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**NOAA Technical Memorandum ERL PMEL-97**

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**TEMPERATURE CALIBRATION AND CORRECTION REPORT  
FOR PMEL TRACE GAS CRUISES 1986-1989**

**Paulette P. Murphy  
Cathy Cosca  
Daniel C. Lee  
Richard A. Feely**

**Pacific Marine Environmental Laboratory  
Seattle, Washington  
February 1993**

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NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION

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**UNITED STATES  
DEPARTMENT OF COMMERCE**

**NATIONAL OCEANIC AND  
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# Temperature Calibration and Correction Report for PMEL Trace Gas Cruises 1986–1989

Paulette P. Murphy, Cathy Cosca, Daniel C. Lee, and Richard A. Feely

**ABSTRACT.** Present methods for evaluating the *in situ* concentrations of gases in surface seawater require accurate temperature measurements. Temperature data from each of 5 PMEL cruises over the years 1986 to 1989 are discussed independently to describe the different types of data available and the methods of analysis. The seawater warming between the inlet and the equilibrator is shown for each cruise as calculated by a “point-by-point” method and a “regression” method, and both methods are discussed. The data are given in an accompanying diskette in ASCII format.

## 1. INTRODUCTION

Increases in the atmospheric concentrations of carbon dioxide ( $\text{CO}_2$ ), methane ( $\text{CH}_4$ ), nitrous oxide ( $\text{N}_2\text{O}$ ), chlorofluorocarbons (CFCs), and other anthropogenic “greenhouse gases” have stimulated increased interest in the cycling and fates of these chemicals. Since the rates of increase in atmospheric concentrations are not commensurate with the rates of anthropogenic production, additional sinks of these compounds from the atmosphere are postulated. The world oceans have been suggested as a possible major sink for some of these gases and measurements have been made in an attempt to quantify the role of the ocean in absorbing some of the “greenhouse gases.”

The Pacific Marine Environmental Laboratory (PMEL) has made measurements on 13 legs of 5 expeditions in the Pacific and Indian Oceans (Fig. 1, Table 1) from 1986 to 1989 to determine the concentrations of  $\text{CH}_4$ , CO, and  $\text{CO}_2$  in the atmosphere and in surface seawater. Gas concentrations are the principal data required for assessment of the equilibrium concentration of gases in surface seawater, but temperature data are also required. The concentrations of  $\text{CH}_4$ , CO, and  $\text{CO}_2$  in dry air are reported separately by Kelly *et al.* (in preparation), and final concentrations of  $\text{CO}_2$  in units of  $\mu\text{atm}$  are reported by Murphy *et al.* (in preparation). The purpose of this report is to summarize for each PMEL cruise the type of temperature data collected, to provide hourly temperature data, and to identify any known problems with the data. The measurements presented in this report are sea surface temperature ( $T_{ss}$ ) and the temperature of water in the seawater-air equilibrator ( $T_{eq}$ ). All temperatures are reported in degrees Celsius. Time is reported as Greenwich Mean Time (GMT).

## 2. METHODS

Sea surface temperature was measured on these cruises using mercury thermometers in water collected with buckets, conductivity-temperature-depth (CTD) analysis at the hydrocast stations, and from thermistors placed in the seachest near the water intake line. Equilibrator temperatures were collected from thermometers and thermistors inserted in the equilibrator. Not all of the above-mentioned data were collected for each cruise (Table 1), and some differences

TABLE 1. Temperature monitoring record

Imports	$T_{ss}$			$T_{eq}$		
	Bucket	Thermistor	CTD	Hg Therm.	Hg Therm.	Thermistor
RITS/CO <sub>2</sub> 86 EPOCS 86	Balboa-Honolulu Honolulu-Dutch Harbor	X X	SC, ML SC, ML	PMEL PMEL	2-hr 2-hr	0 0
SAGA II	Hilo-Kamchatka Kamchatka-Wellington Wellington-Singapore	1-3-hr 1-3-hr 1-3-hr	0 0 0	Soviet, SIO Soviet Soviet	6-hr 6-hr 6-hr	0 0 X
TOGA 87 RITS CO <sub>2</sub> 87	Townsville-Kwajalein Kwajalein-Dutch Harbor Dutch Harbor-Seattle	X X X	SC, ML SC, ML SC, ML	PMEL PMEL PMEL	18-hr 18-hr 18-hr	0 PMEL X
RITS CO <sub>2</sub> 88 EPOCS 88	Dutch Harbor-Am. Samoa Am. Samoa-Honolulu	18-hr X	SC, ML SC, ML	PMEL PMEL	6-hr 6-hr	PMEL 0
RITS 89	Seattle-Easter Island Easter Island-Papeete Papeete-Seattle	6-hr 6-hr 6-hr	EL, ML EL, ML EL, ML	PMEL PMEL PMEL	6-hr 6-hr 6-hr	PMEL PMEL PMEL

X = Not used

0 = No data

SC = Strip chart record of thermosalinograph temperature

EL = Electronically logged thermosalinograph record

ML = Manually logged thermosalinograph temperature

PMEL = Provided by Pacific Marine Environmental Laboratory

SIO = Provided by Scripps Institution of Oceanography

in methodology exist. This section describes the general methodology and any differences are noted in the Data section.

## 2.1 Sea Surface Temperature

Monitoring of sea surface temperature by bucket collection was performed on most of the cruises. A bucket on a rope was lowered below the sea surface and a sample of seawater brought up to the deck. A thermometer or thermal probe was inserted, and the temperature was read and manually recorded. Frequency of monitoring was generally 2–4 times per day. Mercury thermometers used for measuring  $T_{ss}$  were calibrated by the Northwest Regional Calibration Center (NRCC) to an accuracy better than  $\pm 0.05^{\circ}\text{C}$  over the temperature range  $-1^{\circ}$  to  $35^{\circ}\text{C}$ . The thermal probe used in 1989 was calibrated to better than  $\pm 0.1^{\circ}\text{C}$  accuracy over the range  $0^{\circ}$  to  $35^{\circ}\text{C}$ . The precision in reading these devices is generally better than  $\pm 0.05^{\circ}\text{C}$ .

Temperature from the CTD system was available for all cruises at the hydrocast station locations, usually one or two per day. The CTD thermal sensors were calibrated to a very high accuracy (better than  $\pm 0.001^{\circ}\text{C}$ ).

For sea surface temperature, the CTD temperature at 5 decibars was chosen to be the most accurate or “true” temperature. This decision was based on the fact that CTD temperatures were available for every cruise, the accuracy of the CTD calibrations ( $\pm 0.001^{\circ}\text{C}$ ), and on the depth (approximately 5 meters) from which water was drawn to make the underway gas measurements.

Thermistors coupled to automatic data logging devices were available on all but the SAGA II cruise. In each case a thermistor had been permanently installed by ship personnel in the seachest. The seachest is a compartment located in the bow of the ship approximately 5 meters below the sea surface. Water is pumped from the seachest up to the equilibrator for gas analysis. The sea surface temperature data were logged either on a strip chart recorder or electronically. In the latter case, temperature was recorded at least every minute. Since removal of these thermistors for calibration in the laboratory was not possible, concurrent temperature measurements made by CTD were used to “calibrate” these thermistor measurements.

## 2.2 Equilibrator Temperature

The temperature of water in the equilibrator was read from a mercury thermometer installed inside the equilibrator, and recorded manually. For some cruises a thermistor was also installed inside the equilibrator and temperature was logged automatically every minute. Some of the mercury thermometers and all of the thermistors were calibrated at PMEL as described in Appendix 1. These thermometers can be calibrated to an accuracy of approximately  $\pm 0.05^{\circ}\text{C}$ . The accuracy of the uncalibrated thermometers is estimated as  $\pm 0.1^{\circ}\text{C}$ .

For equilibrator temperatures, readings from mercury thermometers were chosen to be the most accurate or “true” temperatures. This decision was based on the fact that thermometer readings were available for every cruise and the accuracy of the measurement is acceptable

(approximately  $\pm 0.1^{\circ}\text{C}$ ). In general, the "true" temperature was taken from thermometers inserted in the equilibrator and used to "calibrate" the thermistors.

### 3. DATA

In order to help visually distinguish data, different symbols have been used in graphing the data. Circles were used for RITS/CO<sub>2</sub> 1989, squares for RITS/CO<sub>2</sub>/EPOCS 1988, diamonds for RITS/CO<sub>2</sub>/TOGA 1987, triangles for SAGA II 1987, crosses and open circles for RITS/CO<sub>2</sub>/EPOCS 1986.

Regression fits are all linear least-squares fits to the data. The standard error in y for these fit lines is designated as  $\sigma_y$  and indicates the mean estimated standard error (at the 95% confidence level) of predicted individual y for given x. The formula used to calculate the mean estimated variance in y,  $\sigma_y^2$ , is:

$$\sigma_y^2 = \frac{\sum (y_{\text{obs.}} - y_{\text{pred.}})^2}{n-2}$$

#### 3.1 RITS/CO<sub>2</sub> 1989

The *Discoverer* left Seattle on 5 February (Day 37) 1989 and stopped briefly in San Diego and Manzanillo, Mexico before resuming southward along 105°W/110°W and importing in Easter Island on 1 March. The ship departed Easter Island on 4 March (Day 63) and continued along 105°W to 60°S before turning north and arriving in Tahiti on 2 April (Day 92). The final leg of the cruise began 7 April (Day 97) and ended 20 April (Day 110) in Seattle.

##### *Sea Surface Temperatures ( $T_{ss}$ )*

The three sources for  $T_{ss}$  are bucket, CTD, and thermosalinograph records. The survey department on *Discoverer* took bucket temperatures and readings from the thermosalinograph on a regular basis, recording the values on a data sheet. CTD temperatures were automatically logged at the time of each cast.

*Bucket Temperatures.* These were taken from a thermometer approximately every 12 hours, every time an expendable bathythermograph (XBT) was taken. Temperatures were reported in log sheets as uncorrected values. These uncorrected values were adjusted using the calibration and time history record of the thermometer from the NRCC.

*Conductivity-Temperature-Depth Sensor (CTD).* Surface temperatures are available for each hydrocast station. Temperatures at 5 decibars (dbar) were selected to use as surface temperatures since the seachest thermosalinograph was located at approximately 5 m depth. Plots of pressure vs.  $\Delta T$  ( $T_D - T_{D=0}$ , i.e., the temperature at depth D decibars minus the temperature at the surface)

are shown in Figure 2 and indicate that only on Leg 1 was there significant difference in temperature between 0 and 5 dbar (indicating thermal stratification). In all cases  $\Delta T$  was  $<0.4^{\circ}\text{C}$ .

*Thermosalinograph.* A thermosalinograph was installed by *Discoverer* personnel in the seachest located in the ship's bow approximately 5 m below the surface. Data from the thermosalinograph were recorded in two ways. A data logger installed by PMEL recorded data every 6 seconds. These data were then averaged into 1-minute values. Additionally, ship personnel recorded thermosalinograph temperature once hourly from a digital readout display installed on the bridge of the ship. Electronically logged (EL) temperatures were initially corrected with the results of a field calibration performed immediately prior to the cruise. (This correction was later abandoned for reasons which will be described in the following paragraph.) The field calibration was performed by immersing the thermosalinograph probe and a mercury thermometer in a Dewar of water, adjusting the water temperature with ice, and reading the two temperatures. The mercury thermometer temperature was plotted vs. EL thermosalinograph temperature, and a line fit to these data. All 1-minute temperature data were corrected using this linear equation. These 1-minute, field-calibrated data were then despiked by evaluating a running three point trend. Points more than  $0.2^{\circ}\text{C}$  from the trend were discarded. Altogether, 0.2% of the points were discarded.

Comparison of the bucket, CTD, and electronically logged (EL) thermosalinograph temperatures was made by plotting  $T$  vs.  $\Delta T$  in Figure 3. In this graph,  $T$  is the field-calibrated, electronically logged thermosalinograph temperature and  $\Delta T$  for the filled circles is EL thermosalinograph (field-calibrated) – bucket temperature. The open circles designate EL thermosalinograph (field-calibrated) – CTD temperature at 5 dbar. The standard error in  $y$  for the fit lines is higher for EL – bucket ( $0.34^{\circ}\text{C}$ ) than for EL – CTD ( $0.097^{\circ}\text{C}$ ), suggesting that bucket temperatures are less precise than CTD temperatures at 5 dbar. The significantly non-zero, positive  $y$ -intercept also indicates that the field-calibrated EL thermosalinograph temperature is higher than the CTD temperature. This systematic difference was attributed to insufficient accuracy in the field calibration of the thermosalinograph. It was decided to use CTD temperatures at 5 dbar instead of the field calibration to correct the electronically logged (EL) thermosalinograph temperatures. The 1-minute, despiked thermosalinograph temperatures (uncorrected for the field calibration) were extracted for times when the CTD was at 5 dbar. These were plotted against CTD temperature at 5 dbar and a line was fit to the 81 points. Two points were more than  $3\sigma_y$  from the line and were deleted. A new line was fit to the remaining 79 points (Figure 4). This line was used to correct all the 1-minute thermosalinograph data. The 1-minute CTD-corrected electronically logged thermosalinograph values were averaged into hourly values. As a final check,  $T_{ss}(\text{bucket})$  was plotted vs.  $\Delta T$  (EL thermosalinograph – bucket) in Figure 5. Since  $\Delta T$  is not significantly different from 0 over the temperature range  $2^{\circ}$ – $30^{\circ}\text{C}$ , the bucket and the corrected EL thermosalinograph temperatures are not significantly different.

Thermosalinograph temperature was not electronically logged for the first 10 days of the cruise, from Seattle to Manzanillo (Days 37 to 47). The manually logged (ML) thermosalinograph temperature data were evaluated for possible use in providing sea surface temperature for those days. Although both the ML and EL records are from the same device, the ML record is instantaneous temperatures from the thermosalinograph recorded hourly. The electronically logged (EL) temperatures are averages over the entire hour. A comparison of the ML and EL records is shown in Figure 6. In this graph, CTD temperature is plotted against  $\Delta T$  (ML - CTD and EL - CTD). The ML record shows more scatter than the EL record, but the overall comparisons with CTD temperatures are similar. In Figure 7 the extreme outlying point from the ML record has been removed and the data replotted for closer examination. Over the range of temperatures 0–3°C the fit line is not significantly different from zero at the 95% confidence level. The precision of the manually logged measurements, however, is poorer than that of the electronically logged values. The standard error in  $y$  for the ML data from Figure 7 is 0.32°C, as compared with the standard error in  $y$  for the EL data from Figure 6 of 0.097°C. This comparison suggests that the thermosalinograph temperature is variable over an hour and that the EL temperatures averaged over an hour are more representative than the ML temperatures recorded once during an hour. Temperatures for days 37 to 47 of this cruise were provided from the ML thermosalinograph data set.

No electronically logged data for  $T_{ss}$  or  $T_{eq}$  were available for the periods day 54.833–55.208, 78.250–78.833, 87.250–87.708, 98.417–98.542 and 101.875–102.833. Sea surface temperature for these periods were linearly interpolated from the available hourly data.

The uncertainty of  $T_{ss}$  from the ML record can be calculated from the root mean square of the uncertainty in the CTD temperature ( $\pm 0.001^\circ\text{C}$ ) and the standard error in  $y$  for Figure 7 (0.32°C). The uncertainty in sea surface temperature for the ML data is  $\pm 0.32^\circ\text{C}$ .

The uncertainty of  $T_{ss}$  for the EL record can be calculated from the root mean square of the uncertainty in CTD temperature ( $\pm 0.001^\circ\text{C}$ ) and the standard error in  $y$  for Figure 4 ( $\pm 0.072^\circ\text{C}$ ). By this estimation, the uncertainty in sea surface temperature is  $\pm 0.072^\circ\text{C}$ .

#### *Equilibrator Temperatures ( $T_{eq}$ )*

A thermistor (PMEL #T11) was placed in the equilibrator and electrically connected to a Wheatstone bridge. The voltage output was recorded automatically every minute using a data logger. This thermistor was subsequently post-cruise calibrated at PMEL, and the resultant coefficients used to correct the 1-minute voltage data to temperatures. These data were despiked (0.8% of the points were discarded), binned, and averaged into 1-hour values. The equilibrator thermistor temperatures were checked by comparison with periodic readings (approximately every 12 hours) from the 2 mercury thermometers (#86786 and #86787) inserted in the equilibrator. Part of the manual record was lost (day numbers 68–79) and so the  $T_{eq}$  values from approximately 5°–15°C are not well represented. The mercury thermometers were subsequently

calibrated at PMEL. The mean of the corrected thermometer reading  $T_{eq}$  (Hg) was plotted vs.  $\Delta T$  (Hg reading – thermistor reading taken from the corrected 1-minute record). Four points more than  $3\sigma_y$  from the line were discarded and a new line fit to the remaining 74 points (Figure 8). The standard error in  $y$  for Figure 8 is  $0.087^\circ\text{C}$ , and for the temperature range  $0^\circ\text{--}30^\circ\text{C}$ ,  $\Delta T$  is not significantly different from 0. Therefore  $T_{eq}$  as determined by the mean mercury thermometer temperature was not significantly different from the temperature recorded automatically at the same time from the equilibrator thermistor. Consequently, the equilibrator thermistor values were not further corrected. The uncertainty of  $T_{eq}$  can be calculated as the root mean square of the uncertainty of the calibrated thermometer temperature ( $\pm 0.07^\circ\text{C}$ ) and the standard error in  $y$  ( $0.087^\circ\text{C}$ ) for Figure 8 =  $\pm 0.11^\circ\text{C}$ .

### *Warming*

The warming function was evaluated using 1-hour averaged temperatures.  $T_{ss}$ (thermosalinograph) was plotted vs. warming, i.e.,  $T_{eq}$ (thermistor) –  $T_{ss}$ (thermosalinograph), and a line fit through 1243 points. Fourteen points were more than  $3\sigma_y$  from the fit line and were discarded. The line fit to the remaining 1229 points (Figure 9) has the equation  $y = -0.0029x + 0.70$  with standard error in  $y = 0.067^\circ\text{C}$ . The uncertainty of warming is estimated as  $[\sigma^2(T_{ss}) + \sigma^2(\text{warming})]^{0.5} = \pm 0.10^\circ\text{C}$ .

The warming can also be evaluated on a point-by-point basis, but the uncertainty ( $= [(0.072)^2 + (0.11)^2]^{0.5} = \pm 0.13^\circ\text{C}$ ) is higher than the uncertainty in warming from the regression evaluation. The uncertainty in the point-by-point evaluation depends on the uncertainty in both  $T_{eq}$  and  $T_{ss}$  directly, and in the accuracy of calibrating  $T_{eq}$  by thermometer ( $\pm 0.07^\circ\text{C}$ ) and calibrating  $T_{ss}$  by CTD ( $\pm 0.001^\circ\text{C}$ ). A comparison of the point-by-point and the regression method for evaluating the warming are shown in Figure 10. The shaded squares are those points which were discarded in the regression analysis of warming. With the exception of a few points, the point-by-point warming is not significantly different from regression line warming, although the uncertainty for each case is different.

## 3.2 RITS/CO<sub>2</sub>/EPOCS 1988

Data from this cruise were collected on two legs aboard the *Oceanographer*. The first cruise portion was a RITS/CO<sub>2</sub> cruise leaving from Dutch Harbor, Alaska on 6 April (Day 97) 1988 and continuing south along 170°W to American Samoa, arriving on 5 May (Day 126). The EPOCS cruise began from Samoa on 9 May (Day 130). The cruise track was north from Samoa to the equator, east along the equator to 140°W and then north to Honolulu, Hawaii on 4 June (Day 156).

### *Sea Surface Temperatures ( $T_{ss}$ )*

The three sources for  $T_{ss}$  are bucket, CTD, and thermosalinograph.

*Bucket Temperatures.* Bucket temperatures were taken by the survey department personnel of the *Oceanographer* for the RITS/CO<sub>2</sub> cruise approximately every 12 hours using a thermal probe calibrated by the NRCC. The values were already corrected as signified by a bar over the recorded number.

*CTD.* Temperatures at 5 dbar were selected from each hydrocast station.

*Thermosalinograph.* This thermistor was installed in the seachest located in the ship's bow approximately 5 meters below the sea surface. Temperature data were continuously recorded on a strip chart recorder (SC) and also manually logged (ML) once hourly from a digital display. The strip chart record was digitized with an electronic digitizer and stored. This record of T<sub>ss</sub> is available for the entire RITS/CO<sub>2</sub> cruise, but strip chart records were available for only the first 10 days (131.958–140.958) of the EPOCS cruise. RITS/CO<sub>2</sub> and EPOCS (first 10 days) ML and SC temperatures are compared in Figure 11. Although recorded from the same device, the two data sets diverge above approximately 25°C. For temperatures <25°C the two records are quite consistent with one another; for temperatures >25°C the ML record shows an anomaly of approximately -0.3°C from the CTD record. Relative to the CTD record, the SC record is more accurate and precise over the temperature range 5–25°C than the ML record.

Since strip chart (SC) temperatures were not available for the last 20 days (141.00–155.25) of the EPOCS cruise, the ML record for the EPOCS cruise alone was examined more carefully for possible use in this time period. Figure 12 shows CTD temperature plotted vs. ΔT (ML – CTD) for days 131.958–153.417 of the EPOCS leg, for which contemporaneous CTD and ML data exist. Over the temperature range of the EPOCS cruise (22–30°C) the ML record does not differ significantly from the CTD data and the standard error in y (0.057°C) is quite low. The ML record was used to fill in data for the time period 141.000–153.417. Where ML data are missing, sea surface temperature was linearly interpolated from the hourly ML record.

The temperatures measured by the three devices were compared by plotting thermosalinograph strip chart (SC) temperature vs. ΔT in Figure 13. The filled squares indicate the temperature difference between the SC and the corrected bucket measurements. The line fit through these 41 points has a standard error in y of 0.26°C. Open squares indicate the difference in temperature between the SC data and the CTD at 5 dbar. Two points (shaded circles) were >3σ<sub>y</sub> from the original fit line for SC – CTD and have been discarded for the final line fit. The standard error in y for the line fit through the remaining 95 points is 0.090°C. Over the temperature range 0° to 30°C, ΔT is not greater than 1σ<sub>y</sub> from zero for either line. These data suggest that the CTD temperatures are more precise than the bucket temperatures, but that the bucket, SC and CTD sea surface temperatures are the same within the uncertainties of the measurements since over the temperature range 0° to 30°C, ΔT is not significantly different from 0. The SC temperatures were not corrected.

The uncertainty in T<sub>ss</sub> from the SC record (Day 99.042–140.958) is estimated from the uncertainty in CTD temperature and in the standard error in y (0.090°C) from the SC – CTD line

in Figure 13 as  $\pm 0.090^{\circ}\text{C}$ . The uncertainty in  $T_{ss}$  from the ML record (Day 141.000–153.417) is calculated from the root mean square of uncertainty in CTD temperature and the standard error in  $y$  from Figure 12 =  $0.057^{\circ}\text{C}$ .

#### *Equilibrator Temperatures ( $T_{eq}$ )*

Equilibrator temperature was recorded approximately every 12 hours from 2 mercury thermometers. The numbers of these thermometers were not recorded and so no calibration correction was applied. A thermistor (PMEL #12) was also placed in the equilibrator during the RITS/CO<sub>2</sub> cruise and voltages recorded every minute using a data logger. Thermistor measurements for the EPOCS cruise were not made.

For the RITS/CO<sub>2</sub> cruise, equilibrator temperature read from the mercury thermometers was compared with the closest one-minute temperature recorded by the data logger (1-minute voltage converted to temperature using a pre-cruise calibration) by plotting mean mercury thermometer temperature vs.  $\Delta T$  (Figure 14). The standard error in  $y$  for a line fit to these 39 points is  $0.17^{\circ}\text{C}$ . The uncertainty in equilibrator temperature is calculated as the root mean square of the errors from the regression and from the thermometers =  $(0.17^2 + 0.11^2)^{0.5} = \pm 0.20^{\circ}\text{C}$ . This line is significantly different from zero at the 95% confidence level, and suggests a systematic error. The accuracy in temperature from the preliminary thermistor calibration is uncertain and so the thermometer data were used to correct the thermistor data. Figure 15 shows a plot of  $T_{eq}$ (thermistor) vs.  $T_{eq}$ (Hg) for times of coincident temperatures which was used to correct 1-minute thermistor data. One-minute thermistor temperatures (converted from voltages using the preliminary calibration) were corrected. The corrected thermistor data were despiked (0.45% of the points were discarded), binned, and averaged into 1-hour values. The uncertainty for  $T_{eq}$  from the thermistor on RITS/CO<sub>2</sub> 1988 =  $\pm 0.20^{\circ}\text{C}$ .

For the EPOCS cruise, the manually recorded equilibrator temperatures were interpolated onto an hourly grid (Figure 16). These values are indicated in the final data table by the flag ID, interpolated from data.

#### *Warming*

To evaluate the warming, final  $T_{ss}$  values from the RITS/CO<sub>2</sub> SC record were plotted vs. the difference between averaged sea surface temperature and averaged equilibrator thermistor temperature for the same hourly interval. The RITS/CO<sub>2</sub> record only was used to evaluate the warming since the EPOCS  $T_{eq}$  data have been interpolated from 12-hour values, and are probably not as accurate as measured hourly values. A line was fit through the 859 points and 21 points more than  $3\sigma_y$  from the fit line were discarded. A new line was fit to the remaining 838 points with equation  $y = -0.0072x + 0.41$  (Figure 17). The uncertainty in warming can be calculated from root mean square of uncertainties in  $T_{ss}$  and the regression line as  $[(0.090)^2 + (0.097)^2]^{0.5} = \pm 0.13^{\circ}\text{C}$ .

Warming can also be evaluated on a point-by-point basis, but as with the 1989 data, the uncertainty in the warming is higher ( $\pm 0.22^{\circ}\text{C}$ ). Comparison of the two methods for evaluating warming are shown in Figure 18. Shaded circles are those points which were discarded in the regression analysis. The dashed lines indicate the uncertainty in regression warming.

#### *Reconstruction of Missing Data for the Sea Surface Temperature Record*

Hourly values of  $T_{ss}$  are not available for the last 2 days (153.458–155.250) of the EPOCS cruise. An hourly record of measured  $T_{eq}$  also was not available since thermistor measurements were not made on the EPOCS cruise. By working back from the interpolated  $T_{eq}$  values (from Figure 16), however, the sea surface temperature for those 2 days can be reconstructed. The regression equation for warming (from Figure 16) was used in conjunction with the interpolated  $T_{eq}$  values to determine the amount of warming at each hourly  $T_{eq}$  for days 153.458–155.250. Subtraction of the warming yielded an hourly value for sea surface temperature for those days. These values are designated in the final data tables as R for reconstructed.

### **3.3 SAGA II 1987**

This expedition aboard the Soviet vessel *Akademik Korolev* began and ended in Hilo, Hawaii. The first segment from Hilo to Kamchatka, Alaska began 1 May (Day 121) 1987, and is termed the Kamchatka transect and Leg 0. Leg 1 from Kamchatka began on 8 May (Day 128) and followed the 160°E longitude south to 5°S and then the 170°E longitude into Wellington, New Zealand on 9 June (Day 160). Leg 2 began on 12 June (163) heading north along 90°E and concluded in Singapore on 6 July (Day 187).

#### *Sea Surface Temperatures ( $T_{ss}$ )*

*Bucket Temperatures.* These were taken every 1–3 hours by the ship's crew using Soviet thermometers which were not calibrated against U.S. ones.

*CTD.* For Leg 1, surface temperatures were taken from the CTD hydrocast data collected and calibrated by the Scripps Institution of Oceanography. The Scripps data were reported at 2 dbar intervals and so the 5 dbar data were interpolated between 4 and 6 dbar. A Soviet-calibrated CTD was used for Leg 2 but these temperature data were not used to avoid any possible systematic differences between U.S.- and Soviet-calibrated CTDs.

Bucket and CTD temperatures were compared for Leg 1 by plotting U.S.-calibrated CTD temperature at 5 dbar vs.  $\Delta T$  (CTD – bucket). One point was more than  $3\sigma_y$  from the regression line and was discarded. A line was fit through the remaining 67 points (Figure 19) with standard error in y of  $0.33^{\circ}\text{C}$ . At higher temperatures the fit line is more than  $1\sigma_y$  from zero, so the 3-hour bucket temperatures were corrected using CTD temperature at 5 dbar. A line fit through the 67 points of bucket vs. CTD temperature at 5 dbar gives a line with equation  $y = 1.008x + 0.00866$  ( $r^2 = 0.999$ ), Figure 20. This equation was used to correct the 3-hour

bucket temperatures. To obtain an hourly record of  $T_{ss}$ , the 3-hour bucket temperature record was interpolated. The uncertainty in  $T_{ss}$ (bucket) can be calculated as the root mean square of uncertainty in CTD temperature ( $\pm 0.001^{\circ}\text{C}$ ) and the standard error in  $y$  for Figure 19 =  $\pm 0.33^{\circ}\text{C}$ .

#### *Equilibrator Temperatures ( $T_{eq}$ )*

Equilibrator temperature was recorded from 2 mercury thermometers 3–4 times per day on Legs 1 and 2. The numbers of these thermometers were not recorded and so the temperatures are uncorrected. For Leg 2, equilibrator temperature was also logged automatically every minute from a thermistor (PMEL #3) inserted in the equilibrator. Problems with this thermistor record precluded its use as a reliable continuous record of  $T_{eq}$ .

#### *Warming*

To avoid possible systematic error by comparing thermometers calibrated by different standards, only temperatures traceable to a National Institute of Standards and Technology (NIST) scale were used to evaluate the warming function, as suggested by Butler *et al.* (1988). A warming function was evaluated for Leg 1 data by plotting CTD temperature at 5 dbar vs.  $\Delta T$ , where  $\Delta T$  is the equilibrator temperature (mean uncorrected Hg) – CTD temperature at 5 dbar for times when these coincided. Two points were more than  $3\sigma_y$  from the line and were discarded. A line was fit to the remaining 59 points (Figure 21) with standard error in  $y$  =  $0.24^{\circ}\text{C}$ . The results from this analysis are insignificantly different from those reported by Butler *et al.* (1988).

The uncertainty in warming is calculated as the root mean square error of CTD temperature ( $0.001^{\circ}\text{C}$ ) and the standard error in  $y$  for Figure 21 =  $\pm 0.24^{\circ}\text{C}$ . To obtain an hourly record of warming for both Legs 1 and 2, the equation from Figure 21 was applied to the interpolated, corrected hourly bucket temperatures. The total uncertainty for hourly warming is the root mean square of uncertainty in warming ( $0.24^{\circ}\text{C}$ ) and in hourly bucket temperature ( $0.33^{\circ}\text{C}$ ) =  $\pm 0.41^{\circ}\text{C}$ .

### **3.4 RITS/CO<sub>2</sub>/TOGA 1987**

The *Oceanographer* left Townsville, Australia on 13 July (Day 194) 1987 for the TOGA cruise, steaming in a direct line to 5°S, 165°E and then proceeding north along 165°E to Kwajalein, Micronesia on 27 July (Day 208). The RITS/CO<sub>2</sub> cruise began on 29 July (Day 210) from Kwajalein and continued north along 165°E to 50°N and then east into Dutch Harbor, Alaska. After a brief stop in Dutch Harbor on day 233/234, the ship continued east along 50°N and then into Seattle, Washington on 28 August (Day 240).

#### *Sea Surface Temperatures ( $T_{ss}$ )*

The sources used for  $T_{ss}$  are CTD and thermosalinograph.

CTD. Temperatures at 5 dbars were selected from each hydrocast.

*Thermosalinograph.* Data from the thermosalinograph were continuously recorded as temperature on a strip chart recorder (SC) and also manually logged (ML) once hourly. Strip chart rolls were manually digitized and data were entered onto the VAX computer.

The SC and ML records from the same thermosalinograph are compared in Figure 22. CTD temperature is plotted against  $\Delta T$ , where  $\Delta T$  is ML - CTD or SC - CTD. The lines fit to the data are insignificantly different from one another and insignificantly different from zero. The standard error in  $y$  for the SC record ( $0.11^\circ\text{C}$ ) is somewhat better than for the ML record ( $0.16^\circ\text{C}$ ), consistent with the fact that the ML temperature is recorded once hourly and the SC is continuously recorded and averaged into hourly values. The uncorrected SC record was chosen for use as the continuous sea surface record.

The uncertainty in the SC temperature is estimated as the root mean square of the standard error in  $y$  ( $0.11^\circ\text{C}$ ) from Figure 22 and the uncertainty ( $\pm 0.001^\circ\text{C}$ ) in CTD temperature =  $\pm 0.10^\circ\text{C}$ .

#### *Equilibrator Temperatures ( $T_{eq}$ )*

Equilibrator temperature was recorded approximately every 18 hours from 2 mercury thermometers. Thermometer numbers were not recorded and so the temperatures from the thermometers were not corrected. A thermistor placed in the equilibrator also recorded temperature every minute. The accuracy of the thermistor was evaluated by plotting in Figure 23  $T_{eq}$  (the mean value from the mercury thermometers) vs.  $\Delta T$  (mean thermometer - thermistor temperature). Two points shown as shaded in Figure 23 were more than  $3\sigma_y$  from this line and were discarded. The new fit line is significantly different from 0, and so the thermistor equilibrator temperatures were corrected using the equation  $y = 1.01 T_{eq}(\text{thermistor}) - 0.280$  (Figure 24). The uncertainty in this equilibrator temperature record is estimated as the root mean square of the uncertainty ( $\pm 0.11^\circ\text{C}$ ) in the thermometer record and in the standard error in  $y$  ( $0.12^\circ\text{C}$ ) from Figure 23 =  $\pm 0.16^\circ\text{C}$ .

The thermistor did not function reliably beyond day 225.75 and so thermistor equilibrator temperatures were not available for the last 15 days of the RITS/CO<sub>2</sub> cruise.

#### *Warming*

A warming curve was constructed using hourly temperatures from day 194.5 to 225.75 (Figure 25). Sea surface temperatures from the SC record were plotted vs.  $\Delta T$  ( $T_{eq} - T_{ss}$ ). A line was fit through the 640 points and 7 were discarded (shaded circles) as more than  $3\sigma_y$  from the fit line. A line fit to the remaining 633 points is described by the equation  $y = -0.011x + 0.61$  with standard error in  $y = 0.10^\circ\text{C}$ .

The uncertainty in regression warming is calculated as the root mean square of CTD temperature ( $0.001^\circ\text{C}$ ) and the standard error in  $y$  for Figure 25 =  $\pm 0.10^\circ\text{C}$ . The uncertainty in

warming evaluated at each hour (point-by-point) is calculated as the root mean square of uncertainties in hourly  $T_{ss}$  and  $T_{eq} = [(0.10)^2 + (0.16)^2]^{0.5} = \pm 0.19^\circ\text{C}$ . The warming as a function of date is shown in Figure 26.

### 3.5 RITS/CO<sub>2</sub>/EPOCS 1986

The EPOCS leg began in Balboa, Panama on 23 May (Day 143) 1986 and continued west along the equator to 140°W. The *Oceanographer* then turned north and arrived in Honolulu, Hawaii on 20 June (Day 171). Following the import in Hawaii, the RITS/CO<sub>2</sub> leg began on 1 July (Day 182). The ship headed north, east and then north into Dutch Harbor, Alaska on 23 July (Day 204).

#### *Sea Surface Temperatures ( $T_{ss}$ )*

Sea surface measurements from CTD and thermosalinograph devices were used for this cruise.

**CTD.** Temperatures at 5 dbar were selected from each hydrocast station (2–3 values per day).

**Thermosalinograph.** Thermosalinograph temperature was manually recorded once hourly in the bridge deck log by ship personnel and was also continuously recorded using a strip chart recorder (SC). The strip chart (SC) record of the thermosalinograph record was optically scanned and digitized onto a VAX computer (approximately 144 values per day). The SC record was despiked and then averaged into hourly values.

The manually logged (ML) thermosalinograph record was compared with the strip chart (SC) record from the same device for RITS/CO<sub>2</sub> by plotting CTD temperature at 5 dbar versus  $\Delta T$  (ML – CTD or SC – CTD) in Figure 27. The fitted lines are not significantly different at the 95% confidence level, but the confidence interval is greater for the ML record than for the SC record. For this reason the SC record was used to obtain final  $T_{ss}$  values.

The accuracy of the SC record was evaluated by comparison with contemporaneous CTD values. Each CTD value (48 from EPOCS, 58 from RITS/CO<sub>2</sub>) was paired with a SC temperature by choosing the two averaged SC values which bracketed a CTD reading, and then interpolating between these two values to get a SC temperature which matched the time of the CTD reading. Figure 28 illustrates the comparison. CTD temperature was plotted vs.  $\Delta T$  (SC – CTD). The slope for the combined EPOCS and RITS/CO<sub>2</sub> data is not significantly different from the slope for the RITS/CO<sub>2</sub> data alone, and so the data were combined.

The line fit to the combined data in Figure 28 is significantly different from zero, suggesting a bias in the SC data. CTD temperatures were used to correct the SC thermosalinograph data. Figure 29 shows a plot of SC temperature versus CTD temperature. The equation of the line fitted to these data was used to correct the hourly SC data.

Several gaps existed in the SC record. The gap from day 165.500 to 167.000 was filled by interpolating between available CTD temperatures during this period (7 values), then adding the interpolated values to the hourly averaged record. The SC record was also damaged for the days 143.833–144.583, 184.042–184.958 and 199.042–199.458. Sea surface temperatures for these time periods were reconstructed from the interpolated hourly equilibrator temperature using the regression warming equation.

The uncertainty of the sea surface temperatures can be estimated as the root mean square of uncertainty in the CTD temperatures ( $\pm 0.001^\circ\text{C}$ ) and the standard error in  $y$  ( $0.082^\circ\text{C}$ ) for the regression of CTD versus SC temperature from Figure 29 =  $[(0.001)^2 + (0.082)^2]^{0.5} = \pm 0.082^\circ\text{C}$ .

### *Equilibrator Temperatures ( $T_{eq}$ )*

The equilibrator temperatures were recorded with an uncalibrated mercury thermometer. There were approximately 15 readings per day with a total of 494 readings during the EPOCS leg and 278 readings during the RITS/CO<sub>2</sub> leg. These temperatures were interpolated into 1 hour values. The uncertainty in  $T_{eq}$ , estimated as the root mean square of uncertainty in reading the thermometer ( $\pm 0.5^\circ\text{C}$ ) and in accuracy ( $\pm 0.1^\circ\text{C}$  is an average correction), =  $[(0.05)^2 + (0.1)^2]^{0.5} = \pm 0.11^\circ\text{C}$ . This value is a minimum due to the unknown uncertainty introduced by interpolating the nearest hourly thermometer readings.

### *Warming*

The warming can be evaluated by using the direct point-by-point difference between  $T_{eq}$  and  $T_{ss}$ , or by using a regression analysis. The uncertainty using the point-by-point method can be estimated from the root mean square of the uncertainties in  $T_{ss}$  ( $\pm 0.082^\circ\text{C}$ ) and  $T_{eq}$  ( $\pm 0.11^\circ\text{C}$ ) =  $\pm 0.14^\circ\text{C}$ .

The regression warming was evaluated by plotting hourly averaged  $T_{ss}$  versus  $\Delta T$  (hourly averaged  $T_{eq}$  – hourly averaged  $T_{ss}$ ) as shown in Figure 30. A line was fit through the 1077 points and 29 points (shaded squares) more than  $3\sigma_y$  from the fit line were discarded. A line fit through the remaining 1048 points can be described by the equation  $y = -0.0040x + 0.74$  with standard error in  $y = 0.020$ . The uncertainty of the regression warming can be estimated from the root mean square of the uncertainties in  $T_{ss}$  and the standard error in  $y$  from Figure 30 =  $[(0.082)^2 + (0.20)^2]^{0.5} = \pm 0.22^\circ\text{C}$ .

Warming as a function of date is shown in Figure 31.

## 4. DISCUSSION

### 4.1 Sea Surface Temperature

Of the three methods for measuring  $T_{ss}$  (bucket, CTD, and thermistor), CTD measurements are probably the most accurate since the CTD is calibrated to very high accuracy at least once per year. The principal drawback to using CTD temperature measurements to assess *in situ* gas

concentrations is poor time resolution. For most of these cruises, CTD casts were made once or twice per day.

Although bucket measurements were made more frequently than CTD measurements on many of the cruises, they were still not frequent enough for adequate temporal resolution. Additionally, the accuracy of bucket measurements is uncertain because of variable cooling, variable waiting time before measurement, and variable sample depth due to the sea state at the time of collection. Additionally, bucket temperatures are taken from surface waters while water for gas measurements is drawn from ~5 m. In regions of stratification the surface water temperature as measured by a bucket collection may be slightly different from the temperature at 5 m. Although there are some problems with bucket temperatures, they provide verification that the temperature measured by the thermistor is correct to better than 0.5°C. This is especially helpful if no CTD or other sea surface temperature measurements were taken.

Continuously recorded thermistor measurements offer the highest degree of temporal resolution. The chief problem with these measurements is accuracy. Since significant electronic drift can occur over the weeks of a cruise, the accuracy of the thermistor was evaluated by comparison with CTD temperature measured at the same time. If the CTD temperature was significantly different from the thermistor temperature over the temperature range of the cruise, the CTD temperatures were used to "calibrate" the thermistor measurements. The CTD temperature probe was calibrated to  $\pm 0.001^\circ\text{C}$  accuracy so the possible sources of error in using the CTD temperature as the "true" temperature are 1) depth differences between the CTD and the inlet line and 2) differences in the recording time. Calibrating the thermosalinograph thermistor before and after each cruise would obviate the need for "calibration" using the CTD. Thermistors were used to monitor sea surface temperature on all but the SAGA II cruise, and uncertainties in  $T_{ss}$  are estimated at  $\le 0.10^\circ\text{C}$  for those cruises where thermistors were used.

#### 4.2 Equilibrator Temperature

Measurements of equilibrator temperature were made on all the cruises using a mercury thermometer. Thermistors were also installed in the equilibrator on several of the cruises. Since the thermistors were not calibrated before and after each cruise to evaluate the extent of electronic drift, thermometers were regarded as the "true" temperature and were used to "calibrate" the thermistors if necessary. Because the uncertainty of the thermometer readings is limited to  $\pm 0.07^\circ\text{C}$  for calibrated thermometers and  $\pm 0.11^\circ\text{C}$  for uncalibrated thermometers, all equilibrator temperatures were constrained by these limits.

#### 4.3 Warming

A comparison of warming for all the cruises is given in Table 2. The warming is a function of sea surface temperature, flow rate, pump design, pipe characteristics, routing of the pipe line, and location of the equilibrator.

TABLE 2. Warming Summary

Project	Year	Ship	Location	Insulated	PIPE CHARACTERISTICS			REGRESSION					
					Equil.	Diameter in inches	T <sub>eq</sub>	Hourly Point-by-point	Hourly T <sub>eq</sub>	Hourly T <sub>eq</sub>	Point-by-point Uncertainty	Point-by-point Uncertainty	Point-by-point T Range
RITS/CO <sub>2</sub>	1989	D	Inside	Yes	Inside	0.8	0.072	0.11	0.13	0.30	0.64	-0.0029	0.10
RITS/CO <sub>2</sub> /EPOCS	1988	O	Outside	Yes	Outside	1.5	0.090	0.20	0.22	0-30	0.27	-0.0072	0.13
SAGA II	1987	K	Outside	No	Outside	1.5	0.33	>0.11	-	0-30	0.36	-0.016	0.41
RITS/CO <sub>2</sub> /TOGA	1987	O	Inside	No	Outside	0.75	0.10	0.16	0.19	10-30	0.39	-0.011	0.10
RITS/CO <sub>2</sub> /EPOCS	1986	O	Inside	No	Outside	0.75	0.082	>0.11	0.14	10-30	0.66	-0.00040	0.22

D = Discoverer

O = Oceanographer

K = Korolev

The effect of sea surface temperature on warming can be seen by examining the regression line warming for each cruise. In every case, the regression line warming has negative slope, indicating that warming is greatest for lowest sea surface temperatures. Conductive heating is probably responsible for the dependence of warming on sea surface temperature. When cold water enters the ship, it is warmed by conductive heat transfer from the surrounding air through the pipe. This conductive heating is proportional to the temperature difference between the water and the air through which the pipe runs. At lower water temperatures, the thermal gradient is higher, and consequently, warming is greater. This effect is significant even for insulated pipes.

The flow rate of water travelling through the pipe affects both frictional and conductive warming of water as it transits from the inlet line to the equilibrator. Frictional heating is proportional to the velocity of water in the pipe. For a low flow rate, frictional heating should be lower. Conductive heating will be higher, however, if the residence time of water in the pipe is higher in regions where the air temperature is higher than the water travelling through the pipe.

The pump design will also influence the extent of warming for any given system. Heat from the pump itself can be transferred to the water, particularly for pumps which are not of a positive displacement design. Since for all the cruises discussed in this report a positive displacement centrifugal pump was used heat transfer effects were minimized. However, any frictional heat transferred to the water in the pump by the spinning impeller is discharged less effectively with lower flow rates, and the warming will be higher when water flow is lower.

Pipe characteristics affect both frictional and conductive warming. A smaller diameter, longer pipe will provide relatively more frictional warming and the pipe material and insulation will affect conductive warming.

Running the pipe lines outside the ship as much as possible and locating the equilibrator out of doors will reduce conductive heating.

The warming of sea surface water in travelling from the bow inlet to the equilibrator was evaluated by both the regression and the hourly point-by-point methods. For the regression method, the variability in warming was assumed to be random, and a simple function was fit to those randomly distributed points. Figure 32 shows the distribution of residual regression warming for days 65–75 in 1989 as a function of time. This figure indicates that the warming was not randomly distributed in time. Some sort of diurnal variation seems likely, but the unquantified sources of variability (flow rate, insolation, ship heading, etc.) make it difficult to discern any clear pattern. If flow rate and other data were available, these sources of variability could be filtered out to examine any remaining systematic variability as a function of time of day.

Comparisons of the uncertainty in warming for the regression and the point-by-point methods shown in Table 2 seem surprisingly different. With the exception of 1986, the warming uncertainty is higher using the point-by-point method of assessment. The uncertainty of this method can be calculated from the root mean square of the uncertainty in the hourly values of

$T_{ss}$  and  $T_{eq}$ . If both  $T_{ss}$  and  $T_{eq}$  are determined accurately and precisely, the point-by-point method of assessing warming is the most reliable and direct. For the cruises evaluated in this report, the uncertainty in the point-by-point warming is limited by the uncertainty of the  $T_{eq}$  measurements. Since the thermistors used to measure  $T_{eq}$  were not independently calibrated before and after each cruise, the accuracy of all  $T_{eq}$  measurements is ultimately limited by the uncertainty of the thermometer readings. Thermometers of the type used in the equilibrator can be independently calibrated to an accuracy of approximately  $\pm 0.05^{\circ}\text{C}$ . The precision in reading these thermometers is limited by the gradation scale spacing to approximately  $\pm 0.05^{\circ}\text{C}$ . The overall uncertainty of any one measurement made with a calibrated thermometer can be calculated as the root mean square of the uncertainty in accuracy and precision as  $\pm 0.07^{\circ}\text{C}$ . For an uncalibrated thermometer the uncertainty is higher (estimated as approximately  $\pm 0.011^{\circ}\text{C}$ ).

The warming uncertainty of the regression method is based upon the correlation of many measurements of  $T_{ss}$  and  $T_{eq}$ . The uncertainty can be calculated as the root mean square of the uncertainty in  $T_{ss}$  and  $\Delta T$  ( $T_{eq} - T_{ss}$ ). The uncertainty in  $\Delta T$  is taken as the standard error in  $y$  for the line fit to  $T_{ss}$  vs.  $\Delta T$ . With the exception of the SAGA II expedition, the uncertainty in  $T_{ss}$  for these cruises is  $\leq 0.10^{\circ}\text{C}$ . If the variability in  $\Delta T$  on a short time scale is low and random, the warming uncertainty of the regression method is expected to be low. Even in the case of the clearly non-random warming variability shown in Figure 32, the overall uncertainty in 1989 regression warming is quite low ( $0.10^{\circ}\text{C}$ ).

The warming uncertainty for the 1986 data is higher as assessed by the regression method than by the point-by-point method. This is contrary to the situation for data collected in years 1987–1989. Low water flow rates in 1986 may have contributed to higher systematic variability in warming.

## 5. CONCLUSIONS

Accurate thermal measurements are important to accurate assessment of *in situ* gas concentrations. The use of high accuracy (better than  $\pm 0.05^{\circ}\text{C}$ ) and precision thermometers, and calibration of thermistors before and after each cruise are suggested. Frequent recording of thermal data, at least hourly, if not recorded automatically, allows for reasonable temporal resolution. The pump design, location and type of the seawater delivery pipe, and flow rate of water all influence the warming of seawater in transiting from the inlet line to the equilibrator.

