1.62	1.53	.09	.708	.063	.749	14.40
30.	2.05	2.33	-.27	1.37	1.47	-.10	1.58	1.52	.06	.767	.204	.785	16.86
31.	2.17	2.50	-.33	1.44	1.54	-.10	1.69	1.53	.16	.815	.329	.811	19.20
32.	2.30	2.69	-.39	1.53	1.65	-.12	1.63	1.54	.09	.855	.434	.837	21.94
33.	2.45	2.90	-.46	1.61	1.76	-.15	1.78	1.65	.13	.861	.448	.861	22.76
34.	2.78	3.12	-.34	1.70	1.90	-.19	2.15	1.84	.30	.838	.392	.829	21.44
35.	3.07	3.35	-.29	1.90	2.08	-.18	2.21	2.03	.18	.820	.331	.812	20.24
36.	3.33	3.60	-.27	2.05	2.22	-.16	2.57	2.25	.32	.801	.283	.807	19.54
37.	3.61	3.84	-.23	2.09	2.30	-.20	2.72	2.44	.28	.736	.317	.824	20.20
38.	3.85	4.10	-.25	2.16	2.38	-.22	2.85	2.61	.24	.809	.346	.858	21.82
39.	4.23	4.36	-.13	2.35	2.50	-.15	3.13	2.84	.30	.790	.334	.842	21.16
40.	4.25	4.63	-.38	2.37	2.59	-.22	3.35	3.07	.28	.770	.332	.850	21.48
41.	4.49	4.90	-.41	2.48	2.68	-.19	3.62	3.26	.33	.779	.345	.847	22.06
42.	4.81	5.17	-.36	2.56	2.72	-.16	3.79	3.56	.23	.763	.344	.869	22.46
43.	5.23	5.44	-.21	2.49	2.65	-.16	4.38	3.84	.54	.766	.387	.883	24.30
44.	5.48	5.70	-.23	2.33	2.56	-.23	4.17	3.94	.23	.809	.523	.924	30.42
45.	5.78	5.98	-.20	2.42	2.55	-.13	4.33	4.05	.28	.848	.623	.943	34.74
46.	5.99	6.25	-.27	2.40	2.60	-.20	4.60	4.29	.31	.845	.626	.946	35.28
47.	6.22	6.54	-.32	2.57	2.72	-.15	4.86	4.54	.32	.858	.595	.942	34.88
48.	6.98	6.83	-.84	2.71	2.80	-.09	5.15	4.82	.33	.813	.577	.942	33.36
49.	6.88	7.11	-.23	2.46	2.68	-.22	5.40	5.17	.23	.814	.601	.953	34.08
50.	7.14	7.37	-.24	2.26	2.49	-.23	5.78	5.53	.17	.816	.633	.966	40.64
51.	7.43	7.62	-.20	2.12	2.35	-.24	6.04	5.68	.16	.811	.651	.972	43.30
52.	7.68	7.86	-.18	2.06	2.29	-.23	6.46	6.21	.25	.791	.632	.976	44.66
53.	7.86	8.09	-.24	2.05	2.29	-.24	6.81	6.59	.38	.762	.595	.974	43.16
54.	8.06	8.32	-.26	2.13	2.37	-.24	7.17	6.73	.44	.756	.576	.973	40.76
55.	8.34	8.56	-.22	2.29	2.50	-.21	7.57	6.89	.68	.749	.567	.971	39.30
56.	8.90	8.81	.09	2.44	2.64	-.19	7.86	7.13	.73	.726	.527	.967	36.38
57.	8.63	9.07	-.44	2.55	2.73	-.18	8.12	7.43	.69	.696	.482	.965	35.16
58.	8.82	9.32	-.50	2.56	2.78	-.22	8.43	7.73	.70	.674	.452	.964	34.02
59.	9.15	9.58	-.43	2.64	2.83	-.19	8.88	7.97	.90	.648	.433	.965	32.76
60.	9.30	9.86	-.55	2.60	2.88	-.28	9.92	8.14	.78	.609	.401	.957	33.54
61.	9.75	10.15	-.40	2.77	3.01	-.25	9.25	8.32	.93	.701	.493	.966	35.82
62.	10.01	10.46	-.46	3.04	3.16	-.21	9.43	8.55	.88	.701	.488	.965	34.84
63.	10.36	10.79	-.43	2.95	3.18	-.23	9.77	8.80	.98	.683	.479	.966	34.47
64.	10.86	11.09	-.23	2.89	3.13	-.24	10.27	9.55	.72	.598	.367	.965	29.95
65.	11.77	11.33	.44	2.86	3.09	-.22	11.49	10.43	1.06	.415	.154	.963	26.32
66.	11.91	11.49	.42	2.91	3.11	-.20	12.00	11.13	.77	.249	-.027	.963	28.43
67.	11.96	11.58	.38	3.07	3.18	-.11	12.20	11.43	.67	.154	-.121	.962	33.36
68.	11.92	11.64	.27	3.28	3.27	.01	12.29	11.80	.49	.081	-.182	.966	33.72
69.	11.94	11.67	.27	3.60	3.63	-.43	12.35	11.99	.36	.023	-.231	.968	33.64
70.	11.96	11.68	.29	3.50	3.46	.04	12.45	12.16	.29	.005	-.278	.959	30.45
71.	11.97	11.68	.29	3.94	3.99	-.06	12.52	12.30	.22	.011	-.314	.946	17.47
72.	12.01	11.69	.32	4.35	4.35	-.01	12.55	12.42	.14	.015	-.337	.937	15.80
73.	12.05	11.70	.35	4.61	4.60	.01	12.55	12.53	.02	.011	-.357	.930	14.57
74.	12.13	11.69	.43	4.77	4.75	.02	12.68	12.74	-.07	-.006	-.398	.928	14.12
75.	12.06	11.64	.43	4.89	4.93	-.04	13.00	13.12	-.12	-.109	-.473	.928	13.47
76.	11.99	11.50	.49	5.32	5.27	.05	13.45	13.54	-.09	-.198	-.562	.934	12.48
77.	11.76	11.30	.47	5.82	5.69	.13	13.61	13.69	-.08	-.214	-.592	.934	11.24
78.	11.24	11.10	.14	6.20	5.95	.26	13.23	13.42	-.19	-.165	-.578	.899	10.30
79.	11.07	10.96	.11	6.61	6.27	.03	12.64	12.91	-.27	-.088	-.532	.887	9.95
80.	11.09	10.92	.17	6.12	6.17	-.05	12.22	12.57	-.35	-.006	-.496	.871	9.43
81.	11.20	10.93	.27	6.57	6.47	.10	12.33	12.63	-.30	.032	-.480	.856	8.96
82.	10.99	10.97	.02	6.51	6.46	.06	12.35	12.59	-.24	.034	-.483	.859	8.96
83.	11.11	10.97	.15	6.41	6.36	.05	12.46	12.81	-.34	-.024	-.517	.868	9.04
84.	11.24	10.98	.26	6.56	6.55	.01	12.68	13.14	-.45	-.074	-.562	.868	8.70
85.	10.89	10.80	.11	7.13	7.01	.12	13.05	13.33	-.28	-.078	-.593	.862	8.01
86.	10.85	10.69	.16	7.68	7.52	.17	13.29	13.54	-.25	-.076	-.616	.853	7.48
87.	10.95	10.59	.36	8.04	7.85	.18	13.71	13.62	.09	-.071	-.632	.848	7.15
88.	10.46	10.52	-.06	8.13	8.23	-.09	12.89	13.44	-.55	-.011	-.622	.791	6.78
89.	10.54	10.58	-.03	9.37	9.20	-.21	13.38	13.47	-.10	.071	-.629	.791	6.12
90.	10.11	10.84	-.74	11.32	11.23	.09	13.87	13.98	-.11	.149	-.659	.816	6.37

MONTH = 9 LATITUDE = 70
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RTT	RTD	RDD	DETM
22.	1.96	2.26	-.30	1.39	1.41	-.02	2.45	2.42	.03	.197	-.397	.822	10.77
23.	2.00	2.32	-.32	1.35	1.35	-.01	2.31	2.26	.06	.338	-.253	.835	11.90
24.	2.13	2.40	-.27	1.17	1.29	-.12	2.26	2.22	.03	.411	-.182	.821	12.40
25.	2.20	2.50	-.29	1.62	1.50	.12	2.54	2.25	.29	.459	-.159	.805	12.25
26.	2.28	2.61	-.33	1.24	1.42	-.17	2.26	2.17	.09	.556	.015	.840	14.50
27.	2.37	2.73	-.36	1.19	1.32	-.13	2.34	2.13	.21	.643	.213	.882	15.82
28.	2.46	2.87	-.41	1.26	1.37	-.11	2.42	2.18	.23	.678	.264	.888	16.93
29.	2.58	3.01	-.43	1.31	1.50	-.18	2.55	2.28	.27	.678	.240	.876	16.28
30.	2.78	3.17	-.39	1.55	1.66	-.11	2.77	2.46	.31	.642	.154	.856	16.74
31.	2.88	3.33	-.45	1.56	1.77	-.21	3.11	2.65	.46	.610	.097	.848	16.02
32.	3.00	3.49	-.49	1.69	1.83	-.14	3.18	2.75	.43	.626	.139	.865	16.60
33.	3.06	3.66	-.60	1.58	1.87	-.29	3.28	2.95	.32	.595	.104	.861	16.76
34.	3.08	3.81	-.73	1.76	2.05	-.29	4.17	3.32	.85	.493	-.054	.843	14.78
35.	3.35	3.96	-.61	2.10	2.38	-.28	4.25	3.50	.76	.485	-.131	.804	13.33
36.	3.73	4.15	-.42	2.34	2.61	-.27	4.20	3.48	.72	.550	-.093	.780	13.44
37.	3.96	4.37	-.41	2.33	2.68	-.35	4.11	3.46	.64	.609	-.005	.780	14.60
38.	4.16	4.61	-.45	2.30	2.79	-.48	4.13	3.49	.64	.655	.066	.787	15.74
39.	4.55	4.88	-.33	2.72	3.01	-.29	4.17	3.57	.60	.685	.092	.788	16.18
40.	4.84	5.17	-.33	2.84	3.16	-.32	4.29	3.71	.58	.701	.135	.795	16.93
41.	5.08	5.42	-.34	2.84	3.14	-.31	4.56	3.94	.62	.705	.180	.825	18.22
42.	5.37	5.76	-.39	2.70	3.07	-.36	4.86	4.20	.67	.707	.240	.856	19.98
43.	5.66	6.05	-.39	2.76	3.03	-.27	4.99	4.37	.62	.709	.313	.880	22.14
44.	5.90	6.34	-.44	2.70	2.98	-.28	5.07	4.49	.58	.765	.416	.904	25.38
45.	6.19	6.64	-.45	2.66	2.92	-.26	5.16	4.65	.52	.799	.513	.926	27.41
46.	6.47	6.94	-.46	2.55	2.86	-.31	5.31	4.90	.41	.814	.568	.941	29.50
47.	6.72	7.24	-.52	2.49	2.83	-.34	5.46	5.13	.33	.831	.620	.952	31.04
48.	7.00	7.58	-.58	2.48	2.81	-.33	5.58	5.41	.17	.836	.645	.958	32.42
49.	7.35	7.83	-.48	2.36	2.77	-.41	5.92	5.81	.10	.811	.614	.961	32.23
50.	7.56	8.10	-.54	2.28	2.67	-.39	6.21	6.22	-.01	.784	.597	.964	32.23
51.	7.90	8.36	-.45	2.10	2.55	-.45	6.64	6.57	.07	.778	.601	.970	41.34
52.	8.13	8.60	-.47	2.03	2.48	-.45	6.84	6.89	.05	.767	.592	.973	43.68
53.	8.36	8.85	-.49	2.02	2.50	-.48	7.27	7.13	.14	.760	.592	.974	43.85
54.	8.60	9.09	-.48	2.09	2.49	-.40	7.46	7.39	.08	.756	.593	.975	44.78
55.	8.71	9.32	-.61	1.82	2.40	-.58	7.79	7.67	.12	.756	.606	.978	46.34
56.	9.41	9.56	-.35	1.87	2.62	-.76	8.35	7.91	.44	.713	.529	.979	47.17
57.	11.43	9.44	2.04	2.22	3.17	-.95	10.48	7.75	2.73	.653	.387	.981	38.20
58.	11.89	10.20	1.68	2.34	3.46	-1.12	10.91	7.76	3.15	.702	.587	.982	36.83
59.	12.28	10.56	1.72	2.31	3.44	-1.13	11.22	8.15	3.07	.786	.595	.985	37.48
60.	12.67	10.92	1.75	2.27	3.47	-1.20	11.54	8.60	3.04	.780	.594	.987	37.69
61.	12.56	11.30	1.26	2.54	3.72	-1.18	11.38	8.72	2.66	.780	.595	.984	35.81
62.	13.39	11.71	1.69	2.71	3.88	-1.17	12.17	8.97	3.20	.788	.596	.984	36.76
63.	14.01	12.12	1.89	2.61	3.82	-1.21	12.75	9.46	3.29	.777	.593	.987	36.31
64.	14.57	11.97	2.61	2.63	3.83	-1.21	13.20	10.02	3.18	.629	.367	.955	28.51
65.	15.68	12.43	3.25	2.96	4.10	-1.04	14.42	10.39	4.03	.630	.369	.954	28.13
66.	15.87	13.50	2.37	3.02	3.98	-.97	14.84	10.54	4.30	.809	.668	.975	33.80
67.	16.04	13.95	2.10	2.98	3.81	-.83	15.27	11.29	3.98	.767	.609	.974	34.63
68.	16.19	14.35	1.84	2.84	3.60	-.76	15.47	12.14	3.32	.691	.520	.977	36.78
69.	17.42	14.11	3.31	2.87	3.49	-.62	15.71	12.42	2.88	.474	.249	.971	30.87
70.	16.45	15.12	1.33	2.96	3.50	-.54	15.94	12.94	3.01	.696	.542	.983	36.65
71.	16.61	15.49	1.13	3.21	3.68	-.46	16.23	13.61	2.62	.599	.412	.976	33.26
72.	16.75	15.81	.94	3.55	3.87	-.32	16.45	14.38	2.07	.476	.256	.972	28.83
73.	16.89	16.07	.77	3.59	3.86	-.27	16.77	15.11	1.65	.362	.134	.971	27.16
74.	16.91	16.26	.65	3.42	3.80	-.38	17.23	15.88	1.35	.215	-.019	.972	26.16
75.	16.87	16.34	.54	3.75	4.01	-.26	17.76	16.68	1.08	.037	-.204	.971	25.09
76.	16.72	16.30	.43	4.25	4.41	-.16	18.35	17.42	.93	-.138	-.379	.968	21.58
77.	16.49	16.14	.34	4.60	4.69	-.09	18.79	17.95	.79	-.262	-.497	.958	20.26
78.	16.23	15.89	.34	4.66	4.80	-.15	18.74	18.10	.64	-.341	-.564	.968	18.56
79.	15.75	15.58	.17	4.80	4.94	-.15	18.28	17.96	.32	-.361	-.588	.967	18.50
80.	15.30	15.24	.06	5.12	5.23	-.12	18.12	17.84	.28	-.364	-.608	.962	16.86
81.	14.89	14.85	.04	5.57	5.67	-.10	18.05	17.44	.20	-.390	-.643	.956	15.07
82.	14.46	14.41	.05	6.13	6.09	.04	18.11	17.78	.34	-.407	-.672	.950	13.54
83.	14.18	13.91	.27	6.27	6.31	-.03	17.57	17.56	.01	-.428	-.698	.946	12.64
84.	13.80	13.37	.44	6.38	6.56	-.18	17.46	17.29	.17	-.443	-.731	.940	11.64
85.	12.86	12.79	.07	7.14	7.28	-.14	16.84	17.11	-.27	-.409	-.731	.922	9.76
86.	12.48	12.18	.30	8.50	8.16	.34	17.19	17.13	.06	-.396	-.768	.889	8.23
87.	11.65	11.50	.15	9.64	9.59	.05	17.01	17.02	-.01	-.424	-.781	.849	7.30
88.	10.78	10.75	.03	8.79	8.68	.11	16.44	16.61	-.17	-.455	-.817	.885	7.04
89.	10.08	9.97	.10	9.75	9.23	.48	16.07	16.21	-.14	-.424	-.838	.857	6.04
90.	8.95	9.32	-.37	10.88	10.83	.05	15.83	15.91	-.07	-.241	-.822	.760	4.49

MONTH = 9 LATITUDE = 80

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE ORIG	NEW	DIF	TEMPERATURE ORIG	NEW	DIF	DENSITY ORIG	NEW	DIF	CORRELATION COEFFICIENTS RPT	RTD	RPD	DEPTH
22.	2.15	2.49	-.34	1.52	1.54	-.02	2.66	2.63	.03	.217	-.381	.820	10.90
23.	2.13	2.55	-.42	1.42	1.43	-.01	2.51	2.43	.07	.360	-.210	.837	12.77
24.	2.28	2.64	-.36	1.17	1.45	-.28	2.42	2.38	.04	.444	-.117	.838	13.61
25.	2.34	2.74	-.40	1.74	1.57	.17	2.74	2.39	.35	.439	-.084	.822	13.64
26.	2.43	2.87	-.43	1.22	1.44	-.22	2.40	2.29	.12	.613	.138	.867	17.09
27.	2.54	3.00	-.46	1.15	1.30	-.15	2.50	2.24	.26	.726	.390	.916	22.92
28.	2.63	3.14	-.52	1.23	1.36	-.12	2.63	2.32	.31	.744	.423	.920	23.95
29.	2.75	3.29	-.54	1.28	1.51	-.23	2.79	2.44	.35	.721	.355	.904	21.94
30.	2.98	3.45	-.47	1.61	1.72	-.11	3.06	2.65	.42	.663	.217	.875	18.90
31.	3.07	3.62	-.54	1.60	1.85	-.25	3.45	2.87	.56	.617	.133	.862	17.58
32.	3.20	3.78	-.58	1.74	1.89	-.15	3.55	2.98	.56	.620	.161	.869	18.32
33.	3.24	3.95	-.71	1.57	1.92	-.34	3.64	3.13	.51	.625	.175	.878	18.98
34.	3.20	4.11	-.91	1.77	2.15	-.38	4.63	3.45	1.18	.543	.024	.853	16.57
35.	3.57	4.28	-.70	2.26	2.56	-.31	4.74	3.71	1.03	.505	-.108	.803	14.20
36.	4.01	4.47	-.46	2.51	2.84	-.32	4.65	3.75	.90	.551	-.099	.775	13.90
37.	4.27	4.70	-.43	2.50	2.90	-.40	4.49	3.71	.78	.612	-.007	.706	15.27
38.	4.48	4.95	-.47	2.55	3.01	-.46	4.51	3.73	.77	.65	.065	.795	16.48
39.	4.86	5.22	-.37	2.90	3.25	-.35	4.52	3.81	.71	.66	.090	.785	16.85
40.	4.95	5.53	-.59	3.05	3.39	-.34	4.64	3.94	.70	.707	.130	.793	17.72
41.	5.30	5.84	-.54	2.96	3.32	-.37	4.87	4.16	.71	.716	.206	.832	19.52
42.	5.60	6.14	-.54	2.78	3.21	-.43	5.23	4.40	.83	.727	.284	.865	21.74
43.	5.89	6.44	-.55	2.88	3.20	-.32	5.27	4.56	.72	.751	.360	.886	24.01
44.	6.16	6.75	-.59	2.86	3.18	-.32	5.41	4.67	.75	.790	.460	.908	27.42
45.	6.45	7.07	-.62	2.78	3.12	-.34	5.49	4.84	.65	.822	.556	.930	31.94
46.	6.87	7.39	-.52	2.70	3.05	-.35	5.66	5.13	.53	.834	.607	.945	35.38
47.	7.13	7.70	-.57	2.56	2.99	-.43	5.81	5.46	.35	.836	.632	.954	37.94
48.	7.54	8.01	-.47	2.53	2.96	-.43	5.91	5.80	.10	.827	.631	.958	36.98
49.	7.81	8.30	-.49	2.43	2.92	-.48	6.29	6.17	.12	.813	.622	.961	39.70
50.	8.03	8.59	-.56	2.38	2.82	-.44	6.60	6.54	.07	.805	.625	.967	41.90
51.	8.41	8.86	-.45	2.18	2.69	-.52	7.08	6.91	.17	.797	.633	.972	44.03
52.	8.67	9.12	-.45	2.10	2.61	-.50	7.39	7.24	.15	.789	.635	.975	45.42
53.	8.93	9.38	-.46	2.08	2.62	-.53	7.75	7.50	.25	.786	.634	.976	45.67
54.	9.19	9.23	-.05	2.15	2.58	-.43	7.93	8.10	-.17	.553	.311	.964	33.28
55.	9.28	9.48	-.20	1.75	2.39	-.63	8.28	8.57	-.29	.497	.260	.970	34.85
56.	9.77	10.12	-.35	1.75	2.52	-.76	8.91	8.60	.31	.691	.509	.977	41.34
57.	12.34	10.39	1.95	2.07	3.05	-.98	11.18	8.28	2.90	.769	.596	.972	39.41
58.	12.79	10.74	2.05	2.22	3.36	-1.14	11.63	8.21	3.42	.820	.663	.972	40.
59.	13.25	11.12	2.13	2.18	3.33	-1.15	11.97	8.64	3.33	.812	.659	.974	40.96
60.	13.67	11.50	2.17	2.14	3.36	-1.22	12.33	9.03	3.30	.802	.649	.975	40.41
61.	13.49	11.90	1.59	2.46	3.65	-1.19	12.10	9.24	2.87	.801	.637	.972	37.79
62.	14.37	12.33	2.04	2.60	3.80	-1.20	12.96	9.51	3.44	.811	.652	.972	38.03
63.	15.06	12.78	2.28	2.50	3.75	-1.25	13.61	10.04	3.57	.799	.643	.974	38.31
64.	15.62	13.23	2.39	2.63	3.86	-1.23	14.03	10.48	3.56	.785	.623	.974	36.91
65.	16.78	13.71	3.07	2.99	4.10	-1.11	15.27	10.73	4.54	.796	.635	.973	36.44
66.	16.99	13.51	3.47	3.05	4.10	-1.05	15.69	11.54	4.15	.597	.343	.958	26.31
67.	17.19	14.11	3.08	2.95	3.86	-.91	16.16	12.46	3.70	.539	.301	.965	27.17
68.	17.38	15.20	2.18	2.75	3.62	-.86	16.39	12.86	3.52	.716	.565	.981	36.84
69.	17.42	15.61	1.81	2.95	3.54	-.59	16.68	13.50	3.18	.670	.512	.981	35.41
70.	17.70	16.00	1.70	2.76	3.42	-.66	16.95	14.08	2.87	.634	.478	.982	35.22
71.	17.90	16.37	1.52	2.93	3.49	-.56	17.29	14.47	2.81	.619	.460	.982	34.30
72.	18.05	16.77	1.28	3.24	3.60	-.36	17.56	14.70	2.86	.647	.493	.982	34.68
73.	18.16	17.12	1.04	3.19	3.46	-.28	17.95	15.74	2.22	.485	.307	.981	31.77
74.	18.23	17.35	.88	2.82	3.28	-.46	18.49	16.74	1.75	.276	.090	.982	30.62
75.	18.20	17.44	.76	3.29	3.52	-.24	19.09	17.73	1.35	.016	-.193	.980	27.22
76.	18.02	17.36	.66	3.83	3.95	-.12	19.72	18.66	1.05	-.228	-.424	.979	25.63
77.	17.78	17.15	.64	4.11	4.16	-.05	20.17	19.13	1.04	-.384	-.561	.980	25.11
78.	17.58	16.87	.71	4.01	4.22	-.21	20.24	18.99	1.25	-.410	-.596	.979	26.57
79.	17.03	16.58	.45	4.32	4.41	-.10	19.80	18.81	1.00	-.404	-.591	.977	25.60
80.	16.46	16.28	.19	4.74	4.75	-.01	19.70	18.85	.86	-.438	-.630	.974	24.55
81.	15.94	15.92	.02	5.07	5.22	-.16	19.58	18.94	.64	-.471	-.671	.970	21.22
82.	15.44	15.47	-.02	6.00	5.80	.20	19.66	19.07	.59	-.506	-.715	.965	18.20
83.	14.18	14.91	-.73	6.23	6.14	.09	18.97	19.10	-.13	-.573	-.768	.965	16.66
84.	14.56	14.24	.32	6.32	6.44	-.11	18.70	18.76	-.07	-.588	-.789	.962	14.65
85.	13.50	13.52	-.02	7.14	7.27	-.13	17.92	18.39	-.47	-.522	-.779	.941	11.10
86.	12.97	12.74	.23	8.76	8.29	.47	18.31	18.31	.00	-.493	-.796	.910	8.94
87.	11.87	11.88	-.01	8.84	8.77	.07	17.98	18.10	-.13	-.526	-.830	.911	9.02
88.	10.68	10.91	-.03	8.99	8.79	.20	17.46	17.59	-.13	-.597	-.865	.915	7.69
89.	9.92	9.84	.08	8.64	9.19	-.55	16.87	17.02	-.15	-.600	-.887	.902	6.66
90	8.53	8.83	-.30	10.73	10.69	.04	16.43	16.50	-.06	-.424	-.875	.810	4.54

MONTH = 10 LATITUDE = 10
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	.62	1.09	-.47	1.76	1.74	.02	1.16	1.14	.02	.769	-.790	-.216	6.13
23.	.89	1.27	-.38	1.44	1.57	-.13	1.44	1.37	.07	.553	-.637	.290	6.08
24.	1.35	1.38	-.03	1.37	1.47	-.10	1.84	1.58	.25	.344	-.595	.514	6.48
25.	1.39	1.46	-.07	1.34	1.42	-.08	1.72	1.65	.07	.343	-.566	.590	7.00
26.	1.42	1.54	-.12	1.35	1.39	-.04	1.72	1.63	.09	.384	-.489	.618	7.84
27.	1.47	1.62	-.15	1.28	1.35	-.07	1.67	1.62	.06	.421	-.413	.653	8.73
28.	1.52	1.71	-.19	1.24	1.34	-.10	1.75	1.64	.11	.441	-.357	.681	9.48
29.	1.61	1.80	-.19	1.32	1.42	-.10	1.82	1.69	.13	.468	-.337	.674	9.72
30.	1.64	1.91	-.27	1.44	1.52	-.08	1.89	1.76	.13	.495	-.329	.658	9.84
31.	1.78	2.02	-.24	1.47	1.57	-.09	2.05	1.81	.24	.514	-.291	.671	10.34
32.	1.93	2.15	-.21	1.40	1.53	-.13	1.99	1.79	.21	.571	-.173	.710	11.87
33.	2.01	2.28	-.28	1.36	1.55	-.19	1.88	1.72	.16	.657	-.029	.735	13.73
34.	2.09	2.43	-.34	1.54	1.62	-.09	1.92	1.82	.10	.662	-.008	.749	14.21
35.	2.60	2.57	.03	1.48	1.65	-.17	2.43	2.13	.31	.566	-.091	.770	13.61
36.	2.71	2.69	.02	1.53	1.64	-.10	2.68	2.39	.28	.474	-.161	.799	13.54
37.	2.76	2.79	-.03	1.51	1.64	-.13	2.70	2.50	.20	.462	-.139	.814	14.13
38.	2.83	2.90	-.07	1.58	1.67	-.09	2.72	2.57	.15	.475	-.114	.821	14.68
39.	2.90	3.00	-.10	1.63	1.72	-.10	2.83	2.66	.16	.474	-.113	.822	14.89
40.	2.97	3.11	-.14	1.70	1.77	-.07	2.94	2.76	.17	.470	-.111	.825	15.17
41.	3.10	3.22	-.12	1.69	1.78	-.08	3.00	2.86	.13	.465	-.097	.836	15.72
42.	3.20	3.32	-.13	1.67	1.73	-.06	3.17	3.03	.13	.421	-.110	.855	16.36
43.	3.37	3.41	-.04	1.58	1.69	-.11	3.44	3.22	.22	.354	-.150	.871	16.78
44.	3.48	3.48	-.00	1.65	1.72	-.07	3.48	3.36	.12	.316	-.183	.875	16.78
45.	3.58	3.55	.03	1.72	1.76	-.03	3.62	3.46	.16	.299	-.202	.874	16.77
46.	3.66	3.61	.04	1.71	1.76	-.06	3.69	3.52	.10	.299	-.194	.878	17.03
47.	3.65	3.68	-.04	1.72	1.75	-.03	3.64	3.54	.11	.320	-.162	.883	17.66
48.	3.66	3.76	-.09	1.68	1.73	-.05	3.62	3.56	.06	.340	-.124	.889	18.33
49.	3.82	3.83	-.01	1.69	1.74	-.05	3.71	3.59	.12	.361	-.100	.892	18.86
50.	3.84	3.92	-.07	1.75	1.87	-.13	3.67	3.63	.03	.384	-.101	.880	18.16
51.	3.91	4.01	-.10	2.15	2.02	.12	3.83	3.72	.11	.392	-.121	.865	17.15
52.	4.02	4.11	-.09	1.88	2.00	-.11	3.89	3.78	.11	.409	-.091	.878	17.85
53.	4.04	4.21	-.17	1.89	1.91	-.01	3.88	3.83	.05	.416	-.040	.892	19.11
54.	4.20	4.31	-.11	1.78	1.88	-.10	4.07	3.97	.10	.392	-.049	.900	19.53
55.	4.22	4.40	-.18	1.87	1.93	-.05	4.29	4.13	.16	.354	-.089	.900	19.08
56.	4.32	4.49	-.17	1.97	2.03	-.06	4.36	4.21	.14	.358	-.100	.893	18.23
57.	4.37	4.59	-.22	2.07	2.11	-.04	4.39	4.22	.17	.398	-.069	.888	18.09
58.	4.52	4.71	-.20	2.08	2.17	-.09	4.35	4.21	.15	.452	-.017	.888	18.31
59.	4.68	4.85	-.17	2.15	2.29	-.14	4.39	4.28	.11	.471	-.002	.881	17.84
60.	4.87	5.00	-.13	2.44	2.53	-.09	4.73	4.44	.29	.464	-.046	.864	16.44
61.	4.81	5.17	-.36	2.66	2.80	-.14	4.74	4.61	.14	.462	-.089	.843	15.07
62.	5.13	5.36	-.24	2.93	3.07	-.14	5.20	4.77	.42	.468	-.118	.823	14.06
63.	5.34	5.58	-.24	3.15	3.26	-.11	5.12	4.85	.27	.503	-.094	.814	13.82
64.	5.77	5.82	-.05	3.06	3.25	-.19	5.32	5.00	.32	.515	-.051	.830	14.43
65.	6.21	6.06	.16	2.92	3.20	-.28	5.76	5.29	.47	.490	-.045	.849	14.78
66.	6.39	6.29	.11	3.14	3.37	-.24	5.87	5.59	.29	.465	-.081	.845	14.11
67.	6.73	6.53	.20	3.59	3.68	-.09	6.26	5.93	.33	.436	-.139	.830	13.05
68.	6.92	6.77	.15	3.75	3.86	-.11	6.54	6.28	.27	.408	-.175	.828	12.49
69.	7.11	7.01	.10	3.78	4.02	-.24	6.80	6.64	.16	.376	-.210	.828	12.05
70.	7.38	7.24	.14	4.29	4.34	-.05	7.30	7.11	.19	.329	-.275	.817	11.17
71.	7.54	7.45	.09	4.57	4.60	-.02	7.76	7.61	.16	.274	-.336	.814	10.56
72.	7.78	7.63	.15	4.61	4.64	-.03	8.20	8.06	.13	.208	-.379	.826	10.49
73.	7.90	7.75	.14	4.51	4.63	-.12	8.57	8.52	.05	.125	-.429	.842	10.30
74.	8.00	7.82	.17	4.69	4.74	-.05	9.07	8.82	.16	.056	-.482	.848	10.07
75.	7.98	7.87	.11	4.96	4.95	.01	9.14	9.03	.11	.063	-.493	.837	9.60
76.	8.02	7.96	.06	5.16	5.14	.01	8.85	8.79	.05	.153	-.446	.816	9.48
77.	8.27	8.15	.12	5.30	5.38	-.08	8.34	8.45	-.12	.273	-.373	.791	9.41
78.	8.64	8.45	.19	5.80	5.56	.25	8.23	8.23	-.01	.367	-.298	.778	9.71
79.	8.99	8.81	.17	5.42	5.43	-.01	8.01	8.16	-.15	.423	-.208	.798	10.60
80.	8.18	9.20	-1.02	5.15	5.30	-.16	8.29	8.43	-.14	.427	-.163	.823	11.34
81.	9.76	9.56	.20	5.44	5.48	-.04	9.24	9.11	.13	.368	-.216	.829	11.10
82.	9.92	9.88	.05	5.70	5.65	.05	9.97	9.78	.18	.303	-.272	.835	10.84
83.	10.23	10.15	.08	5.69	5.75	-.15	10.27	10.21	.06	.273	-.292	.841	10.86
84.	10.54	10.44	.10	5.98	6.01	-.03	10.56	10.37	.19	.298	-.278	.833	10.76
85.	10.84	10.80	.04	6.41	6.60	-.19	10.23	10.29	-.06	.382	-.241	.805	10.52
86.	11.25	11.31	-.05	7.55	7.46	.09	10.23	10.29	-.06	.460	-.219	.766	10.16
87.	11.85	11.94	-.09	8.26	8.10	.16	10.56	10.59	-.03	.497	-.205	.748	9.90
88.	12.64	12.65	-.01	9.27	8.45	-.18	11.11	11.12	-.00	.504	-.187	.755	10.20
89.	13.44	13.41	.03	8.91	9.29	-.37	11.80	11.78	.02	.512	-.206	.736	9.84
90.	14.48	14.33	.15	10.99	11.00	-.01	12.49	12.48	.01	.541	-.259	.672	9.07

MONTH = 10 LATITUDE = 30
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RDD	DEPTH
22.	1.24	2.27	-1.02	1.40	1.51	-.11	1.71	1.56	.15	.731	.094	.748	13.83
23.	1.41	2.47	-1.06	1.81	1.93	-.12	1.71	1.64	.07	.744	-.051	.695	12.29
24.	2.80	2.67	.13	1.71	1.90	-.19	2.81	2.17	.65	.596	-.142	.710	11.27
25.	2.92	2.81	.11	1.41	1.67	-.25	3.01	2.65	.36	.346	-.219	.815	11.92
26.	2.99	2.89	.10	1.49	1.61	-.11	3.18	2.86	.32	.297	-.262	.844	12.36
27.	3.02	2.97	.05	1.58	1.67	-.09	3.10	2.91	.20	.318	-.249	.839	12.37
28.	3.01	3.06	-.05	1.63	1.74	-.11	3.05	2.90	.16	.374	-.206	.831	12.59
29.	3.06	3.17	-.11	1.77	1.88	-.11	3.07	2.90	.17	.435	-.173	.811	12.48
30.	3.15	3.31	-.16	2.01	2.04	-.03	3.02	2.89	.14	.501	-.133	.791	12.60
31.	3.36	3.47	-.10	2.02	2.11	-.09	3.03	2.90	.13	.552	-.068	.794	13.38
32.	3.42	3.65	-.23	2.03	2.10	-.08	3.10	2.94	.16	.593	.020	.817	14.74
33.	3.55	3.83	-.28	1.96	2.08	-.12	3.13	3.02	.11	.622	.101	.842	16.26
34.	3.68	4.02	-.34	1.96	2.06	-.09	3.37	3.15	.23	.633	.155	.863	17.57
35.	3.82	4.20	-.38	1.92	2.06	-.15	3.48	3.32	.16	.630	.176	.875	18.50
36.	4.07	4.39	-.31	2.00	2.13	-.13	3.82	3.50	.31	.616	.163	.878	18.59
37.	4.16	4.58	-.42	2.11	2.20	-.09	3.98	3.62	.28	.632	.193	.882	19.20
38.	4.24	4.78	-.54	2.02	2.21	-.19	3.96	3.69	.27	.667	.265	.895	20.98
39.	4.30	4.99	-.69	2.02	2.28	-.26	3.95	3.80	.15	.688	.304	.900	21.98
40.	4.48	5.21	-.73	2.09	2.40	-.31	4.03	3.89	.14	.711	.337	.901	22.80
41.	4.65	5.45	-.80	2.07	2.51	-.44	4.07	3.97	.10	.741	.385	.905	24.03
42.	4.78	5.70	-.92	2.12	2.61	-.48	4.24	4.17	.08	.739	.386	.907	24.43
43.	5.17	5.96	-.79	2.13	2.67	-.54	4.95	4.41	.54	.730	.382	.911	24.70
44.	5.28	6.22	-.94	2.07	2.75	-.67	4.62	4.53	.09	.754	.430	.917	26.44
45.	5.42	6.50	-1.08	2.11	2.86	-.75	4.83	4.69	.15	.765	.450	.919	27.35
46.	5.60	6.79	-1.19	2.01	2.99	-.98	4.98	4.85	.13	.776	.470	.921	28.09
47.	5.73	7.11	-1.37	2.10	3.19	-1.09	5.14	4.88	.26	.812	.529	.935	30.88
48.	5.81	7.46	-1.65	2.08	3.48	-1.40	5.20	4.87	.33	.849	.587	.956	31.85
49.	6.13	7.85	-1.72	2.17	3.74	-1.57	5.41	5.00	.40	.862	.605	.955	32.57
50.	6.30	8.27	-1.97	2.07	3.84	-1.77	5.49	5.26	.23	.874	.644	.935	35.15
51.	14.98	8.26	6.71	2.23	3.77	-1.53	14.05	5.80	8.24	.784	.467	.915	27.83
52.	15.21	8.67	6.54	2.25	3.70	-1.45	16.51	6.34	10.17	.758	.453	.925	28.08
53.	15.28	9.15	6.13	2.25	3.58	-1.33	14.96	7.00	7.96	.725	.435	.936	28.73
54.	15.56	9.97	5.59	2.29	3.55	-1.26	15.87	7.26	8.61	.838	.663	.964	30.69
55.	15.67	10.36	5.30	2.54	3.64	-1.09	14.93	7.60	7.33	.834	.656	.965	30.60
56.	16.27	10.75	5.52	2.61	3.64	-1.03	16.09	8.14	7.95	.800	.609	.963	37.28
57.	16.88	11.14	5.74	2.57	3.59	-1.02	15.87	8.42	7.45	.826	.667	.971	41.28
58.	17.68	11.55	6.13	2.86	3.73	-.88	19.64	8.73	10.91	.825	.665	.970	40.60
59.	17.68	11.90	5.78	3.13	3.78	-.68	21.58	10.26	11.32	.564	.286	.953	27.89
60.	17.70	12.03	5.67	3.09	3.86	-.98	17.68	12.86	4.82	-.862	-.358	.854	22.55
61.	18.46	11.93	6.53	3.95	4.22	-.37	24.90	13.82	11.08	-.307	-.571	.957	21.20
62.	19.93	11.69	8.24	3.61	4.35	-.74	23.84	14.26	9.58	-.459	-.690	.963	21.54
63.	25.70	11.41	9.29	4.12	4.38	-.26	25.60	13.90	11.70	-.439	-.676	.959	20.38
64.	21.10	11.18	9.93	4.15	3.80	.35	26.74	13.00	12.74	-.347	-.591	.962	21.88
65.	10.46	11.04	-.58	2.31	2.66	-.36	10.22	11.95	-1.73	-.236	-.440	.976	29.45
66.	10.58	10.98	-.40	2.48	2.32	.16	10.58	11.38	-.80	-.072	-.273	.979	33.21
67.	10.66	10.94	-.28	2.67	2.45	.22	10.87	11.58	-.71	-.126	-.348	.974	27.85
68.	10.56	10.87	-.32	3.18	2.67	.51	11.19	11.74	-.55	-.214	-.425	.975	27.47
69.	10.52	10.77	-.25	2.09	2.70	-.62	11.34	11.87	-.53	-.301	-.501	.976	27.13
70.	10.59	10.64	-.05	4.01	3.52	.49	11.62	11.97	-.35	-.236	-.503	.958	19.94
71.	10.55	10.53	.03	4.50	4.37	.13	11.62	11.98	-.36	-.148	-.495	.933	15.30
72.	10.56	10.44	.12	5.35	4.86	.20	11.60	11.93	-.32	-.096	-.481	.914	13.52
73.	10.57	10.37	.20	5.39	5.19	.20	11.57	11.94	-.37	-.076	-.500	.901	12.37
74.	10.64	10.29	.35	5.51	5.33	.18	11.77	12.08	-.31	-.106	-.531	.899	11.89
75.	10.33	10.17	.16	5.49	5.41	.09	11.96	12.31	-.36	-.173	-.582	.902	11.57
76.	10.27	9.98	.28	5.75	5.64	.11	12.28	12.54	-.27	-.236	-.632	.909	10.92
77.	10.16	9.74	.41	6.21	5.95	.26	12.33	12.69	-.36	-.266	-.672	.892	10.14
78.	10.04	9.46	.58	6.35	6.06	.29	12.42	12.63	-.21	-.298	-.697	.888	9.64
79.	9.43	9.19	.24	6.13	6.04	.09	11.84	12.12	-.28	-.233	-.675	.875	9.21
80.	9.09	9.03	.06	6.38	6.50	-.12	10.86	11.56	-.70	-.084	-.628	.828	8.16
81.	9.57	8.98	.59	7.99	7.18	.81	11.26	11.48	-.22	.003	-.623	.780	7.28
82.	8.76	9.00	-.23	7.33	7.20	.14	11.15	11.41	-.26	.019	-.615	.776	7.25
83.	8.88	9.05	-.17	7.22	6.92	.30	10.79	11.05	-.26	.061	-.577	.780	7.56
84.	8.99	9.17	-.18	6.99	6.96	.04	10.48	10.66	-.18	.149	-.525	.764	7.66
85.	9.22	9.42	-.20	7.29	7.23	.06	10.20	10.36	-.16	.247	-.473	.737	7.68
86.	9.66	9.78	-.12	7.64	7.60	.04	10.13	10.42	-.29	.301	-.447	.719	7.70
87.	9.94	10.20	-.26	8.01	8.03	-.02	10.99	10.85	.14	.310	-.449	.719	7.62
88.	10.66	10.68	-.02	8.54	8.84	-.30	11.18	11.30	-.12	.341	-.460	.678	7.34
89.	11.48	11.32	.17	10.29	10.61	-.32	11.84	12.06	-.21	.397	-.507	.598	6.63
90.	12.11	12.23	-.12	13.34	13.32	.01	13.34	13.35	-.01	.457	-.580	.468	5.80

MONTH = 10 LATITUDE = 50

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE ORIG	PRESSURE NEW	PRESSURE DIF	TEMPERATURE ORIG	TEMPERATURE NEW	TEMPERATURE DIF	DENSITY ORIG	DENSITY NEW	DENSITY DIF	CORRELATION COEFFICIENTS RPT	RTD	RPD	DEPTH
22.	2.74	2.68	.06	1.27	1.27	.00	2.32	2.32	-.00	.502	.033	.881	15.59
23.	2.59	2.81	-.22	1.50	1.48	.03	2.00	2.11	-.10	.660	.206	.858	16.63
24.	2.96	2.98	-.02	1.60	1.61	-.01	2.14	2.15	-.01	.712	.234	.850	16.87
25.	3.13	3.16	-.03	1.70	1.71	-.01	2.39	2.31	.08	.699	.214	.848	16.61
26.	3.33	3.35	-.02	1.78	1.79	-.01	2.41	2.41	.00	.721	.261	.857	17.40
27.	3.53	3.56	-.03	1.83	1.87	-.03	2.49	2.50	-.01	.745	.314	.868	18.51
28.	3.75	3.78	-.03	1.95	1.94	.01	2.70	2.64	.06	.756	.348	.877	19.35
29.	3.97	4.01	-.04	1.96	2.01	-.05	2.76	2.80	-.04	.761	.371	.885	20.06
30.	4.21	4.25	-.04	2.11	2.10	.02	3.08	3.03	.05	.744	.350	.886	19.86
31.	4.43	4.49	-.05	2.14	2.13	.01	3.29	3.25	.04	.737	.361	.896	20.58
32.	4.67	4.72	-.05	2.07	2.11	-.04	3.44	3.43	.01	.751	.423	.914	22.71
33.	4.86	4.96	-.08	2.09	2.14	-.05	3.66	3.63	.03	.756	.445	.923	23.80
34.	4.99	5.21	-.21	2.22	2.29	-.08	3.90	3.81	.08	.747	.419	.917	23.21
35.	5.25	5.47	-.22	2.54	2.56	-.02	4.00	3.98	.02	.737	.371	.901	21.78
36.	5.59	5.75	-.16	2.79	2.75	.04	4.29	4.21	.08	.726	.339	.893	21.10
37.	5.81	6.04	-.24	2.69	2.78	-.09	4.58	4.47	.11	.722	.355	.903	22.09
38.	6.00	6.33	-.33	2.72	2.80	-.08	4.82	4.71	.10	.724	.378	.912	23.32
39.	6.45	6.61	-.16	2.81	2.90	-.09	5.10	4.99	.11	.710	.359	.912	23.31
40.	6.50	6.90	-.40	2.98	3.07	-.09	5.47	5.28	.19	.687	.316	.907	22.54
41.	6.73	7.19	-.46	3.18	3.24	-.06	5.72	5.50	.21	.686	.309	.904	22.45
42.	7.09	7.50	-.41	3.21	3.35	-.14	5.86	5.78	.08	.678	.301	.905	22.57
43.	7.61	7.80	-.19	3.35	3.42	-.07	6.54	6.09	.45	.665	.290	.908	22.90
44.	7.90	8.11	-.22	3.30	3.42	-.12	6.35	6.20	.15	.704	.369	.920	25.25
45.	8.20	8.44	-.24	3.28	3.36	-.08	6.47	6.30	.17	.756	.477	.937	29.23
46.	8.54	8.77	-.24	3.17	3.27	-.11	6.79	6.53	.26	.785	.554	.951	33.07
47.	8.81	9.11	-.30	3.07	3.17	-.10	6.96	6.83	.13	.803	.607	.961	36.96
48.	9.10	9.43	-.34	2.92	3.09	-.17	7.29	7.25	.04	.789	.600	.965	38.21
49.	9.52	9.74	-.22	2.89	3.04	-.15	7.69	7.66	.03	.768	.579	.967	38.64
50.	9.80	10.04	-.24	2.82	2.99	-.17	8.04	8.01	.03	.758	.577	.970	39.93
51.	10.14	10.33	-.19	2.75	2.91	-.15	8.43	8.37	.06	.750	.578	.973	41.36
52.	10.40	10.60	-.21	2.60	2.81	-.21	8.77	8.74	.03	.739	.575	.976	42.78
53.	10.71	10.87	-.16	2.57	2.78	-.21	9.21	9.10	.11	.713	.546	.977	42.24
54.	10.95	11.13	-.19	2.66	2.86	-.20	9.69	9.36	.33	.701	.528	.976	41.05
55.	11.19	11.41	-.22	2.82	3.00	-.17	10.06	9.53	.53	.707	.532	.975	40.16
56.	11.40	11.70	-.30	2.99	3.18	-.19	10.44	9.84	.60	.673	.477	.971	36.67
57.	11.78	11.98	-.20	3.24	3.37	-.14	10.94	10.28	.66	.611	.384	.966	32.69
58.	12.02	12.26	-.24	3.39	3.51	-.12	11.34	10.68	.66	.565	.320	.963	30.51
59.	12.31	12.54	-.23	3.42	3.52	-.10	11.69	10.98	.71	.554	.312	.964	30.30
60.	12.59	12.82	-.23	3.23	3.41	-.18	11.79	11.06	.73	.614	.404	.970	33.52
61.	12.33	13.13	-.81	3.06	3.26	-.20	11.57	11.15	.42	.686	.516	.977	38.25
62.	12.87	13.47	-.60	2.97	3.29	-.31	11.91	11.40	.51	.704	.544	.979	39.20
63.	13.28	13.82	-.54	3.30	3.44	-.14	12.29	11.63	.66	.709	.547	.978	38.21
64.	13.99	14.17	-.18	3.33	3.37	-.07	13.00	12.26	.74	.695	.471	.978	36.29
65.	14.86	14.44	.42	2.77	3.12	-.35	13.38	13.30	1.08	.460	.265	.978	33.88
66.	15.01	14.62	.40	2.96	3.12	-.16	14.92	14.10	.82	.269	.057	.977	31.15
67.	15.08	14.73	.35	3.23	3.28	-.05	15.23	14.56	.67	.162	-.062	.975	28.90
68.	15.02	14.79	.23	3.23	3.04	.18	15.33	14.84	.50	.087	-.118	.979	30.66
69.	14.96	14.81	.15	2.14	2.86	-.73	15.46	15.07	.39	.006	-.184	.982	32.88
70.	15.06	14.80	.26	3.69	3.48	.21	15.64	15.30	.34	-.027	-.254	.974	26.12
71.	15.02	14.79	.24	4.15	4.20	-.06	15.73	15.50	.23	-.031	-.301	.963	21.43
72.	15.01	14.76	.25	4.58	4.59	-.01	15.84	15.68	.16	-.053	-.342	.956	19.42
73.	14.95	14.70	.25	4.87	4.84	.02	15.96	15.89	.07	-.092	-.389	.953	18.28
74.	14.91	14.59	.32	4.95	4.93	.02	16.10	16.17	.02	-.169	-.458	.954	17.86
75.	14.62	14.40	.22	4.90	4.96	-.05	16.50	16.52	-.01	-.286	-.556	.958	17.93
76.	14.36	14.11	.26	5.08	5.17	-.08	16.82	16.84	-.02	-.397	-.639	.959	17.40
77.	14.08	13.71	.37	5.68	5.57	.11	16.98	17.02	-.04	-.462	-.700	.957	16.18
78.	13.71	13.25	.46	5.98	5.87	.10	16.85	16.85	-.01	-.476	-.722	.952	14.86
79.	13.10	12.79	.31	6.10	6.08	.02	16.09	16.29	-.20	-.416	-.700	.941	13.34
80.	12.76	12.39	.37	6.46	6.59	-.13	15.30	15.71	-.41	-.305	-.660	.917	11.33
81.	12.62	12.07	.56	7.76	7.15	.61	15.20	15.44	-.24	-.242	-.652	.893	9.93
82.	11.80	11.75	.13	7.17	7.13	.03	14.95	15.29	-.34	-.268	-.672	.893	9.70
83.	11.68	11.36	.32	7.05	6.95	.10	14.83	15.27	-.44	-.353	-.718	.905	9.92
84.	11.48	10.90	.59	7.17	7.08	.09	15.19	15.17	.03	-.396	-.752	.903	9.47
85.	10.03	10.44	-.41	7.59	7.49	.10	14.13	14.62	-.48	-.310	-.734	.873	8.20
86.	9.86	10.09	-.23	8.19	8.03	.16	13.90	14.16	-.26	-.211	-.718	.832	7.20
87.	9.55	9.83	-.27	8.58	8.54	.04	13.98	13.94	.03	-.148	-.717	.796	6.64
88.	9.66	9.68	-.02	9.07	9.24	-.16	13.50	13.64	-.15	-.040	-.705	.776	6.02
89.	10.03	9.76	.27	10.40	10.73	-.33	13.33	13.66	-.33	.113	-.705	.625	5.28
90.	9.76	10.18	-.42	13.24	13.19	.05	14.22	14.28	-.06	.274	-.724	.459	4.45