## 6. ACKNOWLEDGMENTS

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## Appendix 1. List of acronyms and abbreviations

CO <sub>2</sub>	carbon dioxide
CTD	conductivity-temperature-depth
EL	electronically logged
EPOCS	Equatorial Pacific Ocean Climate Study
GMT	Greenwich Mean Time
ML	manually logged
NOAA	National Oceanic and Atmospheric Administration
PMEL	Pacific Marine Environmental Laboratory
RITS	radiatively important trace species
SAGA	Soviet-American Gas and Aerosol Experiment
SC	strip chart
TOGA	Tropical Ocean-Global Atmosphere
T <sub>ss</sub>	sea surface temperature
T <sub>eq</sub>	equilibrator temperature
μatm	microatmospheres
σ <sub>y</sub>	standard error in y
°C	degrees Celsius

## **Appendix 2. Data File Information**

The column headings are Decimal Date (GMT), Decimal Latitude, N/S Indicator, Decimal Longitude, E/W Indicator, Hourly  $T_{ss}$ , Data Indicator Flag for  $T_{ss}$ , Hourly  $T_{eq}$ , Data Indicator Flag for  $T_{eq}$ , Regression Warming, Data Indicator Flag for Regression Warming, Point-by-Point Warming, Data Indicator Flag for Point-by-Point Warming.

The electronic file data are in ASCII format. Missing data are designated by -99.

All dates are reported in Greenwich Mean Time (GMT). Latitudes and longitudes are all reported as positive values with 3 digits after the decimal point. A separate field gives a N/S or E/W designation. All temperatures are reported in °C. Fields are given to flag the status of particular data points. The data indicator flags used are:

- \* missing value
- D deleted in creating regression warming curves
- IH interpolated between nearest hourly values
- ID interpolated using available data
- R reconstructed value
- ML manually logged thermosalinograph temperature



## **FIGURES**

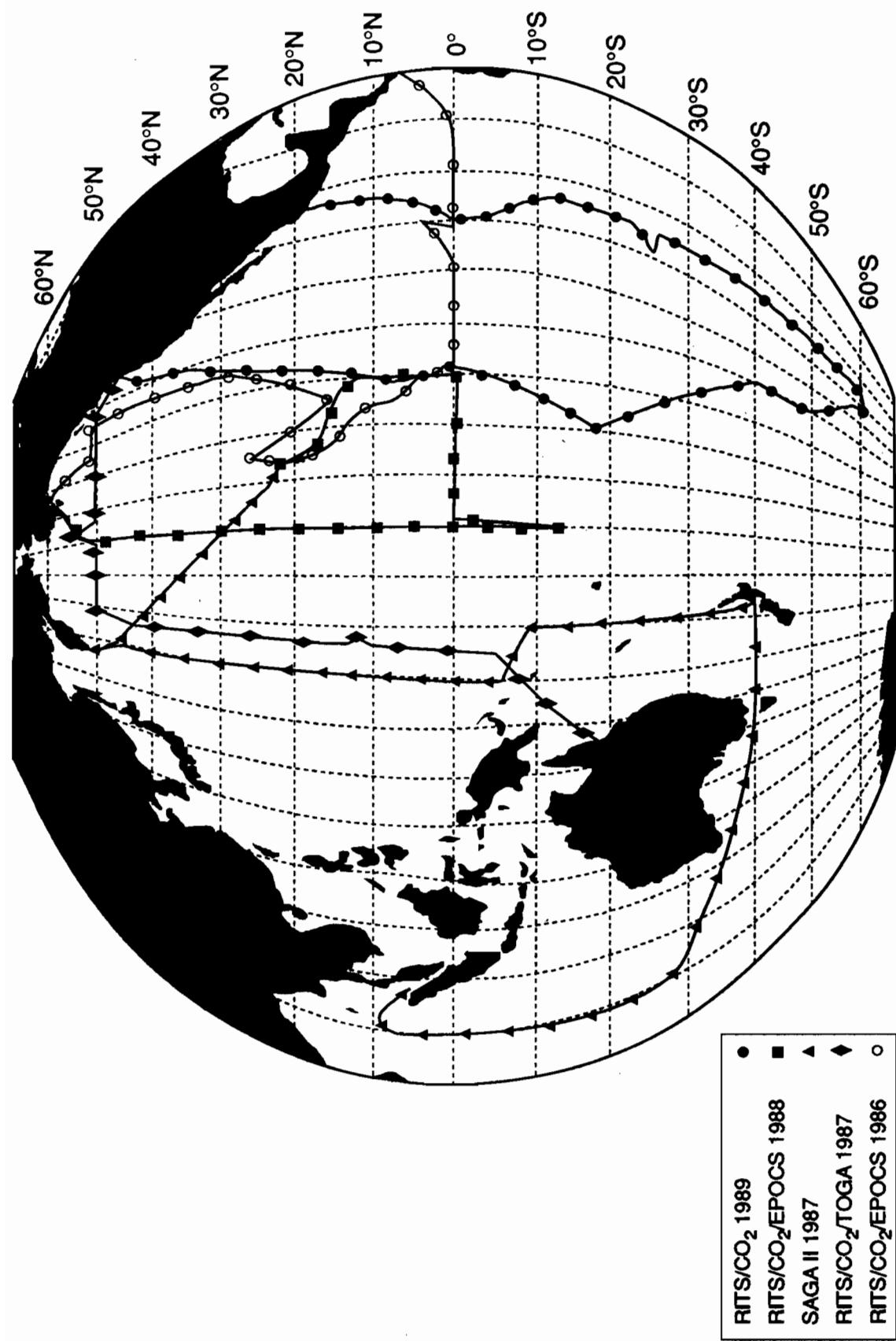


Fig. 1. Cruise tracks along which data were collected during RITS/CO<sub>2</sub> 1989 in February–April, RITS/CO<sub>2</sub>/EPOCS 1988 in April–June, SAGA II 1987 in May–July, RITS/CO<sub>2</sub>/TOGA 1987 in July–August, and RITS/CO<sub>2</sub>/EPOCS 1986 in May–July 1986.

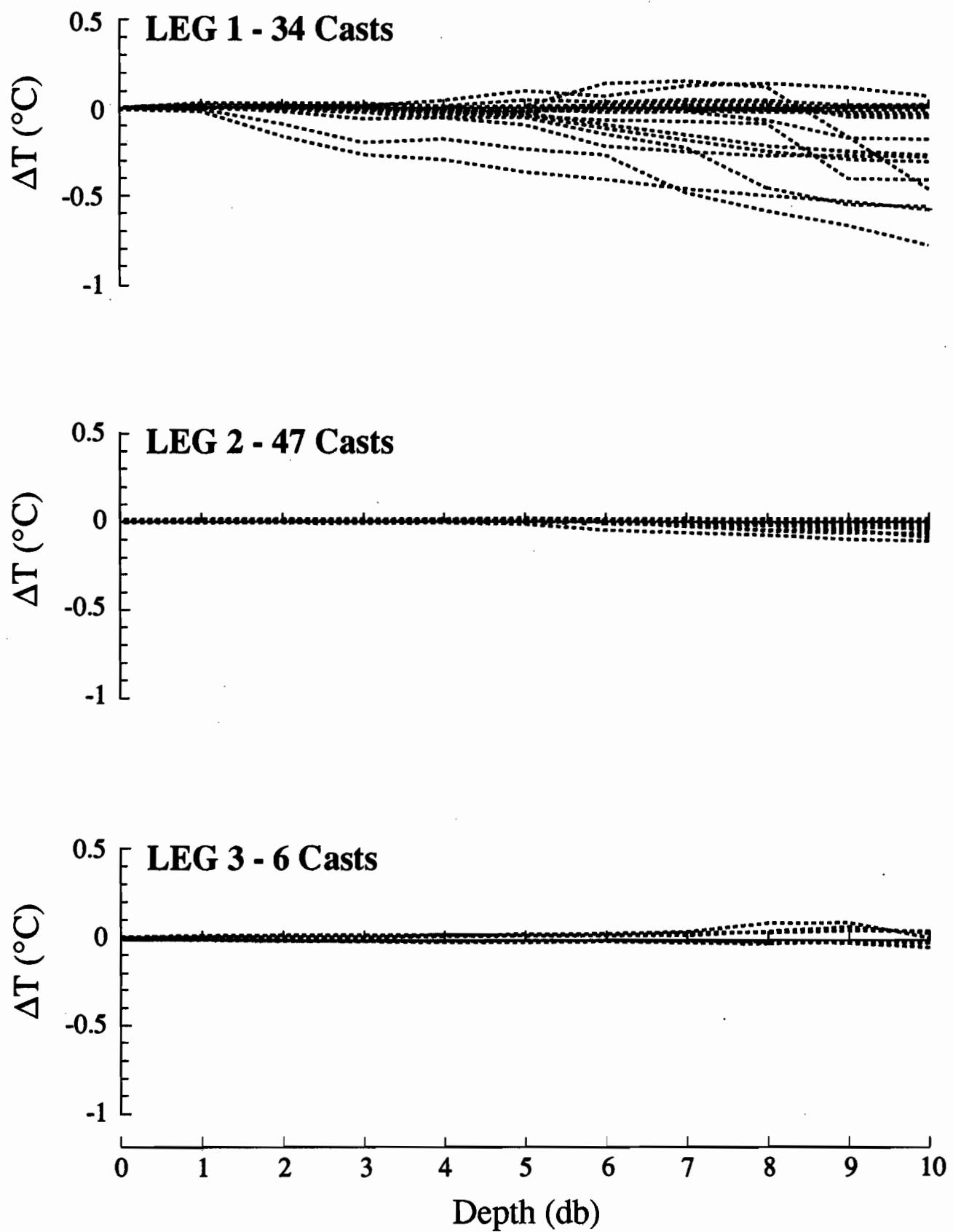


Fig. 2. Depth dependence of surface seawater temperature from CTD data collected during RITS/CO<sub>2</sub> 1989.

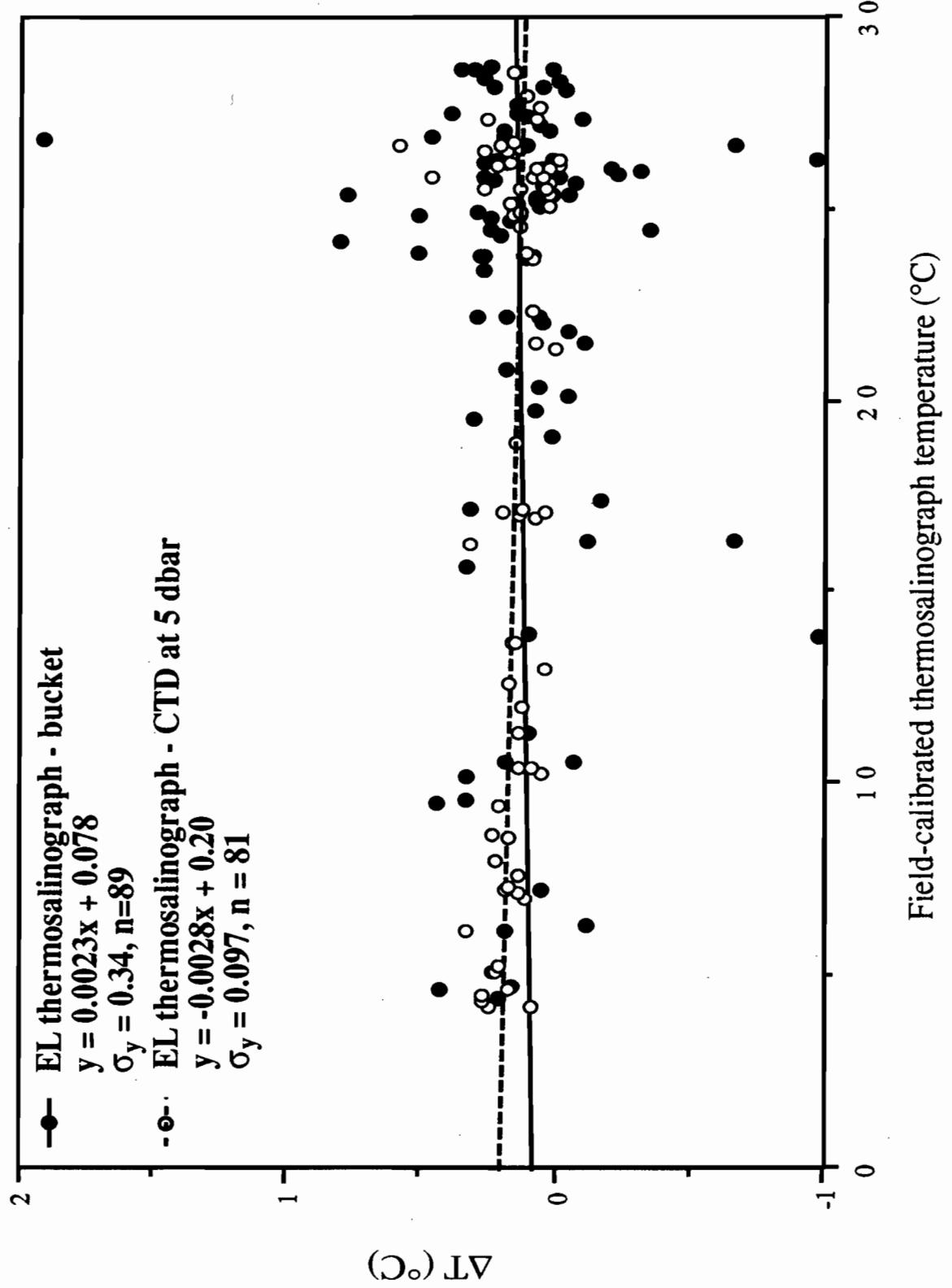


Fig. 3. Comparison of sea surface temperature data collected during RITS/CO<sub>2</sub>, 1989. Thermosalinograph temperatures are corrected using the field calibration. The electronically logged (EL) thermosalinograph (field-calibrated) – bucket temperatures are represented by a filled circle and solid line. The EL thermosalinograph (field-calibrated) – CTD at 5 dbar temperatures are represented by an open circle and dashed line.

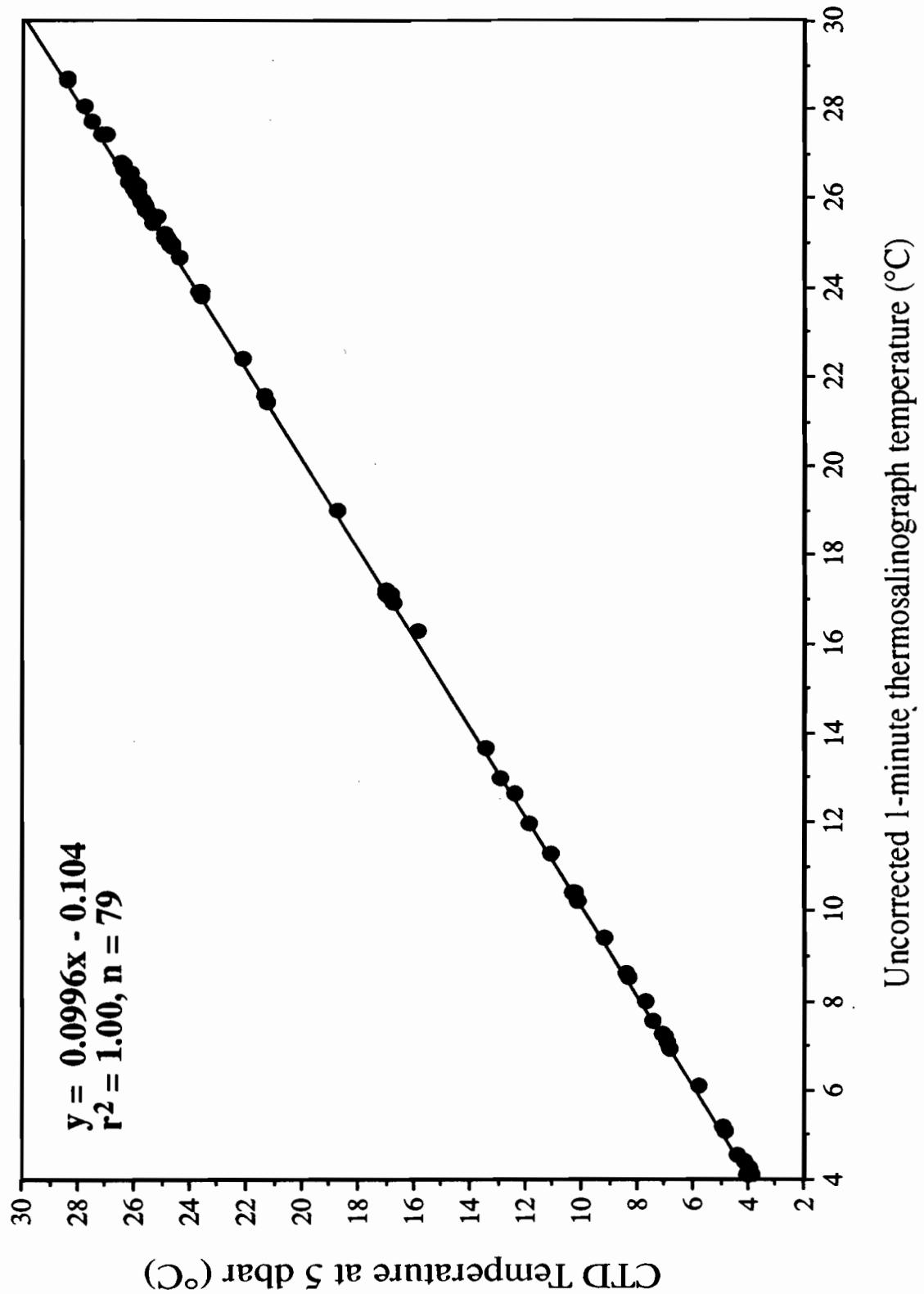


Fig. 4. Calibration of RITS/CO<sub>2</sub> 1989 sea surface temperature data. The uncorrected thermosalinograph temperature is plotted against the CTD temperature at 5 dbar for times of coincident measurements. The line fit through these data was used to correct the thermosalinograph temperatures.

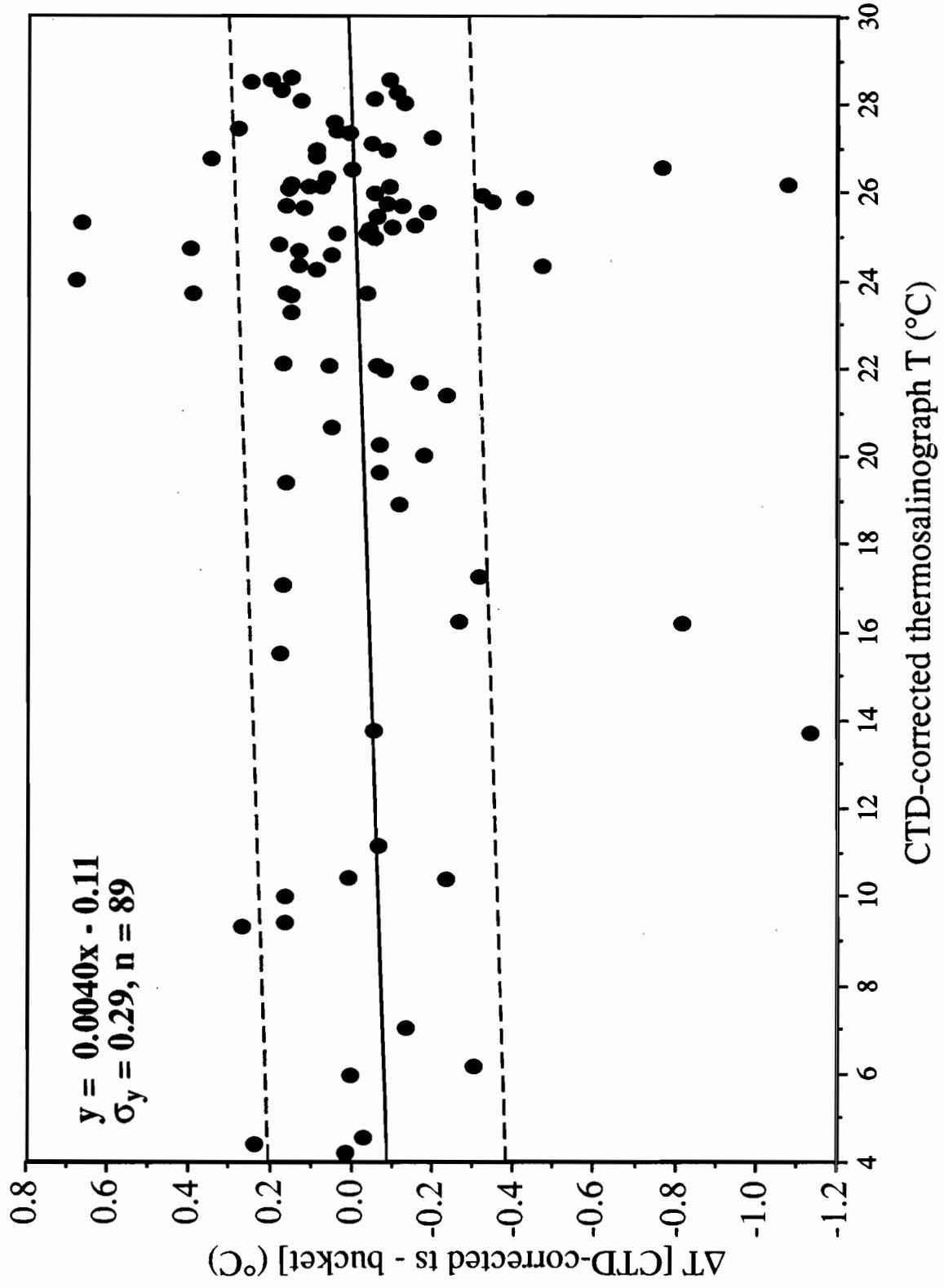


Fig. 5. Comparison of corrected thermosalinograph and bucket temperatures for RITS/CO<sub>2</sub> 1989. The dashed lines represent the  $1\sigma$ , deviation from the fit line.

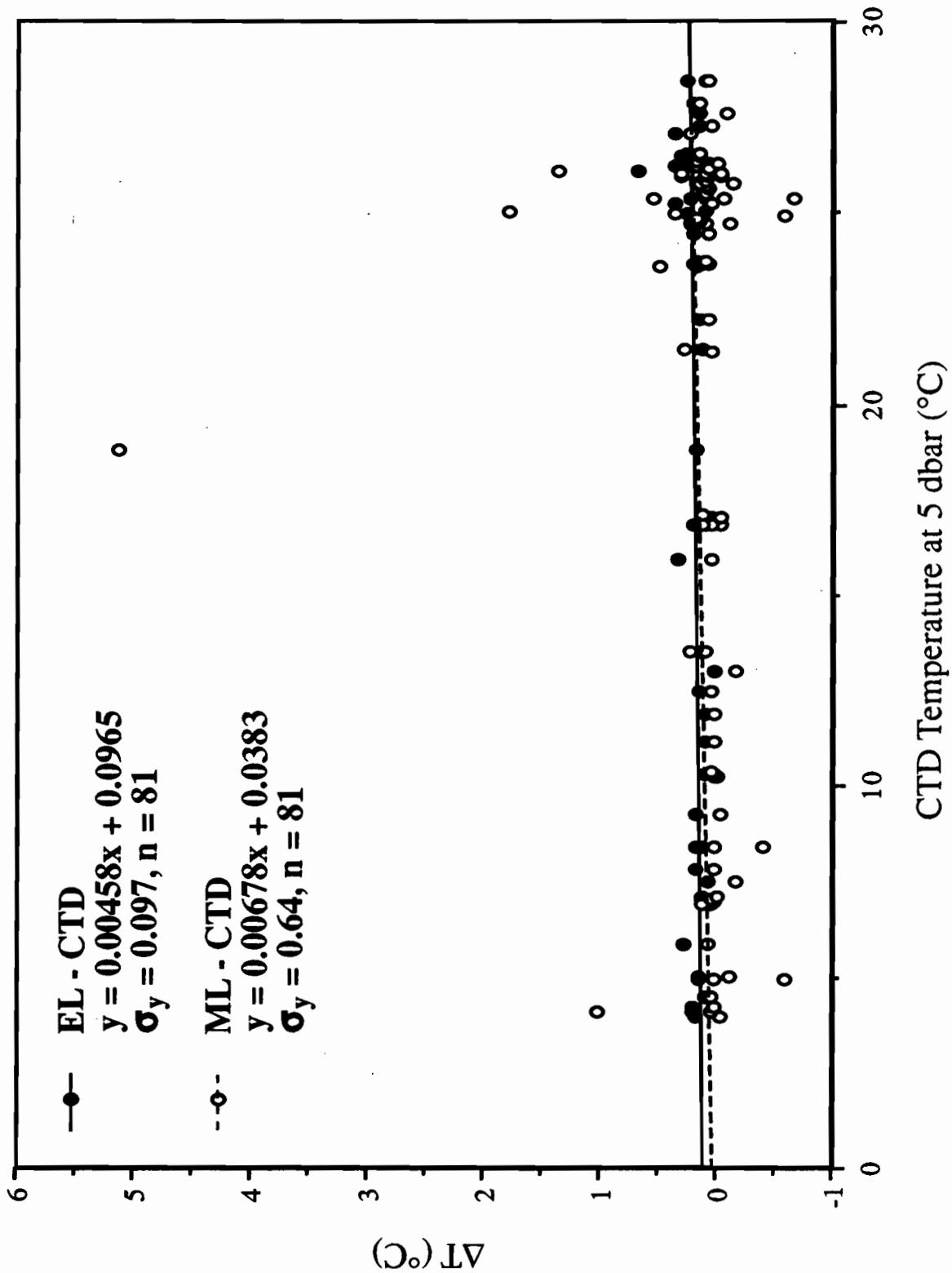


Fig. 6. Comparison of sea surface temperature data collected during RITS/CO<sub>2</sub> 1989. The difference between contemporaneous electronically logged (EL) thermosalinograph temperatures and CTD temperatures is represented by a filled circle and solid line. The difference between manually logged (ML) thermosalinograph and CTD temperatures is represented by an open circle and dashed line.

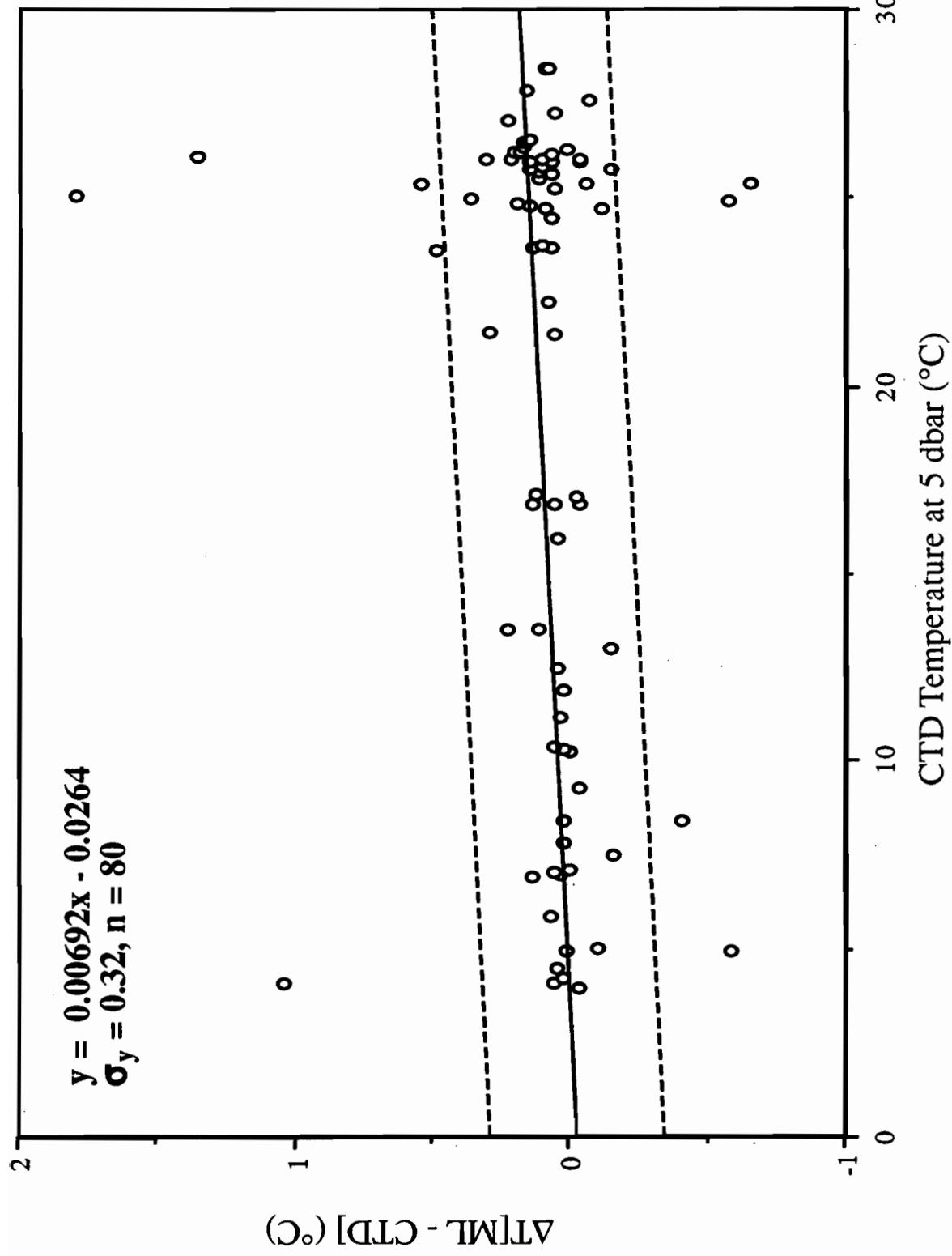


Fig. 7. Comparison of manually logged thermosalinograph temperatures with CTD temperatures for RITS/CO<sub>2</sub> 1989. One point was deleted from the original data set. Dashed lines represent the  $1\sigma_y$  deviation from the fit line (95% confidence intervals).

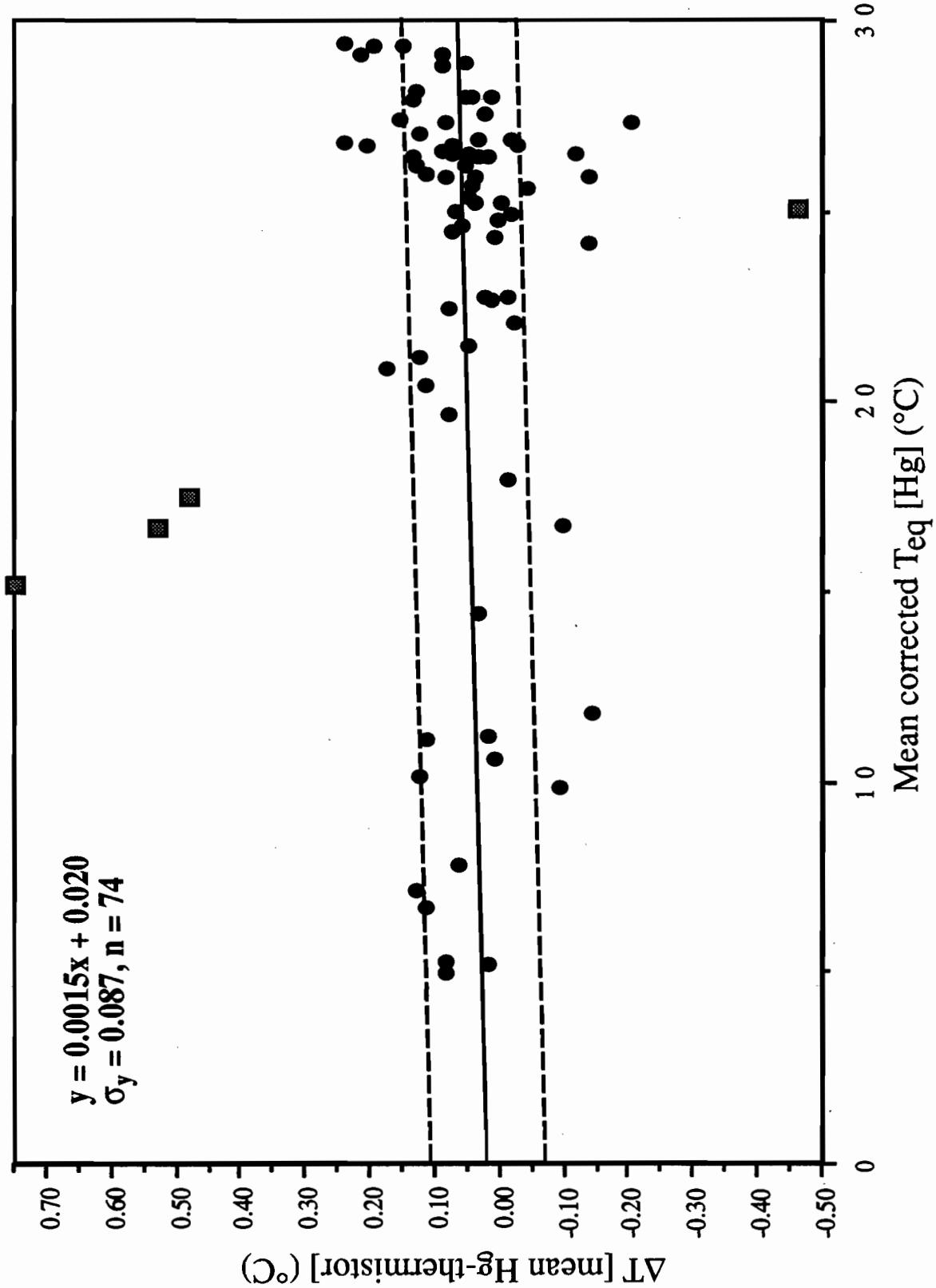


Fig. 8. Comparison of  $T_{eq}$  from thermometer and thermistor data collected during RITS/CO<sub>2</sub>, 1989. The dashed lines represent the  $1\sigma$ , deviation from the fit line.

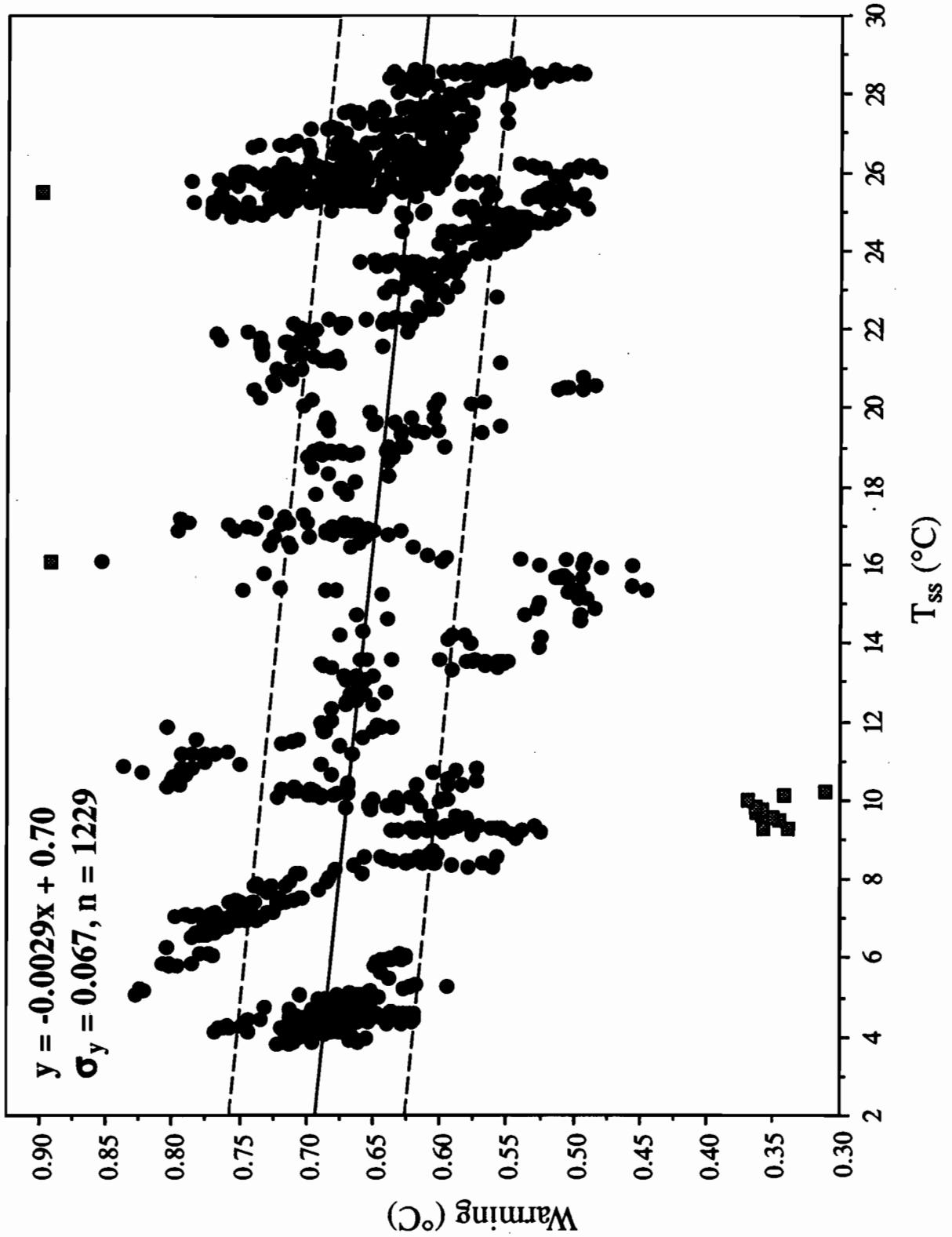
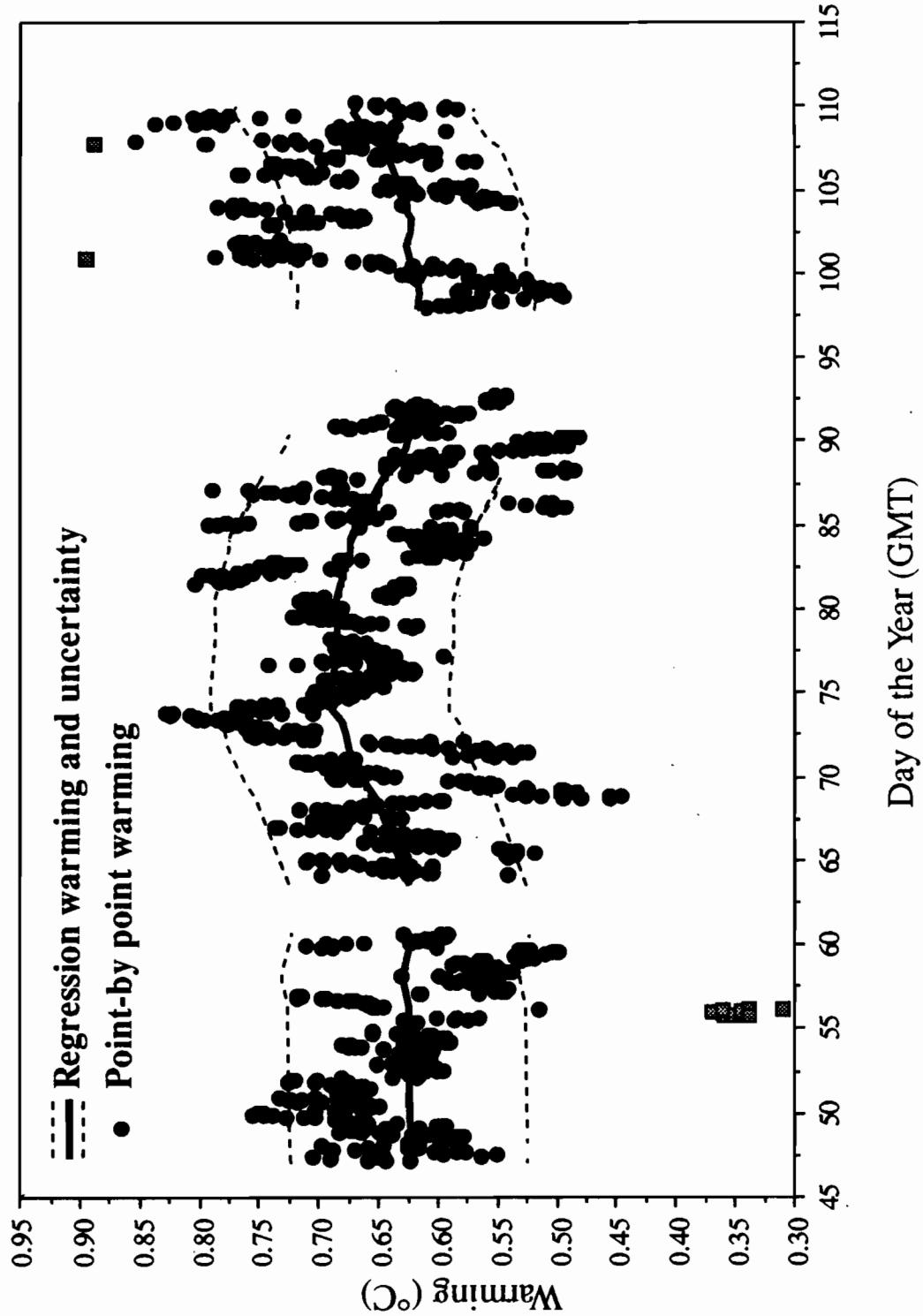


Fig. 9. Warming as a function of temperature during RITS/CO<sub>2</sub> 1989. Each point represents hourly T<sub>eq</sub> – hourly T<sub>ss</sub>. The fit line represents the regression warming. Shaded squares represent data which were discarded prior to the final regression fit.



**Fig. 10.** Comparison of warming evaluation methods for RITS/CO<sub>2</sub> 1989 by plotting time vs. warming. Hourly warming ( $T_{eq} - T_w$ ) evaluated on a point-by-point basis is represented by the solid circles. Regression warming evaluated from Figure 9 is represented by the solid line. The shaded squares are those points which were discarded when evaluating the regression of Figure 11 since they were  $> 3\sigma_y$  from the line. The  $1\sigma_y$  deviations from the regression line are represented by dashed lines.

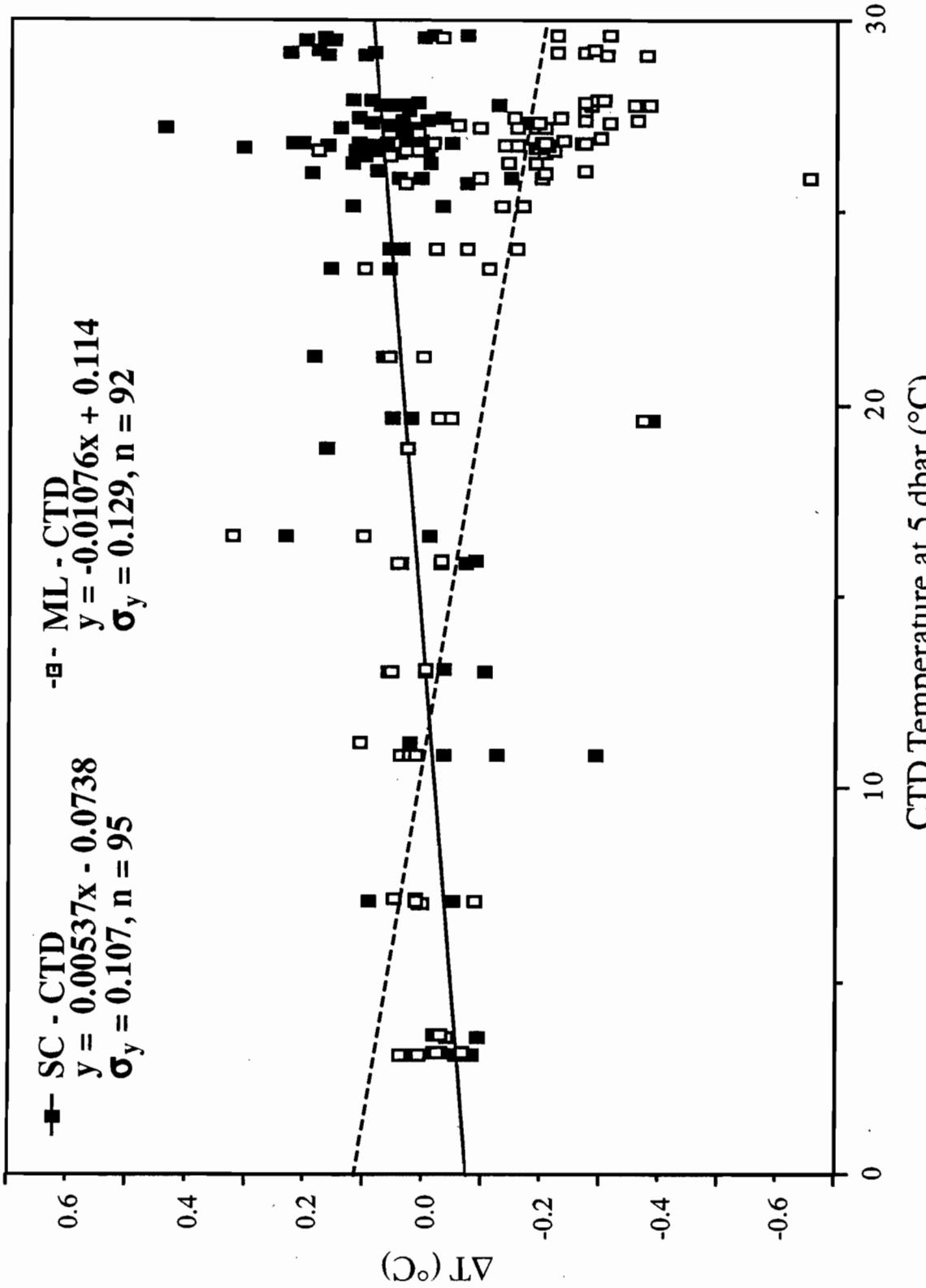


Fig. 11. Comparison of sea surface temperature data collected during RITS/CO<sub>2</sub>/EPOCS 1988. Strip chart (SC) thermosalinograph – CTD temperature is represented by a filled square and solid line. Manually logged (ML) – CTD temperature is represented by an open square and dashed line.

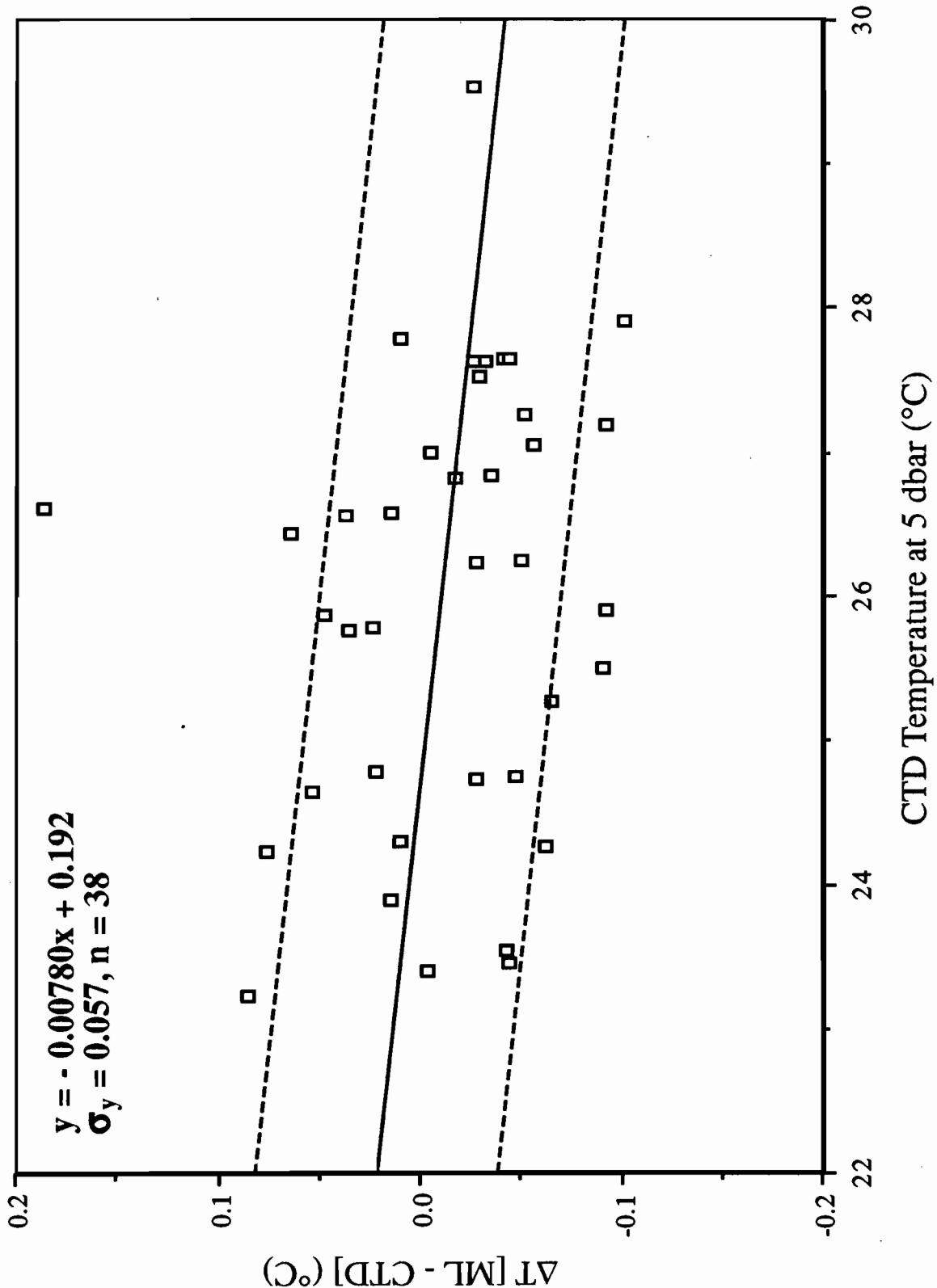


Fig. 12. Comparison of manually logged thermosalinograph temperatures with CTD temperatures for EPOCS 1988. Dashed lines represent the  $1\sigma_y$  deviation from the fit line (95% confidence intervals).

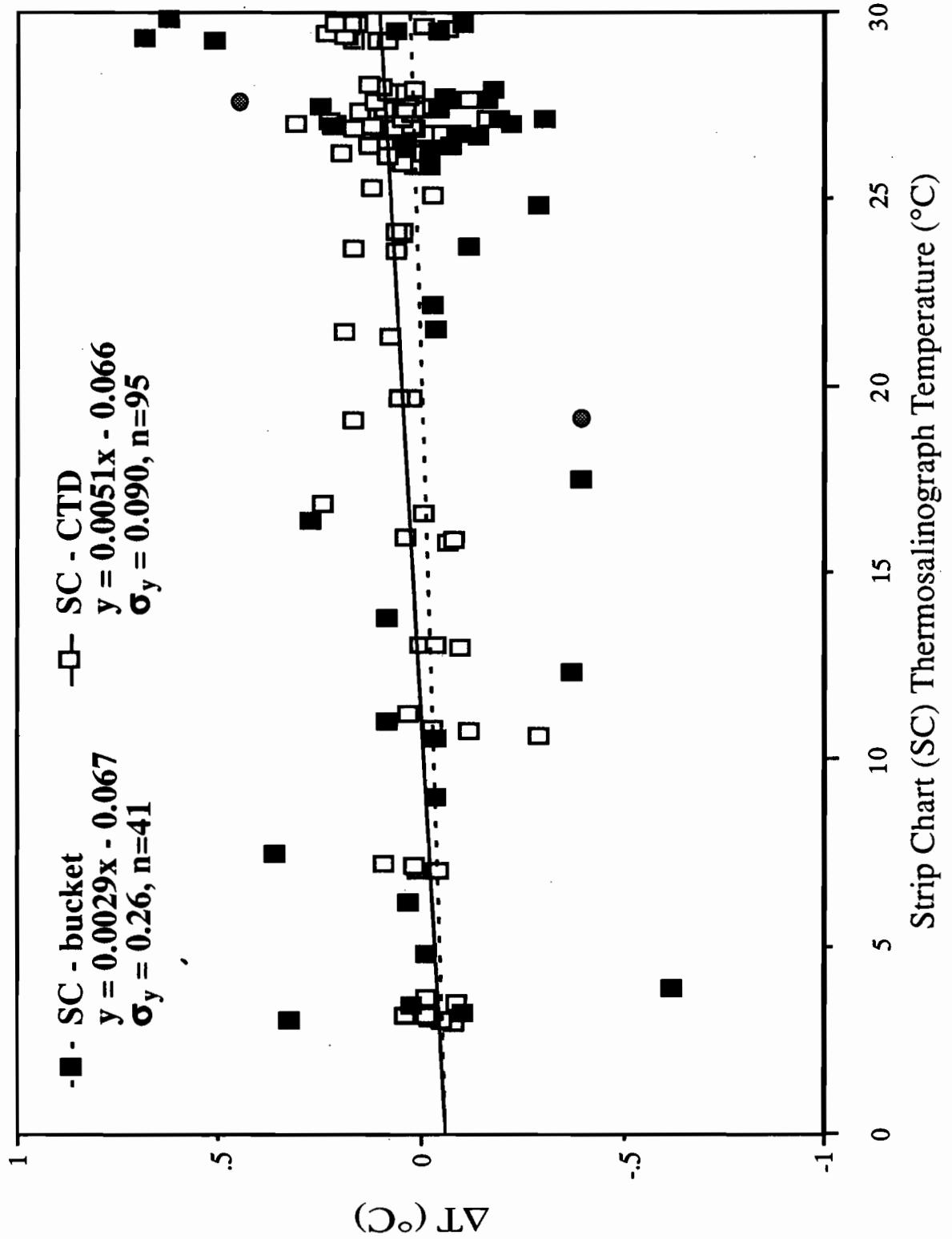


Fig. 13. Comparison of sea surface temperature data collected during RITS/CO<sub>2</sub>/EPOCS 1988. Open squares and a solid line represent the strip chart (SC) thermosalinograph – CTD temperature data. Filled squares and dashed line represent the SC – bucket temperature.

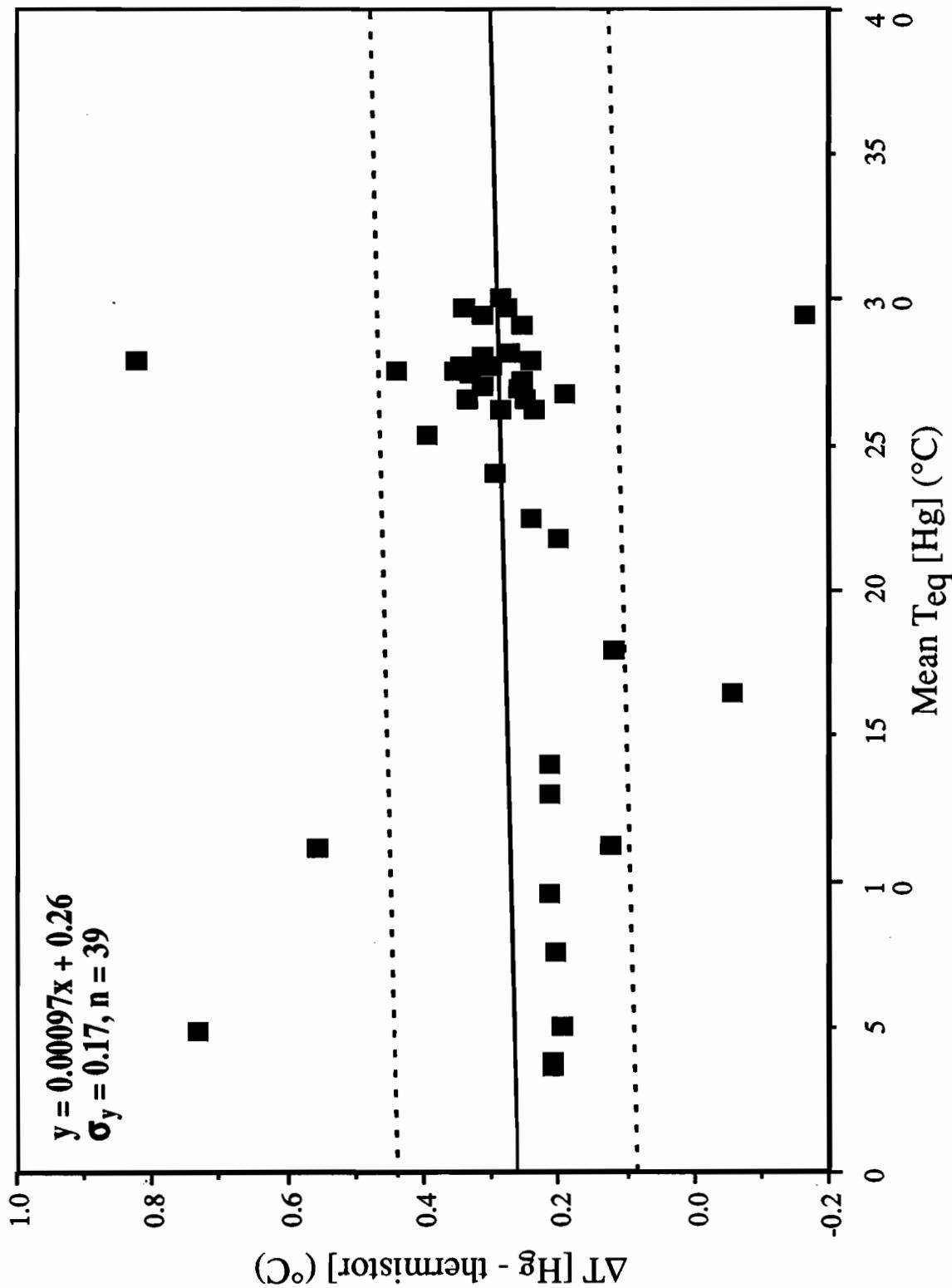


Fig. 14. Comparison of equilibrator temperature from thermometer and thermistor data collected during RITS/CO<sub>2</sub>/EPOCS 1988.

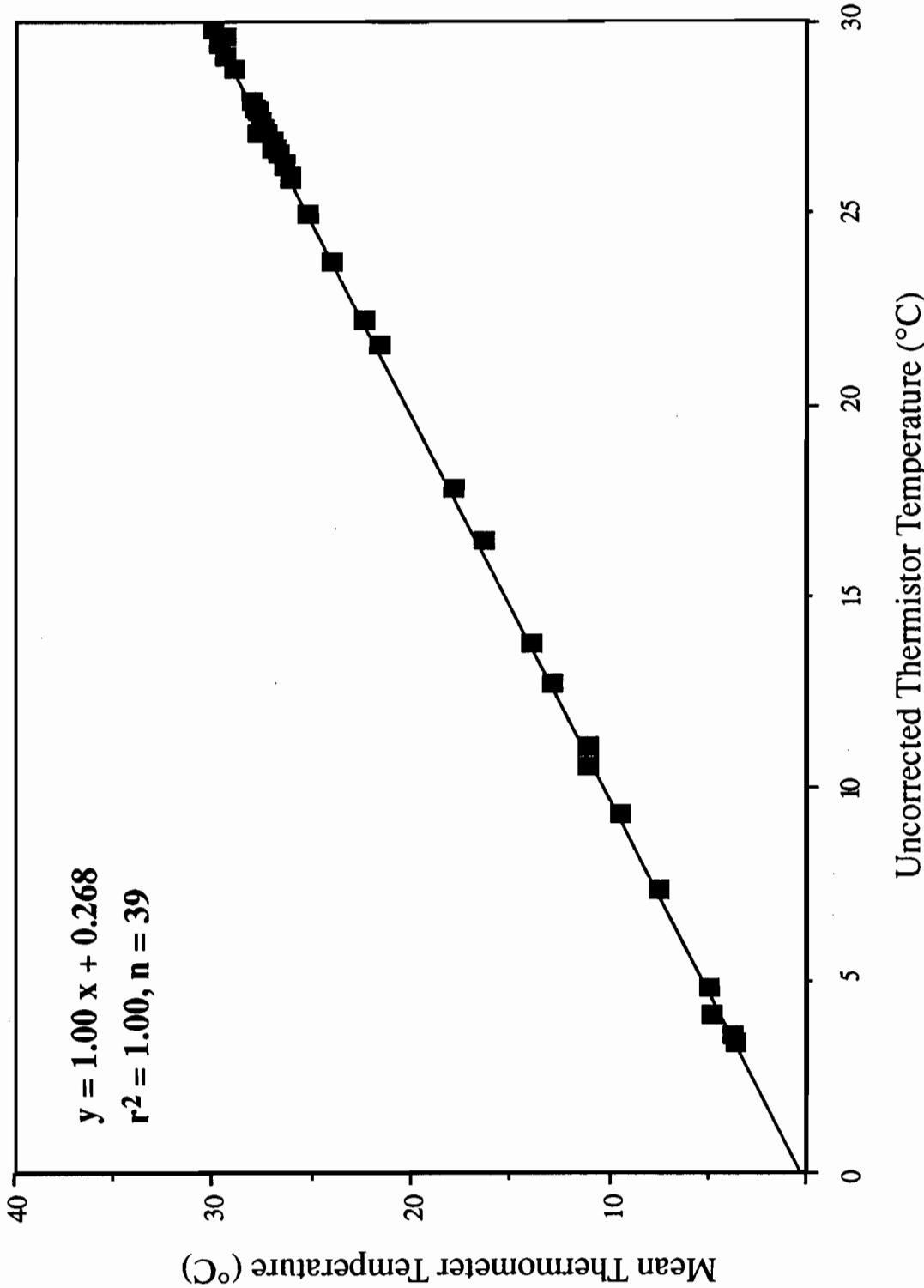


Fig. 15. Calibration of RTTS/CO<sub>2</sub> EPOCS 1988 equilibrator temperatures. The thermistor temperatures are plotted against the mean temperature from the mercury thermometers for times of coincident measurements. The line fit through these data was used to correct the thermistor temperatures.

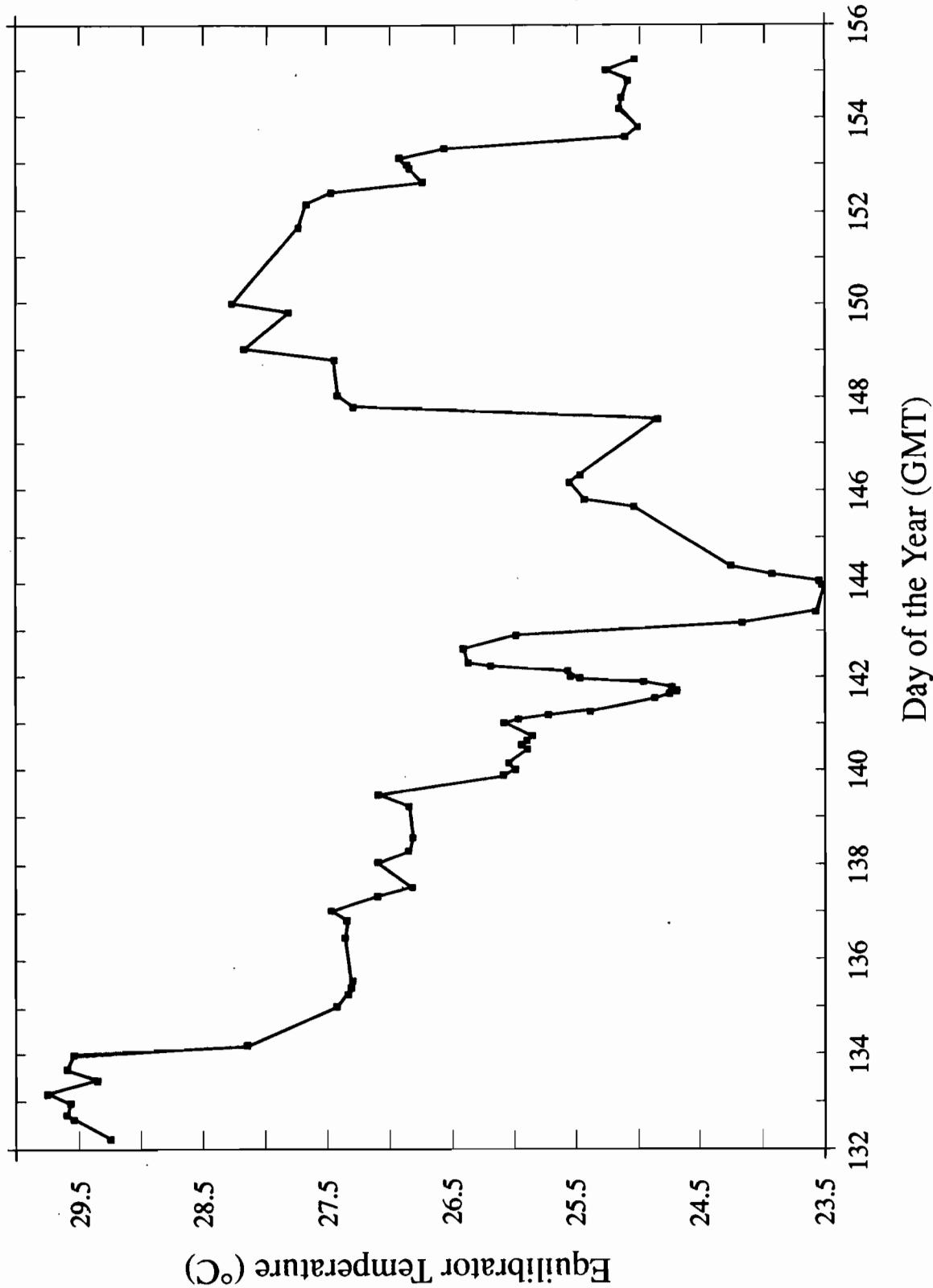


Fig. 16. Equilibrator temperatures as a function of time for EPOCS 1988. The points indicate the manually recorded equilibrator temperature as read from a mercury thermometer. The line is the interpolated hourly record.

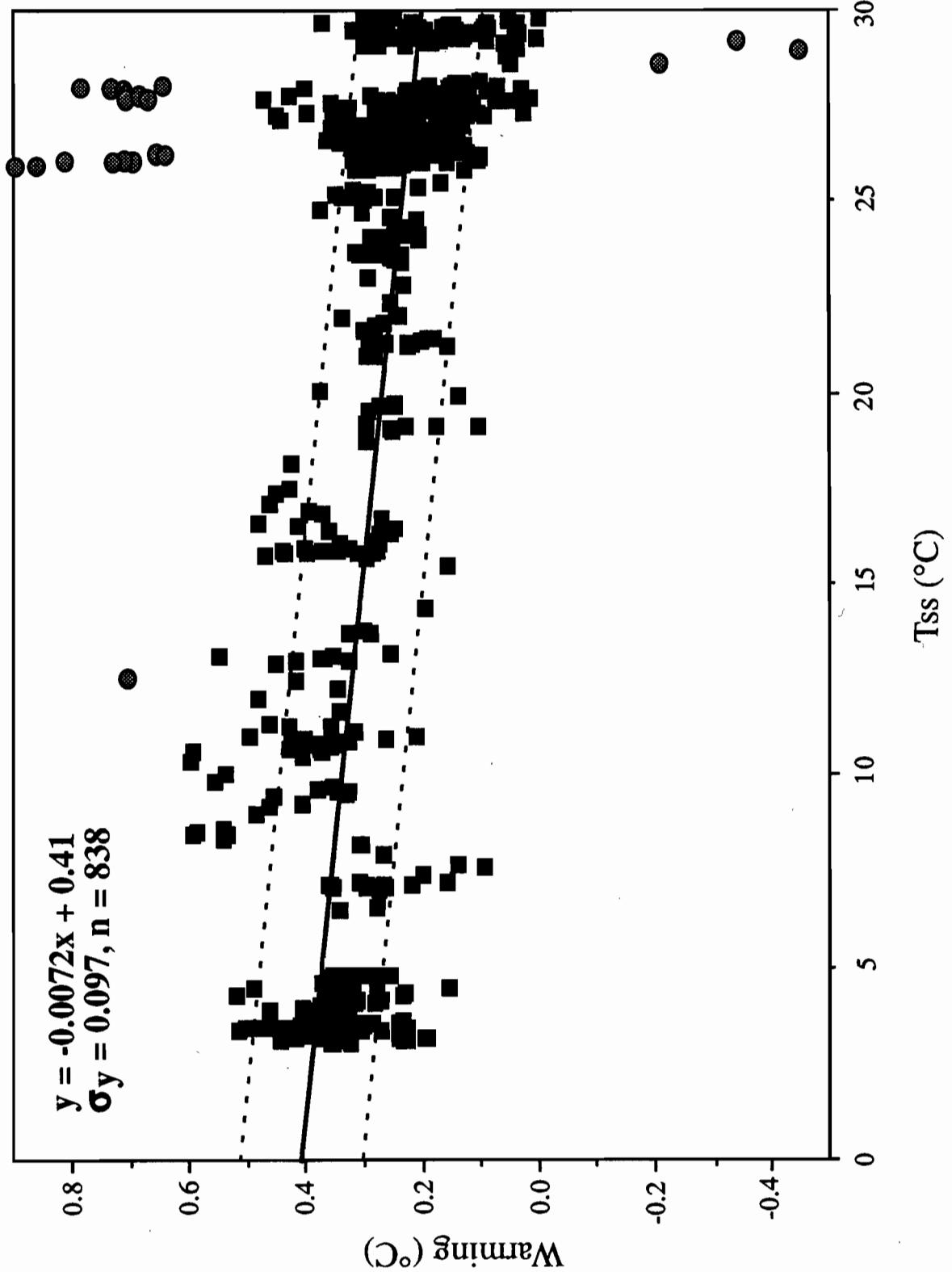
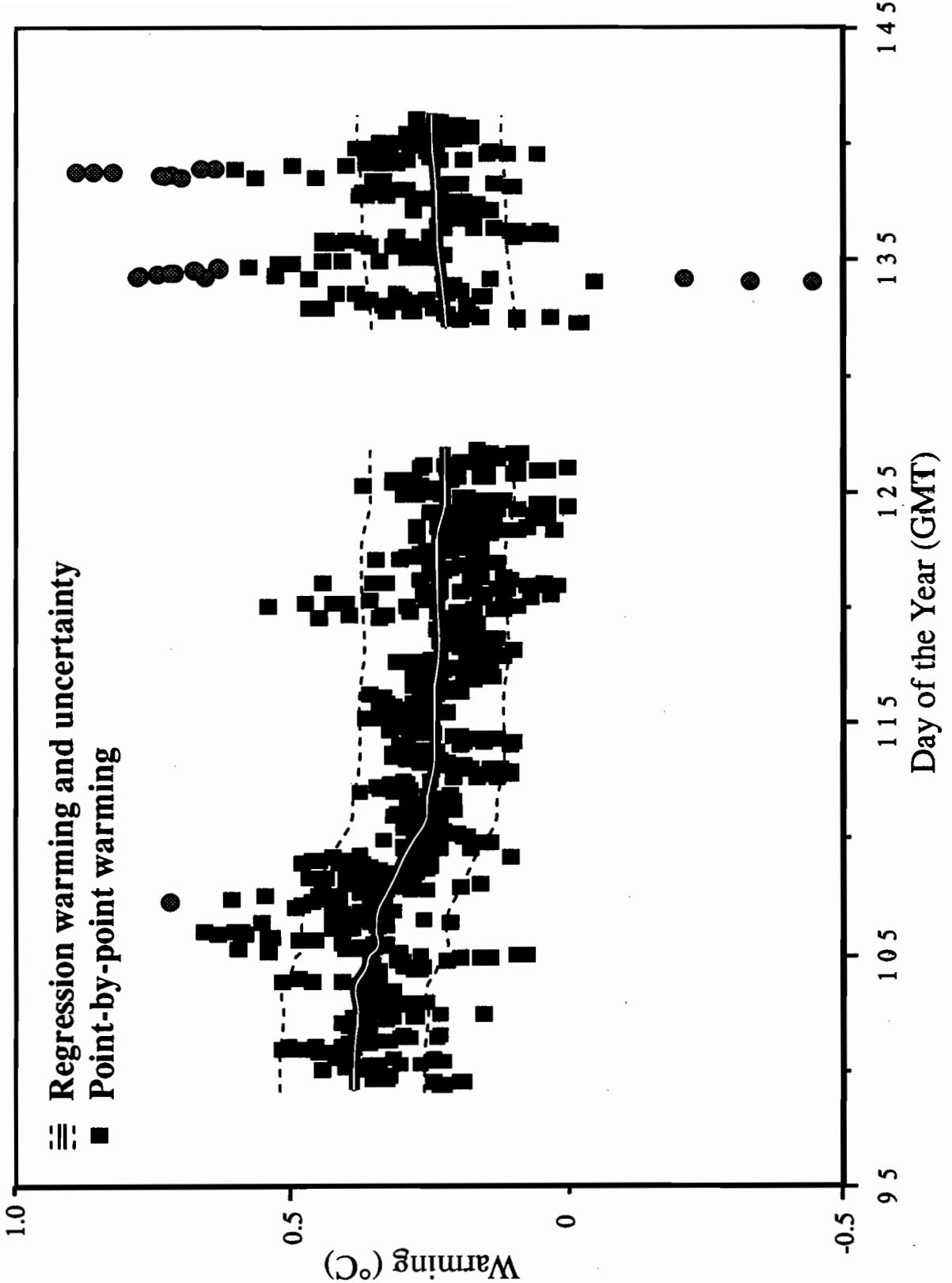


Fig. 17. Warming as a function of temperature during RITS/CO<sub>2</sub>/EPOCS 1988. Each point represents hourly  $T_{\text{eq}}$  – hourly  $T_{\text{ss}}$ . The fit line represents the regression warming. The  $\sigma_y$  deviations from the regression line are represented by dashed lines. The shaded circles are those points which were discarded when evaluating the regression since they were  $>3\sigma_y$  from the line.



**Fig. 18.** Comparison of warming evaluation methods for RITS/CO<sub>2</sub>/EPOCS 1988 by plotting time vs. warming. Hourly warming ( $T_{eq} - T_w$ ) evaluated on a point-by-point basis is represented by solid squares. Warming evaluated from the regression fit of Figure 17 is represented by the solid line. The  $1\sigma_y$  deviations from the regression line are represented by dotted lines. Points discarded when fitting the final regression line are shown as shaded circles.

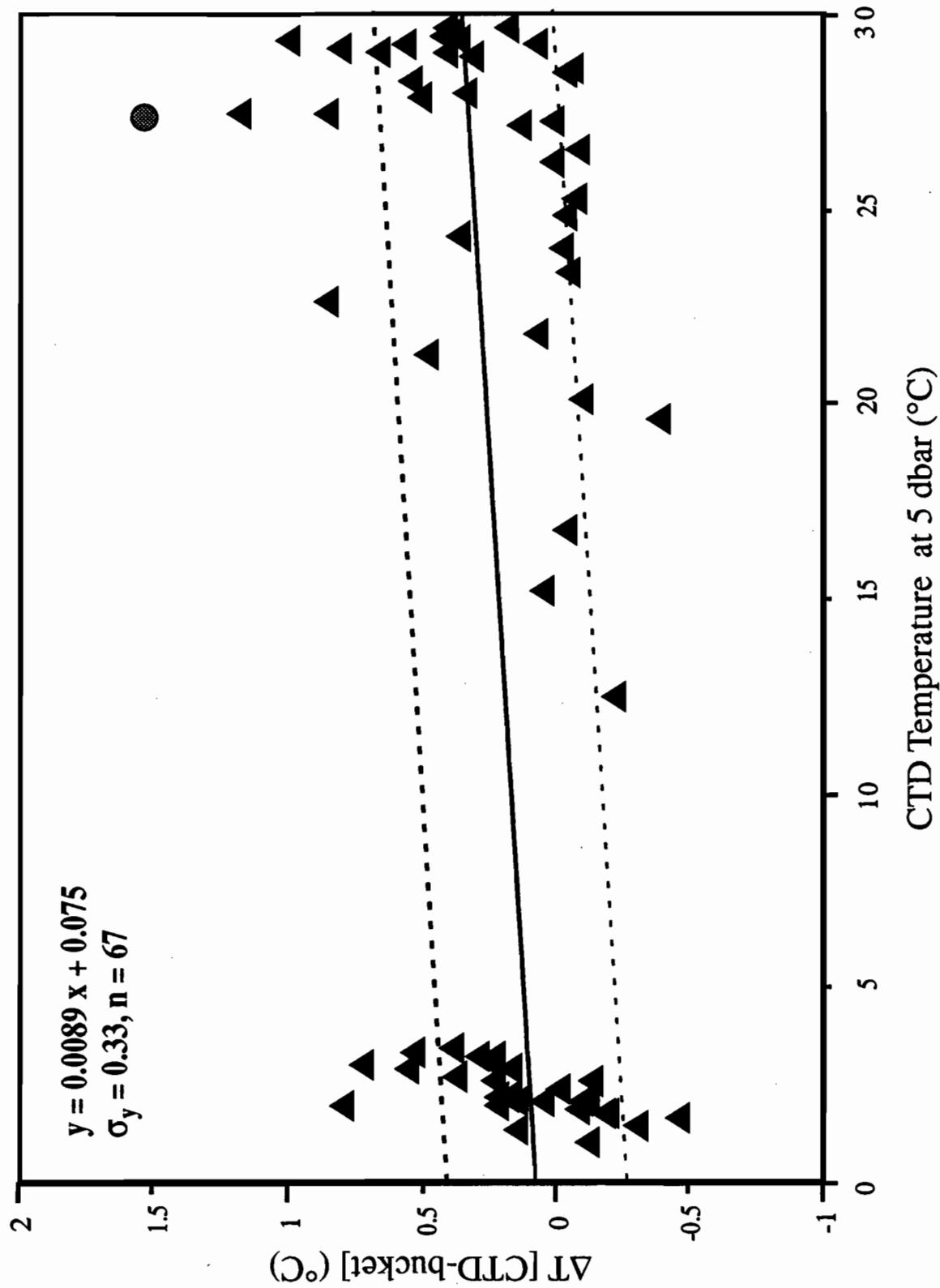


Fig. 19. Comparison of sea surface temperature from bucket and CTD data collected during SAGA II 1987. The  $1\sigma$  deviations from the regression line are represented by dashed lines.

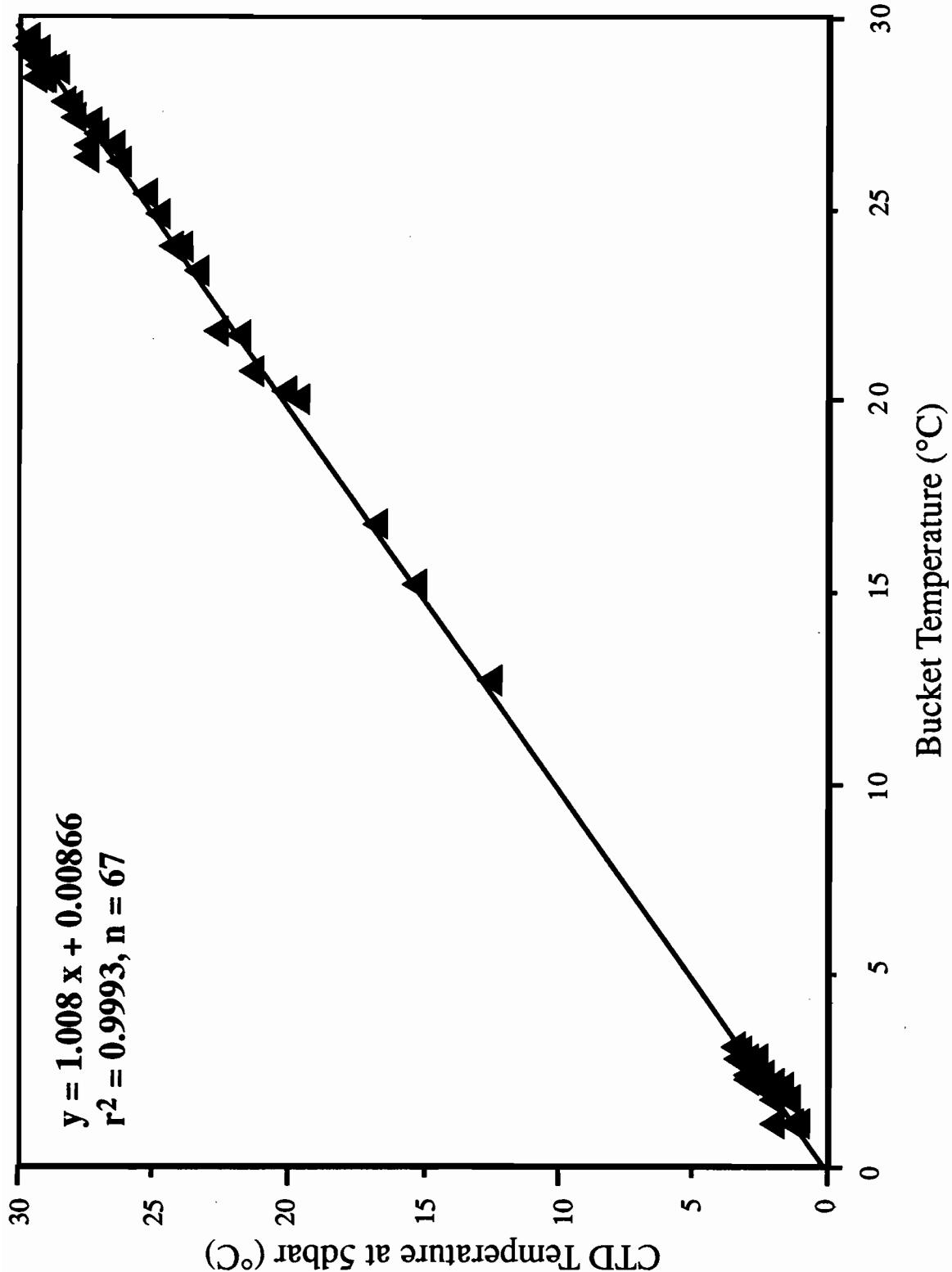


Fig. 20. Calibration of SAGA II 1987 sea surface temperature data. The bucket temperature is plotted against the CTD temperature at 5 dbar for times of coincident measurements. The line fit through these data was used to correct the bucket temperatures.

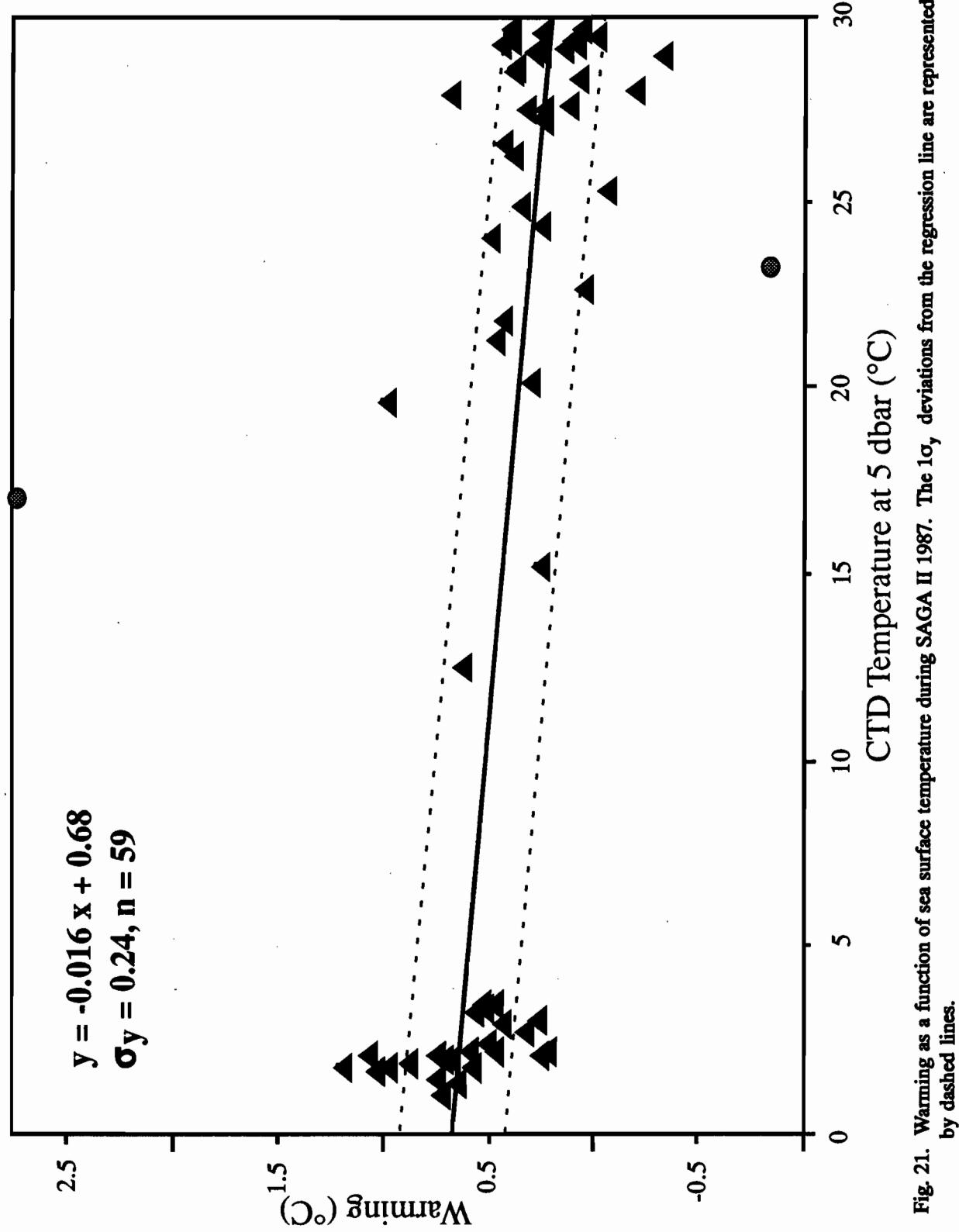


Fig. 21. Warming as a function of sea surface temperature during SAGA II 1987. The  $1\sigma$  deviations from the regression line are represented by dashed lines.

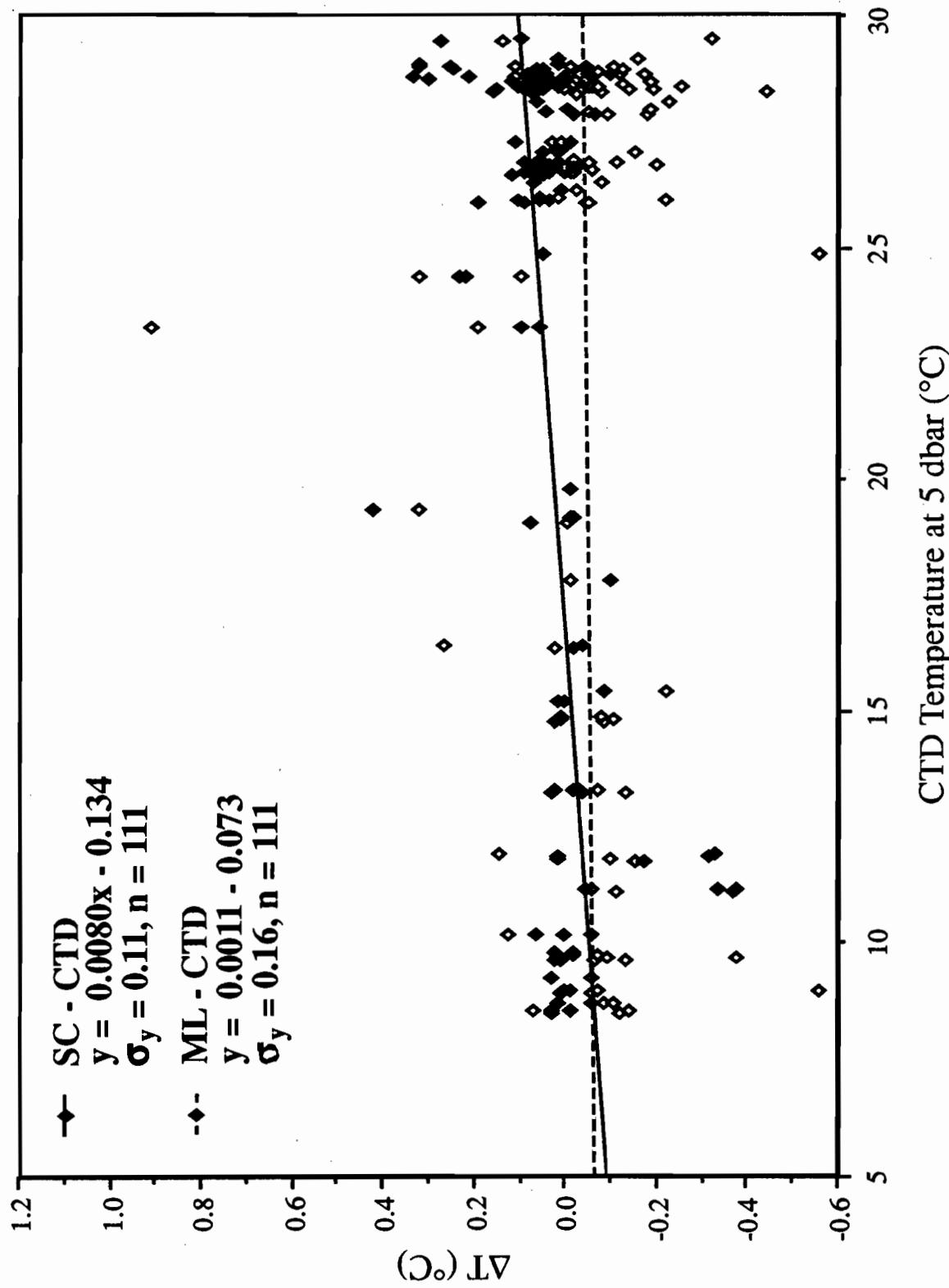


Fig. 22. Comparison of sea surface temperature data collected during RITS/CO<sub>2</sub>/TOGA 1987. Strip chart (SC) thermosalinograph -- CTD temperature is represented by a filled triangle and solid line. Manually logged (ML) -- CTD temperature is represented by an open triangle and dashed line.

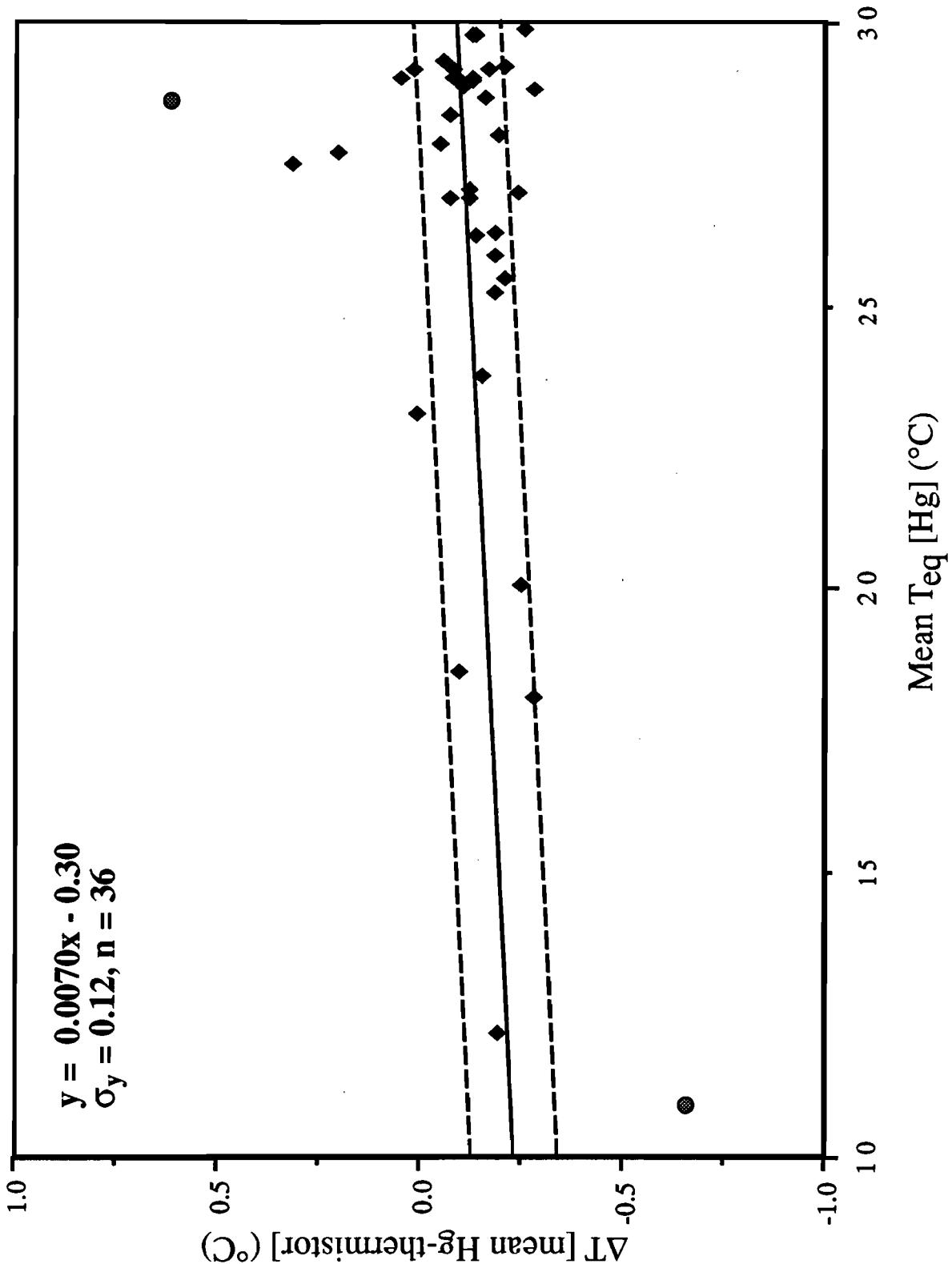


Fig. 23. Comparison of equilibrator temperatures collected from thermometer and thermistor during RITS/CO<sub>2</sub>/TOGA 1987. The two shaded circles represent data which were discarded prior to the regression line shown. The dashed lines indicate the  $1\sigma_y$  deviations from the regression line.

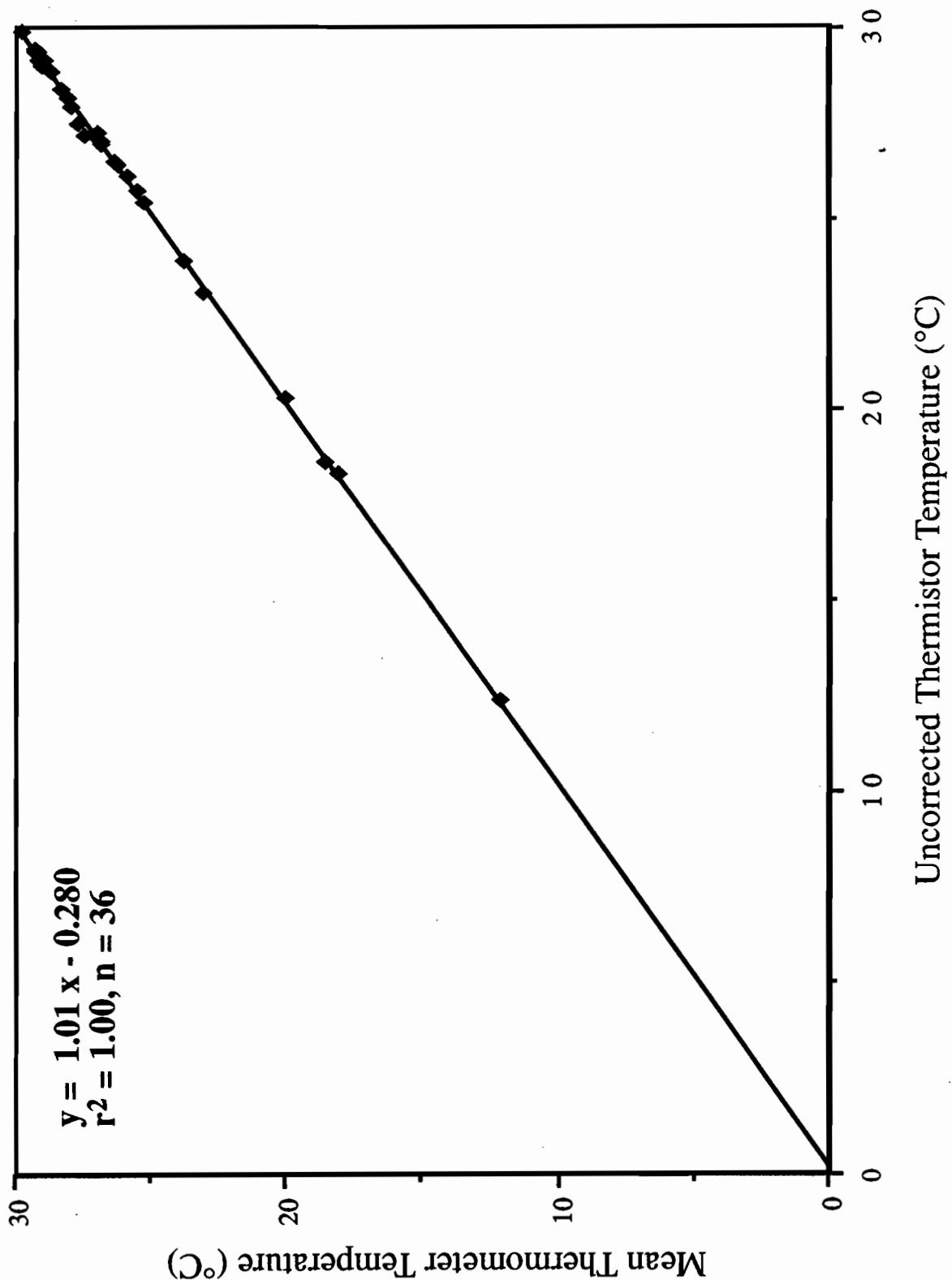


Fig. 24. Calibration of equilibrator temperature for RITS/CO<sub>2</sub>/TOGA 1987. The equation for the fit line was used to calibrate the thermistor.