MONTH = 10 LATITUDE = 70
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	3.29	3.73	-.44	1.91	1.93	-.02	3.46	3.43	.04	.411	-.115	.859	13.62
23.	3.59	3.84	-.25	1.95	1.98	-.03	3.81	3.76	.06	.309	-.219	.865	13.12
24.	4.22	3.90	.31	1.96	2.01	-.05	4.23	4.19	.04	.110	-.377	.879	12.60
25.	4.72	3.91	.81	2.05	2.02	.03	4.74	4.56	.18	-.084	-.519	.897	12.56
26.	4.47	3.88	.59	2.03	2.02	.01	4.51	4.52	-.02	-.084	-.519	.896	12.48
27.	3.91	3.89	.02	2.11	2.00	.10	4.06	4.08	-.02	.163	-.336	.875	12.80
28.	3.30	3.99	-.69	1.94	1.97	-.04	3.37	3.53	-.17	.465	-.034	.869	14.89
29.	3.49	4.15	-.66	1.95	1.99	-.04	3.28	3.36	-.07	.600	.150	.881	17.12
30.	3.89	4.33	-.44	1.94	2.07	-.12	3.82	3.59	.23	.566	.107	.880	16.76
31.	3.80	4.51	-.71	2.08	2.16	-.08	4.13	3.80	.33	.540	.071	.878	16.30
32.	3.88	4.70	-.82	2.04	2.29	-.24	4.18	3.78	.40	.606	.149	.877	17.17
33.	3.84	4.94	-1.10	2.30	2.44	-.14	4.07	3.56	.51	.733	.330	.884	19.91
34.	3.85	5.24	-1.38	2.20	2.65	-.45	3.83	3.39	.44	.827	.497	.899	23.71
35.	4.82	5.58	-.76	2.66	3.04	-.38	4.27	3.57	.70	.814	.421	.869	21.47
36.	5.81	5.96	-.14	3.13	3.39	-.26	4.77	3.92	.85	.784	.326	.843	19.37
37.	6.04	6.35	-.31	3.05	3.48	-.43	4.72	4.17	.55	.784	.375	.862	20.75
38.	6.55	6.76	-.21	3.18	3.57	-.39	5.11	4.44	.68	.803	.418	.877	22.20
39.	7.25	7.18	.07	3.45	3.77	-.32	5.28	4.71	.57	.804	.424	.879	22.57
40.	7.02	7.62	-.59	3.64	4.00	-.36	5.51	5.00	.51	.804	.424	.880	22.85
41.	7.49	8.07	-.59	3.92	4.16	-.24	5.99	5.37	.61	.798	.425	.885	23.20
42.	8.13	8.54	-.40	3.80	4.16	-.36	6.32	5.72	.60	.809	.480	.904	25.43
43.	8.59	9.00	-.41	3.79	4.14	-.34	6.61	6.01	.60	.833	.559	.925	28.87
44.	8.94	9.48	-.54	3.92	4.23	-.31	6.81	6.25	.56	.855	.620	.937	32.14
45.	9.39	9.97	-.58	4.09	4.30	-.21	7.06	6.57	.48	.871	.668	.947	35.54
46.	9.79	10.46	-.67	3.78	4.21	-.43	7.27	7.12	.15	.869	.687	.956	39.01
47.	10.26	10.93	-.67	3.55	4.10	-.55	7.68	7.75	-.07	.851	.672	.961	38.66
48.	10.58	11.39	-.81	3.53	4.12	-.59	8.13	8.23	-.10	.842	.665	.963	39.15
49.	11.01	11.84	-.83	3.59	4.17	-.58	8.56	8.62	-.06	.845	.677	.966	40.86
50.	11.38	12.30	-.91	3.47	4.15	-.68	9.03	9.15	-.12	.830	.662	.968	41.24
51.	11.85	12.73	-.88	3.34	4.10	-.76	9.52	9.79	-.27	.795	.615	.967	39.37
52.	12.35	13.14	-.79	3.25	4.04	-.79	9.92	10.36	-.43	.770	.587	.969	39.00
53.	12.71	13.54	-.84	3.06	3.92	-.86	10.58	10.87	-.29	.760	.587	.972	40.50
54.	13.21	13.93	-.72	2.91	3.79	-.88	11.27	11.32	-.05	.758	.598	.976	42.71
55.	13.48	14.31	-.83	2.80	3.75	-.95	11.62	11.72	-.10	.758	.605	.978	44.13
56.	13.97	14.69	-.72	2.89	3.87	-.98	12.38	11.96	.42	.773	.627	.979	44.49
57.	14.51	15.09	-.58	3.03	4.14	-1.11	13.17	12.56	.61	.797	.647	.977	37.63
58.	15.59	15.51	.08	3.19	4.39	-1.20	14.35	12.60	1.75	.741	.564	.972	38.51
59.	17.29	15.97	1.32	3.24	4.51	-1.26	15.81	12.75	3.05	.783	.628	.976	41.30
60.	18.02	16.46	1.56	3.17	4.50	-1.33	16.23	13.23	3.01	.786	.647	.978	42.55
61.	18.80	16.95	1.85	3.26	4.47	-1.20	16.82	13.84	2.98	.784	.612	.978	41.80
62.	19.50	17.42	2.08	3.14	4.39	-1.25	17.56	14.45	3.12	.746	.596	.979	41.88
63.	20.07	17.88	2.19	3.24	4.43	-1.19	18.18	14.99	3.19	.726	.570	.979	40.98
64.	21.16	18.35	2.81	3.47	4.56	-1.09	19.07	15.50	3.57	.699	.533	.978	39.69
65.	21.38	18.81	2.57	3.57	4.64	-1.06	19.70	16.02	3.68	.690	.519	.977	37.77
66.	21.63	19.27	2.36	3.74	4.66	-.92	20.28	16.54	3.74	.665	.494	.978	37.33
67.	21.84	19.72	2.12	3.73	4.51	-.78	21.88	17.17	3.71	.642	.475	.980	37.91
68.	22.03	19.37	2.66	3.49	4.22	-.74	21.13	18.17	2.95	.583	.476	.977	32.59
69.	23.60	20.58	3.02	3.45	4.05	-.60	21.42	18.44	2.98	.594	.448	.984	40.90
70.	22.35	20.95	1.40	3.64	4.16	-.52	21.72	18.95	2.77	.557	.396	.984	38.88
71.	22.50	21.29	1.21	4.04	4.47	-.43	22.07	19.58	2.50	.473	.286	.980	34.34
72.	22.65	21.59	1.06	4.53	4.77	-.24	20.39	20.45	1.95	.344	.129	.977	30.33
73.	22.75	21.80	.95	4.53	4.72	-.19	20.83	21.32	1.51	.219	-.008	.976	29.40
74.	22.80	21.88	.91	4.13	4.53	-.40	23.46	22.26	1.20	.020	-.184	.979	28.83
75.	22.67	21.81	.86	4.50	4.72	-.22	24.16	23.25	.91	-.207	-.397	.980	28.91
76.	22.39	21.58	.81	5.08	5.15	-.08	24.92	23.92	1.00	-.359	-.540	.980	27.19
77.	21.95	21.24	.72	5.39	5.49	-.09	25.42	24.07	1.35	-.421	-.600	.978	25.72
78.	21.45	20.82	.66	5.64	5.70	-.06	25.37	24.02	1.35	-.467	-.642	.978	24.80
79.	20.93	20.35	.58	5.86	5.88	-.02	24.83	23.92	.91	-.516	-.685	.978	24.19
80.	20.16	19.80	.35	6.12	6.17	-.05	24.49	23.79	.69	-.556	-.722	.977	22.96
81.	19.43	19.18	.25	6.71	6.69	.02	24.24	23.71	.53	-.583	-.753	.973	20.76
82.	18.68	18.50	.19	7.48	7.21	.28	24.18	23.44	.73	-.583	-.768	.968	18.50
83.	18.16	17.76	.40	7.54	7.38	.16	23.25	22.89	.36	-.587	-.778	.965	17.32
84.	17.48	17.01	.47	7.45	7.58	-.13	22.94	22.33	.61	-.589	-.788	.962	16.00
85.	15.82	16.18	-.36	8.52	8.58	-.06	21.94	22.39	-.45	-.597	-.815	.952	13.56
86.	15.00	15.18	-.19	10.45	10.03	.82	23.60	22.91	.30	-.636	-.859	.941	11.25
87.	13.38	14.02	-.65	11.35	10.97	.37	23.21	22.62	.41	-.632	-.877	.937	9.46
88.	12.48	12.87	-.39	11.57	11.17	.40	21.08	21.29	-.21	-.566	-.867	.902	8.01
89.	11.71	11.88	-.17	11.00	11.44	-.44	19.33	19.70	-.37	-.426	-.838	.851	6.50
90.	10.70	11.25	-.55	12.65	12.58	.06	18.27	18.36	-.09	-.184	-.798	.759	5.22

MONTH = 10 LATITUDE = 30

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RET	RTD	RPD	DEPOW
22.	3.46	4.00	-.54	2.08	2.10	-.03	3.77	3.72	.05	.390	-.145	.864	12.06
23.	3.86	4.10	-.24	2.08	2.12	-.04	4.25	4.16	.09	.233	-.278	.869	13.49
24.	4.56	4.14	.42	2.06	2.12	-.06	4.73	4.68	.06	-.013	-.465	.891	12.11
25.	5.14	4.09	1.05	2.16	2.11	.05	5.29	5.10	.19	-.280	-.638	.910	12.41
26.	4.80	3.99	.81	2.10	2.09	.01	5.01	5.06	-.05	-.321	-.665	.921	12.41
27.	4.04	3.93	.11	2.19	2.04	.15	4.46	4.50	-.04	-.041	-.490	.891	11.89
28.	3.13	3.98	-.85	1.93	1.99	-.06	3.56	3.79	-.22	.343	-.164	.870	10.16
29.	3.32	4.11	-.80	1.85	1.98	-.04	3.44	3.51	-.07	.524	.059	.877	10.38
30.	3.78	4.28	-.50	1.89	2.05	-.17	4.04	3.73	.31	.491	.012	.877	10.91
31.	3.56	4.44	-.88	2.06	2.17	-.11	4.38	3.92	.46	.469	-.022	.872	10.58
32.	3.58	4.63	-1.05	2.03	2.36	-.32	4.40	3.81	.59	.570	.074	.861	10.16
33.	3.43	4.88	-1.46	2.36	2.59	-.23	4.20	3.47	.73	.731	.281	.860	10.68
34.	3.24	5.22	-1.98	2.15	2.96	-.81	3.77	3.23	.54	.820	.454	.858	10.36
35.	5.23	5.63	-.40	3.03	3.53	-.50	4.69	3.40	1.29	.891	.622	.865	10.24
36.	6.21	6.10	.11	3.37	3.91	-.54	5.05	3.78	1.27	.930	.755	.784	10.10
37.	6.60	6.57	.03	3.40	3.95	-.55	4.97	4.12	.84	.806	.825	.893	10.04
38.	7.09	7.05	.04	3.47	4.01	-.54	5.36	4.47	.89	.811	.383	.851	20.23
39.	7.92	7.54	.37	3.77	4.19	-.42	5.55	4.82	.73	.810	.389	.861	20.57
40.	7.64	8.05	-.41	3.98	4.42	-.44	5.81	5.21	.60	.797	.403	.874	21.72
41.	8.18	8.57	-.40	4.29	4.55	-.26	6.37	5.66	.72	.817	.483	.903	24.78
42.	8.79	9.09	-.30	4.08	4.49	-.40	6.70	6.01	.68	.852	.596	.929	29.60
43.	9.23	9.62	-.38	4.06	4.45	-.39	6.81	6.28	.53	.867	.641	.938	33.27
44.	9.63	10.16	-.52	4.26	4.59	-.33	7.19	6.59	.61	.866	.649	.942	34.56
45.	10.16	10.71	-.54	4.49	4.71	-.22	7.47	7.04	.43	.856	.654	.951	34.06
46.	10.62	11.25	-.63	4.10	4.61	-.51	7.66	7.68	-.01	.852	.670	.960	37.56
47.	11.15	11.77	-.62	3.80	4.46	-.65	8.17	8.30	-.13	.855	.687	.964	39.63
48.	11.51	12.28	-.77	3.89	4.47	-.65	8.69	8.77	-.08	.841	.669	.964	39.29
49.	11.97	12.79	-.82	3.90	4.55	-.65	9.15	9.29	-.14	.824	.652	.966	39.58
50.	12.38	13.29	-.91	3.76	4.53	-.77	9.67	9.88	-.21	.813	.654	.970	40.62
51.	12.90	13.77	-.87	3.60	4.44	-.84	10.22	10.45	-.23	.791	.622	.971	39.86
52.	13.47	14.25	-.78	3.51	4.35	-.83	10.66	11.13	-.47	.766	.599	.974	40.28
53.	13.86	14.70	-.83	3.28	4.18	-.91	11.43	11.80	-.38	.762	.610	.978	42.70
54.	14.44	15.12	-.68	3.07	3.98	-.91	12.18	12.36	-.18	.753	.611	.983	44.43
55.	14.75	15.53	-.78	2.85	3.84	-.99	12.59	12.88	-.30	.652	.471	.976	37.80
56.	15.30	15.91	-.61	2.90	3.92	-1.03	13.44	13.68	-.24	.698	.517	.976	37.86
57.	15.88	16.30	-.42	3.01	4.15	-1.14	14.32	13.75	.57	.737	.573	.976	38.41
58.	17.07	16.74	.33	3.21	4.42	-1.20	15.63	13.81	1.82	.774	.631	.979	40.71
59.	18.90	17.24	1.66	3.24	4.51	-1.28	17.15	14.03	3.12	.753	.604	.979	39.51
60.	19.69	17.76	1.94	3.20	4.52	-1.32	17.60	14.65	2.94	.745	.596	.979	38.81
61.	20.54	18.26	2.27	3.41	4.59	-1.18	18.24	15.17	3.07	.743	.600	.981	38.57
62.	21.18	18.80	2.38	3.25	4.53	-1.28	18.99	15.73	3.26	.718	.562	.981	38.07
63.	21.79	19.33	2.47	3.31	4.55	-1.24	19.66	16.40	3.26	.678	.513	.979	35.05
64.	22.88	19.84	3.04	3.67	4.76	-1.10	20.52	16.97	3.55	.665	.495	.978	33.90
65.	23.15	20.37	2.77	3.81	4.89	-1.08	21.18	17.50	3.67	.657	.490	.979	33.81
66.	23.42	20.91	2.51	3.97	4.89	-.92	21.74	18.08	3.70	.643	.486	.982	35.38
67.	23.67	21.43	2.24	3.88	4.65	-.77	22.45	18.79	3.66	.676	.564	.986	39.57
68.	23.91	21.94	1.97	3.56	4.34	-.78	22.72	19.28	3.46	.543	.388	.985	35.78
69.	26.09	22.40	3.69	3.79	4.23	-.44	23.07	20.41	2.65	.522	.370	.985	35.82
70.	24.29	22.80	1.50	3.62	4.17	-.55	23.60	20.92	2.47	.434	.265	.987	33.08
71.	24.49	23.16	1.33	4.01	4.37	-.36	23.81	21.62	2.20	.276	.041	.989	29.70
72.	24.64	23.44	1.24	4.51	4.64	-.13	24.15	22.60	1.56	.095	-.095	.992	29.98
73.	24.81	23.59	1.22	4.42	4.49	-.07	24.70	23.59	1.11	-.178	-.341	.996	32.40
74.	24.68	23.56	1.31	3.82	4.22	-.40	25.43	24.67	.76	-.412	-.552	.997	32.98
75.	24.78	23.34	1.44	4.36	4.48	-.12	26.22	25.51	.71	-.464	-.610	.995	30.85
76.	24.48	22.98	1.50	5.07	5.00	.08	27.09	25.69	1.40	-.496	-.639	.994	30.80
77.	24.01	22.58	1.43	5.29	5.29	.00	27.67	25.59	2.08	-.526	-.672	.993	30.12
78.	23.51	22.14	1.37	5.52	5.46	.06	27.64	25.44	2.20	-.495	-.656	.991	28.34
79.	22.95	21.70	1.25	5.79	5.63	.14	27.12	24.98	2.14	-.481	-.652	.990	28.04
80.	22.08	21.28	.80	6.00	5.83	.18	26.86	24.61	2.25	-.514	-.689	.990	28.23
81.	21.22	20.82	.40	6.33	5.28	.04	25.58	24.65	1.53	-.565	-.739	.993	22.60
82.	20.45	20.27	.18	7.59	6.90	.68	26.55	24.83	1.72	-.587	-.762	.991	20.81
83.	18.16	19.62	-1.46	7.69	7.19	.50	25.45	24.54	.90	-.571	-.761	.987	18.56
84.	19.06	18.93	.14	7.54	7.45	.09	25.00	23.97	1.02	-.602	-.803	.959	15.40
85.	17.32	18.13	-.81	8.80	8.58	.22	23.98	24.28	-.30	-.662	-.850	.952	12.91
86.	16.35	17.10	-.75	11.60	10.25	1.35	24.88	25.09	-.26	-.647	-.887	.945	11.13
87.	14.43	15.85	-1.42	12.13	11.29	.84	24.34	24.99	-.65	-.695	-.899	.940	10.20
88.	13.28	14.49	-1.21	12.29	11.34	.95	23.06	23.82	-.75	-.571	-.867	.904	8.08
89.	12.22	13.23	-1.01	11.20	11.38	-.18	20.96	21.82	-.87	-.275	-.787	.800	5.97
90.	10.99	12.36	-1.36	12.44	12.28	.16	19.43	19.67	-.24				

MONTH = 11 LATITUDE = 10
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE ORIG	PRESSURE NEW	PRESSURE DIF	TEMPERATURE ORIG	TEMPERATURE NEW	TEMPERATURE DIF	DENSITY ORIG	DENSITY NEW	DENSITY DIF	CORRELATION COEFFICIENTS RPT	RTO	ROD	DEPTH
22.	.74	1.30	-.56	.64	.68	-.05	1.20	1.10	.10	.532	.011	.852	14.01
23.	.83	1.38	-.55	1.24	1.22	.02	1.51	1.32	.20	.494	-.411	.590	8.17
24.	.97	1.49	-.51	1.34	1.48	-.14	1.67	1.49	.19	.498	-.499	.503	7.38
25.	1.68	1.59	.09	1.37	1.50	-.13	2.07	1.70	.36	.394	-.512	.587	7.47
26.	1.71	1.67	.04	1.29	1.43	-.13	2.04	1.81	.23	.327	-.487	.667	8.09
27.	1.67	1.75	-.08	1.25	1.43	-.18	1.95	1.81	.15	.366	-.436	.678	8.70
28.	1.75	1.83	-.09	1.47	1.52	-.04	2.01	1.83	.18	.417	-.411	.657	8.88
29.	1.72	1.93	-.21	1.43	1.57	-.14	2.02	1.86	.15	.449	-.377	.669	9.31
30.	1.82	2.04	-.22	1.49	1.61	-.12	2.11	1.90	.21	.475	-.333	.668	9.89
31.	1.86	2.16	-.31	1.53	1.69	-.16	2.12	1.89	.24	.544	-.278	.661	10.56
32.	1.91	2.31	-.40	1.63	1.76	-.14	2.04	1.88	.16	.603	-.197	.663	11.48
33.	2.18	2.46	-.29	1.61	1.78	-.17	2.27	1.95	.32	.618	-.133	.697	12.40
34.	2.26	2.61	-.36	1.56	1.77	-.20	2.33	2.11	.22	.595	-.101	.739	13.13
35.	2.83	2.75	.08	1.62	1.77	-.15	2.72	2.36	.36	.527	-.137	.777	13.20
36.	2.86	2.87	-.01	1.63	1.77	-.14	2.89	2.60	.30	.455	-.177	.796	13.30
37.	2.99	2.98	.01	1.62	1.73	-.11	2.99	2.72	.27	.433	-.164	.818	14.06
38.	3.04	3.08	-.03	1.60	1.72	-.12	2.94	2.79	.15	.438	-.132	.833	14.83
39.	3.11	3.18	-.07	1.68	1.76	-.12	3.10	2.90	.21	.431	-.135	.836	15.04
40.	3.19	3.28	-.09	1.79	1.83	-.04	3.16	2.99	.18	.433	-.138	.833	15.13
41.	3.27	3.39	-.11	1.74	1.82	-.07	3.19	3.07	.13	.436	-.112	.846	15.86
42.	3.37	3.49	-.11	1.66	1.76	-.09	3.36	3.22	.14	.395	-.118	.865	16.67
43.	3.48	3.56	-.08	1.66	1.74	-.08	3.60	3.40	.20	.334	-.162	.876	16.93
44.	3.60	3.64	-.04	1.70	1.78	-.08	3.67	3.53	.14	.303	-.192	.877	16.80
45.	3.60	3.70	-.11	1.80	1.86	-.06	3.76	3.63	.14	.292	-.213	.872	16.49
46.	3.83	3.77	.05	1.87	1.91	-.04	3.85	3.72	.14	.278	-.230	.871	16.28
47.	3.88	3.84	.04	1.86	1.90	-.05	3.91	3.80	.12	.268	-.229	.876	16.69
48.	3.90	3.90	-.00	1.82	1.87	-.05	3.95	3.86	.09	.262	-.219	.884	17.22
49.	4.02	3.96	.06	1.81	1.88	-.07	4.00	3.91	.09	.264	-.212	.887	17.51
50.	4.03	4.03	-.01	1.92	2.02	-.10	4.01	3.92	.09	.306	-.200	.871	16.83
51.	4.12	4.12	-.00	2.29	2.17	.12	3.92	3.88	.04	.373	-.165	.854	16.32
52.	4.17	4.23	-.06	2.07	2.15	-.08	3.90	3.86	.04	.416	-.108	.863	17.25
53.	4.22	4.34	-.12	2.04	2.03	.01	3.97	3.91	.06	.437	-.034	.884	18.86
54.	4.26	4.45	-.19	1.85	1.93	-.08	4.04	3.97	.07	.456	.023	.901	20.44
55.	4.34	4.56	-.22	1.85	1.91	-.06	4.11	4.04	.07	.468	.056	.909	21.20
56.	4.42	4.68	-.26	1.92	1.97	-.05	4.26	4.15	.11	.464	.049	.907	20.78
57.	4.54	4.80	-.26	1.99	2.05	-.06	4.43	4.26	.17	.462	.039	.904	20.24
58.	4.59	4.93	-.34	2.06	2.12	-.06	4.49	4.31	.18	.490	.069	.904	20.16
59.	4.71	5.07	-.36	2.08	2.23	-.16	4.50	4.46	.04	.478	.043	.898	19.30
60.	5.05	5.21	-.16	2.36	2.44	-.08	5.16	4.78	.38	.403	-.072	.884	17.18
61.	5.13	5.34	-.21	2.54	2.67	-.12	5.27	5.08	.19	.344	-.163	.870	15.42
62.	5.42	5.46	-.04	2.70	2.85	-.14	5.78	5.39	.39	.267	-.237	.862	14.19
63.	5.97	5.97	.00	2.82	3.00	-.17	6.08	5.68	.40	.232	-.300	.858	13.31
64.	6.05	6.68	.37	3.01	3.10	-.10	6.20	5.71	.49	.265	-.281	.851	12.94
65.	6.69	6.83	.07	3.02	3.19	-.18	6.56	5.80	.05	.373	-.185	.843	13.19
66.	6.07	6.03	.04	3.25	3.42	-.16	6.63	5.52	.12	.428	-.152	.829	12.75
67.	6.42	6.26	.15	3.71	3.73	-.02	6.00	5.81	.20	.416	-.193	.812	11.73
68.	6.63	6.51	.11	3.85	3.92	-.07	6.25	6.11	.13	.399	-.215	.809	11.20
69.	6.84	6.77	.07	3.93	4.07	-.14	6.50	6.46	.05	.375	-.238	.812	10.76
70.	7.12	7.02	.10	4.32	4.35	-.03	7.01	6.94	.06	.328	-.295	.806	10.00
71.	7.28	7.24	.04	4.61	4.59	.02	7.56	7.47	.09	.267	-.356	.806	9.58
72.	7.53	7.42	.11	4.66	4.65	.01	8.02	7.95	.07	.197	-.401	.819	9.53
73.	7.66	7.55	.11	4.56	4.65	-.09	8.38	8.39	-.01	.117	-.449	.835	9.61
74.	7.76	7.62	.14	4.78	4.81	-.03	8.88	8.76	.11	.060	-.497	.837	9.38
75.	7.79	7.68	.11	5.12	5.06	.06	8.91	8.83	.08	.085	-.499	.821	9.00
76.	7.81	7.80	.01	5.28	5.25	.04	8.54	8.52	.03	.194	-.438	.797	8.96
77.	8.11	8.04	.07	5.37	5.44	-.07	7.96	8.10	-.14	.327	-.367	.773	9.25
78.	8.49	8.39	.09	5.82	5.58	.23	7.82	7.86	-.05	.424	-.257	.766	9.81
79.	8.94	8.81	.12	5.43	5.43	-.00	7.71	7.87	-.15	.473	-.161	.794	10.80
80.	8.14	9.23	-1.10	5.10	5.25	-.14	8.13	8.24	-.11	.462	-.119	.825	11.79
81.	9.75	9.61	.14	5.26	5.37	-.11	8.16	8.99	.17	.391	-.179	.835	11.55
82.	9.98	9.94	.04	5.62	5.57	.05	8.93	9.71	.22	.322	-.245	.840	11.20
83.	10.29	10.23	.06	5.53	5.72	-.18	10.24	10.16	.08	.292	-.269	.843	11.12
84.	10.60	10.53	.07	5.99	6.01	-.01	10.56	10.32	.24	.320	-.256	.834	11.00
85.	10.98	10.92	.06	6.36	6.58	-.22	10.18	10.24	-.06	.402	-.214	.808	10.77
86.	11.41	11.44	-.03	7.49	7.41	.07	10.21	10.26	-.05	.475	-.192	.772	10.28
87.	12.06	12.09	-.04	8.20	8.02	.18	10.58	10.63	-.04	.503	-.182	.758	10.11
88.	12.83	12.80	.02	8.09	8.30	-.21	11.27	11.27	.00	.498	-.171	.769	10.20
89.	13.60	13.56	.04	8.74	8.10	-.37	12.09	12.03	.06	.496	-.208	.753	9.73
90.	14.59	14.46	.13	10.79	10.80	-.01	12.77	12.76	.01	.522	-.255	.692	8.89

MONTH = 11 LATITUDE = 36

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RDD	DEPTH
22.	1.33	2.58	-1.26	2.28	2.51	-.23	1.82	1.62	.20	.797	-.277	.359	10.68
23.	1.51	2.90	-1.40	1.77	2.39	-.62	1.11	1.52	.59	.859	.058	.571	14.73
24.	1.58	3.25	-1.67	1.75	2.59	-.84	1.95	1.42	.53	.906	.252	.637	16.96
25.	1.81	3.62	-1.81	1.52	2.65	-1.13	1.97	1.57	.39	.921	.439	.755	22.60
26.	4.57	3.99	.57	1.61	2.54	-.94	4.58	1.93	2.65	.920	.585	.857	25.78
27.	4.61	4.35	.26	1.66	2.50	-.84	4.59	2.31	2.28	.913	.637	.897	27.41
28.	4.65	4.71	-.06	1.73	2.64	-.92	4.44	2.62	1.82	.896	.694	.895	25.99
29.	4.67	5.09	-.43	1.88	2.83	-.96	4.65	2.90	1.75	.885	.577	.891	24.86
30.	4.70	5.48	-.78	1.83	2.81	-.98	4.74	3.39	1.35	.858	.558	.885	24.43
31.	4.81	5.84	-1.03	1.91	2.79	-.88	4.93	3.80	1.12	.842	.558	.918	25.28
32.	5.04	6.21	-1.17	1.85	2.92	-1.08	4.96	4.01	.95	.856	.597	.926	27.28
33.	5.25	6.61	-1.36	1.99	3.19	-1.20	5.23	4.17	1.06	.864	.603	.923	27.66
34.	5.54	7.03	-1.49	2.13	3.53	-1.40	5.56	4.35	1.21	.865	.587	.913	27.20
35.	5.89	7.58	-1.61	2.16	3.85	-1.69	5.80	4.45	1.35	.884	.632	.918	29.56
36.	6.09	8.02	-1.93	2.21	4.17	-1.96	6.02	4.56	1.46	.910	.685	.925	32.71
37.	6.30	8.57	-2.27	2.37	4.45	-2.08	6.32	5.02	1.30	.892	.635	.916	30.35
38.	15.30	8.56	6.73	2.61	4.46	-1.85	15.42	5.47	9.95	.828	.480	.890	24.75
39.	15.27	8.99	6.28	2.53	4.28	-1.74	15.32	6.18	9.15	.793	.462	.907	25.26
40.	15.25	9.69	5.57	2.54	4.05	-1.52	14.47	7.17	7.30	.749	.445	.927	26.67
41.	15.24	10.76	4.48	2.55	3.84	-1.29	15.34	7.73	7.61	.857	.696	.867	40.56
42.	15.32	10.75	4.56	2.56	3.68	-1.11	15.11	8.76	6.35	.664	.396	.949	29.54
43.	15.43	11.67	3.87	2.59	3.54	-.95	15.89	9.18	6.71	.758	.570	.968	38.20
44.	15.68	11.91	3.77	2.63	3.42	-.77	16.04	9.62	6.42	.749	.571	.972	40.43
45.	15.84	12.18	3.65	2.71	3.31	-.60	15.84	10.94	4.90	.491	.244	.965	32.86
46.	16.07	12.31	3.76	2.63	3.13	-.50	16.29	12.31	3.98	.129	-.125	.968	31.01
47.	16.22	12.28	3.94	2.52	2.91	-.39	16.38	13.46	2.91	-.309	-.498	.979	34.88
48.	16.33	12.15	4.17	2.43	2.72	-.30	17.29	13.46	3.83	-.395	-.559	.983	38.26
49.	16.53	12.52	4.01	2.37	2.55	-.18	16.46	13.04	3.42	-.105	-.207	.981	34.98
50.	16.99	12.44	4.55	2.26	2.45	-.19	17.16	12.86	4.30	-.077	-.265	.982	40.45
51.	17.13	11.64	5.49	2.51	2.43	.07	17.23	12.99	4.24	-.481	-.619	.986	42.95
52.	17.51	11.99	5.52	2.51	2.38	.13	17.73	12.43	5.30	-.087	-.275	.982	39.70
53.	17.87	11.92	5.95	2.53	2.33	.19	17.66	12.32	5.34	-.075	-.262	.982	39.87
54.	18.13	11.80	6.33	2.97	2.29	.68	17.89	12.16	5.73	-.063	-.249	.982	40.11
55.	18.68	11.66	7.02	2.83	2.04	.79	18.91	11.81	7.09	.013	-.160	.985	44.12
56.	9.28	10.73	-1.45	2.93	1.76	1.08	8.99	11.60	-2.61	-.437	-.555	.991	51.83
57.	9.17	10.63	-1.47	2.87	1.76	1.11	8.82	11.37	-2.54	-.347	-.480	.989	48.62
58.	9.16	10.56	-1.40	2.98	1.95	1.04	9.08	11.23	-2.23	-.266	-.423	.986	42.00
59.	9.39	10.48	-1.09	2.87	2.18	.69	9.28	11.30	-2.02	-.284	-.457	.983	36.92
60.	9.95	10.37	-.42	3.23	2.31	.92	9.67	11.60	-1.93	-.454	-.605	.984	36.66
61.	10.33	10.21	.12	3.09	2.44	.65	10.12	11.68	-1.56	-.531	-.672	.984	35.43
62.	9.65	10.06	-.41	3.32	2.61	.71	9.21	11.17	-1.96	-.317	-.520	.975	28.74
63.	9.75	9.97	-.22	3.84	2.87	.97	9.11	10.74	-1.63	-.135	-.392	.969	24.53
64.	9.83	9.92	-.09	3.68	2.88	.81	9.13	10.66	-1.53	-.123	-.384	.963	24.00
65.	9.81	9.89	-.84	3.09	2.75	.34	9.38	10.77	-1.38	-.218	-.449	.968	25.82
66.	9.07	9.76	-.69	3.40	2.94	.46	9.58	10.79	-1.22	-.221	-.472	.964	22.81
67.	9.14	9.67	-.53	3.86	3.33	.53	9.76	10.76	-.99	-.173	-.465	.952	19.40
68.	9.11	9.58	-.47	3.97	3.47	.50	9.87	10.71	-.84	-.166	-.472	.948	18.21
69.	9.12	9.48	-.36	3.53	3.54	-.01	9.99	10.71	-.73	-.104	-.493	.946	17.48
70.	9.19	9.37	-.19	9.22	3.95	.28	10.25	10.84	-.59	-.190	-.528	.934	15.20
71.	9.15	9.25	-.10	4.70	4.56	.24	10.58	11.00	-.42	-.174	-.561	.913	12.92
72.	9.18	9.13	.05	5.34	5.07	.26	10.64	11.03	-.39	-.134	-.571	.880	11.28
73.	9.20	9.04	.17	5.71	4.48	.23	10.53	10.97	-.43	-.096	-.571	.867	10.19
74.	9.27	8.98	.30	6.03	5.83	.19	10.61	10.96	-.35	-.054	-.576	.847	9.38
75.	9.20	8.94	.26	6.45	6.14	.31	10.61	10.97	-.36	-.024	-.581	.829	8.78
76.	9.04	8.93	.12	6.53	6.32	.21	10.59	10.89	-.30	.010	-.573	.814	8.43
77.	9.17	8.96	.21	6.68	6.37	.30	10.37	10.74	-.37	.049	-.553	.805	8.36
78.	9.06	9.02	.04	6.46	6.25	.21	10.32	10.63	-.32	.065	-.532	.810	8.51
79.	9.05	9.10	-.05	6.19	6.08	.11	10.31	10.48	-.17	.090	-.502	.816	8.80
80.	8.80	9.22	-.42	6.13	6.26	-.13	9.94	10.44	-.50	.130	-.484	.805	8.66
81.	9.52	9.37	.15	7.07	6.69	.38	10.80	10.76	.05	.134	-.505	.788	8.19
82.	9.19	9.53	-.33	6.86	6.80	.06	10.89	10.89	.00	.143	-.500	.786	8.16
83.	9.37	9.73	-.36	6.67	6.80	-.13	10.56	10.66	-.09	.207	-.449	.781	8.48
84.	9.55	10.04	-.50	7.06	6.97	.09	10.50	10.30	.20	.309	-.375	.765	8.60
85.	10.34	10.49	-.15	6.97	7.10	-.14	9.84	9.95	-.11	.413	-.279	.760	8.38
86.	10.95	11.03	-.08	7.15	7.29	-.14	9.80	10.14	-.34	.448	-.231	.766	8.66
87.	11.58	11.57	.00	7.59	7.45	.13	11.17	11.04	.12	.392	-.264	.784	8.68
88.	12.17	12.03	.14	7.18	7.83	-.64	12.30	12.29	.00	.291	-.359	.793	8.12
89.	12.79	12.43	.36	9.11	8.42	-.31	13.81	13.70	.11	.236	-.473	.744	7.71
90.	13.05	12.91	.14	12.10	12.11	-.01	15.15	15.13	.02	.270	-.570	.637	6.20

MONTH = 11 LATITUDE = 50
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	R&T	RTD	R&D	DEPTH
22.	1.50	1.96	-.46	1.42	1.46	-.04	1.92	1.87	.05	.433	-.325	.712	9.45
23.	2.06	2.08	-.02	1.74	1.68	.06	2.02	1.91	.11	.501	-.332	.650	9.11
24.	2.13	2.22	-.09	1.66	1.75	-.09	1.86	1.88	-.02	.574	-.252	.648	9.85
25.	2.34	2.39	-.05	1.80	1.80	-.00	1.97	1.92	.05	.614	-.175	.669	10.71
26.	2.48	2.57	-.09	1.80	1.86	-.05	2.05	1.97	.07	.646	-.068	.696	11.58
27.	2.67	2.77	-.10	1.85	1.91	-.06	2.02	2.00	.02	.694	.015	.723	12.83
28.	2.83	2.99	-.15	1.96	1.98	-.02	2.10	2.05	.05	.730	.066	.751	14.13
29.	3.12	3.21	-.09	1.95	1.98	-.03	2.22	2.22	-.00	.734	.172	.796	15.34
30.	3.29	3.43	-.14	1.83	1.91	-.08	2.60	2.51	.09	.694	.146	.847	16.04
31.	3.48	3.63	-.15	1.81	1.92	-.10	2.96	2.84	.12	.630	.130	.852	15.76
32.	3.57	3.81	-.24	1.97	2.04	-.07	3.22	3.10	.13	.585	.061	.845	14.97
33.	3.73	4.00	-.27	2.13	2.22	-.09	3.44	3.30	.14	.565	.013	.839	14.27
34.	3.78	4.19	-.41	2.29	2.40	-.11	3.67	3.52	.14	.543	-.034	.821	13.67
35.	4.12	4.39	-.27	2.45	2.57	-.12	4.04	3.84	.20	.494	-.105	.813	12.99
36.	4.42	4.57	-.16	2.61	2.74	-.13	4.46	4.18	.27	.436	-.178	.808	12.48
37.	4.54	4.75	-.21	2.76	2.89	-.13	4.71	4.45	.26	.405	-.218	.804	12.14
38.	4.62	4.93	-.31	2.90	3.01	-.10	4.88	4.59	.30	.414	-.211	.803	12.27
39.	4.86	5.12	-.26	2.90	3.04	-.14	4.87	4.58	.29	.465	-.144	.809	13.14
40.	4.83	5.34	-.51	2.87	3.07	-.21	4.73	4.55	.19	.527	-.057	.818	14.30
41.	5.38	5.58	-.23	3.03	3.18	-.14	4.93	4.63	.30	.559	-.012	.822	14.94
42.	5.56	5.83	-.28	3.11	3.28	-.17	5.07	4.88	.20	.548	-.016	.827	15.20
43.	5.99	6.08	-.10	3.19	3.34	-.15	5.62	5.16	.46	.530	-.023	.835	15.44
44.	6.21	6.33	-.12	3.24	3.40	-.16	5.49	5.29	.20	.551	.018	.844	16.28
45.	6.45	6.60	-.15	3.32	3.47	-.16	5.63	5.40	.23	.576	.061	.851	17.15
46.	6.68	6.87	-.19	3.44	3.53	-.09	5.88	5.62	.26	.578	.079	.859	17.68
47.	6.90	7.15	-.25	3.35	3.48	-.13	6.11	5.83	.29	.586	.124	.876	18.88
48.	7.12	7.42	-.30	3.24	3.35	-.11	6.21	6.00	.21	.609	.195	.897	20.86
49.	7.43	7.69	-.26	3.06	3.20	-.14	6.50	6.21	.29	.626	.260	.916	23.10
50.	7.66	7.95	-.29	2.95	3.11	-.16	6.70	6.47	.24	.628	.294	.928	24.88
51.	7.92	8.21	-.29	3.00	3.12	-.13	7.07	6.75	.32	.617	.287	.931	25.11
52.	8.12	8.47	-.35	3.08	3.17	-.10	7.33	7.01	.32	.607	.280	.933	25.15
53.	8.29	8.73	-.43	3.05	3.22	-.17	7.56	7.25	.31	.604	.283	.935	25.50
54.	8.48	8.99	-.51	3.17	3.35	-.18	7.90	7.50	.39	.593	.264	.933	24.87
55.	8.71	9.26	-.55	3.44	3.52	-.09	8.15	7.74	.41	.537	.247	.930	24.22
56.	8.96	9.54	-.58	3.40	3.59	-.19	8.42	7.96	.47	.594	.261	.932	24.38
57.	9.15	9.84	-.69	3.40	3.60	-.20	8.69	8.16	.53	.609	.293	.937	25.22
58.	9.28	10.14	-.87	3.41	3.65	-.24	8.99	8.39	.60	.620	.314	.940	25.60
59.	9.61	10.47	-.86	3.49	3.69	-.20	9.41	8.48	.93	.664	.385	.946	27.23
60.	9.88	10.83	-.95	3.37	3.73	-.36	9.02	8.55	.47	.719	.475	.953	28.72
61.	10.29	11.21	-.92	3.57	3.88	-.30	10.08	8.97	1.12	.694	.436	.950	28.23
62.	10.90	11.59	-.69	3.70	4.07	-.38	10.69	9.54	1.16	.635	.345	.944	25.56
63.	11.52	11.95	-.43	3.83	4.16	-.34	11.56	10.10	1.46	.595	.280	.942	24.33
64.	11.97	12.27	-.31	3.68	4.14	-.46	12.16	10.93	1.23	.475	.155	.943	22.88
65.	13.19	12.51	.68	3.79	4.14	-.34	13.63	11.95	1.68	.297	-.035	.944	21.39
66.	13.24	12.65	.59	3.87	4.22	-.35	13.84	12.67	1.17	.163	-.170	.945	20.30
67.	13.24	12.73	.50	4.13	4.31	-.18	14.01	13.06	.96	.094	-.239	.944	19.63
68.	13.16	12.77	.39	4.11	4.23	-.12	14.08	13.35	.73	.027	-.291	.948	19.79
69.	13.09	12.77	.32	3.77	4.15	-.38	14.17	13.61	.56	-.047	-.349	.952	20.01
70.	13.08	12.72	.36	4.32	4.45	-.14	14.34	13.89	.45	-.099	-.412	.948	18.48
71.	12.99	12.64	.35	4.89	5.00	-.11	14.48	14.14	.35	-.121	-.462	.936	16.25
72.	12.22	12.53	-.31	5.44	5.52	-.09	14.67	14.32	.32	-.126	-.496	.924	14.46
73.	12.81	12.42	.39	5.91	5.95	-.04	14.69	14.45	.23	-.131	-.524	.913	13.25
74.	12.71	12.28	.43	6.17	6.25	-.08	14.74	14.60	.14	-.152	-.556	.906	12.48
75.	12.52	12.13	.39	6.50	6.46	.04	14.81	14.52	.30	-.140	-.562	.898	11.77
76.	12.23	12.00	.23	6.57	6.61	-.04	13.95	14.34	-.39	-.113	-.556	.889	11.28
77.	12.06	11.85	.21	6.80	6.72	.08	14.64	14.49	.15	-.152	-.588	.889	10.96
78.	11.82	11.67	.14	6.79	6.76	.04	14.54	14.52	.02	-.195	-.614	.889	10.75
79.	11.57	11.49	.08	6.77	6.80	-.04	14.09	14.16	-.07	-.142	-.596	.880	10.38
80.	11.40	11.36	.04	7.05	7.11	-.06	13.58	13.86	-.28	-.078	-.577	.860	9.71
81.	11.52	11.28	.24	7.74	7.42	.33	13.85	13.82	.03	-.053	-.580	.844	9.10
82.	11.16	11.21	-.06	7.33	7.42	-.08	13.64	13.80	-.17	-.059	-.585	.844	9.00
83.	11.10	11.13	-.03	7.46	7.39	.07	13.70	13.78	-.08	-.069	-.592	.845	9.01
84.	11.05	11.06	-.01	7.49	7.34	.15	13.76	13.54	.21	-.044	-.578	.841	8.96
85.	10.80	11.05	-.25	7.07	7.20	-.13	12.72	13.04	-.32	.026	-.531	.834	9.12
86.	10.95	11.10	-.15	7.24	7.36	-.12	12.85	13.01	-.16	.049	-.523	.825	8.97
87.	11.13	11.13	-.00	7.87	7.68	.19	13.63	13.50	.13	.003	-.566	.892	8.65
88.	11.35	11.10	.25	7.70	8.19	-.48	13.96	14.08	-.13	-.044	-.616	.814	8.14
89.	11.29	11.07	.22	9.48	9.69	-.21	14.76	14.71	.05	.000	-.659	.752	6.89
90.	10.90	11.22	-.32	12.19	12.16	.03	15.23	15.27	-.04	.149	-.687	.616	5.65

MONTH = 11 LATITUDE = 70

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE ORIG	PRESSURE NEW	PRESSURE DIF	TEMPERATURE ORIG	TEMPERATURE NEW	TEMPERATURE DIF	DENSITY ORIG	DENSITY NEW	DENSITY DIF	CORRELATION COEFFICIENTS RPT	RTD	RPD	DEPTH
22.	4.01	4.56	-.56	2.69	2.72	-.03	3.20	3.26	.04	.709	.159	.809	15.06
23.	4.90	4.85	.05	2.56	2.68	-.12	3.94	3.75	.19	.640	.113	.836	14.82
24.	5.08	5.12	-.04	2.74	2.74	-.00	4.06	4.04	.02	.620	.107	.846	14.97
25.	5.37	5.39	-.01	2.76	2.79	-.03	4.35	4.35	.00	.596	.096	.857	15.14
26.	5.76	5.63	.13	2.75	2.77	-.01	4.86	4.81	.05	.522	.035	.871	14.88
27.	6.10	5.84	.26	2.71	2.76	-.05	5.34	5.23	.10	.445	-.030	.882	15.02
28.	6.32	6.03	.28	2.83	2.82	.01	5.46	5.47	-.00	.425	-.046	.885	15.10
29.	6.33	6.23	.10	2.93	2.91	.02	5.54	5.55	-.01	.457	-.012	.884	15.43
30.	6.41	6.46	-.04	3.02	3.04	-.02	5.50	5.64	-.14	.485	.016	.882	15.63
31.	6.67	6.68	-.01	3.26	3.25	.01	5.88	5.89	-.02	.472	-.017	.874	15.08
32.	6.94	6.92	.02	3.53	3.55	-.02	6.19	6.23	-.04	.443	-.078	.859	14.13
33.	7.44	7.17	.27	3.96	3.78	.18	6.52	6.47	.05	.441	-.095	.852	13.81
34.	7.34	7.44	-.10	3.76	3.85	-.09	6.48	6.52	-.05	.483	-.040	.856	14.47
35.	7.46	7.75	-.29	4.01	4.05	-.04	6.47	6.56	-.10	.531	.010	.852	14.86
36.	7.86	8.09	-.23	4.45	4.39	.06	6.78	6.74	.04	.554	.013	.840	14.70
37.	8.07	8.48	-.41	4.61	4.61	-.01	7.00	6.91	.09	.581	.045	.839	15.12
38.	8.39	8.89	-.50	4.64	4.71	-.07	7.08	7.01	.07	.622	.116	.850	16.20
39.	8.96	9.34	-.38	4.70	4.88	-.18	7.30	7.20	.09	.649	.165	.857	17.17
40.	9.23	9.82	-.59	5.10	5.19	-.09	7.72	7.50	.22	.669	.172	.854	17.39
41.	9.91	10.33	-.43	5.35	5.43	-.07	8.02	7.83	.19	.684	.188	.857	17.81
42.	10.54	10.85	-.31	5.34	5.43	-.09	8.45	8.25	.21	.673	.227	.873	19.05
43.	11.05	11.36	-.31	5.10	5.29	-.18	8.92	8.75	.27	.660	.265	.894	20.65
44.	11.51	11.84	-.34	5.04	5.21	-.17	9.53	9.25	.28	.664	.287	.907	21.98
45.	11.91	12.32	-.41	5.11	5.22	-.11	9.97	9.69	.28	.661	.302	.915	23.11
46.	12.30	12.79	-.48	5.05	5.18	-.13	10.44	10.09	.34	.668	.332	.924	24.54
47.	12.57	13.25	-.68	4.93	5.12	-.19	10.76	10.45	.31	.682	.375	.934	26.43
48.	13.11	13.72	-.61	4.95	5.11	-.16	11.24	10.86	.38	.698	.399	.940	27.94
49.	13.46	14.18	-.72	4.94	5.07	-.13	11.76	11.28	.48	.693	.422	.946	29.65
50.	13.84	14.64	-.81	4.74	4.84	-.10	12.10	11.66	.44	.719	.476	.957	33.51
51.	14.35	15.09	-.73	4.21	4.51	-.30	12.64	12.10	.55	.747	.558	.969	38.39
52.	14.77	15.51	-.74	4.15	4.24	-.09	13.26	12.69	.57	.741	.572	.975	41.46
53.	15.52	15.91	-.38	3.72	4.05	-.33	14.15	13.41	.74	.695	.523	.976	41.27
54.	15.76	16.26	-.51	3.89	4.02	-.14	14.85	14.07	.79	.633	.445	.975	39.26
55.	15.86	16.59	-.73	3.89	4.08	-.19	15.26	14.63	.63	.574	.372	.974	37.19
56.	16.22	16.88	-.67	3.95	4.12	-.17	15.67	15.23	.84	.504	.288	.972	35.13
57.	16.47	17.15	-.68	3.96	4.15	-.19	16.64	15.79	.85	.436	.210	.972	33.70
58.	16.88	17.39	-.51	3.98	4.19	-.21	17.13	16.16	.97	.404	.175	.971	32.99
59.	16.91	17.63	-.72	4.07	4.22	-.16	17.17	16.25	.93	.435	.212	.972	33.37
60.	17.46	17.90	-.44	4.01	4.25	-.25	16.99	16.40	.59	.456	.239	.973	33.78
61.	17.70	18.15	-.45	4.15	4.40	-.25	17.92	16.90	1.01	.396	.164	.971	31.68
62.	17.96	18.39	-.43	4.51	4.64	-.12	19.25	17.38	.87	.338	.091	.968	29.37
63.	18.22	18.60	-.38	4.57	4.76	-.19	19.52	17.83	.70	.287	.033	.967	28.19
64.	19.13	18.77	.36	4.60	4.73	-.13	19.35	18.40	.95	.243	-.059	.968	27.63
65.	19.14	18.89	.25	4.46	4.60	-.14	19.43	18.78	.65	.145	-.099	.970	28.05
66.	19.18	18.98	.21	4.32	4.47	-.15	19.49	19.00	.49	.114	-.122	.972	28.51
67.	19.20	19.04	.16	4.33	4.40	-.07	19.69	19.22	.47	.074	-.155	.974	28.73
68.	19.19	19.08	.11	4.29	4.36	-.13	19.76	19.44	.33	.031	-.194	.974	28.67
69.	20.09	19.08	1.01	4.37	4.45	-.09	19.91	19.70	.20	-.026	-.251	.974	28.42
70.	19.08	19.04	.04	4.64	4.73	-.09	20.17	20.02	.15	-.090	-.322	.972	28.02
71.	19.02	18.95	.07	5.13	5.17	-.04	20.43	20.31	.11	-.137	-.383	.968	23.60
72.	18.30	18.82	-.51	5.57	5.65	-.08	20.66	20.55	.13	-.170	-.431	.963	21.56
73.	18.75	18.64	.11	5.98	5.90	.08	20.89	20.74	.15	-.217	-.483	.961	20.58
74.	18.54	18.40	.14	5.82	5.93	-.11	21.01	20.91	.10	-.290	-.539	.962	20.49
75.	18.25	18.11	.14	5.99	6.07	-.08	21.15	20.90	.25	-.328	-.578	.962	19.87
76.	17.88	17.77	.11	6.43	6.40	.01	21.57	20.90	-.32	-.351	-.605	.960	18.58
77.	17.40	17.36	.04	6.74	6.79	-.05	21.44	21.20	.24	-.433	-.674	.957	17.74
78.	17.02	16.85	.17	7.26	7.27	-.00	21.39	21.27	.12	-.472	-.716	.954	16.47
79.	16.50	16.31	.19	7.82	7.73	.09	21.82	20.88	-.06	-.438	-.712	.943	14.69
80.	15.87	15.77	.09	8.08	8.03	.05	22.35	20.41	-.06	-.407	-.708	.933	13.47
81.	15.38	15.25	.12	8.24	8.19	.05	22.80	20.60	-.10	-.401	-.715	.927	12.67
82.	14.88	14.72	.16	8.39	8.37	-.06	22.56	19.66	-.10	-.405	-.729	.921	11.98
83.	14.55	14.16	.39	8.79	8.48	.30	19.26	19.33	-.08	-.422	-.748	.917	11.47
84.	14.11	13.57	.54	8.29	8.35	-.06	18.72	18.86	-.14	-.449	-.766	.918	11.34
85.	13.08	12.95	.12	8.38	8.52	-.14	17.98	18.50	-.52	-.463	-.784	.913	10.69
86.	12.52	12.28	.24	9.46	9.25	.21	18.44	18.58	-.14	-.479	-.811	.900	9.30
87.	11.55	11.53	.02	10.19	9.83	.36	18.53	18.49	.03	-.496	-.841	.887	8.39
88.	11.05	10.77	.28	10.01	9.95	.07	17.50	17.73	-.23	-.464	-.884	.868	7.58
89.	9.97	10.13	-.16	10.14	10.35	-.21	14.42	16.60	-.18	-.313	-.815	.806	6.39
90.	9.23	9.84	-.62	11.62	11.55	.07	15.25	15.35	-.09	-.023	-.767	.659	5.29