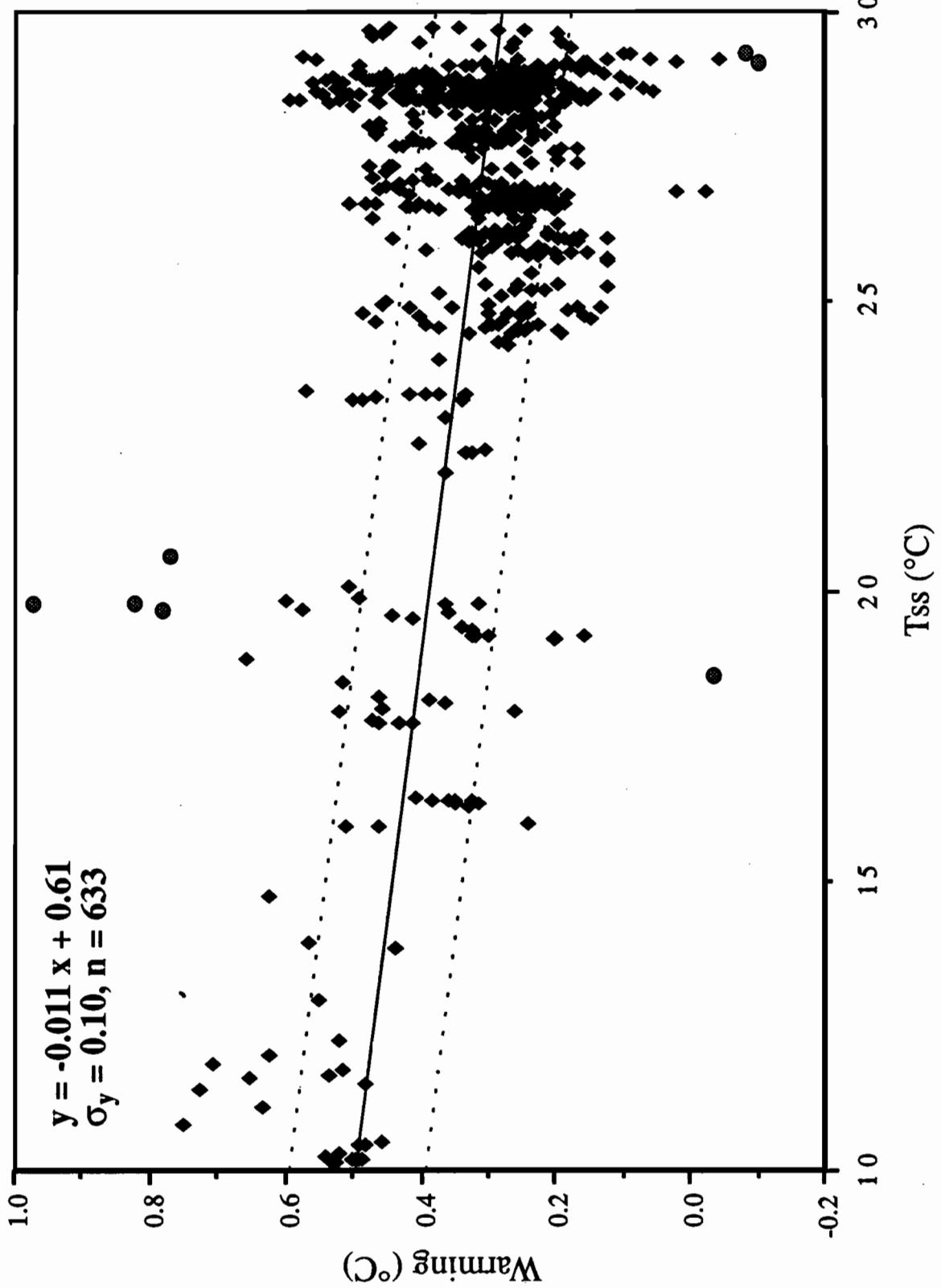
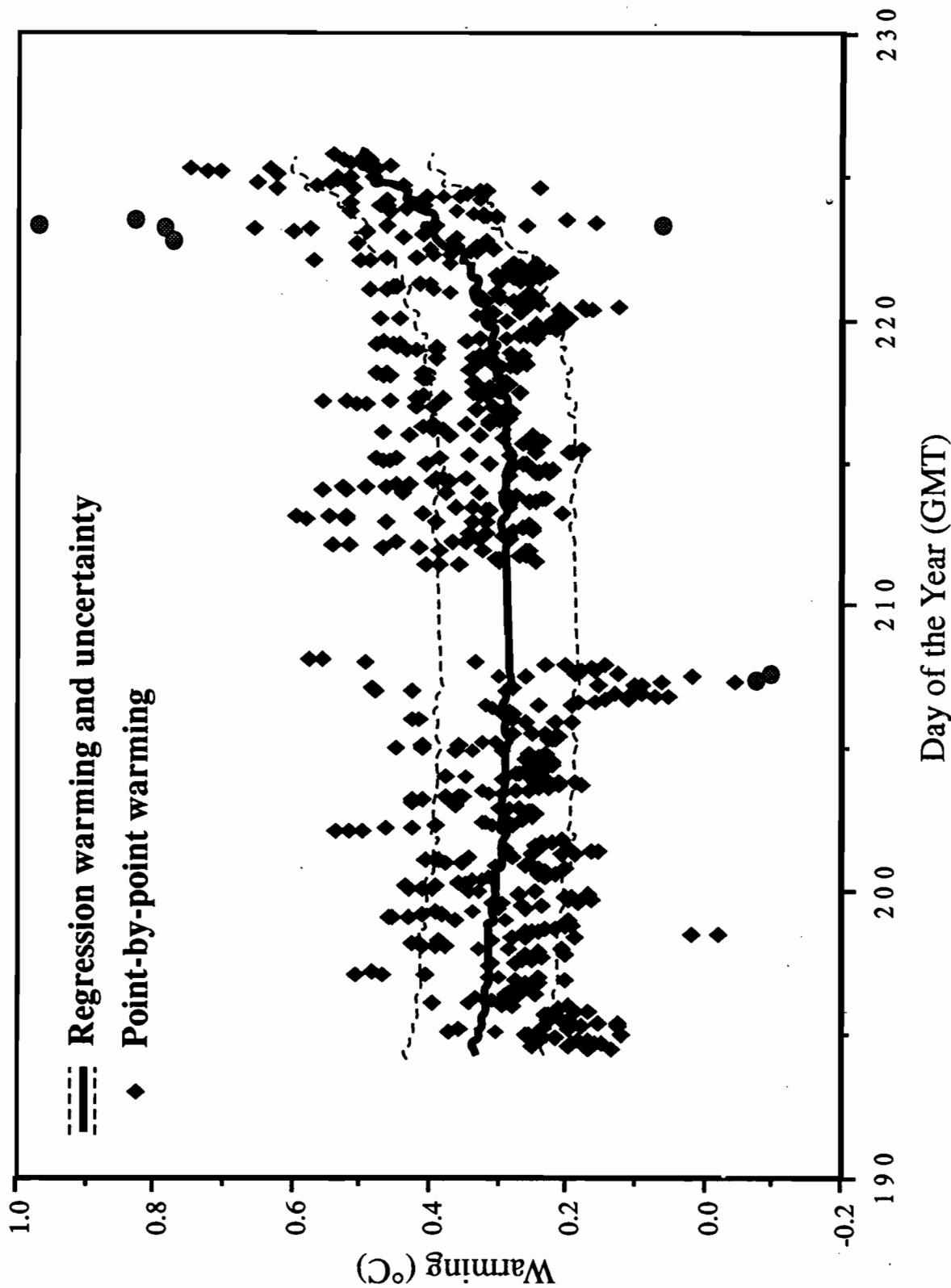


Fig. 25. Warming as a function of temperature for RITS/CO<sub>2</sub>/TOGA 1987. The shaded circles were discarded prior to fitting the regression line shown. The  $1\sigma_y$  deviations from the fit line are shown as dashed lines.



**Fig. 26.** Comparison of warming for RITS/CO<sub>2</sub>/TOGA 1987 by plotting time vs. warming. The shaded circles are the points which were discarded when fitting the line shown in Figure 25.

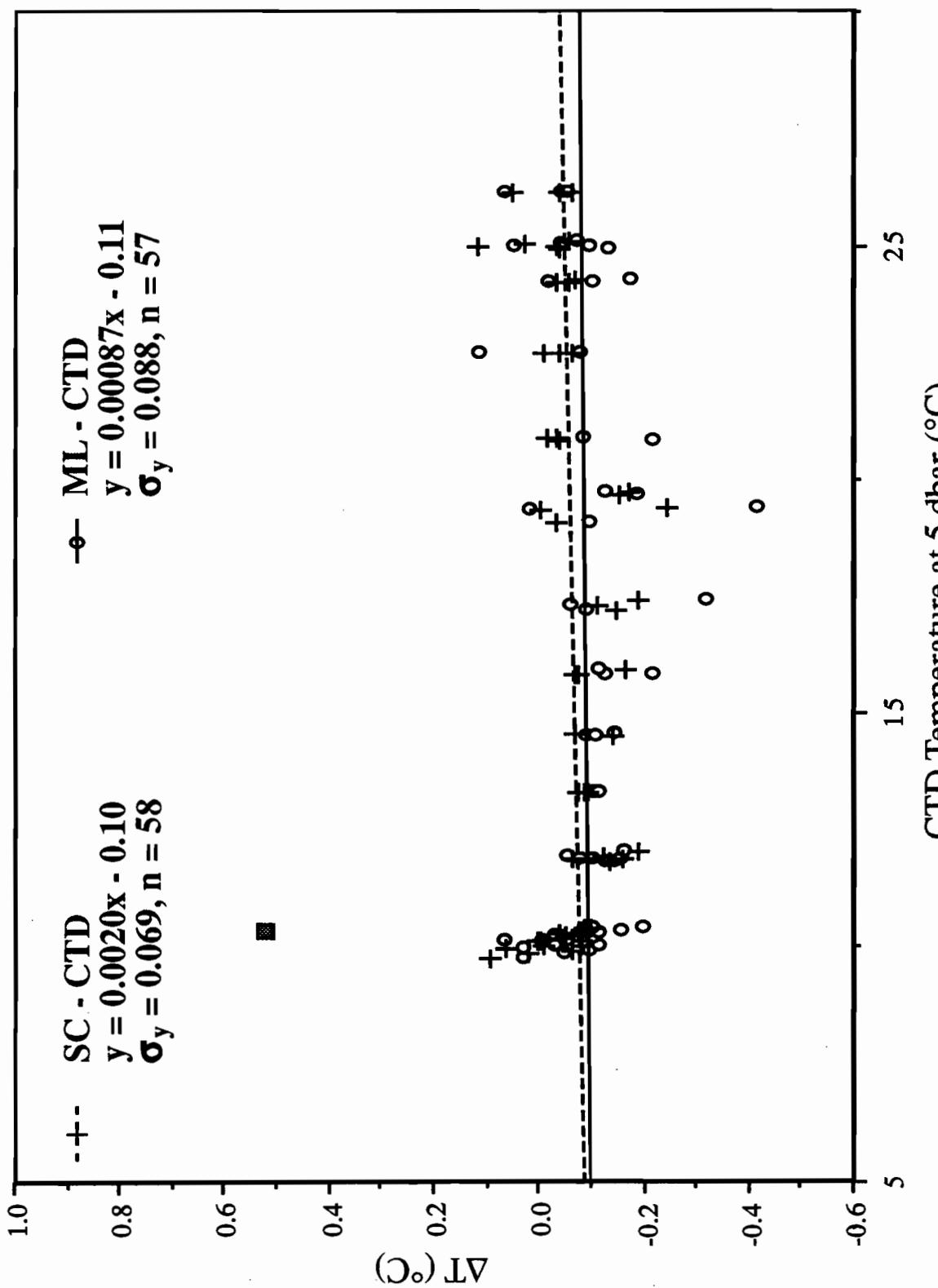


Fig. 27. Comparison of thermosalinograph temperatures data collected during RITS/CO<sub>2</sub>, 1986. Strip chart (SC) thermosalinograph – CTD temperature is represented by a cross and dashed line. Manually logged (ML) – CTD temperature is represented by an open circle and solid line. One point (shaded square) was discarded from the ML record prior to fitting the line shown.

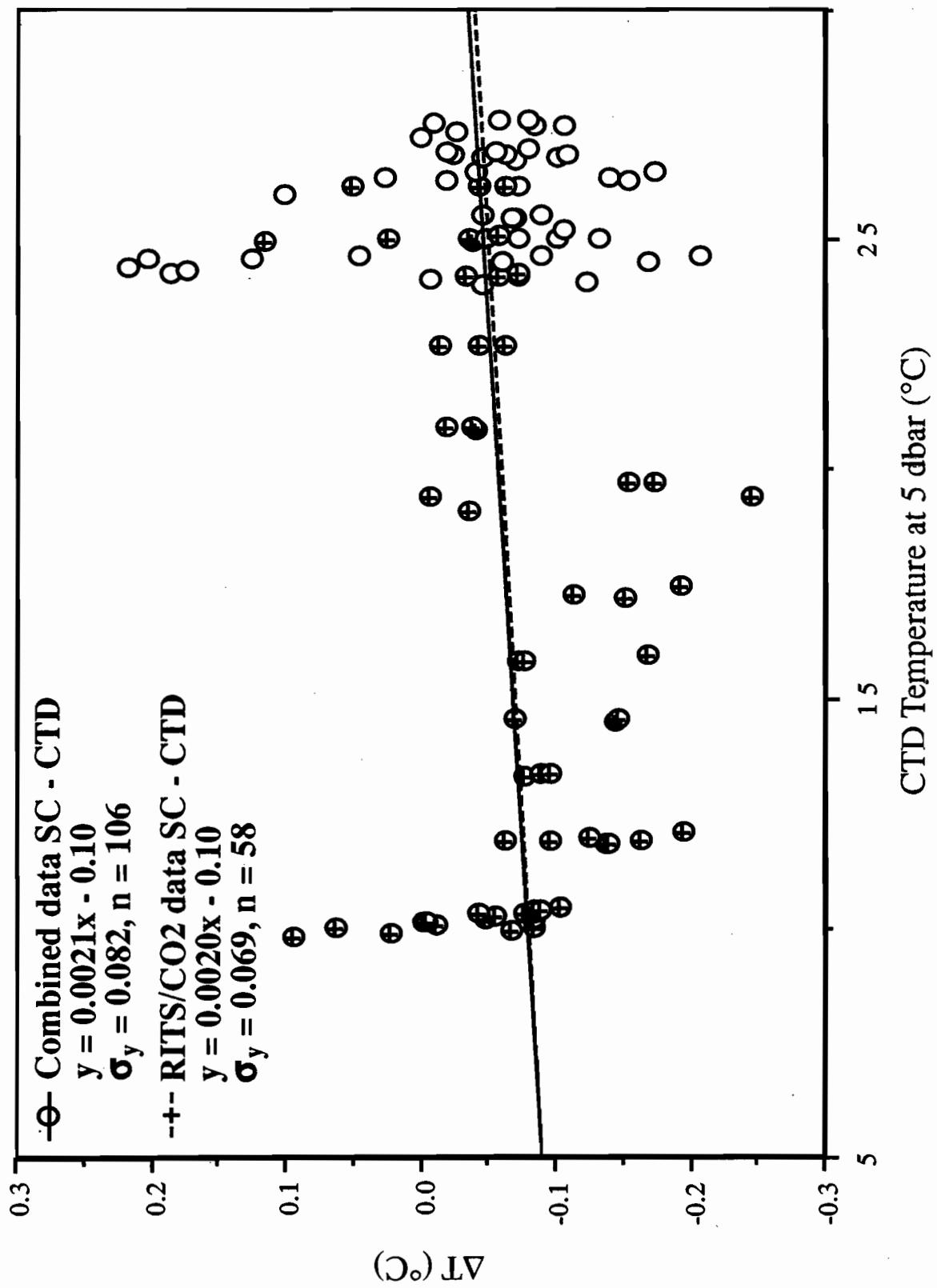
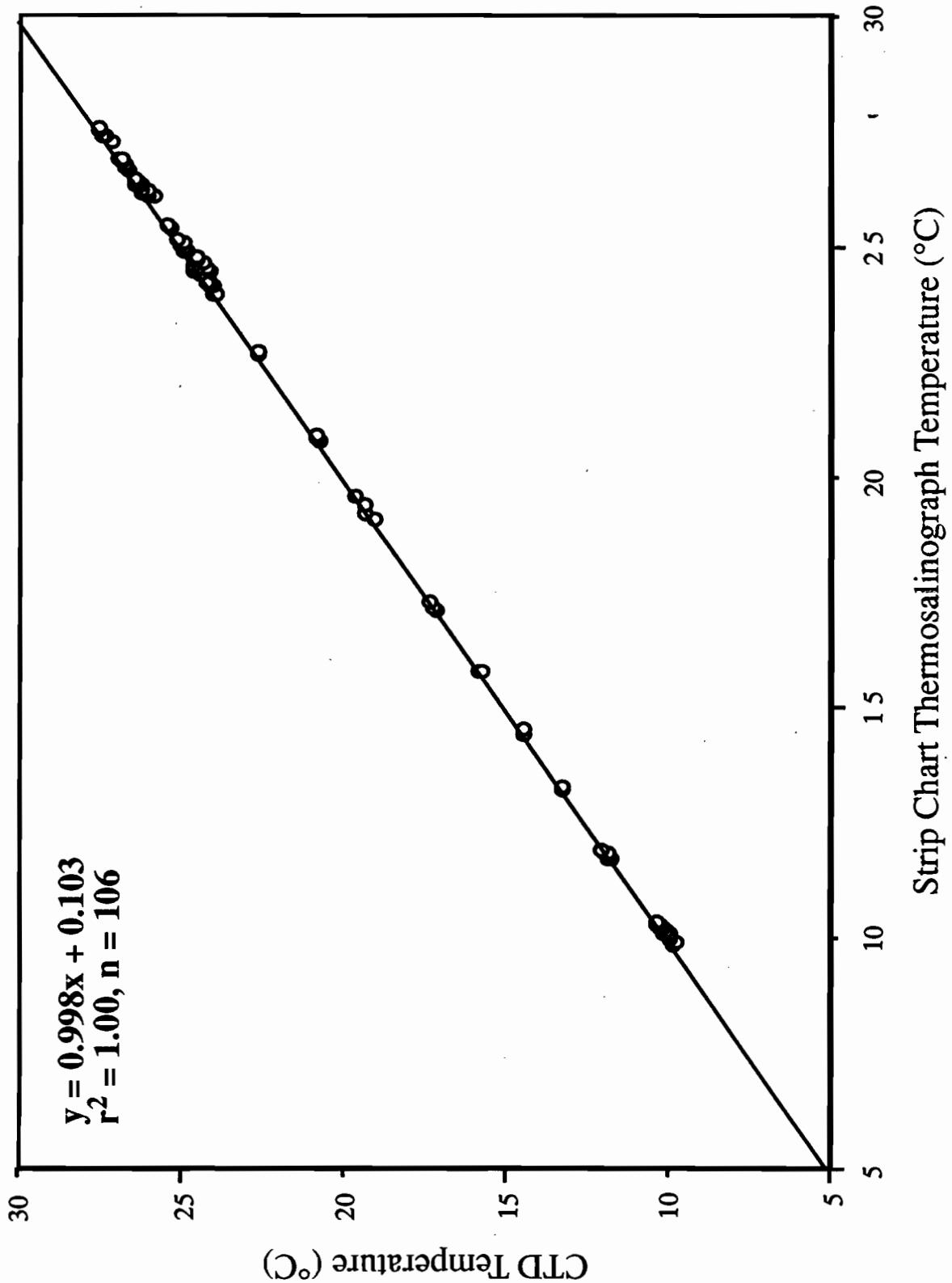


Fig. 28. Comparison of combined data for 1986 and RITS/CO<sub>2</sub> only data. Open circles and solid line indicate the combined data. Crosses and dashed line indicate the RITS/CO<sub>2</sub> data only.



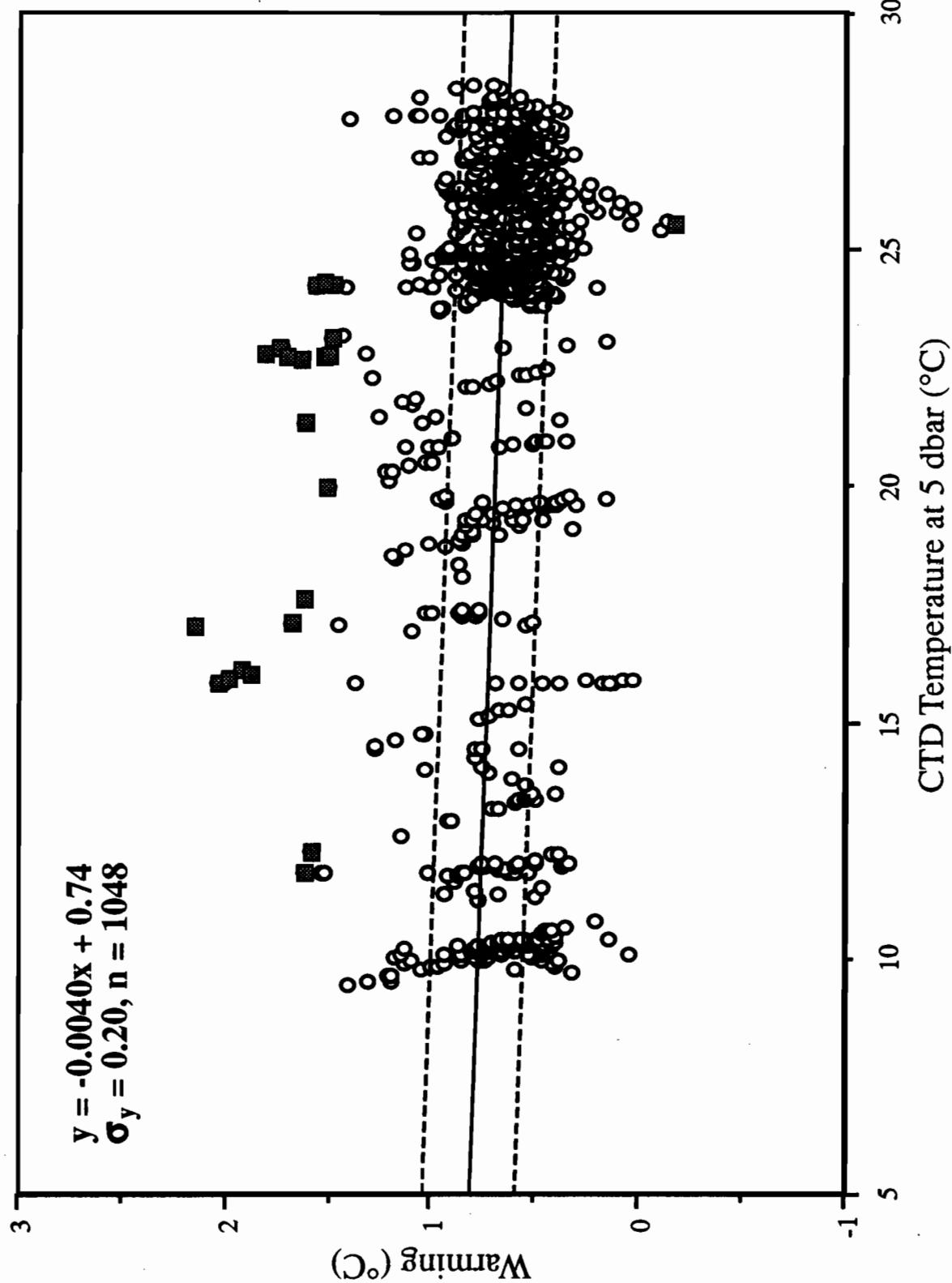


Fig. 30. Warming as a function of temperature for RITS/CO<sub>2</sub>/EPOCS 1986. The points indicated by shaded squares were discarded for the final regression fit.

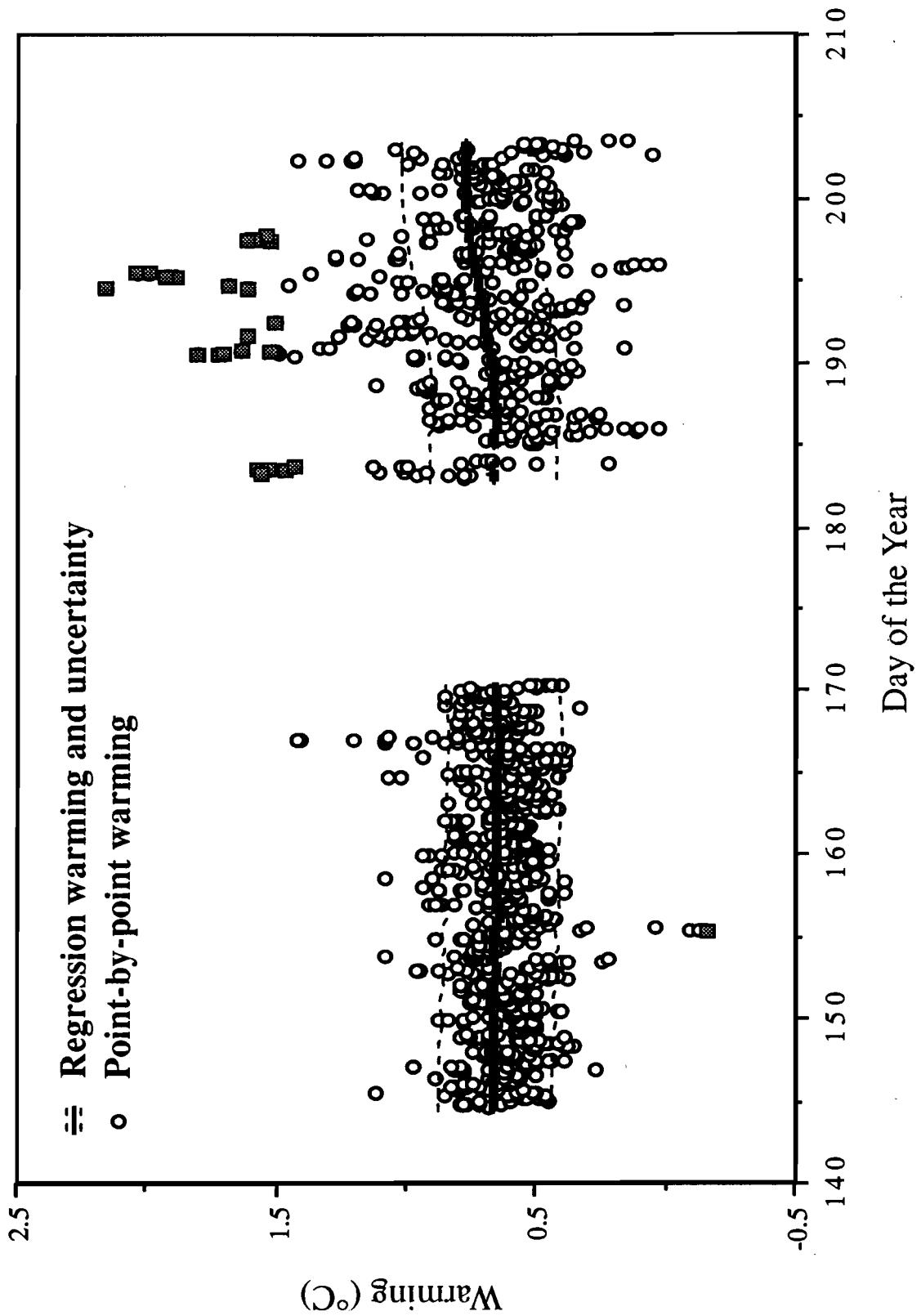


Fig. 31. Comparison of warming for RITS/CO<sub>2</sub>/EPOCS 1986 by plotting time vs. warming. Hourly point-by-point values are shown as open circles. Shaded squares were points discarded in the final regression fit. Dashed lines indicate the 1σy deviations from the fit line.

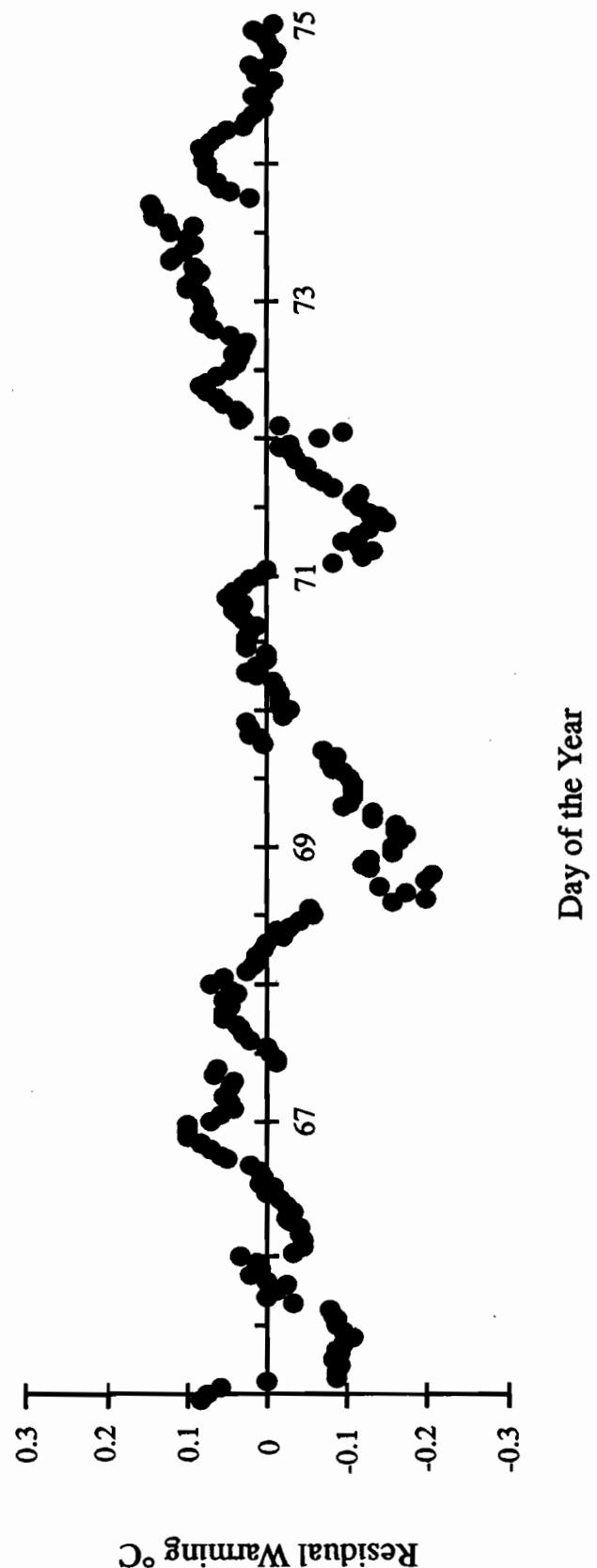


Fig. 32. Time vs. residual warming for days 65-75 of RITS/CO<sub>2</sub> 1989.



## **DATA TABLES**



**RITS/CO<sub>2</sub> 1989**

RITS/CO2 1989										
Date GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
37.708	46.775	N 125.020 W	7.67	ML	*		0.68			*
37.750	46.503	N 124.998 W	7.67	ML	*		0.68			*
37.792	46.255	N 124.997 W	7.67	ML	*		0.68			*
37.833	46.018	N 125.092 W	7.77	H	*		0.68			*
37.875	45.778	N 125.193 W	7.87	H	*		0.68			*
37.917	45.507	N 125.232 W	7.97	H	*		0.68			*
37.958	45.248	N 125.235 W	8.07	H	*		0.68			*
38.000	44.988	N 125.205 W	8.17	H	*		0.68			*
38.042	44.732	N 125.157 W	8.27	ML	*		0.68			*
38.083	44.475	N 125.073 W	8.27	ML	*		0.68			*
38.125	44.218	N 125.000 W	8.27	ML	*		0.68			*
38.167	43.953	N 125.008 W	8.27	ML	*		0.68			*
38.208	43.690	N 125.008 W	8.27	ML	*		0.68			*
38.250	43.435	N 125.013 W	8.27	ML	*		0.68			*
38.292	43.177	N 125.002 W	8.27	ML	*		0.68			*
38.333	42.927	N 125.050 W	9.86	ML	*		0.67			*
38.375	42.667	N 125.002 W	9.96	ML	*		0.67			*
38.417	42.403	N 125.008 W	9.96	ML	*		0.67			*
38.458	42.140	N 125.012 W	9.96	ML	*		0.67			*
38.500	41.873	N 124.998 W	9.96	ML	*		0.67			*
38.542	41.618	N 124.977 W	9.96	ML	*		0.67			*
38.583	41.365	N 124.993 W	9.96	ML	*		0.67			*
38.625	41.113	N 124.997 W	9.65	H	*		0.67			*
38.667	40.850	N 125.000 W	9.36	ML	*		0.67			*
38.708	40.575	N 125.008 W	9.36	ML	*		0.67			*
38.750	40.323	N 125.060 W	9.36	ML	*		0.67			*
38.792	40.105	N 124.855 W	9.36	ML	*		0.67			*
38.833	39.882	N 124.725 W	9.36	ML	*		0.67			*
38.875	39.683	N 124.610 W	9.86	ML	*		0.67			*
38.917	39.692	N 124.610 W	9.96	ML	*		0.67			*
38.958	39.700	N 124.608 W	9.96	ML	*		0.67			*
39.000	39.518	N 124.503 W	9.96	ML	*		0.67			*
39.042	39.273	N 124.380 W	9.96	ML	*		0.67			*
39.083	39.030	N 124.262 W	8.67	ML	*		0.67			*
39.125	38.783	N 124.143 W	8.67	ML	*		0.67			*
39.167	38.550	N 124.017 W	8.67	ML	*		0.67			*
39.208	38.315	N 123.882 W	8.67	ML	*		0.67			*
39.250	38.080	N 123.787 W	8.67	ML	*		0.67			*
39.292	37.848	N 123.672 W	8.67	ML	*		0.67			*
39.333	37.615	N 123.560 W	8.96	ML	*		0.67			*
39.375	37.385	N 123.430 W	12.24	ML	*		0.66			*
39.417	37.148	N 123.313 W	12.24	ML	*		0.66			*
39.458	36.912	N 123.188 W	12.24	ML	*		0.66			*
39.500	36.692	N 123.057 W	11.94	ML	*		0.66			*
39.542	36.453	N 122.945 W	11.94	ML	*		0.66			*
39.583	36.242	N 122.783 W	11.94	ML	*		0.66			*
39.625	36.005	N 122.672 W	11.94	ML	*		0.66			*
39.667	35.777	N 122.557 W	11.65	ML	*		0.67			*
39.708	35.687	N 122.492 W	11.65	H	*		0.67			*
39.750	35.703	N 122.497 W	11.65	ML	*		0.67			*

Date GMT	Latitude	Longitude	RITS/CO2 1989							Point-by-point	Flag
			Tss	Flag	Teq	Flag	Regr. Warming	Flag			
39.792	35.718	N 122.512	W 11.65	ML		*	0.67				*
39.833	35.723	N 122.508	W 11.35	ML		*	0.67				*
39.875	35.613	N 122.378	W 11.35	ML		*	0.67				*
39.917	35.457	N 122.220	W 10.85	ML		*	0.67				*
39.958	35.338	N 122.118	W 11.05	ML		*	0.67				*
40.000	35.215	N 122.017	W 11.05	ML		*	0.67				*
40.042	35.093	N 121.912	W 11.05	ML		*	0.67				*
40.083	34.982	N 121.793	W 11.05	ML		*	0.67				*
40.125	34.867	N 121.670	W 11.05	ML		*	0.67				*
40.167	34.767	N 121.573	W 11.05	ML		*	0.67				*
40.208	34.678	N 121.482	W 11.05	ML		*	0.67				*
40.250	34.597	N 121.405	W 11.05	ML		*	0.67				*
40.292	34.517	N 121.330	W 11.05	ML		*	0.67				*
40.333	34.423	N 121.242	W 11.05	ML		*	0.67				*
40.375	34.357	N 121.178	W 11.05	ML		*	0.67				*
40.417	34.287	N 121.110	W 11.05	ML		*	0.67				*
40.458	34.203	N 121.017	W 11.05	ML		*	0.67				*
40.500	34.110	N 120.915	W 11.05	ML		*	0.67				*
40.542	34.005	N 120.792	W 11.35	ML		*	0.67				*
40.583	33.865	N 120.642	W 11.38	H		*	0.67				*
40.625	33.780	N 120.397	W 11.41	H		*	0.67				*
40.667	33.682	N 120.132	W 11.45	ML		*	0.67				*
40.708	33.582	N 119.858	W 11.45	ML		*	0.67				*
40.750	33.472	N 119.583	W 11.45	ML		*	0.67				*
40.792	33.363	N 119.305	W 11.45	ML		*	0.67				*
40.833	33.287	N 119.058	W 11.45	ML		*	0.67				*
40.875	33.240	N 118.925	W 11.45	ML		*	0.67				*
40.917	33.192	N 118.787	W 13.23	ML		*	0.66				*
40.958	33.190	N 118.780	W 13.14	ML		*	0.66				*
41.000	33.007	N 118.308	W 13.53	ML		*	0.66				*
41.042	32.908	N 118.052	W 13.04	ML		*	0.66				*
41.083	32.840	N 117.838	W 13.14	ML		*	0.66				*
41.125	32.748	N 117.598	W 13.14	ML		*	0.66				*
42.375	32.473	N 117.265	W 14.63	ML		*	0.66				*
42.417	32.235	N 117.255	W 14.92	ML		*	0.66				*
42.458	31.978	N 117.192	W 14.92	ML		*	0.66				*
42.500	31.727	N 117.130	W 14.92	ML		*	0.66				*
42.542	31.467	N 117.073	W 14.92	ML		*	0.66				*
42.583	31.207	N 117.017	W 14.92	ML		*	0.66				*
42.625	30.955	N 116.957	W 14.92	ML		*	0.66				*
42.667	30.520	N 116.873	W 14.86	H		*	0.66				*
42.708	30.382	N 116.823	W 14.80	H		*	0.66				*
42.750	30.162	N 116.760	W 14.75	H		*	0.66				*
42.792	29.907	N 116.687	W 14.68	H		*	0.66				*
42.833	29.645	N 116.628	W 14.63	ML		*	0.66				*
42.875	29.408	N 116.555	W 14.82	ML		*	0.66				*
42.917	29.263	N 116.525	W 14.82	ML		*	0.66				*
42.958	29.043	N 116.498	W 14.43	ML		*	0.66				*
43.000	29.035	N 116.490	W 15.22	ML		*	0.66				*
43.042	28.732	N 116.445	W 15.22	ML		*	0.66				*

RITS/CO2 1989												
Date GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr.	Warming	Flag	Point-by-point	Flag	
43.083	28.515	N	116.408	W	15.22	ML	*	0.66			*	
43.125	28.258	N	116.370	W	15.22	ML	*	0.66			*	
43.167	27.998	N	116.307	W	15.22	ML	*	0.66			*	
43.208	27.788	N	116.125	W	15.22	ML	*	0.66			*	
43.250	27.568	N	115.972	W	15.22	ML	*	0.66			*	
43.292	27.368	N	115.798	W	16.77	H	*	0.65			*	
43.333	27.168	N	115.620	W	16.31	ML	*	0.65			*	
43.375	26.972	N	115.443	W	16.31	ML	*	0.65			*	
43.417	26.765	N	115.282	W	16.91	ML	*	0.65			*	
43.458	26.500	N	115.100	W	16.61	ML	*	0.65			*	
43.500	26.313	N	114.923	W	16.61	ML	*	0.65			*	
43.542	26.170	N	114.798	W	17.11	ML	*	0.65			*	
43.583	25.975	N	114.625	W	16.91	ML	*	0.65			*	
43.625	25.770	N	114.448	W	16.91	ML	*	0.65			*	
43.667	25.568	N	114.277	W	17.06	H	*	0.65			*	
43.708	25.362	N	114.118	W	17.21	ML	*	0.65			*	
43.750	25.175	N	113.950	W	17.21	ML	*	0.65			*	
43.792	25.058	N	113.832	W	17.21	ML	*	0.65			*	
43.833	24.862	N	113.638	W	17.51	ML	*	0.65			*	
43.875	24.705	N	113.520	W	17.51	ML	*	0.65			*	
43.917	24.700	N	113.535	W	17.70	ML	*	0.65			*	
43.958	24.705	N	113.532	W	17.70	ML	*	0.65			*	
44.000	24.645	N	113.473	W	18.10	ML	*	0.65			*	
44.042	24.458	N	113.325	W	18.30	ML	*	0.65			*	
44.083	24.253	N	113.177	W	18.30	ML	*	0.65			*	
44.125	24.043	N	113.095	W	18.30	ML	*	0.65			*	
44.167	23.907	N	112.768	W	18.23	H	*	0.65			*	
44.208	23.742	N	112.525	W	18.17	H	*	0.65			*	
44.250	23.587	N	112.323	W	18.10	H	*	0.65			*	
44.292	23.460	N	112.085	W	18.03	H	*	0.65			*	
44.333	23.330	N	111.840	W	17.97	H	*	0.65			*	
44.375	23.183	N	111.607	W	17.90	ML	*	0.65			*	
44.417	23.040	N	111.373	W	17.90	ML	*	0.65			*	
44.458	22.897	N	111.140	W	17.90	ML	*	0.65			*	
44.500	22.750	N	110.888	W	17.90	ML	*	0.65			*	
44.542	22.607	N	110.650	W	19.89	ML	*	0.64			*	
44.583	22.460	N	110.410	W	19.89	ML	*	0.64			*	
44.625	22.312	N	110.172	W	19.89	ML	*	0.64			*	
44.667	22.173	N	109.908	W	19.89	ML	*	0.64			*	
44.708	22.023	N	109.655	W	19.89	ML	*	0.64			*	
44.750	21.930	N	109.487	W	19.89	ML	*	0.64			*	
44.792	21.762	N	109.238	W	19.79	ML	*	0.64			*	
44.833	21.605	N	108.997	W	20.58	ML	*	0.64			*	
44.875	21.428	N	108.688	W	20.39	ML	*	0.64			*	
44.917	21.352	N	108.560	W	20.98	ML	*	0.64			*	
44.958	21.213	N	108.315	W	21.38	ML	*	0.64			*	
45.000	21.090	N	108.118	W	21.38	ML	*	0.64			*	
45.042	20.935	N	107.788	W	22.87	ML	*	0.63			*	
45.083	20.873	N	107.598	W	22.87	ML	*	0.63			*	
45.125	20.732	N	107.347	W	23.07	ML	*	0.63			*	

RITS/CO2 1989												
Date GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
45.167	20.505	N	107.203	W	21.48	ML		*	0.64			*
45.208	20.252	N	107.142	W	21.65	IH		*	0.64			*
45.250	20.063	N	106.968	W	21.83	IH		*	0.64			*
45.292	19.960	N	106.720	W	22.00	IH		*	0.64			*
45.333	19.865	N	106.463	W	22.17	ML		*	0.64			*
45.375	19.765	N	106.215	W	22.17	ML		*	0.64			*
45.417	19.637	N	105.973	W	22.17	ML		*	0.64			*
45.458	19.502	N	105.720	W	22.77	ML		*	0.63			*
45.500	19.395	N	105.475	W	22.77	ML		*	0.63			*
45.542	19.320	N	105.270	W	22.77	ML		*	0.63			*
47.042	18.768	N	104.403	W	26.34		26.98		0.62			0.65
47.083	18.620	N	104.403	W	26.33		26.95		0.62			0.62
47.125	18.517	N	104.433	W	26.17		26.83		0.62			0.66
47.167	18.287	N	104.485	W	25.84		26.50		0.62			0.66
47.208	18.027	N	104.493	W	25.84		26.50		0.62			0.66
47.250	17.788	N	104.470	W	25.56		26.25		0.63			0.69
47.292	17.555	N	104.503	W	25.77		26.42		0.63			0.65
47.333	17.313	N	104.532	W	25.35		26.05		0.63			0.71
47.375	17.070	N	104.558	W	25.08		25.73		0.63			0.65
47.417	16.828	N	104.598	W	25.44		26.00		0.63			0.56
47.458	16.587	N	104.633	W	26.46		27.06		0.62			0.60
47.500	16.340	N	104.673	W	27.22		27.77		0.62			0.55
47.542	16.097	N	104.713	W	27.62		28.17		0.62			0.55
47.583	15.857	N	104.748	W	27.50		28.08		0.62			0.58
47.625	15.617	N	104.792	W	27.29		27.87		0.62			0.59
47.667	15.355	N	104.857	W	27.17		27.77		0.62			0.60
47.708	15.130	N	104.887	W	26.19		26.86		0.62			0.67
47.750	14.912	N	104.903	W	25.91		26.60		0.62			0.69
47.792	14.653	N	104.913	W	25.89		26.58		0.62			0.69
47.833	14.362	N	104.932	W	26.30		26.96		0.62			0.66
47.875	14.088	N	104.993	W	26.95		27.57		0.62			0.62
47.917	14.083	N	105.000	W	27.20		27.83		0.62			0.63
47.958	14.008	N	104.987	W	27.10		27.80		0.62			0.70
48.000	14.010	N	104.987	W	27.16		27.81		0.62			0.65
48.042	13.765	N	104.988	W	27.23		27.85		0.62			0.63
48.083	13.495	N	104.987	W	27.28		27.89		0.62			0.62
48.125	13.227	N	104.992	W	27.25		27.87		0.62			0.62
48.167	13.017	N	105.010	W	27.24		27.87		0.62			0.63
48.208	12.765	N	105.012	W	27.32		27.94		0.62			0.62
48.250	12.500	N	104.995	W	27.35		27.95		0.62			0.60
48.292	12.245	N	105.007	W	27.33		27.92		0.62			0.60
48.333	12.000	N	105.000	W	27.25		27.85		0.62			0.60
48.375	12.008	N	105.000	W	27.21		27.81		0.62			0.60
48.417	12.010	N	105.000	W	27.20		27.79		0.62			0.59
48.458	12.030	N	104.998	W	27.20		27.78		0.62			0.59
48.500	12.033	N	104.998	W	27.19		27.77		0.62			0.58
48.542	12.023	N	104.997	W	27.18		27.76		0.62			0.59
48.583	11.993	N	105.000	W	27.17		27.76		0.62			0.59
48.625	11.948	N	105.027	W	27.16		27.77		0.62			0.61

RITS/CO2 1989										
Date GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
48.667	11.735	N 105.170 W	27.19		27.81		0.62		0.62	
48.708	11.507	N 105.290 W	27.18		27.82		0.62		0.64	
48.750	11.260	N 105.372 W	27.18		27.83		0.62		0.65	
48.792	11.010	N 105.418 W	27.11		27.80		0.62		0.68	
48.833	10.755	N 105.503 W	27.40		28.07		0.62		0.67	
48.875	10.497	N 105.562 W	27.50		28.18		0.62		0.66	
48.917	10.500	N 105.568 W	27.52		28.19		0.62		0.68	
48.958	10.495	N 105.598 W	27.55		28.22		0.62		0.67	
49.000	10.493	N 105.602 W	27.53		28.17		0.62		0.65	
49.042	10.502	N 105.585 W	27.50		28.11		0.62		0.62	
49.083	10.448	N 105.542 W	27.44		28.06		0.62		0.62	
49.125	10.195	N 105.577 W	27.63		28.23		0.62		0.60	
49.167	9.967	N 105.775 W	27.72		28.31		0.62		0.59	
49.208	9.728	N 105.858 W	27.58		28.19		0.62		0.60	
49.250	9.490	N 105.973 W	27.24		27.87		0.62		0.63	
49.292	9.252	N 106.080 W	26.36		27.02		0.62		0.66	
49.333	9.013	N 106.160 W	26.28		26.94		0.62		0.66	
49.375	8.770	N 106.242 W	26.16		26.82		0.62		0.66	
49.417	8.532	N 106.273 W	26.05		26.72		0.62		0.67	
49.458	8.292	N 106.403 W	25.74		26.42		0.63		0.68	
49.500	8.050	N 106.453 W	25.67		26.35		0.63		0.68	
49.542	8.027	N 106.447 W	25.67		26.35		0.63		0.68	
49.583	8.028	N 106.448 W	25.67		26.35		0.63		0.68	
49.625	7.972	N 106.488 W	25.69		26.37		0.63		0.69	
49.667	7.992	N 106.460 W	25.69		26.40		0.63		0.71	
49.708	7.998	N 106.463 W	25.72		26.44		0.63		0.71	
49.750	8.003	N 106.465 W	25.78		26.50		0.63		0.73	
49.792	7.998	N 106.452 W	25.84		26.58		0.62		0.74	
49.833	8.002	N 106.423 W	25.88		26.63		0.62		0.75	
49.875	8.005	N 106.433 W	25.90		26.66		0.62		0.76	
49.917	8.010	N 106.422 W	25.95		26.71		0.62		0.75	
49.958	8.018	N 106.422 W	25.95		26.70		0.62		0.75	
50.000	8.015	N 106.430 W	25.96		26.71		0.62		0.75	
50.042	8.002	N 106.470 W	25.93		26.63		0.62		0.70	
50.083	7.998	N 106.472 W	25.90		26.59		0.62		0.69	
50.125	7.998	N 106.475 W	25.87		26.55		0.62		0.68	
50.167	8.000	N 106.468 W	25.84		26.52		0.62		0.68	
50.208	7.798	N 106.577 W	25.92		26.59		0.62		0.67	
50.250	7.588	N 106.722 W	26.03		26.69		0.62		0.66	
50.292	7.373	N 106.855 W	26.09		26.74		0.62		0.65	
50.333	7.158	N 106.980 W	25.82		26.49		0.62		0.66	
50.375	6.940	N 107.093 W	25.91		26.57		0.62		0.66	
50.417	6.720	N 107.207 W	25.93		26.59		0.62		0.66	
50.458	6.508	N 107.320 W	25.81		26.47		0.62		0.66	
50.500	6.302	N 107.450 W	25.65		26.32		0.63		0.67	
50.542	6.135	N 107.583 W	25.46		26.14		0.63		0.68	
50.583	6.023	N 107.625 W	25.41		26.09		0.63		0.68	
50.625	6.032	N 107.605 W	25.37		26.07		0.63		0.70	
50.667	5.868	N 107.707 W	25.33		26.05		0.63		0.72	
50.708	5.670	N 107.825 W	25.41		26.13		0.63		0.72	

					RITS/CO2 1989							
Date GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
50.750	5.472	N	107.967		W	25.41	26.13		0.63		0.73	
50.792	5.292	N	108.055		W	25.60	26.33		0.63		0.72	
50.833	5.095	N	108.215		W	25.64	26.38		0.63		0.73	
50.875	4.892	N	108.330		W	25.76	26.46		0.63		0.70	
50.917	4.683	N	108.453		W	25.98	26.66		0.62		0.68	
50.958	4.493	N	108.558		W	26.03	26.72		0.62		0.68	
51.000	4.300	N	108.673		W	26.04	26.72		0.62		0.67	
51.042	4.300	N	108.673		W	25.94	26.62		0.62		0.68	
51.083	4.030	N	108.848		W	25.91	26.59		0.62		0.67	
51.125	4.015	N	108.843		W	25.90	26.57		0.62		0.67	
51.167	4.017	N	108.822		W	25.88	26.55		0.62		0.67	
51.208	4.025	N	108.843		W	25.87	26.53		0.62		0.66	
51.250	3.980	N	108.773		W	25.88	26.55		0.62		0.67	
51.292	3.970	N	108.750		W	25.85	26.52		0.62		0.67	
51.333	3.897	N	108.915		W	25.81	26.47		0.62		0.66	
51.375	3.695	N	109.047		W	25.80	26.46		0.62		0.66	
51.417	3.490	N	109.178		W	25.75	26.41		0.63		0.66	
51.458	3.280	N	109.307		W	25.77	26.43		0.63		0.66	
51.500	3.065	N	109.418		W	25.65	26.31		0.63		0.66	
51.542	2.853	N	109.597		W	25.51	26.18		0.63		0.67	
51.583	2.637	N	109.703		W	25.57	26.23		0.63		0.67	
51.625	2.423	N	109.832		W	25.58	26.26		0.63		0.68	
51.667	2.222	N	109.983		W	25.56	26.25		0.63		0.69	
51.708	2.007	N	110.127		W	25.69	26.37		0.63		0.68	
51.750	1.998	N	110.100		W	25.74	26.41		0.63		0.68	
51.792	1.997	N	110.127		W	25.84	26.55		0.62		0.70	
51.833	1.997	N	110.100		W	25.83	26.55		0.62		0.73	
51.875	1.997	N	110.112		W	25.97	26.69		0.62		0.73	
51.917	2.002	N	110.148		W	25.99	26.71		0.62		0.72	
51.958	1.865	N	110.145		W	26.03	26.73		0.62		0.70	
52.000	1.725	N	110.142		W	25.91	26.59		0.62		0.68	
52.042	1.500	N	110.097		W	26.02	26.66		0.62		0.64	
52.083	1.265	N	110.065		W	26.18	26.79		0.62		0.62	
52.125	1.032	N	110.008		W	26.37	26.99		0.62		0.62	
52.167	1.002	N	109.998		W	26.37	27.00		0.62		0.62	
52.208	0.997	N	110.013		W	26.39	27.01		0.62		0.62	
52.250	1.002	N	110.020		W	26.37	26.99		0.62		0.63	
52.292	0.985	N	110.020		W	26.36	26.98		0.62		0.62	
52.333	0.982	N	110.023		W	26.31	26.94		0.62		0.62	
52.375	0.992	N	110.012		W	26.26	26.88		0.62		0.62	
52.417	1.002	N	110.002		W	26.23	26.84		0.62		0.61	
52.458	0.850	N	110.015		W	26.34	26.94		0.62		0.60	
52.500	0.603	N	110.002		W	26.42	27.02		0.62		0.60	
52.542	0.353	N	109.988		W	26.40	27.00		0.62		0.60	
52.583	0.103	N	109.988		W	26.43	27.03		0.62		0.60	
52.625	0.007	N	109.995		W	26.47	27.08		0.62		0.61	
52.667	0.010	S	110.008		W	26.49	27.11		0.62		0.62	
52.708	0.008	S	110.015		W	26.54	27.17		0.62		0.63	
52.750	0.010	S	110.015		W	26.58	27.22		0.62		0.64	
52.792	0.010	S	110.017		W	26.64	27.27		0.62		0.63	

					RITS/CO2 1989							
Date GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
52.833	0.012	S	110.022	W	26.75		27.39		0.62		0.64	
52.875	0.003	S	109.995	W	26.73		27.39		0.62		0.65	
52.917	0.002	S	109.995	W	26.61		27.25		0.62		0.64	
52.958	0.427	S	110.000	W	26.61		27.23		0.62		0.62	
53.000	0.670	S	110.003	W	26.59		27.22		0.62		0.63	
53.042	0.917	S	110.000	W	26.46		27.08		0.62		0.63	
53.083	1.012	S	109.973	W	26.71		27.32		0.62		0.61	
53.125	1.103	S	109.967	W	26.28		26.90		0.62		0.62	
53.167	1.302	S	109.980	W	25.75		26.37		0.63		0.63	
53.208	1.528	S	109.993	W	26.08		26.69		0.62		0.61	
53.250	1.748	S	110.005	W	25.85		26.48		0.62		0.63	
53.292	1.978	S	109.990	W	26.00		26.62		0.62		0.62	
53.333	1.992	S	109.960	W	26.00		26.63		0.62		0.63	
53.375	1.968	S	109.940	W	25.95		26.57		0.62		0.62	
53.417	2.107	S	109.912	W	25.94		26.56		0.62		0.62	
53.458	2.330	S	109.918	W	25.56		26.18		0.63		0.62	
53.500	2.552	S	109.955	W	25.56		26.19		0.63		0.63	
53.542	2.777	S	109.995	W	25.35		25.97		0.63		0.62	
53.583	3.007	S	110.025	W	25.58		26.18		0.63		0.60	
53.625	3.228	S	110.038	W	25.66		26.28		0.63		0.61	
53.667	3.493	S	110.045	W	25.94		26.55		0.62		0.61	
53.708	3.733	S	110.018	W	26.20		26.82		0.62		0.62	
53.750	3.973	S	110.080	W	26.20		26.83		0.62		0.63	
53.792	4.003	S	110.008	W	26.23		26.87		0.62		0.65	
53.833	4.008	S	110.000	W	26.30		26.96		0.62		0.67	
53.875	4.012	S	110.022	W	26.47		27.14		0.62		0.67	
53.917	4.020	S	110.017	W	26.45		27.13		0.62		0.68	
53.958	4.027	S	109.987	W	26.47		27.15		0.62		0.68	
54.000	4.017	S	109.987	W	26.40		27.08		0.62		0.68	
54.042	4.178	S	109.992	W	26.37		27.00		0.62		0.63	
54.083	4.447	S	110.032	W	26.29		26.89		0.62		0.60	
54.125	4.705	S	110.008	W	26.25		26.85		0.62		0.59	
54.167	4.973	S	110.002	W	26.35		26.94		0.62		0.59	
54.208	4.973	S	110.002	W	26.36		26.97		0.62		0.62	
54.250	4.972	S	110.000	W	26.27		26.89		0.62		0.62	
54.292	4.972	S	110.000	W	26.25		26.86		0.62		0.62	
54.333	4.972	S	109.992	W	26.24		26.86		0.62		0.61	
54.375	5.018	S	109.977	W	26.17		26.78		0.62		0.61	
54.417	5.280	S	109.995	W	26.21		26.80		0.62		0.59	
54.458	5.537	S	110.000	W	26.02		26.62		0.62		0.60	
54.500	5.792	S	109.995	W	25.93		26.53		0.62		0.61	
54.542	6.000	S	109.990	W	25.94		26.55		0.62		0.61	
54.583	5.997	S	109.988	W	25.93		26.55		0.62		0.62	
54.625	6.117	S	109.985	W	25.98		26.60		0.62		0.62	
54.667	6.258	S	109.672	W	26.01		26.64		0.62		0.64	
54.708	6.417	S	109.508	W	25.98		26.63		0.62		0.66	
54.750	6.572	S	109.327	W	25.95		26.61		0.62		0.66	
54.792	6.690	S	109.142	W	25.96		26.62		0.62		0.65	
54.833	6.853	S	108.952	W	25.93	H	*		0.62		*	
54.875	6.993	S	108.778	W	25.91	H	*		0.62		*	

RITS/CO2 1989												
Date	GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
54.917		7.142 S	108.607 W	25.89	H		*	0.62			*	
54.958		7.290 S	108.428 W	25.87	H		*	0.62			*	
55.000		7.427 S	108.258 W	25.85	H		*	0.62			*	
55.042		7.562 S	108.078 W	25.82	H		*	0.62			*	
55.083		7.712 S	107.867 W	25.81	H		*	0.62			*	
55.125		7.878 S	107.655 W	25.78	H		*	0.62			*	
55.167		8.000 S	107.500 W	25.76	H		*	0.62			*	
55.208		7.985 S	107.578 W	25.73	H		*	0.62			*	
55.250		8.000 S	107.500 W	25.71		26.34		0.63		0.63		
55.292		8.000 S	107.493 W	25.73		26.35		0.63		0.63		
55.333		8.000 S	107.495 W	25.73		26.35		0.63		0.63		
55.375		8.015 S	107.475 W	25.71		26.33		0.63		0.62		
55.417		8.082 S	107.397 W	25.72		26.35		0.63		0.63		
55.458		8.280 S	107.250 W	25.69		26.28		0.63		0.59		
55.500		8.462 S	107.090 W	25.73		26.31		0.63		0.58		
55.542		6.600 S	106.905 W	25.71		26.28		0.63		0.57		
55.583		8.748 S	106.708 W	25.74		26.33		0.63		0.59		
55.625		8.892 S	106.498 W	25.78		26.38		0.63		0.60		
55.667		9.027 S	106.320 W	25.99		26.35		0.62		0.36	D	
55.708		9.177 S	106.118 W	26.09		26.43		0.62		0.34	D	
55.750		9.327 S	105.910 W	26.10		26.46		0.62		0.35	D	
55.792		9.467 S	105.685 W	26.14		26.49		0.62		0.35	D	
55.833		9.607 S	105.512 W	26.10		26.46		0.62		0.36	D	
55.875		9.758 S	105.308 W	26.04		26.40		0.62		0.36	D	
55.917		9.905 S	105.092 W	26.10		26.46		0.62		0.36	D	
55.958		9.942 S	105.110 W	26.12		26.48		0.62		0.36	D	
56.000	10.002	S	105.003 W	26.13		26.50		0.62		0.37	D	
56.042	10.018	S	104.997 W	26.12		26.46		0.62		0.34	D	
56.083	10.180	S	104.990 W	26.13		26.44		0.62		0.31	D	
56.125	10.418	S	104.993 W	25.87		26.38		0.62		0.52		
56.167	10.657	S	105.028 W	25.64		26.29		0.63		0.65		
56.208	10.905	S	105.025 W	25.40		26.05		0.63		0.66		
56.250	11.157	S	104.993 W	25.32		25.97		0.63		0.65		
56.292	11.385	S	104.988 W	25.33		25.98		0.63		0.65		
56.333	11.633	S	104.987 W	25.30		25.96		0.63		0.66		
56.375	11.878	S	104.997 W	25.26		25.92		0.63		0.66		
56.417	12.005	S	104.993 W	25.27		25.93		0.63		0.66		
56.458	12.015	S	104.978 W	25.26		25.92		0.63		0.66		
56.500	12.020	S	104.978 W	25.26		25.93		0.63		0.66		
56.542	12.022	S	104.975 W	25.27		25.93		0.63		0.66		
56.583	12.032	S	104.972 W	25.26		25.93		0.63		0.67		
56.625	12.037	S	104.975 W	25.25		25.93		0.63		0.68		
56.667	12.157	S	104.975 W	25.28		25.97		0.63		0.69		
56.708	12.392	S	104.992 W	25.22		25.92		0.63		0.70		
56.750	12.643	S	104.995 W	25.23		25.93		0.63		0.69		
56.792	12.882	S	105.002 W	25.12		25.84		0.63		0.72		
56.833	13.120	S	105.040 W	25.09		25.81		0.63		0.72		
56.875	13.358	S	105.023 W	25.00		25.72		0.63		0.72		
56.917	13.610	S	105.013 W	25.03		25.75		0.63		0.72		
56.958	13.862	S	104.998 W	24.94		25.56		0.63		0.62		

RITS/CO2 1989											
Date GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr.	Warming	Flag	Point-by-point	Flag
57.000	14.000	S 105.002 W	25.00		25.62			0.63		0.61	
57.042	14.047	S 105.018 W	25.00		25.56			0.63		0.57	
57.083	14.278	S 105.008 W	24.88		25.44			0.63		0.55	
57.125	14.553	S 105.005 W	24.83		25.37			0.63		0.55	
57.167	14.803	S 105.020 W	24.83		25.38			0.63		0.54	
57.208	15.057	S 105.010 W	24.83		25.37			0.63		0.55	
57.250	15.295	S 104.998 W	24.79		25.34			0.63		0.55	
57.292	15.542	S 104.993 W	24.84		25.38			0.63		0.54	
57.333	15.788	S 104.993 W	24.82		25.37			0.63		0.55	
57.375	15.998	S 104.997 W	24.78		25.33			0.63		0.55	
57.417	16.002	S 104.988 W	24.76		25.32			0.63		0.56	
57.458	16.008	S 104.993 W	24.75		25.30			0.63		0.56	
57.500	16.020	S 104.982 W	24.74		25.29			0.63		0.55	
57.542	16.045	S 104.942 W	24.72		25.28			0.63		0.56	
57.583	16.017	S 104.968 W	24.72		25.27			0.63		0.55	
57.625	16.002	S 104.950 W	24.69		25.27			0.63		0.57	
57.667	16.220	S 104.977 W	24.37		24.96			0.63		0.59	
57.708	16.453	S 104.990 W	24.41		25.00			0.63		0.59	
57.750	16.693	S 104.997 W	24.44		25.02			0.63		0.58	
57.792	16.933	S 105.000 W	24.48		25.05			0.63		0.57	
57.833	17.183	S 105.025 W	24.39		24.97			0.63		0.58	
57.875	17.413	S 105.010 W	24.36		24.93			0.63		0.57	
57.917	17.643	S 105.008 W	24.41		24.98			0.63		0.57	
57.958	17.872	S 105.008 W	24.44		25.03			0.63		0.59	
58.000	18.018	S 104.987 W	24.46		25.09			0.63		0.63	
58.042	18.023	S 104.992 W	24.44		25.04			0.63		0.60	
58.083	18.232	S 105.008 W	24.40		24.96			0.63		0.56	
58.125	18.493	S 104.983 W	24.41		24.98			0.63		0.56	
58.167	18.750	S 104.988 W	24.44		25.00			0.63		0.56	
58.208	18.977	S 105.065 W	24.52		25.07			0.63		0.55	
58.250	19.225	S 105.060 W	24.60		25.15			0.63		0.55	
58.292	19.472	S 105.038 W	24.68		25.22			0.63		0.54	
58.333	19.713	S 105.013 W	24.85		25.38			0.63		0.54	
58.375	19.957	S 105.002 W	24.90		25.45			0.63		0.55	
58.417	20.007	S 104.995 W	24.83		25.39			0.63		0.56	
58.458	19.982	S 104.988 W	24.87		25.42			0.63		0.56	
58.500	19.963	S 104.980 W	24.90		25.45			0.63		0.55	
58.542	19.952	S 104.968 W	24.92		25.47			0.63		0.55	
58.583	19.940	S 104.957 W	24.92		25.48			0.63		0.56	
58.625	19.940	S 104.935 W	24.92		25.49			0.63		0.57	
58.667	19.992	S 104.935 W	24.86		25.43			0.63		0.58	
58.708	20.262	S 104.952 W	24.92		25.50			0.63		0.58	
58.750	20.487	S 104.967 W	25.04		25.63			0.63		0.59	
58.792	20.743	S 104.980 W	25.08		25.66			0.63		0.59	
58.833	20.980	S 104.992 W	25.09		25.68			0.63		0.59	
58.875	21.228	S 105.003 W	25.10		25.68			0.63		0.58	
58.917	21.472	S 105.015 W	25.31		25.88			0.63		0.57	
58.958	21.692	S 105.010 W	25.38		25.94			0.63		0.56	
59.000	21.955	S 105.008 W	25.35		25.88			0.63		0.53	
59.042	22.007	S 105.010 W	25.38		25.91			0.63		0.53	

RITS/CO2 1989											
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
59.083	22.080	S	105.035	W	25.39		25.91		0.63		0.52
59.125	22.318	S	105.000	W	25.47		25.99		0.63		0.52
59.167	22.567	S	104.997	W	25.45		25.98		0.63		0.53
59.208	22.803	S	105.033	W	25.32		25.85		0.63		0.54
59.250	23.053	S	105.020	W	25.39		25.92		0.63		0.53
59.292	23.303	S	105.013	W	25.41		25.94		0.63		0.53
59.333	23.538	S	105.010	W	25.57		26.08		0.63		0.51
59.375	23.802	S	105.003	W	25.87		26.38		0.62		0.51
59.417	24.045	S	104.997	W	25.89		26.40		0.62		0.51
59.458	24.292	S	104.990	W	26.00		26.50		0.62		0.50
59.500	24.537	S	104.982	W	26.10		26.60		0.62		0.50
59.542	24.783	S	104.985	W	26.04		26.54		0.62		0.50
59.583	24.995	S	104.995	W	26.09		26.61		0.62		0.52
59.625	24.992	S	104.990	W	26.10		26.63		0.62		0.53
59.667	24.980	S	104.962	W	26.13		26.66		0.62		0.53
59.708	24.968	S	104.968	W	26.13		26.73		0.62		0.60
59.750	24.962	S	104.972	W	26.03		26.72		0.62		0.69
59.792	24.955	S	104.950	W	26.11		26.80		0.62		0.70
59.833	24.953	S	104.955	W	26.05		26.76		0.62		0.71
59.875	25.035	S	105.105	W	26.04		26.73		0.62		0.69
59.917	25.127	S	105.347	W	26.10		26.79		0.62		0.69
59.958	25.185	S	105.392	W	26.15		26.84		0.62		0.70
60.000	25.197	S	105.497	W	26.11		26.79		0.62		0.68
60.042	25.358	S	105.708	W	26.17		26.83		0.62		0.66
60.083	25.485	S	105.950	W	26.37		27.00		0.62		0.62
60.125	25.655	S	106.182	W	26.47		27.09		0.62		0.62
60.167	25.678	S	106.420	W	26.39		27.01		0.62		0.62
60.208	25.845	S	106.703	W	26.40		27.01		0.62		0.61
60.250	25.940	S	106.900	W	26.47		27.08		0.62		0.61
60.292	26.062	S	107.142	W	26.57		27.17		0.62		0.60
60.333	26.183	S	107.372	W	26.56		27.17		0.62		0.61
60.375	26.308	S	107.620	W	26.57		27.17		0.62		0.60
60.417	26.437	S	107.855	W	26.61		27.21		0.62		0.60
60.458	26.545	S	108.083	W	26.58		27.17		0.62		0.59
60.500	26.692	S	108.137	W	26.54		27.14		0.62		0.60
60.542	26.820	S	108.502	W	26.65		27.24		0.62		0.59
60.583	26.945	S	108.845	W	26.75		27.38		0.62		0.63
64.042	27.245	S	109.067	W	26.29		26.92		0.62		0.63
64.083	27.353	S	108.845	W	26.18		26.72		0.62		0.54
64.125	27.395	S	108.572	W	26.24		26.94		0.62		0.70
64.167	27.445	S	108.305	W	26.25		26.86		0.62		0.61
64.208	27.495	S	108.047	W	26.07		26.68		0.62		0.61
64.250	27.545	S	107.782	W	26.11		26.72		0.62		0.61
64.292	27.590	S	107.525	W	25.96		26.58		0.62		0.62
64.333	27.638	S	107.265	W	25.73		26.37		0.63		0.64
64.375	27.690	S	107.003	W	25.51		26.15		0.63		0.65
64.417	27.725	S	106.738	W	25.31		25.96		0.63		0.66
64.458	27.765	S	106.478	W	25.24		25.89		0.63		0.65
64.500	27.803	S	106.222	W	25.48		26.11		0.63		0.63

				RITS/CO2 1989								
Date	GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr.	Warming	Flag	Point-by-point	Flag
64.542		27.850	S 105.965 W	25.58		26.20		0.63			0.62	
64.583		27.895	S 105.703 W	25.66		26.26		0.63			0.61	
64.625		27.925	S 105.440 W	25.59		26.23		0.63			0.64	
64.667		27.965	S 105.178 W	25.53		26.17		0.63			0.65	
64.708		28.000	S 105.012 W	25.54		26.21		0.63			0.67	
64.750		28.008	S 105.008 W	25.53		26.21		0.63			0.68	
64.792		28.003	S 104.975 W	25.55		26.22		0.63			0.67	
64.833		27.988	S 105.018 W	25.62		26.32		0.63			0.70	
64.875		27.990	S 105.007 W	25.63		26.34		0.63			0.71	
64.917		28.000	S 104.997 W	25.61		26.32		0.63			0.71	
64.958		27.993	S 104.967 W	25.58		26.29		0.63			0.71	
65.000		28.152	S 104.950 W	25.22		25.92		0.63			0.70	
65.042		28.432	S 104.992 W	25.00		25.68		0.63			0.68	
65.083		28.693	S 104.997 W	24.84		25.47		0.63			0.63	
65.125		28.907	S 104.963 W	24.81		25.35		0.63			0.54	
65.167		29.157	S 105.012 W	24.64		25.18		0.63			0.54	
65.208		29.397	S 105.025 W	24.70		25.24		0.63			0.54	
65.250		28.635	S 105.008 W	24.61		25.15		0.63			0.54	
65.292		29.865	S 104.995 W	24.66		25.20		0.63			0.54	
65.333		30.010	S 104.972 W	24.75		25.29		0.63			0.53	
65.375		29.988	S 105.005 W	24.74		25.27		0.63			0.53	
65.417		30.073	S 104.982 W	24.81		25.33		0.63			0.52	
65.458		30.337	S 104.973 W	24.66		25.19		0.63			0.54	
65.500		30.583	S 104.975 W	24.34		24.88		0.63			0.54	
65.542		30.833	S 104.977 W	24.23		24.77		0.63			0.54	
65.583		31.100	S 104.985 W	24.18		24.73		0.63			0.55	
65.625		31.323	S 104.977 W	24.41		24.96		0.63			0.55	
65.667		31.538	S 104.983 W	24.04		24.64		0.63			0.60	
65.708		31.803	S 104.995 W	23.61		24.24		0.63			0.63	
65.750		31.998	S 105.007 W	23.61		24.23		0.63			0.62	
65.792		32.022	S 105.010 W	23.64		24.24		0.63			0.61	
65.833		31.958	S 105.003 W	23.67		24.30		0.63			0.63	
65.875		31.987	S 104.985 W	23.71		24.36		0.63			0.65	
65.917		31.985	S 104.993 W	23.71		24.35		0.63			0.64	
65.958		31.982	S 104.952 W	23.69		24.33		0.63			0.64	
66.000		31.980	S 104.938 W	23.68		24.34		0.63			0.66	
66.042		31.982	S 104.927 W	23.65		24.25		0.63			0.60	
66.083		31.958	S 104.920 W	23.60		24.19		0.63			0.59	
66.125		31.988	S 104.917 W	23.58		24.17		0.63			0.59	
66.167		31.990	S 104.905 W	23.55		24.14		0.63			0.59	
66.208		32.140	S 104.898 W	23.43		24.02		0.63			0.59	
66.250		32.380	S 104.947 W	22.99		23.59		0.63			0.61	
66.292		32.615	S 104.983 W	22.89		23.50		0.63			0.61	
66.333		32.849	S 104.986 W	22.95		23.55		0.63			0.60	
66.375		33.088	S 104.990 W	22.81		23.42		0.63			0.61	
66.417		33.322	S 104.992 W	22.54		23.16		0.63			0.62	
66.458		33.557	S 105.005 W	22.25		22.89		0.64			0.64	
66.500		33.793	S 105.008 W	22.21		22.84		0.64			0.63	
66.542		33.998	S 104.998 W	22.19		22.83		0.64			0.64	
66.583		33.995	S 104.987 W	22.18		22.82		0.64			0.64	

RITS/CO2 1989											
Date GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
66.625	33.978	S 104.997	W 22.12		22.77		0.64		0.65		
66.667	34.260	S 104.988	W 22.22		22.87		0.64		0.66		
66.708	34.508	S 104.990	W 22.21		22.89		0.64		0.69		
66.750	34.770	S 105.002	W 21.93		22.63		0.64		0.70		
66.792	35.022	S 105.003	W 21.72		22.43		0.64		0.71		
66.833	35.267	S 105.002	W 21.66		22.38		0.64		0.72		
66.875	35.510	S 105.022	W 21.53		22.26		0.64		0.74		
66.917	35.768	S 105.008	W 21.51		22.25		0.64		0.74		
66.958	36.000	S 105.000	W 21.33		22.06		0.64		0.73		
67.000	35.998	S 105.025	W 21.34		22.05		0.64		0.71		
67.042	35.983	S 105.040	W 21.30		22.00		0.64		0.70		
67.083	35.987	S 105.008	W 21.27		21.95		0.64		0.68		
67.125	35.987	S 105.002	W 21.22		21.90		0.64		0.68		
67.167	35.963	S 105.042	W 21.19		21.88		0.64		0.69		
67.208	35.953	S 105.020	W 21.18		21.87		0.64		0.69		
67.250	36.020	S 105.018	W 21.16		21.85		0.64		0.68		
67.292	36.268	S 105.018	W 21.15		21.82		0.64		0.68		
67.333	36.535	S 105.012	W 20.97		21.67		0.64		0.71		
67.375	36.792	S 105.003	W 20.01		20.71		0.64		0.70		
67.417	37.042	S 105.002	W 19.39		20.02		0.64		0.63		
67.458	37.292	S 105.007	W 19.30		19.93		0.64		0.63		
67.500	37.547	S 105.015	W 18.99		19.63		0.64		0.64		
67.542	37.805	S 105.017	W 18.89		19.53		0.64		0.64		
67.583	38.005	S 104.993	W 18.81		19.47		0.65		0.66		
67.625	38.005	S 104.993	W 18.81		19.49		0.65		0.68		
67.667	38.003	S 104.992	W 18.85		19.53		0.64		0.68		
67.708	38.132	S 104.993	W 18.83		19.51		0.64		0.68		
67.750	38.377	S 105.010	W 18.75		19.45		0.65		0.70		
67.792	38.655	S 104.975	W 18.45		19.15		0.65		0.70		
67.833	38.908	S 105.002	W 18.74		19.43		0.65		0.69		
67.875	39.163	S 105.012	W 18.71		19.41		0.65		0.70		
67.917	39.402	S 104.982	W 18.28		18.97		0.65		0.68		
67.958	39.638	S 104.998	W 17.78		18.47		0.65		0.70		
68.000	39.888	S 105.012	W 17.22		17.94		0.65		0.72		
68.042	39.993	S 105.000	W 17.04		17.75		0.65		0.70		
68.083	39.985	S 105.002	W 17.04		17.72		0.65		0.67		
68.125	39.997	S 105.042	W 17.02		17.68		0.65		0.66		
68.167	40.002	S 105.060	W 16.97		17.63		0.65		0.66		
68.208	40.022	S 105.055	W 16.91		17.57		0.65		0.66		
68.250	40.033	S 105.062	W 16.88		17.53		0.65		0.66		
68.292	40.038	S 105.070	W 16.86		17.51		0.65		0.65		
68.333	40.090	S 105.065	W 16.85		17.48		0.65		0.63		
68.375	40.255	S 105.105	W 16.74		17.38		0.65		0.64		
68.417	40.450	S 105.092	W 16.39		17.02		0.65		0.62		
68.458	40.658	S 105.055	W 16.19		16.80		0.65		0.61		
68.500	40.858	S 105.017	W 16.15		16.75		0.65		0.60		
68.542	41.048	S 105.005	W 16.05		16.65		0.65		0.60		
68.583	41.210	S 105.022	W 15.97		16.47		0.65		0.49		
68.625	41.335	S 105.008	W 15.97		16.43		0.65		0.46		
68.667	41.365	S 105.045	W 15.89		16.37		0.65		0.48		

RITS/CO2 1989											
Date GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
68.708	41.447	S 105.045 W	15.62		16.14		0.65		0.52		
68.750	41.542	S 105.048 W	15.43		15.89		0.65		0.46		
68.792	41.687	S 105.063 W	15.32		15.77		0.66		0.45		
68.833	41.897	S 105.030 W	15.02		15.54		0.66		0.53		
68.875	42.042	S 104.997 W	14.68		15.22		0.66		0.54		
68.917	42.200	S 104.978 W	14.83		15.35		0.66		0.53		
68.958	42.307	S 105.002 W	15.13		15.63		0.66		0.50		
69.000	42.465	S 104.997 W	15.33		15.83		0.66		0.50		
69.042	42.648	S 104.968 W	15.13		15.62		0.66		0.49		
69.083	42.723	S 104.967 W	14.84		15.33		0.66		0.48		
69.125	42.918	S 104.950 W	14.68		15.18		0.66		0.50		
69.167	43.087	S 104.957 W	14.55		15.04		0.66		0.50		
69.208	43.253	S 104.968 W	14.14		14.66		0.66		0.53		
69.250	43.432	S 104.972 W	13.85		14.37		0.66		0.53		
69.292	43.613	S 104.975 W	13.39		13.96		0.66		0.57		
69.333	43.787	S 104.985 W	13.33		13.89		0.66		0.56		
69.375	44.007	S 104.995 W	13.43		13.98		0.66		0.55		
69.417	44.013	S 105.000 W	13.50		14.05		0.66		0.56		
69.458	44.038	S 105.010 W	13.50		14.05		0.66		0.55		
69.500	44.025	S 105.017 W	13.50		14.06		0.66		0.56		
69.542	44.028	S 105.033 W	13.50		14.06		0.66		0.57		
69.583	44.022	S 105.042 W	13.49		14.07		0.66		0.58		
69.625	44.020	S 105.047 W	13.50		14.08		0.66		0.58		
69.667	44.123	S 105.037 W	13.53		14.10		0.66		0.57		
69.708	44.367	S 105.027 W	13.26		13.85		0.66		0.59		
69.750	44.613	S 105.032 W	12.63		13.30		0.66		0.67		
69.792	44.860	S 105.030 W	12.42		13.09		0.66		0.67		
69.833	45.103	S 105.055 W	12.31		12.99		0.66		0.68		
69.875	45.325	S 105.035 W	11.71		12.40		0.67		0.69		
69.917	45.588	S 104.997 W	11.73		12.42		0.67		0.69		
69.958	45.853	S 104.973 W	11.84		12.49		0.67		0.65		
70.000	46.015	S 104.995 W	11.84		12.47		0.67		0.64		
70.042	46.055	S 104.995 W	11.83		12.48		0.67		0.65		
70.083	46.020	S 105.057 W	11.85		12.50		0.66		0.65		
70.125	46.187	S 105.040 W	11.80		12.44		0.67		0.65		
70.167	46.432	S 105.037 W	11.69		12.35		0.67		0.65		
70.208	46.652	S 105.037 W	11.58		12.24		0.67		0.66		
70.250	46.888	S 105.023 W	11.34		12.02		0.67		0.66		
70.292	47.170	S 105.002 W	10.88		11.57		0.67		0.69		
70.333	47.415	S 104.990 W	10.61		11.29		0.67		0.68		
70.375	47.642	S 105.008 W	10.42		11.09		0.67		0.67		
70.417	47.873	S 105.002 W	10.35		11.02		0.67		0.67		
70.458	48.003	S 105.002 W	10.22		10.91		0.67		0.70		
70.500	48.015	S 105.012 W	10.11		10.81		0.67		0.69		
70.542	48.027	S 105.027 W	10.12		10.81		0.67		0.69		
70.583	48.038	S 105.038 W	10.09		10.78		0.67		0.69		
70.625	48.045	S 105.047 W	10.10		10.78		0.67		0.68		
70.667	48.055	S 105.057 W	10.16		10.85		0.67		0.70		
70.708	48.065	S 105.077 W	10.18		10.89		0.67		0.71		
70.750	48.060	S 105.080 W	10.21		10.92		0.67		0.71		

RITS/CO2 1989											
Date GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
70.792	48.077	S 105.088	W 10.25		10.95		0.67		0.70		
70.833	48.085	S 105.095	W 10.28		11.00		0.67		0.72		
70.875	48.095	S 105.102	W 10.32		11.03		0.67		0.71		
70.917	48.185	S 105.110	W 10.12		10.82		0.67		0.70		
70.958	48.463	S 105.070	W 10.04		10.73		0.67		0.69		
71.000	48.718	S 105.082	W 10.12		10.80		0.67		0.68		
71.042	49.003	S 105.093	W 10.16		10.83		0.67		0.67		
71.083	49.223	S 105.023	W 9.60		10.19		0.67		0.59		
71.125	49.467	S 105.035	W 9.19		9.74		0.67		0.55		
71.167	49.720	S 105.037	W 9.19		9.73		0.67		0.54		
71.208	49.957	S 105.997	W 9.25		9.81		0.67		0.56		
71.250	50.028	S 104.967	W 9.26		9.84		0.67		0.58		
71.292	50.048	S 104.967	W 9.26		9.82		0.67		0.56		
71.333	50.138	S 105.003	W 9.08		9.63		0.67		0.55		
71.375	50.347	S 105.058	W 9.15		9.67		0.67		0.53		
71.417	50.608	S 105.013	W 9.32		9.85		0.67		0.53		
71.458	50.862	S 105.010	W 8.99		9.54		0.67		0.54		
71.500	51.113	S 105.012	W 8.52		9.08		0.67		0.56		
71.542	51.365	S 104.997	W 8.36		8.93		0.68		0.57		
71.583	51.618	S 105.000	W 8.28		8.84		0.68		0.56		
71.625	51.852	S 105.018	W 8.30		8.89		0.68		0.59		
71.667	52.025	S 105.045	W 8.38		8.98		0.67		0.60		
71.708	52.030	S 105.068	W 8.39		9.00		0.67		0.62		
71.750	52.035	S 105.068	W 8.40		9.03		0.67		0.63		
71.792	52.043	S 105.013	W 8.41		9.04		0.67		0.62		
71.833	52.062	S 105.022	W 8.43		9.07		0.67		0.64		
71.875	52.015	S 105.030	W 8.48		9.12		0.67		0.64		
71.917	52.045	S 105.028	W 8.53		9.19		0.67		0.66		
71.958	52.038	S 105.038	W 8.55		9.19		0.67		0.65		
72.000	52.155	S 105.028	W 8.36		8.97		0.67		0.61		
72.042	52.395	S 105.057	W 8.29		8.87		0.68		0.58		
72.083	52.622	S 105.017	W 8.09		8.75		0.68		0.66		
72.125	52.932	S 105.010	W 8.11		8.82		0.68		0.71		
72.167	53.188	S 105.005	W 8.10		8.80		0.68		0.71		
72.208	53.340	S 105.010	W 7.90		8.62		0.68		0.71		
72.250	53.578	S 104.993	W 7.64		8.37		0.68		0.73		
72.292	53.830	S 104.995	W 7.37		8.11		0.68		0.74		
72.333	53.993	S 105.002	W 7.41		8.16		0.68		0.75		
72.375	54.082	S 104.990	W 7.41		8.17		0.68		0.76		
72.417	54.095	S 104.990	W 7.39		8.15		0.68		0.75		
72.458	54.260	S 105.008	W 7.41		8.15		0.68		0.74		
72.500	54.455	S 105.043	W 7.38		8.10		0.68		0.72		
72.542	54.680	S 105.038	W 7.41		8.12		0.68		0.72		
72.583	54.903	S 105.035	W 7.45		8.16		0.68		0.71		
72.625	55.058	S 105.087	W 7.47		8.19		0.68		0.72		
72.667	55.168	S 105.093	W 7.50		8.20		0.68		0.71		
72.708	55.470	S 105.033	W 7.46		8.16		0.68		0.70		
72.750	55.747	S 104.970	W 7.13		7.85		0.68		0.73		
72.792	55.988	S 105.005	W 6.89		7.64		0.68		0.75		
72.833	56.010	S 105.027	W 6.93		7.69		0.68		0.76		

RITS/CO2 1989														
Date	GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr.	Warming	Flag	Point-by-point	Flag
72.875		56.022	S	105.050	W	6.90		7.66		0.68			0.76	
72.917		56.047	S	105.020	W	6.92		7.68		0.68			0.75	
72.958		56.078	S	105.110	W	6.85		7.61		0.68			0.76	
73.000		56.100	S	105.127	W	6.81		7.57		0.68			0.76	
73.042		56.115	S	105.143	W	6.80		7.56		0.68			0.76	
73.083		56.113	S	105.145	W	6.79		7.57		0.68			0.78	
73.125		56.105	S	105.175	W	6.79		7.57		0.68			0.78	
73.167		56.182	S	105.187	W	6.81		7.58		0.68			0.77	
73.208		56.260	S	105.152	W	6.77		7.53		0.68			0.76	
73.250		56.427	S	105.130	W	6.62		7.39		0.68			0.77	
73.292		56.712	S	105.123	W	5.81		6.61		0.68			0.80	
73.333		56.960	S	105.068	W	5.77		6.57		0.68			0.80	
73.375		57.195	S	105.093	W	5.79		6.58		0.68			0.79	
73.417		57.428	S	105.110	W	6.05		6.83		0.68			0.77	
73.458		57.663	S	105.102	W	6.08		6.86		0.68			0.78	
73.500		57.905	S	105.070	W	5.76		6.56		0.68			0.80	
73.542		58.127	S	105.048	W	6.05		6.82		0.68			0.77	
73.583		58.357	S	105.010	W	5.80		6.61		0.68			0.81	
73.625		58.548	S	104.997	W	5.16		5.99		0.68			0.83	
73.667		58.790	S	104.978	W	5.15		5.97		0.68			0.82	
73.708		59.027	S	104.970	W	5.03		5.86		0.68			0.83	
73.750		59.255	S	104.980	W	5.00		5.71		0.68			0.71	
73.792		59.442	S	104.980	W	4.73		5.46		0.68			0.73	
73.833		59.670	S	104.947	W	4.38		5.12		0.69			0.75	
73.875		59.912	S	104.967	W	4.24		4.99		0.69			0.75	
73.917		60.008	S	104.920	W	4.25		5.01		0.69			0.76	
73.958		60.033	S	105.108	W	4.20		4.97		0.69			0.76	
74.000		60.057	S	105.193	W	4.22		4.98		0.69			0.76	
74.042		60.078	S	105.298	W	4.20		4.96		0.69			0.77	
74.083		60.085	S	105.403	W	4.17		4.94		0.69			0.77	
74.125		60.080	S	105.503	W	4.09		4.86		0.69			0.77	
74.167		60.065	S	105.585	W	4.17		4.93		0.69			0.76	
74.208		60.042	S	105.690	W	4.33		5.08		0.69			0.75	
74.250		60.110	S	105.777	W	4.39		5.12		0.69			0.74	
74.292		59.992	S	105.885	W	4.65		5.36		0.69			0.71	
74.333		59.975	S	105.987	W	4.53		5.23		0.69			0.71	
74.375		59.958	S	106.113	W	4.46		5.16		0.69			0.70	
74.417		59.945	S	106.195	W	4.46		5.16		0.69			0.69	
74.458		59.953	S	106.267	W	4.48		5.18		0.69			0.69	
74.500		59.963	S	106.345	W	4.45		5.15		0.69			0.70	
74.542		59.958	S	106.433	W	4.39		5.08		0.69			0.69	
74.583		59.953	S	106.502	W	4.37		5.05		0.69			0.69	
74.625		59.935	S	106.583	W	4.38		5.06		0.69			0.68	
74.667		59.913	S	106.642	W	4.41		5.10		0.69			0.70	
74.708		59.912	S	106.703	W	4.42		5.12		0.69			0.69	
74.750		59.940	S	106.807	W	4.47		5.18		0.69			0.71	
74.792		59.960	S	106.955	W	4.53		5.21		0.69			0.68	
74.833		59.977	S	107.127	W	4.45		5.12		0.69			0.67	
74.875		59.993	S	107.243	W	4.49		5.18		0.69			0.68	
74.917		60.002	S	107.380	W	4.55		5.23		0.69			0.68	

RITS/CO2 1989												
Date GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr.	Warming	Flag	Point-by-point	Flag	
74.958	60.025	S 107.527	W 4.47	5.17		0.69			0.70			
75.000	60.043	S 107.655	W 4.34	5.05		0.69			0.71			
75.042	60.057	S 107.718	W 4.34	5.02		0.69			0.68			
75.083	60.098	S 107.878	W 4.34	5.01		0.69			0.66			
75.125	60.177	S 108.080	W 4.35	5.03		0.69			0.68			
75.167	60.150	S 108.080	W 4.33	5.01		0.69			0.67			
75.208	60.150	S 108.365	W 4.34	5.00		0.69			0.67			
75.250	60.170	S 108.602	W 4.39	5.05		0.69			0.66			
75.292	60.193	S 108.822	W 4.50	5.14		0.69			0.65			
75.333	60.225	S 109.025	W 4.10	4.77		0.69			0.67			
75.375	60.252	S 109.212	W 3.91	4.57		0.69			0.66			
75.417	60.273	S 109.405	W 3.95	4.62		0.69			0.67			
75.458	60.305	S 109.588	W 3.94	4.61		0.69			0.67			
75.500	60.320	S 109.773	W 3.92	4.59		0.69			0.67			
75.542	60.375	S 109.945	W 3.90	4.57		0.69			0.67			
75.583	60.425	S 110.085	W 3.85	4.51		0.69			0.66			
75.625	60.477	S 110.228	W 3.85	4.54		0.69			0.70			
75.667	60.512	S 110.357	W 3.95	4.65		0.69			0.70			
75.708	60.550	S 110.487	W 4.33	5.00		0.69			0.67			
75.750	60.547	S 110.518	W 4.46	5.16		0.69			0.69			
75.792	60.548	S 110.568	W 4.47	5.16		0.69			0.68			
75.833	60.547	S 110.598	W 4.47	5.14		0.69			0.67			
75.875	60.565	S 110.617	W 4.48	5.13		0.69			0.65			
75.917	60.567	S 110.642	W 4.51	5.17		0.69			0.66			
75.958	60.570	S 110.647	W 4.55	5.20		0.69			0.65			
76.000	60.572	S 110.670	W 4.48	5.13		0.69			0.65			
76.042	60.592	S 110.747	W 4.31	4.95		0.69			0.64			
76.083	60.647	S 110.830	W 4.31	4.94		0.69			0.63			
76.125	60.727	S 110.997	W 4.35	4.97		0.69			0.62			
76.167	60.687	S 110.968	W 4.41	5.03		0.69			0.62			
76.208	60.718	S 111.057	W 4.45	5.08		0.69			0.62			
76.250	60.737	S 111.128	W 4.56	5.18		0.69			0.62			
76.292	60.745	S 111.188	W 4.57	5.19		0.69			0.62			
76.333	60.783	S 111.253	W 4.56	5.19		0.69			0.63			
76.375	60.807	S 111.337	W 4.54	5.18		0.69			0.63			
76.417	60.833	S 111.417	W 4.52	5.15		0.69			0.63			
76.458	60.862	S 111.493	W 4.43	5.07		0.69			0.64			
76.500	60.892	S 111.577	W 4.50	5.14		0.69			0.64			
76.542	60.923	S 111.658	W 4.40	5.05		0.69			0.65			
76.583	60.952	S 111.722	W 4.35	5.01		0.69			0.65			
76.625	60.972	S 111.788	W 4.22	4.94		0.69			0.72			
76.667	61.000	S 111.857	W 4.08	4.82		0.69			0.74			
76.708	61.057	S 111.918	W 4.08	4.78		0.69			0.70			
76.750	61.063	S 112.000	W 4.08	4.75		0.69			0.67			
76.792	60.853	S 112.043	W 4.51	5.15		0.69			0.64			
76.833	60.562	S 111.950	W 4.52	5.20		0.69			0.69			
76.875	60.285	S 111.935	W 4.35	5.05		0.69			0.70			
76.917	60.020	S 111.889	W 4.46	5.15		0.69			0.69			
76.958	59.762	S 111.845	W 4.29	4.97		0.69			0.68			
77.000	59.498	S 111.788	W 4.09	4.76		0.69			0.68			

RITS/CO2 1989											
Date	GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
77.042		59.255	S	111.607	W	4.38		5.03		0.69	0.66
77.083		58.988	S	111.585	W	4.60		5.24		0.69	0.64
77.125		58.738	S	111.562	W	5.23		5.83		0.68	0.60
77.167		58.488	S	111.538	W	5.13		5.78		0.68	0.65
77.208		58.243	S	111.528	W	4.87		5.52		0.69	0.65
77.250		58.000	S	111.510	W	4.81		5.48		0.69	0.67
77.292		57.890	S	111.590	W	4.83		5.49		0.69	0.65
77.333		57.955	S	111.907	W	4.96		5.60		0.68	0.65
77.375		57.988	S	112.013	W	5.01		5.67		0.68	0.66
77.417		58.003	S	112.078	W	4.95		5.61		0.68	0.66
77.458		58.030	S	112.165	W	5.07		5.72		0.68	0.65
77.500		58.048	S	112.227	W	5.05		5.71		0.68	0.66
77.542		58.052	S	112.277	W	5.04		5.71		0.68	0.67
77.583		58.070	S	112.312	W	4.94		5.61		0.68	0.67
77.625		58.090	S	112.370	W	4.92		5.59		0.68	0.67
77.667		58.110	S	112.368	W	4.87		5.55		0.69	0.69
77.708		58.127	S	112.398	W	4.85		5.54		0.69	0.69
77.750		58.043	S	112.137	W	5.01		5.67		0.68	0.66
77.792		57.988	S	111.982	W	5.09		5.76		0.68	0.67
77.833		58.008	S	112.032	W	5.01		5.69		0.68	0.68
77.875		58.028	S	112.058	W	4.83		5.51		0.69	0.68
77.917		58.052	S	112.090	W	4.85		5.51		0.69	0.66
77.958		58.085	S	112.123	W	4.90		5.57		0.68	0.67
78.000		58.117	S	112.160	W	4.98		5.66		0.68	0.67
78.042		58.148	S	112.185	W	4.93		5.62		0.68	0.69
78.083		58.158	S	112.202	W	4.91		5.60		0.68	0.69
78.125		58.172	S	112.277	W	4.84		5.53		0.69	0.69
78.167		58.157	S	112.263	W	4.87		5.56		0.69	0.69
78.208		57.987	S	111.980	W	4.92		5.62		0.68	0.69
78.250		57.997	S	112.003	W	4.94	H	*		0.68	*
78.292		58.022	S	112.083	W	4.96	H	*		0.68	*
78.333		58.020	S	112.078	W	4.98	H	*		0.68	*
78.375		58.028	S	112.117	W	5.00	H	*		0.68	*
78.417		58.028	S	112.135	W	5.02	H	*		0.68	*
78.458		58.053	S	112.348	W	5.04	H	*		0.68	*
78.500		58.065	S	112.790	W	5.06	H	*		0.68	*
78.542		58.055	S	113.277	W	5.08	H	*		0.68	*
78.583		58.042	S	113.753	W	5.10	H	*		0.68	*
78.625		58.042	S	114.253	W	5.12	H	*		0.68	*
78.667		58.043	S	114.725	W	5.14	H	*		0.68	*
78.708		58.063	S	115.183	W	5.16	H	*		0.68	*
78.750		58.070	S	115.597	W	5.18	H	*		0.68	*
78.792		58.085	S	116.067	W	5.20	H	*		0.68	*
78.833		58.067	S	116.400	W	5.22	H	*		0.68	*
78.875		58.070	S	116.713	W	5.24		5.86		0.68	0.62
78.917		58.053	S	117.195	W	5.28		5.90		0.68	0.62
78.958		58.015	S	117.607	W	5.17		5.80		0.68	0.63
79.000		57.992	S	118.052	W	4.63		5.29		0.69	0.67
79.042		57.980	S	118.432	W	4.55		5.20		0.69	0.65
79.083		57.980	S	118.835	W	4.50		5.16		0.69	0.66