MONTH = 11 LATITUDE = 90
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RPT	RTD	RPD	DEPTH
22.	4.54	5.05	-.50	2.99	3.02	-.03	3.64	3.61	.03	.709	.154	.807	14.42
23.	5.53	5.38	.16	2.79	2.93	-.14	4.40	4.21	.20	.629	.107	.841	14.10
24.	5.74	5.68	.05	3.02	2.98	.03	4.57	4.57	-.00	.600	.093	.852	13.94
25.	6.06	5.99	.07	3.01	3.03	-.02	4.89	4.93	-.04	.570	.079	.864	13.81
26.	6.50	6.26	.24	3.00	2.99	.01	5.46	5.48	.00	.486	.007	.870	13.80
27.	6.88	6.49	.39	3.04	3.07	-.03	6.05	5.99	.07	.391	-.079	.880	13.76
28.	7.11	6.68	.43	3.07	3.03	.04	6.19	6.26	-.07	.362	-.097	.893	13.86
29.	7.09	6.88	.21	3.19	3.14	.06	6.27	6.33	-.07	.396	-.065	.890	13.85
30.	7.15	7.11	.05	3.32	3.30	.02	6.17	6.41	-.23	.434	-.035	.886	14.18
31.	7.44	7.35	.09	3.62	3.46	.16	6.57	6.66	-.10	.425	-.051	.882	14.00
32.	7.74	7.59	.16	3.53	3.60	-.06	6.90	7.03	-.13	.387	-.094	.882	13.80
33.	8.32	7.82	.50	3.96	3.73	.23	7.26	7.29	-.03	.375	-.109	.880	13.76
34.	8.19	8.07	.12	3.79	3.85	-.05	7.17	7.30	-.13	.408	-.055	.879	14.26
35.	8.24	8.37	-.14	4.19	4.19	-.00	7.01	7.26	-.25	.408	-.003	.865	14.28
36.	8.67	8.74	-.07	4.90	4.64	.26	7.34	7.39	-.06	.534	.004	.868	13.80
37.	8.91	9.16	-.25	4.79	4.85	-.06	7.51	7.55	-.04	.566	.044	.864	14.41
38.	9.27	9.62	-.34	5.08	5.01	.06	7.62	7.68	-.05	.604	.109	.855	15.28
39.	9.91	10.12	-.21	5.15	5.27	-.11	7.89	7.93	-.04	.631	.141	.857	15.80
40.	10.24	10.66	-.42	5.63	5.62	.01	8.42	8.31	.11	.636	.139	.853	15.83
41.	10.95	11.22	-.27	5.90	5.88	.02	8.74	8.70	.05	.604	.155	.856	16.20
42.	11.61	11.80	-.19	5.84	5.85	-.01	9.23	9.14	.09	.661	.201	.874	17.56
43.	12.09	12.36	-.28	5.54	5.67	-.12	9.79	9.69	.10	.650	.244	.886	19.26
44.	12.60	12.90	-.30	5.45	5.57	-.12	10.45	10.27	.19	.641	.262	.909	20.48
45.	13.04	13.42	-.38	5.53	5.57	-.04	10.95	10.78	.17	.635	.273	.917	21.40
46.	13.46	13.93	-.47	5.44	5.52	-.08	11.46	11.21	.25	.644	.308	.926	22.97
47.	13.73	14.45	-.71	5.29	5.46	-.17	11.79	11.58	.21	.661	.353	.935	24.88
48.	14.33	14.96	-.63	5.36	5.48	-.12	12.33	12.02	.30	.666	.373	.940	26.12
49.	14.69	15.47	-.77	5.39	5.48	-.09	12.91	12.47	.43	.671	.393	.946	27.53
50.	15.08	15.97	-.89	5.17	5.22	-.05	13.25	12.86	.39	.702	.466	.957	31.40
51.	15.63	16.46	-.84	4.50	4.81	-.31	13.80	13.31	.49	.733	.552	.970	35.38
52.	16.08	16.93	-.85	4.41	4.46	-.05	14.48	13.94	.54	.749	.581	.977	41.76
53.	16.90	17.35	-.45	3.85	4.20	-.35	15.45	14.72	.72	.700	.539	.979	42.83
54.	17.15	17.73	-.58	4.02	4.12	-.10	16.22	15.44	.78	.635	.462	.970	41.41
55.	17.26	18.06	-.80	3.93	4.14	-.20	16.68	16.06	.61	.570	.383	.977	39.66
56.	17.61	18.36	-.75	4.01	4.17	-.16	17.56	16.71	.85	.491	.299	.976	36.97
57.	17.87	18.62	-.75	4.03	4.23	-.19	18.18	17.29	.89	.417	.205	.975	34.91
58.	18.32	18.86	-.54	4.09	4.30	-.21	18.67	17.65	1.02	.387	.179	.974	33.58
59.	18.33	19.11	-.78	4.21	4.37	-.15	19.68	17.71	.97	.424	.211	.975	33.53
60.	18.86	19.39	-.53	4.16	4.41	-.25	19.50	17.81	.69	.456	.251	.975	33.74
61.	19.13	19.68	-.55	4.29	4.57	-.28	19.39	18.29	1.10	.410	.193	.974	31.84
62.	19.43	19.95	-.51	4.70	4.83	-.12	19.74	18.77	.97	.358	.123	.971	29.66
63.	19.74	20.19	-.45	4.75	4.98	-.22	20.07	19.26	.82	.306	.063	.969	28.30
64.	20.73	20.39	.34	4.85	4.97	-.12	20.95	19.88	1.08	.224	-.020	.970	27.74
65.	20.75	20.54	.21	4.66	4.82	-.16	21.01	20.27	.75	.173	-.062	.972	28.38
66.	20.79	20.65	.13	4.46	4.62	-.16	21.04	20.47	.57	.152	-.073	.975	28.12
67.	20.82	20.75	.06	4.39	4.49	-.09	21.25	20.69	.55	.122	-.095	.977	29.60
68.	20.81	20.83	-.02	4.28	4.46	-.18	21.32	20.91	.41	.088	-.126	.977	29.23
69.	21.93	20.87	1.06	4.55	4.59	-.05	21.48	21.19	.28	.039	-.178	.976	27.94
70.	20.69	20.88	-.19	4.74	4.86	-.12	21.77	21.53	.24	-.019	-.245	.974	26.01
71.	20.84	20.84	-.21	5.21	5.29	-.08	22.05	21.80	.25	-.058	-.298	.970	24.37
72.	19.92	20.77	-.85	5.76	5.77	-.02	22.33	21.99	.34	-.079	-.336	.965	17.34
73.	20.35	20.64	-.29	6.31	5.98	.03	22.59	22.12	.47	-.111	-.374	.963	14.44
74.	20.11	20.42	-.31	5.70	5.93	-.23	22.72	22.23	.49	-.174	-.427	.965	12.38
75.	19.79	20.03	-.24	5.81	6.04	-.23	22.88	22.22	.65	-.232	-.481	.964	9.98
76.	19.40	19.53	-.12	6.35	6.41	-.06	22.35	22.33	.02	-.305	-.553	.962	11.70
77.	18.85	18.92	-.07	6.73	6.88	-.15	23.27	22.77	.50	-.436	-.663	.962	13.41
78.	18.43	18.21	.22	7.41	7.47	-.06	23.23	22.93	.31	-.508	-.729	.960	14.48
79.	17.64	17.50	.15	8.14	8.04	.09	22.62	22.59	.04	-.495	-.739	.951	14.65
80.	17.10	16.85	.25	8.40	8.33	.07	22.15	22.12	.04	-.483	-.745	.944	15.23
81.	16.46	16.23	.23	8.40	8.43	-.04	21.54	21.65	-.11	-.490	-.757	.941	14.41
82.	15.93	15.58	.35	8.62	8.67	-.05	21.17	21.24	-.07	-.488	-.770	.935	13.36
83.	14.55	14.91	-.36	9.18	8.84	.34	20.78	20.79	-.02	-.501	-.784	.930	12.48
84.	14.99	14.20	.79	8.54	8.70	-.17	20.11	20.22	-.12	-.533	-.804	.931	12.24
85.	13.75	13.43	.32	8.77	8.95	-.18	19.43	19.92	-.49	-.566	-.831	.929	11.58
86.	13.00	12.57	.44	10.09	9.82	.27	19.95	20.06	-.11	-.600	-.865	.920	10.06
87.	11.69	11.58	.11	10.85	10.46	.40	19.89	19.86	.03	-.634	-.900	.911	8.88
88.	10.95	10.56	.39	10.67	10.47	.21	18.64	18.77	-.13	-.594	-.892	.894	7.86
89.	9.49	9.69	-.20	10.35	10.55	-.20	16.94	17.16	-.22	-.436	-.861	.833	6.36
90.	8.59	9.22	-.62	11.42	11.35	.08	15.26	15.36	-.10	-.197	-.803	.679	5.09

MONTH = 12 LATITUDE = 10
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE ORIG	PRESSURE NEW	PRESSURE DIF	TEMPERATURE ORIG	TEMPERATURE NEW	TEMPERATURE DIF	DENSITY ORIG	DENSITY NEW	DENSITY DIF	CORRELATION COEFFICIENTS RDT	RTD	RDD	DEPTH
22.	.67	1.66	-.79	.88	.96	-.08	1.33	1.19	.14	.714	.188	.892	15.29
23.	.77	1.80	-1.03	.91	1.20	-.29	1.22	1.09	.13	.809	.237	.762	16.01
24.	2.57	1.95	.63	1.06	1.40	-.34	2.97	1.51	1.47	.637	-.106	.699	11.46
25.	2.31	2.06	.26	1.34	1.59	-.25	2.81	2.09	.72	.365	-.402	.706	8.98
26.	2.29	2.14	.14	1.59	1.75	-.16	2.95	2.39	.56	.256	-.604	.788	8.23
27.	2.25	2.21	.04	1.69	1.81	-.19	2.79	2.46	.33	.263	-.499	.705	8.39
28.	2.23	2.28	-.05	1.04	1.78	-.14	2.83	2.48	.34	.271	-.467	.794	8.80
29.	2.22	2.36	-.14	1.57	1.74	-.17	2.74	2.47	.27	.303	-.415	.741	9.69
30.	2.21	2.45	-.23	1.60	1.76	-.17	2.66	2.40	.26	.387	-.341	.735	10.30
31.	2.24	2.56	-.32	1.71	1.83	-.12	2.56	2.31	.25	.446	-.253	.793	11.06
32.	2.29	2.70	-.40	.67	1.88	-.21	2.51	2.31	.19	.530	-.185	.799	11.91
33.	2.59	2.84	-.26	.78	1.92	-.14	2.81	2.40	.41	.550	-.148	.744	12.56
34.	2.67	2.99	-.32	.73	1.92	-.19	2.70	2.67	.43	.525	-.138	.778	13.08
35.	3.49	3.12	.38	1.77	1.92	-.16	3.30	2.87	.43	.430	-.204	.797	13.09
36.	3.35	3.22	.13	1.85	1.91	-.06	3.33	3.09	.23	.369	-.241	.818	13.26
37.	3.33	3.31	.02	1.70	1.85	-.11	3.26	3.17	.10	.357	-.219	.837	14.11
38.	3.40	3.40	.00	1.78	1.84	-.06	3.40	3.27	.13	.339	-.217	.848	14.60
39.	3.46	3.48	-.02	1.81	1.85	-.04	3.50	3.39	.11	.316	-.223	.854	14.87
40.	3.55	3.56	-.00	1.80	1.86	-.06	3.57	3.47	.10	.307	-.221	.860	15.23
41.	3.62	3.63	-.01	1.84	1.86	-.03	3.61	3.56	.05	.295	-.223	.866	15.52
42.	3.73	3.70	.04	1.81	1.86	-.05	3.77	3.67	.10	.268	-.237	.873	15.83
43.	3.75	3.76	-.02	1.84	1.87	-.03	3.80	3.75	.05	.253	-.244	.876	16.03
44.	3.86	3.82	.04	1.87	1.91	-.04	3.87	3.84	.03	.233	-.261	.875	15.95
45.	3.91	3.88	.03	1.97	1.99	-.01	4.04	3.95	.09	.222	-.285	.871	15.65
46.	3.97	3.94	.04	2.04	2.04	.01	4.01	3.98	.03	.236	-.279	.868	15.61
47.	3.99	4.00	-.02	2.02	2.03	-.02	4.01	3.98	.04	.266	-.243	.870	16.09
48.	4.05	4.07	-.02	1.99	1.98	.02	3.99	3.89	.00	.284	-.206	.880	16.96
49.	4.20	4.14	.06	1.86	1.93	-.07	4.07	4.04	.03	.297	-.182	.889	17.42
50.	4.23	4.22	.01	1.95	2.05	-.10	4.18	4.08	.02	.308	-.185	.878	17.19
51.	4.33	4.31	.02	2.03	2.23	.19	4.13	4.11	.02	.345	-.182	.868	16.38
52.	4.40	4.41	-.01	2.10	2.18	-.07	4.13	4.12	.01	.374	-.128	.872	17.25
53.	4.42	4.51	-.08	2.05	2.00	.04	4.14	4.14	.00	.399	-.060	.896	19.31
54.	4.53	4.61	-.07	1.74	1.84	-.05	4.21	4.21	-.01	.403	.005	.917	21.48
55.	4.59	4.69	-.10	1.69	1.76	-.07	4.39	4.37	.02	.363	-.012	.927	22.48
56.	4.63	4.77	-.15	1.81	1.87	-.06	4.63	4.56	.07	.306	-.080	.921	20.80
57.	4.78	4.85	-.07	2.09	2.04	.05	4.77	4.67	.09	.295	-.132	.908	18.05
58.	4.90	4.93	-.03	2.09	2.09	.00	4.74	4.71	.04	.317	-.111	.907	18.05
59.	5.00	5.02	-.02	1.99	2.12	-.14	4.79	4.80	-.00	.313	-.115	.908	18.73
60.	5.12	5.11	.01	2.34	2.33	.01	5.08	4.96	.11	.299	-.172	.893	17.09
61.	5.01	5.20	-.19	2.56	2.57	-.01	5.13	5.14	-.01	.270	-.237	.876	15.37
62.	5.32	5.30	.02	2.70	2.75	-.04	5.49	5.32	.17	.251	-.266	.866	14.20
63.	5.39	5.40	-.01	2.69	2.68	-.01	5.46	5.37	.08	.278	-.256	.857	13.72
64.	5.46	5.53	-.07	2.92	2.99	-.07	5.35	5.32	.03	.310	-.217	.849	13.53
65.	5.65	5.69	-.05	3.09	3.15	-.06	5.41	5.34	.07	.337	-.177	.839	13.21
66.	5.82	5.89	-.08	3.34	3.43	-.09	5.45	5.46	-.01	.413	-.183	.820	12.42
67.	5.18	5.12	.06	3.69	3.76	-.04	5.81	5.71	.10	.455	-.215	.801	11.58
68.	6.41	6.37	.04	3.92	3.95	-.03	6.02	5.98	.04	.406	-.229	.797	11.14
69.	6.63	6.62	.01	4.03	4.11	-.08	6.28	6.30	-.02	.393	-.245	.799	10.86
70.	6.92	6.87	.05	4.34	4.36	-.02	6.80	6.78	.02	.334	-.300	.796	10.10
71.	7.09	7.10	-.01	4.64	4.60	.04	7.40	7.34	.07	.270	-.365	.788	9.66
72.	7.35	7.28	.07	4.69	4.67	.02	7.88	7.83	.05	.193	-.458	.811	9.40
73.	7.48	7.48	.05	4.60	4.69	-.09	8.24	8.26	-.02	.122	-.556	.826	9.45
74	7.58	7.48	.10	4.84	4.87	-.03	8.73	8.62	.11	.075	-.601	.824	9.06
75.	7.65	7.56	.09	5.23	5.16	.07	8.74	8.65	.09	.113	-.495	.806	8.66
76.	7.66	7.72	-.06	5.37	5.34	.03	8.32	8.28	.04	.238	-.423	.779	8.79
77.	7.99	8.01	-.02	5.43	5.51	-.08	7.68	7.80	-.13	.381	-.315	.758	9.21
78.	8.38	8.42	-.05	5.83	5.63	.20	7.50	7.55	-.04	.489	-.208	.757	10.00
79.	8.90	8.90	-.01	5.43	5.46	-.03	7.49	7.60	-.11	.529	-.100	.792	11.24
80.	3.10	9.38	-1.28	5.07	5.24	-.17	8.02	8.04	-.03	.516	-.050	.830	12.28
81.	9.75	9.81	-.06	5.13	5.34	-.21	8.11	8.83	.28	.447	-.108	.861	13.03
82.	10.02	10.17	-.15	5.56	5.66	-.10	8.98	8.98	-.09	.319	-.251	.862	11.85
83.	22.08	10.42	11.66	5.49	5.94	-.45	10.22	10.92	-.70	.198	-.365	.846	10.48
84.	10.65	10.66	-.01	6.00	6.10	-.10	10.66	10.74	-.17	.273	-.296	.838	10.64
85.	11.08	11.03	.05	6.53	6.53	-.21	10.15	10.24	-.10	.413	-.194	.814	11.85
86.	11.53	11.57	-.04	7.43	7.35	.08	10.20	10.27	-.07	.486	-.169	.780	10.38
87.	12.20	12.24	-.04	8.16	7.94	.22	10.60	10.68	-.08	.508	-.161	.768	10.29
88.	12.96	12.95	.01	7.95	8.18	-.23	11.39	11.40	-.01	.494	-.156	.782	10.23
89.	13.72	13.70	.02	8.60	8.96	-.36	12.30	12.22	.07	.483	-.192	.747	9.71
90.	14.67	14.59	.08	10.64	10.65	-.01	12.97	12.96	.01	.502	-.249	.707	8.76

MONTH = 12 LATITUDE = 30
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RHT	RTD	RPD	DPPTM
22.	1.55	1.58	-.02	2.11	2.13	-.03	2.27	2.24	.03	.308	-.741	.418	4.86
23.	1.62	1.66	-.04	1.56	1.72	-.16	2.06	2.10	-.03	.224	-.641	.604	6.22
24.	1.67	1.71	-.05	1.57	1.62	-.05	2.12	2.12	-.00	.196	-.611	.664	6.80
25.	1.73	1.76	-.04	1.69	1.72	-.02	2.28	2.20	.08	.196	-.621	.648	6.70
26.	1.72	1.83	-.11	1.84	1.87	-.03	2.23	2.22	.01	.286	-.611	.585	6.60
27.	1.69	1.94	-.25	2.00	2.03	-.03	2.27	2.15	.12	.414	-.570	.511	6.85
28.	1.65	2.08	-.23	2.04	2.10	-.06	2.07	2.05	.02	.519	-.496	.486	7.65
29.	2.06	2.26	-.19	1.98	2.09	-.11	2.17	2.03	.14	.567	-.400	.529	8.71
30.	2.30	2.43	-.14	1.96	2.08	-.11	2.15	2.09	.06	.581	-.317	.588	9.66
31.	2.48	2.61	-.13	1.98	2.08	-.10	2.38	2.24	.15	.566	-.270	.640	10.20
32.	2.60	2.79	-.19	1.98	2.13	-.15	2.56	2.38	.18	.561	-.240	.670	10.77
33.	2.63	2.97	-.34	2.12	2.25	-.13	2.61	2.48	.13	.578	-.217	.672	11.16
34.	2.79	3.16	-.37	2.25	2.36	-.12	2.85	2.67	.18	.566	-.221	.678	11.18
35.	3.08	3.35	-.26	2.25	2.44	-.18	3.24	2.93	.31	.526	-.233	.706	11.38
36.	3.21	3.53	-.32	2.31	2.53	-.22	3.41	3.14	.27	.506	-.238	.718	11.48
37.	3.32	3.71	-.40	2.53	2.70	-.18	3.64	3.33	.31	.498	-.254	.712	11.43
38.	3.64	3.88	-.26	2.64	2.82	-.17	3.88	3.54	.34	.483	-.265	.717	11.52
39.	3.86	4.08	-.22	2.63	2.87	-.25	4.11	3.81	.30	.443	-.280	.736	11.68
40.	4.04	4.25	-.21	2.77	2.94	-.17	4.53	3.97	.56	.438	-.273	.706	11.98
41.	3.99	4.44	-.44	2.78	3.02	-.24	4.14	3.92	.23	.503	-.209	.745	12.73
42.	4.25	4.65	-.40	2.91	3.07	-.16	4.25	3.94	.31	.544	-.138	.756	13.73
43.	4.56	4.86	-.30	2.80	3.02	-.22	4.56	4.17	.38	.523	-.116	.786	14.46
44.	4.89	5.05	-.16	2.72	2.93	-.21	4.85	4.51	.34	.467	-.128	.817	15.18
45.	5.25	5.21	.04	2.69	2.88	-.19	5.31	4.92	.39	.374	-.199	.840	16.20
46.	5.56	5.34	.22	2.71	2.84	-.13	5.75	5.09	.61	.351	-.198	.853	16.76
47.	5.20	5.49	-.29	2.64	2.76	-.12	4.98	4.92	.16	.470	-.029	.864	17.81
48.	5.11	5.67	-.57	2.51	2.63	-.12	4.78	4.60	.19	.603	.173	.899	21.36
49.	5.38	5.88	-.52	2.33	2.48	-.18	4.99	4.68	.32	.645	.279	.914	24.47
50.	5.59	6.08	-.49	2.25	2.44	-.19	5.24	4.89	.35	.639	.296	.924	25.72
51.	5.90	6.27	-.37	2.35	2.48	-.13	5.56	5.15	.40	.607	.267	.924	25.81
52.	6.29	6.45	-.17	2.35	2.49	-.14	5.87	5.48	.39	.556	.198	.925	24.36
53.	6.66	6.62	.04	2.29	2.48	-.19	6.29	5.86	.42	.474	.111	.928	23.64
54.	6.98	6.78	.22	2.42	2.56	-.14	6.64	6.22	.42	.378	.014	.925	22.32
55.	7.17	6.88	.29	2.59	2.69	-.10	6.79	6.45	.34	.359	-.042	.920	21.18
56.	7.25	7.01	.24	2.69	2.83	-.14	6.87	6.61	.26	.336	-.071	.915	20.17
57.	7.46	7.13	.33	2.91	2.97	-.06	7.04	6.76	.27	.330	-.092	.910	19.26
58.	7.49	7.27	.22	3.00	3.10	-.11	7.05	6.88	.17	.334	-.099	.905	18.70
59.	7.58	7.41	.17	3.16	3.29	-.13	7.21	7.06	.15	.336	-.105	.897	17.68
60.	7.92	7.55	.37	3.55	3.57	-.01	7.49	7.33	.16	.293	-.108	.886	16.36
61.	8.15	7.69	.46	3.71	3.86	-.15	7.76	7.68	.08	.253	-.209	.874	14.93
62.	8.44	7.81	.63	4.26	4.25	.00	8.19	8.16	.04	.193	-.340	.859	13.42
63.	9.07	7.91	1.16	4.58	4.61	-.03	8.68	8.66	.02	.121	-.422	.849	12.23
64.	9.19	7.96	1.23	4.94	4.44	.50	8.85	8.95	-.10	.044	-.458	.868	12.55
65.	7.78	7.97	-.19	3.55	3.89	-.34	8.71	8.99	-.27	-.034	-.463	.901	14.14
66.	7.78	7.95	-.16	3.94	3.88	.07	8.77	8.98	-.21	-.048	-.467	.902	15.02
67.	7.88	7.94	-.12	4.48	4.24	.20	8.87	8.98	-.12	.005	-.468	.881	13.48
68.	7.88	7.95	-.07	4.46	4.35	.11	8.79	8.95	-.17	.037	-.462	.874	11.90
69.	7.95	7.96	-.01	4.29	4.30	-.01	8.87	9.02	-.15	.007	-.470	.879	11.92
70.	8.00	7.94	.06	4.38	4.46	-.08	9.12	9.32	-.20	-.055	-.525	.879	11.28
71.	7.98	7.88	.10	4.89	4.92	-.03	8.76	9.74	-.98	-.116	-.594	.865	10.05
72.	8.02	7.79	.23	5.43	5.43	.11	9.07	9.93	-.86	-.102	-.625	.849	8.91
73.	8.06	7.72	.34	5.93	5.84	.09	9.20	9.98	-.78	-.049	-.637	.808	8.06
74.	8.12	7.71	.41	6.38	6.38	.00	9.68	9.85	-.17	.034	-.622	.760	7.36
75.	8.27	7.79	.49	7.07	6.71	.36	9.51	9.71	-.20	.116	-.601	.726	6.97
76.	8.03	7.97	.06	7.05	6.85	.21	9.17	9.38	-.21	.216	-.565	.700	7.03
77.	8.38	8.26	.12	7.00	6.72	.28	9.67	8.96	-.29	.294	-.475	.698	7.58
78.	8.27	8.62	-.35	6.53	6.43	.10	8.45	8.82	-.38	.341	-.384	.720	8.34
79.	8.76	8.96	-.22	6.23	6.15	.08	9.02	9.04	-.02	.333	-.349	.767	9.02
80.	8.58	9.31	-.73	5.94	6.08	-.14	9.21	9.50	-.29	.295	-.351	.791	9.28
81.	9.48	9.59	-.12	6.31	6.29	.02	10.45	10.15	.30	.236	-.396	.798	9.06
82.	9.50	9.86	-.36	6.09	6.49	-.01	10.69	10.46	.24	.233	-.400	.798	9.01
83.	9.72	10.16	-.45	6.40	6.70	-.30	10.38	10.34	.05	.303	-.351	.787	9.17
84.	9.94	10.59	-.65	7.12	6.99	.13	10.51	10.03	.49	.409	-.266	.775	9.57
85.	11.09	11.15	-.06	6.72	7.01	-.29	9.67	9.62	-.05	.517	-.129	.783	10.71
86.	11.81	11.80	.01	6.77	7.06	-.29	9.90	9.90	.00	.547	-.069	.802	11.46
87.	12.64	12.42	.22	7.26	6.97	.29	11.28	11.13	.14	.456	-.119	.830	11.43
88.	13.17	12.85	.32	5.99	6.96	-.96	13.05	12.91	.14	.262	-.278	.854	10.93
89.	13.66	13.08	.57	8.14	8.42	-.28	15.09	14.76	.33	.111	-.477	.824	9.88
90.	13.71	13.28	.41	11.11	11.14	-.03	16.35	16.30	.05	.118	-.587	.734	6.89

MONTH = 12 LATITUDE = 55
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE			TEMPERATURE			DENSITY			CORRELATION COEFFICIENTS			
	ORIG	NEW	DIF	ORIG	NEW	DIF	ORIG	NEW	DIF	RRT	RTD	RRD	DEPTH
22.	3.18	3.64	-.45	2.56	2.59	-.03	1.84	1.82	.02	.880	.330	.738	18.83
23.	3.68	3.95	-.26	2.18	2.29	-.12	2.80	2.67	.24	.797	.315	.834	17.86
24.	3.89	4.22	-.33	2.12	2.13	-.06	2.99	2.91	.08	.766	.359	.875	19.30
25.	4.02	4.48	-.46	2.13	2.22	-.09	3.13	3.07	.06	.784	.492	.894	21.05
26.	4.24	4.75	-.51	2.20	2.30	-.10	3.48	3.33	.15	.767	.484	.887	20.84
27.	4.54	5.02	-.47	2.27	2.42	-.16	3.91	3.74	.17	.703	.295	.887	18.89
28.	5.13	5.27	-.14	2.48	2.52	-.04	4.54	4.24	.30	.608	.162	.882	17.04
29.	5.51	5.49	.03	2.34	2.49	-.14	4.98	4.72	.27	.514	.071	.892	16.64
30.	5.71	5.66	.05	2.33	2.43	-.11	5.37	5.12	.25	.427	-.002	.903	16.68
31.	5.95	5.81	.14	2.35	2.42	-.07	5.66	5.46	.20	.348	-.073	.910	16.57
32.	6.13	5.92	.20	2.35	2.46	-.11	5.89	5.76	.11	.264	-.154	.912	16.23
33.	6.20	6.01	.19	2.56	2.56	-.00	6.25	6.04	.20	.203	-.223	.910	15.63
34.	6.95	6.09	-.14	2.62	2.70	-.09	6.20	6.22	-.02	.173	-.265	.904	15.08
35.	6.18	6.16	.03	2.09	2.92	-.04	6.57	6.43	.14	.143	-.317	.893	14.05
36.	6.25	6.22	.03	3.17	3.17	.00	6.66	6.58	.08	.140	-.359	.879	13.18
37.	6.20	6.30	-.11	3.34	3.36	-.02	6.66	6.56	.10	.147	-.332	.864	12.79
38.	6.25	6.41	-.16	3.47	3.50	-.03	6.50	6.50	-.00	.246	-.295	.853	12.79
39.	6.35	6.55	-.21	3.57	3.62	-.05	6.62	6.52	.10	.294	-.270	.847	12.87
40.	6.47	6.72	-.25	3.70	3.78	-.08	6.69	6.55	.14	.335	-.243	.838	12.90
41.	6.87	6.92	-.05	3.93	3.97	-.04	6.58	6.51	.07	.396	-.199	.827	13.17
42.	7.25	7.15	.10	4.07	4.10	-.03	6.60	6.53	.07	.432	-.155	.824	13.58
43.	7.50	7.41	.09	4.13	4.13	-.01	6.69	6.67	.02	.448	-.121	.833	14.27
44.	7.76	7.66	.09	4.05	4.10	-.05	6.97	6.84	.04	.436	-.109	.847	14.90
45.	7.97	7.90	.07	4.05	4.11	-.05	7.30	7.30	-.00	.408	-.130	.857	15.23
46.	8.09	8.11	-.03	4.19	4.12	.08	7.78	7.69	.10	.356	-.161	.866	15.36
47.	8.20	8.31	-.11	3.96	3.99	-.02	7.98	7.91	.08	.338	-.159	.880	16.26
48.	8.37	8.49	-.12	3.76	3.76	-.00	8.00	7.96	.03	.357	-.093	.897	17.87
49.	8.52	8.67	-.15	3.49	3.58	-.09	8.05	8.02	.03	.391	-.034	.911	19.58
50.	8.67	8.85	-.18	3.46	3.50	-.03	8.21	8.17	.04	.385	-.011	.919	20.60
51.	8.85	9.03	-.17	3.45	3.49	-.04	8.48	8.39	.10	.370	-.018	.922	20.84
52.	9.02	9.20	-.18	3.47	3.53	-.06	8.70	8.60	.10	.355	-.031	.924	20.88
53.	9.09	9.36	-.28	3.56	3.61	-.06	8.92	8.81	.12	.343	-.046	.923	20.58
54.	9.12	9.53	-.41	3.67	3.74	-.07	9.16	9.02	.15	.330	-.067	.920	20.13
55.	9.17	9.69	-.52	3.80	3.85	-.05	9.45	9.22	.22	.318	-.083	.918	19.84
56.	9.30	9.86	-.56	3.75	3.86	-.11	9.67	9.35	.31	.323	-.072	.920	19.96
57.	9.47	10.03	-.57	3.72	3.86	-.13	9.71	9.43	.28	.346	-.044	.923	20.33
58.	9.67	10.22	-.55	3.75	3.88	-.13	9.96	9.58	.38	.368	-.033	.925	20.56
59.	9.97	10.42	-.45	3.72	3.89	-.17	10.29	9.50	.79	.414	.044	.928	21.34
60.	10.65	10.86	-.21	3.73	3.93	-.20	9.24	9.44	-.20	.477	.123	.931	22.35
61.	10.43	10.90	-.46	3.80	4.10	-.30	11.02	10.15	.88	.364	-.014	.926	20.48
62.	10.74	11.07	-.33	4.04	4.41	-.17	11.76	10.93	.83	.231	-.179	.920	18.35
63.	11.04	11.21	-.17	4.43	4.68	-.28	12.01	11.20	.82	.213	-.209	.913	17.20
64.	11.03	11.34	-.31	4.65	4.78	-.13	11.97	11.51	.46	.175	-.243	.913	16.86
65.	11.82	11.42	.40	4.30	4.69	-.30	13.06	12.08	.98	.061	-.331	.922	16.90
66.	11.77	11.44	.34	4.43	4.66	-.25	12.89	12.44	.55	-.021	-.395	.927	16.94
67.	11.73	11.41	.29	4.57	4.76	-.09	13.05	12.59	.46	-.052	-.425	.926	16.83
68.	11.61	11.36	.26	4.67	4.78	-.11	13.09	12.74	.35	-.096	-.461	.928	16.21
69.	11.53	11.27	.26	4.64	4.75	-.13	13.15	12.91	.24	-.158	-.507	.932	16.18
70.	11.41	11.13	.28	4.72	4.92	-.20	13.31	13.13	.18	-.220	-.562	.931	15.47
71.	11.27	10.95	.32	5.37	5.42	-.05	13.50	13.35	.15	-.283	-.606	.918	13.78
72.	9.68	11.75	-1.07	5.99	6.06	-.07	13.69	13.46	.24	-.221	-.627	.898	11.93
73.	10.98	10.65	.33	6.57	6.61	-.04	13.68	13.46	.22	-.187	-.638	.876	10.56
74.	10.82	10.37	.45	6.93	7.03	-.11	13.59	13.44	.15	-.162	-.648	.856	9.65
75.	10.73	10.25	.48	7.45	7.35	.10	13.44	12.92	.52	-.053	-.610	.823	8.91
76.	10.39	10.26	.13	7.47	7.47	.00	11.38	12.23	-.84	.076	-.547	.793	8.71
77.	10.33	10.35	-.02	7.53	7.45	.07	13.66	12.35	.31	.066	-.548	.788	8.76
78.	10.22	10.40	-.18	7.34	7.35	-.01	13.59	12.57	.01	.027	-.562	.812	8.83
79.	10.30	10.46	-.15	7.22	7.32	-.10	13.42	12.38	.04	.063	-.538	.807	8.88
80.	10.29	10.55	-.26	7.45	7.50	-.04	13.17	12.33	-.16	.098	-.529	.786	8.73
81.	10.64	10.67	-.03	7.73	7.64	.09	13.77	12.50	.27	.099	-.527	.784	8.63
82.	10.60	10.80	-.20	7.45	7.66	-.20	13.59	12.60	-.01	.100	-.522	.786	8.67
83.	10.66	10.90	-.24	7.75	7.74	.01	13.82	12.58	.24	.126	-.506	.792	8.67
84.	10.72	11.14	-.42	7.71	7.56	.16	13.60	12.23	.37	.187	-.448	.795	9.08
85.	11.33	11.40	-.07	6.65	6.98	-.32	11.67	11.75	-.14	.256	-.346	.819	10.20
86.	11.68	11.68	.00	6.45	6.82	-.37	13.02	12.06	-.04	.235	-.338	.835	10.72
87.	12.15	11.87	.28	7.31	6.98	.33	13.38	13.11	.27	.188	-.435	.849	11.46
88.	12.45	11.90	.55	6.52	7.32	-.80	14.29	14.32	-.04	-.057	-.559	.860	10.00
89.	12.13	11.80	.33	8.75	8.86	-.11	15.72	15.39	.33	-.092	-.646	.819	8.26
90.	11.67	11.78	-.11	11.37	11.36	.01	15.93	15.85	-.01	.050	-.675	.703	6.47

MONTH = 12 LATITUDE = 70
AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE ORIG	PRESSURE NEW	PRESSURE DIF	TEMPERATURE ORIG	TEMPERATURE NEW	TEMPERATURE DIF	DENSITY ORIG	DENSITY NEW	DENSITY DIF	CORRELATION COEFFICIENTS RPT	RTD	RPD	DEPTH
22.	2.45	2.59	-.14	3.08	3.09	-.01	2.75	2.74	.01	.549	-.612	.326	6.20
23.	2.95	2.86	.09	3.13	3.14	-.01	2.89	2.87	.02	.546	-.549	.400	6.72
24.	2.99	3.14	-.16	3.15	3.20	-.05	3.01	3.03	-.02	.543	-.493	.462	7.18
25.	3.83	3.44	.40	3.33	3.28	.04	3.28	3.11	.17	.572	-.423	.501	7.85
26.	3.81	3.77	.04	3.33	3.35	-.02	2.88	2.99	-.11	.654	-.295	.530	9.16
27.	4.14	4.15	-.01	3.47	3.46	.01	2.85	2.91	-.06	.722	-.157	.560	10.66
28.	4.36	4.58	-.21	3.64	3.63	.02	3.00	3.06	-.06	.745	-.071	.613	11.62
29.	4.62	5.02	-.40	3.74	3.77	-.03	3.41	3.45	-.05	.724	-.036	.661	11.91
30.	5.08	5.45	-.38	3.80	3.89	-.09	4.15	4.02	.13	.673	-.049	.702	11.78
31.	5.26	5.87	-.61	3.97	4.02	-.12	4.72	4.59	.13	.626	-.076	.730	11.61
32.	5.65	6.21	-.56	3.99	4.24	-.25	5.43	5.86	-.43	.422	-.276	.755	10.08
33.	6.01	6.45	-.44	4.09	5.11	-1.02	10.64	7.28	3.37	.224	-.504	.720	8.14
34.	5.98	6.73	-.75	5.83	4.84	.99	6.99	6.91	.09	.483	-.453	.634	7.96
35.	6.95	7.15	-.20	4.39	5.24	-.85	5.95	6.03	-.08	.563	-.202	.696	10.53
36.	7.39	7.60	-.21	4.55	4.71	-.17	5.69	5.36	.32	.621	.002	.705	13.10
37.	7.54	8.09	-.55	4.68	4.78	-.10	6.29	6.04	.25	.667	.085	.709	14.30
38.	7.94	8.62	-.68	4.88	5.03	-.15	6.31	6.00	.30	.733	.215	.802	15.44
39.	8.56	9.22	-.66	4.84	5.33	-.49	6.25	6.04	.21	.743	.313	.836	16.38
40.	10.23	9.88	.35	5.78	5.85	-.07	6.62	6.39	.23	.787	.303	.826	16.29
41.	10.79	10.57	.22	5.99	5.97	.02	7.33	7.15	.18	.762	.293	.842	18.43
42.	11.20	11.21	-.01	5.27	5.57	-.30	8.42	8.02	.40	.732	.339	.884	20.46
43.	11.55	11.79	-.24	5.12	5.32	-.20	8.67	8.47	.20	.734	.395	.909	22.56
44.	12.17	12.35	-.18	5.24	5.28	-.03	9.53	9.31	.22	.732	.409	.921	24.06
45.	12.61	12.89	-.28	5.01	5.20	-.19	10.05	9.79	.26	.726	.425	.931	25.66
46.	13.06	13.41	-.35	5.08	5.16	-.08	10.59	10.35	.23	.718	.432	.938	26.80
47.	13.42	13.92	-.50	5.01	5.11	-.10	11.22	10.93	.28	.705	.431	.944	28.01
48.	13.84	14.40	-.56	4.86	4.99	-.13	11.83	11.54	.29	.695	.422	.950	29.40
49.	14.35	14.85	-.50	4.73	4.83	-.10	12.52	12.13	.38	.674	.427	.956	31.06
50.	14.67	15.27	-.60	4.50	4.64	-.14	13.06	12.73	.33	.654	.410	.961	32.86
51.	15.22	15.65	-.44	4.32	4.47	-.15	13.80	13.34	.46	.622	.394	.965	33.63
52.	15.46	16.01	-.55	4.24	4.40	-.16	14.35	13.90	.45	.585	.358	.967	33.76
53.	15.67	16.34	-.67	4.30	4.44	-.14	14.85	14.52	.33	.522	.281	.965	32.33
54.	16.31	16.61	-.30	4.39	4.59	-.20	15.86	15.36	.50	.403	.137	.962	29.63
55.	16.36	16.63	-.27	4.72	4.81	-.09	16.73	16.13	.51	.286	.082	.959	27.30
56.	16.38	16.99	-.62	4.83	4.93	-.11	17.27	16.62	.56	.231	-.071	.957	26.16
57.	16.43	17.13	-.70	4.73	4.94	-.20	17.49	16.90	.59	.132	-.098	.958	25.90
58.	16.61	17.25	-.64	4.80	4.94	-.14	17.61	17.10	.51	.157	-.130	.959	25.76
59.	16.99	17.36	-.37	4.75	4.92	-.17	18.26	17.26	1.00	.151	-.123	.960	25.82
60.	17.06	17.46	-.40	4.71	5.01	-.31	17.44	17.48	-.04	.140	-.147	.959	25.22
61.	17.40	17.50	-.10	5.19	5.37	-.18	19.56	18.41	1.15	-.021	-.311	.957	23.11
62.	17.33	17.44	-.11	5.66	5.68	-.02	19.90	19.07	.83	-.136	-.424	.956	21.70
63.	17.26	17.33	-.07	5.50	5.68	-.18	19.59	18.95	.64	-.135	-.423	.955	21.36
64.	17.10	17.22	-.13	5.41	5.48	-.06	19.11	18.73	.35	-.120	-.411	.957	21.82
65.	17.32	17.11	.21	5.01	5.15	-.14	19.24	18.67	.57	-.167	-.427	.962	23.08
66.	17.17	16.97	.20	4.70	4.87	-.17	18.89	18.59	.30	-.204	-.447	.967	24.06
67.	17.01	16.81	.20	4.72	4.78	-.06	18.77	18.50	.26	-.229	-.466	.968	24.21
68.	16.80	16.64	.17	4.72	4.82	-.11	18.70	18.51	.19	-.267	-.502	.968	23.70
69.	16.86	16.40	.45	4.93	4.99	-.06	18.72	18.64	.08	-.303	-.552	.967	22.68
70.	16.28	16.14	.14	5.26	5.33	-.07	18.96	18.87	.09	-.301	-.617	.966	21.56
71.	15.99	15.83	.15	5.50	5.55	-.05	19.14	18.86	.29	-.307	-.645	.959	19.80
72.	14.31	15.45	-1.15	5.38	5.43	-.05	19.33	18.74	.58	-.354	-.688	.947	16.63
73.	15.17	15.05	.12	5.85	5.78	.07	19.35	18.93	.43	-.417	-.697	.966	15.66
74.	14.66	14.56	.09	6.30	6.87	-.07	19.02	18.92	.09	-.404	-.767	.940	15.57
75.	14.16	14.06	.10	6.90	6.97	-.07	16.64	16.19	.45	-.432	-.717	.939	14.21
76.	13.67	13.63	.04	7.22	7.24	-.02	16.69	17.45	-.76	-.336	-.672	.921	12.64
77.	13.10	13.21	-.11	7.58	7.67	-.09	17.97	17.61	.37	-.376	-.719	.915	11.70
78.	12.79	12.71	.08	8.26	8.29	-.03	17.93	17.76	.17	-.435	-.756	.905	10.57
79.	12.29	12.21	.08	8.99	8.88	.11	17.31	17.29	.02	-.302	-.745	.875	9.17
80.	11.77	11.80	-.03	9.22	9.17	.05	16.68	16.66	.02	-.251	-.729	.846	9.33
81.	11.53	11.47	.06	9.20	9.13	.07	15.99	16.00	-.01	-.170	-.711	.829	8.63
82.	11.31	11.20	.11	8.87	9.12	-.25	15.32	15.60	-.28	-.173	-.737	.817	7.86
83.	11.19	10.95	.24	9.62	9.20	.42	15.72	15.96	-.24	-.172	-.716	.810	7.54
84.	11.00	10.73	.27	9.45	8.84	.61	14.89	15.07	-.17	-.188	-.716	.817	7.77
85.	10.63	10.43	.20	8.28	8.35	-.07	14.42	14.72	-.30	-.227	-.723	.833	9.00
86.	10.34	10.08	.25	8.29	8.43	-.14	14.65	14.91	-.26	-.299	-.763	.841	7.83
87.	10.01	9.65	.36	9.25	8.74	.51	15.28	15.10	.17	-.343	-.801	.847	7.47
88.	9.88	9.17	.71	8.70	8.85	-.15	14.33	14.74	-.41	-.330	-.811	.825	6.93
89.	8.47	8.80	-.33	9.46	9.42	.05	13.91	13.95	-.04	-.171	-.783	.746	5.95
90.	7.98	8.41	-.43	10.80	10.70	.10	12.60	12.72	-.12	.161	-.737	.657	5.29

MONTH = 12 LATITUDE = 70

AFTER SMOOTHING TEMP AND DENSITY VALUES

ALT	PRESSURE ORIG	PRESSURE NEW	PRESSURE DIF	TEMPERATURE ORIG	TEMPERATURE NEW	TEMPERATURE DIF	DENSITY ORIG	DENSITY NEW	DENSITY DIF	CORRELATION COEFFICIENTS RHT	RTD	RHD	DEPTH
22.	2.16	2.14	.02	3.23	3.23	.00	2.99	2.99	-.00	.434	-.767	.241	4.59
23.	2.67	2.39	.28	3.39	3.33	.06	2.91	2.98	-.07	.497	-.719	.246	5.03
24.	2.62	2.67	-.05	3.42	3.42	.01	3.02	3.12	-.09	.498	-.679	.309	5.64
25.	3.77	2.96	.81	3.64	3.49	.15	3.33	3.16	.17	.653	-.629	.353	6.02
26.	3.66	3.31	.34	3.63	3.53	.10	3.65	2.86	-.21	.745	-.479	.353	7.48
27.	4.00	3.74	.26	3.79	3.62	.16	3.40	2.53	-.13	.765	-.303	.383	9.69
28.	4.07	4.23	-.15	3.96	3.81	.15	3.26	2.48	-.22	.814	-.189	.455	11.69
29.	4.28	4.75	-.47	4.11	4.00	.11	3.68	2.87	-.19	.798	-.073	.542	11.88
30.	4.65	5.27	-.62	4.18	4.18	-.00	3.65	3.58	.06	.735	-.086	.612	11.26
31.	5.01	5.76	-.75	4.30	4.37	-.07	4.36	4.32	.04	.667	-.139	.658	10.77
32.	5.48	6.17	-.69	4.40	4.65	-.25	5.26	5.78	-.52	.457	-.316	.699	9.13
33.	5.94	6.46	-.52	4.49	5.72	-1.23	14.15	7.46	6.68	.255	-.546	.671	7.22
34.	6.05	6.81	-.76	7.93	6.67	1.25	7.42	7.14	.28	.439	-.509	.558	7.13
35.	7.17	7.31	-.14	4.76	5.76	-1.01	5.83	6.09	-.26	.589	-.240	.683	9.82
36.	7.76	7.44	-.09	4.48	5.07	-.16	6.24	5.93	.32	.655	.019	.763	10.87
37.	7.97	8.40	-.43	5.34	5.23	.11	6.25	6.05	.20	.697	.104	.786	14.11
38.	8.44	9.01	-.57	5.25	5.37	-.12	6.31	6.03	.27	.761	.246	.816	16.35
39.	9.18	9.70	-.52	5.19	5.70	-.50	6.20	6.09	.11	.809	.350	.836	18.41
40.	11.20	10.46	.74	6.31	6.29	.02	6.67	6.54	.13	.808	.331	.824	18.01
41.	11.71	11.24	.47	6.51	6.36	.14	7.56	7.47	.09	.777	.317	.844	18.06
42.	11.98	11.96	.02	5.50	5.81	-.31	8.86	8.50	.35	.754	.374	.883	20.39
43.	12.36	12.61	-.25	5.39	5.57	-.18	9.36	9.24	.12	.744	.427	.919	22.78
44.	13.04	13.23	-.19	5.51	5.47	.05	9.97	9.82	.15	.750	.463	.930	24.40
45.	13.51	13.83	-.32	5.18	5.36	-.19	10.62	10.41	.21	.753	.495	.941	26.69
46.	14.02	14.42	-.40	5.29	5.29	-.07	11.15	11.00	.15	.758	.507	.949	28.59
47.	14.41	14.99	-.57	5.18	5.26	-.08	11.86	11.64	.22	.740	.501	.953	30.76
48.	14.68	15.52	-.85	5.07	5.18	-.11	12.63	12.36	.27	.715	.479	.956	30.63
49.	15.45	16.12	-.67	4.96	5.04	-.08	13.46	13.07	.38	.699	.458	.960	31.09
50.	15.79	16.43	-.64	4.70	4.84	-.14	14.09	13.73	.36	.666	.447	.965	33.04
51.	16.29	16.89	-.61	4.52	4.65	-.13	14.82	14.36	.46	.641	.437	.969	35.35
52.	16.52	17.28	-.75	4.38	4.55	-.17	15.42	14.93	.48	.613	.408	.970	35.97
53.	16.73	17.63	-.90	4.43	4.57	-.14	15.94	15.58	.37	.553	.333	.970	34.85
54.	17.50	17.93	-.43	4.46	4.70	-.24	17.16	16.47	.69	.430	.189	.966	31.88
55.	17.53	18.17	-.64	4.84	4.95	-.11	18.06	17.32	.75	.304	.033	.962	30.21
56.	17.52	18.35	-.83	4.98	5.10	-.12	18.63	17.82	.80	.240	-.039	.961	27.78
57.	17.55	18.50	-.96	4.87	5.14	-.26	18.79	18.08	.72	.231	-.058	.961	27.47
58.	17.77	18.65	-.88	5.04	5.20	-.16	19.17	18.36	.81	.196	-.085	.961	26.84
59.	18.25	18.79	-.54	5.01	5.22	-.21	19.71	18.50	1.21	.134	-.085	.961	26.84
60.	18.33	18.92	-.59	4.94	5.33	-.40	19.03	18.81	.22	.161	-.122	.960	26.08
61.	18.78	18.98	-.20	5.52	5.75	-.23	21.27	19.81	1.45	.093	-.207	.957	25.76
62.	15.71	18.93	-.22	6.04	6.09	-.05	21.61	20.49	1.12	-.116	-.395	.955	23.33
63.	18.65	18.83	-.19	5.78	6.06	-.28	21.27	20.50	.77	-.126	-.411	.956	23.20
64.	19.00	18.72	.28	5.74	5.80	-.07	21.26	20.43	.83	-.155	-.425	.960	23.06
65.	18.80	18.58	.22	5.22	5.38	-.16	21.89	20.27	.62	-.194	-.434	.965	24.60
66.	18.63	18.44	.19	4.78	4.99	-.20	21.44	20.05	.40	-.220	-.433	.970	25.58
67.	18.45	18.28	.16	4.73	4.84	-.11	20.32	19.93	.39	-.229	-.447	.972	25.40
68.	18.21	18.10	.10	4.73	4.88	-.15	20.23	19.92	.31	-.256	-.477	.971	24.24
69.	18.30	17.88	.42	5.03	5.12	-.09	21.24	20.04	.19	-.306	-.529	.970	22.36
70.	17.60	17.57	.03	5.43	5.52	-.08	21.51	20.29	.22	-.376	-.597	.968	20.16
71.	17.28	17.20	.07	5.94	6.03	-.09	21.69	20.22	.47	-.369	-.613	.961	17.78
72.	15.54	16.41	-1.27	6.31	6.60	-.29	21.87	20.04	.82	-.340	-.615	.951	15.55
73.	16.33	16.36	-.03	6.35	6.80	.06	21.91	20.28	.62	-.436	-.684	.952	14.90
74.	15.73	15.78	-.05	6.76	6.85	-.10	21.51	20.30	.21	-.536	-.754	.958	15.40
75.	15.13	15.15	-.02	6.68	6.87	-.19	21.08	19.52	.56	-.501	-.741	.959	14.31
76.	14.60	14.58	.02	7.13	7.19	-.06	18.17	18.78	-.60	-.422	-.711	.958	12.90
77.	13.90	14.01	-.11	7.61	7.77	-.16	19.43	18.97	.46	-.474	-.760	.953	12.17
78.	13.54	13.35	.19	8.54	8.58	-.04	19.39	19.13	.26	-.498	-.784	.951	11.97
79.	12.68	12.69	.19	9.50	9.35	.15	18.68	18.62	.04	-.414	-.784	.869	9.38
80.	12.23	12.13	.09	9.78	9.68	.11	17.93	17.86	.07	-.333	-.769	.860	8.60
81.	11.82	11.68	.14	9.63	9.57	.06	16.93	17.01	-.08	-.273	-.751	.841	8.13
82.	11.54	11.29	.25	9.30	9.56	-.25	16.13	16.40	-.27	-.247	-.748	.827	7.78
83.	11.19	10.91	.28	10.14	9.63	.51	14.56	16.31	-.23	-.259	-.763	.892	7.46
84.	11.10	10.49	.60	9.20	9.72	-.52	15.58	15.92	-.33	-.301	-.778	.834	7.56
85.	10.39	10.01	.38	8.75	8.74	.01	15.25	15.62	-.37	-.345	-.806	.856	7.81
86.	9.85	9.39	.45	8.82	8.87	-.05	15.43	15.80	-.37	-.496	-.856	.873	7.68
87.	9.19	8.64	.55	9.09	9.19	-.63	15.86	15.76	.09	-.563	-.892	.876	7.16
88.	8.85	7.84	1.02	8.31	8.22	.09	14.34	14.91	-.56	-.534	-.894	.859	6.31
89.	8.82	7.25	-.43	8.68	8.53	.16	13.25	13.43	-.17	-.267	-.854	.730	4.00
90.	6.28	7.22	-.93	10.61	10.46	.15	11.27	11.43	-.15	.266	-.786	.444	0.48

APPENDIX B

LISTING OF THE REVISED DATA TAPE "SCIDAT-MOD-1" FOR THE PROFILE PROGRAM

The tape contains the following data, identified by code characters at the beginning of each record. Month 13 refers to annual mean values. For code P, D, T, S, R, and RW data, southern latitudes are given by northern hemisphere data displaced six months. Annual mean data and the QBO parameters are the same for both southern and northern hemispheres. For a more complete discussion of the input data, see Section 2 of the Users Manual (Justus, et. al., 1974b).

Code	Data	Description
None	NMC Grid Data	Same as NMC Grid Required by NASA version 4-D program. Data consists of sequential point number followed by the two corresponding NMC grid indices. There are five points per record on the tape.
P	Groves Pressure (nt/m^2)	Month, height, values at latitudes 0, 10, 20, ... 90 exponent. Same format as in Groves report.
D	Groves Density (kg/m^3)	
T	Groves Temperature (^oK)	
S	Stationary Perturbations in monthly means (per mill)	Month, height, longitude, Δp at north latitude, 10, 30, 50, 70, 90, $\Delta\rho$ same, ΔT same.
R	Random pressure, density, and temperature perturbation magnitudes (per mill)	Month, height, Δp at north latitude 10, 30, 50, 70, 90, $\Delta\rho$ same, ΔT same
RW	Random magnitudes wind perturbation (m/s)	Month, height, Δu at north latitude 10, 30, 50, 70, 90, Δv same

Code	Data	Description
QP	QBO pressure parameters - amplitude (per mill) and phase (days after Jan. 0, 1966 when 1st maximum occurs)	Height, amplitude and phase at 10^{o} latitude, amplitude and phase at 30^{o}, ... , amplitude and phase at 90^{o}.
QD	QBO density parameters (as in QP)	
QT	QBO temperature parameters	
QU	QBO eastward wind parameters - amplitude (0.1 m/s) and phase (days after Jan. 0, '66)	
QV	QBO northward wind parameters - (as in QU)	

The tape consists of four NTRAN readable files with an NTRAN end of file after each file. The first file contains the NMC grid data, the second contains the Groves and stationary perturbation data, the third contains the random perturbation data, and the fourth contains the QBO data. The number of words per NTRAN record is 15 for the NMC grid data. Each record contains NMC grid x-y coordinates for 5 points. The total number of NMC grid points is 1977. The NMC grid data file contains a total of 396 records, with the last record containing points 1976 and 1977 and zeros in the remaining words. There are 14 words per record for the Groves data (including the code word), 19 for the stationary perturbations, 18 for the code R data, 13 for the code RW data, and 12 for the quasi-biennial data. The Groves data contains 702 records, the stationary perturbation data contains 1248 records, the code R random data contains 260 records, the code RW random winds data contain 325 records, and the QBO data contain 80 records.

Following is a listing of the data contained on the SCIDAT tape.

NMC GRID DATA

1	15	1	2	16	1	3	17	1	4	18	1	5	19	1
6	20	1	7	21	1	8	22	1	9	23	1	10	24	1
11	25	1	12	26	1	13	27	1	14	28	1	15	29	1
16	30	1	17	31	1	18	32	1	19	33	1	20	14	2
21	15	2	22	16	2	23	17	2	24	18	2	25	19	2
26	20	2	27	21	2	28	22	2	29	23	2	30	24	2
31	25	2	32	26	2	33	27	2	34	28	2	35	29	2
36	30	2	37	31	2	38	32	2	39	33	2	40	34	2
41	13	3	42	14	3	43	15	3	44	16	3	45	17	3
46	18	3	47	19	3	48	20	3	49	21	3	50	22	3
51	23	3	52	24	3	53	25	3	54	26	3	55	27	3
56	28	3	57	29	3	58	30	3	59	31	3	60	32	3
61	33	3	62	34	3	63	35	3	64	12	4	65	13	4
66	14	4	67	15	4	68	16	4	69	17	4	70	18	4
71	19	4	72	20	4	73	21	4	74	22	4	75	23	4
76	24	4	77	25	4	78	26	4	79	27	4	80	28	4
81	29	4	82	30	4	83	31	4	84	32	4	85	33	4
86	34	4	87	35	4	88	36	4	89	11	5	90	12	5
91	13	5	92	14	5	93	15	5	94	16	5	95	17	5
96	18	5	97	19	5	98	20	5	99	21	5	100	22	5
101	23	5	102	24	5	103	25	5	104	26	5	105	27	5
106	28	5	107	29	5	108	30	5	109	31	5	110	32	5
111	33	5	112	34	5	113	35	5	114	36	5	115	37	5
116	10	6	117	11	6	118	12	6	119	13	6	120	14	6
121	15	6	122	16	6	123	17	6	124	18	6	125	19	6
126	20	6	127	21	6	128	22	6	129	23	6	130	24	6
131	25	6	132	26	6	133	27	6	134	28	6	135	29	6
136	30	6	137	31	6	138	32	6	139	33	6	140	34	6
141	35	6	142	36	6	143	37	6	144	38	6	145	9	7
146	10	7	147	11	7	148	12	7	149	13	7	150	14	7
151	15	7	152	16	7	153	17	7	154	18	7	155	19	7
156	20	7	157	21	7	158	22	7	159	23	7	160	24	7
161	25	7	162	26	7	163	27	7	164	28	7	165	29	7
166	30	7	167	31	7	168	32	7	169	33	7	170	34	7
171	35	7	172	36	7	173	37	7	174	38	7	175	39	7
176	8	8	177	9	8	178	10	8	179	11	8	180	12	8
181	13	8	182	14	8	183	15	8	184	16	8	185	17	8
186	18	8	187	19	8	188	20	8	189	21	8	190	22	8
191	23	8	192	24	8	193	25	8	194	26	8	195	27	8
196	28	8	197	29	8	198	30	8	199	31	8	200	32	8
201	33	8	202	34	8	203	35	8	204	36	8	205	37	8
206	38	8	207	39	8	208	40	8	209	7	9	210	8	9
211	9	9	212	10	9	213	11	9	214	12	9	215	13	9
216	14	9	217	15	9	218	16	9	219	17	9	220	18	9
221	19	9	222	20	9	223	21	9	224	22	9	225	23	9
226	24	9	227	25	9	228	26	9	229	27	9	230	28	9
231	29	9	232	30	9	233	31	9	234	32	9	235	33	9
236	34	9	237	35	9	238	36	9	239	37	9	240	38	9

241	39	9	242	40	9	243	41	9	244	6	10	245	7	10
246	8	10	247	9	10	248	10	10	249	11	10	250	12	10
251	13	10	252	14	10	253	15	10	254	16	10	255	17	10
256	18	10	257	19	10	258	20	10	259	21	10	260	22	10
261	23	10	262	24	10	263	25	10	264	26	10	265	27	10
266	28	10	267	29	10	268	30	10	269	31	10	270	32	10
271	33	10	272	34	10	273	35	10	274	36	10	275	37	10
276	38	10	277	39	10	278	40	10	279	41	10	280	42	10
281	5	11	282	6	11	283	7	11	284	8	11	285	9	11
286	10	11	287	11	11	288	12	11	289	13	11	290	14	11
291	15	11	292	16	11	293	17	11	294	18	11	295	19	11
296	20	11	297	21	11	298	22	11	299	23	11	300	24	11
301	25	11	302	26	11	303	27	11	304	28	11	305	29	11
306	30	11	307	31	11	308	32	11	309	33	11	310	34	11
311	35	11	312	36	11	313	37	11	314	38	11	315	39	11
316	40	11	317	41	11	318	42	11	319	43	11	320	4	12
321	5	12	322	6	12	323	7	12	324	8	12	325	9	12
326	10	12	327	11	12	328	12	12	329	13	12	330	14	12
331	15	12	332	16	12	333	17	12	334	18	12	335	19	12
336	20	12	337	21	12	338	22	12	339	23	12	340	24	12
341	25	12	342	26	12	343	27	12	344	28	12	345	29	12
346	30	12	347	31	12	348	32	12	349	33	12	350	34	12
351	35	12	352	36	12	353	37	12	354	38	12	355	39	12
356	40	12	357	41	12	358	42	12	359	43	12	360	44	12
361	3	13	362	4	13	363	5	13	364	6	13	365	7	13
366	8	13	367	9	13	368	10	13	369	11	13	370	12	13
371	13	13	372	14	13	373	15	13	374	16	13	375	17	13
376	18	13	377	19	13	378	20	13	379	21	13	380	22	13
381	23	13	382	24	13	383	25	13	384	26	13	385	27	13
386	28	13	387	29	13	388	30	13	389	31	13	390	32	13
391	33	13	392	34	13	393	35	13	394	36	13	395	37	13
396	38	13	397	39	13	398	40	13	399	41	13	400	42	13
401	43	13	402	44	13	403	45	13	404	2	14	405	3	14
406	4	14	407	5	14	408	6	14	409	7	14	410	8	14
411	9	14	412	10	14	413	11	14	414	12	14	415	13	14
416	14	14	417	15	14	418	16	14	419	17	14	420	18	14
421	19	14	422	20	14	423	21	14	424	22	14	425	23	14
426	24	14	427	25	14	428	26	14	429	27	14	430	28	14
431	29	14	432	30	14	433	31	14	434	32	14	435	33	14
436	34	14	437	35	14	438	36	14	439	37	14	440	38	14
441	39	14	442	40	14	443	41	14	444	42	14	445	43	14
446	44	14	447	45	14	448	46	14	449	1	15	450	2	15
451	3	15	452	4	15	453	5	15	454	6	15	455	7	15
456	8	15	457	9	15	458	10	15	459	11	15	460	12	15
461	13	15	462	14	15	463	15	15	464	16	15	465	17	15
466	18	15	467	19	15	468	20	15	469	21	15	470	22	15
471	23	15	472	24	15	473	25	15	474	26	15	475	27	15
476	28	15	477	29	15	478	30	15	479	31	15	480	32	15
481	33	15	482	34	15	483	35	15	484	36	15	485	37	15
486	38	15	487	39	15	488	40	15	489	41	15	490	42	15
491	43	15	492	44	15	493	45	15	494	46	15	495	47	15
496	1	16	497	2	16	498	3	16	499	4	16	500	5	16
501	6	16	502	7	16	503	8	16	504	9	16	505	10	16
506	11	16	507	12	16	508	13	16	509	14	16	510	15	16
511	16	16	512	17	16	513	18	16	514	19	16	515	20	16
516	21	16	517	22	16	518	23	16	519	24	16	520	25	16
521	26	16	522	27	16	523	28	16	524	29	16	525	30	16

526	31	16	527	32	16	528	33	16	529	34	16	530	35	16
531	36	16	532	37	16	533	38	16	534	39	16	535	40	16
536	41	16	537	42	16	538	43	16	539	44	16	540	45	16
541	46	16	542	47	16	543	1	17	544	2	17	545	3	17
546	4	17	547	5	17	548	6	17	549	7	17	550	8	17
551	9	17	552	10	17	553	11	17	554	12	17	555	13	17
556	14	17	557	15	17	558	16	17	559	17	17	560	18	17
561	19	17	562	20	17	563	21	17	564	22	17	565	23	17
566	24	17	567	25	17	568	26	17	569	27	17	570	28	17
571	29	17	572	30	17	573	31	17	574	32	17	575	33	17
576	34	17	577	35	17	578	36	17	579	37	17	580	38	17
581	39	17	582	40	17	583	41	17	584	42	17	585	43	17
586	44	17	587	45	17	588	46	17	589	47	17	590	1	18
591	2	18	592	3	18	593	4	18	594	5	18	595	6	18
596	7	18	597	8	18	598	9	18	599	10	18	600	11	18
601	12	18	602	13	18	603	14	18	604	15	18	605	16	18
606	17	18	607	18	18	608	19	18	609	20	18	610	21	18
611	22	18	612	23	18	613	24	18	614	25	18	615	26	18
616	27	18	617	28	18	618	29	18	619	30	18	620	31	18
621	32	18	622	33	18	623	34	18	624	35	18	625	36	18
626	37	18	627	38	18	628	39	18	629	40	18	630	41	18
631	42	18	632	43	18	633	44	18	634	45	18	635	46	18
636	47	18	637	1	19	638	2	19	639	3	19	640	4	19
641	5	19	642	6	19	643	7	19	644	8	19	645	9	19
646	10	19	647	11	19	648	12	19	649	13	19	650	14	19
651	15	19	652	16	19	653	17	19	654	18	19	655	19	19
656	20	19	657	21	19	658	22	19	659	23	19	660	24	19
661	25	19	662	26	19	663	27	19	664	28	19	665	29	19
666	30	19	667	31	19	668	32	19	669	33	19	670	34	19
671	35	19	672	36	19	673	37	19	674	38	19	675	39	19
676	40	19	677	41	19	678	42	19	679	43	19	680	44	19
681	45	19	682	46	19	683	47	19	684	1	20	685	2	20
686	3	20	687	4	20	688	5	20	689	6	20	690	7	20
691	8	20	692	9	20	693	10	20	694	11	20	695	12	20
696	13	20	697	14	20	698	15	20	699	16	20	700	17	20
701	18	20	702	19	20	703	20	20	704	21	20	705	22	20
706	23	20	707	24	20	708	25	20	709	26	20	710	27	20
711	28	20	712	29	20	713	30	20	714	31	20	715	32	20
716	33	20	717	34	20	718	35	20	719	36	20	720	37	20
721	38	20	722	39	20	723	40	20	724	41	20	725	42	20
726	43	20	727	44	20	728	45	20	729	46	20	730	47	20
731	1	21	732	2	21	733	3	21	734	4	21	735	5	21
736	6	21	737	7	21	738	8	21	739	9	21	740	10	21
741	11	21	742	12	21	743	13	21	744	14	21	745	15	21
746	16	21	747	17	21	748	18	21	749	19	21	750	20	21
751	21	21	752	22	21	753	23	21	754	24	21	755	25	21
756	26	21	757	27	21	758	28	21	759	29	21	760	30	21
761	31	21	762	32	21	763	33	21	764	34	21	765	35	21
766	36	21	767	37	21	768	38	21	769	39	21	770	40	21
771	41	21	772	42	21	773	43	21	774	44	21	775	45	21
776	46	21	777	47	21	778	1	22	779	2	22	780	3	22
781	4	22	782	5	22	783	6	22	784	7	22	785	8	22
786	9	22	787	10	22	788	11	22	789	12	22	790	13	22
791	14	22	792	15	22	793	16	22	794	17	22	795	18	22
796	19	22	797	20	22	798	21	22	799	22	22	800	23	22
801	24	22	802	25	22	803	26	22	804	27	22	805	28	22
806	29	22	807	30	22	808	31	22	809	32	22	810	33	22

C-2

811	34	22	812	35	22	813	36	22	814	37	22	815	38	22
816	39	22	817	40	22	818	41	22	819	42	22	820	43	22
821	44	22	822	45	22	823	46	22	824	47	22	825	1	23
826	2	23	827	3	23	828	4	23	829	5	23	830	6	23
831	7	23	832	8	23	833	9	23	834	10	23	835	11	23
836	12	23	837	13	23	838	14	23	839	15	23	840	16	23
841	17	23	842	18	23	843	19	23	844	20	23	845	21	23
846	22	23	847	23	23	848	24	23	849	25	23	850	26	23
851	27	23	852	28	23	853	29	23	854	30	23	855	31	23
856	32	23	857	33	23	858	34	23	859	35	23	860	36	23
861	37	23	862	38	23	863	39	23	864	40	23	865	41	23
866	42	23	867	43	23	868	44	23	869	45	23	870	46	23
871	47	23	872	1	24	873	2	24	874	3	24	875	4	24
876	5	24	877	6	24	878	7	24	879	8	24	880	9	24
881	10	24	882	11	24	883	12	24	884	13	24	885	14	24
886	15	24	887	16	24	888	17	24	889	18	24	890	19	24
891	20	24	892	21	24	893	22	24	894	23	24	895	24	24
896	25	24	897	26	24	898	27	24	899	28	24	900	29	24
901	30	24	902	31	24	903	32	24	904	33	24	905	34	24
906	35	24	907	36	24	908	37	24	909	38	24	910	39	24
911	40	24	912	41	24	913	42	24	914	43	24	915	44	24
916	45	24	917	46	24	918	47	24	919	1	25	920	2	25
921	3	25	922	4	25	923	5	25	924	6	25	925	7	25
926	8	25	927	9	25	928	10	25	929	11	25	930	12	25
931	13	25	932	14	25	933	15	25	934	16	25	935	17	25
936	18	25	937	19	25	938	20	25	939	21	25	940	22	25
941	23	25	942	24	25	943	25	25	944	26	25	945	27	25
946	28	25	947	29	25	948	30	25	949	31	25	950	32	25
951	33	25	952	34	25	953	35	25	954	36	25	955	37	25
956	38	25	957	39	25	958	40	25	959	41	25	960	42	25
961	43	25	962	44	25	963	45	25	964	46	25	965	47	25
966	1	26	967	2	26	968	3	26	969	4	26	970	5	26
971	6	26	972	7	26	973	8	26	974	9	26	975	10	26
976	11	26	977	12	26	978	13	26	979	14	26	980	15	26
981	16	26	982	17	26	983	18	26	984	19	26	985	20	26
986	21	26	987	22	26	988	23	26	989	24	26	990	25	26
991	26	26	992	27	26	993	28	26	994	29	26	995	30	26
996	31	26	997	32	26	998	33	26	999	34	26	1000	35	26
1001	36	26	1002	37	26	1003	38	26	1004	39	26	1005	40	26
1006	41	26	1007	42	26	1008	43	26	1009	44	26	1010	45	26
1011	46	26	1012	47	26	1013	1	27	1014	2	27	1015	3	27
1016	4	27	1017	5	27	1018	6	27	1019	7	27	1020	8	27
1021	9	27	1022	10	27	1023	11	27	1024	12	27	1025	13	27
1026	14	27	1027	15	27	1028	16	27	1029	17	27	1030	18	27
1031	19	27	1032	20	27	1033	21	27	1034	22	27	1035	23	27
1036	24	27	1037	25	27	1038	26	27	1039	27	27	1040	28	27
1041	29	27	1042	30	27	1043	31	27	1044	32	27	1045	33	27
1046	34	27	1047	35	27	1048	36	27	1049	37	27	1050	38	27
1051	39	27	1052	40	27	1053	41	27	1054	42	27	1055	43	27
1056	44	27	1057	45	27	1058	46	27	1059	47	27	1060	1	28
1061	2	28	1062	3	28	1063	4	28	1064	5	28	1065	6	28
1066	7	28	1067	8	28	1068	9	28	1069	10	28	1070	11	28
1071	12	28	1072	13	28	1073	14	28	1074	15	28	1075	16	28
1076	17	28	1077	18	28	1078	19	28	1079	20	28	1080	21	28
1081	22	28	1082	23	28	1083	24	28	1084	25	28	1085	26	28
1086	27	28	1087	28	28	1088	29	28	1089	30	28	1090	31	28
1091	32	28	1092	33	28	1093	34	28	1094	35	28	1095	36	28

1096	37	28	1097	38	28	1098	39	28	1099	40	28	1100	41	28
1101	42	28	1102	43	28	1103	44	28	1104	45	28	1105	46	28
1106	47	28	1107	1	29	1108	2	29	1109	3	29	1110	4	29
1111	5	29	1112	6	29	1113	7	29	1114	8	29	1115	9	29
1116	10	29	1117	11	29	1118	12	29	1119	13	29	1120	14	29
1121	15	29	1122	16	29	1123	17	29	1124	18	29	1125	19	29
1126	20	29	1127	21	29	1128	22	29	1129	23	29	1130	24	29
1131	25	29	1132	26	29	1133	27	29	1134	28	29	1135	29	29
1136	30	29	1137	31	29	1138	32	29	1139	33	29	1140	34	29
1141	35	29	1142	36	29	1143	37	29	1144	38	29	1145	39	29
1146	40	29	1147	41	29	1148	42	29	1149	43	29	1150	44	29
1151	45	29	1152	46	29	1153	47	29	1154	1	30	1155	2	30
1156	3	30	1157	4	30	1158	5	30	1159	6	30	1160	7	30
1161	8	30	1162	9	30	1163	10	30	1164	11	30	1165	12	30
1166	13	30	1167	14	30	1168	15	30	1169	16	30	1170	17	30
1171	18	30	1172	19	30	1173	20	30	1174	21	30	1175	22	30
1176	23	30	1177	24	30	1178	25	30	1179	26	30	1180	27	30
1181	28	30	1182	29	30	1183	30	30	1184	31	30	1185	32	30
1186	33	30	1187	34	30	1188	35	30	1189	36	30	1190	37	30
1191	38	30	1192	39	30	1193	40	30	1194	41	30	1195	42	30
1196	43	30	1197	44	30	1198	45	30	1199	46	30	1200	47	30
1201	1	31	1202	2	31	1203	3	31	1204	4	31	1205	5	31
1206	6	31	1207	7	31	1208	8	31	1209	9	31	1210	10	31
1211	11	31	1212	12	31	1213	13	31	1214	14	31	1215	15	31
1216	16	31	1217	17	31	1218	18	31	1219	19	31	1220	20	31
1221	21	31	1222	22	31	1223	23	31	1224	24	31	1225	25	31
1226	26	31	1227	27	31	1228	28	31	1229	29	31	1230	30	31
1231	31	31	1232	32	31	1233	33	31	1234	34	31	1235	35	31
1236	36	31	1237	37	31	1238	38	31	1239	39	31	1240	40	31
1241	41	31	1242	42	31	1243	43	31	1244	44	31	1245	45	31
1246	46	31	1247	47	31	1248	1	32	1249	2	32	1250	3	32
1251	4	32	1252	5	32	1253	6	32	1254	7	32	1255	8	32
1256	9	32	1257	10	32	1258	11	32	1259	12	32	1260	13	32
1261	14	32	1262	15	32	1263	16	32	1264	17	32	1265	18	32
1266	19	32	1267	20	32	1268	21	32	1269	22	32	1270	23	32
1271	24	32	1272	25	32	1273	26	32	1274	27	32	1275	28	32
1276	29	32	1277	30	32	1278	31	32	1279	32	32	1280	33	32
1281	34	32	1282	35	32	1283	36	32	1284	37	32	1285	38	32
1286	39	32	1287	40	32	1288	41	32	1289	42	32	1290	43	32
1291	44	32	1292	45	32	1293	46	32	1294	47	32	1295	1	33
1296	2	33	1297	3	33	1298	4	33	1299	5	33	1300	6	33
1301	7	33	1302	8	33	1303	9	33	1304	10	33	1305	11	33
1306	12	33	1307	13	33	1308	14	33	1309	15	33	1310	16	33
1311	17	33	1312	18	33	1313	19	33	1314	20	33	1315	21	33
1316	22	33	1317	23	33	1318	24	33	1319	25	33	1320	26	33
1321	27	33	1322	28	33	1323	29	33	1324	30	33	1325	31	33
1326	32	33	1327	33	33	1328	34	33	1329	35	33	1330	36	33
1331	37	33	1332	38	33	1333	39	33	1334	40	33	1335	41	33
1336	42	33	1337	43	33	1338	44	33	1339	45	33	1340	46	33
1341	47	33	1342	1	34	1343	2	34	1344	3	34	1345	4	34
1346	5	34	1347	6	34	1348	7	34	1349	8	34	1350	9	34
1351	10	34	1352	11	34	1353	12	34	1354	13	34	1355	14	34
1356	15	34	1357	16	34	1358	17	34	1359	18	34	1360	19	34
1361	20	34	1362	21	34	1363	22	34	1364	23	34	1365	24	34
1366	25	34	1367	26	34	1368	27	34	1369	28	34	1370	29	34
1371	30	34	1372	31	34	1373	32	34	1374	33	34	1375	34	34
1376	35	34	1377	36	34	1378	37	34	1379	38	34	1380	39	34

1381	40	34	1382	41	34	1383	42	34	1384	43	34	1385	44	34	
1386	45	34	1387	46	34	1388	47	34	1389	1	35	1390	2	35	
1391	3	35	1392	4	35	1393	5	35	1394	6	35	1395	7	35	
1396	8	35	1397	9	35	1398	10	35	1399	11	35	1400	12	35	
1401	13	35	1402	14	35	1403	15	35	1404	16	35	1405	17	35	
1406	18	35	1407	19	35	1408	20	35	1409	21	35	1410	22	35	
1411	23	35	1412	24	35	1413	25	35	1414	26	35	1415	27	35	
1416	28	35	1417	29	35	1418	30	35	1419	31	35	1420	32	35	
1421	33	35	1422	34	35	1423	35	35	1424	36	35	1425	37	35	
1426	38	35	1427	39	35	1428	40	35	1429	41	35	1430	42	35	
1431	43	35	1432	44	35	1433	45	35	1434	46	35	1435	47	35	
1436	1	36	1437	2	36	1438	3	36	1439	4	36	1440	5	36	
1441	6	36	1442	7	36	1443	8	36	1444	9	36	1445	10	36	
1446	11	36	1447	12	36	1448	13	36	1449	14	36	1450	15	36	
1451	16	36	1452	17	36	1453	18	36	1454	19	36	1455	20	36	
1456	21	36	1457	22	36	1458	23	36	1459	24	36	1460	25	36	
1461	26	36	1462	27	36	1463	28	36	1464	29	36	1465	30	36	
1466	31	36	1467	32	36	1468	33	36	1469	34	36	1470	35	36	
1471	36	36	1472	37	36	1473	38	36	1474	39	36	1475	40	36	
1476	41	36	1477	42	36	1478	43	36	1479	44	36	1480	45	36	
1481	46	36	1482	47	36	1483	1	37	1484	2	37	1485	3	37	
1486	4	37	1487	5	37	1488	6	37	1489	7	37	1490	8	37	
1491	9	37	1492	10	37	1493	11	37	1494	12	37	1495	13	37	
1496	14	37	1497	15	37	1498	16	37	1499	17	37	1500	18	37	
1501	19	37	1502	20	37	1503	21	37	1504	22	37	1505	23	37	
1506	24	37	1507	25	37	1508	26	37	1509	27	37	1510	28	37	
1511	29	37	1512	30	37	1513	31	37	1514	32	37	1515	33	37	
1516	34	37	1517	35	37	1518	36	37	1519	37	37	1520	38	37	
1521	39	37	1522	40	37	1523	41	37	1524	42	37	1525	43	37	
1526	44	37	1527	45	37	1528	46	37	1529	47	37	1530	2	38	
1531	3	38	1532	4	38	1533	5	38	1534	6	38	1535	7	38	
1536	8	38	1537	9	38	1538	10	38	1539	11	38	1540	12	38	
1541	13	38	1542	14	38	1543	15	38	1544	16	38	1545	17	38	
1546	18	38	1547	19	38	1548	20	38	1549	21	38	1550	22	38	
1551	23	38	1552	24	38	1553	25	38	1554	26	38	1555	27	38	
1556	28	38	1557	29	38	1558	30	38	1559	31	38	1560	32	38	
1561	33	38	1562	34	38	1563	35	38	1564	36	38	1565	37	38	
1566	38	38	1567	39	38	1568	40	38	1569	41	38	1570	42	38	
1571	43	38	1572	44	38	1573	45	38	1574	46	38	1575	3	39	
1576	4	39	1577	5	39	1578	6	39	1579	7	39	1580	8	39	
1581	9	39	1582	10	39	1583	11	39	1584	12	39	1585	13	39	
1586	14	39	1587	15	39	1588	16	39	1589	17	39	1590	18	39	
1591	19	39	1592	20	39	1593	21	39	1594	22	39	1595	23	39	
1596	24	39	1597	25	39	1598	26	39	1599	27	39	1600	28	39	
1601	29	39	1602	30	39	1603	31	39	1604	32	39	1605	33	39	
1606	34	39	1607	35	39	1608	36	39	1609	37	39	1610	38	39	
1611	39	39	1612	40	39	1613	41	39	1614	42	39	1615	43	39	
1616	44	39	1617	45	39	1618	4	40	1619	5	40	1620	6	40	
1621	7	40	1622	8	40	1623	9	40	1624	10	40	1625	11	40	
1626	12	40	1627	13	40	1628	14	40	1629	15	40	1630	16	40	
1631	17	40	1632	18	40	1633	19	40	1634	20	40	1635	21	40	
1636	22	40	1637	23	40	1638	24	40	1639	25	40	1640	26	40	
1641	27	40	1642	28	40	1643	29	40	1644	30	40	1645	31	40	
1646	32	40	1647	33	40	1648	34	40	1649	35	40	1650	36	40	
1651	37	40	1652	38	40	1653	39	40	1654	40	40	1655	41	40	
1656	42	40	1657	43	40	1658	44	40	1659	5	41	1660	6	41	
1661	7	41	1662	8	41	1663	9	41	1664	10	41	1665	11	41	

1666	12	41	1667	13	41	1668	14	41	1669	15	41	1670	16	41	
1671	17	41	1672	18	41	1673	19	41	1674	20	41	1675	21	41	
1676	22	41	1677	23	41	1678	24	41	1679	25	41	1680	26	41	
1681	27	41	1682	28	41	1683	29	41	1684	30	41	1685	31	41	
1686	32	41	1687	33	41	1688	34	41	1689	35	41	1690	36	41	
1691	37	41	1692	38	41	1693	39	41	1694	40	41	1695	41	41	
1696	42	41	1697	43	41	1698	6	42	1699	7	42	1700	8	42	
1701	9	42	1702	10	42	1703	11	42	1704	12	42	1705	13	42	
1706	14	42	1707	15	42	1708	16	42	1709	17	42	1710	18	42	
1711	19	42	1712	20	42	1713	21	42	1714	22	42	1715	23	42	
1716	24	42	1717	25	42	1718	26	42	1719	27	42	1720	28	42	
1721	29	42	1722	30	42	1723	31	42	1724	32	42	1725	33	42	
1726	34	42	1727	35	42	1728	36	42	1729	37	42	1730	38	42	
1731	39	42	1732	40	42	1733	41	42	1734	42	42	1735	7	43	
1736	8	43	1737	9	43	1738	10	43	1739	11	43	1740	12	43	
1741	13	43	1742	14	43	1743	15	43	1744	16	43	1745	17	43	
1746	18	43	1747	19	43	1748	20	43	1749	21	43	1750	22	43	
1751	23	43	1752	24	43	1753	25	43	1754	26	43	1755	27	43	
1756	28	43	1757	29	43	1758	30	43	1759	31	43	1760	32	43	
1761	33	43	1762	34	43	1763	35	43	1764	36	43	1765	37	43	
1766	38	43	1767	39	43	1768	40	43	1769	41	43	1770	8	44	
1771	9	44	1772	10	44	1773	11	44	1774	12	44	1775	13	44	
1776	14	44	1777	15	44	1778	16	44	1779	17	44	1780	18	44	
1781	19	44	1782	20	44	1783	21	44	1784	22	44	1785	23	44	
1786	24	44	1787	25	44	1788	26	44	1789	27	44	1790	28	44	
1791	29	44	1792	30	44	1793	31	44	1794	32	44	1795	33	44	
1796	34	44	1797	35	44	1798	36	44	1799	37	44	1800	38	44	
1801	39	44	1802	40	44	1803	9	45	1804	10	45	1805	11	45	
1806	12	45	1807	13	45	1808	14	45	1809	15	45	1810	16	45	
1811	17	45	1812	18	45	1813	19	45	1814	20	45	1815	21	45	
1816	22	45	1817	23	45	1818	24	45	1819	25	45	1820	26	45	
1821	27	45	1822	28	45	1823	29	45	1824	30	45	1825	31	45	
1826	32	45	1827	33	45	1828	34	45	1829	35	45	1830	36	45	
1831	37	45	1832	38	45	1833	39	45	1834	10	46	1835	11	46	
1836	12	46	1837	13	46	1838	14	46	1839	15	46	1840	16	46	
1841	17	46	1842	18	46	1843	19	46	1844	20	46	1845	21	46	
1846	22	46	1847	23	46	1848	24	46	1849	25	46	1850	26	46	
1851	27	46	1852	28	46	1853	29	46	1854	30	46	1855	31	46	
1856	32	46	1857	33	46	1858	34	46	1859	35	46	1860	36	46	
1861	37	46	1862	38	46	1863	1.	47	1864	12	47	1865	13	47	
1866	14	47	1867	15	47	1868	16	47	1869	17	47	1870	18	47	
1871	19	47	1872	20	47	1873	21	47	1874	22	47	1875	23	47	
1876	24	47	1877	25	47	1878	26	47	1879	27	47	1880	28	47	
1881	29	47	1882	30	47	1883	31	47	1884	32	47	1885	33	47	
1886	34	47	1887	35	47	1888	36	47	1889	37	47	1890	12	48	
1891	13	48	1892	14	48	1893	15	48	1894	16	48	1895	17	48	
1896	18	48	1897	19	48	1898	20	48	1899	21	48	1900	22	48	
1901	23	48	1902	24	48	1903	25	48	1904	26	48	1905	27	48	
1906	28	48	1907	29	48	1908	30	48	1909	31	48	1910	32	48	
1911	33	48	1912	34	48	1913	35	48	1914	36	48	1915	13	49	
1916	14	49	1917	15	49	1918	16	49	1919	17	49	1920	18	49	
1921	19	49	1922	20	49	1923	21	49	1924	22	49	1925	23	49	
1926	24	49	1927	25	49	1928	26	49	1929	27	49	1930	28	49	
1931	29	49	1932	30	49	1933	31	49	1934	32	49	1935	33	49	
1936	34	49	1937	35	49	1938	14	50	1939	15	50	1940	16	50	
1941	17	50	1942	18	50	1943	19	50	1944	20	50	1945	21	50	
1946	22	50	1947	23	50	1948	24	50	1949	25	50	1950	26	50	

```
1951    27    50 1952    28    50 1953    29    50 1954    30    50 1955    31    50
1956    32    50 1957    33    50 1958    34    50 1959    15    51 1960    16    51
1961    17    51 1962    18    51 1963    19    51 1964    20    51 1965    21    51
1966    22    51 1967    23    51 1968    24    51 1969    25    51 1970    26    51
1971    27    51 1972    28    51 1973    29    51 1974    30    51 1975    31    51
1976    32    51 1977    33    51     0     0     0     0     0     0     0     0     0
----END OF FILE WRITTEN----

***GROVES DATA, CODE P,D,OR T***
P   1  25   250  247  244  239  237  241  244  240  238  237    1
P   1  30   118  117  114  112  111  112  111  105  101  100    1
P   1  35   582  576  562  546  529  527  509  472  450  442    0
P   1  40   299  295  286  275  261  254  237  216  203  199    0
P   1  45   157  155  152  146  136  127  116  103   95   93    0
P   1  50   842  832  816  778  720  659  587  515  472  457   -1
P   1  55   454  449  442  420  383  345  306  266  242  234   -1
P   1  60   241  237  232  217  198  177  155  134  121  117   -1
P   1  65   122  119  117  110  100   89   79   67   60   57   -1
P   1  70   577  561  549  519  481  435  382  317  278  265   -2
P   1  75   255  249  243  236  222  207  183  148  127  120   -2
P   1  80   110  108  105  102  100   95   84   67   57   53   -2
P   1  85   471  463  446  440  437  429  384  305  258  242   -3
P   1  90   197  194  187  184  190  191  174  138  116  109   -3
P   1  95   803  791  767  778  833  873  813  646  546  512   -4
P   1 100   350  345  338  345  379  401  376  301  256  241   -4
P   1 105   168  164  160  163  177  190  181  145  123  116   -4
P   1 110   898  889  856  843  899  939  887  701  589  552   -5
P   2  25   250  246  242  239  239  243  241  231  225  223    1
P   2  30   118  116  114  112  111  112  111  105  101  100    1
P   2  35   581  572  560  543  531  523  517  485  466  459    0
P   2  40   298  293  286  274  264  255  246  227  216  212    0
P   2  45   157  156  152  144  137  130  122  110  103  100    0
P   2  50   848  839  820  773  734  683  625  546  499  483   -1
P   2  55   458  455  443  413  390  359  325  279  251  242   -1
P   2  60   243  238  231  215  202  185  165  140  125  120   -1
P   2  65   122  119  114  106  100   92   83   69   61   58   -1
P   2  70   577  551  534  504  482  450  397  321  275  260   -2
P   2  75   256  245  240  229  223  211  188  147  122  114   -2
P   2  80   111  106  105  102  101   97   86   66   54   50   -2
P   2  85   469  448  451  439  440  434  393  295  236  217   -3
P   2  90   200  188  188  187  191  192  175  133  108   99   -3
P   2  95   855  802  797  784  814  843  792  600  485  446   -4
P   2 100   395  364  362  357  366  377  359  278  229  213   -4
P   2 105   199  182  178  171  174  179  174  135  112  104   -4
P   2 110   113  101   96   91   91   93   90   71   60   56   -4
P   3  25   251  246  244  240  240  243  238  225  217  215    1
P   3  30   118  117  115  113  112  112  110  105  102  101    1
P   3  35   582  575  566  552  533  529  521  501  489  485    0
P   3  40   299  297  290  279  267  262  255  242  234  232    0
P   3  45   159  158  154  146  139  135  130  121  116  114    0
P   3  50   860  859  833  781  741  718  675  616  581  569   -1
P   3  55   465  461  446  416  392  380  354  319  298  291   -1
P   3  60   244  241  231  214  203  196  181  162  151  147   -1
P   3  65   121  117  113  106  101   98   90   79   72   70   -1
P   3  70   569  547  528  503  487  475  434  372  335  322   -2
P   3  75   255  240  237  231  225  223  205  171  151  144   -2
P   3  80   110  105  105  103  102  102   94   76   65   62   -2
```

P	3	85	476	444	450	446	438	444	420	339	290	274	-3
P	3	90	206	191	191	188	187	191	182	146	124	117	-3
P	3	95	903	811	802	789	785	804	783	645	562	535	-4
P	3	100	419	374	362	354	354	365	355	298	264	252	-4
P	3	105	213	183	175	169	167	174	177	153	139	134	-4
P	3	110	122	104	96	89	88	94	98	86	79	76	-4
P	4	25	251	250	246	244	241	241	240	239	238	238	1
P	4	30	119	119	117	116	114	114	113	111	110	109	1
P	4	35	590	588	583	570	554	553	545	522	508	504	0
P	4	40	305	306	300	291	282	282	273	254	243	239	0
P	4	45	163	162	159	153	148	149	142	130	123	120	0
P	4	50	886	883	861	825	801	804	761	686	641	626	-1
P	4	55	478	473	462	439	427	430	407	363	337	328	-1
P	4	60	250	247	240	229	223	225	210	188	175	170	-1
P	4	65	123	121	119	114	111	112	106	93	85	83	-1
P	4	70	575	568	565	551	539	546	511	448	410	398	-2
P	4	75	253	250	257	253	250	253	240	209	190	184	-2
P	4	80	110	109	113	114	112	114	108	93	84	81	-2
P	4	85	479	471	494	493	478	475	458	392	352	339	-3
P	4	90	212	206	213	212	198	192	184	158	142	137	-3
P	4	95	920	880	900	873	813	769	754	658	600	581	-4
P	4	100	416	386	386	380	359	348	341	305	283	276	-4
P	4	105	202	182	178	172	165	167	176	164	157	154	-4
P	4	110	112	98	93	89	86	92	102	99	97	97	-4
P	5	25	251	254	250	249	247	246	249	254	257	258	1
P	5	30	120	120	120	118	117	117	118	120	121	122	1
P	5	35	595	598	595	584	576	577	581	586	589	590	0
P	5	40	309	311	307	299	298	300	299	292	288	286	0
P	5	45	164	165	163	159	158	160	159	155	153	152	0
P	5	50	889	896	882	859	861	880	869	832	810	802	-1
P	5	55	480	481	475	463	464	474	470	456	448	445	-1
P	5	60	253	254	248	242	244	250	248	239	234	232	-1
P	5	65	126	127	125	122	122	126	125	123	122	121	-1
P	5	70	582	597	600	587	591	607	608	596	589	586	-2
P	5	75	254	263	271	268	267	276	280	283	285	285	-2
P	5	80	111	115	118	115	115	118	121	121	121	121	-2
P	5	85	489	496	505	485	464	459	472	477	480	481	-3
P	5	90	213	214	215	199	181	169	170	170	170	170	-3
P	5	95	887	899	901	819	700	619	622	649	665	671	-4
P	5	100	379	379	382	351	308	276	280	292	299	302	-4
P	5	105	172	172	175	163	145	135	145	162	172	176	-4
P	5	110	91	88	89	84	78	79	89	100	107	109	-4
P	6	25	251	253	253	253	256	258	260	265	268	269	1
P	6	30	119	120	121	121	122	123	125	128	130	130	1
P	6	35	592	597	597	599	602	611	627	642	651	654	0
P	6	40	306	308	306	308	311	318	326	330	332	333	0
P	6	45	161	163	162	163	166	171	176	178	179	180	0
P	6	50	869	881	878	886	905	935	965	974	979	981	-1
P	6	55	468	474	474	477	487	508	528	537	542	544	-1
P	6	60	248	251	249	251	258	271	282	288	292	293	-1
P	6	65	125	127	126	125	128	137	144	150	154	155	-1
P	6	70	585	599	592	593	607	652	695	731	753	760	-2
P	6	75	255	265	264	262	265	286	313	335	348	353	-2
P	6	80	112	114	114	111	110	117	128	136	141	142	-2
P	6	85	486	487	479	456	423	423	453	483	501	507	-3
P	6	90	208	206	201	183	156	141	145	152	156	158	-3
P	6	95	853	852	833	737	577	480	489	526	548	556	-4

P	6	100	360	362	361	327	260	214	216	230	238	241	-4
P	6	105	162	164	167	156	127	108	112	124	131	134	-4
P	6	110	840	837	867	836	719	640	689	771	820	837	-5
P	7	25	250	252	256	259	263	265	269	274	277	278	1
P	7	30	118	119	122	123	125	128	130	133	135	135	1
P	7	35	582	591	600	605	622	640	653	662	667	669	0
P	7	40	299	301	305	309	318	331	340	345	348	349	0
P	7	45	157	158	161	163	169	177	184	185	186	186	0
P	7	50	84	85	87	88	91	96	101	102	103	103	0
P	7	55	454	457	466	470	492	521	551	564	572	574	-1
P	7	60	241	242	245	246	257	275	295	307	314	317	-1
P	7	65	122	123	123	122	128	139	152	159	163	165	-1
P	7	70	577	578	573	562	595	654	730	779	808	818	-2
P	7	75	255	256	253	245	257	284	322	348	364	369	-2
P	7	80	110	110	109	104	104	111	126	137	144	146	-2
P	7	85	471	471	460	423	395	393	425	452	468	474	-3
P	7	90	197	198	191	170	145	131	131	135	137	138	-3
P	7	95	803	812	793	688	569	479	458	456	455	454	-4
P	7	100	350	357	354	317	262	218	198	191	187	185	-4
P	7	105	168	170	168	153	132	110	101	98	96	96	-4
P	7	110	898	903	895	835	725	626	576	559	549	546	-5
P	8	25	250	253	257	260	264	265	270	276	280	281	1
P	8	30	118	120	122	123	126	128	130	132	133	134	1
P	8	35	581	592	595	606	623	640	648	650	651	652	0
P	8	40	298	301	303	307	319	330	335	332	330	330	0
P	8	45	157	158	158	161	169	175	178	177	176	176	0
P	8	50	848	844	852	863	907	946	971	963	958	957	-1
P	8	55	458	457	454	462	485	509	526	525	524	524	-1
P	8	60	243	240	240	241	252	266	280	281	282	282	-1
P	8	65	122	123	121	120	124	132	141	145	147	148	-1
P	8	70	577	584	579	563	571	615	676	709	729	735	-2
P	8	75	256	268	261	251	250	268	295	316	329	333	-2
P	8	80	111	116	116	109	104	106	115	125	131	133	-2
P	8	85	469	506	501	459	408	390	397	430	450	456	-3
P	8	90	200	214	214	189	158	140	134	138	140	141	-3
P	8	95	855	931	902	796	660	567	504	489	480	477	-4
P	8	100	395	421	412	359	301	255	216	199	189	185	-4
P	8	105	199	213	199	171	145	122	102	91	84	82	-4
P	8	110	113	117	109	90	75	63	52	45	41	39	-4
P	9	25	251	253	254	257	259	260	260	262	263	264	1
P	9	30	118	120	121	122	124	124	124	124	124	124	1
P	9	35	582	589	596	597	607	613	610	599	592	590	0
P	9	40	299	301	303	302	307	313	310	301	296	294	0
P	9	45	159	159	160	158	162	165	163	157	153	152	0
P	9	50	860	858	858	845	865	883	875	840	819	812	-1
P	9	55	465	464	461	451	461	471	467	450	440	436	-1
P	9	60	244	245	242	234	235	241	243	237	233	232	-1
P	9	65	121	124	125	118	115	117	121	120	119	119	-1
P	9	70	569	600	606	560	528	537	573	582	587	589	-2
P	9	75	255	275	283	255	233	234	252	262	268	270	-2
P	9	80	110	122	126	112	98	96	103	110	114	116	-2
P	9	85	476	527	550	477	405	378	399	430	449	455	-3
P	9	90	206	230	236	200	166	150	153	164	171	173	-3
P	9	95	90	101	104	87	72	63	62	64	65	66	-3
P	9	100	419	480	487	404	328	280	265	261	259	258	-4
P	9	105	213	246	247	199	158	131	119	110	105	103	-4
P	9	110	122	141	138	107	82	66	56	48	43	42	-4

P	10	25	251	250	251	253	254	254	250	243	239	237	1
P	10	30	119	119	119	120	119	118	116	113	111	111	1
P	10	35	590	588	585	583	578	564	556	539	529	525	0
P	10	40	305	302	298	295	289	281	274	264	258	256	0
P	10	45	163	161	157	153	150	145	140	135	132	131	0
P	10	50	886	869	850	824	801	767	740	708	689	682	-1
P	10	55	478	468	457	439	426	403	389	374	365	362	-1
P	10	60	250	246	240	228	217	204	199	191	186	185	-1
P	10	65	123	123	122	113	106	99	99	95	93	92	-1
P	10	70	575	586	594	549	487	454	466	452	444	441	-2
P	10	75	253	265	274	248	217	202	213	207	203	202	-2
P	10	80	110	117	122	110	94	87	93	92	91	91	-2
P	10	85	479	515	533	471	402	371	398	400	401	402	-3
P	10	90	212	228	233	202	172	158	169	170	171	171	-3
P	10	95	92	99	102	88	75	69	74	74	74	74	-3
P	10	100	416	462	480	413	343	310	325	316	311	309	-4
P	10	105	202	230	242	207	172	151	150	139	132	130	-4
P	10	110	112	130	137	116	93	78	72	61	54	52	-4
P	11	25	251	250	248	247	246	245	244	239	236	235	1
P	11	30	120	119	118	116	115	113	111	109	108	107	1
P	11	35	595	589	578	562	546	529	518	511	507	505	0
P	11	40	309	303	294	283	270	255	247	244	242	242	0
P	11	45	164	161	155	148	139	129	123	122	121	121	0
P	11	50	889	869	838	792	736	666	633	632	631	631	-1
P	11	55	480	470	452	425	388	346	330	333	335	335	-1
P	11	60	253	248	239	221	200	177	168	169	170	170	-1
P	11	65	126	124	120	110	98	87	84	84	84	84	-1
P	11	70	582	576	571	525	464	413	404	396	391	390	-2
P	11	75	254	255	256	237	210	191	190	184	180	179	-2
P	11	80	111	112	113	104	93	86	87	84	82	82	-2
P	11	85	489	495	492	448	402	381	393	387	383	382	-3
P	11	90	213	216	212	192	175	169	178	176	175	174	-3
P	11	95	887	899	888	826	774	772	819	811	806	805	-4
P	11	100	379	395	405	384	365	364	386	372	364	361	-4
P	11	105	172	184	195	192	183	180	184	174	168	166	-4
P	11	110	91	100	109	106	99	93	91	81	75	73	-4
P	12	25	251	247	245	241	239	241	242	240	239	238	1
P	12	30	119	118	116	113	111	112	110	107	105	105	1
P	12	35	592	584	565	552	530	524	506	486	474	470	0
P	12	40	306	301	289	279	263	252	237	227	221	219	0
P	12	45	161	159	152	147	136	125	116	110	106	105	0
P	12	50	869	854	827	788	723	645	586	563	549	545	-1
P	12	55	468	460	442	422	382	336	303	294	289	287	-1
P	12	60	248	243	234	221	198	172	154	150	148	147	-1
P	12	65	125	122	117	111	99	86	78	75	73	73	-1
P	12	70	585	568	556	533	477	420	381	357	343	338	-2
P	12	75	255	250	245	239	220	199	183	167	157	154	-2
P	12	80	112	109	108	105	99	91	85	77	72	71	-2
P	12	85	486	477	459	449	433	411	388	353	332	325	-3
P	12	90	208	204	199	194	191	185	179	162	152	148	-3
P	12	95	853	833	807	822	849	867	841	764	718	702	-4
P	12	100	360	353	353	368	393	412	405	361	335	326	-4
P	12	105	162	161	161	173	188	201	195	172	158	154	-4
P	12	110	840	850	872	912	962	992	947	816	737	711	-5
P	13	25	251	250	249	248	249	250	251	249	248	248	1
P	13	30	119	119	118	118	117	118	118	116	115	115	1
P	13	35	588	588	583	576	570	570	567	555	550	549	0

P	13	40	303	302	298	292	288	286	282	273	271	271	0
P	13	45	161	160	157	154	151	149	145	139	138	138	0
P	13	50	865	861	848	824	808	792	769	734	730	729	-1
P	13	55	466	464	456	440	430	420	408	389	388	389	-1
P	13	60	246	244	239	229	223	218	212	202	201	201	-1
P	13	65	123	122	120	115	111	109	106	102	100	99	-1
P	13	70	576	576	570	545	525	518	513	489	462	453	-2
P	13	75	256	258	258	247	237	236	236	224	202	195	-2
P	13	80	111	112	113	108	103	102	103	98	88	85	-2
P	13	85	482	486	488	460	433	425	428	405	375	365	-3
P	13	90	206	208	207	193	178	173	174	164	152	147	-3
P	13	95	877	882	877	814	752	724	723	678	626	608	-4
P	13	100	384	386	385	359	334	322	321	300	276	268	-4
P	13	105	182	182	181	169	158	153	154	143	132	128	-4
P	13	110	960	959	943	873	811	792	801	748	690	669	-5
D	1	25	400	393	392	381	377	382	395	403	408	409	-4
D	1	30	178	175	173	171	171	176	179	176	174	174	-4
D	1	35	820	815	805	800	791	812	813	772	747	739	-5
D	1	40	404	400	386	374	367	371	361	338	324	320	-5
D	1	45	207	203	196	189	180	177	168	153	144	141	-5
D	1	50	108	107	104	100	94	89	81	72	67	65	-5
D	1	55	585	581	575	554	511	467	420	367	335	325	-6
D	1	60	327	325	320	302	277	248	218	192	176	171	-6
D	1	65	182	179	174	164	146	131	115	100	91	88	-6
D	1	70	952	926	906	837	755	661	581	497	447	430	-7
D	1	75	444	431	421	403	365	330	289	241	212	203	-7
D	1	80	195	190	187	180	171	157	137	110	94	88	-7
D	1	85	850	832	809	791	760	722	634	503	424	398	-8
D	1	90	370	365	349	339	333	320	283	225	190	179	-8
D	1	95	148	146	139	138	141	143	131	103	86	81	-8
D	1	100	580	574	560	571	622	645	593	474	403	379	-9
D	1	105	242	236	234	244	271	294	278	224	192	181	-9
D	1	110	108	106	104	107	119	128	124	101	87	83	-9
D	2	25	400	393	386	379	382	391	387	377	371	369	-4
D	2	30	178	174	172	171	173	178	175	168	164	162	-4
D	2	35	823	813	799	791	790	799	804	765	742	734	-5
D	2	40	403	393	386	375	368	366	366	348	337	334	-5
D	2	45	205	201	195	187	181	176	173	162	155	153	-5
D	2	50	108	106	104	99	95	90	85	77	72	71	-5
D	2	55	591	592	580	545	521	483	446	390	356	345	-6
D	2	60	334	332	325	303	284	261	235	203	184	177	-6
D	2	65	182	181	174	161	149	136	122	105	95	91	-6
D	2	70	943	914	873	809	760	694	612	516	458	439	-7
D	2	75	444	425	408	382	364	338	300	243	209	197	-7
D	2	80	198	189	185	177	171	160	141	111	93	87	-7
D	2	85	845	812	817	785	766	738	654	494	398	366	-8
D	2	90	360	343	347	342	341	331	295	222	178	164	-8
D	2	95	147	140	139	137	142	145	133	99	79	72	-8
D	2	100	610	571	574	574	598	619	578	439	356	328	-9
D	2	105	264	246	249	247	257	266	254	195	160	148	-9
D	2	110	125	114	114	113	116	118	114	89	74	69	-9
D	3	25	399	387	388	380	381	390	381	354	338	332	-4
D	3	30	178	175	174	172	174	177	173	162	155	153	-4
D	3	35	827	811	805	802	787	795	785	755	737	731	-5
D	3	40	400	397	390	382	371	368	365	356	351	349	-5
D	3	45	204	202	198	191	183	180	177	170	166	164	-5
D	3	50	109	109	106	101	96	94	90	84	80	79	-5