Date GMT	Latitude	Longitude	RITS/CO2 1989							
			Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
79.125	57.992	S 119.223	W	4.30	4.97		0.69		0.67	
79.167	58.005	S 119.618	W	4.21	4.88		0.69		0.67	
79.208	57.913	S 119.622	W	4.20	4.88		0.69		0.68	
79.250	57.913	S 119.522	W	4.26	4.94		0.69		0.68	
79.292	57.917	S 119.618	W	4.24	4.93		0.69		0.69	
79.333	57.912	S 119.623	W	4.24	4.93		0.69		0.69	
79.375	57.902	S 119.667	W	4.18	4.88		0.69		0.70	
79.417	57.903	S 119.687	W	4.12	4.82		0.69		0.70	
79.458	57.908	S 119.718	W	4.04	4.74		0.69		0.71	
79.500	57.908	S 119.735	W	3.80	4.52		0.69		0.72	
79.542	57.898	S 119.743	W	3.78	4.50		0.69		0.72	
79.583	57.892	S 119.760	W	3.79	4.50		0.69		0.71	
79.625	57.882	S 119.817	W	3.84	4.55		0.69		0.71	
79.667	57.888	S 119.865	W	3.99	4.70		0.69		0.71	
79.708	57.870	S 119.997	W	4.01	4.71		0.69		0.70	
79.750	57.673	S 120.345	W	3.92	4.63		0.69		0.71	
79.792	57.463	S 120.585	W	3.98	4.68		0.69		0.70	
79.833	57.340	S 120.785	W	4.07	4.76		0.69		0.70	
79.875	57.212	S 120.967	W	4.04	4.74		0.69		0.70	
79.917	57.025	S 121.182	W	4.02	4.71		0.69		0.69	
79.958	57.003	S 121.222	W	4.07	4.75		0.69		0.68	
80.000	56.988	S 121.227	W	4.09	4.79		0.69		0.69	
80.042	56.947	S 121.347	W	4.22	4.91		0.69		0.69	
80.083	56.918	S 121.415	W	4.23	4.92		0.69		0.69	
80.125	56.948	S 121.277	W	4.14	4.85		0.69		0.70	
80.167	56.983	S 121.203	W	3.99	4.70		0.69		0.71	
80.208	56.973	S 121.227	W	3.95	4.66		0.69		0.71	
80.250	56.972	S 121.277	W	4.04	4.74		0.69		0.70	
80.292	56.990	S 121.308	W	4.10	4.82		0.69		0.71	
80.333	56.967	S 121.353	W	4.10	4.82		0.69		0.72	
80.375	56.962	S 121.368	W	4.14	4.86		0.69		0.72	
80.417	56.958	S 121.400	W	4.18	4.89		0.69		0.72	
80.458	56.932	S 121.432	W	4.24	4.95		0.69		0.71	
80.500	56.857	S 121.492	W	4.36	5.07		0.69		0.71	
80.542	56.745	S 121.608	W	4.39	5.10		0.69		0.71	
80.583	56.640	S 121.737	W	4.46	5.17		0.69		0.71	
80.625	56.457	S 121.980	W	4.66	5.36		0.69		0.70	
80.667	56.397	S 122.052	W	5.44	6.08		0.68		0.64	
80.708	56.298	S 122.163	W	5.61	6.25		0.68		0.65	
80.750	56.183	S 122.075	W	5.69	6.34		0.68		0.65	
80.792	56.123	S 122.210	W	5.77	6.42		0.68		0.65	
80.833	56.077	S 122.312	W	5.85	6.50		0.68		0.65	
80.875	56.035	S 122.413	W	5.90	6.55		0.68		0.65	
80.917	55.993	S 122.470	W	5.92	6.57		0.68		0.64	
80.958	55.992	S 122.530	W	5.93	6.58		0.68		0.64	
81.000	55.983	S 122.568	W	5.95	6.59		0.68		0.64	
81.042	55.975	S 122.618	W	5.96	6.60		0.68		0.64	
81.083	55.963	S 122.653	W	5.97	6.60		0.68		0.63	
81.125	55.970	S 122.650	W	5.97	6.60		0.68		0.63	
81.167	55.968	S 122.675	W	5.98	6.61		0.68		0.63	

RITS/CO <sub>2</sub> 1989												
Date	GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
81.208		55.963	S 122.683	W 5.99		6.63		0.68		0.63		
81.250		55.938	S 122.680	W 5.98		6.61		0.68		0.63		
81.292		55.960	S 122.852	W 5.96		6.59		0.68		0.64		
81.333		55.920	S 122.955	W 5.91		6.54		0.68		0.64		
81.375		55.807	S 123.137	W 5.90		6.53		0.68		0.63		
81.417		55.740	S 123.283	W 6.00		6.63		0.68		0.63		
81.458		55.567	S 123.478	W 6.09		6.72		0.68		0.63		
81.500		55.458	S 123.637	W 6.22		7.02		0.68		0.81		
81.542		55.333	S 123.792	W 6.52		7.30		0.68		0.78		
81.583		55.207	S 123.942	W 6.76		7.54		0.68		0.78		
81.625		55.045	S 124.170	W 6.58		7.37		0.68		0.78		
81.667		54.898	S 124.370	W 6.53		7.31		0.68		0.78		
81.708		54.740	S 124.585	W 6.51		7.30		0.68		0.79		
81.750		54.558	S 124.757	W 6.68		7.45		0.68		0.77		
81.792		54.368	S 124.897	W 6.95		7.72		0.68		0.76		
81.833		54.180	S 125.050	W 7.06		7.83		0.68		0.77		
81.875		54.008	S 125.267	W 6.99		7.78		0.68		0.79		
81.917		53.963	S 125.297	W 7.01		7.81		0.68		0.80		
81.958		53.942	S 125.325	W 7.05		7.84		0.68		0.79		
82.000		53.977	S 125.362	W 7.08		7.86		0.68		0.78		
82.042		53.970	S 125.412	W 7.11		7.87		0.68		0.77		
82.083		53.967	S 125.432	W 7.10		7.86		0.68		0.76		
82.125		53.970	S 125.467	W 7.09		7.83		0.68		0.74		
82.167		53.973	S 125.485	W 7.09		7.83		0.68		0.73		
82.208		53.883	S 125.623	W 7.10		7.83		0.68		0.73		
82.250		53.657	S 125.812	W 6.78		7.54		0.68		0.76		
82.292		53.478	S 125.973	W 6.92		7.66		0.68		0.74		
82.333		53.318	S 126.118	W 7.03		7.76		0.68		0.73		
82.375		53.182	S 126.220	W 7.71		8.40		0.68		0.69		
82.417		52.968	S 126.405	W 7.91		8.59		0.68		0.69		
82.458		52.760	S 126.600	W 7.32		8.07		0.68		0.74		
82.500		52.552	S 126.835	W 7.02		7.76		0.68		0.75		
82.542		52.358	S 127.075	W 7.00		7.75		0.68		0.75		
82.583		52.155	S 127.300	W 7.32		8.04		0.68		0.72		
82.625		52.000	S 127.518	W 7.79		8.51		0.68		0.72		
82.667		51.975	S 127.527	W 7.82		8.55		0.68		0.73		
82.708		51.972	S 127.527	W 7.80		8.54		0.68		0.74		
82.750		51.850	S 127.710	W 7.76		8.50		0.68		0.74		
82.792		51.638	S 127.935	W 7.83		8.57		0.68		0.74		
82.833		51.543	S 128.048	W 8.01		8.70		0.68		0.68		
82.875		51.283	S 128.373	W 8.20		8.88		0.68		0.68		
82.917		51.162	S 128.532	W 8.31		8.98		0.68		0.66		
82.958		50.995	S 128.713	W 8.43		9.05		0.67		0.63		
83.000		50.852	S 128.880	W 8.59		9.20		0.67		0.61		
83.042		50.733	S 129.040	W 8.60		9.21		0.67		0.60		
83.083		50.618	S 129.218	W 8.51		9.13		0.67		0.62		
83.125		50.502	S 129.388	W 8.47		9.09		0.67		0.62		
83.167		50.385	S 129.560	W 8.69		9.29		0.67		0.61		
83.208		50.253	S 129.713	W 9.12		9.70		0.67		0.58		
83.250		50.132	S 129.883	W 9.22		9.79		0.67		0.58		

RITS/CO2 1989											
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
83.292	50.028	S	130.047	W	9.33	9.91		0.67		0.59	
83.333	50.035	S	130.085	W	9.33	9.92		0.67		0.59	
83.375	50.040	S	130.107	W	9.34	9.93		0.67		0.59	
83.417	50.278	S	130.555	W	9.31	9.90		0.67		0.59	
83.458	50.075	S	130.235	W	9.30	9.89		0.67		0.59	
83.500	50.073	S	130.280	W	9.30	9.89		0.67		0.59	
83.542	50.075	S	130.332	W	9.34	9.93		0.67		0.59	
83.583	50.077	S	130.385	W	9.34	9.93		0.67		0.59	
83.625	50.073	S	130.458	W	9.14	9.74		0.67		0.60	
83.667	50.073	S	130.517	W	9.20	9.81		0.67		0.61	
83.708	50.043	S	130.547	W	9.25	9.85		0.67		0.60	
83.750	50.023	S	130.448	W	9.28	9.88		0.67		0.59	
83.792	49.993	S	130.100	W	9.33	9.90		0.67		0.57	
83.833	49.970	S	129.948	W	9.30	9.90		0.67		0.60	
83.875	49.835	S	129.775	W	9.19	9.80		0.67		0.61	
83.917	49.618	S	129.643	W	9.24	9.86		0.67		0.62	
83.958	49.367	S	129.558	W	9.15	9.77		0.67		0.62	
84.000	49.147	S	129.352	W	9.25	9.86		0.67		0.60	
84.042	48.977	S	129.258	W	9.51	10.09		0.67		0.58	
84.083	48.968	S	129.627	W	9.31	9.89		0.67		0.58	
84.125	48.987	S	129.940	W	9.28	9.85		0.67		0.56	
84.167	49.007	S	130.023	W	9.28	9.87		0.67		0.59	
84.208	49.008	S	130.043	W	9.26	9.86		0.67		0.60	
84.250	49.018	S	130.062	W	9.25	9.86		0.67		0.60	
84.292	49.018	S	130.082	W	9.25	9.86		0.67		0.62	
84.333	49.032	S	130.082	W	9.24	9.87		0.67		0.62	
84.375	49.055	S	130.228	W	9.22	9.86		0.67		0.63	
84.417	49.013	S	130.333	W	9.21	9.85		0.67		0.64	
84.458	48.762	S	130.268	W	9.55	10.16		0.67		0.61	
84.500	48.505	S	130.265	W	9.95	10.56		0.67		0.60	
84.542	48.252	S	130.258	W	10.01	10.60		0.67		0.60	
84.583	47.955	S	130.242	W	10.00	10.60		0.67		0.60	
84.625	47.767	S	130.235	W	9.97	10.57		0.67		0.60	
84.667	47.547	S	130.218	W	10.45	11.02		0.67		0.57	
84.708	47.290	S	130.163	W	10.51	11.10		0.67		0.59	
84.750	46.982	S	130.068	W	10.70	11.29		0.67		0.59	
84.792	46.723	S	130.032	W	10.65	11.26		0.67		0.61	
84.833	46.490	S	130.060	W	10.75	11.33		0.67		0.57	
84.875	46.233	S	130.013	W	11.16	11.83		0.67		0.67	
84.917	46.007	S	130.017	W	11.14	11.91		0.67		0.77	
84.958	46.023	S	130.032	W	11.16	11.95		0.67		0.79	
85.000	46.030	S	130.033	W	11.15	11.94		0.67		0.79	
85.042	46.037	S	130.037	W	11.14	11.91		0.67		0.78	
85.083	46.042	S	130.040	W	11.17	11.93		0.67		0.76	
85.125	45.815	S	129.968	W	11.41	12.13		0.67		0.72	
85.167	45.552	S	129.968	W	11.46	12.18		0.67		0.71	
85.208	45.290	S	129.978	W	11.52	12.23		0.67		0.71	
85.250	45.027	S	129.985	W	11.84	12.53		0.67		0.69	
85.292	44.763	S	129.985	W	11.98	12.66		0.66		0.68	
85.333	44.505	S	129.973	W	11.94	12.63		0.66		0.69	

RITS/CO2 1989											
Date GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr.	Warming	Flag	Point-by-point	Flag
85.375	44.263	S 129.992	W 12.41		13.06		0.66			0.65	
85.417	44.007	S 130.000	W 12.48		13.14		0.66			0.66	
85.458	44.008	S 130.002	W 12.47		13.14		0.66			0.67	
85.500	43.987	S 129.992	W 12.68		13.34		0.66			0.66	
85.542	43.948	S 129.982	W 13.02		13.67		0.66			0.66	
85.583	43.928	S 129.945	W 12.92		13.58		0.66			0.66	
85.625	43.902	S 129.938	W 12.67		13.34		0.66			0.67	
85.667	43.890	S 129.943	W 12.52		13.19		0.66			0.67	
85.708	43.853	S 129.935	W 12.70		13.35		0.66			0.64	
85.750	43.630	S 129.920	W 13.53		14.13		0.66			0.60	
85.792	43.403	S 129.897	W 13.98		14.56		0.66			0.58	
85.833	43.135	S 129.983	W 14.18		14.77		0.66			0.58	
85.875	42.893	S 130.008	W 14.17		14.76		0.66			0.59	
85.917	42.638	S 129.978	W 15.26		15.77		0.66			0.51	
85.958	42.387	S 129.980	W 15.66		16.15		0.65			0.49	
86.000	42.133	S 129.987	W 15.61		16.13		0.65			0.51	
86.042	41.995	S 129.992	W 16.12		16.61		0.65			0.49	
86.083	41.982	S 129.973	W 16.09		16.60		0.65			0.51	
86.125	41.968	S 129.953	W 15.95		16.48		0.65			0.53	
86.167	41.748	S 129.943	W 15.70		16.20		0.65			0.51	
86.208	41.492	S 129.943	W 15.60		16.10		0.65			0.51	
86.250	41.233	S 129.952	W 15.71		16.22		0.65			0.51	
86.292	40.973	S 129.962	W 16.08		16.62		0.65			0.54	
86.333	40.717	S 129.972	W 16.42		17.09		0.65			0.67	
86.375	40.460	S 129.990	W 16.51		17.18		0.65			0.66	
86.417	40.197	S 130.002	W 16.70		17.36		0.65			0.66	
86.458	40.002	S 129.993	W 16.84		17.51		0.65			0.67	
86.500	39.997	S 129.982	W 16.86		17.53		0.65			0.67	
86.542	39.983	S 129.948	W 16.88		17.56		0.65			0.68	
86.583	39.983	S 129.932	W 16.83		17.52		0.65			0.69	
86.625	39.990	S 129.915	W 16.80		17.48		0.65			0.69	
86.667	39.977	S 129.872	W 16.70		17.40		0.65			0.70	
86.708	39.977	S 129.855	W 16.55		17.26		0.65			0.72	
86.750	40.000	S 129.812	W 16.45		17.18		0.65			0.73	
86.792	39.987	S 129.818	W 16.67		17.40		0.65			0.73	
86.833	40.012	S 130.065	W 16.86		17.61		0.65			0.76	
86.875	40.010	S 130.050	W 16.90		17.64		0.65			0.74	
86.917	39.995	S 129.985	W 16.97		17.69		0.65			0.72	
86.958	39.992	S 130.027	W 16.95		17.69		0.65			0.75	
87.000	40.002	S 130.007	W 17.01		17.77		0.65			0.76	
87.042	39.993	S 129.980	W 17.05		17.84		0.65			0.79	
87.083	39.995	S 129.960	W 17.03		17.75		0.65			0.72	
87.125	39.957	S 129.970	W 16.96		17.64		0.65			0.68	
87.167	39.752	S 130.175	W 16.73		17.41		0.65			0.68	
87.208	39.562	S 130.380	W 16.41		17.12		0.65			0.71	
87.250	39.382	S 130.643	W 16.59	H	*		0.65			*	
87.292	39.117	S 130.890	W 16.77	H	*		0.65			*	
87.333	39.027	S 131.152	W 16.95	H	*		0.65			*	
87.375	38.855	S 131.397	W 17.13	H	*		0.65			*	
87.417	38.680	S 131.642	W 17.31	H	*		0.65			*	

RITS/CO2 1989												
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
87.458	38.517	S	131.908	W	17.49	H	*	0.65			*	
87.500	38.350	S	132.170	W	17.68	H	*	0.65			*	
87.542	38.198	S	132.418	W	17.86	H	*	0.65			*	
87.583	38.030	S	132.683	W	18.04	H	*	0.65			*	
87.625	37.850	S	132.937	W	18.22	H	*	0.65			*	
87.667	37.662	S	133.188	W	18.40	H	*	0.64			*	
87.708	37.488	S	133.428	W	18.58	H	*	0.64			*	
87.750	37.268	S	133.280	W	18.76		19.42		0.64		0.67	
87.792	37.250	S	133.325	W	18.83		19.52		0.64		0.69	
87.833	37.243	S	133.328	W	18.85		19.54		0.64		0.68	
87.875	37.237	S	133.325	W	18.88		19.57		0.64		0.70	
87.917	37.232	S	133.382	W	18.92		19.61		0.64		0.69	
87.958	37.152	S	133.327	W	18.96		19.59		0.64		0.63	
88.000	36.920	S	133.167	W	18.99		19.59		0.64		0.60	
88.042	36.687	S	133.002	W	19.33		19.90		0.64		0.57	
88.083	36.472	S	133.048	W	19.49		20.04		0.64		0.56	
88.125	36.258	S	133.253	W	20.46		20.95		0.64		0.49	
88.167	36.052	S	133.477	W	20.55		21.04		0.64		0.49	
88.208	35.847	S	133.687	W	20.48		20.99		0.64		0.51	
88.250	35.510	S	133.888	W	20.49		21.00		0.64		0.51	
88.292	35.425	S	133.095	W	20.42		20.93		0.64		0.51	
88.333	35.218	S	134.313	W	20.75		21.24		0.64		0.49	
88.375	35.033	S	134.487	W	21.12		21.68		0.64		0.56	
88.417	34.795	S	134.710	W	21.55		22.19		0.64		0.65	
88.458	34.588	S	134.903	W	21.89		22.52		0.64		0.63	
88.500	34.373	S	135.005	W	22.11		22.73		0.64		0.62	
88.542	34.165	S	135.310	W	22.33		22.94		0.63		0.62	
88.583	33.963	S	135.512	W	22.46		23.06		0.63		0.61	
88.625	33.768	S	135.708	W	22.22		22.86		0.64		0.64	
88.667	33.565	S	135.907	W	22.82		23.38		0.63		0.56	
88.708	33.365	S	136.100	W	22.49		23.10		0.63		0.61	
88.750	33.177	S	136.277	W	22.24		22.87		0.64		0.63	
88.792	32.957	S	136.480	W	22.81		23.41		0.63		0.60	
88.833	32.758	S	136.682	W	23.04		23.63		0.63		0.59	
88.875	32.557	S	136.867	W	23.10		23.71		0.63		0.61	
88.917	32.350	S	137.058	W	23.23		23.83		0.63		0.61	
88.958	32.142	S	137.267	W	23.30		23.91		0.63		0.61	
89.000	31.932	S	137.488	W	23.28		23.89		0.63		0.61	
89.042	31.747	S	137.610	W	23.23		23.84		0.63		0.62	
89.083	31.635	S	137.802	W	23.05		23.69		0.63		0.64	
89.125	31.518	S	138.007	W	23.12		23.73		0.63		0.61	
89.167	31.325	S	138.202	W	23.46		24.05		0.63		0.59	
89.208	31.135	S	138.395	W	23.96		24.52		0.63		0.56	
89.250	30.942	S	138.588	W	23.73		24.32		0.63		0.59	
89.292	30.760	S	138.780	W	23.81		24.39		0.63		0.59	
89.333	30.533	S	138.870	W	23.96		24.52		0.63		0.56	
89.375	30.350	S	139.097	W	24.43		24.97		0.63		0.54	
89.417	30.160	S	139.332	W	24.52		25.07		0.63		0.55	
89.458	29.960	S	139.510	W	24.69		25.22		0.63		0.53	
89.500	29.755	S	139.680	W	24.69		25.21		0.63		0.52	

RITS/CO2 1989											
Date GMT	Latitude		Longitude	Tas	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
89.542	29.557	S	139.868	W	24.76	25.27		0.63		0.52	
89.583	29.400	S	139.997	W	24.87	25.38		0.63		0.51	
89.625	29.215	S	140.165	W	25.05	25.54		0.63		0.49	
89.667	29.028	S	140.335	W	25.23	25.73		0.63		0.50	
89.708	28.958	S	140.573	W	25.31	25.81		0.63		0.50	
89.750	28.687	S	140.652	W	25.39	25.88		0.63		0.50	
89.792	28.490	S	140.833	W	25.23	25.75		0.63		0.51	
89.833	28.305	S	140.988	W	25.22	25.74		0.63		0.52	
89.875	28.152	S	141.140	W	25.34	25.87		0.63		0.54	
89.917	27.955	S	141.292	W	25.51	26.02		0.63		0.51	
89.958	27.760	S	141.490	W	25.54	26.06		0.63		0.52	
90.000	27.560	S	141.677	W	25.60	26.11		0.63		0.51	
90.042	27.362	S	141.842	W	25.55	26.07		0.63		0.52	
90.083	27.178	S	142.010	W	25.46	25.98		0.63		0.52	
90.125	26.978	S	142.178	W	25.98	26.46		0.62		0.48	
90.167	26.767	S	142.348	W	26.06	26.55		0.62		0.49	
90.208	26.603	S	142.608	W	26.12	26.62		0.62		0.50	
90.250	26.458	S	142.608	W	26.15	26.64		0.62		0.49	
90.292	26.257	S	142.767	W	26.37	27.00		0.62		0.64	
90.333	26.058	S	142.922	W	26.61	27.25		0.62		0.64	
90.375	25.862	S	143.097	W	26.54	27.18		0.62		0.63	
90.417	25.668	S	143.247	W	26.79	27.40		0.62		0.60	
90.458	25.468	S	143.387	W	26.90	27.50		0.62		0.59	
90.500	25.275	S	143.535	W	26.92	27.53		0.62		0.61	
90.542	25.063	S	143.692	W	27.07	27.67		0.62		0.61	
90.583	24.870	S	143.860	W	27.18	27.81		0.62		0.63	
90.625	24.700	S	144.022	W	27.21	27.83		0.62		0.62	
90.667	24.505	S	144.172	W	27.10	27.74		0.62		0.63	
90.708	24.308	S	144.380	W	26.96	27.64		0.62		0.67	
90.750	24.092	S	144.578	W	26.95	27.62		0.62		0.68	
90.792	23.937	S	144.713	W	27.06	27.75		0.62		0.69	
90.833	23.678	S	144.938	W	27.08	27.76		0.62		0.68	
90.875	23.483	S	144.110	W	27.25	27.91		0.62		0.66	
90.917	23.278	S	145.267	W	27.39	28.05		0.62		0.66	
90.958	23.090	S	145.447	W	27.61	28.24		0.62		0.63	
91.000	22.902	S	145.592	W	27.67	28.29		0.62		0.63	
91.042	22.790	S	145.618	W	27.65	28.30		0.62		0.65	
91.083	22.820	S	145.647	W	27.62	28.27		0.62		0.65	
91.125	22.725	S	145.733	W	27.62	28.25		0.62		0.62	
91.167	22.508	S	145.877	W	27.59	28.21		0.62		0.62	
91.208	22.297	S	146.017	W	27.56	28.17		0.62		0.62	
91.250	22.082	S	146.152	W	27.60	28.22		0.62		0.62	
91.292	21.873	S	146.297	W	27.68	28.29		0.62		0.61	
91.333	21.577	S	146.450	W	27.53	28.15		0.62		0.62	
91.375	21.465	S	146.625	W	27.68	28.28		0.62		0.60	
91.417	21.270	S	146.768	W	27.81	28.42		0.62		0.61	
91.458	21.107	S	146.913	W	27.73	28.34		0.62		0.61	
91.500	20.942	S	147.050	W	28.01	28.59		0.62		0.59	
91.542	20.775	S	147.178	W	28.06	28.65		0.62		0.58	
91.583	20.612	S	147.310	W	27.98	28.57		0.62		0.59	

RITS/CO2 1989												
Date GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
91.625	20.450	S	147.443	W	28.07		28.66		0.62		0.58	
91.667	20.293	S	147.590	W	28.17		28.75		0.62		0.58	
91.708	20.127	S	147.720	W	28.17		28.77		0.62		0.61	
91.750	19.957	S	147.878	W	28.02		28.66		0.62		0.64	
91.792	19.873	S	147.925	W	28.24		28.85		0.62		0.62	
91.833	19.715	S	148.048	W	28.41		29.04		0.62		0.63	
91.875	19.645	S	148.093	W	28.37		29.01		0.62		0.64	
91.917	19.565	S	148.140	W	28.42		29.04		0.62		0.62	
91.958	19.492	S	148.222	W	28.52		29.15		0.62		0.64	
92.000	19.487	S	148.230	W	28.52		29.13		0.62		0.61	
92.042	19.463	S	148.262	W	28.59		29.21		0.62		0.62	
92.083	19.438	S	148.285	W	28.47		29.09		0.62		0.62	
92.125	19.288	S	148.408	W	28.47		*		0.62		*	
92.167	19.137	S	148.535	W	28.63		*		0.62		*	
92.208	18.988	S	148.662	W	28.63	H	*		0.62		*	
92.250	18.833	S	148.785	W	28.62		29.17		0.62		0.55	
92.292	18.680	S	148.910	W	28.64		29.19		0.62		0.56	
92.333	18.522	S	149.038	W	28.58		29.14		0.62		0.56	
92.375	18.377	S	149.148	W	28.58		29.14		0.62		0.56	
92.417	18.225	S	149.270	W	28.61		29.17		0.62		0.56	
92.458	18.052	S	149.388	W	28.67		29.22		0.62		0.55	
92.500	17.940	S	149.482	W	28.64		29.19		0.62		0.56	
92.542	17.820	S	149.600	W	28.64		29.20		0.62		0.56	
92.583	17.742	S	149.683	W	28.74		29.29		0.62		0.54	
97.917	15.353	S	148.600	W	28.44		29.05		0.62		0.61	
97.958	15.133	S	148.497	W	28.49		29.09		0.62		0.59	
98.000	14.907	S	148.352	W	28.54		29.14		0.62		0.60	
98.042	14.688	S	148.323	W	28.58		29.16		0.62		0.58	
98.083	14.482	S	148.242	W	28.56		29.15		0.62		0.59	
98.125	14.272	S	148.088	W	28.58		29.16		0.62		0.58	
98.167	14.077	S	147.952	W	28.54		29.11		0.62		0.57	
98.208	13.882	S	147.808	W	28.49		29.07		0.62		0.58	
98.250	13.687	S	147.672	W	28.49		29.06		0.62		0.57	
98.292	13.487	S	147.532	W	28.47		29.02		0.62		0.55	
98.333	13.307	S	147.417	W	28.50		29.05		0.62		0.55	
98.375	13.085	S	147.235	W	28.50		29.03		0.62		0.53	
98.417	12.887	S	147.113	W	28.50	H	*		0.62		*	
98.458	12.670	S	146.988	W	28.50	H	*		0.62		*	
98.500	12.480	S	146.825	W	28.49	H	*		0.62		*	
98.542	12.207	S	146.713	W	28.49	H	*		0.62		*	
98.583	12.113	S	146.597	W	28.49		28.99		0.62		0.49	
98.625	11.935	S	146.463	W	28.52		29.02		0.62		0.50	
98.667	11.743	S	146.330	W	28.58		29.10		0.62		0.52	
98.708	11.523	S	146.190	W	28.60		29.17		0.62		0.56	
98.750	11.327	S	146.060	W	28.54		29.12		0.62		0.58	
98.792	11.127	S	145.928	W	28.54		29.13		0.62		0.59	
98.833	10.920	S	145.802	W	28.52		29.10		0.62		0.58	
98.875	10.713	S	145.670	W	28.51		29.09		0.62		0.58	
98.917	10.502	S	145.550	W	28.49		28.99		0.62		0.50	

RITS/CO2 1989													
Date	GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
98.958		10.320	S	145.435	W	28.48		28.99		0.62		0.51	
99.000		10.123	S	145.308	W	28.50		29.01		0.62		0.51	
99.042		10.013	S	145.232	W	28.46		28.97		0.62		0.51	
99.083		10.027	S	145.247	W	28.43		28.95		0.62		0.52	
99.125		9.998	S	145.242	W	28.42		28.94		0.62		0.52	
99.167		9.832	S	145.142	W	28.45		28.98		0.62		0.52	
99.208		9.637	S	145.017	W	28.50		29.04		0.62		0.54	
99.250		9.447	S	144.878	W	28.45		29.00		0.62		0.55	
99.292		9.292	S	144.755	W	28.33		28.89		0.62		0.56	
99.333		9.070	S	144.605	W	28.33		28.89		0.62		0.56	
99.375		8.877	S	144.475	W	28.37		28.93		0.62		0.57	
99.417		8.673	S	144.345	W	28.38		28.94		0.62		0.56	
99.458		8.470	S	144.217	W	28.40		28.97		0.62		0.57	
99.500		8.272	S	144.083	W	28.31		28.88		0.62		0.57	
99.542		8.070	S	144.965	W	28.27		28.82		0.62		0.55	
99.583		7.865	S	143.837	W	28.29		28.81		0.62		0.53	
99.625		7.658	S	143.705	W	28.33		28.87		0.62		0.54	
99.667		7.445	S	143.565	W	28.19		28.77		0.62		0.58	
99.708		7.237	S	143.427	W	28.08		28.69		0.62		0.62	
99.750		7.045	S	143.277	W	28.09		28.71		0.62		0.62	
99.792		6.858	S	143.152	W	28.14		28.76		0.62		0.62	
99.833		6.637	S	143.007	W	28.15		28.78		0.62		0.63	
99.875		6.430	S	142.887	W	28.16		28.79		0.62		0.63	
99.917		6.232	S	142.750	W	28.20		28.82		0.62		0.62	
99.958		6.018	S	142.613	W	28.21		28.84		0.62		0.63	
100.000		5.813	S	142.478	W	28.24		28.86		0.62		0.63	
100.042		5.595	S	142.352	W	28.30		28.92		0.62		0.62	
100.083		5.387	S	142.222	W	28.23		28.77		0.62		0.55	
100.125		5.175	S	142.093	W	28.03		28.61		0.62		0.57	
100.167		5.007	S	142.002	W	27.91		28.50		0.62		0.59	
100.208		4.950	S	141.954	W	27.75		28.35		0.62		0.60	
100.250		4.892	S	141.905	W	27.69		28.28		0.62		0.59	
100.292		4.695	S	141.782	W	27.51		28.11		0.62		0.61	
100.333		4.503	S	141.642	W	27.26		27.88		0.62		0.62	
100.375		4.300	S	141.538	W	27.00		27.64		0.62		0.64	
100.417		4.107	S	141.397	W	26.89		27.48		0.62		0.59	
100.458		3.928	S	141.238	W	26.91		27.51		0.62		0.61	
100.500		3.740	S	141.102	W	26.83		27.48		0.62		0.65	
100.542		3.550	S	140.990	W	26.72		27.38		0.62		0.66	
100.583		3.382	S	140.825	W	26.71		27.37		0.62		0.66	
100.625		3.200	S	140.690	W	26.71		27.36		0.62		0.65	
100.667		2.995	S	140.582	W	26.66		27.33		0.62		0.67	
100.708		2.808	S	140.443	W	26.52		27.22		0.62		0.70	
100.750		2.610	S	140.305	W	26.20		26.92		0.62		0.72	
100.792		2.415	S	140.188	W	25.93		26.67		0.62		0.74	
100.833		2.215	S	140.057	W	25.77		26.53		0.63		0.76	
100.875		2.010	S	139.978	W	25.68		26.44		0.63		0.76	
100.917		1.785	S	139.985	W	25.52		26.42		0.63		0.90	D
100.958		1.840	S	139.962	W	25.73		26.52		0.63		0.79	
101.000		1.825	S	139.993	W	25.74		26.48		0.63		0.74	

RITS/CO2 1989												
Date GMT	Latitude		Longitude	Tss	Flag	Teq.	Flag	Regr. Warming	Flag	Point-by-point	Flag	
101.042	1.807	S	139.995	W	25.75	26.51		0.63		0.77		
101.083	1.847	S	140.013	W	25.73	26.47		0.63		0.73		
101.125	1.835	S	140.017	W	25.69	26.42		0.63		0.73		
101.167	1.843	S	139.975	W	25.64	26.36		0.63		0.72		
101.208	1.702	S	139.930	W	25.57	26.28		0.63		0.71		
101.250	1.470	S	139.948	W	25.45	26.16		0.63		0.71		
101.292	1.248	S	139.965	W	25.38	26.10		0.63		0.72		
101.333	0.998	S	139.968	W	25.27	26.00		0.63		0.73		
101.375	0.752	S	139.997	W	25.16	25.89		0.63		0.73		
101.417	0.530	S	139.983	W	25.09	25.82		0.63		0.73		
101.458	0.300	S	139.987	W	25.01	25.74		0.63		0.73		
101.500	0.058	S	139.990	W	24.94	25.68		0.63		0.74		
101.542	0.003	S	139.993	W	24.91	25.66		0.63		0.75		
101.583	0.020	N	139.982	W	24.88	25.63		0.63		0.75		
101.625	0.173	N	139.933	W	24.87	25.60		0.63		0.73		
101.667	0.410	N	139.868	W	24.84	25.60		0.63		0.76		
101.708	0.650	N	139.800	W	24.91	25.69		0.63		0.77		
101.750	0.907	N	139.787	W	25.11	25.88		0.63		0.76		
101.792	1.152	N	139.837	W	25.38	26.15		0.63		0.77		
101.833	1.385	N	139.932	W	25.64	26.39		0.63		0.75		
101.875	1.620	N	139.988	W	25.91	26.65		0.62		0.73		
101.917	1.840	N	140.668	W	25.94	H		0.62		*		
101.958	1.858	N	140.083	W	25.97	H		0.62		*		
102.000	1.992	N	140.137	W	26.00	H		0.62		*		
102.042	2.252	N	140.242	W	26.03	H		0.62		*		
102.083	2.480	N	140.343	W	26.07	H		0.62		*		
102.125	2.708	N	140.435	W	26.10	H		0.62		*		
102.167	2.940	N	140.533	W	26.13	H		0.62		*		
102.208	3.170	N	140.630	W	26.16	H		0.62		*		
102.250	3.400	N	140.723	W	26.19	H		0.62		*		
102.292	3.608	N	140.805	W	26.22	H		0.62		*		
102.333	3.903	N	140.907	W	26.25	H		0.62		*		
102.375	4.098	N	140.998	W	26.28	H		0.62		*		
102.417	4.328	N	141.097	W	26.31	H		0.62		*		
102.458	4.563	N	141.190	W	26.35	H		0.62		*		
102.500	4.798	N	141.273	W	26.38	H		0.62		*		
102.542	5.042	N	141.385	W	26.41	H		0.62		*		
102.583	5.280	N	141.477	W	26.44	H		0.62		*		
102.625	5.518	N	141.575	W	26.47	H		0.62		*		
102.667	5.758	N	141.685	W	26.50	H		0.62		*		
102.708	5.997	N	141.788	W	26.53	H		0.62		*		
102.750	6.192	N	141.883	W	26.56	H		0.62		*		
102.792	6.472	N	142.005	W	26.59	H		0.62		*		
102.833	6.580	N	142.002	W	26.63		27.37		0.62		0.74	
102.875	6.690	N	141.998	W	26.65		27.39		0.62		0.74	
102.917	6.725	N	142.042	W	26.67		27.39		0.62		0.72	
102.958	6.958	N	141.953	W	26.74		27.45		0.62		0.71	
103.000	7.208	N	141.863	W	26.66		27.37		0.62		0.72	
103.042	7.443	N	141.785	W	26.68		27.38		0.62		0.70	
103.083	7.675	N	141.702	W	26.70		27.38		0.62		0.68	

RITS/CO2 1989											
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
103.125	7.905	N	141.618	W	26.68	27.36		0.62		0.67	
103.167	8.140	N	141.538	W	26.58	27.25		0.62		0.67	
103.208	8.372	N	141.455	W	26.51	27.18		0.62		0.66	
103.250	8.598	N	141.363	W	26.40	27.06		0.62		0.66	
103.292	8.830	N	141.265	W	26.41	27.07		0.62		0.66	
103.333	9.077	N	141.190	W	26.40	27.06		0.62		0.67	
103.375	9.273	N	141.073	W	26.23	26.89		0.62		0.66	
103.417	9.500	N	141.000	W	26.04	26.72		0.62		0.68	
103.458	9.728	N	140.913	W	25.87	26.55		0.62		0.68	
103.500	9.962	N	140.823	W	25.62	26.32		0.63		0.69	
103.542	10.192	N	140.735	W	25.29	26.00		0.63		0.71	
103.583	10.432	N	140.645	W	25.19	25.96		0.63		0.77	
103.625	10.660	N	140.562	W	25.24	25.95		0.63		0.71	
103.667	10.900	N	140.473	W	25.30	26.03		0.63		0.73	
103.708	11.095	N	140.423	W	25.17	25.92		0.63		0.75	
103.750	11.378	N	140.313	W	25.08	25.84		0.63		0.76	
103.792	11.557	N	140.248	W	25.14	25.90		0.63		0.76	
103.833	11.682	N	140.217	W	25.17	25.93		0.63		0.76	
103.875	11.988	N	140.107	W	25.16	25.92		0.63		0.77	
103.917	12.107	N	140.108	W	25.19	25.98		0.63		0.79	
103.958	12.132	N	140.062	W	25.23	26.00		0.63		0.77	
104.000	12.375	N	139.973	W	25.24	26.00		0.63		0.77	
104.042	12.623	N	139.907	W	25.05	25.82		0.63		0.77	
104.083	12.865	N	139.828	W	24.94	25.57		0.63		0.63	
104.125	13.105	N	139.743	W	24.81	25.38		0.63		0.57	
104.167	13.343	N	139.660	W	24.82	25.36		0.63		0.54	
104.208	13.580	N	139.582	W	24.76	25.31		0.63		0.55	
104.250	13.815	N	139.490	W	24.40	24.96		0.63		0.57	
104.292	14.048	N	139.392	W	24.15	24.72		0.63		0.57	
104.333	14.275	N	139.275	W	24.14	24.71		0.63		0.56	
104.375	14.477	N	139.227	W	24.19	24.75		0.63		0.56	
104.417	14.728	N	139.122	W	24.15	24.71		0.63		0.56	
104.458	14.970	N	138.998	W	24.14	24.69		0.63		0.55	
104.500	15.200	N	138.913	W	23.97	24.53		0.63		0.56	
104.542	15.448	N	138.828	W	23.97	24.54		0.63		0.58	
104.583	15.693	N	138.728	W	23.75	24.34		0.63		0.59	
104.625	15.912	N	138.653	W	23.35	23.95		0.63		0.60	
104.667	16.147	N	138.568	W	23.41	24.03		0.63		0.62	
104.708	16.882	N	138.480	W	23.54	24.17		0.63		0.63	
104.750	16.615	N	138.383	W	23.69	24.31		0.63		0.62	
104.792	16.877	N	138.280	W	23.68	24.30		0.63		0.62	
104.833	17.120	N	138.202	W	23.65	24.28		0.63		0.63	
104.875	17.362	N	138.095	W	23.58	24.22		0.63		0.64	
104.917	17.600	N	137.998	W	23.58	24.23		0.63		0.65	
104.958	17.852	N	137.932	W	24.14	24.74		0.63		0.60	
105.000	18.097	N	137.847	W	24.35	24.95		0.63		0.60	
105.042	18.345	N	137.770	W	24.43	25.01		0.63		0.58	
105.083	18.585	N	137.633	W	24.33	24.92		0.63		0.59	
105.125	18.850	N	137.522	W	23.58	24.20		0.63		0.63	
105.167	19.103	N	137.448	W	23.87	24.45		0.63		0.57	

RITS/CO2 1989												
Date GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
105.208	19.345	N	137.363	W	23.79		24.38		0.63		0.59	
105.250	19.588	N	137.287	W	23.68		24.27		0.63		0.60	
105.292	19.835	N	137.198	W	23.28		23.91		0.63		0.63	
105.333	20.085	N	137.103	W	23.03		23.67		0.63		0.64	
105.375	20.350	N	136.995	W	23.01		23.64		0.63		0.63	
105.417	20.577	N	136.903	W	22.89		23.54		0.63		0.64	
105.458	20.815	N	136.793	W	22.22		22.91		0.64		0.69	
105.500	21.048	N	136.718	W	22.10		22.77		0.64		0.68	
105.542	21.290	N	136.605	W	22.13		22.80		0.64		0.68	
105.583	21.520	N	136.515	W	22.08		22.76		0.64		0.68	
105.625	21.757	N	136.418	W	22.12		22.80		0.64		0.67	
105.667	21.993	N	136.323	W	22.01		22.69		0.64		0.68	
105.708	22.230	N	136.227	W	22.02		22.73		0.64		0.71	
105.750	22.467	N	136.122	W	21.97		22.68		0.64		0.70	
105.792	22.708	N	136.028	W	22.11		22.82		0.64		0.71	
105.833	22.947	N	135.913	W	21.83		22.60		0.64		0.77	
105.875	23.203	N	135.840	W	21.70		22.47		0.64		0.77	
105.917	23.447	N	135.747	W	21.89		22.64		0.64		0.75	
105.958	23.690	N	135.653	W	21.73		22.47		0.64		0.74	
106.000	23.933	N	135.557	W	21.60		22.33		0.64		0.74	
106.042	24.188	N	135.447	W	21.63		22.33		0.64		0.70	
106.083	24.427	N	135.342	W	21.62		22.33		0.64		0.72	
106.125	24.673	N	135.262	W	21.51		22.22		0.64		0.71	
106.167	24.918	N	135.172	W	21.28		21.99		0.64		0.71	
106.208	25.160	N	135.068	W	20.99		21.71		0.64		0.73	
106.250	25.403	N	134.963	W	20.91		21.62		0.64		0.72	
106.292	25.652	N	134.863	W	20.72		21.44		0.64		0.71	
106.333	25.898	N	134.762	W	20.81		21.53		0.64		0.72	
106.375	26.152	N	134.680	W	20.64		21.37		0.64		0.73	
106.417	26.400	N	134.577	W	20.53		21.25		0.64		0.73	
106.458	26.648	N	134.478	W	20.42		21.16		0.64		0.74	
106.500	26.893	N	134.367	W	20.21		20.95		0.64		0.74	
106.542	27.142	N	134.267	W	20.04		20.64		0.64		0.61	
106.583	27.403	N	134.182	W	20.12		20.69		0.64		0.57	
106.625	27.653	N	134.087	W	20.08		20.66		0.64		0.58	
106.667	27.785	N	133.942	W	20.16		20.77		0.64		0.60	
106.708	28.150	N	133.862	W	20.17		20.86		0.64		0.70	
106.750	28.400	N	133.755	W	19.85		20.50		0.64		0.65	
106.792	28.652	N	133.650	W	19.42		20.11		0.64		0.69	
106.833	28.903	N	133.547	W	19.62		20.27		0.64		0.65	
106.875	29.120	N	133.467	W	19.59		20.27		0.64		0.69	
106.917	29.388	N	133.352	W	19.70		20.38		0.64		0.69	
106.958	29.628	N	133.240	W	19.55		20.23		0.64		0.69	
107.000	29.895	N	133.153	W	19.60		20.24		0.64		0.64	
107.042	30.152	N	133.057	W	19.56		20.22		0.64		0.65	
107.083	30.402	N	132.945	W	19.71		20.33		0.64		0.62	
107.125	30.645	N	132.830	W	19.70		20.31		0.64		0.61	
107.167	30.888	N	132.720	W	19.40		20.02		0.64		0.62	
107.208	31.135	N	132.620	W	19.39		19.99		0.64		0.60	
107.250	31.378	N	132.523	W	19.32		19.93		0.64		0.62	

RITS/CO2 1989											
Date GMT	Latitude		Longitude	Tss	Flag	Teg	Flag	Regr. Warming	Flag	Point-by-point	Flag
107.292	31.618	N	132.425	W	18.98	19.61		0.64		0.63	
107.333	31.860	N	132.330	W	18.70	19.34		0.65		0.64	
107.375	32.097	N	132.227	W	18.60	19.24		0.65		0.64	
107.417	32.340	N	132.133	W	18.10	18.77		0.65		0.67	
107.458	32.587	N	132.020	W	18.23	18.87		0.65		0.64	
107.500	32.832	N	131.903	W	17.78	18.45		0.65		0.67	
107.542	33.085	N	131.812	W	17.91	18.59		0.65		0.68	
107.583	33.332	N	131.712	W	17.25	17.96		0.65		0.70	
107.625	33.597	N	131.610	W	17.20	17.92		0.65		0.72	
107.667	33.875	N	131.470	W	17.30	18.03		0.65		0.73	
107.708	34.090	N	131.362	W	17.17	17.96		0.65		0.80	
107.750	34.340	N	131.248	W	16.84	17.63		0.65		0.80	
107.792	34.468	N	131.192	W	16.13	17.02		0.65		0.89	D
107.833	34.847	N	131.025	W	16.05	16.91		0.65		0.86	
107.875	35.092	N	130.925	W	15.75	16.49		0.65		0.73	
107.917	35.342	N	130.820	W	15.30	16.05		0.66		0.75	
107.958	35.600	N	130.708	W	15.39	16.12		0.65		0.72	
108.000	35.832	N	130.613	W	15.31	15.99		0.66		0.68	
108.042	36.075	N	130.517	W	15.33	16.02		0.65		0.69	
108.083	36.308	N	130.368	W	15.21	15.85		0.66		0.65	
108.125	36.553	N	130.263	W	14.69	15.35		0.66		0.66	
108.167	36.800	N	130.158	W	14.28	14.94		0.66		0.66	
108.208	37.045	N	130.052	W	14.58	15.22		0.66		0.64	
108.250	37.288	N	129.947	W	14.15	14.82		0.66		0.68	
108.292	37.535	N	129.848	W	13.43	14.12		0.66		0.69	
108.333	37.772	N	129.748	W	13.55	14.21		0.66		0.66	
108.375	37.995	N	129.652	W	13.57	14.23		0.66		0.66	
108.417	38.218	N	129.553	W	14.05	14.64		0.66		0.60	
108.458	38.443	N	129.457	W	13.40	14.09		0.66		0.69	
108.500	38.668	N	129.360	W	13.15	13.82		0.66		0.67	
108.542	38.880	N	129.280	W	13.04	13.71		0.66		0.67	
108.583	39.097	N	129.210	W	12.95	13.61		0.66		0.66	
108.625	39.307	N	129.142	W	13.12	13.78		0.66		0.65	
108.667	39.552	N	129.058	W	13.11	13.78		0.66		0.66	
108.708	39.808	N	128.968	W	13.08	13.75		0.66		0.67	
108.750	40.018	N	128.893	W	13.57	14.20		0.66		0.64	
108.792	40.317	N	128.772	W	13.34	14.02		0.66		0.68	
108.833	40.575	N	128.655	W	11.84	12.64		0.67		0.81	
108.875	40.838	N	128.485	W	11.49	12.27		0.67		0.78	
108.917	41.088	N	128.365	W	10.84	11.68		0.67		0.84	
108.958	41.307	N	128.265	W	10.67	11.49		0.87		0.82	
109.000	41.532	N	128.155	W	10.77	11.56		0.67		0.80	
109.042	41.737	N	128.058	W	10.75	11.54		0.87		0.79	
109.083	42.180	N	127.850	W	10.77	11.56		0.67		0.79	
109.125	42.403	N	127.745	W	10.56	11.36		0.67		0.80	
109.167	42.625	N	127.630	W	10.47	11.27		0.87		0.80	
109.208	42.625	N	127.630	W	10.32	11.13		0.87		0.81	
109.250	42.848	N	127.522	W	10.38	11.18		0.67		0.80	
109.292	43.075	N	127.420	W	10.88	11.63		0.67		0.75	
109.333	43.327	N	127.305	W	10.93	11.71		0.67		0.78	