D	3	55	605	604	591	555	524	509	479	439	415	407	-6
D	3	60	340	343	331	305	288	276	258	233	218	213	-6
D	3	65	185	182	174	161	150	145	134	121	113	111	-6
D	3	70	931	912	863	800	760	735	668	594	550	535	-7
D	3	75	440	417	400	384	368	358	325	282	256	248	-7
D	3	80	195	186	183	177	174	172	155	129	113	108	-7
D	3	85	841	793	803	796	778	776	724	589	508	481	-8
D	3	90	361	345	350	345	340	346	323	255	214	201	-8
D	3	95	153	140	142	139	138	141	136	108	91	86	-8
D	3	100	644	591	583	574	578	589	559	451	386	365	-9
D	3	105	279	249	247	248	247	251	241	200	175	167	-9
D	3	110	131	117	114	110	110	112	111	94	84	80	-9
D	4	25	398	394	386	383	379	378	375	376	377	377	-4
D	4	30	178	178	174	174	173	173	173	174	175	175	-4
D	4	35	829	823	822	814	798	793	802	793	788	786	-5
D	4	40	406	406	402	396	384	381	377	364	356	354	-5
D	4	45	208	208	205	198	192	192	187	175	168	165	-5
D	4	50	112	112	110	106	103	103	98	89	84	82	-5
D	4	55	623	622	610	582	563	565	541	485	451	440	-6
D	4	60	352	350	340	323	311	314	294	264	246	240	-6
D	4	65	189	186	179	168	164	165	155	139	129	126	-6
D	4	70	958	942	903	864	838	846	788	697	642	624	-7
D	4	75	440	435	435	416	409	412	389	341	312	303	-7
D	4	80	193	190	196	196	195	200	186	162	148	143	-7
D	4	85	826	821	864	872	871	889	853	730	656	632	-8
D	4	90	368	364	382	388	373	374	353	301	270	259	-8
D	4	95	159	157	163	159	147	139	135	115	103	99	-8
D	4	100	673	648	669	654	603	560	522	445	399	383	-9
D	4	105	282	265	269	265	253	234	223	192	173	167	-9
D	4	110	126	116	115	114	108	107	106	95	88	86	-9
D	5	25	396	400	391	389	384	381	385	398	406	408	-4
D	5	30	178	180	177	177	177	176	178	181	183	183	-4
D	5	35	829	832	835	830	816	811	823	857	877	884	-5
D	5	40	411	414	411	402	396	395	399	399	399	399	-5
D	5	45	212	212	209	204	202	201	201	200	199	199	-5
D	5	50	113	114	112	109	109	110	109	104	101	100	-5
D	5	55	621	628	624	608	605	616	606	586	574	570	-6
D	5	60	350	351	344	334	338	344	341	324	314	310	-6
D	5	65	193	191	184	180	179	184	183	178	175	174	-6
D	5	70	984	985	958	930	935	957	945	906	883	875	-7
D	5	75	444	458	465	457	456	469	466	467	468	468	-7
D	5	80	191	200	208	207	211	221	225	224	223	223	-7
D	5	85	838	872	897	894	903	941	978	990	997	1000	-8
D	5	90	384	383	390	375	366	365	372	365	361	359	-8
D	5	95	163	166	166	151	131	119	119	122	124	124	-8
D	5	100	663	670	665	602	510	439	424	422	421	420	-9
D	5	105	262	266	270	246	210	178	173	178	181	182	-9
D	5	110	111	112	115	107	94	85	85	88	90	90	-9
D	6	25	397	400	395	392	396	399	397	403	407	408	-4
D	6	30	177	178	180	181	182	183	183	187	189	190	-4
D	6	35	828	835	845	848	848	851	870	897	913	919	-5
D	6	40	411	413	412	414	413	416	426	436	442	444	-5
D	6	45	210	211	209	209	210	215	219	223	225	226	-5
D	6	50	111	112	111	112	114	117	119	120	121	121	-5
D	6	55	606	617	619	622	631	649	669	673	675	676	-6
D	6	60	339	341	343	347	356	368	379	380	381	381	-6
D	6	65	187	189	188	188	193	202	209	213	215	216	-6

D	6	70	98	99	97	97	100	106	110	113	115	115	-6
D	6	75	447	463	458	461	474	511	547	580	600	606	-7
D	6	80	193	202	204	204	211	232	257	275	286	289	-7
D	6	85	85	87	87	86	87	94	104	113	118	120	-7
D	6	90	384	380	372	353	335	333	350	365	374	377	-8
D	6	95	160	158	152	134	109	96	99	105	109	110	-8
D	6	100	636	633	616	535	412	330	328	345	355	359	-9
D	6	105	252	256	252	224	171	136	132	140	145	146	-9
D	6	110	106	109	113	104	83	67	66	69	71	71	-9
D	7	25	400	399	401	402	408	407	407	413	417	418	-4
D	7	30	178	179	182	185	186	187	190	194	196	197	-4
D	7	35	820	840	856	863	881	891	903	919	929	932	-5
D	7	40	404	410	415	419	428	437	444	452	457	458	-5
D	7	45	207	208	209	211	217	226	230	231	232	232	-5
D	7	50	108	109	111	112	116	121	125	125	125	125	-5
D	7	55	585	591	609	615	641	672	695	700	703	704	-6
D	7	60	327	328	338	343	357	374	393	400	404	406	-6
D	7	65	182	183	186	188	195	207	219	225	229	230	-6
D	7	70	95	95	95	95	100	108	117	122	125	126	-6
D	7	75	444	446	440	434	468	524	587	625	648	655	-7
D	7	80	195	196	195	191	203	231	265	291	307	312	-7
D	7	85	85	85	84	80	82	89	103	113	119	121	-7
D	7	90	370	370	358	329	302	297	314	332	343	346	-8
D	7	95	148	148	142	122	102	90	91	94	96	96	-8
D	7	100	580	591	581	500	399	333	310	305	302	301	-9
D	7	105	242	247	245	215	178	143	130	125	122	121	-9
D	7	110	108	112	113	103	86	70	62	58	56	55	-9
D	8	25	400	403	406	406	408	403	411	423	430	433	-4
D	8	30	178	179	184	185	188	188	192	196	198	199	-4
D	8	35	823	845	853	872	882	895	907	924	934	938	-5
D	8	40	403	410	417	420	429	440	445	445	445	445	-5
D	8	45	205	208	206	210	219	225	227	225	224	223	-5
D	8	50	108	108	110	111	117	120	122	120	119	118	-5
D	8	55	591	593	594	609	642	666	673	665	660	659	-6
D	8	60	334	326	330	336	353	370	379	373	369	368	-6
D	8	65	182	182	179	182	192	201	208	207	206	206	-6
D	8	70	94	93	93	92	96	102	110	112	113	114	-6
D	8	75	444	455	440	431	445	488	542	568	584	589	-7
D	8	80	198	203	202	194	197	216	244	261	271	275	-7
D	8	85	85	90	89	85	82	84	91	101	107	109	-7
D	8	90	360	384	390	351	305	287	293	321	338	343	-8
D	8	95	147	161	158	139	114	101	96	99	101	101	-8
D	8	100	610	658	659	583	479	408	360	349	342	340	-9
D	8	105	264	287	281	252	214	182	154	142	135	132	-9
D	8	110	125	133	129	112	96	81	68	62	58	57	-9
D	9	25	399	400	399	400	401	403	401	407	411	412	-4
D	9	30	178	180	181	185	185	185	186	188	189	190	-4
D	9	35	827	841	854	863	873	872	871	873	874	875	-5
D	9	40	400	406	412	415	418	424	422	416	412	411	-5
D	9	45	204	206	208	208	211	214	212	205	201	199	-5
D	9	50	109	109	110	109	112	114	113	108	105	104	-5
D	9	55	605	600	606	600	620	631	616	587	570	564	-6
D	9	60	340	336	328	326	340	347	339	323	313	310	-6
D	9	65	185	181	179	175	178	183	182	175	171	169	-6
D	9	70	931	945	939	895	880	903	932	922	916	914	-7
D	9	75	440	460	468	432	409	419	451	454	456	456	-7
D	9	80	195	212	217	196	180	184	200	209	214	216	-7

D	9	85	841	922	967	865	762	744	809	865	899	910	-8
D	9	90	361	403	417	361	302	282	300	329	346	352	-8
D	9	95	153	169	174	147	122	111	113	123	129	131	-8
D	9	100	644	721	741	633	526	464	459	479	491	495	-9
D	9	105	279	318	332	280	233	202	196	197	198	198	-9
D	9	110	131	151	154	127	104	88	83	80	78	78	-9
D	10	25	398	394	391	395	400	402	395	382	374	372	-4
D	10	30	178	178	179	181	182	184	180	175	172	171	-4
D	10	35	829	832	839	843	845	836	827	810	800	796	-5
D	10	40	406	405	404	408	402	393	390	376	371	368	-5
D	10	45	208	206	204	202	199	193	189	183	179	178	-5
D	10	50	112	110	108	106	104	101	97	93	91	90	-5
D	10	55	623	611	598	584	574	550	529	505	491	486	-6
D	10	60	352	341	329	321	313	297	282	271	264	262	-6
D	10	65	189	184	177	167	164	155	149	142	138	136	-6
D	10	70	958	945	928	873	808	754	745	719	703	698	-7
D	10	75	440	448	455	418	372	349	358	345	337	335	-7
D	10	80	193	202	211	192	167	155	164	157	153	151	-7
D	10	85	826	883	928	842	722	669	714	706	701	700	-8
D	10	90	368	396	409	361	303	277	298	302	304	305	-8
D	10	95	159	169	170	147	128	119	128	130	131	132	-8
D	10	100	673	719	731	631	534	502	546	553	557	559	-9
D	10	105	282	310	322	276	237	220	239	241	242	243	-9
D	10	110	126	142	150	132	110	100	104	101	99	99	-9
D	11	25	396	394	389	391	391	392	393	387	383	382	-4
D	11	30	178	177	177	178	178	179	178	173	170	169	-4
D	11	35	829	831	828	823	816	815	805	792	784	782	-5
D	11	40	411	406	399	389	382	372	367	361	357	356	-5
D	11	45	212	208	201	194	185	178	173	169	167	166	-5
D	11	50	113	111	107	102	96	90	85	84	83	83	-5
D	11	55	621	609	585	560	522	473	451	453	454	455	-6
D	11	60	350	343	329	309	286	253	239	241	242	243	-6
D	11	65	193	188	179	165	149	132	124	127	129	129	-6
D	11	70	984	960	926	846	749	654	625	627	628	629	-7
D	11	75	444	439	436	401	354	313	303	299	297	296	-7
D	11	80	191	192	197	183	160	144	144	137	133	131	-7
D	11	85	838	849	861	796	703	654	655	633	620	615	-8
D	11	90	384	390	386	345	304	283	294	288	284	283	-8
D	11	95	163	162	156	141	128	124	131	132	133	133	-8
D	11	100	663	668	651	593	555	559	606	602	600	599	-9
D	11	105	262	270	272	260	252	259	282	281	280	280	-9
D	11	110	111	116	125	123	119	121	129	125	123	122	-9
D	12	25	397	390	385	384	384	380	390	399	404	406	-4
D	12	30	177	175	177	172	172	177	178	176	175	174	-4
D	12	35	828	821	809	801	789	811	805	776	759	753	-5
D	12	40	411	405	392	381	369	372	362	348	340	337	-5
D	12	45	210	207	196	191	180	176	166	158	153	152	-5
D	12	50	111	109	105	101	95	87	80	76	74	73	-5
D	12	55	606	598	576	555	510	458	418	400	389	386	-6
D	12	60	339	332	321	305	279	242	218	214	212	211	-6
D	12	65	187	185	175	164	146	126	113	111	110	109	-6
D	12	70	980	951	918	859	749	642	575	555	543	539	-7
D	12	75	447	435	422	409	361	318	287	269	258	255	-7
D	12	80	193	189	189	184	169	150	138	125	117	115	-7
D	12	85	851	831	808	794	749	691	634	574	538	526	-8
D	12	90	384	378	366	347	327	302	286	260	244	239	-8
D	12	95	160	156	149	145	141	136	131	120	113	111	-8

D	12	100	636	617	605	609	627	633	619	563	529	518	-9
D	12	105	252	244	239	256	281	305	302	272	254	248	-9
D	12	110	106	103	106	114	126	137	137	124	116	114	-9
D	13	25	398	396	392	390	391	392	393	394	396	397	-4
D	13	30	178	178	178	178	179	180	181	180	179	178	-4
D	13	35	828	830	831	831	829	834	838	831	820	816	-5
D	13	40	406	406	403	399	395	396	396	389	387	386	-5
D	13	45	208	207	203	200	197	197	194	188	187	187	-5
D	13	50	110	110	108	106	104	100	100	96	94	94	-5
D	13	55	604	603	597	581	571	559	541	515	514	514	-6
D	13	60	339	336	331	320	314	305	294	281	283	284	-6
D	13	65	186	184	179	172	167	162	157	150	151	151	-6
D	13	70	956	946	921	878	846	824	803	768	776	779	-7
D	13	75	446	445	439	420	404	399	395	377	357	350	-7
D	13	80	195	197	198	191	185	184	185	175	150	142	-7
D	13	85	848	858	868	835	802	802	810	767	711	693	-8
D	13	90	373	377	378	356	333	326	329	311	288	281	-8
D	13	95	158	159	157	145	133	128	129	122	113	110	-8
D	13	100	649	652	648	600	551	528	523	491	453	440	-9
D	13	105	269	271	272	256	239	229	227	210	193	187	-9
D	13	110	118	119	120	114	107	103	103	96	89	86	-9
T	1	25	218	219	217	219	219	220	215	207	204	203	0
T	1	30	231	232	230	229	225	222	216	208	205	204	0
T	1	35	247	246	243	238	233	226	218	213	209	208	0
T	1	40	258	257	258	256	248	238	229	222	214	211	0
T	1	45	265	266	269	268	263	251	242	236	223	219	0
T	1	50	271	272	274	272	268	259	254	250	249	249	0
T	1	55	270	269	268	264	261	257	254	252	254	255	0
T	1	60	257	254	252	251	249	249	248	244	244	244	0
T	1	65	234	232	233	234	237	238	239	232	228	227	0
T	1	70	211	211	211	216	222	229	229	222	200	190	0
T	1	75	200	201	201	204	212	219	220	214	194	187	0
T	1	80	197	198	196	198	204	211	213	211	211	211	0
T	1	85	193	194	192	194	200	207	211	211	211	211	0
T	1	90	185	185	186	189	199	208	214	214	214	214	0
T	1	95	187	187	190	195	203	210	214	216	217	218	0
T	1	100	204	203	204	204	206	210	214	215	216	216	0
T	1	105	231	232	228	222	217	215	217	215	214	213	0
T	1	110	273	276	271	259	248	240	235	229	225	224	0
T	2	25	218	218	218	219	218	217	217	214	200	195	0
T	2	30	231	232	231	228	224	219	220	217	200	194	0
T	2	35	246	245	244	239	234	228	224	221	199	192	0
T	2	40	258	259	258	254	250	243	234	227	205	198	0
T	2	45	268	270	271	268	265	257	247	237	219	213	0
T	2	50	273	275	275	271	269	263	256	247	250	251	0
T	2	55	270	268	266	264	261	259	254	249	248	248	0
T	2	60	253	250	247	247	247	247	245	240	234	232	0
T	2	65	233	228	228	230	234	237	235	228	212	207	0
T	2	70	213	210	213	217	221	226	226	217	195	188	0
T	2	75	201	201	205	209	213	217	218	211	193	187	0
T	2	80	195	195	199	201	205	211	213	207	210	211	0
T	2	85	193	192	192	195	200	205	209	208	207	207	0
T	2	90	193	191	189	190	195	202	207	208	209	209	0
T	2	95	200	197	197	197	197	200	206	209	211	211	0
T	2	100	219	215	213	210	207	206	210	214	216	217	0
T	2	105	251	246	237	230	225	225	228	230	231	232	0
T	2	110	296	290	278	266	258	259	261	261	261	261	0

T	3	25	219	221	219	220	219	217	218	221	198	190	0
T	3	30	231	232	231	230	224	221	222	226	210	205	0
T	3	35	245	247	245	240	236	232	231	231	226	224	0
T	3	40	260	261	259	254	251	248	243	237	245	248	0
T	3	45	271	272	271	266	264	262	255	247	254	256	0
T	3	50	275	274	273	269	268	267	261	255	269	274	0
T	3	55	268	266	263	261	261	260	257	253	254	254	0
T	3	60	250	245	243	245	246	248	245	241	232	229	0
T	3	65	229	225	226	230	234	236	234	228	211	205	0
T	3	70	213	209	213	219	223	225	226	218	198	191	0
T	3	75	202	201	206	210	213	217	219	211	194	188	0
T	3	80	197	196	200	202	203	206	211	207	212	214	0
T	3	85	197	195	195	195	196	199	202	200	199	198	0
T	3	90	198	193	190	189	191	192	196	199	201	201	0
T	3	95	204	199	195	195	196	197	199	205	209	210	0
T	3	100	220	214	210	208	207	209	215	223	228	229	0
T	3	105	255	245	236	227	226	231	245	256	263	265	0
T	3	110	306	291	275	265	263	274	291	303	310	313	0
T	4	25	220	221	222	222	222	222	223	221	211	208	0
T	4	30	233	233	235	232	229	229	228	222	222	222	0
T	4	35	248	249	247	244	242	243	237	229	239	242	0
T	4	40	262	262	260	256	256	258	252	243	255	259	0
T	4	45	273	272	271	269	269	270	266	259	275	280	0
T	4	50	275	274	273	271	272	272	271	267	281	286	0
T	4	55	267	265	264	263	263	265	262	261	264	265	0
T	4	60	248	246	246	247	249	249	249	247	244	243	0
T	4	65	227	227	231	235	236	237	237	234	227	225	0
T	4	70	209	210	218	222	224	225	226	224	209	204	0
T	4	75	200	200	206	212	213	214	215	213	202	198	0
T	4	80	199	199	201	203	201	199	202	200	207	209	0
T	4	85	202	200	199	197	191	186	187	187	187	187	0
T	4	90	200	197	194	190	185	179	181	183	184	185	0
T	4	95	199	193	190	189	191	191	193	197	199	200	0
T	4	100	209	201	195	196	201	210	221	232	239	241	0
T	4	105	239	229	220	216	218	237	263	285	298	303	0
T	4	110	293	278	264	256	262	284	317	344	360	366	0
T	5	25	221	221	223	223	224	225	225	223	238	243	0
T	5	30	234	233	235	233	231	232	232	231	248	254	0
T	5	35	250	250	248	245	246	248	246	238	254	259	0
T	5	40	262	262	260	259	262	264	261	255	264	267	0
T	5	45	270	271	271	271	273	277	275	270	270	270	0
T	5	50	274	274	275	275	276	278	278	278	279	279	0
T	5	55	269	267	265	265	267	268	270	271	273	274	0
T	5	60	252	252	251	252	251	253	254	257	262	264	0
T	5	65	227	231	236	237	237	237	238	241	242	242	0
T	5	70	206	211	218	220	220	221	224	229	223	221	0
T	5	75	199	200	203	204	204	205	209	211	207	206	0
T	5	80	202	199	197	194	190	186	188	188	196	199	0
T	5	85	203	198	196	189	179	170	168	168	168	168	0
T	5	90	193	194	192	185	172	161	159	162	164	164	0
T	5	95	187	187	187	187	184	180	180	184	186	187	0
T	5	100	193	191	194	197	204	212	223	234	241	243	0
T	5	105	219	215	216	220	230	253	279	302	316	320	0
T	5	110	269	259	255	259	274	304	343	373	391	397	0
T	6	25	220	220	223	225	225	225	228	229	239	242	0
T	6	30	234	234	234	234	233	234	238	239	246	248	0
T	6	35	249	249	246	246	247	250	251	249	258	261	0

T	6	40	259	260	259	259	262	266	266	264	269	271	0
T	6	45	268	269	270	272	275	277	279	278	281	282	0
T	6	50	272	273	275	275	276	279	282	283	286	287	0
T	6	55	269	268	267	267	269	273	275	278	280	281	0
T	6	60	255	256	253	252	252	256	259	264	267	268	0
T	6	65	232	234	233	232	232	236	240	245	247	248	0
T	6	70	208	211	213	213	212	214	220	225	220	218	0
T	6	75	199	199	201	198	195	195	199	201	204	205	0
T	6	80	201	196	194	190	181	175	173	173	185	189	0
T	6	85	199	195	192	184	170	156	151	149	148	147	0
T	6	90	189	189	188	179	162	147	144	145	146	146	0
T	6	95	184	186	189	189	182	173	171	173	174	175	0
T	6	100	191	193	198	206	213	219	222	226	228	229	0
T	6	105	215	214	221	232	247	265	282	295	303	305	0
T	6	110	261	253	253	264	285	313	343	366	380	384	0
T	7	25	218	220	222	224	224	227	230	231	239	242	0
T	7	30	231	233	233	232	235	238	239	238	248	251	0
T	7	35	247	245	244	244	246	250	252	251	259	262	0
T	7	40	258	256	256	257	259	264	267	266	269	270	0
T	7	45	265	265	268	268	271	274	278	279	283	284	0
T	7	50	271	271	273	272	274	276	281	285	293	296	0
T	7	55	270	269	267	266	267	270	276	281	283	284	0
T	7	60	257	257	253	250	251	256	262	267	267	267	0
T	7	65	234	234	230	226	229	234	241	246	244	243	0
T	7	70	211	211	209	207	207	211	217	222	214	211	0
T	7	75	200	200	200	197	191	189	191	194	196	197	0
T	7	80	197	196	195	189	178	168	165	164	182	188	0
T	7	85	193	194	191	183	167	153	144	140	138	137	0
T	7	90	185	186	186	179	167	153	145	141	139	138	0
T	7	95	187	189	193	195	192	184	174	168	164	163	0
T	7	100	204	204	206	214	222	221	216	212	210	209	0
T	7	105	231	229	229	237	246	255	258	260	261	262	0
T	7	110	273	265	260	265	276	293	306	314	319	320	0
T	8	25	218	219	221	223	225	229	229	227	239	243	0
T	8	30	231	233	230	232	234	238	237	234	247	251	0
T	8	35	246	244	243	242	246	249	249	245	259	264	0
T	8	40	258	255	253	254	259	261	262	260	270	273	0
T	8	45	268	265	267	267	269	271	274	274	285	289	0
T	8	50	273	272	271	271	271	274	277	279	289	292	0
T	8	55	270	268	266	264	263	266	272	275	276	276	0
T	8	60	253	257	254	250	248	250	257	263	260	259	0
T	8	65	233	236	235	230	225	229	237	245	240	238	0
T	8	70	213	218	217	212	208	210	215	221	212	209	0
T	8	75	201	205	207	203	196	191	190	194	197	198	0
T	8	80	195	199	201	196	183	172	165	167	192	200	0
T	8	85	193	196	196	188	174	161	151	148	146	146	0
T	8	90	193	194	191	187	180	170	159	150	145	143	0
T	8	95	200	199	197	197	199	194	181	170	163	161	0
T	8	100	219	216	211	208	212	211	203	193	187	185	0
T	8	105	251	247	236	226	225	224	220	213	209	207	0
T	8	110	296	291	276	263	256	254	250	241	236	234	0
T	9	25	219	220	222	224	225	225	226	224	229	231	0
T	9	30	231	232	233	231	233	234	233	229	237	240	0
T	9	35	245	244	243	241	242	245	244	239	248	251	0
T	9	40	260	258	256	254	256	257	256	252	260	263	0
T	9	45	271	269	268	265	267	268	268	266	272	274	0
T	9	50	275	273	272	270	270	271	271	272	278	280	0

T	9	55	268	269	265	262	259	260	264	267	263	262	0
T	9	60	250	254	257	250	241	242	250	256	245	241	0
T	9	65	229	238	242	234	224	223	232	240	229	225	0
T	9	70	213	221	225	218	209	207	214	220	204	199	0
T	9	75	202	208	211	206	198	194	195	201	191	188	0
T	9	80	197	200	202	198	190	182	180	184	211	220	0
T	9	85	197	199	198	192	185	177	172	173	174	174	0
T	9	90	198	199	197	193	191	185	177	173	171	170	0
T	9	95	204	207	206	205	203	196	188	179	174	172	0
T	9	100	220	225	222	216	211	204	195	184	177	175	0
T	9	105	255	257	248	236	226	216	202	187	178	175	0
T	9	110	306	307	294	278	261	244	223	198	183	178	0
T	10	25	220	221	223	223	221	220	220	221	213	210	0
T	10	30	233	233	232	230	228	224	225	225	216	213	0
T	10	35	248	246	243	241	238	235	234	232	225	223	0
T	10	40	262	260	257	252	251	249	245	244	237	235	0
T	10	45	273	271	269	265	263	261	259	257	253	252	0
T	10	50	275	274	273	271	269	265	265	265	261	260	0
T	10	55	267	267	266	262	258	255	256	258	250	247	0
T	10	60	248	251	254	247	241	240	246	246	231	226	0
T	10	65	227	233	240	236	224	222	231	233	214	208	0
T	10	70	209	216	223	219	210	210	218	219	198	191	0
T	10	75	200	206	210	207	203	202	207	209	200	197	0
T	10	80	199	202	202	200	197	196	198	203	223	230	0
T	10	85	202	203	200	195	194	193	194	197	199	199	0
T	10	90	200	200	198	195	197	198	197	196	195	195	0
T	10	95	199	200	206	205	202	201	199	195	190	192	0
T	10	100	209	217	222	221	217	209	210	193	183	179	0
T	10	105	239	247	250	249	241	228	209	192	182	178	0
T	10	110	293	301	299	290	276	256	227	199	182	177	0
T	11	25	221	221	222	220	219	210	216	215	201	196	0
T	11	30	234	234	232	220	220	220	210	220	207	200	0
T	11	35	250	247	243	238	233	226	224	225	215	212	0
T	11	40	262	260	257	253	246	209	205	205	224	220	0
T	11	45	270	270	269	266	261	252	248	251	209	205	0
T	11	50	274	274	273	271	266	258	250	260	250	250	0
T	11	55	269	269	269	264	259	255	255	256	255	255	0
T	11	60	252	252	253	249	244	240	245	244	206	200	0
T	11	65	227	229	234	233	229	230	235	231	226	224	0
T	11	70	206	209	215	216	216	220	225	220	210	207	0
T	11	75	199	202	205	206	206	212	218	215	196	190	0
T	11	80	202	203	201	199	201	207	211	214	222	225	0
T	11	85	203	203	199	196	199	203	209	213	215	216	0
T	11	90	193	192	191	194	200	207	211	212	213	210	0
T	11	95	187	191	196	202	208	214	215	212	210	210	0
T	11	100	193	200	210	219	222	220	215	209	205	204	0
T	11	105	219	227	239	245	241	231	217	206	199	197	0
T	11	110	269	282	286	284	272	253	231	212	201	197	0
T	12	25	220	221	222	219	217	221	216	210	206	205	0
T	12	30	234	234	229	229	224	221	216	211	208	207	0
T	12	35	249	248	243	240	234	225	219	218	215	214	0
T	12	40	259	259	257	255	248	236	228	227	220	218	0
T	12	45	268	267	270	268	263	248	242	243	234	231	0
T	12	50	272	272	273	271	266	257	254	258	255	254	0
T	12	55	269	268	267	265	261	255	253	256	258	259	0
T	12	60	255	255	254	252	248	247	247	245	247	248	0
T	12	65	232	230	233	236	235	238	240	233	238	240	0

T	12	70	208	208	211	216	222	228	201	224	206	200	0
T	12	75	199	200	202	204	212	218	222	217	198	192	0
T	12	80	201	201	198	198	204	211	214	214	219	221	0
T	12	85	199	200	198	197	201	207	213	214	215	215	0
T	12	90	189	188	189	194	203	213	217	217	217	217	0
T	12	95	184	184	187	196	207	219	222	219	217	217	0
T	12	100	191	193	197	204	212	220	221	217	215	214	0
T	12	105	215	220	225	225	222	219	215	211	209	208	0
T	12	110	261	270	271	263	250	238	227	216	209	207	0
T	13	25	219	220	221	222	221	222	222	220	218	217	0
T	13	30	232	233	232	231	229	228	227	225	224	224	0
T	13	35	247	247	244	241	240	238	236	233	234	234	0
T	13	40	260	259	257	255	254	252	248	244	244	244	0
T	13	45	269	269	269	268	267	264	261	258	257	257	0
T	13	50	273	273	273	272	270	268	267	267	270	271	0
T	13	55	269	268	266	264	262	262	262	263	263	263	0
T	13	60	252	252	251	249	247	248	251	251	247	246	0
T	13	65	230	231	233	233	231	233	237	236	230	228	0
T	13	70	210	212	215	216	216	219	223	222	207	203	0
T	13	75	200	202	205	205	205	206	209	208	198	194	0
T	13	80	198	199	199	197	195	194	194	194	206	210	0
T	13	85	198	197	196	192	188	185	184	184	184	184	0
T	13	90	193	192	191	189	187	185	184	183	183	183	0
T	13	95	193	193	194	196	197	197	195	194	193	193	0
T	13	100	206	206	207	209	211	213	214	213	212	212	0
T	13	105	235	234	232	230	230	233	236	238	239	239	0
T	13	110	283	280	273	268	265	268	271	271	271	271	0

STATIONARY PERTURBATIONS, CODE S

S	1	30	10	-2	-11	-34	-43	0	3	-3	-13	-3	0	-2	-6	-16	-41	0
S	1	30	40	-2	-11	-43	-75	0	3	-8	-13	-23	0	-2	-1	-34	-51	0
S	1	30	70	-10	-11	-79	-75	0	-30	-14	-37	-43	0	19	3	-43	-36	0
S	1	30	100	-2	-20	-16	-32	0	-2	-14	15	-10	0	2	-10	-34	-17	0
S	1	30	130	-2	14	47	77	0	3	25	50	56	0	-2	-10	-7	21	0
S	1	30	160	-2	14	93	153	0	9	14	85	102	0	-11	-1	11	49	0
S	1	30	190	23	31	93	131	0	20	19	50	63	0	-2	12	43	63	0
S	1	30	220	6	14	47	66	0	9	14	-13	10	0	-6	3	61	59	0
S	1	30	250	-10	-3	-7	-21	0	-13	-14	-48	-36	0	-2	8	38	25	0
S	1	30	280	6	6	-34	-64	0	-2	3	-37	-56	0	6	-1	2	-8	0
S	1	30	310	-2	-11	-34	-64	0	-8	-14	-19	-36	0	6	3	-7	-27	0
S	1	30	340	-2	-11	-34	-53	0	9	-8	-19	-23	0	-6	-1	-16	-36	0
S	1	40	10	-17	2	-2	48	0	-16	-14	-8	69	0	1	16	5	-23	0
S	1	40	40	1	17	-2	33	0	2	-1	-3	31	0	1	20	0	-2	0
S	1	40	70	12	31	-21	-324	0	13	20	-38	-351	0	-3	12	17	41	0
S	1	40	100	15	-12	-75	-24	0	21	-19	-115	-51	0	-7	4	46	28	0
S	1	40	130	5	-45	-52	10	0	2	-48	-43	-32	0	5	4	-12	41	0
S	1	40	160	8	-5	37	62	0	5	-4	50	47	0	1	-4	-12	11	0
S	1	40	190	12	6	80	90	0	8	20	106	105	0	1	-15	-25	-10	0
S	1	40	220	15	2	37	62	0	16	20	56	69	0	-3	-19	-20	-10	0
S	1	40	250	8	-12	18	29	0	10	2	29	31	0	-3	-12	-12	-6	0
S	1	40	280	-17	13	-9	-10	0	-16	30	-3	6	0	1	-15	-4	-19	0
S	1	40	310	-17	6	-6	-5	0	-22	9	-6	22	0	5	-4	0	-27	0
S	1	40	340	-24	-2	-6	29	0	-24	-14	-24	54	0	1	12	17	-23	0
S	1	52	10	11	40	62	17	0	7	37	70	41	0	5	2	-8	-22	0
S	1	52	40	21	73	68	7	0	15	65	73	6	0	5	9	-5	2	0
S	1	52	70	31	72	64	4	0	26	63	51	-18	0	5	9	11	22	0
S	1	52	100	6	16	3	7	0	9	25	-5	-11	0	-3	-10	7	18	0

S	1	52	130	-10	-21	3	32	0	3	-8	8	9	0	-14	-13	-5	22	0
S	1	52	160	-14	-3	40	42	0	-14	-15	29	32	0	1	13	11	10	0
S	1	52	190	-5	-14	-10	32	0	1	-18	-14	11	0	-6	5	3	22	0
S	1	52	220	-7	-52	-38	17	0	-1	-47	-47	2	0	-6	-6	11	14	0
S	1	52	250	-14	-45	-36	-39	0	-11	-39	-44	-34	0	-3	-6	7	-6	0
S	1	52	280	-19	-40	-40	-51	0	-23	-39	-35	-30	0	5	-2	-5	-22	0
S	1	52	310	-7	-29	-49	-54	0	-11	-28	-32	-23	0	5	-2	-16	-30	0
S	1	52	340	5	2	-67	-16	0	-1	3	-54	15	0	5	2	-12	-30	0
S	1	60	10	17	43	53	-5	0	12	40	59	7	0	4	4	-2	-13	0
S	1	60	40	26	82	65	10	0	22	76	68	7	0	4	4	-2	0	0
S	1	60	70	36	77	77	25	0	32	76	68	13	0	4	4	6	8	0
S	1	60	100	3	8	11	25	0	6	12	5	13	0	0	-4	2	8	0
S	1	60	130	-21	-31	-1	48	0	-15	-23	0	44	0	-8	-8	-2	8	0
S	1	60	160	-16	8	47	48	0	-11	2	42	49	0	0	4	6	4	0
S	1	60	190	-11	-11	-7	48	0	-8	-12	-8	44	0	-4	0	2	8	0
S	1	60	220	-11	-56	-31	33	0	-8	-54	-33	23	0	-4	-4	2	8	0
S	1	60	250	-16	-51	-31	-43	0	-15	-47	-33	-45	0	0	-4	6	0	0
S	1	60	280	-16	-41	-43	-66	0	-18	-40	-42	-60	0	0	0	-2	-5	0
S	1	60	310	-2	-31	-61	-81	0	-4	-30	-54	-65	0	4	0	-10	-13	0
S	1	60	340	12	3	-79	-43	0	6	2	-71	-29	0	4	0	-6	-13	0
S	1	68	10	18	45	51	-13	0	13	47	53	-13	0	-1	1	-5	-3	0
S	1	68	40	29	83	60	6	0	32	87	65	3	0	-1	-3	-5	-3	0
S	1	68	70	39	83	79	29	0	42	87	78	33	0	-1	-3	-5	-3	0
S	1	68	100	2	4	12	25	0	4	7	16	33	0	-1	-3	-1	-3	0
S	1	68	130	-26	-36	-4	55	0	-24	-32	4	63	0	-1	1	-1	-7	0
S	1	68	160	-14	11	51	48	0	-15	7	53	48	0	-1	1	-1	-7	0
S	1	68	190	-14	-10	-4	51	0	-15	-12	-8	63	0	-1	1	-1	-7	0
S	1	68	220	-14	-57	-28	32	0	-15	-62	-33	33	0	-1	1	3	-3	0
S	1	68	250	-17	-52	-25	-39	0	-16	-52	-33	-43	0	-1	1	3	6	0
S	1	68	280	-14	-40	-45	-67	0	-15	-42	-45	-73	0	3	1	3	11	0
S	1	68	310	-2	-30	-67	-81	0	-6	-32	-69	-89	0	3	1	3	11	0
S	1	68	340	12	1	-78	-46	0	13	-2	-82	-58	0	3	1	8	6	0
S	1	76	10	18	40	39	-9	0	18	48	51	-17	0	-6	-7	-6	5	0
S	1	76	40	28	71	51	6	0	32	89	59	7	0	-6	-17	-11	1	0
S	1	76	70	37	71	69	21	0	41	89	82	32	0	-6	-17	-15	-8	0
S	1	76	100	-1	4	9	21	0	4	2	13	27	0	-1	-2	-2	-3	0
S	1	76	130	-24	-32	-3	43	0	-31	-39	-6	57	0	4	7	3	-12	0
S	1	76	160	-15	9	45	36	0	-14	14	55	47	0	4	-2	-11	-8	0
S	1	76	190	-15	-6	-3	43	0	-17	-11	-2	52	0	4	2	-2	-12	0
S	1	76	220	-15	-52	-21	29	0	-17	-60	-25	32	0	4	12	3	-8	0
S	1	76	250	-15	-47	-21	-31	0	-17	-57	-25	-37	0	4	12	3	5	0
S	1	76	280	-10	-32	-39	-53	0	-14	-42	-48	-66	0	4	7	8	14	0
S	1	76	310	-1	-27	-57	-68	0	-2	-32	-71	-81	0	-1	7	12	14	0
S	1	76	340	13	-1	-69	-39	0	15	-1	-82	-52	0	-1	-2	17	10	0
S	1	84	10	14	28	32	-3	0	17	42	38	-11	0	0	-9	-4	5	0
S	1	84	40	21	52	39	7	0	23	64	51	4	0	-5	-15	-9	0	0
S	1	84	70	28	54	51	16	0	33	64	63	19	0	-5	-15	-9	-4	0
S	1	84	100	1	1	9	16	0	3	3	9	19	0	0	1	0	-4	0
S	1	84	130	-21	-25	-1	31	0	-24	-30	-4	40	0	6	6	0	-4	0
S	1	84	160	-10	9	34	29	0	-11	10	40	34	0	0	-4	-9	-4	0
S	1	84	190	-12	-5	-1	31	0	-12	-7	-3	37	0	0	1	0	-4	0
S	1	84	220	-12	-36	-18	19	0	-12	-47	-22	24	0	0	11	5	-4	0
S	1	84	250	-12	-34	-16	-23	0	-14	-43	-19	-27	0	0	11	0	5	0
S	1	84	280	-8	-25	-31	-43	0	-10	-32	-37	-48	0	0	6	5	5	0
S	1	84	310	-1	-19	-43	-53	0	0	-24	-53	-59	0	0	6	10	5	0
S	1	84	340	10	-1	-54	-28	0	13	-1	-63	-33	0	0	1	10	5	0
S	1	90	10	11	24	29	-4	0	12	26	29	-3	0	0	-5	0	2	0

S	1	90	40	16	40	34	9	0	20	47	35	5	0	0	-5	0	2	0
S	1	90	70	21	40	45	16	0	26	47	45	16	0	-5	-5	0	2	0
S	1	90	100	1	3	6	16	0	0	2	6	12	0	0	0	0	2	0
S	1	90	130	-19	-19	1	28	0	-19	-22	0	28	0	0	0	0	2	0
S	1	90	160	-9	8	29	28	0	-8	8	29	28	0	0	0	0	2	0
S	1	90	190	-9	-3	1	28	0	-11	-4	0	28	0	0	0	0	2	0
S	1	90	220	-9	-29	-16	16	0	-11	-34	-16	16	0	0	5	0	2	0
S	1	90	250	-9	-29	-16	-23	0	-11	-31	-13	-23	0	0	5	0	-3	0
S	1	90	280	-9	-19	-27	-42	0	-8	-22	-26	-39	0	0	5	0	-3	0
S	1	90	310	1	-13	-38	-49	0	0	-16	-39	-47	0	0	0	0	-3	0
S	1	90	340	11	-3	-49	-23	0	9	-1	-49	-23	0	0	0	0	-3	0
S	2	30	10	7	-1	-36	-126	0	-3	-5	-16	-64	0	7	1	-19	-67	0
S	2	30	40	7	-1	-45	-126	0	-3	1	-27	-64	0	7	1	-23	-58	0
S	2	30	70	-10	-9	-36	-75	0	-9	-10	-16	-51	0	-2	1	-23	-17	0
S	2	30	100	-10	-9	0	18	0	-9	1	13	14	0	3	-8	-10	10	0
S	2	30	130	-1	-1	45	131	0	-3	6	47	105	0	3	-3	-1	28	0
S	2	30	160	-10	8	71	183	0	-9	6	59	138	0	-2	1	12	42	0
S	2	30	190	-10	8	63	162	0	2	6	47	92	0	-6	1	17	60	0
S	2	30	220	-1	8	45	111	0	2	6	19	53	0	-6	1	26	55	0
S	2	30	250	-1	-1	9	28	0	2	1	-27	1	0	-2	-3	39	28	0
S	2	30	280	32	8	-27	-64	0	30	1	-39	-64	0	-2	6	12	1	0
S	2	30	310	-1	-1	-45	-116	0	2	1	-39	-83	0	-2	-3	-10	-31	0
S	2	30	340	-1	-9	-45	-126	0	-3	-16	-22	-77	0	3	6	-19	-49	0
S	2	40	10	-16	1	-23	-173	0	-20	-16	-48	-145	0	5	19	24	-33	0
S	2	40	40	-2	11	-58	-164	0	-9	-6	-87	-138	0	5	19	28	-29	0
S	2	40	70	23	22	-86	-140	0	23	2	-104	-122	0	1	19	20	-20	0
S	2	40	100	16	11	-78	-77	0	12	5	-62	-60	0	5	8	-16	-16	0
S	2	40	130	12	-10	-19	38	0	7	13	17	48	0	5	-24	-37	-4	0
S	2	40	160	16	-3	53	158	0	12	13	84	149	0	1	-16	-28	13	0
S	2	40	190	-2	-7	81	225	0	-4	2	101	198	0	1	-12	-20	26	0
S	2	40	220	-16	-10	97	225	0	-14	2	103	191	0	1	-12	-4	35	0
S	2	40	250	-16	-7	77	149	0	-14	-3	67	106	0	1	-4	8	43	0
S	2	40	280	1	-7	9	28	0	7	5	5	-1	0	-7	-12	4	30	0
S	2	40	310	1	-7	-42	-101	0	12	-6	-45	-89	0	-11	0	0	-8	0
S	2	40	340	-16	4	-11	-169	0	-12	-11	-31	-135	0	-3	15	20	-37	0
S	2	52	10	66	91	25	-138	0	66	82	9	-149	0	2	9	14	12	0
S	2	52	40	58	109	32	-136	0	51	94	25	-145	0	9	13	7	12	0
S	2	52	70	40	103	19	-115	0	34	94	16	-123	0	6	9	3	8	0
S	2	52	100	33	74	-15	-41	0	30	70	-14	-52	0	2	5	-1	8	0
S	2	52	130	24	4	-15	66	0	17	4	-22	56	0	6	2	7	8	0
S	2	52	160	14	9	59	179	0	8	10	62	187	0	6	-2	-1	-8	0
S	2	52	190	-13	-10	51	192	0	-17	-7	59	215	0	6	-2	-9	-20	0
S	2	52	220	-44	-68	25	181	0	-39	-62	39	204	0	-6	-6	-13	-20	0
S	2	52	250	-82	-101	-8	82	0	-72	-91	5	94	0	-9	-10	-13	-12	0
S	2	52	280	-82	-141	-97	-34	0	-72	-133	-91	-33	0	-9	-10	-5	-4	0
S	2	52	310	-37	-84	-53	-99	0	-33	-78	-54	-102	0	-6	-6	3	4	0
S	2	52	340	22	16	-25	-136	0	28	17	-34	-151	0	-6	-2	10	15	0
S	2	60	10	66	101	37	-129	0	67	92	31	-136	0	1	5	10	8	0
S	2	60	40	66	121	37	-129	0	60	113	35	-131	0	5	9	1	4	0
S	2	60	70	43	111	24	-106	0	41	106	18	-115	0	5	5	1	4	0
S	2	60	100	39	76	-13	-29	0	34	74	-17	-40	0	5	1	1	8	0
S	2	60	130	30	2	-7	71	0	24	3	-12	72	0	5	1	5	4	0
S	2	60	160	16	7	55	171	0	15	7	57	179	0	5	1	-3	-9	0
S	2	60	190	-7	-13	43	171	0	-12	-11	48	184	0	1	-3	-3	-13	0
S	2	60	220	-48	-73	12	156	0	-45	-68	22	173	0	-3	-3	-7	-13	0
S	2	60	250	-89	-112	-19	71	0	-84	-103	-12	77	0	-7	-7	-7	-9	0
S	2	60	280	-89	-147	-99	-29	0	-84	-142	-99	-35	0	-7	-3	-3	4	0

S	2	60	310	-43	-88	-50	-98	0	-38	-85	-51	-99	0	-3	-3	1	4	0
S	2	60	340	16	17	-19	-121	0	21	14	-21	-131	0	-3	1	1	8	0
S	2	68	10	65	101	44	-115	0	66	102	50	-130	0	-5	-3	0	20	0
S	2	68	40	67	127	39	-115	0	66	132	37	-130	0	-1	-3	-4	20	0
S	2	68	70	48	113	23	-96	0	48	122	25	-114	0	-1	-3	0	16	0
S	2	68	100	38	75	-15	-24	0	39	82	-13	-36	0	-1	-3	0	3	0
S	2	68	130	32	3	-5	73	0	30	2	-13	88	0	-1	-3	0	-10	0
S	2	68	160	20	8	52	154	0	21	12	63	181	0	-1	-3	-8	-23	0
S	2	68	190	-8	-15	39	147	0	-7	-18	37	166	0	4	-3	-4	-28	0
S	2	68	220	-49	-75	8	137	0	-52	-78	12	166	0	-1	1	-4	-23	0
S	2	68	250	-93	-113	-22	61	0	-95	-117	-25	71	0	4	6	0	-10	0
S	2	68	280	-93	-148	-98	-27	0	-95	-155	-108	-35	0	4	10	9	3	0
S	2	68	310	-42	-90	-49	-89	0	-43	-98	-51	-98	0	-1	6	5	16	0
S	2	68	340	14	15	-15	-108	0	21	12	-13	-130	0	-1	-3	5	16	0
S	2	76	10	59	86	38	-92	0	70	108	47	-112	0	-9	-20	-8	18	0
S	2	76	40	59	112	32	-92	0	70	136	39	-112	0	-9	-25	-8	18	0
S	2	76	70	45	102	20	-77	0	51	121	23	-92	0	-9	-20	-3	14	0
S	2	76	100	35	65	-11	-16	0	42	80	-16	-22	0	-4	-15	2	5	0
S	2	76	130	31	3	-5	59	0	34	2	-4	72	0	-4	-1	2	-12	0
S	2	76	160	17	8	45	120	0	23	8	51	152	0	-4	-1	-8	-25	0
S	2	76	190	-6	-13	32	120	0	-8	-17	39	142	0	0	4	-8	-21	0
S	2	76	220	-43	-65	7	112	0	-52	-80	4	132	0	10	13	2	-21	0
S	2	76	250	-85	-101	-18	52	0	-99	-121	-24	57	0	15	23	6	-8	0
S	2	76	280	-85	-132	-86	-24	0	-99	-155	-99	-27	0	15	28	15	5	0
S	2	76	310	-39	-80	-42	-69	0	-46	-95	-48	-87	0	5	18	6	14	0
S	2	76	340	12	13	-11	-92	0	15	14	-12	-102	0	-4	-6	2	14	0
S	2	84	10	43	65	30	-83	0	56	83	40	-83	0	-12	-21	-9	5	0
S	2	84	40	46	82	26	-83	0	56	105	27	-83	0	-12	-21	-4	5	0
S	2	84	70	34	72	17	-65	0	46	94	14	-67	0	-7	-21	-4	5	0
S	2	84	100	26	47	-9	-10	0	36	61	-12	-21	0	-7	-15	1	5	0
S	2	84	130	23	3	-3	51	0	26	5	1	55	0	-7	0	1	-5	0
S	2	84	160	16	5	34	99	0	16	5	40	116	0	-2	0	-4	-9	0
S	2	84	190	-4	-9	26	96	0	-3	-17	27	101	0	4	5	-4	-9	0
S	2	84	220	-33	-49	6	91	0	-43	-62	5	99	0	9	15	1	-9	0
S	2	84	250	-64	-72	-15	48	0	-80	-94	-18	47	0	14	21	6	0	0
S	2	84	280	-64	-96	-69	-12	0	-80	-122	-78	-18	0	14	26	10	5	0
S	2	84	310	-30	-59	-33	-58	0	-37	-74	-38	-64	0	9	15	6	5	0
S	2	84	340	8	11	-9	-75	0	7	16	-12	-83	0	-2	-5	1	5	0
S	2	90	10	36	48	29	-82	0	39	59	27	-75	0	-7	-10	0	-10	0
S	2	90	40	36	64	23	-82	0	42	74	24	-75	0	-7	-10	0	-10	0
S	2	90	70	26	53	18	-69	0	31	65	14	-60	0	-2	-10	0	-5	0
S	2	90	100	21	37	-5	-9	0	25	43	-9	-8	0	-2	-5	0	0	0
S	2	90	130	21	4	-5	50	0	22	1	-2	48	0	-2	0	0	5	0
S	2	90	160	11	4	29	96	0	14	4	30	87	0	-2	0	0	5	0
S	2	90	190	-5	-7	23	96	0	-3	-8	24	87	0	-2	0	0	10	0
S	2	90	220	-25	-34	6	90	0	-31	-42	4	83	0	3	6	0	10	0
S	2	90	250	-50	-56	-11	50	0	-59	-66	-12	44	0	9	11	0	10	0
S	2	90	280	-50	-78	-68	-9	0	-59	-88	-62	-12	0	9	11	-5	0	0
S	2	90	310	-25	-45	-28	-56	0	-28	-51	-29	-52	0	3	6	0	-5	0
S	2	90	340	6	10	-11	-75	0	8	10	-9	-67	0	-2	0	0	-10	0
S	3	30	10	-6	-8	-4	-39	0	0	-9	-2	-9	0	-1	0	-9	-26	0
S	3	30	40	-6	0	-21	-59	0	0	2	-8	-34	0	-1	-4	-13	-26	0
S	3	30	70	3	0	-21	-49	0	0	-4	-13	-47	0	-1	5	-4	-8	0
S	3	30	100	3	0	-12	-19	0	0	-4	-13	-28	0	-1	5	5	6	0
S	3	30	130	3	0	5	40	0	-5	-4	4	29	0	4	5	5	15	0
S	3	30	160	-6	0	23	60	0	-5	-4	21	48	0	4	5	0	19	0
S	3	30	190	3	8	23	60	0	-5	2	26	42	0	4	0	0	19	0

S	3	30	220	3	0	23	31	0	0	7	-2	10	0	-1	-4	18	19	0
S	3	30	250	3	0	-4	1	0	6	2	-19	-3	0	-5	0	14	6	0
S	3	30	280	11	8	-4	-9	0	12	13	4	-15	0	-1	-4	-4	6	0
S	3	30	310	-6	0	-4	-9	0	-5	2	-2	4	0	-1	-4	-4	-12	0
S	3	30	340	-6	-8	-4	-9	0	0	-4	4	4	0	-1	-4	-9	-17	0
S	3	40	10	-8	14	3	-68	0	-15	8	12	-59	0	5	5	-12	-10	0
S	3	40	40	24	35	-9	-64	0	19	31	-13	-59	0	5	5	5	-6	0
S	3	40	70	24	42	-5	-27	0	16	39	-16	-24	0	9	1	9	-6	0
S	3	40	100	17	28	3	9	0	16	37	7	10	0	1	-11	-7	2	0
S	3	40	130	13	10	31	260	0	16	10	37	267	0	-3	1	-7	-6	0
S	3	40	160	13	21	74	123	0	19	37	79	120	0	-6	-15	-7	2	0
S	3	40	190	-1	25	94	114	0	1	37	102	117	0	-3	-11	-7	-6	0
S	3	40	220	-4	14	74	9	0	-5	26	136	4	0	-3	-11	-56	6	0
S	3	40	250	-1	-36	-65	-73	0	42	-31	-75	-81	0	-41	-3	13	10	0
S	3	40	280	-18	-68	-89	-105	0	-23	-73	-114	-125	0	5	5	25	19	0
S	3	40	310	-36	-57	-85	-105	0	-52	-73	-111	-106	0	17	17	29	2	0
S	3	40	340	-22	-29	-25	-73	0	-36	-47	-44	-65	0	13	17	17	-6	0
S	3	52	10	28	52	8	-66	0	25	47	11	-64	0	2	6	-2	-3	0
S	3	52	40	54	79	12	-24	0	54	70	11	-26	0	2	9	2	1	0
S	3	52	70	50	76	30	-7	0	46	66	20	-8	0	5	9	10	1	0
S	3	52	100	38	52	34	45	0	30	47	24	36	0	9	6	10	9	0
S	3	52	130	30	38	48	93	0	26	42	45	81	0	2	-6	2	13	0
S	3	52	160	28	31	94	126	0	29	39	102	125	0	-2	-9	-6	1	0
S	3	52	190	13	22	86	98	0	21	31	90	99	0	-9	-9	-6	1	0
S	3	52	220	-24	-36	12	5	0	-16	-24	23	24	0	-6	-13	-10	-19	0
S	3	52	250	-63	-70	-62	-43	0	-61	-69	-57	-36	0	-2	-2	-6	-7	0
S	3	52	280	-74	-108	-118	-74	0	-73	-109	-121	-71	0	-2	-2	2	-3	0
S	3	52	310	-65	-99	-96	-74	0	-66	-102	-100	-78	0	2	6	2	5	0
S	3	52	340	-14	-36	-46	-81	0	-16	-39	-48	-82	0	2	6	2	1	0
S	3	60	10	33	55	6	-66	0	27	52	9	-69	0	1	2	-1	-2	0
S	3	60	40	55	88	12	-24	0	53	80	13	-25	0	1	6	-1	2	0
S	3	60	70	55	83	41	-3	0	53	76	33	-6	0	1	6	7	2	0
S	3	60	100	46	55	41	52	0	40	52	37	48	0	5	2	3	2	0
S	3	60	130	33	36	53	101	0	30	35	50	96	0	5	-2	3	2	0
S	3	60	160	28	26	87	129	0	27	28	91	125	0	1	-2	-5	-2	0
S	3	60	190	6	17	81	94	0	12	21	82	101	0	-3	-2	-1	-2	0
S	3	60	220	-33	-45	0	-10	0	-26	-38	9	-1	0	-7	-6	-5	-6	0
S	3	60	250	-64	-74	-69	-45	0	-64	-69	-65	-44	0	-3	-2	-1	-2	0
S	3	60	280	-77	-107	-115	-73	0	-74	-107	-118	-74	0	-3	2	3	-2	0
S	3	60	310	-64	-97	-92	-73	0	-64	-97	-97	-74	0	1	-2	3	2	0
S	3	60	340	-16	-36	-46	-80	0	-14	-34	-44	-78	0	1	-2	-1	2	0
S	3	68	10	33	56	3	-63	0	37	53	3	-68	0	-1	0	-2	9	0
S	3	68	40	53	91	12	-19	0	55	91	15	-26	0	-1	0	-2	0	0
S	3	68	70	56	88	41	-6	0	55	91	38	-12	0	-1	0	-2	0	0
S	3	68	100	46	56	44	53	0	46	53	50	59	0	-1	0	-2	-4	0
S	3	68	130	36	33	50	99	0	37	34	50	115	0	-1	-4	-2	-13	0
S	3	68	160	29	22	78	119	0	29	25	86	129	0	-1	-4	-11	-13	0
S	3	68	190	1	11	78	88	0	2	15	86	101	0	-1	-4	-7	-13	0
S	3	68	220	-35	-49	-2	-15	0	-33	-51	3	-12	0	-1	0	-2	0	0
S	3	68	250	-66	-71	-66	-46	0	-68	-70	-68	-54	0	3	4	7	5	0
S	3	68	280	-77	-106	-109	-72	0	-77	-108	-127	-82	0	3	4	11	9	0
S	3	68	310	-63	-97	-86	-63	0	-68	-99	-91	-68	0	3	4	11	9	0
S	3	68	340	-12	-35	-43	-74	0	-15	-32	-44	-82	0	3	0	2	9	0
S	3	76	10	32	48	5	-49	0	37	60	2	-67	0	-7	-10	0	15	0
S	3	76	40	46	83	11	-13	0	56	98	14	-20	0	-7	-15	0	6	0
S	3	76	70	50	78	34	-6	0	58	95	43	-6	0	-7	-15	-9	2	0
S	3	76	100	41	48	40	44	0	50	60	47	55	0	-7	-10	-9	-11	0

S	3	76	130	32	29	40	80	0	39	36	51	102	0	-7	-5	-9	-25	0
S	3	76	160	27	19	64	95	0	31	22	80	125	0	-7	-5	-14	-29	0
S	3	76	190	0	9	64	66	0	-1	10	80	93	0	-2	-5	-14	-20	0
S	3	76	220	-32	-46	-1	-13	0	-39	-55	-5	-20	0	7	9	0	6	0
S	3	76	250	-59	-61	-54	-35	0	-71	-75	-68	-48	0	12	14	14	11	0
S	3	76	280	-68	-91	-96	-56	0	-82	-111	-112	-72	0	12	19	18	15	0
S	3	76	310	-55	-86	-72	-49	0	-66	-102	-86	-67	0	12	19	14	15	0
S	3	76	340	-14	-31	-36	-64	0	-14	-37	-46	-76	0	2	4	9	15	0
S	3	84	10	24	37	3	-37	0	26	47	8	-44	0	-8	-12	3	10	0
S	3	84	40	33	60	9	-10	0	45	79	8	-15	0	-8	-18	-2	5	0
S	3	84	70	36	58	28	0	0	45	79	32	0	0	-8	-18	-7	0	0
S	3	84	100	33	37	5	30	0	45	47	32	44	0	-8	-12	-7	-9	0
S	3	84	130	25	21	33	52	0	35	26	45	73	0	-8	-7	-7	-19	0
S	3	84	160	18	12	50	62	0	26	15	57	88	0	-8	-2	-12	-19	0
S	3	84	190	-2	6	50	49	0	-4	5	57	59	0	-3	-2	-12	-14	0
S	3	84	220	-26	-33	-1	-5	0	-32	-43	-2	-12	0	8	9	3	5	0
S	3	84	250	-42	-46	-44	-24	0	-56	-60	-52	-34	0	13	14	8	10	0
S	3	84	280	-50	-68	-73	-39	0	-64	-87	-87	-52	0	13	19	13	10	0
S	3	84	310	-41	-64	-58	-37	0	-53	-82	-68	-47	0	13	19	13	10	0
S	3	84	340	-8	-21	-27	-42	0	-14	-27	-30	-59	0	3	9	8	10	0
S	3	90	10	17	27	5	-30	0	22	34	4	-31	0	-2	-7	2	1	0
S	3	90	40	23	43	10	-4	0	31	55	7	-8	0	-7	-12	2	1	0
S	3	90	70	28	43	22	3	0	34	55	26	0	0	-7	-7	-3	1	0
S	3	90	100	23	27	27	22	0	31	34	26	27	0	-7	-7	-3	1	0
S	3	90	130	17	16	27	42	0	22	19	29	46	0	-2	-1	-3	-4	0
S	3	90	160	12	10	44	49	0	16	10	46	53	0	-2	-1	-3	-4	0
S	3	90	190	-3	5	44	42	0	-1	4	46	42	0	-2	-1	-3	-4	0
S	3	90	220	-19	-23	-1	-4	0	-24	-29	0	-4	0	3	4	2	1	0
S	3	90	250	-30	-34	-35	-17	0	-38	-41	-39	-23	0	8	9	2	1	0
S	3	90	280	-35	-51	-69	-37	0	-47	-62	-68	-34	0	8	9	2	1	0
S	3	90	310	-30	-45	-52	-30	0	-38	-56	-52	-31	0	8	9	2	1	0
S	3	90	340	-3	-17	-24	-37	0	-7	-20	-26	-38	0	3	4	2	1	0
S	4	30	10	-4	-8	-2	-4	0	-2	0	-1	15	0	-4	-9	-3	-17	0
S	4	30	40	-4	-8	-2	-4	0	-7	-5	-1	10	0	0	-5	-7	-13	0
S	4	30	70	4	1	-2	4	0	4	-5	5	4	0	0	8	-7	-4	0
S	4	30	100	4	1	-2	22	0	-7	-11	10	21	0	9	12	-12	-4	0
S	4	30	130	-4	-8	6	40	0	-7	-11	10	44	0	0	8	-12	-4	0
S	4	30	160	-12	1	15	40	0	-18	0	21	38	0	5	-1	-7	5	0
S	4	30	190	4	9	24	40	0	-2	0	32	21	0	9	4	-7	18	0
S	4	30	220	4	1	15	4	0	9	11	-6	-19	0	-4	-5	24	27	0
S	4	30	250	4	1	-2	-31	0	9	5	-23	-42	0	-4	-1	24	14	0
S	4	30	280	12	9	-19	-48	0	15	5	-34	-48	0	-4	-1	15	5	0
S	4	30	310	-4	1	-19	-40	0	4	5	-17	-42	0	-4	-5	2	-4	0
S	4	30	340	-4	1	-11	-22	0	4	5	5	-2	0	-4	-5	-12	-22	0
S	4	40	10	-1	-6	0	-35	0	-9	-17	-5	-27	0	7	11	5	-7	0
S	4	40	40	-5	5	-4	-39	0	-9	3	0	-36	0	3	3	-3	-7	0
S	4	40	70	12	18	-11	-35	0	17	23	-3	-30	0	-4	-5	-7	-7	0
S	4	40	100	15	18	-15	-15	0	22	28	0	-1	0	-4	-9	-15	-11	0
S	4	40	130	9	8	-4	18	0	12	16	5	20	0	-4	-9	-11	-3	0
S	4	40	160	9	8	11	38	0	6	16	16	34	0	0	-9	-3	1	0
S	4	40	190	-15	5	37	62	0	-14	16	40	54	0	0	-13	-3	9	0
S	4	40	220	-11	5	55	58	0	-6	11	59	46	0	-4	-5	-3	13	0
S	4	40	250	-11	-6	18	58	0	-11	-12	16	49	0	0	3	1	9	0
S	4	40	280	-11	-33	-26	-31	0	-14	-41	-40	-38	0	0	11	13	9	0
S	4	40	310	2	-19	-37	-39	0	-1	-29	-54	-38	0	3	11	16	1	0
S	4	40	340	9	-2	-23	-39	0	6	-14	-35	-33	0	3	11	13	-7	0
S	4	52	10	7	20	-1	-18	0	8	24	-8	-25	0	0	-5	6	9	0

S	4	52	40	10	28	3	-30	0	7	28	-4	-35	0	4	-1	6	5	0
S	4	52	70	19	19	-3	-32	0	15	16	-8	-43	0	4	2	6	9	0
S	4	52	100	15	11	-13	-28	0	11	4	-19	-35	0	4	6	6	5	0
S	4	52	130	3	-6	-23	-3	0	-4	-13	-28	-7	0	8	6	6	5	0
S	4	52	160	-1	6	6	29	0	-2	7	11	29	0	4	-1	-5	1	0
S	4	52	190	-5	6	30	52	0	-7	7	37	57	0	0	-1	-5	-6	0
S	4	52	220	-2	5	29	52	0	0	10	40	61	0	-3	-5	-12	-10	0
S	4	52	250	-5	-19	6	18	0	-2	-20	11	27	0	-3	2	-5	-10	0
S	4	52	280	-26	-33	-11	-18	0	-23	-38	-11	-14	0	-3	6	-1	-2	0
S	4	52	310	-13	-28	-13	-15	0	-7	-26	-11	-13	0	-7	-1	-1	1	0
S	4	52	340	-2	-8	-10	-7	0	3	1	-9	-1	0	-7	-9	-1	-6	0
S	4	60	10	5	19	4	-16	0	8	19	0	-17	0	-3	-3	4	1	0
S	4	60	40	13	27	9	-27	0	11	28	4	-28	0	1	1	4	1	0
S	4	60	70	22	23	4	-21	0	20	19	0	-28	0	1	1	4	5	0
S	4	60	100	17	19	-6	-21	0	14	12	-10	-24	0	1	5	4	5	0
S	4	60	130	9	-3	-21	0	0	5	-4	-21	-1	0	5	5	0	1	0
S	4	60	160	0	6	4	28	0	-1	6	4	30	0	1	1	-4	1	0
S	4	60	190	-4	6	23	49	0	-4	6	28	49	0	1	1	-4	1	0
S	4	60	220	-4	1	18	44	0	-4	3	25	49	0	1	-3	-4	-3	0
S	4	60	250	-8	-20	4	11	0	-7	-16	4	14	0	-3	1	-4	-3	0
S	4	60	280	-29	-29	-11	-21	0	-28	-32	-10	-21	0	-3	1	0	-3	0
S	4	60	310	-17	-33	-16	-16	0	-13	-29	-14	-13	0	-3	-3	-4	-3	0
S	4	60	340	-4	-16	-11	-10	0	-4	-10	-10	-9	0	-3	-7	0	-3	0
S	4	68	10	3	16	9	-13	0	8	16	9	-21	0	-3	-3	4	1	0
S	4	68	40	13	30	11	-24	0	16	25	9	-32	0	1	2	4	1	0
S	4	68	70	23	23	5	-18	0	25	25	-1	-21	0	1	2	-1	5	0
S	4	68	100	19	21	-6	-18	0	16	16	-11	-21	0	1	2	4	5	0
S	4	68	130	11	3	-18	1	0	8	-1	-21	1	0	1	2	4	1	0
S	4	68	160	0	4	0	29	0	-1	8	-1	34	0	1	-3	-1	-4	0
S	4	68	190	-2	4	20	49	0	-1	8	29	55	0	1	-3	-5	-4	0
S	4	68	220	-4	-2	15	41	0	-1	-1	19	44	0	1	-3	-5	-4	0
S	4	68	250	-8	-18	0	8	0	-9	-18	-1	12	0	-3	2	-1	-4	0
S	4	68	280	-29	-27	-10	-24	0	-35	-26	-11	-21	0	1	2	-1	1	0
S	4	68	310	-19	-32	-17	-18	0	-18	-35	-11	-21	0	-3	2	-1	1	0
S	4	68	340	-7	-21	-9	-13	0	-9	-18	-11	-10	0	-3	-3	-1	1	0
S	4	76	10	5	14	10	-9	0	3	16	11	-13	0	1	-1	0	5	0
S	4	76	40	9	28	10	-16	0	13	32	15	-24	0	-4	-6	0	5	0
S	4	76	70	23	19	5	-9	0	26	24	5	-17	0	-4	-1	0	5	0
S	4	76	100	18	19	-5	-16	0	21	24	-4	-17	0	-4	-1	0	5	0
S	4	76	130	9	5	-16	3	0	13	3	-20	2	0	-4	-1	4	0	0
S	4	76	160	0	5	0	22	0	0	6	-1	33	0	1	-1	0	-9	0
S	4	76	190	0	5	16	34	0	0	6	21	52	0	1	-1	-5	-14	0
S	4	76	220	-5	-4	10	34	0	-5	-5	15	44	0	1	-1	-5	-14	0
S	4	76	250	-9	-17	0	3	0	-11	-20	-1	6	0	1	4	0	-4	0
S	4	76	280	-28	-22	-10	-22	0	-32	-28	-14	-28	0	6	4	4	10	0
S	4	76	310	-18	-31	-16	-16	0	-21	-33	-17	-21	0	6	4	4	5	0
S	4	76	340	-5	-22	-5	-9	0	-8	-23	-10	-17	0	1	4	0	5	0
S	4	84	10	2	8	6	-4	0	2	16	11	-2	0	-2	-2	-3	6	0
S	4	84	40	8	19	8	-9	0	11	26	11	-15	0	-2	-8	-3	6	0
S	4	84	70	15	16	4	-6	0	21	16	0	-15	0	-7	-2	2	6	0
S	4	84	100	13	16	-2	-6	0	21	16	0	-15	0	-2	-2	2	6	0
S	4	84	130	9	5	-10	1	0	11	6	-11	-2	0	-2	-2	2	1	0
S	4	84	160	0	3	0	10	0	2	6	0	24	0	-2	-2	2	-9	0
S	4	84	190	0	3	10	17	0	2	6	11	37	0	-2	-2	-3	-15	0
S	4	84	220	-4	-4	6	15	0	-8	-3	11	24	0	-2	-2	-3	-15	0
S	4	84	250	-6	-12	0	3	0	-8	-13	0	11	0	4	3	2	-4	0
S	4	84	280	-19	-15	-6	-9	0	-28	-23	-11	-15	0	9	9	2	6	0

S	4	84	310	-13	-21	-10	-6	0	-18	-32	-11	-15	0	4	9	2	6	0
S	4	84	340	-6	-17	-6	-4	0	-8	-23	-11	-15	0	4	3	2	6	0
S	4	90	10	0	7	8	2	0	0	9	6	-4	0	0	-5	-2	0	0
S	4	90	40	6	13	8	-5	0	6	18	9	-7	0	0	-5	-2	5	0
S	4	90	70	11	13	3	2	0	12	15	3	-4	0	-5	-5	-2	5	0
S	4	90	100	11	13	-3	2	0	12	15	-1	-4	0	-5	0	-2	5	0
S	4	90	130	6	2	-8	2	0	9	4	-10	0	0	0	0	3	0	0
S	4	90	160	0	2	-3	2	0	0	1	-1	7	0	0	0	-2	-6	0
S	4	90	190	0	2	8	2	0	0	1	9	15	0	0	0	-2	-11	0
S	4	90	220	0	-4	3	2	0	-2	-2	6	11	0	0	0	-2	-11	0
S	4	90	250	-6	-9	-3	2	0	-5	-11	-1	0	0	0	0	-2	0	0
S	4	90	280	-11	-9	-3	-5	0	-17	-14	-7	-7	0	6	6	3	5	0
S	4	90	310	-11	-15	-8	-5	0	-11	-19	-10	-4	0	0	6	3	5	0
S	4	90	340	-6	-15	-3	2	0	-5	-16	-4	-4	0	0	0	3	5	0
S	5	30	10	1	-5	-7	-1	0	0	-10	-4	16	0	-5	3	0	-14	0
S	5	30	40	1	-5	1	-1	0	-5	-5	1	11	0	0	3	0	-14	0
S	5	30	70	9	3	-7	-1	0	11	-5	-9	0	0	0	3	0	-5	0
S	5	30	100	1	3	-16	-9	0	-5	1	-9	-10	0	4	3	0	-1	0
S	5	30	130	-8	3	-7	-9	0	-5	1	-9	-5	0	0	3	0	-5	0
S	5	30	160	1	-5	-7	-9	0	-5	-15	-15	-10	0	8	7	4	4	0
S	5	30	190	9	-5	1	-1	0	0	-5	1	-10	0	8	3	0	8	0
S	5	30	220	-8	-5	9	7	0	-5	1	17	0	0	0	-6	-9	8	0
S	5	30	250	1	11	9	7	0	0	17	-4	-10	0	4	-10	13	16	0
S	5	30	280	9	11	17	7	0	6	17	12	0	0	0	-1	0	8	0
S	5	30	310	-8	3	9	7	0	0	6	12	6	0	-5	-6	-4	4	0
S	5	30	340	-8	-5	1	7	0	6	-5	7	11	0	-13	-1	-4	-9	0
S	5	40	10	13	3	-9	-7	0	11	1	-13	-13	0	2	1	4	7	0
S	5	40	40	-7	6	-12	-10	0	-11	8	-16	-13	0	2	-3	4	4	0
S	5	40	70	-7	-17	-2	-7	0	-8	-21	-3	-1	0	2	5	0	-4	0
S	5	40	100	0	-20	4	-3	0	-6	-26	-3	1	0	6	9	7	-4	0
S	5	40	130	-7	6	-6	-3	0	-8	1	-11	-4	0	2	5	4	0	0
S	5	40	160	-10	6	-9	-16	0	-13	8	-8	-13	0	2	-3	0	-4	0
S	5	40	190	-10	0	-22	-7	0	-11	5	-18	-1	0	-2	-3	-4	-4	0
S	5	40	220	-4	0	-12	6	0	-1	5	-8	8	0	-2	-3	-4	0	0
S	5	40	250	-7	3	34	22	0	-3	3	41	23	0	-2	1	-8	-4	0
S	5	40	280	10	6	24	16	0	13	8	29	15	0	-6	-3	-4	0	0
S	5	40	310	19	3	11	6	0	25	3	12	1	0	-6	1	0	4	0
S	5	40	340	10	3	1	3	0	11	5	-1	-1	0	-2	-3	4	7	0
S	5	52	10	0	-19	-1	8	0	2	-17	-2	6	0	-1	-2	2	3	0
S	5	52	40	2	-15	0	1	0	-2	-12	0	1	0	3	-2	2	-1	0
S	5	52	70	6	1	6	0	0	10	2	1	-2	0	-4	-2	5	-1	0
S	5	52	100	6	1	15	5	0	6	-5	9	4	0	-1	6	5	3	0
S	5	52	130	2	2	11	10	0	-5	0	6	9	0	7	2	5	3	0
S	5	52	160	2	10	-7	-14	0	3	11	-8	-10	0	-1	-2	-2	-4	0
S	5	52	190	-4	-1	-22	-11	0	-3	-4	-17	-7	0	-1	2	-5	-4	0
S	5	52	220	-4	-7	-18	-5	0	-3	-5	-15	-2	0	-1	-2	-5	-4	0
S	5	52	250	-4	-4	-4	-3	0	-3	-2	3	-3	0	-1	-2	-9	-1	0
S	5	52	280	-3	1	6	-3	0	-2	2	13	-3	0	-1	-2	-5	-1	0
S	5	52	310	-3	-3	11	-3	0	-2	0	9	-9	0	-1	-2	2	3	0
S	5	52	340	-1	35	5	15	0	-1	31	1	15	0	-1	6	5	3	0
S	5	60	10	0	-22	0	11	0	-1	-19	-2	9	0	-1	-1	0	0	0
S	5	60	40	4	-18	0	3	0	3	-16	1	0	0	3	-1	0	0	0
S	5	60	70	4	-1	12	-1	0	6	-1	7	0	0	-1	-1	4	0	0
S	5	60	100	8	7	20	7	0	6	3	16	6	0	-1	3	4	0	0
S	5	60	130	8	3	16	11	0	3	3	13	12	0	3	-1	4	0	0
S	5	60	160	0	7	-9	-16	0	3	9	-8	-15	0	-1	-1	0	0	0
S	5	60	190	-5	3	-29	-12	0	-4	-1	-23	-12	0	-1	3	-4	0	0

S	5	60	220	-5	-9	-21	-9	0	-4	-7	-20	-6	0	-1	-1	-4	0	0
S	5	60	250	-5	-5	-9	-5	0	-4	-4	-8	-3	0	-1	-1	-4	0	0
S	5	60	280	-5	-1	0	-5	0	-4	-1	4	-3	0	-1	-1	-4	0	0
S	5	60	310	-5	-5	12	-1	0	-4	-4	10	-3	0	-1	-1	0	4	0
S	5	60	340	0	40	8	15	0	-1	36	7	15	0	-1	3	0	0	0
S	5	68	10	-2	-22	-2	10	0	-4	-18	-4	8	0	-1	0	-1	0	0
S	5	68	40	7	-18	0	2	0	4	-18	4	0	0	3	0	-1	0	0
S	5	68	70	2	-1	13	2	0	4	-2	12	0	0	-1	0	3	0	0
S	5	68	100	7	9	23	6	0	4	6	20	8	0	-1	0	3	0	0
S	5	68	130	11	6	17	10	0	13	6	12	8	0	3	0	3	0	0
S	5	68	160	1	7	-7	-18	0	4	6	-4	-16	0	-1	0	3	0	0
S	5	68	190	-6	4	-29	-14	0	-4	6	-29	-16	0	-1	0	-1	0	0
S	5	68	220	-6	-9	-21	-8	0	-4	-10	-20	-8	0	-1	0	-1	0	0
S	5	68	250	-6	-8	-13	-5	0	-4	-10	-12	0	0	-1	0	-1	0	0
S	5	68	280	-4	-1	-3	-5	0	-4	-2	-4	0	0	-1	0	-1	0	0
S	5	68	310	-4	-5	12	4	0	-4	-2	12	0	0	-1	0	-1	0	0
S	5	68	340	-2	39	8	16	0	-4	39	12	16	0	3	0	-1	0	0
S	5	76	10	-4	-22	-3	7	0	-2	-24	-2	12	0	0	3	2	-1	0
S	5	76	40	5	-18	2	2	0	9	-19	0	2	0	0	3	2	-1	0
S	5	76	70	1	0	15	2	0	3	-1	15	2	0	0	3	-3	-1	0
S	5	76	100	5	9	24	7	0	9	9	25	7	0	0	-3	-3	-1	0
S	5	76	130	14	5	15	7	0	14	6	18	12	0	0	-3	-3	-1	0
S	5	76	160	1	5	-7	-16	0	1	9	-7	-20	0	0	-3	2	4	0
S	5	76	190	-4	5	-29	-16	0	-7	4	-32	-15	0	0	-3	7	4	0
S	5	76	220	-4	-9	-20	-7	0	-7	-9	-22	-10	0	0	3	2	-1	0
S	5	76	250	-4	-9	-11	-2	0	-7	-9	-16	-6	0	0	3	2	-1	0
S	5	76	280	-4	0	-3	-2	0	-5	-1	-5	-6	0	0	3	2	-1	0
S	5	76	310	-4	-4	11	7	0	-5	-6	13	7	0	0	3	-3	-1	0
S	5	76	340	-4	37	6	11	0	-2	42	10	17	0	0	-8	-3	-1	0
S	5	84	10	-1	-14	-2	6	0	-6	-24	-5	13	0	-1	6	-2	-5	0
S	5	84	40	7	-12	0	2	0	4	-14	-5	3	0	-1	6	-2	2	0
S	5	84	70	1	0	10	2	0	4	-4	14	3	0	-1	0	-2	2	0
S	5	84	100	5	8	18	4	0	4	6	23	3	0	-1	0	-2	-5	0
S	5	84	130	10	6	14	4	0	14	6	14	13	0	-1	0	-2	-5	0
S	5	84	160	-1	4	-4	-12	0	4	6	-5	-16	0	-1	0	-2	2	0
S	5	84	190	-5	4	-22	-10	0	-6	6	-23	-16	0	4	0	5	2	0
S	5	84	220	-5	-6	-14	-5	0	-6	-4	-14	-6	0	4	0	5	2	0
S	5	84	250	-5	-6	-12	-3	0	-6	-4	-14	-6	0	4	0	5	2	0
S	5	84	280	-3	0	-4	-3	0	-6	-4	-5	-6	0	-1	0	-2	2	0
S	5	84	310	-3	-4	8	6	0	-6	-4	14	3	0	-1	0	-2	2	0
S	5	84	340	-1	24	6	9	0	4	35	5	13	0	-1	-12	-2	-5	0
S	5	90	10	-2	-9	-1	-1	0	-2	-12	-3	6	0	0	4	3	-5	0
S	5	90	40	4	-9	-1	-1	0	7	-12	0	3	0	0	4	3	-5	0
S	5	90	70	-2	-2	6	-1	0	1	0	10	3	0	0	-1	-3	2	0
S	5	90	100	4	4	12	-1	0	4	7	16	3	0	0	-1	-3	-5	0
S	5	90	130	9	4	12	-1	0	10	3	13	3	0	0	-1	-3	-5	0
S	5	90	160	-2	4	-1	-1	0	1	3	-3	-13	0	0	-1	3	9	0
S	5	90	190	-2	4	-14	-1	0	-5	3	-19	-9	0	0	-1	3	2	0
S	5	90	220	-2	-2	-8	-1	0	-5	-6	-12	-5	0	0	4	3	2	0
S	5	90	250	-2	-2	-8	-1	0	-5	-6	-9	-1	0	0	4	3	2	0
S	5	90	280	-2	-2	-8	-1	0	-2	0	-6	-1	0	0	-1	-3	2	0
S	5	90	310	-2	-2	6	8	0	-2	-3	7	6	0	0	-1	-3	2	0
S	5	90	340	-2	11	6	-1	0	-2	22	7	6	0	0	-7	-3	-5	0
S	6	30	10	3	-7	-5	-4	0	11	-17	-2	4	0	-9	9	0	-6	0
S	6	30	40	3	-7	-5	-11	0	0	-7	-7	-6	0	0	4	4	-6	0
S	6	30	70	3	1	-5	-11	0	0	-1	-12	-16	0	4	0	9	2	0
S	6	30	100	3	1	-5	-11	0	-5	-1	-7	-16	0	4	0	9	2	0

S	6	30	130	-5	1	-13	-11	0	-11	-7	-17	-11	0	4	4	9	2	0
S	6	30	160	3	1	-5	-4	0	-5	-1	-12	-11	0	4	4	9	6	0
S	6	30	190	3	1	-5	4	0	0	-1	-7	-1	0	4	4	4	6	0
S	6	30	220	-5	1	3	11	0	0	9	9	9	0	0	-9	-4	2	0
S	6	30	250	3	1	18	11	0	0	15	29	9	0	0	-9	-13	2	0
S	6	30	280	3	17	10	11	0	5	15	9	9	0	0	0	-4	2	0
S	6	30	310	-5	-7	10	11	0	5	4	14	14	0	-9	-9	-9	-2	0
S	6	30	340	-5	-7	3	4	0	0	-7	3	14	0	-4	0	-4	-11	0
S	6	40	10	-1	-2	0	6	0	-8	-4	0	9	0	6	1	0	-2	0
S	6	40	40	2	-2	3	6	0	0	1	7	7	0	2	-3	-3	-2	0
S	6	40	70	-5	-2	0	0	0	-5	-4	0	2	0	2	1	0	-2	0
S	6	40	100	-1	-2	-6	0	0	-8	-4	-5	0	0	6	1	0	-2	0
S	6	40	130	-1	-2	-6	-3	0	2	1	-7	-2	0	-2	-3	0	-2	0
S	6	40	160	-1	-2	-6	-3	0	4	1	-7	-2	0	-6	-3	0	-2	0
S	6	40	190	-5	-5	-6	-44	0	-3	-4	-7	-47	0	-2	1	0	2	0
S	6	40	220	-1	-2	-3	0	0	-3	-1	-3	-2	0	2	1	0	2	0
S	6	40	250	2	5	3	9	0	4	4	4	7	0	-2	1	0	2	0
S	6	40	280	2	5	6	14	0	4	4	7	13	0	-2	1	0	2	0
S	6	40	310	5	5	10	11	0	7	4	9	11	0	-2	1	0	2	0
S	6	40	340	5	2	3	6	0	4	1	4	4	0	-2	1	0	2	0
S	6	52	10	-4	-3	-6	-2	0	-11	-10	-6	-2	0	5	9	1	3	0
S	6	52	40	-4	-8	-4	-6	0	0	-10	-6	-12	0	1	9	1	6	0
S	6	52	70	-5	-13	-6	-3	0	-11	-10	-6	-2	0	1	9	1	-1	0
S	6	52	100	-11	-4	-6	-7	0	-11	-10	-6	-2	0	1	-59	1	-1	0
S	6	52	130	-13	-16	-9	-9	0	-11	-10	-6	-12	0	-3	1	-2	-1	0
S	6	52	160	-13	-14	-11	-13	0	-11	-10	-6	-12	0	-3	-3	-6	-1	0
S	6	52	190	-11	-14	-13	-13	0	-11	-10	-6	-12	0	-3	1	-6	-1	0
S	6	52	220	-5	2	-7	-7	0	0	1	-6	-2	0	-3	1	-2	-1	0
S	6	52	250	4	17	8	11	0	11	23	4	8	0	-3	1	1	-1	0
S	6	52	280	21	24	21	21	0	23	23	15	18	0	1	9	5	-1	0
S	6	52	310	22	22	21	18	0	23	23	15	18	0	1	12	5	-1	0
S	6	52	340	18	7	12	10	0	11	1	15	8	0	1	9	1	-1	0
S	6	60	10	3	3	-4	-4	0	-3	0	-5	-1	0	5	5	1	-1	0
S	6	60	40	-6	-9	-4	0	0	-3	-6	-5	-4	0	-3	-3	1	3	0
S	6	60	70	3	-17	-4	-4	0	-6	-11	-5	-4	0	5	-7	1	-1	0
S	6	60	100	-10	11	-4	-10	0	-12	-17	-5	-7	0	1	33	1	-4	0
S	6	60	130	-14	-21	-11	-7	0	-12	-14	-10	-9	0	1	-7	-3	3	0
S	6	60	160	-14	-17	-15	-14	0	-12	-14	-13	-14	0	1	-3	-3	-1	0
S	6	60	190	-10	-17	-19	-14	0	-12	-14	-13	-14	0	1	-7	-3	-1	0
S	6	60	220	-10	3	-8	-10	0	-6	3	-8	-7	0	-3	1	1	-4	0
S	6	60	250	-1	11	11	13	0	3	17	9	11	0	-7	-7	1	3	0
S	6	60	280	16	23	26	24	0	22	26	22	21	0	-3	-3	5	3	0
S	6	60	310	20	19	26	17	0	22	23	22	19	0	-3	-7	5	-1	0
S	6	60	340	24	11	7	10	0	19	9	11	9	0	5	1	-3	-1	0
S	6	68	10	13	5	-5	-3	0	5	7	-6	-1	0	5	2	1	1	0
S	6	68	40	-13	-7	-5	-3	0	-12	-9	-6	-1	0	-3	-3	1	1	0
S	6	68	70	13	-19	-5	-3	0	5	-17	-6	-1	0	5	-3	1	1	0
S	6	68	100	-13	42	-5	-14	0	-12	22	-6	-14	0	1	15	1	-4	0
S	6	68	130	-13	-32	-16	-3	0	-12	-25	-13	-8	0	1	-3	1	1	0
S	6	68	160	-13	-19	-16	-14	0	-12	-17	-13	-14	0	1	-3	-3	1	0
S	6	68	190	-13	-19	-27	-14	0	-12	-17	-21	-14	0	1	-3	-3	1	0
S	6	68	220	-13	5	-5	-14	0	-12	-1	-6	-14	0	-3	2	1	-4	0
S	6	68	250	-13	5	18	17	0	-4	7	9	12	0	-3	-3	1	1	0
S	6	68	280	13	17	29	27	0	14	22	30	26	0	-3	-3	1	1	0
S	6	68	310	27	15	29	17	0	23	15	30	19	0	-3	-3	1	1	0
S	6	68	340	27	17	7	7	0	31	15	9	12	0	1	2	-3	1	0
S	6	76	10	11	8	-6	-3	0	13	7	-6	-3	0	-2	-2	2	2	0

S	6	76	40	-12	-9	-2	5	0	-14	-12	-1	5	0	3	3	2	2	0
S	6	76	70	11	-23	-6	-7	0	10	-27	-6	-5	0	-2	3	2	2	0
S	6	76	100	-8	52	-6	-18	0	-11	55	-6	-19	0	3	-2	2	2	0
S	6	76	130	-12	-27	-10	-3	0	-14	-30	-12	-3	0	3	3	2	2	0
S	6	76	160	-12	-18	-18	-14	0	-14	-22	-19	-17	0	3	3	2	2	0
S	6	76	190	-8	-23	-22	-14	0	-9	-25	-24	-17	0	3	3	2	2	0
S	6	76	220	-12	4	-6	-18	0	-17	2	-8	-19	0	3	-2	2	2	0
S	6	76	250	-12	-1	14	16	0	-11	2	14	17	0	-2	-2	-3	-4	0
S	6	76	280	11	17	30	27	0	15	22	32	29	0	-2	-2	-3	-4	0
S	6	76	310	15	8	30	16	0	21	10	32	21	0	-6	-2	-3	-4	0
S	6	76	340	29	12	2	12	0	32	17	3	13	0	-6	-2	-3	-4	0
S	6	84	10	11	6	-4	-3	0	9	12	-9	-4	0	0	-1	1	-2	0
S	6	84	40	-11	-9	-1	6	0	-11	-7	-1	4	0	0	4	1	-2	0
S	6	84	70	9	-18	-4	-5	0	9	-26	-9	-4	0	0	4	1	-2	0
S	6	84	100	-7	53	-4	-16	0	-11	49	-9	-20	0	0	-1	1	-2	0
S	6	84	130	-9	-22	-10	1	0	-11	-26	-9	-4	0	6	4	1	5	0
S	6	84	160	-9	-14	-15	-13	0	-11	-16	-18	-12	0	6	4	1	5	0
S	6	84	190	-5	-18	-18	-13	0	-11	-26	-18	-12	0	0	4	7	5	0
S	6	84	220	-11	1	-4	-16	0	-11	2	-9	-20	0	0	-1	1	-2	0
S	6	84	250	-11	-3	12	14	0	-11	2	16	12	0	0	-1	1	-2	0
S	6	84	280	7	10	24	21	0	9	21	33	28	0	-5	-7	-6	-2	0
S	6	84	310	11	1	24	14	0	19	2	33	20	0	-5	-7	-6	-2	0
S	6	84	340	23	12	-1	10	0	28	12	-1	12	0	-5	-1	1	-2	0
S	6	90	10	8	5	-3	-2	0	9	6	-4	-5	0	0	-2	2	-4	0
S	6	90	40	-7	-6	2	12	0	-10	-6	-1	8	0	0	4	2	3	0
S	6	90	70	8	-18	-3	-2	0	9	-18	-4	-5	0	0	4	2	3	0
S	6	90	100	-7	56	-3	-16	0	-7	50	-4	-17	0	0	4	2	3	0
S	6	90	130	-7	-18	-9	5	0	-7	-20	-9	1	0	0	4	2	3	0
S	6	90	160	-7	-12	-9	-9	0	-7	-15	-12	-11	0	0	4	2	3	0
S	6	90	190	-2	-12	-15	-9	0	-4	-15	-18	-11	0	0	4	2	3	0
S	6	90	220	-7	0	-3	-16	0	-10	0	-4	-17	0	0	-2	2	3	0
S	6	90	250	-12	-6	8	12	0	-10	-3	11	14	0	0	-2	-4	-4	0
S	6	90	280	3	5	20	12	0	7	9	22	20	0	0	-7	-4	-4	0
S	6	90	310	8	-6	20	5	0	9	0	22	14	0	0	-7	-4	-4	0
S	6	90	340	18	11	-3	5	0	20	12	-1	11	0	0	-2	-4	-4	0
S	7	30	10	8	8	9	6	0	15	3	14	16	0	-4	5	-3	-8	0
S	7	30	40	8	-8	-6	-9	0	9	-13	-7	-4	0	0	5	1	-8	0
S	7	30	70	8	-8	-6	-16	0	4	-7	-17	-24	0	0	5	6	5	0
S	7	30	100	8	-8	-14	-16	0	4	-7	-12	-24	0	0	0	1	5	0
S	7	30	130	-1	0	-14	-16	0	-2	-7	-17	-24	0	4	5	6	5	0
S	7	30	160	8	-8	-6	21	0	9	-13	-17	16	0	0	5	6	5	0
S	7	30	190	8	-8	-6	-1	0	4	-18	-7	-4	0	4	5	1	5	0
S	7	30	220	-58	0	1	6	0	-62	8	-2	1	0	0	-13	1	5	0
S	7	30	250	8	0	9	6	0	9	8	14	11	0	-4	-4	-3	1	0
S	7	30	280	8	16	9	6	0	4	19	14	11	0	4	-4	-3	1	0
S	7	30	310	-1	0	9	6	0	4	8	9	11	0	0	-8	-3	-4	0
S	7	30	340	-1	16	17	6	0	4	19	29	16	0	-4	0	-11	-12	0
S	7	40	10	-1	-9	-4	2	0	-5	-10	-4	1	0	1	1	1	1	0
S	7	40	40	-1	-9	-1	0	0	-2	-10	-4	-1	0	1	1	1	1	0
S	7	40	70	-8	-12	-1	-3	0	-10	-13	-4	-3	0	1	1	1	1	0
S	7	40	100	-11	-12	-1	-3	0	-12	-17	-4	-3	0	1	5	1	1	0
S	7	40	130	-11	-9	-4	-3	0	-7	-8	-6	-3	0	-3	-3	1	1	0
S	7	40	160	-11	-9	-4	-6	0	-7	-6	-6	-7	0	-3	-3	1	1	0
S	7	40	190	-4	-6	-1	-6	0	0	-3	-4	-7	0	-3	-3	1	1	0
S	7	40	220	5	10	5	5	0	5	10	7	7	0	1	-3	-3	-7	0
S	7	40	250	9	16	5	11	0	10	17	10	22	0	1	1	-3	-10	0
S	7	40	280	15	19	5	2	0	14	19	10	-1	0	1	1	-3	5	0

S	7	40	310	15	16	2	0	0	14	15	1	-5	0	1	1	1	5	0
S	7	40	340	2	6	2	2	0	0	6	3	1	0	1	1	-3	1	0
S	7	52	10	-1	-6	-14	4	0	5	-8	-10	6	0	-5	3	0	-2	0
S	7	52	40	-4	-12	-12	1	0	5	-8	-10	6	0	-5	-1	0	-2	0
S	7	52	70	-14	-15	-12	-2	0	-5	-19	-10	-4	0	-5	-1	0	2	0
S	7	52	100	-21	-16	-12	-5	0	-27	-19	-10	-4	0	3	-1	0	2	0
S	7	52	130	-21	-19	-11	-2	0	-27	-19	-10	-4	0	3	-1	-4	2	0
S	7	52	160	-20	-15	-11	-4	0	-27	-8	-10	-4	0	3	-8	-4	-2	0
S	7	52	190	-13	-9	-7	-4	0	-16	3	-10	-4	0	3	-12	-4	-2	0
S	7	52	220	-8	7	14	3	0	-16	13	10	6	0	7	-1	4	-2	0
S	7	52	250	11	16	16	11	0	16	13	20	15	0	-1	3	0	-2	0
S	7	52	280	14	29	24	-24	0	5	24	20	-23	0	3	3	0	2	0
S	7	52	310	20	25	21	13	0	27	24	20	6	0	-5	7	4	2	0
S	7	52	340	57	14	5	9	0	60	3	0	6	0	-5	7	4	-2	0
S	7	60	10	-8	-6	-17	1	0	-3	-4	-14	3	0	-6	1	-4	0	0
S	7	60	40	-12	-14	-14	-2	0	-6	-13	-11	1	0	-10	-3	-4	-4	0
S	7	60	70	-21	-10	-14	-2	0	-15	-16	-11	-1	0	-6	5	-4	0	0
S	7	60	100	-16	-14	-14	-5	0	-21	-16	-11	-4	0	7	5	-4	0	0
S	7	60	130	-16	-18	-10	-2	0	-21	-19	-11	-1	0	7	1	0	0	0
S	7	60	160	-12	-22	-10	-2	0	-18	-16	-11	-4	0	7	-3	0	0	0
S	7	60	190	-8	-18	-3	-2	0	-12	-13	-9	-4	0	2	-7	4	0	0
S	7	60	220	1	-2	15	1	0	-6	7	15	1	0	7	-7	4	-4	0
S	7	60	250	5	18	11	8	0	12	18	15	11	0	-6	1	-4	-4	0
S	7	60	280	22	34	26	-25	0	15	29	23	-23	0	7	5	4	-4	0
S	7	60	310	14	26	22	21	0	18	27	23	13	0	-6	-3	0	8	0
S	7	60	340	52	22	8	11	0	57	15	4	8	0	-2	9	4	4	0
S	7	68	10	-14	-7	-14	1	0	-7	-5	-17	1	0	-4	0	-2	-1	0
S	7	68	40	-14	-20	-14	-9	0	-15	-13	-17	-6	0	-4	0	-2	-1	0
S	7	68	70	-28	-7	-14	1	0	-24	-5	-17	1	0	-4	4	-2	-1	0
S	7	68	100	-14	-7	-14	-9	0	-15	-13	-17	-6	0	4	4	-2	-1	0
S	7	68	130	-14	-20	-14	1	0	-15	-21	-9	1	0	4	0	2	-1	0
S	7	68	160	-1	-20	-14	1	0	-15	-21	-9	-6	0	4	0	2	-1	0
S	7	68	190	-1	-20	-3	1	0	-7	-21	-2	-6	0	4	-5	2	-1	0
S	7	68	220	-1	-7	19	1	0	2	-5	19	1	0	4	-5	2	-1	0
S	7	68	250	-1	18	8	1	0	2	19	12	7	0	-4	0	-2	-1	0
S	7	68	280	26	43	30	-28	0	28	35	26	-25	0	4	0	2	-1	0
S	7	68	310	12	18	19	30	0	11	27	19	26	0	-4	0	-2	4	0
S	7	68	340	52	30	8	11	0	54	27	12	13	0	-4	4	2	4	0
S	7	76	10	-11	-3	-21	2	0	-14	-4	-23	0	0	0	0	2	0	0
S	7	76	40	-20	-16	-17	-9	0	-25	-22	-19	-7	0	5	5	2	0	0
S	7	76	70	-29	-3	-17	2	0	-33	-4	-19	0	0	5	0	2	0	0
S	7	76	100	-7	-7	-17	-9	0	-8	-9	-19	-7	0	0	5	2	0	0
S	7	76	130	-7	-16	-9	2	0	-8	-19	-10	0	0	0	5	2	0	0
S	7	76	160	-2	-21	-9	-2	0	-3	-25	-10	-2	0	0	5	2	0	0
S	7	76	190	-2	-25	3	-2	0	-6	-30	3	-2	0	0	5	2	0	0
S	7	76	220	7	-12	18	-5	0	8	-9	20	-4	0	0	0	-3	0	0
S	7	76	250	-2	20	7	2	0	-3	22	7	2	0	0	-5	-3	0	0
S	7	76	280	29	33	30	-27	0	35	42	35	-28	0	-4	-5	-3	0	0
S	7	76	310	2	15	18	31	0	5	22	22	31	0	0	-5	-3	0	0
S	7	76	340	43	33	14	16	0	51	37	14	17	0	-9	-5	2	0	0
S	7	84	10	-10	-2	-17	-1	0	-10	-5	-22	1	0	3	1	3	-2	0
S	7	84	40	-17	-14	-13	-8	0	-19	-14	-13	-7	0	3	1	3	-2	0
S	7	84	70	-22	2	-13	1	0	-29	-5	-13	1	0	3	1	3	-2	0
S	7	84	100	-3	-2	-13	-7	0	-10	-5	-13	-7	0	3	1	3	-2	0
S	7	84	130	-3	-10	-6	1	0	-10	-14	-13	1	0	3	7	3	-2	0
S	7	84	160	1	-16	-6	-1	0	0	-24	-13	1	0	3	7	3	5	0
S	7	84	190	-1	-19	5	-1	0	0	-24	3	1	0	3	7	3	5	0

S	7	84	220	8	-10	14	-5	0	10	-5	20	-7	0	-2	1	-4	-2	0
S	7	84	250	-5	13	1	-3	0	0	14	3	1	0	-2	-5	-4	-2	0
S	7	84	280	24	23	25	-20	0	29	34	29	-30	0	-2	-10	-4	5	0
S	7	84	310	-1	9	14	29	0	0	14	20	31	0	-2	-5	-4	-2	0
S	7	84	340	29	25	10	14	0	39	34	12	16	0	-13	-5	-4	-2	0
S	7	90	10	-10	1	-10	-6	0	-10	0	-15	-3	0	0	-1	3	-1	0
S	7	90	40	-15	-10	-10	-13	0	-16	-12	-12	-9	0	0	5	3	-1	0
S	7	90	70	-20	7	-10	2	0	-21	3	-12	1	0	0	5	3	-1	0
S	7	90	100	0	1	-10	-6	0	-2	-3	-12	-6	0	0	5	3	-1	0
S	7	90	130	0	-4	-4	2	0	-2	-9	-6	1	0	0	5	3	-1	0
S	7	90	160	5	-10	-4	2	0	0	-15	-6	1	0	0	5	3	6	0
S	7	90	190	0	-16	9	2	0	-2	-18	5	1	0	0	5	3	6	0
S	7	90	220	10	-10	9	-6	0	9	-9	14	-6	0	0	-1	-4	-1	0
S	7	90	250	-5	7	-4	-6	0	-5	12	0	-3	0	0	-7	-4	-8	0
S	7	90	280	20	13	15	-13	0	22	21	23	-18	0	0	-7	-4	6	0
S	7	90	310	-5	1	9	25	0	0	9	11	29	0	0	-7	-4	-1	0
S	7	90	340	20	19	9	17	0	27	24	11	13	0	-5	-7	-4	-1	0
S	8	30	10	0	1	1	-3	0	5	-2	-3	14	0	-4	1	0	-15	0
S	8	30	40	0	1	-7	-11	0	0	-2	-3	-17	0	0	1	0	7	0
S	8	30	70	0	-7	-7	-11	0	5	-2	-8	-11	0	0	1	0	-2	0
S	8	30	100	0	1	-7	-11	0	0	3	-3	-6	0	0	-4	-4	-6	0
S	8	30	130	0	-7	-7	-11	0	-6	-7	-8	-6	0	5	5	0	-2	0
S	8	30	160	0	-7	-7	-3	0	0	-7	-8	-1	0	0	1	0	-2	0
S	8	30	190	0	1	1	4	0	0	-2	2	4	0	5	1	0	2	0
S	8	30	220	0	-7	8	12	0	-6	-7	7	9	0	0	1	0	2	0
S	8	30	250	-8	8	8	12	0	-6	8	7	-1	0	0	-4	4	11	0
S	8	30	280	16	16	8	12	0	16	13	7	4	0	0	1	0	7	0
S	8	30	310	-8	8	8	4	0	-6	13	12	9	0	-4	-4	-4	-2	0
S	8	30	340	0	-7	1	4	0	0	-7	-3	4	0	-4	1	4	-2	0
S	8	40	10	-1	-3	3	-1	0	-4	-1	3	-4	0	1	-1	-1	1	0
S	8	40	40	-11	-6	0	-4	0	-11	-5	3	-4	0	1	-1	-1	1	0
S	8	40	70	-11	-6	0	-1	0	-11	-5	-4	-2	0	1	-1	3	1	0
S	8	40	100	-4	-6	0	-1	0	-6	-8	3	3	0	1	3	-1	-3	0
S	8	40	130	-4	-3	0	1	0	-8	-3	1	3	0	1	-1	-1	-3	0
S	8	40	160	-4	-6	0	-1	0	-6	-5	5	1	0	1	-1	-5	-3	0
S	8	40	190	-4	-6	0	1	0	-6	-5	-1	3	0	1	-1	-1	-3	0
S	8	40	220	5	-3	0	-1	0	8	-1	-4	-2	0	-3	-1	3	1	0
S	8	40	250	9	9	6	4	0	13	6	10	3	0	-3	3	-1	1	0
S	8	40	280	9	15	-30	1	0	13	15	-30	-2	0	-3	-1	3	5	0
S	8	40	310	12	18	12	4	0	13	17	10	3	0	-3	-1	3	1	0
S	8	40	340	5	0	6	-1	0	4	-3	3	-2	0	1	3	3	1	0
S	8	52	10	-2	-3	-6	-5	0	3	-5	-2	-2	0	-2	-1	1	1	0
S	8	52	40	6	2	-7	-2	0	3	6	-12	-2	0	-2	-1	1	-3	0
S	8	52	70	-2	3	-2	-3	0	3	-5	-2	-2	0	-2	3	1	-3	0
S	8	52	100	-5	2	-6	-5	0	-8	-5	-12	-2	0	6	7	5	1	0
S	8	52	130	-6	3	-3	-3	0	-8	6	-2	-2	0	6	-1	-3	1	0
S	8	52	160	-2	-7	-5	-6	0	-8	-5	-2	-2	0	2	-1	-3	1	0
S	8	52	190	0	-10	-9	-3	0	3	-5	-2	-2	0	-2	-5	-3	1	0
S	8	52	220	1	-5	-2	-2	0	3	-5	-2	-2	0	-2	-5	-3	1	0
S	8	52	250	3	8	5	3	0	3	6	9	-2	0	2	-1	-3	1	0
S	8	52	280	3	12	17	9	0	3	17	19	7	0	-2	-1	1	1	0
S	8	52	310	1	0	16	9	0	3	-5	9	7	0	-2	3	5	1	0
S	8	52	340	1	-5	2	9	0	3	-5	-2	7	0	-2	3	1	1	0
S	8	60	10	-5	1	-9	-8	0	-1	-2	-5	-4	0	-4	1	-6	-2	0
S	8	60	40	8	-3	-2	-2	0	5	1	-7	-4	0	4	-3	6	2	0
S	8	60	70	-5	13	-2	-5	0	-1	4	-2	-4	0	-4	9	-2	-2	0
S	8	60	100	0	9	-2	-8	0	-4	4	-5	-4	0	0	5	6	-2	0