RITS/CO2 1989												
Date GMT	Latitude	Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
109.375	43.575	N	127.210	W	10.62	11.41		0.67		0.79		
109.417	43.837	N	127.105	W	10.05	10.77		0.67		0.72		
109.458	44.068	N	127.007	W	9.96	10.60		0.67		0.63		
109.500	44.322	N	126.888	W	9.89	10.52		0.67		0.63		
109.542	44.563	N	126.778	W	9.81	10.44		0.67		0.63		
109.583	44.742	N	126.718	W	9.86	10.48		0.67		0.62		
109.625	45.043	N	126.547	W	9.99	10.61		0.67		0.62		
109.667	45.242	N	126.458	W	10.04	10.67		0.67		0.62		
109.708	45.462	N	126.325	W	10.04	10.67		0.67		0.63		
109.750	45.675	N	126.210	W	10.36	10.95		0.67		0.58		
109.792	45.927	N	126.070	W	10.52	11.11		0.67		0.60		
109.833	46.187	N	125.962	W	10.36	10.98		0.67		0.62		
109.875	46.435	N	125.818	W	10.35	10.95		0.67		0.60		
109.917	46.688	N	125.690	W	9.98	10.63		0.67		0.65		
109.958	46.937	N	125.565	W	9.80	10.45		0.67		0.65		
110.000	47.188	N	125.453	W	9.85	10.50		0.67		0.65		
110.042	47.447	N	125.343	W	9.75	10.41		0.67		0.65		
110.083	47.682	N	125.228	W	9.85	10.49		0.67		0.64		
110.125	47.927	N	125.097	W	9.79	10.47		0.67		0.67		



## **RITS/CO<sub>2</sub>/EPOCS 1988**

RITS/CO2/EPOCS 1988												
Date GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
99.042	52.000	N	168.000	W	3.06		*		0.39			*
99.083	52.020	N	167.970	W	3.00		*		0.39			*
99.125	51.910	N	168.080	W	3.03		*		0.39			*
99.167	51.680	N	168.290	W	3.00		*		0.39			*
99.208	51.490	N	168.480	W	3.02		*		0.39			*
99.250	51.270	N	168.650	W	3.03		*		0.39			*
99.292	50.070	N	168.820	W	3.02		*		0.39			*
99.333	50.840	N	169.050	W	3.05	3.28			0.39		0.23	
99.375	50.640	N	169.290	W	3.06	3.30			0.39		0.24	
99.412	50.440	N	169.520	W	3.16	3.36			0.39		0.20	
99.458	50.240	N	169.750	W	3.16	3.36			0.39		0.19	
99.500	50.020	N	169.970	W	3.12	3.36			0.39		0.24	
99.542	50.010	N	170.010	W	3.03	3.39			0.39		0.36	
99.583	50.000	N	170.020	W	3.02	3.38			0.39		0.36	
99.625	50.030	N	170.040	W	3.05	3.38			0.39		0.33	
99.667	50.040	N	170.050	W	3.01	3.37			0.39		0.35	
99.708	50.050	N	170.040	W	3.04	3.37			0.39		0.33	
99.750	49.980	N	169.990	W	3.07	3.40			0.39		0.34	
99.792	49.980	N	170.000	W	3.06	3.42			0.39		0.36	
99.833	49.990	N	170.000	W	3.09	3.45			0.39		0.36	
99.875	50.000	N	170.010	W	3.10	3.46			0.39		0.36	
99.917	50.000	N	170.010	W	3.12	3.49			0.39		0.37	
99.958	50.000	N	170.010	W	3.14	3.52			0.39		0.38	
100.000	50.020	N	170.020	W	3.11	3.56			0.39		0.45	
100.042	48.790	N	170.020	W	3.19	3.59			0.39		0.41	
100.083	49.530	N	169.990	W	3.38	3.77			0.39		0.39	
100.125	49.290	N	169.990	W	3.41	3.80			0.39		0.39	
100.167	48.990	N	169.980	W	3.43	3.79			0.39		0.36	
100.208	48.750	N	169.980	W	3.41	3.76			0.39		0.35	
100.250	48.550	N	169.990	W	3.36	3.67			0.39		0.31	
100.292	48.500	N	170.000	W	3.37	3.64			0.39		0.27	
100.333	48.490	N	169.960	W	3.41	3.65			0.39		0.24	
100.375	48.490	N	169.920	W	3.44	3.67			0.39		0.23	
100.412	48.460	N	169.900	W	3.48	3.72			0.39		0.24	
100.458	48.310	N	169.890	W	3.53	3.77			0.39		0.24	
100.500	48.180	N	169.880	W	3.34	3.66			0.39		0.32	
100.542	48.050	N	169.890	W	3.22	3.63			0.39		0.42	
100.583	47.900	N	169.900	W	3.17	3.59			0.39		0.42	
100.625	47.750	N	169.920	W	3.17	3.59			0.39		0.42	
100.667	47.590	N	169.950	W	3.18	3.59			0.39		0.41	
100.708	47.440	N	169.980	W	3.30	3.73			0.39		0.43	
100.750	47.250	N	170.000	W	3.43	3.86			0.39		0.43	
100.792	47.120	N	170.010	W	3.42	3.87			0.39		0.46	
100.833	47.000	N	170.000	W	3.40	3.87			0.39		0.47	
100.875	46.990	N	170.010	W	3.39	3.88			0.39		0.49	
100.917	46.990	N	170.010	W	3.37	3.89			0.39		0.52	
100.958	46.990	N	170.010	W	3.41	3.91			0.39		0.51	
101.000	46.990	N	170.000	W	3.44	3.90			0.39		0.46	
101.042	46.990	N	170.000	W	3.48	3.90			0.39		0.41	
101.083	46.990	N	170.000	W	3.49	3.88			0.39		0.40	

					RITS/CO2/EPOCS 1988								
Date GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point		Flag
101.125	46.980	N	170.010	W	3.50		3.86		0.39		0.36		
101.167	46.950	N	170.020	W	3.49		3.87		0.39		0.38		
101.208	46.880	N	170.000	W	3.52		3.86		0.39		0.34		
101.250	46.780	N	169.960	W	3.51		3.83		0.39		0.32		
101.292	46.670	N	169.930	W	3.53		3.85		0.39		0.33		
101.333	46.560	N	169.900	W	3.55		3.86		0.39		0.31		
101.375	46.450	N	169.900	W	3.54		3.83		0.39		0.29		
101.412	46.360	N	169.910	W	3.56		3.81		0.39		0.24		
101.458	46.260	N	169.920	W	3.57		3.81		0.39		0.24		
101.500	46.160	N	169.920	W	3.48		3.78		0.39		0.30		
101.542	46.060	N	169.950	W	3.40		3.77		0.39		0.37		
101.583	45.960	N	169.930	W	3.37		3.75		0.39		0.38		
101.625	45.890	N	169.960	W	3.36		3.75		0.39		0.39		
101.667	45.700	N	169.950	W	3.43		3.81		0.39		0.38		
101.708	45.700	N	169.960	W	3.57		3.95		0.39		0.38		
101.750	45.610	N	169.960	W	3.55		3.91		0.39		0.36		
101.792	45.540	N	169.960	W	3.51		3.88		0.39		0.37		
101.833	45.510	N	169.970	W	3.53		3.89		0.39		0.36		
101.875	45.500	N	169.980	W	3.51		3.90		0.39		0.39		
101.917	45.470	N	170.020	W	3.54		3.94		0.39		0.40		
101.958	45.430	N	170.050	W	3.57		3.93		0.39		0.36		
102.000	45.730	N	170.080	W	3.55		3.95		0.39		0.40		
102.042	45.380	N	170.110	W	3.54		3.95		0.39		0.41		
102.083	45.370	N	170.170	W	3.60		3.98		0.39		0.39		
102.125	45.340	N	170.230	W	3.68		4.01		0.39		0.33		
102.167	45.320	N	170.290	W	3.71		4.04		0.39		0.33		
102.208	45.300	N	170.350	W	3.88		4.27		0.38		0.39		
102.250	45.280	N	170.410	W	4.06		4.38		0.38		0.32		
102.292	45.280	N	170.470	W	4.12		4.39		0.38		0.28		
102.333	45.280	N	170.550	W	4.09		4.37		0.38		0.29		
102.375	45.270	N	170.630	W	4.26		4.50		0.38		0.23		
102.412	45.270	N	170.700	W	4.35		4.59		0.38		0.23		
102.458	45.270	N	170.750	W	4.43		4.58		0.38		0.16		
102.500	45.270	N	170.780	W	4.36		4.64		0.38		0.28		
102.542	45.260	N	170.810	W	4.36		4.73		0.38		0.36		
102.583	45.260	N	170.830	W	4.47		4.80		0.38		0.33		
102.625	45.230	N	170.830	W	4.56		4.89		0.38		0.33		
102.667	45.280	N	170.880	W	4.69		5.03		0.38		0.33		
102.708	45.200	N	170.900	W	4.69		5.04		0.38		0.35		
102.750	45.190	N	170.950	W	4.71		5.07		0.38		0.36		
102.792	45.170	N	170.990	W	4.76		5.09		0.38		0.33		
102.833	45.160	N	171.030	W	4.76		5.07		0.38		0.31		
102.875	45.150	N	171.080	W	4.80		5.08		0.38		0.28		
102.917	45.150	N	171.140	W	4.78		5.08		0.38		0.30		
102.958	45.140	N	171.200	W	4.81		5.07		0.38		0.26		
103.000	45.150	N	171.240	W	4.72		5.07		0.38		0.34		
103.042	45.170	N	171.300	W	4.55		4.93		0.38		0.37		
103.083	45.190	N	171.340	W	4.48		4.84		0.38		0.37		
103.125	45.200	N	171.390	W	4.37		4.73		0.38		0.36		
103.167	45.210	N	171.450	W	4.35		4.68		0.38		0.33		

				RITS/CO2/EPOCS 1988									
Date GMT	Latitude	Longitude		Tss	Flag	Teq	Flag	Regr.	Warming	Flag	Point-by-point	Flag	
103.208	45.220 N	171.500	W	4.38	4.74			0.38			0.36		
103.250	45.240 N	171.550	W	4.42	4.74			0.38			0.32		
103.292	45.250 N	171.600	W	4.41	4.75			0.38			0.34		
103.333	45.270 N	171.660	W	4.56	4.93			0.38			0.37		
103.375	45.280 N	171.710	W	4.53	4.87			0.38			0.34		
103.412	45.300 N	171.780	W	4.31	4.63			0.38			0.32		
103.458	45.290 N	171.830	W	4.14	4.46			0.38			0.32		
103.500	45.310 N	171.890	W	4.01	4.36			0.38			0.35		
103.542	45.290 N	171.980	W	4.04	4.38			0.38			0.34		
103.583	45.260 N	172.020	W	4.13	4.48			0.38			0.36		
103.625	45.240 N	172.080	W	4.15	4.50			0.38			0.35		
103.667	45.230 N	172.150	W	4.08	4.45			0.38			0.37		
103.708	45.210 N	172.230	W	4.00	4.38			0.38			0.38		
103.750	45.210 N	172.300	W	3.91	4.32			0.38			0.41		
103.792	45.120 N	172.270	W	3.89	4.35			0.38			0.46		
103.833	44.950 N	172.050	W	4.29	4.81			0.38			0.52		
103.875	44.740 N	171.780	W	4.46	4.95			0.38			0.49		
103.917	44.550 N	171.630	W	4.75	5.11			0.38			0.36		
103.958	44.310 N	171.460	W	4.86		*		0.38			*		
104.000	44.070 N	171.300	W	4.90		*		0.38			*		
104.042	43.830 N	171.140	W	5.51		*		0.37			*		
104.083	43.580 N	170.980	W	5.74		*		0.37			*		
104.125	43.330 N	170.830	W	5.83		*		0.37			*		
104.167	43.080 N	170.670	W	5.84		*		0.37			*		
104.208	42.830 N	170.520	W	6.15		*		0.37			*		
104.250	42.590 N	170.370	W	6.46	6.81			0.37			0.35		
104.292	42.340 N	170.220	W	6.53	6.81			0.36			0.28		
104.333	42.100 N	170.070	W	7.13	7.40			0.36			0.27		
104.375	42.010 N	169.990	W	7.06	7.34			0.36			0.29		
104.412	42.010 N	169.990	W	7.00	7.27			0.36			0.28		
104.458	42.020 N	170.000	W	7.05	7.32			0.36			0.27		
104.500	42.030 N	170.010	W	7.07	7.37			0.36			0.30		
104.542	42.050 N	170.010	W	7.10	7.45			0.36			0.36		
104.583	42.060 N	170.050	W	7.16	7.53			0.36			0.36		
104.625	42.080 N	170.020	W	7.16	7.53			0.36			0.36		
104.667	42.070 N	170.010	W	7.20	7.51			0.36			0.31		
104.708	42.080 N	170.030	W	7.13	7.43			0.36			0.30		
104.750	42.090 N	170.040	W	7.16	7.39			0.36			0.22		
104.792	42.110 N	170.050	W	7.22	7.38			0.36			0.16		
104.833	41.920 N	170.040	W	7.37	7.57			0.36			0.20		
104.875	41.640 N	170.020	W	7.69	7.83			0.36			0.14		
104.917	41.380 N	170.010	W	7.58	7.68			0.36			0.10		
104.958	41.050 N	169.990	W	7.86	7.94			0.36			0.07		
105.000	40.850 N	169.980	W	7.93	8.20			0.35			0.27		
105.042	40.580 N	169.990	W	8.19	8.50			0.35			0.31		
105.083	40.310 N	170.000	W	8.21	8.52			0.35			0.31		
105.125	40.040 N	170.000	W	10.05	10.60			0.34			0.54		
105.167	40.010 N	170.010	W	10.84	11.25			0.33			0.40		
105.208	40.030 N	170.000	W	10.80	11.18			0.33			0.37		
105.250	40.050 N	170.010	W	10.36	10.96			0.34			0.60		

					RITS/CO2/EPOCS 1988							
Date GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
105.292	40.080	N	170.020	W	9.61		9.99		0.34		0.38	
105.333	40.110	N	170.030	W	9.55		9.90		0.34		0.35	
105.375	40.120	N	170.050	W	9.56		9.88		0.34		0.33	
105.412	40.140	N	170.080	W	9.68		10.03		0.34		0.36	
105.458	40.160	N	170.090	W	9.48		9.82		0.34		0.33	
105.500	40.170	N	170.110	W	9.22		9.63		0.35		0.41	
105.542	40.190	N	170.130	W	9.43		9.89		0.34		0.46	
105.583	40.210	N	170.170	W	9.17		9.63		0.35		0.47	
105.625	40.220	N	170.210	W	8.96		9.45		0.35		0.49	
105.667	40.260	N	170.230	W	8.55		9.10		0.35		0.55	
105.708	40.280	N	170.270	W	8.48		9.01		0.35		0.54	
105.750	40.300	N	170.300	W	8.32		8.87		0.35		0.55	
105.792	40.350	N	170.320	W	8.45		9.04		0.35		0.60	
105.833	40.350	N	170.330	W	8.49		9.08		0.35		0.59	
105.875	40.140	N	170.130	W	9.30		9.93		0.34		0.63	
105.917	40.010	N	170.020	W	10.60		11.20		0.34		0.61	
105.958	40.030	N	170.020	W	10.58		11.24		0.34		0.66	
106.000	40.040	N	170.030	W	10.64		11.23		0.33		0.60	
106.042	40.050	N	170.040	W	10.80		11.22		0.33		0.43	
106.083	40.060	N	170.080	W	10.81		11.20		0.33		0.39	
106.125	40.070	N	170.090	W	10.80		11.20		0.33		0.40	
106.167	40.060	N	170.120	W	10.85		11.19		0.33		0.34	
106.208	40.060	N	170.130	W	10.84		11.17		0.33		0.33	
106.250	40.030	N	170.150	W	10.81		11.17		0.33		0.35	
106.292	40.050	N	170.170	W	10.77		11.13		0.33		0.36	
106.333	39.830	N	170.150	W	10.48		10.88		0.34		0.41	
106.375	39.570	N	170.110	W	9.80		10.36		0.34		0.56	
106.412	39.310	N	170.080	W	10.97		11.19		0.33		0.21	
106.458	39.040	N	169.960	W	10.64		11.01		0.34		0.38	
106.500	38.810	N	169.790	W	10.93		11.20		0.33		0.27	
106.542	38.570	N	169.610	W	10.93		11.34		0.33		0.41	
106.583	38.340	N	169.450	W	10.81		11.19		0.33		0.38	
106.625	38.130	N	169.310	W	10.83		11.19		0.33		0.36	
106.667	38.000	N	169.310	W	10.85		11.28		0.33		0.42	
106.708	37.990	N	169.420	W	10.69		11.12		0.33		0.43	
106.750	37.990	N	169.540	W	10.65		11.07		0.33		0.42	
106.792	38.000	N	169.650	W	10.71		11.12		0.33		0.41	
106.833	38.010	N	169.750	W	10.68		11.06		0.33		0.38	
106.875	38.010	N	169.860	W	10.78		11.15		0.33		0.37	
106.917	38.000	N	169.940	W	11.12		11.44		0.33		0.32	
106.958	38.000	N	170.010	W	11.26		11.62		0.33		0.36	
107.000	38.010	N	169.990	W	11.26		11.69		0.33		0.43	
107.042	37.930	N	170.060	W	11.02		11.52		0.33		0.50	
107.083	37.770	N	170.130	W	11.68		12.03		0.33		0.34	
107.125	37.620	N	170.220	W	12.02		12.50		0.33		0.48	
107.167	37.490	N	170.110	W	12.00		12.49		0.33		0.49	
107.208	37.420	N	169.850	W	11.31		11.78		0.33		0.47	
107.250	37.260	N	169.720	W	12.22		12.57		0.32		0.35	
107.292	37.040	N	169.550	W	12.20		12.92		0.32		0.72	D
107.333	36.820	N	169.400	W	12.45		12.87		0.32		0.42	

				RITS/CO2/EPOCS 1988									
Date GMT	Latitude	Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag		
107.375	36.600	N	169.540	W	12.83	13.44		0.32		0.61			
107.412	36.400	N	169.680	W	12.88	13.34		0.32		0.45			
107.458	36.140	N	169.850	W	13.10	13.65		0.32		0.55			
107.500	36.000	N	170.000	W	12.91	13.37		0.32		0.46			
107.542	35.990	N	170.020	W	12.98	13.40		0.32		0.42			
107.583	35.980	N	170.040	W	13.04	13.42		0.32		0.38			
107.625	35.970	N	170.060	W	13.05	13.42		0.32		0.37			
107.667	35.960	N	170.070	W	13.10	13.46		0.32		0.36			
107.708	35.880	N	170.090	W	12.99	13.32		0.32		0.33			
107.750	35.630	N	170.100	W	13.18	13.44		0.32		0.26			
107.792	35.400	N	170.090	W	13.68	13.97		0.31		0.29			
107.833	35.130	N	170.080	W	13.73	14.03		0.31		0.30			
107.875	34.890	N	170.050	W	13.68	14.01		0.31		0.33			
107.917	34.600	N	170.020	W	14.34	14.54		0.31		0.20			
107.958	34.360	N	169.980	W	15.44	15.60		0.30		0.16			
108.000	34.130	N	170.000	W	16.13	16.42		0.30		0.29			
108.042	34.010	N	169.980	W	15.88	16.29		0.30		0.41			
108.083	34.020	N	169.990	W	15.87	16.31		0.30		0.44			
108.125	34.030	N	170.020	W	15.88	16.24		0.30		0.37			
108.167	34.050	N	170.020	W	15.84	16.19		0.30		0.35			
108.208	34.070	N	170.030	W	15.88	16.16		0.30		0.28			
108.250	34.070	N	170.040	W	15.78	16.22		0.30		0.44			
108.292	34.080	N	170.050	W	15.75	16.22		0.30		0.47			
108.333	34.080	N	170.050	W	15.81	16.21		0.30		0.40			
108.375	34.070	N	170.060	W	15.82	16.20		0.30		0.38			
108.412	34.050	N	170.060	W	15.92	16.26		0.30		0.33			
108.458	33.880	N	170.050	W	15.81	16.13		0.30		0.32			
108.500	33.580	N	170.040	W	16.04	16.32		0.30		0.28			
108.542	33.310	N	170.040	W	15.63	15.93		0.30		0.30			
108.583	33.030	N	170.030	W	16.32	16.59		0.29		0.28			
108.625	32.770	N	170.020	W	16.07	16.41		0.30		0.34			
108.667	32.490	N	170.010	W	15.78	16.07		0.30		0.29			
108.708	32.230	N	170.010	W	16.31	16.57		0.29		0.26			
108.750	32.000	N	170.010	W	16.69	16.96		0.29		0.27			
108.792	32.010	N	170.010	W	16.35	16.71		0.29		0.36			
108.833	32.000	N	170.070	W	16.44	16.70		0.29		0.25			
108.875	32.000	N	170.090	W	16.53	16.95		0.29		0.42			
108.917	32.000	N	170.100	W	16.86	17.24		0.29		0.38			
108.958	31.990	N	170.100	W	16.55	17.04		0.29		0.49			
109.000	31.740	N	170.060	W	16.88	17.27		0.29		0.40			
109.042	31.470	N	170.080	W	17.08	17.55		0.29		0.47			
109.083	31.190	N	170.060	W	17.33	17.78		0.29		0.45			
109.125	30.910	N	170.060	W	17.48	17.91		0.29		0.43			
109.167	30.630	N	170.050	W	18.12	18.54		0.28		0.43			
109.208	30.360	N	170.040	W	19.11	19.22		0.27		0.11			
109.250	30.100	N	170.020	W	20.03	20.41		0.27		0.38			
109.292	30.000	N	170.000	W	19.67	19.95		0.27		0.28			
109.333	30.010	N	170.000	W	19.71	19.97		0.27		0.25			
109.375	30.030	N	170.010	W	19.65	19.92		0.27		0.27			
109.412	30.020	N	170.000	W	19.64	19.89		0.27		0.25			

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Date GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
109.458	30.020	N	170.000	W	19.50		19.80		0.27		0.30	
109.500	30.010	N	170.000	W	19.21		19.51		0.27		0.30	
109.542	30.010	N	169.990	W	19.13		19.37		0.27		0.23	
109.583	30.010	N	169.980	W	19.15		19.33		0.27		0.18	
109.625	30.000	N	169.970	W	19.03		19.29		0.27		0.26	
109.667	29.990	N	169.960	W	18.99		19.25		0.27		0.26	
109.708	29.870	N	169.950	W	18.72		19.02		0.28		0.30	
109.750	29.600	N	169.940	W	19.93		20.07		0.27		0.14	
109.792	29.350	N	169.940	W	21.20		21.36		0.26		0.16	
109.833	29.100	N	169.950	W	21.78		22.05		0.25		0.27	
109.875	28.870	N	169.960	W	21.75		22.04		0.25		0.29	
109.917	28.630	N	169.980	W	22.02		22.27		0.25		0.24	
109.958	28.390	N	169.990	W	21.91		22.25		0.25		0.34	
110.000	28.140	N	170.010	W	21.31		21.58		0.26		0.27	
110.042	28.010	N	170.000	W	21.42		21.61		0.26		0.18	
110.083	28.000	N	170.000	W	21.39		21.59		0.26		0.19	
110.125	27.990	N	170.010	W	21.36		21.56		0.26		0.21	
110.167	27.990	N	170.010	W	21.29		21.52		0.26		0.23	
110.208	27.980	N	170.000	W	21.28		21.51		0.26		0.22	
110.250	27.970	N	170.000	W	21.25		21.48		0.26		0.23	
110.292	27.970	N	170.000	W	21.14		21.42		0.26		0.28	
110.333	27.850	N	170.010	W	20.94		21.23		0.26		0.29	
110.375	27.650	N	170.010	W	20.99		21.29		0.26		0.30	
110.412	27.470	N	170.020	W	21.37		21.66		0.26		0.30	
110.458	27.280	N	170.020	W	21.52		21.81		0.26		0.29	
110.500	27.100	N	170.010	W	21.64		21.94		0.26		0.30	
110.542	26.900	N	170.000	W	22.36		22.62		0.25		0.26	
110.583	26.720	N	169.990	W	22.80		23.04		0.25		0.24	
110.625	26.520	N	169.990	W	22.96		23.26		0.25		0.30	
110.667	26.330	N	169.990	W	23.38		23.62		0.24		0.24	
110.708	26.130	N	170.000	W	23.43		23.68		0.24		0.25	
110.750	26.000	N	169.990	W	23.54		23.80		0.24		0.26	
110.792	25.990	N	170.000	W	23.57		23.86		0.24		0.29	
110.833	26.000	N	170.000	W	23.61		23.85		0.24		0.24	
110.875	26.000	N	169.990	W	23.61		23.88		0.24		0.27	
110.917	26.010	N	169.980	W	23.68		23.96		0.24		0.29	
110.958	26.010	N	169.990	W	23.64		23.96		0.24		0.32	
111.000	25.980	N	169.980	W	23.80		24.09		0.24		0.29	
111.042	25.890	N	169.850	W	23.61		23.92		0.24		0.31	
111.083	25.630	N	169.890	W	23.84		24.13		0.24		0.29	
111.125	25.360	N	169.940	W	23.72		23.97		0.24		0.25	
111.167	25.110	N	169.990	W	23.68		23.94		0.24		0.26	
111.208	24.950	N	170.000	W	23.81		24.09		0.24		0.29	
111.250	24.910	N	169.980	W	24.00		24.21		0.24		0.21	
111.292	24.710	N	170.000	W	24.02		24.27		0.24		0.25	
111.333	24.480	N	169.950	W	24.30		24.53		0.24		0.23	
111.375	24.220	N	169.960	W	24.23		24.46		0.24		0.23	
111.412	24.000	N	170.000	W	24.09		24.33		0.24		0.25	
111.458	23.990	N	169.970	W	24.04		24.33		0.24		0.29	
111.500	23.980	N	169.970	W	24.06		24.33		0.24		0.27	

				RITS/CO2/EPOCS 1988								
Date GMT	Latitude	Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
111.542	23.970	N	169.960	W	24.13	24.34		0.24		0.21		
111.583	23.960	N	169.960	W	24.13	24.35		0.24		0.22		
111.625	23.960	N	169.950	W	24.10	24.34		0.24		0.24		
111.667	23.950	N	169.950	W	24.09	24.34		0.24		0.25		
111.708	23.940	N	169.950	W	24.08	24.33		0.24		0.25		
111.750	23.900	N	169.980	W	24.07	24.33		0.24		0.25		
111.792	23.890	N	170.050	W	24.14	24.36		0.24		0.22		
111.833	23.720	N	170.070	W	24.50	24.71		0.23		0.21		
111.875	23.520	N	170.060	W	24.59	24.85		0.23		0.26		
111.917	23.320	N	170.060	W	24.66	24.97		0.23		0.31		
111.958	23.110	N	170.040	W	24.75	25.13		0.23		0.38		
112.000	22.910	N	170.030	W	25.10	25.42		0.23		0.32		
112.042	22.670	N	170.020	W	25.17	25.47		0.23		0.30		
112.083	22.500	N	170.020	W	25.07	25.35		0.23		0.29		
112.125	22.270	N	170.010	W	25.10	25.44		0.23		0.34		
112.167	22.070	N	170.000	W	25.14	25.49		0.23		0.35		
112.208	22.000	N	169.990	W	25.27	25.60		0.23		0.32		
112.250	22.000	N	169.990	W	25.22	25.51		0.23		0.30		
112.292	22.000	N	170.000	W	25.12	25.41		0.23		0.30		
112.333	22.010	N	170.010	W	25.07	25.39		0.23		0.32		
112.375	22.020	N	170.000	W	25.07	25.37		0.23		0.30		
112.412	22.020	N	170.000	W	25.03	25.33		0.23		0.30		
112.458	22.020	N	169.990	W	25.07	25.38		0.23		0.30		
112.500	21.890	N	170.000	W	25.08	25.34		0.23		0.25		
112.542	21.670	N	170.000	W	25.33	25.54		0.23		0.21		
112.583	21.440	N	170.000	W	25.46	25.63		0.23		0.17		
112.625	21.240	N	169.990	W	25.82	25.95		0.23		0.13		
112.667	20.990	N	169.990	W	26.01	26.18		0.22		0.16		
112.708	20.770	N	169.980	W	26.17	26.28		0.22		0.12		
112.750	20.510	N	170.000	W	26.15	26.27		0.22		0.12		
112.792	20.280	N	169.980	W	26.10	26.21		0.22		0.11		
112.833	20.070	N	169.990	W	26.10	26.22		0.22		0.12		
112.875	19.990	N	170.000	W	26.17	26.28		0.22		0.11		
112.917	20.000	N	169.980	W	26.20	26.31		0.22		0.11		
112.958	19.960	N	169.990	W	26.24	26.37		0.22		0.13		
113.000	19.950	N	169.970	W	26.26	26.40		0.22		0.14		
113.042	19.930	N	169.960	W	26.23	26.41		0.22		0.18		
113.083	19.920	N	169.940	W	26.19	26.38		0.22		0.19		
113.125	19.920	N	169.930	W	26.12	26.36		0.22		0.23		
113.167	19.910	N	169.920	W	26.11	26.34		0.22		0.22		
113.208	19.820	N	169.890	W	26.08	26.35		0.22		0.27		
113.250	19.620	N	169.900	W	26.06	26.30		0.22		0.24		
113.292	19.410	N	169.910	W	25.97	26.20		0.22		0.22		
113.333	19.220	N	169.900	W	25.92	26.15		0.22		0.24		
113.375	19.040	N	169.920	W	25.91	26.17		0.22		0.27		
113.412	18.850	N	169.930	W	25.82	26.12		0.23		0.30		
113.458	18.670	N	169.960	W	25.80	26.12		0.23		0.32		
113.500	18.480	N	169.980	W	25.87	26.17		0.22		0.29		
113.542	18.300	N	170.010	W	25.92	26.18		0.22		0.26		
113.583	18.120	N	170.010	W	25.92	26.18		0.22		0.26		

				RITS/CO2/EPOCS 1988								
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
113.625	18.000	N	170.000	W	25.83	26.14		0.22		0.30		
113.667	18.010	N	170.000	W	25.82	26.14		0.23		0.32		
113.708	18.010	N	169.990	W	25.86	26.13		0.22		0.27		
113.750	18.020	N	169.980	W	25.89	26.13		0.22		0.24		
113.792	18.020	N	169.970	W	25.87	26.14		0.22		0.27		
113.833	18.020	N	169.960	W	25.87	26.16		0.22		0.29		
113.875	18.010	N	169.990	W	25.90	26.20		0.22		0.30		
113.917	18.010	N	170.010	W	25.91	26.21		0.22		0.30		
113.958	17.940	N	170.020	W	25.92	26.23		0.22		0.31		
114.000	17.730	N	170.010	W	26.02	26.23		0.22		0.20		
114.042	17.460	N	170.000	W	26.14	26.25		0.22		0.11		
114.083	17.190	N	169.990	W	26.17	26.27		0.22		0.10		
114.125	16.910	N	170.000	W	26.34	26.49		0.22		0.15		
114.167	16.650	N	170.000	W	26.38	26.57		0.22		0.20		
114.208	16.380	N	170.000	W	26.48	26.61		0.22		0.13		
114.250	16.120	N	170.000	W	26.47	26.64		0.22		0.17		
114.292	16.000	N	170.000	W	26.40	26.55		0.22		0.15		
114.333	16.000	N	170.000	W	26.33	26.53		0.22		0.20		
114.375	16.000	N	170.000	W	26.31	26.52		0.22		0.21		
114.412	16.000	N	170.000	W	26.28	26.50		0.22		0.21		
114.458	15.990	N	169.980	W	26.25	26.50		0.22		0.25		
114.500	15.990	N	169.980	W	26.24	26.50		0.22		0.26		
114.542	16.010	N	169.970	W	26.20	26.48		0.22		0.29		
114.583	15.840	N	169.980	W	26.10	26.43		0.22		0.32		
114.625	15.640	N	169.960	W	26.12	26.41		0.22		0.28		
114.667	15.390	N	170.000	W	26.12	26.39		0.22		0.26		
114.708	15.170	N	170.000	W	26.17	26.46		0.22		0.29		
114.750	14.930	N	170.010	W	26.33	26.59		0.22		0.25		
114.792	14.710	N	170.010	W	26.14	26.44		0.22		0.30		
114.833	14.480	N	170.010	W	26.08	26.38		0.22		0.30		
114.875	14.260	N	170.010	W	26.20	26.48		0.22		0.28		
114.917	14.080	N	170.000	W	26.43	26.71		0.22		0.28		
114.958	14.000	N	170.000	W	26.46	26.77		0.22		0.32		
115.000	13.990	N	169.980	W	26.52	26.83		0.22		0.31		
115.042	13.990	N	169.980	W	26.58	26.88		0.22		0.30		
115.083	13.990	N	169.970	W	26.63	26.90		0.22		0.28		
115.125	14.000	N	169.960	W	26.66	27.00		0.22		0.34		
115.167	14.000	N	169.960	W	26.64	27.00		0.22		0.35		
115.208	14.000	N	169.950	W	26.59	26.96		0.22		0.37		
115.250	14.000	N	169.940	W	26.58	26.91		0.22		0.33		
115.292	13.990	N	169.930	W	26.55	26.87		0.22		0.32		
115.333	13.990	N	169.940	W	26.52	26.82		0.22		0.30		
115.375	13.860	N	169.940	W	26.55	26.78		0.22		0.22		
115.412	13.670	N	169.960	W	26.62	26.88		0.22		0.25		
115.458	13.460	N	169.970	W	26.67	26.91		0.22		0.23		
115.500	13.220	N	169.970	W	26.62	26.91		0.22		0.30		
115.542	13.060	N	169.990	W	26.51	26.86		0.22		0.34		
115.583	12.870	N	170.010	W	26.43	26.75		0.22		0.32		
115.625	12.670	N	170.010	W	26.40	26.72		0.22		0.32		
115.667	12.510	N	169.990	W	26.54	26.80		0.22		0.27		

RITS/CO2/EPOCS 1988											
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
115.708	12.310	N	169.980	W	26.69	26.94		0.22		0.25	
115.750	12.110	N	169.990	W	26.77	27.05		0.22		0.28	
115.792	11.990	N	169.980	W	26.80	27.14		0.22		0.33	
115.833	12.000	N	169.990	W	26.85	27.09		0.22		0.24	
115.875	12.000	N	169.990	W	26.87	27.12		0.22		0.25	
115.917	12.000	N	170.000	W	26.88	27.14		0.22		0.26	
115.958	12.010	N	169.990	W	26.90	27.15		0.22		0.26	
116.000	12.010	N	169.990	W	26.92	27.18		0.22		0.25	
116.042	12.010	N	169.990	W	26.93	27.20		0.22		0.27	
116.083	12.010	N	169.990	W	26.93	27.26		0.22		0.34	
116.125	12.020	N	169.990	W	26.94	27.30		0.22		0.36	
116.167	12.020	N	169.990	W	26.92	27.16		0.22		0.24	
116.208	11.990	N	169.970	W	26.88	27.11		0.22		0.24	
116.250	11.840	N	169.910	W	26.75	26.97		0.22		0.22	
116.292	11.590	N	169.870	W	26.71	26.92		0.22		0.21	
116.333	11.310	N	169.920	W	26.69	26.89		0.22		0.20	
116.375	11.050	N	169.940	W	26.73	26.94		0.22		0.21	
116.412	10.820	N	169.950	W	26.85	27.06		0.22		0.21	
116.458	10.510	N	169.970	W	26.76	27.00		0.22		0.24	
116.500	10.260	N	170.000	W	26.69	26.97		0.22		0.28	
116.542	10.010	N	170.000	W	26.72	27.00		0.22		0.28	
116.583	10.000	N	170.030	W	26.75	27.02		0.22		0.27	
116.625	10.020	N	170.010	W	26.76	27.00		0.22		0.24	
116.667	10.040	N	169.980	W	26.72	26.98		0.22		0.26	
116.708	10.070	N	169.980	W	26.72	26.96		0.22		0.23	
116.750	10.040	N	169.940	W	26.79	26.96		0.22		0.17	
116.792	10.040	N	169.930	W	26.79	26.98		0.22		0.19	
116.833	10.040	N	169.920	W	26.87	27.04		0.22		0.18	
116.875	10.040	N	169.900	W	26.97	27.11		0.22		0.14	
116.917	10.030	N	169.890	W	26.99	27.17		0.22		0.18	
116.958	10.020	N	169.880	W	27.09	27.25		0.22		0.16	
117.000	10.020	N	169.860	W	27.04	27.27		0.22		0.23	
117.042	10.010	N	169.850	W	26.98	27.26		0.22		0.28	
117.083	10.010	N	169.830	W	27.01	27.25		0.22		0.24	
117.125	10.000	N	169.820	W	26.99	27.24		0.22		0.25	
117.167	10.000	N	169.810	W	26.96	27.21		0.22		0.25	
117.208	10.000	N	169.780	W	26.91	27.13		0.22		0.23	
117.250	10.000	N	169.770	W	26.86	27.05		0.22		0.19	
117.292	10.000	N	169.760	W	26.80	27.01		0.22		0.20	
117.333	10.000	N	169.760	W	26.80	26.97		0.22		0.17	
117.375	9.990	N	169.760	W	26.78	26.95		0.22		0.17	
117.412	9.990	N	169.780	W	26.75	26.93		0.22		0.18	
117.458	9.980	N	169.760	W	26.79	26.93		0.22		0.14	
117.500	9.980	N	169.760	W	26.67	26.93		0.22		0.26	
117.542	9.840	N	169.740	W	26.80	27.07		0.22		0.28	
117.583	9.560	N	169.790	W	26.75	27.06		0.22		0.31	
117.625	9.290	N	169.780	W	26.78	27.08		0.22		0.30	
117.667	9.050	N	169.860	W	27.13	27.38		0.22		0.25	
117.708	8.790	N	169.900	W	27.37	27.60		0.21		0.24	
117.750	8.520	N	169.950	W	27.68	27.84		0.21		0.15	

RITS/CO2/EPOCS 1988										
Date GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
117.792	8.230	N 169.960	W 27.78		27.94		0.21		0.16	
117.833	7.990	N 169.990	W 27.99		28.11		0.21		0.12	
117.875	7.990	N 169.980	W 28.04		28.17		0.21		0.13	
117.917	8.000	N 169.980	W 28.01		28.20		0.21		0.19	
117.958	8.010	N 169.970	W 28.05		28.20		0.21		0.15	
118.000	7.980	N 169.950	W 28.08		28.22		0.21		0.14	
118.042	7.720	N 169.950	W 28.14		28.25		0.21		0.10	
118.083	7.450	N 169.970	W 28.11		28.24		0.21		0.14	
118.125	7.180	N 169.980	W 28.06		28.21		0.21		0.15	
118.167	6.910	N 169.990	W 27.96		28.16		0.21		0.20	
118.208	6.640	N 170.000	W 27.98		28.14		0.21		0.16	
118.250	6.380	N 170.000	W 28.00		28.15		0.21		0.15	
118.292	6.120	N 170.010	W 27.90		28.13		0.21		0.23	
118.333	6.000	N 170.000	W 27.81		28.03		0.21		0.22	
118.375	6.020	N 170.010	W 27.83		28.00		0.21		0.17	
118.412	6.030	N 170.020	W 27.82		28.01		0.21		0.19	
118.458	6.040	N 170.020	W 27.79		28.01		0.21		0.22	
118.500	6.040	N 170.030	W 27.77		28.01		0.21		0.23	
118.542	6.050	N 170.030	W 27.83		27.99		0.21		0.16	
118.583	6.060	N 170.030	W 27.85		27.98		0.21		0.13	
118.625	6.060	N 170.050	W 27.77		27.96		0.21		0.19	
118.667	6.080	N 170.010	W 27.74		27.95		0.21		0.21	
118.708	6.080	N 170.010	W 27.72		27.89		0.21		0.17	
118.750	6.060	N 170.000	W 27.59		27.79		0.21		0.20	
118.792	5.840	N 170.000	W 27.38		27.58		0.21		0.20	
118.833	5.570	N 169.990	W 27.36		27.54		0.21		0.19	
118.875	5.320	N 169.980	W 27.42		27.63		0.21		0.21	
118.917	5.070	N 169.980	W 27.41		27.62		0.21		0.21	
118.958	4.830	N 169.990	W 27.31		27.56		0.21		0.24	
119.000	4.580	N 170.000	W 27.31		27.52		0.21		0.21	
119.042	4.340	N 170.000	W 27.37		27.54		0.21		0.17	
119.083	4.100	N 170.000	W 27.33		27.56		0.21		0.23	
119.125	4.010	N 170.000	W 27.40		27.63		0.21		0.22	
119.167	4.040	N 169.990	W 27.42		27.63		0.21		0.21	
119.208	4.060	N 169.990	W 27.42		27.62		0.21		0.20	
119.250	4.070	N 169.970	W 27.48		27.65		0.21		0.17	
119.292	3.940	N 169.980	W 27.61		27.77		0.21		0.17	
119.333	3.810	N 170.000	W 27.54		27.75		0.21		0.20	
119.375	3.680	N 170.020	W 27.53		27.72		0.21		0.19	
119.412	3.550	N 170.040	W 27.50		27.72		0.21		0.22	
119.458	3.420	N 170.060	W 27.58		27.79		0.21		0.22	
119.500	3.410	N 170.180	W 27.32		27.66		0.21		0.35	
119.542	3.500	N 170.160	W 27.24		27.69		0.21		0.46	
119.583	3.530	N 170.100	W 27.34		27.74		0.21		0.40	
119.625	3.440	N 170.070	W 27.46		27.79		0.21		0.33	
119.667	3.450	N 170.250	W 27.45		27.79		0.21		0.34	
119.708	3.450	N 170.220	W 27.38		27.67		0.21		0.29	
119.750	3.440	N 170.190	W 27.48		27.69		0.21		0.20	
119.792	3.450	N 170.340	W 27.37		27.61		0.21		0.24	
119.833	3.530	N 170.390	W 27.29		27.46		0.21		0.18	

RITS/CO2/EPOCS 1988											
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
119.875	3.610	N	170.320	W	27.52	27.64		0.21		0.12	
119.917	3.640	N	170.260	W	27.81	27.95		0.21		0.14	
119.958	3.510	N	170.260	W	27.90	27.99		0.21		0.09	
120.000	3.470	N	170.260	W	27.78	28.07		0.21		0.29	
120.042	3.510	N	170.270	W	27.52	28.07		0.21		0.55	
120.083	3.510	N	170.270	W	27.72	28.19		0.21		0.48	
120.125	3.530	N	170.280	W	27.97	28.38		0.21		0.41	
120.167	3.540	N	170.350	W	27.77	28.20		0.21		0.43	
120.208	3.590	N	170.510	W	27.60	27.96		0.21		0.36	
120.250	3.740	N	170.520	W	27.63	27.90		0.21		0.26	
120.292	3.710	N	170.500	W	27.59	27.83		0.21		0.24	
120.333	3.520	N	170.390	W	27.75	27.91		0.21		0.16	
120.375	3.450	N	170.150	W	28.01	28.14		0.21		0.12	
120.412	3.300	N	170.000	W	28.01	28.09		0.21		0.07	
120.458	3.120	N	169.990	W	27.95	27.98		0.21		0.03	
120.500	2.800	N	169.990	W	27.77	27.92		0.21		0.15	
120.542	2.540	N	169.990	W	27.65	27.92		0.21		0.27	
120.583	2.280	N	170.010	W	27.58	27.83		0.21		0.26	
120.625	2.010	N	169.980	W	27.46	27.70		0.21		0.24	
120.667	2.040	N	169.980	W	27.47	27.67		0.21		0.20	
120.708	2.000	N	169.970	W	27.48	27.65		0.21		0.17	
120.750	2.000	N	169.970	W	27.55	27.68		0.21		0.13	
120.792	1.990	N	169.940	W	27.60	27.71		0.21		0.11	
120.833	1.930	N	169.940	W	27.66	27.74		0.21		0.08	
120.875	1.740	N	169.960	W	27.67	27.72		0.21		0.05	
120.917	1.630	N	169.970	W	27.69	27.71		0.21		0.02	
120.958	1.360	N	169.990	W	27.64	27.69		0.21		0.04	
121.000	1.180	N	170.000	W	27.26	27.59		0.21		0.33	
121.042	1.020	N	170.030	W	27.10	27.54		0.22		0.45	
121.083	1.010	N	170.010	W	27.18	27.54		0.22		0.36	
121.125	1.010	N	170.000	W	27.28	27.55		0.21		0.27	
121.167	1.000	N	169.980	W	27.28	27.51		0.21		0.23	
121.208	1.000	N	169.960	W	27.32	27.43		0.21		0.11	
121.250	1.000	N	169.930	W	27.30	27.42		0.21		0.12	
121.292	1.010	N	169.910	W	27.30	27.46		0.21		0.16	
121.333	1.010	N	169.910	W	27.30	27.48		0.21		0.18	
121.375	1.010	N	169.890	W	27.20	27.45		0.22		0.25	
121.412	1.000	N	169.890	W	27.20	27.43		0.22		0.23	
121.458	0.930	N	169.930	W	27.15	27.33		0.22		0.18	
121.500	0.840	N	169.960	W	27.00	27.23		0.22		0.23	
121.542	0.750	N	170.020	W	27.00	27.17		0.22		0.17	
121.583	0.670	N	170.010	W	26.85	*		0.22		*	
121.625	0.600	N	170.000	W	26.87	*		0.22		*	
121.667	0.550	N	170.020	W	26.82	*		0.22		*	
121.708	0.500	N	170.010	W	26.79	27.01		0.22		0.22	
121.750	0.500	N	170.000	W	26.81	27.00		0.22		0.20	
121.792	0.480	N	169.950	W	26.83	27.00		0.22		0.17	
121.833	0.480	N	169.930	W	26.86	27.03		0.22		0.17	
121.875	0.450	N	169.920	W	26.90	27.08		0.22		0.17	
121.917	0.420	N	169.920	W	26.99	27.13		0.22		0.14	