S	8	60	130	-5	1	-5	-5	0	-4	4	-5	-4	0	0	-3	-2	-2	0
S	8	60	160	4	-7	-5	-8	0	-1	-8	-5	-6	0	8	-3	-2	-5	0
S	8	60	190	-5	-16	-16	-5	0	-1	-11	-10	-4	0	-4	-3	-6	-2	0
S	8	60	220	0	-7	-2	-2	0	2	-8	-2	-1	0	0	1	2	-2	0
S	8	60	250	4	9	2	8	0	2	7	3	4	0	0	1	-2	6	0
S	8	60	280	4	5	13	12	0	2	13	17	9	0	0	-3	-2	2	0
S	8	60	310	0	5	21	12	0	2	1	17	9	0	0	5	6	2	0
S	8	60	340	0	-7	6	12	0	2	-5	3	9	0	0	-3	2	2	0
S	8	68	10	-10	6	-17	-6	0	-7	3	-15	-9	0	-1	1	-4	-3	0
S	8	68	40	17	-6	6	-6	0	10	-5	0	-3	0	3	-4	4	2	0
S	8	68	70	-10	19	-6	-6	0	-7	11	0	-3	0	-1	5	0	2	0
S	8	68	100	3	6	6	-6	0	1	11	0	-9	0	3	1	4	-3	0
S	8	68	130	-10	-6	-6	-6	0	-7	3	-7	-3	0	-1	-4	0	-3	0
S	8	68	160	3	-6	-6	-6	0	10	-14	-7	-9	0	3	1	0	-3	0
S	8	68	190	-10	-19	-17	-6	0	-7	-14	-15	-3	0	-1	1	-4	-3	0
S	8	68	220	3	-6	-6	-6	0	1	-5	0	-3	0	-1	1	0	2	0
S	8	68	250	3	6	-6	14	0	1	11	0	10	0	-1	1	0	2	0
S	8	68	280	3	6	17	14	0	1	3	15	10	0	-1	-4	-4	2	0
S	8	68	310	3	6	28	14	0	1	3	22	10	0	-1	1	4	2	0
S	8	68	340	3	-6	6	14	0	1	-5	7	10	0	-1	1	0	2	0
S	8	76	10	-10	2	-14	-10	0	-11	3	-17	-11	0	3	-2	1	0	0
S	8	76	40	13	-7	6	1	0	14	-10	4	1	0	-2	3	1	0	0
S	8	76	70	-10	20	-2	-3	0	-11	21	-3	-5	0	3	-2	1	0	0
S	8	76	100	0	11	6	-10	0	0	14	6	-11	0	-2	-2	1	0	0
S	8	76	130	-5	-2	-6	-7	0	-5	-5	-5	-7	0	3	-2	1	0	0
S	8	76	160	13	-11	-10	-14	0	14	-12	-10	-15	0	-2	3	1	0	0
S	8	76	190	-5	-16	-22	-7	0	-5	-20	-23	-7	0	3	3	1	0	0
S	8	76	220	0	-2	-2	-3	0	0	-5	-1	-3	0	-2	3	1	0	0
S	8	76	250	0	11	-2	16	0	0	11	-3	15	0	-2	-2	1	0	0
S	8	76	280	4	-2	10	12	0	3	1	13	13	0	-2	-2	-4	0	0
S	8	76	310	0	7	26	12	0	0	11	31	13	0	-2	-2	-4	0	0
S	8	76	340	0	-11	10	12	0	0	-10	10	13	0	-2	3	1	0	0
S	8	84	10	-8	4	-13	-10	0	-12	3	-17	-7	0	0	-2	1	0	0
S	8	84	40	11	-8	6	2	0	17	-6	1	1	0	0	-2	1	0	0
S	8	84	70	-8	15	-2	-2	0	-12	13	1	1	0	0	-2	1	0	0
S	8	84	100	1	9	7	-10	0	-2	13	9	-7	0	0	-2	1	0	0
S	8	84	130	-3	-4	-4	-4	0	-2	-6	-8	-7	0	0	-2	1	0	0
S	8	84	160	11	-8	-7	-14	0	17	-6	-8	-15	0	0	4	1	0	0
S	8	84	190	-5	-12	-19	-4	0	-2	-16	-25	-7	0	0	4	1	0	0
S	8	84	220	-1	-2	0	0	0	-2	-6	1	1	0	0	4	1	0	0
S	8	84	250	1	8	-4	15	0	-2	13	1	17	0	0	-2	1	0	0
S	8	84	280	4	-4	4	9	0	7	-6	9	9	0	0	-2	-5	0	0
S	8	84	310	-1	8	22	9	0	-2	13	27	9	0	0	-2	-5	0	0
S	8	84	340	-1	-6	9	9	0	-2	-6	9	9	0	0	4	1	0	0
S	8	90	10	-6	2	-10	-9	0	-8	2	-13	-8	0	0	1	2	2	0
S	8	90	40	9	-9	9	5	0	11	-7	6	2	0	0	1	2	2	0
S	8	90	70	-6	14	-4	-2	0	-8	14	-1	-2	0	0	1	2	2	0
S	8	90	100	-1	8	9	-9	0	0	8	9	-8	0	0	1	2	2	0
S	8	90	130	-1	-3	-4	-2	0	-3	-4	-4	-5	0	5	1	2	2	0
S	8	90	160	9	-3	-4	-9	0	11	-7	-7	-11	0	0	1	2	2	0
S	8	90	190	-6	-9	-16	-2	0	-5	-10	-19	-5	0	0	1	2	2	0
S	8	90	220	-1	2	3	-2	0	0	-1	-1	-2	0	0	1	2	2	0
S	8	90	250	-1	2	-4	13	0	0	5	-4	14	0	0	-5	-5	2	0
S	8	90	280	4	-9	-4	5	0	3	-4	3	8	0	0	-5	-5	-5	0
S	8	90	310	-1	8	15	5	0	0	8	21	8	0	0	1	-5	-5	0
S	8	90	340	-1	-3	9	5	0	0	-7	9	8	0	0	1	2	-5	0
S	9	30	10	5	-3	-7	6	0	7	-7	-8	13	0	-3	1	-3	-6	0

S	9	30	40	-3	-3	1	-11	0	-4	-7	2	-3	0	1	5	-3	-6	0
S	9	30	70	-3	-3	-7	-19	0	-9	-2	-3	-8	0	5	1	-3	-6	0
S	9	30	100	-3	-11	-7	-11	0	-4	-12	-8	-8	0	1	1	-3	-6	0
S	9	30	130	-3	-3	-7	-3	0	-4	-2	2	3	0	1	1	-11	-6	0
S	9	30	160	-3	-3	-7	-3	0	-4	-2	2	-3	0	1	-3	-7	-1	0
S	9	30	190	-3	5	1	6	0	-4	9	7	-8	0	1	-3	-3	12	0
S	9	30	220	-3	5	9	14	0	2	4	13	8	0	-3	-3	-3	3	0
S	9	30	250	-3	5	9	14	0	-9	9	-3	3	0	5	-3	15	7	0
S	9	30	280	14	13	9	6	0	18	19	-3	-3	0	-3	-3	11	12	0
S	9	30	310	-3	5	9	6	0	2	4	-3	-3	0	-3	1	11	3	0
S	9	30	340	5	-3	1	-3	0	7	-12	2	8	0	-3	5	-3	-6	0
S	9	40	10	-2	-6	3	9	0	-3	-10	0	13	0	0	6	3	-4	0
S	9	40	40	-6	1	9	12	0	-6	2	9	16	0	0	2	-1	-4	0
S	9	40	70	-2	7	12	12	0	-3	9	4	11	0	0	-2	7	0	0
S	9	40	100	-2	1	6	9	0	-3	2	-3	3	0	0	2	7	4	0
S	9	40	130	-6	-2	-7	2	0	-6	-1	-7	-4	0	0	-2	3	4	0
S	9	40	160	-6	-6	-7	-8	0	-3	-3	-7	-9	0	-4	-2	-1	4	0
S	9	40	190	-6	-6	-10	-14	0	-8	-1	-3	-11	0	0	-6	-9	0	0
S	9	40	220	-2	-6	-1	-14	0	-6	-3	9	-13	0	0	-2	-9	0	0
S	9	40	250	11	1	-1	-11	0	11	-5	2	-11	0	0	6	-1	0	0
S	9	40	280	14	10	-1	-4	0	16	9	2	-1	0	0	-2	-1	-4	0
S	9	40	310	7	7	-1	2	0	9	6	2	1	0	0	2	-1	0	0
S	9	40	340	1	-2	-4	6	0	2	-5	-7	6	0	0	2	3	0	0
S	9	52	10	4	7	1	5	0	2	2	1	0	0	2	4	-1	5	0
S	9	52	40	18	22	18	16	0	23	20	11	11	0	-5	0	7	5	0
S	9	52	70	12	15	30	17	0	13	18	31	12	0	-2	-3	-1	5	0
S	9	52	100	0	6	22	17	0	1	8	29	20	0	-2	-3	-4	-3	0
S	9	52	130	-7	0	12	5	0	-6	15	14	7	0	-2	-15	-4	-3	0
S	9	52	160	-9	-11	1	2	0	-7	-10	1	0	0	-2	0	-1	1	0
S	9	52	190	-3	-8	-2	-3	0	-6	-12	-10	-4	0	2	4	7	1	0
S	9	52	220	-6	-12	-12	-14	0	-8	-16	-19	-13	0	2	4	7	1	0
S	9	52	250	1	-5	-24	-21	0	7	-5	-22	-11	0	-5	0	-1	-10	0
S	9	52	280	-1	-5	-17	-15	0	0	-5	-12	-7	0	-2	0	-4	-7	0
S	9	52	310	-6	-3	-12	-7	0	-11	-8	-8	-9	0	6	4	-4	1	0
S	9	52	340	-3	-5	-17	-1	0	-9	-8	-17	-5	0	6	4	-1	5	0
S	9	60	10	8	12	1	9	0	5	7	2	5	0	3	3	0	3	0
S	9	60	40	12	24	21	22	0	17	22	20	17	0	-1	3	4	3	0
S	9	60	70	12	12	30	22	0	11	13	29	17	0	-1	-1	0	3	0
S	9	60	100	0	4	17	13	0	-1	4	20	17	0	-1	-1	-4	-1	0
S	9	60	130	-9	-13	9	5	0	-7	-4	11	5	0	-1	-9	0	-1	0
S	9	60	160	-13	-13	1	5	0	-10	-10	2	2	0	-1	-1	0	3	0
S	9	60	190	0	-4	5	-4	0	-4	-7	-1	-1	0	3	3	4	-1	0
S	9	60	220	-5	-9	-8	-13	0	-7	-10	-10	-14	0	-1	3	4	-1	0
S	9	60	250	-5	-4	-24	-30	0	-1	-4	-25	-23	0	-5	-1	0	-5	0
S	9	60	280	-5	-4	-20	-21	0	-1	-4	-19	-17	0	-1	-1	-4	-5	0
S	9	60	310	0	0	-16	-8	0	-4	-1	-13	-8	0	3	3	0	-1	0
S	9	60	340	4	-4	-16	0	0	-1	-4	-16	-1	0	3	3	0	3	0
S	9	68	10	7	14	2	12	0	7	10	1	14	0	0	3	-1	0	0
S	9	68	40	11	25	26	23	0	16	27	26	22	0	-4	-1	3	0	0
S	9	68	70	11	9	27	25	0	7	10	26	22	0	0	-1	-1	0	0
S	9	68	100	-2	3	12	13	0	-1	2	18	14	0	0	-1	-1	0	0
S	9	68	130	-10	-22	11	2	0	-10	-14	10	5	0	0	-6	-1	0	0
S	9	68	160	-12	-11	2	5	0	-10	-14	1	5	0	0	-1	-1	0	0
S	9	68	190	1	-2	9	-2	0	-1	-6	10	-4	0	0	3	3	0	0
S	9	68	220	-3	-8	-3	-14	0	-1	-6	-7	-12	0	0	3	3	0	0
S	9	68	250	-6	-5	-28	-35	0	-1	-6	-31	-38	0	0	-1	-1	0	0
S	9	68	280	-3	-5	-24	-26	0	-1	-6	-23	-29	0	0	-1	-1	0	0

S	9	68	310	1	4	-18	-6	0	-1	2	-15	-4	0	0	3	-1	0	0
S	9	68	340	5	-1	-16	4	0	-1	2	-15	5	0	0	3	3	0	0
S	9	76	10	8	14	2	11	0	8	15	2	14	0	-1	0	0	-3	0
S	9	76	40	8	23	25	21	0	11	26	28	28	0	-1	-5	-5	-3	0
S	9	76	70	8	5	25	21	0	11	10	28	28	0	-1	0	-5	-3	0
S	9	76	100	-2	0	6	11	0	-2	2	10	14	0	-1	0	-5	-3	0
S	9	76	130	-11	-23	11	0	0	-10	-26	13	2	0	4	5	0	-3	0
S	9	76	160	-11	-9	2	6	0	-13	-13	2	5	0	4	0	0	-3	0
S	9	76	190	3	0	11	0	0	0	-3	13	0	0	-1	0	0	2	0
S	9	76	220	-2	-5	-3	-15	0	-2	-5	-3	-17	0	-1	0	0	2	0
S	9	76	250	-6	-5	-26	-30	0	-8	-5	-29	-40	0	-1	0	5	7	0
S	9	76	280	-6	-5	-21	-25	0	-5	-5	-26	-31	0	-1	0	5	7	0
S	9	76	310	3	5	-16	-5	0	3	5	-19	-6	0	-1	0	5	2	0
S	9	76	340	8	0	-16	6	0	6	0	-19	5	0	-1	0	5	2	0
S	9	84	10	5	11	1	8	0	8	17	-2	14	0	-2	-2	-1	-7	0
S	9	84	40	5	15	18	13	0	8	17	28	14	0	-2	-8	-7	-7	0
S	9	84	70	7	2	14	13	0	8	7	18	25	0	-2	-2	-7	-7	0
S	9	84	100	-1	0	3	5	0	-2	-2	8	14	0	-2	-2	-7	-7	0
S	9	84	130	-7	-18	5	0	0	-11	-22	8	3	0	3	3	-1	0	0
S	9	84	160	-9	-6	1	3	0	-11	-12	-2	3	0	3	3	-1	0	0
S	9	84	190	1	0	10	0	0	-2	-2	8	3	0	-2	3	-1	0	0
S	9	84	220	-1	-2	1	-7	0	-2	-2	-2	-8	0	3	3	-1	7	0
S	9	84	250	-7	-4	-16	-20	0	-2	-2	-21	-30	0	3	3	6	13	0
S	9	84	280	-3	-4	-16	-15	0	-2	-2	-21	-30	0	3	3	6	7	0
S	9	84	310	3	4	-12	-2	0	-2	7	-11	-8	0	-2	-2	6	0	0
S	9	84	340	7	0	-10	3	0	8	-2	-11	3	0	-2	-2	6	0	0
S	9	90	10	3	5	2	3	0	6	10	0	5	0	1	-4	-1	-2	0
S	9	90	40	3	5	10	3	0	3	13	17	9	0	-5	-4	-7	-8	0
S	9	90	70	3	-2	2	3	0	6	4	14	13	0	-5	-4	-7	-8	0
S	9	90	100	-2	-2	-5	-6	0	0	0	0	5	0	1	1	-7	-8	0
S	9	90	130	-2	-15	2	-6	0	-6	-16	3	1	0	1	1	-1	-2	0
S	9	90	160	-8	-2	2	3	0	-9	-6	0	5	0	1	1	-1	-2	0
S	9	90	190	3	5	10	3	0	3	0	10	1	0	1	1	-1	-2	0
S	9	90	220	-2	-2	2	3	0	0	-3	0	-8	0	1	1	5	5	0
S	9	90	250	-2	-2	-5	-6	0	-6	-3	-14	-16	0	1	1	5	12	0
S	9	90	280	-2	-2	-12	-6	0	-3	-3	-14	-12	0	1	1	5	12	0
S	9	90	310	3	5	-5	3	0	3	4	-10	-3	0	1	1	5	5	0
S	9	90	340	3	5	-5	3	0	6	0	-7	1	0	1	1	5	-2	0
S	10	30	10	6	-11	-15	12	0	3	-15	-5	11	0	-1	9	-7	-5	0
S	10	30	40	-2	-3	-6	2	0	-3	-9	0	11	0	3	4	-7	-5	0
S	10	30	70	-2	-3	-6	-7	0	8	-4	0	5	0	-6	0	-7	-5	0
S	10	30	100	-2	-3	-6	2	0	-3	-4	0	5	0	3	0	-2	-5	0
S	10	30	130	-2	-3	2	49	0	-3	-4	5	52	0	-1	0	-2	-5	0
S	10	30	160	-2	5	11	-7	0	-3	1	11	-7	0	-1	0	2	0	0
S	10	30	190	-2	5	11	-7	0	-3	7	5	-19	0	3	4	7	14	0
S	10	30	220	-2	5	19	2	0	-8	7	11	-13	0	3	-4	7	14	0
S	10	30	250	-2	5	11	-16	0	-8	12	-5	-19	0	3	-4	16	5	0
S	10	30	280	6	14	-6	-16	0	14	12	-11	-19	0	-1	0	2	0	0
S	10	30	310	-2	-3	-6	-16	0	-3	7	-11	-13	0	-1	-4	2	-5	0
S	10	30	340	6	-11	-6	2	0	8	-9	0	5	0	-1	-4	-11	-5	0
S	10	40	10	-2	3	12	-9	0	-10	-5	0	-12	0	10	10	15	4	0
S	10	40	40	-9	0	19	3	0	-20	-5	12	-17	0	10	6	7	21	0
S	10	40	70	4	7	16	3	0	9	10	7	-6	0	-5	-2	7	8	0
S	10	40	100	-2	7	1	-1	0	0	5	-3	-1	0	-2	2	3	0	0
S	10	40	130	4	0	-9	3	0	9	-3	-3	10	0	-5	2	-5	-8	0
S	10	40	160	7	-3	-6	7	0	19	-8	0	2	0	-13	6	-5	4	0
S	10	40	190	4	0	1	15	0	5	2	7	30	0	-2	-2	-5	-12	0

S10	40	220	-12	0	1	11	0	-10	10	15	19	0	-2	-10	-13	-8	0
S10	40	250	4	-7	-13	3	0	5	-3	-3	16	0	-2	-6	-9	-12	0
S10	40	280	4	-7	-16	-13	0	5	0	-10	-6	0	-2	-6	-5	-8	0
S10	40	310	1	0	-9	-13	0	0	0	-13	-20	0	2	-2	3	4	0
S10	40	340	-2	0	1	-5	0	-10	-3	-10	-14	0	10	6	11	8	0
S10	52	10	2	22	36	35	0	-1	22	28	21	0	3	1	7	13	0
S10	52	40	8	24	54	45	0	5	20	40	32	0	3	5	15	13	0
S10	52	70	2	24	41	41	0	3	20	28	32	0	-1	5	11	10	0
S10	52	100	-3	10	24	33	0	-5	1	20	32	0	3	8	3	2	0
S10	52	130	1	13	10	21	0	-2	8	13	24	0	3	5	-4	-2	0
S10	52	160	5	19	10	19	0	5	18	14	30	0	-1	1	-4	-10	0
S10	52	190	5	13	3	2	0	11	17	12	14	0	-4	-3	-8	-13	0
S10	52	220	1	-8	-26	-10	0	3	-4	-11	2	0	-1	-3	-15	-13	0
S10	52	250	-3	-30	-50	-26	0	-2	-28	-44	-21	0	-1	-3	-8	-6	0
S10	52	280	-5	-38	-58	-46	0	-3	-36	-52	-44	0	-8	-3	-4	-2	0
S10	52	310	-6	-17	-36	-83	0	-5	-12	-37	-82	0	-1	-6	0	-2	0
S10	52	340	-8	-32	-6	-30	0	-10	-26	-11	-39	0	3	-6	7	10	0
S10	60	10	5	24	41	47	0	3	22	39	38	0	1	0	4	8	0
S10	60	40	10	29	66	58	0	9	25	57	50	0	1	4	8	8	0
S10	60	70	1	29	51	47	0	3	25	43	46	0	1	4	8	4	0
S10	60	100	-3	16	26	35	0	-3	13	25	34	0	1	4	4	0	0
S10	60	130	5	16	6	17	0	0	13	8	21	0	1	4	0	-4	0
S10	60	160	5	20	6	11	0	6	19	8	17	0	1	0	-4	-9	0
S10	60	190	1	7	-4	-7	0	3	13	1	-3	0	-3	-4	-4	-4	0
S10	60	220	1	-10	-39	-19	0	0	-9	-31	-16	0	-3	-4	-8	-4	0
S10	60	250	-3	-31	-54	-31	0	-3	-32	-52	-28	0	-3	0	-4	0	0
S10	60	280	-7	-40	-64	-49	0	-6	-38	-60	-49	0	1	0	-4	0	0
S10	60	310	-7	-23	-34	-84	0	-6	-19	-35	-82	0	1	-4	0	0	0
S10	60	340	-7	-36	-4	-25	0	-9	-32	-3	-28	0	1	-4	0	4	0
S10	68	10	7	23	46	50	0	6	24	43	53	0	0	-2	1	-4	0
S10	68	40	13	29	70	58	0	14	32	73	66	0	0	2	-3	-4	0
S10	68	70	3	29	59	50	0	6	32	63	53	0	0	2	1	-4	0
S10	68	100	-3	20	29	31	0	-3	15	33	29	0	0	2	1	-4	0
S10	68	130	4	18	5	13	0	6	15	3	17	0	0	2	-3	-4	0
S10	68	160	7	20	2	1	0	6	24	3	5	0	0	-2	-3	-4	0
S10	68	190	-3	6	-10	-10	0	-3	7	-8	-7	0	0	-2	-3	1	0
S10	68	220	-3	-13	-43	-20	0	-3	-10	-38	-19	0	0	-2	1	1	0
S10	68	250	-6	-31	-57	-30	0	-3	-35	-58	-31	0	0	2	1	1	0
S10	68	280	-4	-40	-65	-47	0	-3	-43	-68	-55	0	0	2	1	5	0
S10	68	310	-9	-22	-34	-79	0	-11	-27	-38	-92	0	0	-2	1	10	0
S10	68	340	-6	-38	-1	-18	0	-11	-35	-8	-19	0	0	-2	1	5	0
S10	76	10	6	22	39	39	0	8	24	51	58	0	-2	-2	-10	-18	0
S10	76	40	10	27	61	46	0	16	31	77	66	0	-2	-7	-15	-18	0
S10	76	70	1	27	50	39	0	2	31	67	53	0	-2	-7	-15	-18	0
S10	76	100	1	22	23	26	0	-3	24	32	32	0	-2	-2	-5	-9	0
S10	76	130	6	17	1	12	0	5	21	6	15	0	-2	-2	0	-5	0
S10	76	160	6	17	1	-2	0	8	21	2	-3	0	-2	-2	0	0	0
S10	76	190	-3	4	-9	-9	0	-5	6	-14	-11	0	-2	-2	0	5	0
S10	76	220	-3	-14	-37	-15	0	-3	-15	-49	-24	0	-2	3	9	9	0
S10	76	250	-8	-28	-47	-22	0	-8	-33	-62	-33	0	3	3	14	9	0
S10	76	280	-3	-37	-53	-36	0	-3	-44	-72	-50	0	3	8	14	14	0
S10	76	310	-8	-19	-31	-63	0	-11	-25	-36	-84	0	3	3	9	27	0
S10	76	340	-3	-37	1	-15	0	-5	-41	-1	-20	0	3	8	0	5	0
S10	84	10	4	14	27	18	0	5	24	43	37	0	1	-7	-11	-17	0
S10	84	40	8	20	37	23	0	15	24	54	37	0	-5	-7	-16	-17	0
S10	84	70	0	20	33	18	0	5	24	54	37	0	1	-7	-16	-17	0
S10	84	100	-1	16	16	13	0	-5	24	20	22	0	1	-2	-11	-7	0

S10	84	130	4	12	1	6	0	5	14	9	8	0	1	-2	0	-2	0
S10	84	160	4	12	1	1	0	5	14	-3	-6	0	-5	-7	0	3	0
S10	84	190	-3	3	-7	-2	0	-5	4	-14	-6	0	1	-2	0	3	0
S10	84	220	-1	-10	-24	-7	0	-5	-15	-37	-20	0	1	4	11	8	0
S10	84	250	-5	-20	-30	-12	0	-5	-25	-49	-20	0	1	9	16	8	0
S10	84	280	-1	-25	-35	-19	0	-5	-35	-49	-34	0	1	9	16	13	0
S10	84	310	-5	-16	-18	-31	0	-5	-15	-26	-49	0	1	4	11	23	0
S10	84	340	-3	-25	-1	-7	0	-5	-35	-3	-6	0	1	9	0	3	0
S10	90	10	6	6	16	5	0	4	13	23	13	0	0	-3	-7	-10	0
S10	90	40	6	12	22	5	0	7	19	33	17	0	0	-3	-12	-10	0
S10	90	70	0	12	22	5	0	1	19	30	13	0	0	0	-7	-10	0
S10	90	100	0	12	10	5	0	-1	16	13	10	0	0	-3	-2	-5	0
S10	90	130	0	12	4	5	0	1	10	3	6	0	0	-3	-2	0	0
S10	90	160	0	6	-3	5	0	4	10	0	2	0	0	-3	-2	0	0
S10	90	190	-5	0	-3	-2	0	-4	1	-7	-2	0	0	-3	3	6	0
S10	90	220	0	-5	-15	-2	0	-1	-10	-20	-6	0	0	2	9	6	0
S10	90	250	-5	-11	-21	-2	0	-4	-19	-27	-10	0	0	2	9	6	0
S10	90	280	0	-17	-21	-9	0	-1	-22	-30	-13	0	0	8	9	6	0
S10	90	310	-5	-11	-9	-16	0	-4	-13	-17	-25	0	0	2	3	11	0
S10	90	340	0	-17	-3	-2	0	-1	-22	0	-6	0	0	8	-2	0	0
S11	30	10	1	-7	-45	-54	0	-2	-6	-25	-26	0	-2	-2	-23	-32	0
S11	30	40	1	1	-36	-65	0	-2	5	-8	-38	0	-2	-2	-32	-23	0
S11	30	70	-7	1	-36	-34	0	-2	-1	-8	-13	0	-2	-2	-23	-18	0
S11	30	100	10	-7	9	26	0	3	-12	3	18	0	2	-2	5	10	0
S11	30	130	1	-7	54	117	0	-2	-1	42	92	0	2	-2	14	19	0
S11	30	160	-7	10	89	137	0	-8	5	59	92	0	2	3	27	42	0
S11	30	190	-7	10	71	117	0	-2	5	42	55	0	-2	11	32	52	0
S11	30	220	-7	1	36	36	0	-8	5	3	-7	0	2	-2	36	42	0
S11	30	250	-7	1	-9	-54	0	3	10	-37	-57	0	-7	-2	23	10	0
S11	30	280	10	1	-54	-85	0	9	-1	-42	-57	0	2	3	-9	-23	0
S11	30	310	1	1	-45	-75	0	3	-1	-20	-32	0	2	-2	-23	-41	0
S11	30	340	10	-7	-36	-65	0	9	-6	-8	-26	0	2	-2	-27	-37	0
S11	40	10	0	9	-44	-75	0	2	8	-40	-59	0	-1	4	-4	-16	0
S11	40	40	0	12	-36	-66	0	2	3	-35	-69	0	-1	12	0	5	0
S11	40	70	10	12	-21	-29	0	9	3	-21	-23	0	3	8	0	-8	0
S11	40	100	0	-5	3	21	0	-1	-7	6	26	0	3	0	-4	-3	0
S11	40	130	4	2	38	81	0	-1	1	35	72	0	3	0	4	10	0
S11	40	160	0	12	61	117	0	-3	11	54	91	0	3	0	4	27	0
S11	40	190	0	16	84	122	0	2	16	73	94	0	-1	0	12	27	0
S11	40	220	-3	16	73	81	0	-1	18	57	63	0	-1	-4	12	14	0
S11	40	250	-3	-5	18	-11	0	-3	-2	24	-4	0	-1	-4	-4	-8	0
S11	40	280	-3	-22	-13	-71	0	-1	-12	-2	-56	0	-1	-12	-8	-12	0
S11	40	310	-3	-29	-83	-89	0	-3	-20	-75	-69	0	-1	-8	-8	-20	0
S11	40	340	-3	-19	-79	-80	0	-1	-20	-75	-66	0	-1	0	-4	-16	0
S11	52	10	13	55	-21	-85	0	9	55	-9	-75	0	4	-1	-12	-8	0
S11	52	40	21	60	-11	-65	0	15	60	-1	-57	0	4	-1	-9	-8	0
S11	52	70	18	57	-9	-34	0	9	49	0	-30	0	8	7	-9	-4	0
S11	52	100	13	33	21	21	0	16	34	31	30	0	-3	-1	-12	-8	0
S11	52	130	21	-12	41	86	0	27	-14	33	83	0	-7	-1	7	0	0
S11	52	160	20	25	83	120	0	27	23	61	108	0	-7	3	22	12	0
S11	52	190	12	4	75	117	0	12	4	49	106	0	0	3	26	12	0
S11	52	220	-12	-31	35	146	0	-9	-31	15	133	0	-3	-1	18	12	0
S11	52	250	-35	-54	-27	-29	0	-41	-57	-30	-34	0	8	3	3	4	0
S11	52	280	-40	-64	-63	-82	0	-42	-55	-51	-85	0	4	-8	-12	4	0
S11	52	310	-31	-58	-59	-99	0	-27	-57	-46	-92	0	-3	-1	-12	-8	0
S11	52	340	0	-14	-63	-97	0	4	-11	-54	-87	0	-3	-4	-9	-8	0
S11	60	10	17	55	-30	-94	0	15	55	-27	-88	0	3	0	-6	-7	0

S11	60	40	26	60	-18	-73	0	21	59	-14	-68	0	3	0	-6	-2	0
S11	60	70	26	64	-18	-37	0	18	59	-10	-34	0	7	4	-6	-2	0
S11	60	100	13	31	11	12	0	12	32	18	20	0	-1	0	-6	-2	0
S11	60	130	17	-11	45	89	0	18	-12	42	88	0	-1	0	7	2	0
S11	60	160	13	27	103	131	0	18	25	91	127	0	-5	0	11	6	0
S11	60	190	13	3	97	124	0	12	5	82	122	0	-1	0	11	2	0
S11	60	220	-17	-30	51	159	0	-12	-29	42	151	0	-1	0	11	6	0
S11	60	250	-30	-53	-24	-23	0	-34	-53	-27	-29	0	3	0	2	2	0
S11	60	280	-39	-72	-76	-80	0	-40	-67	-67	-83	0	-1	-8	-6	2	0
S11	60	310	-34	-58	-70	-101	0	-31	-56	-63	-102	0	-1	0	-6	-2	0
S11	60	340	-4	-16	-70	-108	0	0	-16	-67	-102	0	-1	0	-6	-2	0
S11	68	10	19	54	-35	-92	0	20	59	-36	-101	0	0	-4	-1	11	0
S11	68	40	30	58	-24	-69	0	28	59	-24	-73	0	0	-4	-1	6	0
S11	68	70	30	67	-21	-36	0	28	69	-24	-44	0	0	0	-1	2	0
S11	68	100	10	32	8	10	0	11	31	11	13	0	0	0	-1	-3	0
S11	68	130	14	-8	50	86	0	20	-6	58	99	0	-4	0	-1	-12	0
S11	68	160	9	25	105	123	0	11	31	105	141	0	-4	0	-6	-16	0
S11	68	190	13	3	102	121	0	11	3	105	141	0	0	0	-6	-16	0
S11	68	220	-16	-30	59	152	0	-14	-34	58	170	0	0	0	-1	-16	0
S11	68	250	-28	-50	-23	-23	0	-31	-53	-24	-30	0	5	4	3	2	0
S11	68	280	-37	-77	-75	-74	0	-40	-81	-83	-87	0	0	0	7	11	0
S11	68	310	-36	-58	-73	-98	0	-40	-62	-71	-115	0	0	4	3	15	0
S11	68	340	-6	-16	-73	-100	0	-6	-16	-71	-115	0	0	0	7	15	0
S11	76	10	19	44	-28	-70	0	20	57	-39	-91	0	-2	-9	7	21	0
S11	76	40	28	49	-22	-55	0	34	63	-28	-73	0	-7	-14	7	17	0
S11	76	70	28	59	-16	-26	0	34	72	-24	-39	0	-7	-14	3	8	0
S11	76	100	5	29	8	10	0	10	33	6	8	0	-2	-4	-2	-1	0
S11	76	130	10	-6	44	68	0	13	-8	51	88	0	-2	0	-11	-18	0
S11	76	160	5	19	92	98	0	7	27	114	131	0	-2	-4	-20	-27	0
S11	76	190	10	4	86	98	0	13	4	111	126	0	-2	0	-20	-27	0
S11	76	220	-13	-26	50	119	0	-17	-32	66	159	0	2	5	-16	-36	0
S11	76	250	-22	-42	-22	-19	0	-30	-52	-24	-25	0	7	10	3	4	0
S11	76	280	-31	-67	-64	-62	0	-40	-85	-80	-77	0	7	15	16	17	0
S11	76	310	-31	-47	-64	-77	0	-38	-61	-76	-101	0	7	10	16	21	0
S11	76	340	-8	-16	-64	-84	0	-6	-17	-76	-106	0	2	5	16	21	0
S11	84	10	12	30	-20	-53	0	17	39	-30	-64	0	-3	-12	5	12	0
S11	84	40	20	34	-14	-38	0	27	50	-18	-50	0	-8	-12	5	12	0
S11	84	70	22	40	-12	-16	0	27	61	-18	-20	0	-8	-18	5	8	0
S11	84	100	5	18	6	12	0	7	29	7	10	0	-3	-7	0	3	0
S11	84	130	7	-4	29	49	0	7	-4	33	54	0	-3	4	-10	-12	0
S11	84	160	3	14	62	68	0	7	18	83	84	0	-3	-7	-20	-21	0
S11	84	190	7	2	62	66	0	7	-4	83	84	0	-3	-2	-20	-16	0
S11	84	220	-10	-16	36	81	0	-12	-25	45	114	0	3	9	-10	-26	0
S11	84	250	-16	-28	-14	-8	0	-22	-36	-18	-20	0	8	9	5	3	0
S11	84	280	-21	-46	-46	-43	0	-31	-68	-56	-50	0	8	20	14	12	0
S11	84	310	-23	-32	-44	-58	0	-31	-46	-56	-64	0	8	14	14	12	0
S11	84	340	-5	-8	-44	-60	0	-2	-14	-56	-79	0	3	4	14	12	0
S11	90	10	11	20	-13	-44	0	12	27	-19	-44	0	-1	-10	1	1	0
S11	90	40	16	20	-7	-31	0	18	30	-13	-33	0	-7	-10	1	1	0
S11	90	70	16	26	-7	-11	0	21	36	-9	-14	0	-1	-10	1	1	0
S11	90	100	0	8	4	15	0	4	18	4	9	0	-1	-4	1	6	0
S11	90	130	0	-3	22	42	0	6	-4	28	44	0	-1	1	-4	1	0
S11	90	160	0	8	45	55	0	1	11	54	59	0	-1	-4	-9	-4	0
S11	90	190	5	2	45	55	0	6	2	54	55	0	-1	1	-9	-4	0
S11	90	220	-5	-9	28	62	0	-11	-16	31	71	0	4	6	-4	-4	0
S11	90	250	-11	-15	-7	-4	0	-14	-26	-13	-6	0	4	6	1	1	0
S11	90	280	-11	-32	-36	-37	0	-19	-41	-39	-37	0	4	12	6	1	0

S11	90	310	-16	-21	-36	-51	0	-19	-29	-39	-52	0	4	12	6	1	0
S11	90	340	-5	-3	-36	-51	0	-5	-7	-39	-52	0	-1	1	6	1	0
S12	30	10	4	-4	-50	-41	0	5	-5	-25	-23	0	-2	0	-26	-18	0
S12	30	40	4	-13	-41	-30	0	5	-10	-13	-16	0	-2	0	-26	-13	0
S12	30	70	-4	-4	-41	-30	0	-6	-5	-19	-16	0	2	0	-22	-13	0
S12	30	100	-4	-21	-23	2	0	-1	-16	-2	16	0	-2	-9	-22	-13	0
S12	30	130	4	-4	14	44	0	5	6	44	55	0	-2	-9	-26	-13	0
S12	30	160	-4	4	59	87	0	-1	6	61	80	0	-2	0	-8	6	0
S12	30	190	-4	21	95	119	0	-1	23	67	80	0	2	-4	24	39	0
S12	30	220	4	4	77	44	0	-1	-5	15	10	0	2	9	55	30	0
S12	30	250	-4	13	5	-20	0	-1	6	-36	-29	0	-2	4	46	11	0
S12	30	280	4	13	-32	-62	0	-1	6	-36	-68	0	2	9	10	11	0
S12	30	310	4	4	-5	-62	0	-1	1	-13	-55	0	2	0	6	-8	0
S12	30	340	-4	-13	-59	-52	0	-1	-10	-42	-35	0	2	0	-12	-18	0
S12	40	10	-6	13	3	-12	0	-8	4	-12	-14	0	4	8	14	3	0
S12	40	40	7	34	7	-2	0	13	17	-15	-2	0	-4	16	22	-2	0
S12	40	70	18	38	11	17	0	20	15	-15	27	0	-4	24	26	-6	0
S12	40	100	11	16	15	32	0	13	-1	-3	46	0	-4	16	14	-15	0
S12	40	130	7	5	15	72	0	10	-9	28	91	0	-4	12	-11	-20	0
S12	40	160	4	2	52	101	0	7	-1	81	107	0	-4	4	-28	-6	0
S12	40	190	1	-2	73	86	0	5	15	90	72	0	-4	-16	-15	12	0
S12	40	220	-10	-16	-1	2	0	-10	9	16	-14	0	4	-24	-19	16	0
S12	40	250	-13	-34	-46	-57	0	-26	-33	-37	-62	0	11	-4	-7	7	0
S12	40	280	-13	-38	-63	-96	0	-21	-27	-57	-97	0	7	-8	-7	-2	0
S12	40	310	-6	-16	-59	-91	0	-3	4	-60	-94	0	0	-20	1	3	0
S12	40	340	1	-2	-9	-52	0	0	7	-17	-59	0	0	-8	10	12	0
S12	52	10	11	38	75	-14	0	9	35	73	-1	0	2	2	2	-15	0
S12	52	40	12	48	52	-9	0	10	45	51	7	0	2	2	2	-15	0
S12	52	70	19	54	71	8	0	17	47	70	17	0	2	6	2	-11	0
S12	52	100	12	65	49	21	0	10	58	44	29	0	2	10	6	-7	0
S12	52	130	17	53	15	57	0	19	41	10	43	0	-2	10	6	13	0
S12	52	160	12	12	24	95	0	14	10	19	68	0	-2	2	6	25	0
S12	52	190	3	-22	5	84	0	1	-19	3	62	0	2	-2	2	21	0
S12	52	220	-7	-74	-70	-3	0	-4	-65	-59	-10	0	-2	-9	-13	5	0
S12	52	250	-26	-101	-106	-66	0	-23	-91	-98	-60	0	-2	-9	-9	-7	0
S12	52	280	-35	-13	-97	-74	0	-32	-11	-98	-73	0	-2	-2	-2	1	0
S12	52	310	-18	-60	-46	-61	0	-19	-52	-44	-58	0	2	-9	-2	-3	0
S12	52	340	-2	0	28	-36	0	-3	3	30	-24	0	2	-2	-2	-11	0
S12	60	10	12	41	79	-22	0	12	37	78	-24	0	0	2	2	-1	0
S12	60	40	16	51	54	-22	0	12	47	52	-18	0	0	2	-2	-6	0
S12	60	70	21	60	73	3	0	19	54	74	4	0	4	6	-2	-1	0
S12	60	100	16	70	54	11	0	12	68	52	21	0	0	2	2	-6	0
S12	60	130	16	65	17	67	0	15	54	17	66	0	0	6	2	3	0
S12	60	160	12	17	30	116	0	12	13	26	105	0	0	2	2	7	0
S12	60	190	3	-25	5	100	0	3	-21	4	93	0	0	-2	2	7	0
S12	60	220	-10	-82	-81	3	0	-7	-75	-74	-1	0	0	-6	-2	3	0
S12	60	250	-28	-111	-112	-70	0	-26	-102	-108	-68	0	0	-6	-2	-1	0
S12	60	280	-37	-16	-94	-78	0	-35	-14	-100	-74	0	-4	-2	2	-1	0
S12	60	310	-19	-68	-50	-62	0	-16	-61	-48	-63	0	0	-6	-2	3	0
S12	60	340	-1	-2	24	-46	0	-1	0	26	-40	0	0	-2	-2	-6	0
S12	68	10	13	41	74	-24	0	9	46	83	-31	0	0	-1	-9	4	0
S12	68	40	14	52	49	-24	0	18	55	58	-31	0	0	-1	-4	4	0
S12	68	70	21	63	68	-2	0	18	65	70	1	0	0	-1	-9	-1	0
S12	68	100	14	71	51	10	0	18	74	58	18	0	0	-1	-4	-5	0
S12	68	130	14	69	21	65	0	18	65	20	67	0	0	-1	0	-9	0
S12	68	160	10	15	27	112	0	9	17	33	133	0	0	-1	-4	-18	0
S12	68	190	6	-26	6	97	0	9	-30	7	116	0	0	-1	0	-14	0

S12	68	220	-10	-83	-78	5	0	-9	-87	-81	1	0	0	3	9	-1	0
S12	68	250	-28	-112	-108	-67	0	-27	-116	-119	-81	0	0	3	13	12	0
S12	68	280	-40	-16	-89	-69	0	-44	-21	-106	-81	0	0	-1	9	12	0
S12	68	310	-17	-70	-46	-59	0	-18	-68	-56	-64	0	0	3	4	8	0
S12	68	340	0	-4	25	-44	0	0	-2	33	-48	0	0	-1	-4	8	0
S12	76	10	11	36	65	-20	0	13	46	74	-26	0	-2	-9	-14	7	0
S12	76	40	16	47	40	-20	0	16	55	50	-26	0	-2	-9	-9	7	0
S12	76	70	21	57	59	-4	0	24	69	70	0	0	-2	-14	-9	3	0
S12	76	100	16	62	46	12	0	16	75	54	10	0	-2	-14	-9	3	0
S12	76	130	11	62	21	51	0	16	75	23	62	0	-2	-14	-5	-10	0
S12	76	160	7	11	21	90	0	10	16	27	114	0	-2	-4	-5	-19	0
S12	76	190	7	-24	3	82	0	7	-29	7	93	0	-2	6	0	-15	0
S12	76	220	-11	-74	-66	4	0	-12	-89	-79	5	0	3	15	14	-2	0
S12	76	250	-25	-99	-91	-51	0	-31	-122	-111	-63	0	3	25	18	7	0
S12	76	280	-34	-14	-78	-59	0	-42	-17	-91	-68	0	8	1	14	7	0
S12	76	310	-16	-59	-41	-51	0	-17	-74	-48	-58	0	3	15	9	7	0
S12	76	340	-2	-4	21	-35	0	-1	-5	23	-42	0	-2	1	-5	7	0
S12	84	10	8	25	49	-16	0	15	38	56	-21	0	-1	-10	-9	0	0
S12	84	40	10	31	33	-16	0	15	38	43	-21	0	-1	-10	-4	5	0
S12	84	70	15	41	44	2	0	15	49	56	-5	0	-6	-15	-9	0	0
S12	84	100	10	43	36	10	0	15	60	43	11	0	-1	-15	-4	0	0
S12	84	130	8	45	16	46	0	15	60	17	42	0	-1	-15	-4	0	0
S12	84	160	6	9	18	77	0	5	17	17	90	0	-1	-5	-4	-4	0
S12	84	190	5	-16	5	67	0	5	-26	4	74	0	-1	6	1	-4	0
S12	84	220	-6	-52	-51	5	0	-5	-69	-61	11	0	-1	16	10	0	0
S12	84	250	-19	-69	-75	-50	0	-24	-90	-87	-53	0	4	27	10	0	0
S12	84	280	-26	-10	-62	-52	0	-33	-13	-69	-54	-5	4	6	10	0	0
S12	84	310	-10	-42	-29	-42	0	-15	-58	-35	-37	0	4	16	6	0	0
S12	84	340	-1	-3	16	-32	0	-5	-5	17	-37	0	-1	0	-4	0	0
S12	90	10	6	17	45	-19	0	8	24	44	-16	0	0	-7	1	-2	0
S12	90	40	6	22	28	-12	0	10	27	31	-12	0	0	-7	1	-2	0
S12	90	70	11	28	39	2	0	13	36	41	0	0	-5	-7	1	2	0
S12	90	100	6	28	33	15	0	10	39	31	12	0	0	-12	1	2	0
S12	90	130	6	33	16	49	0	8	39	14	45	0	0	-7	1	7	0
S12	90	160	6	6	16	76	0	5	9	17	69	0	0	-1	1	7	0
S12	90	190	6	-11	5	69	0	5	-15	4	61	0	0	4	1	7	0
S12	90	220	-4	-39	-47	8	0	-6	-45	-46	4	0	0	9	1	2	0
S12	90	250	-15	-50	-70	-52	0	-17	-64	-69	-45	0	0	14	-4	-7	0
S12	90	280	-20	-6	-58	-59	0	-26	-9	-56	-49	0	5	4	-4	-7	0
S12	90	310	-9	-28	-24	-46	0	-9	-39	-26	-40	0	0	9	1	-7	0
S12	90	340	1	0	16	-32	0	-1	-3	14	-28	0	0	-1	1	-2	0
S13	30	10	2	-4	-15	-23	0	4	-5	-7	-2	0	-2	1	-8	-20	0
S13	30	40	1	-4	-17	-32	0	0	-4	-6	-13	0	0	1	-11	-17	0
S13	30	70	0	-2	-20	-26	0	-1	-4	-10	-17	0	2	2	-9	-8	0
S13	30	100	1	-5	-7	-2	0	-1	-5	0	-1	0	2	0	-5	-1	0
S13	30	130	-1	0	10	37	0	-2	0	13	33	0	2	1	-1	5	0
S13	30	160	-2	2	27	55	0	-2	0	22	40	0	1	2	4	15	0
S13	30	190	2	7	31	53	0	1	4	22	26	0	3	3	10	25	0
S13	30	220	-5	2	24	29	0	-5	5	6	6	0	0	-2	18	22	0
S13	30	250	0	3	5	-4	0	0	7	-12	-13	0	0	-1	18	11	0
S13	30	280	11	11	-9	-25	0	11	10	-12	-25	0	0	0	3	2	0
S13	30	310	-2	0	-8	-28	0	0	3	-5	-17	0	-1	-2	-3	-10	0
S13	30	340	0	-4	-13	-25	0	4	-4	-3	-7	0	-2	0	-9	-18	0
S13	40	10	-3	2	-4	-25	0	-6	-4	-9	-19	0	3	7	5	-6	0
S13	40	40	0	9	-6	-24	0	-2	3	-11	-23	0	2	6	5	-1	0
S13	40	70	6	12	-8	-44	0	6	7	-15	-43	0	0	5	7	0	0
S13	40	100	5	2	-11	-3	0	4	0	-14	-1	0	1	3	3	-1	0

S13	40	130	2	-2	-1	40	0	2	-2	4	39	0	0	-1	-5	1	0
S13	40	160	2	1	21	48	0	3	5	28	43	0	-1	-3	-6	4	0
S13	40	190	-2	2	34	54	0	-1	8	41	51	0	0	-6	-5	4	0
S13	40	220	-2	1	27	37	0	-1	9	37	31	0	0	-7	-9	5	0
S13	40	250	0	-5	5	11	0	3	-4	7	8	0	-2	-1	-1	3	0
S13	40	280	0	-8	-16	-21	0	0	-4	-16	-23	0	0	-2	1	2	0
S13	40	310	0	-5	-23	-34	0	0	-5	-27	-31	0	0	0	4	-2	0
S13	40	340	-2	-2	-11	-30	0	-4	-7	-19	-25	0	2	5	8	-4	0
S13	52	10	11	25	13	-21	0	10	22	13	-19	0	1	2	1	0	0
S13	52	40	17	34	17	-16	0	16	32	15	-17	0	2	3	2	1	0
S13	52	70	15	33	19	-10	0	13	28	16	-13	0	1	4	3	3	0
S13	52	100	7	21	10	5	0	5	17	8	4	0	2	-1	2	2	0
S13	52	130	3	3	7	29	0	2	4	5	24	0	1	0	1	5	0
S13	52	160	2	5	24	48	0	1	6	23	46	0	0	0	1	2	0
S13	52	190	-1	-3	16	45	0	0	0	16	45	0	0	-1	0	1	0
S13	52	220	-9	-22	-4	30	0	-7	-19	-2	34	0	-1	-3	-2	-2	0
S13	52	250	-17	-31	-23	-8	0	-14	-29	-19	-4	0	-1	-1	-3	-4	0
S13	52	280	-20	-30	-35	-32	0	-19	-29	-33	-29	0	0	0	-2	-2	0
S13	52	310	-11	-27	-24	-37	0	-10	-26	-22	-35	0	0	0	0	-1	0
S13	52	340	6	-1	-14	-29	0	6	-2	-14	-27	0	0	1	0	-1	0
S13	60	10	13	27	13	-22	0	12	25	14	-22	0	0	2	0	0	0
S13	60	40	18	37	19	-15	0	17	35	18	-16	0	1	2	1	1	0
S13	60	70	16	37	23	-6	0	15	34	20	-8	0	1	3	1	2	0
S13	60	100	9	24	12	7	0	7	20	10	7	0	1	5	1	1	0
S13	60	130	4	2	8	33	0	3	3	7	32	0	1	0	1	1	0
S13	60	160	2	5	25	50	0	2	5	24	50	0	1	0	0	0	0
S13	60	190	-1	-5	15	45	0	-1	-3	15	46	0	0	-1	0	0	0
S13	60	220	-11	-26	-7	28	0	-9	-23	-4	29	0	0	-1	0	-1	0
S13	60	250	-19	-34	-25	-10	0	-17	-31	-24	-9	0	-2	-1	-1	0	0
S13	60	280	-21	-32	-37	-33	0	-20	-30	-36	-33	0	0	0	0	0	0
S13	60	310	-12	-28	-25	-39	0	-11	-27	-24	-38	0	0	-1	0	0	0
S13	60	340	6	-1	-15	-31	0	6	-1	-14	-30	0	0	0	0	0	0
S13	68	10	13	28	13	-20	0	13	29	14	-24	0	0	0	-1	3	0
S13	68	40	19	37	19	-14	0	19	39	20	-17	0	0	0	0	2	0
S13	68	70	17	39	22	-4	0	17	41	22	-6	0	0	0	0	1	0
S13	68	100	9	28	12	6	0	9	26	13	7	0	0	1	0	-1	0
S13	68	130	4	1	8	33	0	5	2	8	38	0	0	0	0	-4	0
S13	68	160	3	5	23	45	0	3	5	26	53	0	0	0	-2	-6	0
S13	68	190	-2	-6	14	42	0	-2	-6	16	49	0	1	0	-1	-6	0
S13	68	220	-12	-27	-6	24	0	-11	-28	-5	29	0	0	0	1	-3	0
S13	68	250	-21	-35	-26	-11	0	-20	-36	-28	-13	0	0	2	2	1	0
S13	68	280	-21	-32	-36	-32	0	-22	-34	-41	-37	0	1	1	3	5	0
S13	68	310	-11	-30	-24	-35	0	-14	-30	-26	-40	0	0	2	2	6	0
S13	68	340	7	-1	-14	-28	0	6	0	-13	-33	0	0	0	2	6	0
S13	76	10	12	24	11	-16	0	14	30	13	-20	0	-1	-4	-1	4	0
S13	76	40	16	33	16	-9	0	19	39	20	-12	0	-2	-6	-2	3	0
S13	76	70	16	34	20	-3	0	18	42	23	-3	0	-2	-6	-3	0	0
S13	76	100	9	26	10	5	0	11	31	12	6	0	-1	-3	-1	0	0
S13	76	130	5	1	7	26	0	6	1	9	34	0	0	0	0	-6	0
S13	76	160	3	3	19	35	0	4	4	24	46	0	0	0	-3	-9	0
S13	76	190	-1	-6	11	33	0	-2	-8	15	42	0	0	1	-2	-7	0
S13	76	220	-10	-24	-5	19	0	-13	-29	-6	23	0	2	5	1	-4	0
S13	76	250	-20	-31	-22	-7	0	-24	-37	-27	-12	0	3	7	5	2	0
S13	76	280	-18	-28	-31	-26	0	-21	-34	-38	-33	0	4	6	7	7	0
S13	76	310	-12	-26	-20	-27	0	-14	-31	-24	-35	0	2	6	5	8	0
S13	76	340	6	-1	-11	-22	0	7	-1	-15	-28	0	0	0	3	6	0
S13	84	10	9	18	8	-14	0	10	24	9	-13	0	-1	-5	-1	0	0

S13	84	40	12	23	12	-8	0	16	30	16	-10	0	-2	-7	-2	1	0
S13	84	70	11	25	14	-3	0	14	31	18	-1	0	-2	-7	-3	0	0
S13	84	100	7	21	8	3	0	8	25	10	4	0	-1	-4	-1	-1	0
S13	84	130	4	1	5	20	0	5	1	7	23	0	0	0	0	-3	0
S13	84	160	3	2	14	26	0	4	3	16	33	0	0	0	-3	-3	0
S13	84	190	-1	-4	8	25	0	-2	-7	9	30	0	0	2	-1	-3	0
S13	84	220	-8	-17	-3	14	0	-10	-22	-4	17	0	2	6	2	-2	0
S13	84	250	-15	-22	-17	-4	0	-18	-27	-21	-8	0	4	7	5	3	0
S13	84	280	-12	-21	-23	-18	0	-17	-27	-28	-24	0	4	7	5	5	0
S13	84	310	-9	-19	-14	-18	0	-12	-24	-16	-22	0	2	6	4	5	0
S13	84	340	4	0	-8	-16	0	5	0	-11	-21	0	0	0	3	3	0
S13	90	10	7	13	8	-15	0	8	17	7	-13	0	0	-3	0	-1	0
S13	90	40	9	15	11	-9	0	11	21	11	-7	0	-1	-3	0	-1	0
S13	90	70	8	18	11	-3	0	10	23	13	-2	0	-2	-3	0	0	0
S13	90	100	5	16	6	2	0	6	19	7	3	0	0	-1	0	0	0
S13	90	130	3	1	5	18	0	3	0	5	18	0	0	0	0	1	0
S13	90	160	1	2	12	25	0	2	1	12	23	0	0	0	0	2	0
S13	90	190	-1	-2	8	24	0	-1	-4	7	22	0	0	1	0	1	0
S13	90	220	-4	-12	-2	13	0	-7	-15	-3	11	0	1	3	1	1	0
S13	90	250	-11	-16	-14	-2	0	-14	-20	-15	-4	0	2	3	0	1	0
S13	90	280	-8	-16	-22	-16	0	-12	-19	-21	-15	0	3	3	0	1	0
S13	90	310	-7	-13	-12	-16	0	-7	-16	-12	-15	0	1	3	0	0	0
S13	90	340	4	0	-7	-15	0	4	0	-7	-14	0	0	0	1	-1	0

-----END OF FILE WRITTEN-----

RANDOM PERTURBATIONS, CODE K

R	1	25	11	21	40	77	85	14	18	40	53	55	13	18	28	46	51
R	1	30	18	28	47	98	110	14	29	49	91	101	18	23	32	41	44
R	1	35	28	36	56	112	125	24	34	55	103	117	20	27	42	57	61
R	1	40	33	46	77	134	149	31	39	61	114	128	18	29	61	64	65
R	1	45	36	54	103	161	177	38	51	84	136	151	20	26	55	58	59
R	1	50	40	60	119	183	201	40	57	108	164	181	21	23	42	47	47
R	1	55	44	65	125	189	207	42	61	133	200	219	18	29	43	46	46
R	1	60	48	72	123	179	194	46	72	130	198	217	23	34	39	51	54
R	1	65	55	74	115	166	180	51	86	134	191	205	34	39	44	52	54
R	1	70	67	75	106	150	162	66	89	131	185	199	44	46	50	55	57
R	1	75	74	74	95	123	131	86	93	123	171	177	52	69	76	73	72
R	1	80	92	93	102	99	99	81	92	117	150	160	52	60	76	96	101
R	1	85	110	114	115	93	84	102	95	112	131	137	65	70	69	83	86
R	1	90	146	134	119	83	62	130	167	162	116	96	106	108	110	104	101
R	1	100	132	132	132	132	132	154	154	154	154	154	75	75	75	75	75
R	1	120	183	183	183	183	183	79	79	79	79	79	211	211	211	211	211
R	1	140	125	125	125	125	125	72	72	72	72	72	146	146	146	146	146
R	1	160	90	90	90	90	90	65	65	65	65	65	105	105	105	105	105
R	1	180	71	71	71	71	71	58	58	58	58	58	81	81	81	81	81
R	1	200	61	61	61	61	61	52	52	52	52	52	69	69	69	69	69
R	2	25	13	19	35	37	35	18	21	26	28	27	14	16	35	41	42
R	2	30	19	24	52	64	67	12	23	40	59	64	17	22	33	58	62
R	2	35	29	32	68	81	82	24	31	53	83	92	22	26	36	58	62
R	2	40	35	41	84	99	101	33	36	70	85	91	21	28	39	62	66
R	2	45	40	50	98	122	127	39	42	89	106	110	21	27	40	58	63
R	2	50	44	59	106	138	144	42	52	100	136	146	20	24	35	71	80
R	2	55	48	67	112	152	159	47	60	113	164	176	16	30	42	95	109
R	2	60	51	75	117	166	177	49	73	113	171	183	23	34	35	102	120
R	2	65	57	79	117	170	184	53	86	128	182	194	32	37	45	53	56
R	2	70	69	79	112	161	176	68	93	133	188	202	44	45	49	54	55
R	2	75	75	78	103	141	152	86	97	130	181	195	52	67	73	70	69

R	2	80	93	93	106	118	122	81	95	123	166	178	52	61	75	92	97
R	2	85	110	111	114	104	100	103	96	118	147	156	65	70	70	84	88
R	2	90	146	133	118	88	72	130	163	159	127	114	106	111	114	107	105
R	2	100	132	132	132	132	132	154	154	154	154	154	75	75	75	75	75
R	2	120	183	183	183	183	183	79	79	79	79	79	211	211	211	211	211
R	2	140	125	125	125	125	125	72	72	72	72	72	146	146	146	146	146
R	2	160	90	90	90	90	90	65	65	65	65	65	105	105	105	105	105
R	2	180	71	71	71	71	71	58	58	58	58	58	81	81	81	81	81
R	2	200	61	61	61	61	61	52	52	52	52	52	69	69	69	69	69
R	3	25	22	27	32	74	82	26	27	44	67	72	14	16	33	38	39
R	3	30	27	34	42	84	94	20	28	36	82	93	16	19	35	44	46
R	3	35	38	42	58	95	105	25	37	46	87	96	22	22	32	47	50
R	3	40	50	50	70	112	124	32	39	66	97	105	25	24	34	46	50
R	3	45	64	64	78	130	145	41	43	66	105	115	34	27	35	43	45
R	3	50	86	79	91	150	165	66	58	77	127	140	27	28	32	38	40
R	3	55	96	93	103	163	177	93	76	88	152	167	20	29	36	37	38
R	3	60	95	101	115	175	189	104	106	99	161	176	25	31	35	43	46
R	3	65	70	94	128	187	203	79	104	126	182	196	24	32	40	46	48
R	3	70	75	92	128	190	207	77	105	141	199	215	39	41	44	48	49
R	3	75	78	89	122	181	198	91	109	146	208	225	49	62	64	61	60
R	3	80	92	92	114	158	170	83	104	139	204	221	52	63	71	81	83
R	3	85	109	105	111	130	135	103	99	130	184	198	66	71	72	85	90
R	3	90	145	129	112	97	91	128	151	153	153	153	108	121	122	116	114
R	3	100	132	132	132	132	132	154	154	154	154	154	75	75	75	75	75
R	3	120	183	183	183	183	183	79	79	79	79	79	211	211	211	211	211
R	3	140	125	125	125	125	125	72	72	72	72	72	146	146	146	146	146
R	3	160	90	90	90	90	90	65	65	65	65	65	105	105	105	105	105
R	3	180	71	71	71	71	71	58	58	58	58	58	81	81	81	81	81
R	3	200	61	61	61	61	61	52	52	52	52	52	69	69	69	69	69
R	4	25	17	20	20	29	32	22	17	16	27	29	14	13	15	23	25
R	4	30	22	26	30	42	47	15	22	18	28	30	15	16	20	26	29
R	4	35	30	33	43	58	64	25	23	29	37	40	18	20	28	27	31
R	4	40	35	40	59	78	86	32	32	40	49	53	17	20	34	37	42
R	4	45	38	48	77	103	113	39	38	52	67	70	19	20	33	46	53
R	4	50	41	57	94	127	138	38	43	71	100	108	19	21	32	40	44
R	4	55	47	68	109	143	155	41	51	88	126	136	16	23	31	30	31
R	4	60	54	81	125	157	161	48	63	105	137	152	24	26	32	34	35
R	4	65	62	96	140	176	190	56	83	126	143	155	30	28	31	48	51
R	4	70	73	101	146	201	219	72	109	150	177	196	43	38	36	44	45
R	4	75	79	100	143	216	233	91	120	164	225	245	49	56	50	48	46
R	4	80	92	90	124	198	215	85	115	157	235	251	53	66	66	63	59
R	4	85	108	94	104	162	178	103	103	146	227	243	66	72	75	86	88
R	4	90	144	122	102	110	118	125	134	143	183	196	110	133	132	126	123
R	4	100	132	132	132	132	132	154	154	154	154	154	75	75	75	75	75
R	4	120	183	183	183	183	183	79	79	79	79	79	211	211	211	211	211
R	4	140	125	125	125	125	125	72	72	72	72	72	146	146	146	146	146
R	4	160	90	90	90	90	90	65	65	65	65	65	105	105	105	105	105
R	4	180	71	71	71	71	71	58	58	58	58	58	81	81	81	81	81
R	4	200	61	61	61	61	61	52	52	52	52	52	69	69	69	69	69
R	5	25	12	16	21	20	21	16	18	17	22	23	15	13	12	20	22
R	5	30	20	21	29	29	30	10	17	19	23	23	17	17	17	24	26
R	5	35	33	30	38	41	43	17	23	29	27	26	22	19	19	24	27
R	5	40	46	38	48	56	59	26	26	35	38	38	24	18	24	30	32
R	5	45	62	48	60	72	77	48	34	42	48	50	26	20	23	31	35
R	5	50	70	59	72	90	97	65	45	55	67	71	28	22	24	31	34
R	5	55	76	68	83	102	110	74	59	67	87	95	26	23	24	24	25
R	5	60	76	77	97	109	120	88	66	79	102	107	25	27	28	24	23

R	5	65	66	87	111	127	134	70	81	101	98	105	26	31	31	39	41
R	5	70	74	90	116	148	155	74	99	120	128	135	40	40	35	36	36
R	5	75	78	91	116	162	172	90	107	131	164	170	48	54	50	41	36
R	5	80	92	92	109	152	163	82	99	126	177	189	52	62	62	53	48
R	5	85	109	105	108	128	134	105	115	133	171	181	65	70	70	73	74
R	5	90	145	128	108	92	87	124	129	140	159	165	107	113	112	108	107
R	5	100	132	132	132	132	132	154	154	154	154	154	75	75	75	75	75
R	5	120	183	183	183	183	183	79	79	79	79	79	211	211	211	211	211
R	5	140	125	125	125	125	125	72	72	72	72	72	146	146	146	146	146
R	5	160	90	90	90	90	90	65	65	65	65	65	105	105	105	105	105
R	5	180	71	71	71	71	71	58	58	58	58	58	81	81	81	81	81
R	5	200	61	61	61	61	61	52	52	52	52	52	69	69	69	69	69
R	6	25	17	20	15	20	22	20	20	14	17	18	14	11	12	12	12
R	6	30	22	24	20	24	26	16	18	14	21	23	16	14	12	18	19
R	6	35	31	30	28	35	37	27	25	17	25	27	20	16	17	22	24
R	6	40	36	36	37	42	45	34	32	28	37	40	18	17	19	22	23
R	6	45	39	41	46	53	56	39	35	34	35	37	18	18	20	22	24
R	6	50	43	48	56	62	65	40	39	41	51	54	20	20	22	17	17
R	6	55	47	55	66	68	70	45	50	54	63	67	19	24	24	15	12
R	6	60	51	63	75	71	71	50	55	66	67	70	26	30	32	17	14
R	6	65	57	75	85	81	81	52	70	82	59	60	31	34	31	29	29
R	6	70	69	79	87	96	96	67	87	93	84	81	43	42	34	27	24
R	6	75	76	84	90	104	106	87	96	100	104	101	49	54	48	33	24
R	6	80	94	94	96	104	105	79	86	97	113	117	52	59	58	42	35
R	6	85	110	113	110	99	95	106	122	124	119	118	65	68	66	58	56
R	6	90	146	131	113	80	68	124	126	138	139	140	104	96	96	93	91
R	6	100	132	132	132	132	132	154	154	154	154	154	75	75	75	75	75
R	6	120	183	183	183	183	183	79	79	79	79	79	211	211	211	211	211
R	6	140	125	125	125	125	125	72	72	72	72	72	146	146	146	146	146
R	6	160	90	90	90	90	90	65	65	65	65	65	105	105	105	105	105
R	6	180	71	71	71	71	71	58	58	58	58	58	81	81	81	81	81
R	6	200	61	61	61	61	61	52	52	52	52	52	69	69	69	69	69
R	7	25	13	23	14	17	17	15	19	12	16	16	12	13	10	14	15
R	7	30	18	26	18	20	21	17	23	12	20	22	17	15	11	17	18
R	7	35	26	32	26	27	28	22	27	16	23	25	21	18	16	17	18
R	7	40	33	39	34	35	36	29	33	27	30	31	19	18	18	21	22
R	7	45	39	46	41	43	43	34	38	33	34	35	19	20	18	20	21
R	7	50	47	54	50	49	49	36	45	37	46	49	25	21	22	16	14
R	7	55	59	61	58	51	48	41	56	51	47	47	25	24	23	13	9
R	7	60	69	68	65	53	48	77	63	58	53	52	33	35	30	18	13
R	7	65	59	76	73	58	53	63	77	73	52	41	32	33	31	21	17
R	7	70	69	77	74	65	62	68	86	81	60	53	42	41	33	21	15
R	7	75	76	81	79	72	68	87	93	85	70	60	49	53	48	28	17
R	7	80	92	95	91	78	73	79	81	84	78	74	51	58	56	37	28
R	7	85	110	116	111	85	74	106	125	120	94	84	65	67	64	51	46
R	7	90	146	133	114	76	62	124	125	137	132	126	103	89	89	86	87
R	7	100	132	132	132	132	132	154	154	154	154	154	75	75	75	75	75
R	7	120	183	183	183	183	183	79	79	79	79	79	211	211	211	211	211
R	7	140	125	125	125	125	125	72	72	72	72	72	146	146	146	146	146
R	7	160	90	90	90	90	90	65	65	65	65	65	105	105	105	105	105
R	7	180	71	71	71	71	71	58	58	58	58	58	81	81	81	81	81
R	7	200	61	61	61	61	61	52	52	52	52	52	69	69	69	69	69
R	8	25	15	23	16	43	47	19	20	16	16	15	15	15	11	32	38
R	8	30	19	30	20	56	63	16	21	16	55	61	16	16	13	30	34
R	8	35	28	41	27	62	70	24	24	18	61	68	19	23	17	31	35
R	8	40	33	60	36	69	78	31	28	27	62	69	18	37	19	28	31
R	8	45	37	69	44	77	87	36	50	33	67	76	19	32	20	21	21

R 8	50	42	106	54	83	91	40	91	40	77	86	19	32	22	15	13
R 8	55	45	124	63	88	95	43	112	53	82	89	18	30	22	16	15
R 8	60	50	126	73	94	100	48	136	62	87	96	26	31	29	21	19
R 8	65	58	98	84	97	100	53	110	79	93	96	32	22	31	23	21
R 8	70	69	89	87	103	107	67	103	93	99	100	43	34	34	23	19
R 8	75	77	87	90	107	112	87	101	100	110	113	49	51	48	31	22
R 8	80	94	95	96	105	107	79	87	97	115	120	52	58	58	42	34
R 8	85	110	113	110	99	95	106	123	124	120	118	65	68	66	58	55
R 8	90	145	131	113	81	68	124	126	138	139	140	104	96	96	93	91
R 8	100	132	132	132	132	132	154	154	154	154	154	75	75	75	75	75
R 8	120	183	183	183	183	183	79	79	79	79	79	211	211	211	211	211
R 8	140	125	125	125	125	125	72	72	72	72	72	146	146	146	146	146
R 8	160	90	90	90	90	90	65	65	65	65	65	105	105	105	105	105
R 8	180	71	71	71	71	71	58	58	58	58	58	81	81	81	81	81
R 8	200	61	61	61	61	61	52	52	52	52	52	69	69	69	69	69
R 9	25	21	19	17	25	27	23	20	17	22	24	14	15	13	15	16
R 9	30	24	24	23	32	35	23	19	15	25	26	15	17	15	17	17
R 9	35	28	34	34	40	43	28	25	20	35	37	16	21	21	24	26
R 9	40	31	43	46	52	55	32	33	31	37	39	19	19	26	32	34
R 9	45	34	52	60	66	71	35	39	40	46	48	19	20	25	29	31
R 9	50	38	63	74	81	86	36	51	55	62	65	21	26	25	27	28
R 9	55	43	69	86	93	95	39	58	69	77	86	19	26	25	24	24
R 9	60	50	78	99	109	115	42	70	81	85	90	25	32	29	35	34
R 9	65	60	88	113	124	137	53	85	104	104	107	31	33	31	40	41
R 9	70	71	90	117	151	160	69	99	122	129	141	43	40	35	35	34
R 9	75	77	91	116	163	174	88	107	131	167	177	49	54	49	40	35
R 9	80	92	92	109	152	163	82	99	126	178	188	52	62	62	52	47
R 9	85	109	106	108	128	135	105	115	133	171	184	66	70	70	73	73
R 9	90	144	127	108	93	88	124	129	140	159	165	107	113	112	108	107
R 9	100	132	132	132	132	132	154	154	154	154	154	75	75	75	75	75
R 9	120	183	183	183	183	183	79	79	79	79	79	211	211	211	211	211
R 9	140	125	125	125	125	125	72	72	72	72	72	146	146	146	146	146
R 9	160	90	90	90	90	90	65	65	65	65	65	105	105	105	105	105
R 9	180	71	71	71	71	71	58	58	58	58	58	81	81	81	81	81
R 9	200	61	61	61	61	61	52	52	52	52	52	69	69	69	69	69
R10	25	15	28	32	39	41	17	27	23	46	51	14	17	17	20	21
R10	30	19	33	42	43	43	18	29	30	36	37	15	20	21	21	21
R10	35	26	42	55	56	56	21	33	40	36	34	16	21	26	30	35
R10	40	31	52	69	76	81	28	39	53	50	52	18	24	31	40	44
R10	45	35	65	84	100	107	35	47	63	66	70	18	29	34	43	47
R10	50	39	83	100	123	133	36	53	80	92	99	19	38	30	41	45
R10	55	44	104	114	143	155	41	76	95	117	129	19	36	30	38	38
R10	60	50	120	128	165	178	44	129	111	132	147	25	39	34	45	45
R10	65	61	110	144	188	204	53	119	133	160	175	32	27	31	46	49
R10	70	72	106	148	209	228	71	120	153	189	209	43	35	35	42	42
R10	75	79	102	144	218	233	90	123	165	233	255	50	54	50	47	45
R10	80	92	90	124	198	213	84	116	157	238	246	53	65	66	62	58
R10	85	108	94	104	162	181	103	104	146	224	243	66	72	75	86	86
R10	90	143	122	102	113	124	125	133	143	184	197	110	133	132	126	123
R10	100	132	132	132	132	132	154	154	154	154	154	75	75	75	75	75
R10	120	183	183	183	183	183	79	79	79	79	79	211	211	211	211	211
R10	140	125	125	125	125	125	72	72	72	72	72	146	146	146	146	146
R10	160	90	90	90	90	90	65	65	65	65	65	105	105	105	105	105
R10	180	71	71	71	71	71	58	58	58	58	58	81	81	81	81	81
R10	200	61	61	61	61	61	52	52	52	52	52	69	69	69	69	69
R11	25	16	36	24	54	60	17	16	19	43	49	15	26	18	28	30
R11	30	20	55	34	65	71	19	34	25	56	64	16	28	19	30	33

R11	35	28	75	44	77	84	24	45	38	66	73	18	38	26	40	42
R11	40	33	97	53	98	107	30	72	45	75	83	18	41	31	52	56
R11	45	37	122	66	123	134	36	109	54	97	108	19	33	35	52	56
R11	50	40	124	80	146	160	39	129	65	117	129	20	24	31	48	52
R11	55	46	117	93	166	181	40	118	77	146	161	19	20	35	41	41
R11	60	52	104	108	179	194	48	116	86	164	178	24	23	37	43	44
R11	65	58	98	125	189	205	55	108	120	188	203	32	27	41	46	48
R11	70	70	94	127	190	209	69	108	139	200	215	43	39	45	47	49
R11	75	77	89	121	181	200	88	110	145	209	222	51	61	65	61	60
R11	80	92	92	114	158	169	82	104	139	204	221	52	63	71	80	83
R11	85	109	105	111	130	134	102	100	130	185	199	66	71	72	85	90
R11	90	145	129	112	98	92	128	151	153	153	154	108	121	122	115	113
R11	100	132	132	132	132	132	154	154	154	154	154	75	75	75	75	75
R11	120	183	183	183	183	183	79	79	79	79	79	211	211	211	211	211
R11	140	125	125	125	125	125	72	72	72	72	72	146	146	146	146	146
R11	160	90	90	90	90	90	65	65	65	65	65	105	105	105	105	105
R11	180	71	71	71	71	71	58	58	58	58	58	81	81	81	81	81
R11	200	61	61	61	61	61	52	52	52	52	52	69	69	69	69	69
R12	25	21	18	45	34	30	21	22	31	31	32	16	17	22	33	35
R12	30	24	24	57	55	53	24	21	51	40	36	18	21	24	39	42
R12	35	31	33	62	71	73	29	29	64	60	61	19	24	29	52	58
R12	40	36	43	67	99	105	35	40	65	64	65	19	29	38	58	63
R12	45	39	52	79	129	138	39	49	73	98	104	20	29	41	52	54
R12	50	42	61	89	153	165	41	49	82	127	137	21	24	35	46	48
R12	55	47	69	97	168	182	44	64	92	161	173	18	27	38	48	49
R12	60	51	76	107	175	189	50	73	94	175	188	23	36	39	50	53
R12	65	57	80	114	171	186	53	90	121	187	203	31	39	47	51	54
R12	70	69	79	111	161	176	68	93	131	189	203	44	45	49	53	55
R12	75	76	78	103	141	152	86	97	129	182	195	52	67	73	70	69
R12	80	94	93	106	118	121	80	95	123	167	179	52	61	75	92	97
R12	85	110	112	114	104	100	102	96	117	147	156	65	70	70	84	87
R12	90	146	133	118	88	72	130	163	159	127	114	106	111	114	107	105
R12	100	132	132	132	132	132	154	154	154	154	154	75	75	75	75	75
R12	120	183	183	183	183	183	79	79	79	79	79	211	211	211	211	211
R12	140	125	125	125	125	125	72	72	72	72	72	146	146	146	146	146
R12	160	90	90	90	90	90	65	65	65	65	65	105	105	105	105	105
R12	180	71	71	71	71	71	58	58	58	58	58	81	81	81	81	81
R12	200	61	61	61	61	61	52	52	52	52	52	69	69	69	69	69
R13	25	20	38	46	77	95	22	30	35	58	77	15	19	30	43	98
R13	30	24	46	63	104	126	21	39	40	74	92	17	24	38	53	104
R13	35	33	56	90	136	159	28	45	57	92	113	21	26	49	62	110
R13	40	40	67	118	177	202	34	57	82	120	139	21	28	71	85	114
R13	45	46	76	145	220	250	41	67	111	161	183	23	27	50	70	122
R13	50	54	88	167	255	289	49	78	138	209	236	22	26	41	60	75
R13	55	59	96	184	282	321	56	86	162	244	277	20	28	39	56	63
R13	60	63	104	199	309	353	66	102	183	272	306	29	33	39	58	92
R13	65	65	104	209	331	386	61	108	208	304	342	35	35	44	50	77
R13	70	77	102	203	349	416	74	116	226	342	391	46	44	54	44	67
R13	75	86	100	182	341	422	94	120	227	377	441	52	62	80	65	59
R13	80	102	102	152	290	377	90	111	212	385	469	54	65	106	116	94
R13	85	121	116	135	195	281	112	118	181	332	423	68	74	128	164	171
R13	90	158	140	173	134	194	135	149	180	219	298	109	117	165	185	189
R13	100	192	192	192	192	192	224	224	224	224	224	97	97	97	97	97
R13	120	183	183	183	183	183	79	79	79	79	79	211	211	211	211	211
R13	140	125	125	125	125	125	72	72	72	72	72	146	146	146	146	146
R13	160	90	90	90	90	90	65	65	65	65	65	105	105	105	105	105
R13	180	71	71	71	71	71	58	58	58	58	58	81	81	81	81	81

```
R13 200    61  61  61  61  61    52  52  52  52  52    69  69  69  69  69

***RANDOM WINDS, CODE RW***
RW 1    0    2   5   7   6   6     3   5   6   5   5
RW 1    5    6  10  13  11  11     4   9  12  11  11
RW 1   10    8  15  15  12  11     7  14  15  12  11
RW 1   15    9  11  11  10  10     7  10  10  11  11
RW 1   20   10   8  11  12  13     5   5   9  13  14
RW 1   25   12   9  20  21  21     2   4  11  17  18
RW 1   30   15  13  25  27  27     4   6  15  20  21
RW 1   35   17  18  29  29  28     7  10  17  27  29
RW 1   40   18  22  36  30  27     6  11  20  33  37
RW 1   45   24  27  46  33  27    11  14  22  40  45
RW 1   50   23  29  50  36  29    13  16  28  45  50
RW 1   55   21  29  44  38  35    16  16  25  42  46
RW 1   60   21  29  37  38  38    16  19  26  39  43
RW 1   65   21  38  45  37  35    21  25  38  47  49
RW 1   70   30  42  44  34  30    17  22  32  47  50
RW 1   75   35  38  45  51  52    32  43  46  42  40
RW 1   80   31  33  45  61  66    37  47  62  64  65
RW 1   85   41  33  46  73  80    56  61  76  81  82
RW 1   90   76  54  63  81  87    79 118 121 115 112
RW 1  100   74  59  58  53  53    75 102  87  53  53
RW 1  120   72  64  62  52  52    72  85  52  52  52
RW 1  140   69  69  69  69  69    69  69  69  69  69
RW 1  160   87  87  87  87  87    87  87  87  87  87
RW 1  180   87  87  87  87  87    87  87  87  87  87
RW 1  200   87  87  87  87  87    87  87  87  87  87
RW 2    0    2   5   6   6   6     2   6   5   6   6
RW 2    5    6  10  12  11  10     4   9  12  11  11
RW 2   10    8  16  15  12  11     7  15  14  12  12
RW 2   15    9  12  10  11  11     7  11   9  11  12
RW 2   20   10   8  10  13  14     4   5   7  13  14
RW 2   25   12   9  14  16  17     3   3  12  12  13
RW 2   30   14  12  17  20  21     4   6  15  21  23
RW 2   35   16  19  22  21  20     7   8  17  25  27
RW 2   40   19  23  29  25  24     6  10  19  28  31
RW 2   45   24  26  30  31  30    10  13  21  33  36
RW 2   50   22  27  38  33  31    11  13  24  33  36
RW 2   55   20  27  39  39  38    16  15  21  31  34
RW 2   60   21  27  35  35  34    16  17  23  30  32
RW 2   65   20  37  44  36  34    21  24  36  44  47
RW 2   70   30  41  43  34  30    17  22  31  44  48
RW 2   75   35  38  45  49  50    32  41  45  42  41
RW 2   80   31  33  44  59  63    37  47  61  63  64
RW 2   85   41  35  46  57  60    56  61  74  60  61
RW 2   90   76  54  62  55  57    78 113 118  57  56
RW 2  100   63  44  57  53  53    63  44  57  53  53
RW 2  120   50  57  52  52  52    50  57  52  52  52
RW 2  140   69  69  69  69  69    69  69  69  69  69
RW 2  160   87  87  87  87  87    87  87  87  87  87
RW 2  180   87  87  87  87  87    87  87  87  87  87
RW 2  200   87  87  87  87  87    87  87  87  87  87
RW 3    0    2   5   6   5   5     3   5   6   5   5
RW 3    5    6   9  11  11  11     4   9  11  11  11
RW 3   10    8  15  14  11  10     7  14  14  11  10
RW 3   15    9  12   9   9   9     7  10   9  10  10
```

RW	3	20	10	7	9	11	11	4	5	7	10	11
RW	3	25	13	7	13	14	14	3	3	8	19	21
RW	3	30	13	11	13	15	15	4	4	8	19	22
RW	3	35	16	18	20	20	20	7	8	12	20	22
RW	3	40	19	19	26	24	23	6	8	13	21	24
RW	3	45	24	22	31	30	29	9	10	14	23	25
RW	3	50	21	22	32	29	28	10	11	17	23	25
RW	3	55	20	23	32	32	32	16	14	19	23	24
RW	3	60	22	26	31	32	32	15	16	20	25	27
RW	3	65	20	36	40	34	31	20	22	30	36	38
RW	3	70	29	38	40	32	29	17	21	28	38	40
RW	3	75	35	39	43	44	44	32	37	41	42	42
RW	3	80	31	34	41	52	55	37	47	59	60	61
RW	3	85	42	39	46	52	54	56	61	71	58	58
RW	3	90	76	56	56	53	54	76	100	109	55	56
RW	3	100	73	60	54	53	53	73	90	81	53	53
RW	3	120	71	65	52	52	52	71	79	52	52	52
RW	3	140	69	69	69	69	69	69	69	69	69	69
RW	3	160	87	87	87	87	87	87	87	87	87	87
RW	3	180	87	87	87	87	87	87	87	87	87	87
RW	3	200	87	87	87	87	87	87	87	87	87	87
RW	4	0	2	4	5	5	5	2	5	6	5	5
RW	4	5	5	8	11	10	10	4	8	12	11	10
RW	4	10	7	14	15	11	9	6	13	16	11	9
RW	4	15	7	11	9	9	10	6	10	9	8	8
RW	4	20	9	7	8	11	11	4	5	6	8	9
RW	4	25	12	5	5	7	8	3	3	3	5	5
RW	4	30	12	8	8	9	10	4	4	4	6	7
RW	4	35	17	14	14	11	11	8	6	8	8	9
RW	4	40	17	15	16	13	12	5	7	9	11	12
RW	4	45	23	19	20	16	15	9	8	9	10	10
RW	4	50	20	20	22	18	17	11	8	10	11	12
RW	4	55	21	22	25	21	20	16	12	15	14	14
RW	4	60	21	26	29	25	23	15	13	15	16	16
RW	4	65	20	34	35	29	27	20	19	20	21	21
RW	4	70	28	35	35	30	28	17	19	24	26	26
RW	4	75	36	40	41	35	33	31	31	36	42	44
RW	4	80	31	34	38	41	42	37	47	54	56	57
RW	4	85	43	45	46	45	46	56	62	65	55	56
RW	4	90	77	59	48	49	49	72	77	95	54	54
RW	4	100	74	65	50	53	53	71	74	74	53	53
RW	4	120	72	71	52	52	52	70	71	52	52	52
RW	4	140	69	69	69	69	69	69	69	69	69	69
RW	4	160	87	87	87	87	87	87	87	87	87	87
RW	4	180	87	87	87	87	87	87	87	87	87	87
RW	4	200	87	87	87	87	87	87	87	87	87	87
RW	5	0	2	4	5	5	5	2	4	6	5	5
RW	5	5	5	7	11	10	9	4	7	11	10	9
RW	5	10	6	12	15	11	9	5	11	15	11	9
RW	5	15	8	10	9	6	5	6	10	9	6	5
RW	5	20	7	6	7	5	4	4	5	5	5	5
RW	5	25	12	4	3	3	3	3	2	2	3	4
RW	5	30	14	8	6	5	4	8	3	3	3	3
RW	5	35	15	10	10	8	8	9	6	7	5	5
RW	5	40	16	11	10	11	11	6	6	7	7	7
RW	5	45	22	15	14	18	19	19	8	8	8	8
RW	5	50	20	13	14	20	22	21	8	8	10	11

RW	5	55	19	15	16	28	31	23	10	12	11	11
RW	5	60	22	19	20	17	17	29	14	15	15	15
RW	5	65	18	28	29	23	21	20	20	20	18	18
RW	5	70	28	30	30	25	23	18	25	26	21	19
RW	5	75	35	39	41	35	33	31	32	42	45	46
RW	5	80	31	38	43	43	43	37	48	52	49	48
RW	5	85	44	52	55	46	46	56	61	61	50	50
RW	5	90	79	82	72	50	50	73	86	98	52	51
RW	5	100	76	78	62	53	53	72	80	75	53	53
RW	5	120	72	73	52	52	52	70	75	52	52	52
RW	5	140	69	69	69	69	69	69	69	69	69	69
RW	5	160	87	87	87	87	87	87	87	87	87	87
RW	5	180	87	87	87	87	87	87	87	87	87	87
RW	5	200	87	87	87	87	87	87	87	87	87	87
RW	6	0	2	4	5	4	4	2	4	5	5	4
RW	6	5	5	8	11	11	11	3	6	9	9	9
RW	6	10	6	11	14	12	11	5	9	14	12	11
RW	6	15	7	10	9	6	5	6	8	8	6	6
RW	6	20	7	6	6	5	4	4	5	5	4	4
RW	6	25	11	5	3	3	3	3	8	2	2	2
RW	6	30	12	7	4	3	3	3	8	2	2	2
RW	6	35	13	8	7	5	5	7	8	6	4	4
RW	6	40	17	9	8	6	6	6	8	6	5	4
RW	6	45	23	13	10	8	8	10	9	8	5	4
RW	6	50	20	13	41	10	10	10	10	10	7	5
RW	6	55	20	15	13	15	16	15	13	10	8	8
RW	6	60	20	16	15	15	16	15	13	17	13	14
RW	6	65	17	22	23	18	16	20	20	20	16	15
RW	6	70	27	26	26	21	20	18	28	27	17	12
RW	6	75	35	38	41	35	33	31	32	46	47	48
RW	6	80	32	41	47	44	43	37	49	51	43	40
RW	6	85	45	57	61	47	46	56	61	58	46	44
RW	6	90	81	95	86	50	50	75	92	100	50	49
RW	6	100	77	86	69	53	53	73	85	76	53	53
RW	6	120	73	77	52	52	52	71	79	52	52	52
RW	6	140	69	69	69	69	69	69	69	69	69	69
RW	6	160	87	87	87	87	87	87	87	87	87	87
RW	6	180	87	87	87	87	87	87	87	87	87	87
RW	6	200	87	87	87	87	87	87	87	87	87	87
RW	7	0	2	3	4	4	4	2	3	5	4	4
RW	7	5	5	6	8	9	9	4	5	8	8	8
RW	7	10	6	8	14	12	11	4	7	14	12	11
RW	7	15	7	8	9	7	5	5	7	9	6	5
RW	7	20	7	5	6	4	4	4	4	5	4	3
RW	7	25	11	3	2	2	2	4	3	2	2	2
RW	7	30	12	4	3	2	2	4	3	2	2	2
RW	7	35	12	6	5	5	5	7	5	4	3	2
RW	7	40	14	7	8	6	6	7	6	6	4	3
RW	7	45	20	11	10	5	4	9	8	8	4	4
RW	7	50	24	9	9	6	4	11	8	7	5	5
RW	7	55	20	12	12	9	7	14	11	10	8	7
RW	7	60	25	17	12	8	7	19	15	18	13	11
RW	7	65	17	20	20	15	13	20	20	20	16	14
RW	7	70	27	24	24	20	18	18	29	27	15	8
RW	7	75	35	38	41	35	33	31	33	47	48	48
RW	7	80	32	42	48	45	44	37	49	50	41	37
RW	7	85	45	59	63	55	53	56	61	57	46	42

RW	7	90	82	100	91	76	70	75	94	101	80	72
RW	7	100	78	84	72	53	53	73	81	77	53	53
RW	7	120	73	67	52	52	52	71	67	52	52	52
RW	7	140	69	69	69	69	69	69	69	69	69	69
RW	7	160	87	87	87	87	87	87	87	87	87	87
RW	7	180	87	87	87	87	87	87	87	87	87	87
RW	7	200	87	87	87	87	87	87	87	87	87	87
RW	8	0	2	3	5	5	5	2	3	4	4	4
RW	8	5	5	5	8	9	9	4	5	9	8	8
RW	8	10	6	8	13	12	11	5	8	14	12	11
RW	8	15	7	8	10	7	6	5	7	10	7	5
RW	8	20	7	5	6	5	4	4	4	5	4	4
RW	8	25	10	3	3	3	3	3	2	2	2	2
RW	8	30	13	4	4	5	5	5	3	2	2	2
RW	8	35	14	7	6	6	7	7	6	5	3	3
RW	8	40	17	10	8	8	8	6	6	6	4	3
RW	8	45	24	13	11	8	7	9	9	8	5	4
RW	8	50	21	13	11	9	8	10	10	8	6	6
RW	8	55	17	17	13	12	11	13	12	11	8	7
RW	8	60	18	19	19	15	14	16	14	17	14	14
RW	8	65	17	22	23	18	16	20	20	20	16	15
RW	8	70	27	26	26	21	20	18	28	27	17	12
RW	8	75	35	38	41	35	33	31	32	46	47	48
RW	8	80	32	41	47	44	43	37	49	51	43	40
RW	8	85	45	57	61	47	46	56	61	58	46	44
RW	8	90	81	95	86	50	50	75	92	100	50	49
RW	8	100	100	87	69	53	53	100	85	76	53	53
RW	8	120	90	78	52	52	52	90	77	52	52	52
RW	8	140	69	69	69	69	69	69	69	69	69	69
RW	8	160	87	87	87	87	87	87	87	87	87	87
RW	8	180	87	87	87	87	87	87	87	87	87	87
RW	8	200	87	87	87	87	87	87	87	87	87	87
RW	9	0	2	4	5	6	6	2	3	5	5	5
RW	9	5	4	6	10	9	9	3	6	10	9	9
RW	9	10	5	10	15	12	10	4	9	16	12	10
RW	9	15	7	9	10	7	5	5	8	10	7	6
RW	9	20	8	6	7	5	5	4	4	6	5	5
RW	9	25	11	4	4	5	6	3	3	3	3	3
RW	9	30	13	6	5	7	8	3	5	3	5	5
RW	9	35	14	10	10	9	10	6	6	7	6	7
RW	9	40	19	12	11	12	13	5	7	7	8	9
RW	9	45	22	15	15	13	13	8	8	9	7	7
RW	9	50	16	15	15	15	15	8	8	9	9	9
RW	9	55	16	16	18	18	18	13	12	12	9	8
RW	9	60	18	20	22	21	21	14	13	16	17	17
RW	9	65	18	28	29	23	21	20	20	20	18	18
RW	9	70	28	30	30	25	23	18	25	26	21	19
RW	9	75	35	39	41	35	33	31	32	42	45	46
RW	9	80	31	38	43	43	43	37	48	52	49	48
RW	9	85	44	52	55	46	46	56	61	61	56	50
RW	9	90	79	82	72	50	50	73	86	98	51	51
RW	9	100	71	67	62	53	53	71	55	56	53	53
RW	9	120	64	51	52	52	52	64	51	52	52	52
RW	9	140	69	69	69	69	69	69	69	69	69	69
RW	9	160	87	87	87	87	87	87	87	87	87	87
RW	9	180	87	87	87	87	87	87	87	87	87	87
RW	9	200	87	87	87	87	87	87	87	87	87	87

RW10	0	3	4	6	5	5	2	4	6	5	5
RW10	5	5	7	11	10	9	4	7	12	10	9
RW10	10	6	12	15	13	13	5	11	16	12	10
RW10	15	7	11	10	9	8	5	9	11	8	7
RW10	20	8	7	7	8	8	4	5	7	8	8
RW10	25	12	6	7	9	9	4	3	6	9	9
RW10	30	15	8	9	9	9	4	4	7	11	12
RW10	35	16	15	14	12	11	6	6	9	13	15
RW10	40	17	19	16	13	12	6	6	11	14	15
RW10	45	19	22	21	15	13	8	8	12	14	15
RW10	50	16	22	23	19	16	9	9	12	16	17
RW10	55	17	22	26	23	22	13	13	16	18	18
RW10	60	21	26	29	29	27	16	13	16	22	24
RW10	65	20	34	35	29	27	20	19	20	21	21
RW10	70	28	35	35	30	28	17	19	24	26	26
RW10	75	36	40	41	35	33	31	31	36	42	44
RW10	80	31	34	38	41	42	37	47	54	56	57
RW10	85	43	45	46	45	46	56	62	65	55	56
RW10	90	77	59	48	49	49	72	77	95	54	54
RW10	100	74	60	50	53	53	71	69	50	53	53
RW10	120	72	60	52	52	52	70	60	52	52	52
RW10	140	69	69	69	69	69	69	69	69	69	69
RW10	160	87	87	87	87	87	87	87	87	87	87
RW10	180	87	87	87	87	87	87	87	87	87	87
RW10	200	87	87	87	87	87	87	87	87	87	87
RW11	0	3	5	6	6	6	2	5	6	6	5
RW11	5	5	8	11	11	10	4	8	12	11	11
RW11	10	7	13	15	12	10	6	12	16	12	11
RW11	15	8	11	10	8	8	6	10	10	9	9
RW11	20	9	7	8	9	9	4	5	7	10	10
RW11	25	11	7	8	11	12	3	4	7	13	15
RW11	30	16	12	12	12	11	4	6	9	17	18
RW11	35	15	26	18	15	15	7	8	12	19	21
RW11	40	16	18	19	20	21	5	9	13	19	21
RW11	45	22	20	23	25	26	9	12	14	20	22
RW11	50	20	22	27	25	24	10	13	18	24	26
RW11	55	21	23	29	32	32	14	15	20	23	24
RW11	60	21	24	31	32	31	15	17	21	26	27
RW11	65	20	36	40	34	31	20	22	30	36	38
RW11	70	29	38	40	32	29	17	21	28	38	40
RW11	75	35	39	43	44	44	32	37	41	42	42
RW11	80	31	34	41	52	55	37	47	59	60	61
RW11	85	42	39	46	52	54	56	61	71	58	58
RW11	90	76	56	56	53	54	76	100	109	55	56
RW11	100	74	60	54	53	53	74	90	81	53	53
RW11	120	71	65	52	52	52	71	79	52	52	52
RW11	140	69	69	69	69	69	69	69	69	69	69
RW11	160	87	87	87	87	87	87	87	87	87	87
RW11	180	87	87	87	87	87	87	87	87	87	87
RW11	200	87	87	87	87	87	87	78	78	78	78
RW12	0	2	5	7	6	6	3	5	6	6	6
RW12	5	5	9	12	11	11	4	9	12	11	11
RW12	10	8	15	15	11	10	7	15	15	12	10
RW12	15	9	12	10	9	9	7	12	10	10	10
RW12	20	10	8	10	10	11	4	6	9	11	12
RW12	25	10	34	14	14	13	2	34	10	12	13
RW12	30	17	13	19	18	18	4	6	14	19	21

```
RW12  35   17  20  22  22  23    8   9  18  23  25
RW12  40   20  24  23  27  28    7  13  22  28  30
RW12  45   27  29  27  30  30   11  14  23  29  31
RW12  50   25  31  31  32  31   12  15  25  30  30
RW12  55   23  32  33  35  35   17  17  23  31  33
RW12  60   23  29  34  35  35   18  21  23  30  32
RW12  65   20  37  44  36  34   21  24  36  44  47
RW12  70   30  41  43  34  30   17  22  31  44  48
RW12  75   35  38  45  49  50   32  41  45  42  41
RW12  80   31  33  44  59  63   37  47  61  63  64
RW12  85   41  35  46  57  60   56  61  74  60  60
RW12  90   76  54  62  55  56   78 113 118  56  57
RW12 100   74  59  57  53  53   75  99  85  53  53
RW12 120   72  64  52  52  52   72  84  52  52  52
RW12 140   69  69  69  69  69   69  69  69  69  69
RW12 160   87  87  87  87  87   87  87  87  87  87
RW12 180   87  87  87  87  87   87  87  87  87  87
RW12 200   87  87  87  87  87   87  87  87  87  87
RW13   0    3   5   6   5   5    3   5   6   5   5
RW13   5    6  10  11  10  10    4   8  11  10  10
RW13  10    8  18  15  12  11    6  12  15  12  11
RW13  15   10  16  10   9   9    6  10  10   9   9
RW13  20   10  11  10  11  11    4   5   7   9  10
RW13  25   11  11  10  11  11    3  10   7  10  11
RW13  30   14   9  12  13  13    4   5   9  13  14
RW13  35   15  15  16  16  15    7   7  11  16  17
RW13  40   17  17  20  18  18    6   8  13  18  20
RW13  45   23  20  24  22  21   11  10  14  20  22
RW13  50   21  21  29  23  22   12  11  16  22  24
RW13  55   20  22  27  27  27   16  13  17  22  23
RW13  60   21  24  27  27  26   17  16  19  23  25
RW13  65   19  32  35  29  27   20  21  27  30  31
RW13  70   28  34  35  29  26   17  24  28  32  33
RW13  75   35  39  42  41  40   31  35  43  44  44
RW13  80   31  36  43  49  51   37  48  56  55  54
RW13  85   43  47  52  52  54   56  61  66  56  56
RW13  90   78  73  68  57  57   75  97 106  63  62
RW13 100   76  69  60  53  53   75  81  74  53  53
RW13 120   72  76  52  52  52   71  72  52  52  52
RW13 140   69  69  69  69  69   69  69  69  69  69
RW13 160   87  87  87  87  87   87  87  87  87  87
RW13 180   87  87  87  87  87   87  87  87  87  87
RW13 200   87  87  87  87  87   87  87  87  87  87
----END OF FILE WRITTEN----

***QUASI-BIENNIAL OSCILLATIONS, CODE QP, QD, QT, QU, OR QV***
QP 15   2  110   1  440   2  415   2  380   2  375
QP 20   5  260   3  490   3  435   3  375   3  360
QP 25   6  394   4  523   5  470   6  420   6  405
QP 30   6  580   4  642  11  500  16  340  18  280
QP 35   8  701   6  613  19  480  29  330  33  300
QP 40   9  745  10  653  29  490  46  310  51  245
QP 45   9  819   7  767  30  605  50  310  55  220
QP 50   8  837   6   66  29  620  46  305  51  200
QP 55   7  808  11  127  27  650  44  265  49  175
QP 60   7  737  23  143  26  660  33  280  35  190
QP 65   6  680  25  205  25  690  25  265  25  170
```

QP	70	5	610	23	255	21	710	16	250	13	160
QP	75	4	550	15	300	14	730	10	240	8	150
QP	80	2	485	8	350	7	755	6	230	5	140
QP	85	1	420	3	400	3	780	2	220	1	130
QP	90	0	360	0	450	0	805	0	210	0	120
QD	15	3	711	1	465	1	610	1	785	1	850
QD	20	5	130	4	530	2	575	2	620	2	640
QD	25	8	277	5	587	4	545	3	495	2	475
QD	30	12	400	2	658	8	500	10	335	10	290
QD	35	8	596	4	489	14	425	20	350	22	325
QD	40	9	714	7	605	21	470	32	315	35	280
QD	45	11	767	11	700	31	525	46	335	51	280
QD	50	11	808	5	822	29	640	52	290	58	210
QD	55	8	847	6	64	33	620	54	270	61	205
QD	60	13	792	18	77	40	630	52	270	56	205
QD	65	10	741	13	122	32	645	44	260	47	190
QD	70	7	690	9	140	25	660	34	260	38	190
QD	75	4	650	6	152	16	660	22	260	23	190
QD	80	2	600	3	162	8	660	11	260	12	190
QD	85	1	555	1	170	3	660	4	260	4	190
QD	90	0	510	0	170	0	660	0	260	0	190
QT	15	2	467	1	750	3	351	4	120	4	0
QT	20	4	568	2	100	5	880	7	180	8	75
QT	25	6	604	2	285	8	750	11	225	12	150
QT	30	12	770	2	630	10	510	13	280	14	240
QT	35	6	868	5	704	15	525	19	300	20	270
QT	40	2	43	4	731	16	548	23	300	25	260
QT	45	9	70	6	192	8	700	10	250	11	210
QT	50	3	287	4	222	3	600	1	860	0	770
QT	55	3	566	6	213	6	540	7	700	7	630
QT	60	6	403	10	254	10	450	11	450	11	350
QT	65	5	518	8	270	9	440	10	370	10	270
QT	70	3	633	6	285	6	400	7	190	7	90
QT	75	3	685	4	297	4	365	5	150	5	30
QT	80	2	800	3	310	3	340	3	70	3	840
QT	85	1	13	1	322	1	300	2	830	2	740
QT	90	0	97	0	332	0	270	0	730	0	640
QU	15	70	180	1	45	8	165	20	280	30	305
QU	20	130	280	3	140	20	195	45	260	60	280
QU	25	163	382	4	192	35	230	62	265	75	285
QU	30	161	506	45	265	58	250	69	235	73	225
QU	35	125	761	64	350	55	295	51	245	50	220
QU	40	120	778	48	435	40	320	32	230	30	195
QU	45	117	820	9	533	18	320	28	135	30	70
QU	50	99	836	60	740	30	485	19	240	12	170
QU	55	66	235	62	720	50	485	38	275	30	210
QU	60	54	314	86	682	75	460	60	265	51	200
QU	65	42	420	75	720	65	490	50	270	40	200
QU	70	30	520	65	720	50	520	35	280	30	205
QU	75	23	620	50	720	35	550	25	285	20	210
QU	80	16	720	36	720	20	580	13	295	10	215
QU	85	9	820	20	720	10	615	5	305	5	220
QU	90	0	50	0	720	0	650	0	315	0	230
QV	15	2	450	1	718	5	791	7	835	7	15
QV	20	4	520	2	620	10	710	15	760	15	830
QV	25	6	602	3	510	15	600	22	675	24	700
QV	30	8	562	6	288	15	475	22	650	24	720

QV	35	5	587	16	382	22	485	27	585	29	630
QV	40	8	687	17	292	23	440	28	575	30	640
QV	45	1	96	11	209	19	325	25	430	27	475
QV	50	9	105	12	593	22	240	32	370	37	405
QV	55	19	431	4	651	9	165	14	285	17	320
QV	60	40	660	58	625	35	30	14	140	7	190
QV	65	30	769	45	480	29	0	12	150	5	135
QV	70	22	7	28	376	22	790	9	90	3	80
QV	75	14	285	17	279	15	710	6	20	2	25
QV	80	8	393	9	181	8	630	4	815	1	790
QV	85	3	586	3	84	4	550	2	750	1	635
QV	90	0	770	0	717	0	470	0	685	0	580

----END OF FILE WRITTEN----

REFERENCES

Buell, C E., (1970); "Statistical Relations in a Perfect Gas", J. Appl. Met., 9, 729-731.

Buell, C. E., (1972a); "Correlation Functions for Wind and Geopotential on Isobaric Surfaces", J. Appl. Met., 11, 51-59, February.

Buell, C. E., (1972b); "Adjustment of Some Atmospheric Statistics to Satisfy Physical Conditions", J. Appl. Met., 11, 1299-1304.

Cole, A. E., (1970); "Extreme Temperature, Pressure, and Density Between 30 and 80 Km", AFCRL-70-0462, August.

Graves, M. E., et. al., (1973); "Specification of Mesospheric Density, Pressure, and Temperature by Extrapolation", NASA CR-2223, March.

Groves, G. V., (1971); "Atmospheric Structure and Its Variations in the Region from 25 to 120 Km", AD-737 794, AFCRL-71-0410, Environmental Research Paper No. 368, July.

Groves, G. V., (1973); "Zonal Wind Quasi-Biennial Oscillations at 25-60 Km Altitude", 1962-1969, Quart. J. Roy. Met. Soc., 99.

Jacchia, L. G., (.970); "New Static Models of the Thermosphere and Exosphere with Empirical Temperature Profiles", Smithsonian Astrophysical Observatory, Special Report 313, May.

Jacchia, L. G., (1971); "Revised Static Models of the Thermosphere and Exosphere with Empirical Temperature Profiles", Smithsonian Astrophysical Observatory, Special Report 332, May.

Justus, C. G., and A. Woodrum, (1972); "Atmospheric Pressure, Density, Temperature, and Wind Variations Between 50 and 200 Km", NASA CR-2062, May.

Justus, C. G., and A. Woodrum, (1973); "Short and Long Period Atmospheric Variations Between 25 and 200 Km", NASA CR-2203, February.

Justus, C. G., Arthur Woodrum, and R. G. Roper, (1974a); "A Global Scale Engineering Atmospheric Model for Surface to Orbital Altitudes, 1: Technical Description", NASA-TM-X-64871.

Justus, C. G., Arthur Woodrum, and R. G. Roper, (1974b); "A Global Scale Engineering Atmospheric Model for Surface to Orbital Altitudes, 2: Users Manual and Programmers Manual", NASA-TM-X-64872.

NOAA, (1969a); "Weekly Synoptic Analyses, 5, 2, and 0.4 Millibar Surfaces for 1966", WB 9, Staff, Upper Air Branch, NOAA, NMC, January.

NOAA, (1969b); "Monthly Mean 100, 50, 30, and 10 Millibar Charts and Standard Deviation Maps, 1966-1967", WB 11, prepared by the Staff of the Upper Air Branch, NOAA, NMC, April.

NOAA, (1970); "Weekly Synoptic Analyses, 5, 2, and 0.4 Millibar Surfaces for 1967", WB 12, Staff, Upper Air Branch, NOAA, NMC, January.

NOAA, (1971); "Weekly Synoptic Analyses, 5, 2, and 0.4 Millibar Surfaces for 1968", NWS 14, Staff, Upper Air Branch, NOAA, NMC, May.

Oort, A. H., and E. M. Rasmusson, (1971); "Atmospheric Circulation Statistics", NOAA Professional Paper 5.

Smith, W. S., et. al., (1964-1974); "Temperature, Pressure, Density, and Wind Measurements in the Stratosphere and Mesosphere", NASA TR-R-211 (1964), TR-R-245 (1966), TR-R-263 (1967), TR-R-288 (1968), TR-R-316 (1969), TR-R-340 (1970), TR-R-360 (1971), TR-R-391 (1972), TR-R-416 (1974).

Spiegler, D. B., and Mary G. Fowler, (1972); "Four Dimensional World-Wide Atmospheric Model - Surface to 25 Km Altitude", NASA CR-2082, July.

Theon, J. S., et. al., (1972); "The Mean Observed Meteorological Structure and Circulation of the Stratosphere and Mesosphere", NASA TR-R-375, March.

Youngblood, W. W., (1972); "Extreme Values of Temperature and Density in the Altitude Range of 25 to 90 Kilometers", Northrop Services, Inc., M-241-1106, NASA Contract NAS8-21810, June.