				RITS/CO2/EPOCS 1988								
Date GMT	Latitude	Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
121.958	0.420	N	169.920	W	27.07	27.20		0.22			0.13	
122.000	0.420	N	169.930	W	26.99	27.25		0.22			0.26	
122.042	0.330	N	169.950	W	26.93	27.28		0.22			0.35	
122.083	0.260	N	170.020	W	27.01	27.32		0.22			0.31	
122.125	0.040	N	170.010	W	27.00	27.30		0.22			0.30	
122.167	0.010	N	169.990	W	26.95	27.21		0.22			0.26	
122.208	0.010	N	169.970	W	26.90	27.16		0.22			0.26	
122.250	0.010	N	169.940	W	26.85	27.09		0.22			0.24	
122.292	0.020	S	169.910	W	26.80	27.07		0.22			0.27	
122.333	0.030	S	169.890	W	26.80	27.06		0.22			0.26	
122.375	0.030	S	169.890	W	26.80	27.02		0.22			0.22	
122.412	0.040	S	169.890	W	26.80	26.97		0.22			0.17	
122.458	0.030	S	169.890	W	26.80	27.06		0.22			0.26	
122.500	0.020	S	169.880	W	26.80	26.99		0.22			0.19	
122.542	0.100	S	169.880	W	26.80	26.96		0.22			0.16	
122.583	0.150	S	169.900	W	26.77	26.97		0.22			0.20	
122.625	0.230	S	169.900	W	26.75	26.95		0.22			0.20	
122.667	0.270	S	169.900	W	26.75	26.95		0.22			0.21	
122.708	0.330	S	169.920	W	26.74	26.95		0.22			0.21	
122.750	0.380	S	169.950	W	26.74	26.94		0.22			0.20	
122.792	0.510	S	170.000	W	26.80	26.96		0.22			0.16	
122.833	0.520	S	169.970	W	26.80	26.98		0.22			0.17	
122.875	0.530	S	169.970	W	26.81	27.03		0.22			0.22	
122.917	0.530	S	169.950	W	26.91	27.12		0.22			0.21	
122.958	0.650	S	169.960	W	27.00	27.21		0.22			0.21	
123.000	0.770	S	169.980	W	27.14	27.38		0.22			0.24	
123.042	0.880	S	170.010	W	27.21	27.49		0.21			0.28	
123.083	0.980	S	170.030	W	27.32	27.60		0.21			0.28	
123.125	1.030	S	170.040	W	27.42	27.66		0.21			0.23	
123.167	1.040	S	170.060	W	27.44	27.63		0.21			0.19	
123.208	1.030	S	170.030	W	27.37	27.54		0.21			0.17	
123.250	1.000	S	170.010	W	27.34	27.48		0.21			0.14	
123.292	0.900	S	170.000	W	27.28	27.41		0.21			0.13	
123.333	0.910	S	169.990	W	27.28	27.37		0.21			0.10	
123.375	1.200	S	169.970	W	27.31	27.34		0.21			0.03	
123.412	1.440	S	170.000	W	27.20	27.48		0.22			0.28	
123.458	1.670	S	169.990	W	27.25	27.49		0.21			0.24	
123.500	1.900	S	170.010	W	27.69	27.77		0.21			0.08	
123.542	2.000	S	170.010	W	27.94	28.14		0.21			0.20	
123.583	2.010	S	170.010	W	27.89	28.11		0.21			0.22	
123.625	2.010	S	170.020	W	27.87	28.05		0.21			0.18	
123.667	2.000	S	170.000	W	27.78	27.97		0.21			0.20	
123.708	2.000	S	170.020	W	27.70	27.87		0.21			0.17	
123.750	2.000	S	170.000	W	27.74	27.88		0.21			0.14	
123.792	2.100	S	170.020	W	28.00	28.15		0.21			0.15	
123.833	2.360	S	170.030	W	28.60	28.65		0.20			0.05	
123.875	2.630	S	170.040	W	28.84	28.90		0.20			0.06	
123.917	2.860	S	170.050	W	29.16	29.22		0.20			0.06	
123.958	3.130	S	170.060	W	29.43	29.47		0.20			0.04	
124.000	3.400	S	170.040	W	29.39	29.55		0.20			0.16	

RITS/CO2/EPOCS 1988												
Date GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
124.042	3.660	S	170.020	W	29.30		29.54		0.20		0.24	
124.083	3.930	S	170.000	W	29.25		29.51		0.20		0.25	
124.125	4.010	S	170.000	W	29.26		29.47		0.20		0.21	
124.167	4.030	S	170.020	W	29.26		29.45		0.20		0.19	
124.208	4.030	S	170.020	W	29.27		29.41		0.20		0.13	
124.250	4.030	S	170.030	W	29.25		29.34		0.20		0.09	
124.292	4.040	S	170.040	W	29.26		29.30		0.20		0.04	
124.333	4.190	S	170.050	W	29.27		29.31		0.20		0.04	
124.375	4.470	S	170.030	W	29.30		29.30		0.20		0.01	
124.412	4.730	S	170.030	W	29.09		29.15		0.20		0.06	
124.458	5.020	S	169.980	W	29.03		29.07		0.20		0.04	
124.500	5.290	S	169.950	W	29.17		29.21		0.20		0.05	
124.542	5.560	S	169.980	W	29.40		29.52		0.20		0.12	
124.583	5.830	S	170.010	W	29.40		29.55		0.20		0.15	
124.625	6.000	S	169.990	W	29.19		29.36		0.20		0.17	
124.667	6.010	S	169.980	W	29.16		29.35		0.20		0.19	
124.708	6.010	S	169.980	W	29.15		29.34		0.20		0.20	
124.750	6.000	S	169.980	W	29.14		29.34		0.20		0.20	
124.792	6.000	S	169.980	W	29.11		29.34		0.20		0.23	
124.833	6.000	S	169.970	W	29.08		29.36		0.20		0.28	
124.875	6.000	S	169.960	W	29.11		29.42		0.20		0.30	
124.917	6.200	S	169.970	W	29.49		29.75		0.20		0.26	
124.958	6.460	S	169.980	W	29.69		29.99		0.20		0.30	
125.000	6.720	S	169.990	W	29.75		30.01		0.20		0.27	
125.042	6.930	S	170.000	W	29.77		30.02		0.20		0.25	
125.083	7.240	S	169.990	W	29.76		30.05		0.20		0.29	
125.125	7.500	S	169.990	W	29.71		30.02		0.20		0.30	
125.167	7.770	S	169.990	W	29.65		30.03		0.20		0.37	
125.208	8.000	S	170.000	W	29.64		29.93		0.20		0.30	
125.250	8.000	S	169.990	W	29.60		29.87		0.20		0.27	
125.292	8.000	S	169.970	W	29.58		29.85		0.20		0.27	
125.333	8.000	S	169.990	W	29.56		29.84		0.20		0.28	
125.375	8.060	S	169.990	W	29.49		29.80		0.20		0.31	
125.412	8.290	S	170.030	W	29.48		29.80		0.20		0.32	
125.458	8.570	S	169.980	W	29.46		29.78		0.20		0.32	
125.500	8.850	S	169.990	W	29.50		29.79		0.20		0.29	
125.542	9.110	S	170.020	W	29.50		29.72		0.20		0.22	
125.583	9.390	S	170.020	W	29.50		29.71		0.20		0.21	
125.625	9.670	S	170.010	W	29.57		29.74		0.20		0.16	
125.667	9.930	S	170.000	W	29.58		29.73		0.20		0.15	
125.708	10.010	S	169.990	W	29.58		29.73		0.20		0.16	
125.750	10.000	S	170.020	W	29.63		29.73		0.20		0.10	
125.792	10.020	S	170.010	W	29.65		29.74		0.20		0.09	
125.833	10.030	S	170.000	W	29.70		29.75		0.20		0.04	
125.875	10.040	S	169.990	W	29.71		29.77		0.20		0.06	
125.917	10.070	S	170.000	W	29.75		29.80		0.20		0.06	
125.958	10.100	S	170.000	W	29.83		29.83		0.20		0.00	
126.000	10.350	S	170.030	W	29.66		29.88		0.20		0.22	
126.042	10.620	S	170.050	W	29.58		29.85		0.20		0.27	
126.083	10.890	S	170.080	W	29.56		29.82		0.20		0.26	

					RITS/CO2/EPOCS 1988							
Date GMT	Latitude	Longitude			Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
126.125	11.030	S	170.100	W	29.55		29.78		0.20		0.23	
126.167	11.030	S	170.110	W	29.57		29.78		0.20		0.21	
126.208	11.090	S	170.120	W	29.54		29.71		0.20		0.17	
126.250	11.270	S	170.130	W	29.50		29.70		0.20		0.20	
126.292	11.520	S	170.140	W	29.45		29.60		0.20		0.15	
126.333	11.790	S	170.180	W	29.44		29.57		0.20		0.13	
126.375	12.060	S	170.200	W	29.48		29.57		0.20		0.10	
126.412	12.320	S	170.240	W	29.44		29.60		0.20		0.16	
126.458	12.590	S	170.270	W	29.33		29.46		0.20		0.13	
126.500	12.870	S	170.350	W	29.27		29.43		0.20		0.16	
126.542	13.150	S	170.400	W	29.28		29.44		0.20		0.16	
126.583	13.400	S	170.460	W	29.45		29.59		0.20		0.15	
126.625	13.670	S	170.460	W	29.49		29.60		0.20		0.10	
126.667	13.930	S	170.440	W	29.56		29.65		0.20		0.09	
131.958	14.117	S	170.500	W	29.22		*		0.20		*	*
132.000	13.850	S	170.517	W	29.35		*		0.20		*	*
132.042	13.600	S	170.517	W	29.19		*		0.20		*	*
132.083	13.350	S	170.500	W	29.26		*		0.20		*	*
132.125	13.083	S	170.500	W	29.20		*		0.20		*	*
132.167	12.833	S	170.500	W	29.20		*		0.20		*	*
132.208	12.583	S	170.500	W	29.18		*		0.20		*	*
132.250	12.333	S	170.483	W	29.30		29.28	D	0.20		-0.02	
132.292	12.083	S	170.417	W	29.33		29.31	D	0.20		-0.02	
132.333	11.817	S	170.450	W	29.25		29.34	D	0.20		0.09	
132.375	11.550	S	170.417	W	29.17		29.37	D	0.20		0.20	
132.417	11.283	S	170.417	W	29.20		29.40	D	0.20		0.20	
132.458	11.033	S	170.417	W	29.34		29.43	D	0.20		0.09	
132.500	10.783	S	170.400	W	29.43		29.46	D	0.20		0.04	
132.542	10.533	S	170.417	W	29.33		29.49	D	0.20		0.16	
132.583	10.283	S	170.333	W	29.34		29.52	D	0.20		0.18	
132.625	10.050	S	170.300	W	29.33		29.55	D	0.20		0.23	
132.667	9.800	S	170.317	W	29.35		29.58	D	0.20		0.23	
132.708	9.550	S	170.333	W	29.32		29.60	D	0.20		0.28	
132.750	9.283	S	170.333	W	29.27		29.60	D	0.20		0.34	
132.792	9.017	S	170.333	W	29.30		29.59	D	0.20		0.29	
132.833	8.750	S	170.333	W	29.34		29.59	D	0.20		0.25	
132.875	8.487	S	170.333	W	29.11		29.58	D	0.20		0.47	
132.917	8.217	S	170.333	W	29.14		29.58	D	0.20		0.44	
132.958	7.967	S	170.333	W	29.24		29.58	D	0.20		0.34	
133.000	7.700	S	170.300	W	29.31		29.60	D	0.20		0.29	
133.042	7.433	S	170.283	W	29.46		29.64	D	0.20		0.18	
133.083	7.167	S	170.250	W	29.40		29.68	D	0.20		0.28	
133.125	6.950	S	170.233	W	29.41		29.72	D	0.20		0.31	
133.167	6.800	S	170.233	W	29.39		29.76	D	0.20		0.37	
133.208	6.533	S	170.217	W	29.35		29.71	D	0.20		0.36	
133.250	6.283	S	170.200	W	29.35		29.65	D	0.20		0.30	
133.292	6.017	S	170.200	W	29.33		29.59	D	0.20		0.26	
133.333	5.733	S	170.167	W	29.37		29.53	D	0.20		0.16	
133.375	5.483	S	170.167	W	29.32		29.48	D	0.20		0.16	

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Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
133.417	5.217	S	170.167	W	29.11	29.42	D	0.20		0.31	
133.458	4.967	S	170.150	W	28.94	29.36	D	0.20		0.42	
133.500	4.700	S	170.117	W	29.02	29.41	D	0.20		0.39	
133.542	4.450	S	170.100	W	29.14	29.45	D	0.20		0.31	
133.583	4.183	S	170.100	W	29.28	29.50	D	0.20		0.22	
133.625	3.933	S	170.083	W	29.35	29.55	D	0.20		0.20	
133.667	3.667	S	170.067	W	29.37	29.60	D	0.20		0.23	
133.708	3.400	S	170.033	W	29.39	29.59	D	0.20		0.20	
133.750	3.133	S	170.033	W	29.37	29.59	D	0.20		0.22	
133.792	2.850	S	170.033	W	29.35	29.58	D	0.20		0.23	
133.833	2.583	S	170.017	W	29.35	29.57	D	0.20		0.22	
133.875	2.317	S	170.000	W	29.34	29.57	D	0.20		0.23	
133.917	2.033	S	169.967	W	29.33	29.56	D	0.20		0.23	
133.958	1.767	S	169.933	W	29.22	29.43	D	0.20		0.21	
134.000	1.517	S	169.900	W	29.23	29.18	D	0.20		-0.05	
134.042	1.250	S	169.867	W	29.25	28.92	D	0.20		-0.33	D
134.083	0.983	S	169.833	W	29.12	28.67	D	0.20		-0.45	D
134.125	0.717	S	169.817	W	28.63	28.42	D	0.20		-0.21	D
134.167	0.467	S	169.783	W	28.02	28.16	D	0.21		0.15	
134.208	0.217	S	169.767	W	27.64	28.11	D	0.21		0.47	
134.250	0.067	S	169.767	W	27.55	28.08	D	0.21		0.53	
134.292	0.133	S	169.717	W	27.39	28.04	D	0.21		0.65	D
134.333	0.033	N	169.600	W	27.22	28.00	D	0.21		0.78	D
134.375	0.000	N	169.583	W	27.23	27.97	D	0.21		0.74	D
134.417	0.017	S	169.650	W	27.21	27.93	D	0.21		0.72	D
134.458	0.017	S	169.567	W	27.17	27.89	D	0.22		0.72	D
134.500	0.017	S	169.567	W	27.14	27.86	D	0.22		0.72	D
134.542	0.017	S	169.550	W	27.14	27.82	D	0.22		0.68	D
134.583	0.017	S	169.550	W	27.11	27.78	D	0.22		0.67	D
134.625	0.017	S	169.550	W	27.11	27.74	D	0.22		0.63	
134.667	0.033	S	169.533	W	27.08	27.71	D	0.22		0.63	
134.708	0.017	S	169.600	W	27.09	27.67	D	0.22		0.58	
134.750	0.033	N	169.617	W	27.12	27.63	D	0.22		0.51	
134.792	0.017	N	169.567	W	27.07	27.60	D	0.22		0.53	
134.833	0.033	N	169.550	W	27.06	27.56	D	0.22		0.50	
134.875	0.033	N	169.600	W	27.07	27.52	D	0.22		0.45	
134.917	0.033	N	169.633	W	27.07	27.48	D	0.22		0.41	
134.958	0.033	N	169.550	W	27.11	27.45	D	0.22		0.34	
135.000	0.033	N	169.533	W	27.13	27.42	D	0.22		0.29	
135.042	0.033	N	169.467	W	27.13	27.41	D	0.22		0.28	
135.083	0.033	N	169.483	W	27.13	27.39	D	0.22		0.26	
135.125	0.033	N	169.467	W	27.15	27.38	D	0.22		0.23	
135.167	0.033	N	169.433	W	27.13	27.36	D	0.22		0.23	
135.208	0.033	N	169.417	W	27.10	27.35	D	0.22		0.25	
135.250	0.017	N	169.400	W	27.07	27.34	D	0.22		0.27	
135.292	0.017	N	169.367	W	27.06	27.33	D	0.22		0.27	
135.333	0.017	N	169.350	W	27.02	27.32	D	0.22		0.30	
135.375	0.033	N	169.350	W	27.02	27.32	D	0.22		0.30	
135.417	0.017	N	169.317	W	27.03	27.31	D	0.22		0.28	
135.458	0.017	N	169.300	W	27.01	27.30	D	0.22		0.29	

Date GMT	Latitude	Longitude	RITS/CO2/EPOCS 1988					Point-by-point	Flag
			Tss	Flag	Teq	Flag	Regr. Warming		
135.500	0.017	N 169.283	W 27.01		27.30	D	0.22		0.29
135.542	0.017	N 169.317	W 26.98		27.30	D	0.22		0.32
135.583	0.050	N 169.400	W 26.95		27.31	D	0.22		0.36
135.625	0.033	N 169.450	W 26.94		27.31	D	0.22		0.37
135.667	0.050	N 169.467	W 26.89		27.31	D	0.22		0.42
135.708	0.050	N 169.467	W 26.88		27.31	D	0.22		0.43
135.750	0.050	N 169.467	W 26.87		27.32	D	0.22		0.45
135.792	0.050	N 169.467	W 26.87		27.32	D	0.22		0.45
135.833	0.050	N 169.467	W 26.88		27.32	D	0.22		0.44
135.875	0.050	N 169.467	W 26.92		27.32	D	0.22		0.40
135.917	0.050	N 169.467	W 27.02		27.33	D	0.22		0.31
135.958	0.050	N 169.467	W 27.08		27.33	D	0.22		0.25
136.000	0.050	N 169.467	W 27.23		27.33	D	0.21		0.10
136.042	0.067	N 169.483	W 27.26		27.33	D	0.21		0.07
136.083	0.050	N 169.467	W 27.29		27.34	D	0.21		0.05
136.125	0.050	N 169.500	W 27.30		27.34	D	0.21		0.04
136.167	0.050	N 169.517	W 27.29		27.34	D	0.21		0.05
136.208	0.050	N 169.533	W 27.26		27.35	D	0.21		0.09
136.250	0.050	N 169.533	W 27.25		27.35	D	0.21		0.11
136.292	0.050	N 169.533	W 27.21		27.35	D	0.21		0.14
136.333	0.033	N 169.517	W 27.17		27.35	D	0.22		0.18
136.375	0.050	N 169.500	W 27.13		27.36	D	0.22		0.23
136.417	0.050	N 169.483	W 27.13		27.36	D	0.22		0.23
136.458	0.067	N 169.467	W 27.12		27.36	D	0.22		0.24
136.500	0.050	N 169.500	W 27.13		27.36	D	0.22		0.23
136.542	0.050	N 169.533	W 27.13		27.36	D	0.22		0.23
136.583	0.033	N 169.550	W 27.12		27.35	D	0.22		0.23
136.625	0.050	N 169.550	W 27.12		27.35	D	0.22		0.23
136.667	0.050	N 169.533	W 27.14		27.35	D	0.22		0.21
136.708	0.033	N 169.533	W 27.15		27.35	D	0.22		0.21
136.750	0.050	N 169.533	W 27.13		27.35	D	0.22		0.22
136.792	0.033	N 169.533	W 27.14		27.35	D	0.22		0.21
136.833	0.050	N 169.333	W 27.15		27.36	D	0.22		0.21
136.875	0.050	N 169.083	W 27.17		27.38	D	0.22		0.21
136.917	0.067	N 168.817	W 27.22		27.40	D	0.21		0.18
136.958	0.083	N 168.567	W 27.26		27.43	D	0.21		0.17
137.000	0.067	N 168.317	W 27.25		27.45	D	0.21		0.20
137.042	0.067	N 168.050	W 27.19		27.47	D	0.22		0.29
137.083	0.050	N 167.800	W 27.22		27.41	D	0.21		0.19
137.125	0.033	N 167.550	W 27.20		27.34	D	0.22		0.14
137.167	0.017	N 167.283	W 27.08		27.28	D	0.22		0.20
137.208	0.000	S 167.033	W 26.99		27.22	D	0.22		0.23
137.250	0.000	S 166.767	W 26.94		27.16	D	0.22		0.22
137.292	0.017	S 166.500	W 26.89		27.10	D	0.22		0.22
137.333	0.000	S 166.233	W 26.87		27.05	D	0.22		0.18
137.375	0.017	S 165.967	W 26.83		27.00	D	0.22		0.17
137.417	0.000	S 165.717	W 26.76		26.95	D	0.22		0.20
137.458	0.000	S 165.450	W 26.70		26.90	D	0.22		0.20
137.500	0.000	S 165.217	W 26.62		26.85	D	0.22		0.23
137.542	0.000	N 165.000	W 26.61		26.84	D	0.22		0.23

					RITS/CO2/EPOCS 1988							
Date GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
137.583	0.000	N	164.950	W	26.61		26.86	D	0.22		0.25	
137.625	0.000	N	164.933	W	26.60		26.88	D	0.22		0.29	
137.667	0.000	S	164.917	W	26.57		26.90	D	0.22		0.33	
137.708	0.017	S	164.900	W	26.55		26.93	D	0.22		0.38	
137.750	0.017	S	164.900	W	26.58		26.95	D	0.22		0.37	
137.792	0.000	S	164.883	W	26.59		26.97	D	0.22		0.38	
137.833	0.000	S	164.867	W	26.61		26.99	D	0.22		0.38	
137.875	0.000	S	164.850	W	26.66		27.01	D	0.22		0.35	
137.917	0.017	N	164.817	W	26.70		27.04	D	0.22		0.34	
137.958	0.017	N	164.800	W	26.77		27.06	D	0.22		0.29	
138.000	0.017	N	164.800	W	26.77		27.08	D	0.22		0.31	
138.042	0.000	N	164.700	W	26.75		27.10	D	0.22		0.35	
138.083	0.017	N	164.433	W	26.95		27.06	D	0.22		0.11	
138.125	0.017	N	164.183	W	26.92		27.02	D	0.22		0.10	
138.167	0.000	N	163.933	W	26.88		26.98	D	0.22		0.10	
138.208	0.000	S	163.667	W	26.80		26.94	D	0.22		0.14	
138.250	0.000	S	163.417	W	26.70		26.90	D	0.22		0.20	
138.292	0.017	S	163.100	W	26.64		26.86	D	0.22		0.22	
138.333	0.000	S	162.883	W	26.51		26.85	D	0.22		0.34	
138.375	0.017	S	162.650	W	26.50		26.85	D	0.22		0.35	
138.417	0.000	S	162.383	W	26.49		26.84	D	0.22		0.35	
138.458	0.000	S	162.117	W	26.38		26.84	D	0.22		0.46	
138.500	0.000	S	161.883	W	26.26		26.83	D	0.22		0.57	
138.542	0.000	S	161.633	W	26.13		26.83	D	0.22		0.70	D
138.583	0.017	N	161.367	W	26.11		26.83	D	0.22		0.72	D
138.625	0.033	N	161.100	W	26.09		26.83	D	0.22		0.74	D
138.667	0.033	N	160.833	W	26.09		26.83	D	0.22		0.74	D
138.708	0.050	N	160.617	W	26.02		26.84	D	0.22		0.82	D
138.750	0.033	N	160.350	W	25.98		26.84	D	0.22		0.86	D
138.792	0.017	N	160.083	W	25.95		26.84	D	0.22		0.89	D
138.833	0.000	N	160.000	W	26.23		26.84	D	0.22		0.61	
138.875	0.017	N	160.017	W	26.18		26.84	D	0.22		0.66	D
138.917	0.033	N	160.017	W	26.20		26.84	D	0.22		0.64	D
138.958	0.050	N	160.033	W	26.22		26.84	D	0.22		0.62	
139.000	0.067	N	160.033	W	26.35		26.85	D	0.22		0.50	
139.042	0.067	N	160.017	W	26.44		26.85	D	0.22		0.41	
139.083	0.067	N	160.017	W	26.48		26.85	D	0.22		0.37	
139.125	0.067	N	160.017	W	26.51		26.85	D	0.22		0.34	
139.167	0.050	N	160.017	W	26.54		26.85	D	0.22		0.31	
139.208	0.017	S	159.983	W	26.62		26.85	D	0.22		0.23	
139.250	0.017	N	159.833	W	26.68		26.87	D	0.22		0.19	
139.292	0.033	N	159.583	W	26.61		26.91	D	0.22		0.30	
139.333	0.033	N	159.350	W	26.60		26.95	D	0.22		0.35	
139.375	0.033	N	159.117	W	26.66		26.99	D	0.22		0.33	
139.417	0.017	N	158.900	W	26.79		27.04	D	0.22		0.25	
139.458	0.017	N	158.633	W	26.93		27.08	D	0.22		0.15	
139.500	0.017	N	158.400	W	27.00		27.06	D	0.22		0.06	
139.542	0.017	N	158.150	W	26.84		26.96	D	0.22		0.12	
139.583	0.017	N	157.917	W	26.71		26.86	D	0.22		0.15	
139.625	0.017	N	157.667	W	26.62		26.76	D	0.22		0.14	

				RITS/CO2/EPOCS 1988									
Date GMT	Latitude	Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag		
139.667	0.017	N	157.433	W	26.40	26.66	D	0.22			0.26		
139.708	0.000	N	157.183	W	26.18	26.56	D	0.22			0.38		
139.750	0.000	S	156.917	W	26.11	26.46	D	0.22			0.35		
139.792	0.000	S	156.683	W	26.04	26.37	D	0.22			0.33		
139.833	0.017	S	156.433	W	25.93	26.27	D	0.22			0.34		
139.875	0.000	S	156.133	W	25.88	26.17	D	0.22			0.29		
139.917	0.017	S	155.917	W	25.83	26.08	D	0.22			0.25		
139.958	0.017	S	155.667	W	25.79	26.03	D	0.23			0.24		
140.000	0.017	S	155.400	W	25.73	26.00	D	0.23			0.27		
140.042	0.017	S	155.150	W	25.65	26.00	D	0.23			0.35		
140.083	0.017	S	154.900	W	25.69	26.01	D	0.23			0.32		
140.125	0.017	S	154.650	W	25.76	26.04	D	0.23			0.28		
140.167	0.000	S	154.400	W	25.83	26.04	D	0.23			0.21		
140.208	0.000	S	154.167	W	25.79	26.02	D	0.23			0.23		
140.250	0.000	S	154.000	W	25.82	26.00	D	0.23			0.18		
140.292	0.000	N	153.967	W	25.74	25.98	D	0.23			0.24		
140.333	0.000	S	153.983	W	25.69	25.96	D	0.23			0.27		
140.375	0.000	N	153.967	W	25.68	25.94	D	0.23			0.26		
140.417	0.017	N	153.967	W	25.67	25.92	D	0.23			0.25		
140.458	0.000	S	153.933	W	25.61	25.90	D	0.23			0.29		
140.500	0.000	S	153.750	W	25.64	25.92	D	0.23			0.28		
140.542	0.017	S	153.483	W	25.68	25.94	D	0.23			0.27		
140.583	0.017	S	153.200	W	25.70	25.92	D	0.23			0.22		
140.625	0.017	S	152.967	W	25.71	25.91	D	0.23			0.20		
140.667	0.000	S	152.650	W	25.71	25.89	D	0.23			0.18		
140.708	0.000	N	152.433	W	25.67	25.87	D	0.23			0.20		
140.750	0.000	N	152.183	W	25.67	25.87	D	0.23			0.20		
140.792	0.017	S	152.083	W	25.70	25.91	D	0.23			0.22		
140.833	0.017	S	151.983	W	25.70	25.95	D	0.23			0.25		
140.875	0.017	S	151.967	W	25.76	25.99	D	0.23			0.23		
140.917	0.033	S	151.967	W	25.78	26.02	D	0.23			0.24		
140.958	0.033	S	151.950	W	25.82	26.06	D	0.23			0.24		
141.000	0.033	S	151.933	W	25.8	ML	26.10	D	0.23		*		
141.042	0.083	S	151.817	W	25.7	ML	26.05	D	0.23		*		
141.083	0.067	S	151.583	W	25.7	ML	25.99	D	0.23		*		
141.125	0.033	S	151.183	W	25.7	ML	25.89	D	0.23		*		
141.167	0.000	N	151.050	W	25.6	ML	25.76	D	0.23		*		
141.208	0.000	N	150.800	W	25.4	ML	25.60	D	0.23		*		
141.250	0.000	N	150.500	W	25.2	ML	25.42	D	0.23		*		
141.292	0.017	N	150.250	W	25.0	ML	25.33	D	0.23		*		
141.333	0.000	N	149.983	W	24.8	ML	25.26	D	0.23		*		
141.375	0.000	N	149.950	W	24.8	ML	25.19	D	0.23		*		
141.417	0.017	N	149.983	W	24.8	ML	25.12	D	0.23		*		
141.458	0.017	N	149.983	W	24.8	ML	25.05	D	0.23		*		
141.500	0.017	N	149.950	W	24.8	ML	24.98	D	0.23		*		
141.542	0.017	N	149.967	W	24.7	ML	24.91	D	0.23		*		
141.583	0.033	N	149.833	W	24.6	ML	24.84	D	0.23		*		
141.625	0.033	N	149.583	W	24.6	ML	24.77	D	0.23		*		
141.667	0.050	N	149.383	W	24.6	ML	24.73	D	0.23		*		
141.708	0.017	N	149.067	W	24.5	ML	24.70	D	0.23		*		

				RITS/CO2/EPOCS 1988									
Date GMT	Latitude	Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag		
141.750	0.033	N	148.817	W	24.5	ML	24.70	D	0.23		*		
141.792	0.017	N	148.550	W	24.5	ML	24.72	D	0.23		*		
141.833	0.017	N	148.300	W	24.6	ML	24.80	D	0.23		*		
141.875	0.067	S	148.150	W	24.7	ML	24.90	D	0.23		*		
141.917	0.050	S	147.900	W	24.8	ML	25.06	D	0.23		*		
141.958	0.017	S	147.650	W	25.1	ML	25.31	D	0.23		*		
142.000	0.000	N	147.400	W	25.2	ML	25.48	D	0.23		*		
142.042	0.017	N	147.133	W	25.2	ML	25.53	D	0.23		*		
142.083	0.017	N	146.883	W	25.3	ML	25.55	D	0.23		*		
142.125	0.000	N	146.633	W	25.3	ML	25.56	D	0.23		*		
142.167	0.000	N	146.383	W	25.6	ML	25.70	D	0.23		*		
142.208	0.000	S	146.133	W	25.8	ML	26.03	D	0.23		*		
142.250	0.000	S	145.883	W	26.0	ML	26.24	D	0.22		*		
142.292	0.000	S	145.633	W	26.1	ML	26.33	D	0.22		*		
142.333	0.000	S	145.383	W	26.2	ML	26.37	D	0.22		*		
142.375	0.000	S	145.150	W	26.2	ML	26.38	D	0.22		*		
142.417	0.017	N	145.167	W	26.2	ML	26.39	D	0.22		*		
142.458	0.033	N	145.167	W	26.2	ML	26.39	D	0.22		*		
142.500	0.033	N	145.150	W	26.2	ML	26.40	D	0.22		*		
142.542	0.000	N	144.967	W	26.2	ML	26.41	D	0.22		*		
142.583	0.017	S	144.933	W	26.2	ML	26.42	D	0.22		*		
142.625	0.033	S	144.883	W	26.2	ML	26.40	D	0.22		*		
142.667	0.117	S	144.633	W	26.3	ML	26.34	D	0.22		*		
142.708	0.200	S	144.400	W	26.3	ML	26.28	D	0.22		*		
142.750	0.300	S	144.150	W	26.1	ML	26.22	D	0.22		*		
142.792	0.383	S	143.917	W	25.9	ML	26.17	D	0.22		*		
142.833	0.483	S	143.683	W	25.9	ML	26.11	D	0.22		*		
142.875	0.600	S	143.433	W	25.8	ML	26.05	D	0.23		*		
142.917	0.683	S	143.217	W	25.7	ML	25.95	D	0.23		*		
142.958	0.800	S	142.950	W	25.5	ML	25.66	D	0.23		*		
143.000	0.917	S	142.717	W	25.1	ML	25.36	D	0.23		*		
143.042	1.033	S	142.467	W	24.7	ML	25.07	D	0.23		*		
143.083	1.150	S	142.217	W	24.4	ML	24.77	D	0.24		*		
143.125	1.250	S	141.967	W	24.2	ML	24.48	D	0.24		*		
143.167	1.367	S	141.700	W	24.1	ML	24.18	D	0.24		*		
143.208	1.467	S	141.433	W	23.9	ML	24.07	D	0.24		*		
143.250	1.567	S	141.150	W	23.7	ML	23.96	D	0.24		*		
143.292	1.667	S	140.917	W	23.6	ML	23.86	D	0.24		*		
143.333	1.767	S	140.617	W	23.6	ML	23.76	D	0.24		*		
143.375	1.850	S	140.367	W	23.5	ML	23.65	D	0.24		*		
143.417	1.933	S	140.133	W	23.4	ML	23.57	D	0.24		*		
143.458	1.983	S	139.950	W	23.4	ML	23.57	D	0.24		*		
143.500	1.983	S	139.950	W	23.4	ML	23.56	D	0.24		*		
143.542	1.983	S	139.950	W	23.4	ML	23.55	D	0.24		*		
143.583	1.983	S	139.950	W	23.4	ML	23.55	D	0.24		*		
143.625	1.983	S	139.950	W	23.4	ML	23.54	D	0.24		*		
143.667	2.000	S	139.950	W	23.4	ML	23.54	D	0.24		*		
143.708	2.017	S	139.933	W	23.4	ML	23.53	D	0.24		*		
143.750	2.000	S	139.950	W	23.4	ML	23.52	D	0.24		*		
143.792	2.000	S	139.933	W	23.4	ML	23.52	D	0.24		*		

					RITS/CO2/EPOCS 1988								
Date GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
143.833	2.017	S	139.933	W	23.5	ML	23.51	D	0.24			*	
143.875	1.000	S	139.933	W	23.4	ML	23.50	D	0.24			*	
143.917	1.667	S	139.983	W	23.2	ML	23.51	D	0.24			*	
143.958	1.500	S	139.983	W	23.3	ML	23.52	D	0.24			*	
144.000	1.517	S	139.967	W	23.3	ML	23.53	D	0.24			*	
144.042	1.350	S	139.967	W	23.3	ML	23.55	D	0.24			*	
144.083	1.117	S	139.983	W	23.3	ML	23.61	D	0.24			*	
144.125	1.000	S	140.000	W	23.5	ML	23.71	D	0.24			*	
144.167	1.000	S	139.983	W	23.5	ML	23.81	D	0.24			*	
144.208	0.833	S	139.950	W	23.7	ML	23.90	D	0.24			*	
144.250	0.600	S	140.000	W	23.8	ML	23.99	D	0.24			*	
144.292	0.500	S	139.983	W	23.9	ML	24.08	D	0.24			*	
144.333	0.483	S	139.983	W	23.9	ML	24.17	D	0.24			*	
144.375	0.267	S	139.983	W	24.0	ML	24.25	D	0.24			*	
144.417	0.067	S	139.983	W	24.2	ML	24.28	D	0.24			*	
144.458	0.067	S	139.900	W	24.2	ML	24.31	D	0.24			*	
144.500	0.050	S	139.900	W	24.7	ML	24.33	D	0.23			*	
144.542	0.050	S	139.900	W	24.3	ML	24.36	D	0.24			*	
144.583	0.050	S	139.900	W	24.3	ML	24.38	D	0.24			*	
144.625	0.033	S	139.917	W	24.3	ML	24.41	D	0.24			*	
144.667	0.050	S	139.917	W	24.4	H	24.44	D	0.24			*	
144.708	0.050	S	139.917	W	24.4	ML	24.46	D	0.24			*	
144.750	0.067	S	139.900	W	24.4	ML	24.49	D	0.24			*	
144.792	0.100	S	139.900	W	24.4	ML	24.51	D	0.24			*	
144.833	0.083	S	139.900	W	24.5	ML	24.54	D	0.23			*	
144.875	0.100	S	139.883	W	24.5	ML	24.56	D	0.23			*	
144.917	0.083	S	139.867	W	24.6	ML	24.59	D	0.23			*	
144.958	0.083	S	139.867	W	24.6	ML	24.61	D	0.23			*	
145.000	0.100	S	139.867	W	24.7	ML	24.64	D	0.23			*	
145.042	0.083	S	139.983	W	24.7	ML	24.66	D	0.23			*	
145.083	0.067	S	140.000	W	24.7	H	24.69	D	0.23			*	
145.125	0.050	S	140.033	W	24.7	H	24.71	D	0.23			*	
145.167	0.017	S	140.067	W	24.7	ML	24.74	D	0.23			*	
145.208	0.017	N	139.917	W	24.7	ML	24.76	D	0.23			*	
145.250	0.017	S	139.900	W	24.6	ML	24.79	D	0.23			*	
145.292	0.017	N	139.900	W	24.6	ML	24.81	D	0.23			*	
145.333	0.017	N	139.917	W	24.6	ML	24.84	D	0.23			*	
145.375	0.017	N	139.900	W	24.6	ML	24.87	D	0.23			*	
145.417	0.017	S	139.933	W	24.6	ML	24.89	D	0.23			*	
145.458	0.033	S	139.900	W	24.6	ML	24.92	D	0.23			*	
145.500	0.050	S	139.883	W	24.6	ML	24.94	D	0.23			*	
145.542	0.033	S	139.900	W	24.6	ML	24.97	D	0.23			*	
145.583	0.033	S	140.000	W	24.6	ML	24.99	D	0.23			*	
145.625	0.050	N	140.067	W	24.7	ML	25.02	D	0.23			*	
145.667	0.267	N	140.067	W	24.9	ML	25.04	D	0.23			*	
145.708	0.467	N	140.017	W	25.0	ML	25.14	D	0.23			*	
145.750	0.500	N	139.983	W	25.1	ML	25.24	D	0.23			*	
145.792	0.567	N	140.000	W	25.1	ML	25.34	D	0.23			*	
145.833	0.783	N	139.983	W	25.2	ML	25.44	D	0.23			*	
145.875	1.000	N	140.000	W	25.3	ML	25.45	D	0.23			*	

Date GMT	Latitude	Longitude	RITS/CO2/EPOCS 1988							Point-by-point	Flag
			Tss	Flag	Teq	Flag	Regr. Warming	Flag			
145.917	1.000 N	140.000 W	25.3	ML	25.47	D	0.23				*
145.958	1.000 N	140.000 W	25.3	ML	25.49	D	0.23				*
146.000	0.983 N	140.000 W	25.5	ML	25.50	D	0.23				*
146.042	0.983 N	140.000 W	25.4	ML	25.52	D	0.23				*
146.083	0.967 N	140.000 W	25.4	ML	25.54	D	0.23				*
146.125	1.033 N	139.983 W	25.4	ML	25.55	D	0.23				*
146.167	1.233 N	140.017 W	25.5	ML	25.57	D	0.23				*
146.208	1.450 N	140.000 W	25.3	ML	25.55	D	0.23				*
146.250	1.500 N	140.000 W	25.2	ML	25.52	D	0.23				*
146.292	1.583 N	140.017 W	25.2	ML	25.50	D	0.23				*
146.333	1.783 N	140.017 W	25.3	ML	25.47	D	0.23				*
146.375	1.900 N	140.000 W	25.1	H	25.45	D	0.23				*
146.417	2.017 N	139.983 W	24.8	ML	25.43	D	0.23				*
146.458	2.017 N	139.967 W	24.7	ML	25.41	D	0.23				*
146.500	2.033 N	139.967 W	24.7	ML	25.38	D	0.23				*
146.542	2.033 N	139.967 W	24.7	ML	25.36	D	0.23				*
146.583	2.017 N	139.967 W	24.6	ML	25.34	D	0.23				*
146.625	2.000 N	140.033 W	24.7	ML	25.32	D	0.23				*
146.667	2.000 N	140.050 W	24.7	ML	25.30	D	0.23				*
146.708	2.000 N	140.067 W	24.7	ML	25.27	D	0.23				*
146.750	2.017 N	140.067 W	24.7	ML	25.25	D	0.23				*
146.792	2.000 N	140.067 W	24.7	ML	25.23	D	0.23				*
146.833	2.000 N	140.067 W	24.7	ML	25.21	D	0.23				*
146.875	2.000 N	140.067 W	24.8	ML	25.19	D	0.23				*
146.917	2.000 N	140.067 W	25.0	ML	25.17	D	0.23				*
146.958	2.000 N	140.067 W	25.0	ML	25.14	D	0.23				*
147.000	2.000 N	140.083 W	24.8	ML	25.12	D	0.23				*
147.042	2.033 N	139.950 W	25.0	ML	25.10	D	0.23				*
147.083	2.000 N	139.967 W	25.2	ML	25.08	D	0.23				*
147.125	1.983 N	139.967 W	24.9	ML	25.06	D	0.23				*
147.167	1.967 N	139.983 W	24.9	ML	25.03	D	0.23				*
147.208	1.950 N	140.017 W	24.9	ML	25.01	D	0.23				*
147.250	1.933 N	140.017 W	24.9	ML	24.99	D	0.23				*
147.292	1.950 N	140.033 W	25.0	ML	24.97	D	0.23				*
147.333	1.933 N	140.033 W	25.0	ML	24.95	D	0.23				*
147.375	1.950 N	140.083 W	25.0	ML	24.93	D	0.23				*
147.417	1.950 N	140.050 W	25.0	ML	24.90	D	0.23				*
147.458	2.133 N	140.050 W	25.4	ML	24.88	D	0.23				*
147.500	2.400 N	140.050 W	24.6	ML	24.86	D	0.23				*
147.542	2.617 N	140.033 W	24.7	ML	24.98	D	0.23				*
147.583	2.867 N	140.033 W	25.8	ML	25.41	D	0.23				*
147.625	2.983 N	140.000 W	25.8	ML	25.83	D	0.23				*
147.667	2.983 N	140.017 W	26.2	ML	26.25	D	0.22				*
147.708	3.117 N	140.033 W	26.2	ML	26.67	D	0.22				*
147.750	3.367 N	140.067 W	27.1	ML	27.09	D	0.22				*
147.792	3.617 N	140.050 W	27.1	ML	27.31	D	0.22				*
147.833	3.850 N	140.017 W	27.0	ML	27.33	D	0.22				*
147.875	4.000 N	140.000 W	27.0	ML	27.35	D	0.22				*
147.917	3.983 N	140.000 W	27.1	ML	27.37	D	0.22				*
147.958	4.083 N	140.017 W	27.1	ML	27.39	D	0.22				*

RITS/CO2/EPOCS 1988													
Date	GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
148.000		4.333	N	140.033	W	27.1	ML	27.41	D	0.22			*
148.042		4.583	N	140.017	W	27.1	ML	27.43	D	0.22			*
148.083		4.850	N	140.000	W	27.0	ML	27.43	D	0.22			*
148.125		5.000	N	140.000	W	26.9	ML	27.43	D	0.22			*
148.167		5.000	N	139.967	W	26.9	ML	27.43	D	0.22			*
148.208		5.017	N	139.983	W	26.8	ML	27.43	D	0.22			*
148.250		5.033	N	140.000	W	26.8	ML	27.43	D	0.22			*
148.292		5.033	N	140.000	W	26.8	ML	27.43	D	0.22			*
148.333		5.033	N	140.000	W	26.8	ML	27.43	D	0.22			*
148.375		5.033	N	140.017	W	26.8	ML	27.43	D	0.22			*
148.417		5.000	N	140.017	W	26.8	ML	27.44	D	0.22			*
148.458		5.000	N	140.017	W	26.8	ML	27.44	D	0.22			*
148.500		4.983	N	140.050	W	26.8	ML	27.44	D	0.22			*
148.542		5.000	N	140.000	W	26.8	ML	27.44	D	0.22			*
148.583		4.983	N	140.000	W	26.8	ML	27.44	D	0.22			*
148.625		4.983	N	140.000	W	26.8	ML	27.44	D	0.22			*
148.667		4.967	N	139.983	W	26.8	ML	27.44	D	0.22			*
148.708		5.017	N	139.983	W	26.7	ML	27.44	D	0.22			*
148.750		5.200	N	139.983	W	26.7	ML	27.44	D	0.22			*
148.792		5.467	N	139.967	W	27.4	ML	27.44	D	0.21			*
148.833		5.733	N	139.983	W	27.7	ML	27.56	D	0.21			*
148.875		5.983	N	140.000	W	27.7	ML	27.89	D	0.21			*
148.917		6.000	N	139.983	W	27.8	ML	27.82	D	0.21			*
148.958		6.083	N	139.983	W	27.9	ML	27.95	D	0.21			*
149.000		6.317	N	139.983	W	27.9	ML	28.08	D	0.21			*
149.042		6.583	N	140.000	W	27.9	ML	28.18	D	0.21			*
149.083		6.833	N	140.000	W	27.7	ML	28.16	D	0.21			*
149.125		7.000	N	140.000	W	27.7	ML	28.14	D	0.21			*
149.167		7.050	N	139.983	W	27.7	ML	28.12	D	0.21			*
149.208		7.050	N	139.983	W	27.6	ML	28.10	D	0.21			*
149.250		7.017	N	139.983	W	27.6	ML	28.08	D	0.21			*
149.292		7.000	N	139.983	W	27.6	ML	28.06	D	0.21			*
149.333		6.983	N	140.000	W	27.6	ML	28.04	D	0.21			*
149.375		6.967	N	140.000	W	27.7	ML	28.02	D	0.21			*
149.417		6.933	N	140.000	W	27.7	ML	28.00	D	0.21			*
149.458		6.933	N	140.000	W	27.7	ML	27.98	D	0.21			*
149.500		6.983	N	140.000	W	27.6	ML	27.96	D	0.21			*
149.542		6.983	N	140.000	W	27.5	H	27.95	D	0.21			*
149.583		6.983	N	140.000	W	27.4	ML	27.93	D	0.21			*
149.625		6.967	N	140.000	W	27.6	ML	27.91	D	0.21			*
149.667		6.983	N	140.017	W	27.6	ML	27.89	D	0.21			*
149.708		6.983	N	140.000	W	27.6	ML	27.87	D	0.21			*
149.750		7.117	N	139.983	W	27.4	ML	27.85	D	0.21			*
149.792		7.367	N	140.017	W	27.6	ML	27.83	D	0.21			*
149.833		7.633	N	140.017	W	27.6	ML	27.86	D	0.21			*
149.875		7.917	N	140.017	W	27.6	ML	27.95	D	0.21			*
149.917		8.000	N	140.000	W	27.8	ML	28.04	D	0.21			*
149.958		8.033	N	140.000	W	28.0	ML	28.12	D	0.21			*
150.000		8.317	N	140.017	W	27.9	ML	28.21	D	0.21			*
150.042		8.583	N	140.017	W	27.7	ML	28.26	D	0.21			*

Date GMT	Latitude	Longitude	RITS/CO2/EPOCS 1988								Point-by-point	Flag
			Tss	Flag	Teq	Flag	Regr.	Warming	Flag			
150.083	8.867	N	140.017	W	27.7	ML	28.25	D	0.21		*	
150.125	9.000	N	140.017	W	27.7	ML	28.23	D	0.21		*	
150.167	9.017	N	139.917	W	27.7	ML	28.22	D	0.21		*	
150.208	9.083	N	139.933	W	27.7	ML	28.21	D	0.21		*	
150.250	8.933	N	139.967	W	27.8	ML	28.19	D	0.21		*	
150.292	8.983	N	139.733	W	27.7	ML	28.18	D	0.21		*	
150.333	8.967	N	139.600	W	27.7	ML	28.17	D	0.21		*	
150.375	8.933	N	139.617	W	27.7	ML	28.15	D	0.21		*	
150.417	8.883	N	139.800	W	27.7	ML	28.14	D	0.21		*	
150.458	8.867	N	140.017	W	27.6	ML	28.13	D	0.21		*	
150.500	9.000	N	140.017	W	27.6	ML	28.11	D	0.21		*	
150.542	8.983	N	140.033	W	27.6	ML	28.10	D	0.21		*	
150.583	8.933	N	140.083	W	27.6	ML	28.08	D	0.21		*	
150.625	9.133	N	140.083	W	27.5	ML	28.07	D	0.21		*	
150.667	8.900	N	140.067	W	27.6	ML	28.06	D	0.21		*	
150.708	9.100	N	140.100	W	27.6	ML	28.04	D	0.21		*	
150.750	8.950	N	140.133	W	27.6	ML	28.03	D	0.21		*	
150.792	9.017	N	140.150	W	27.6	ML	28.02	D	0.21		*	
150.833	8.967	N	140.033	W	27.6	ML	28.00	D	0.21		*	
150.875	9.000	N	140.000	W	27.6	ML	27.99	D	0.21		*	
150.917	8.983	N	140.000	W	27.7	ML	27.98	D	0.21		*	
150.958	8.983	N	140.017	W	27.7	ML	27.96	D	0.21		*	
151.000	8.983	N	140.033	W	27.7	ML	27.95	D	0.21		*	
151.042	8.983	N	140.067	W	27.7	IH	27.94	D	0.21		*	
151.083	8.983	N	140.083	W	27.7	IH	27.92	D	0.21		*	
151.125	8.983	N	140.100	W	27.7	ML	27.91	D	0.21		*	
151.167	8.983	N	140.083	W	27.7	ML	27.90	D	0.21		*	
151.208	8.983	N	140.083	W	27.7	ML	27.88	D	0.21		*	
151.250	8.983	N	140.083	W	27.6	ML	27.87	D	0.21		*	
151.292	8.983	N	140.083	W	27.6	ML	27.86	D	0.21		*	
151.333	9.000	N	140.117	W	27.6	ML	27.84	D	0.21		*	
151.375	8.983	N	140.167	W	27.6	ML	27.83	D	0.21		*	
151.417	8.983	N	140.167	W	27.6	ML	27.82	D	0.21		*	
151.458	8.983	N	140.150	W	27.6	ML	27.80	D	0.21		*	
151.500	9.000	N	140.150	W	27.6	ML	27.79	D	0.21		*	
151.542	8.983	N	140.150	W	27.6	ML	27.78	D	0.21		*	
151.583	9.000	N	140.133	W	27.6	ML	27.76	D	0.21		*	
151.625	9.000	N	140.117	W	27.6	ML	27.75	D	0.21		*	
151.667	9.000	N	140.000	W	27.5	ML	27.74	D	0.21		*	
151.708	8.950	N	140.017	W	27.5	ML	27.73	D	0.21		*	
151.750	9.050	N	140.050	W	27.5	ML	27.73	D	0.21		*	
151.792	9.100	N	140.067	W	27.5	ML	27.72	D	0.21		*	
151.833	9.067	N	140.100	W	27.5	ML	27.72	D	0.21		*	
151.875	9.067	N	140.117	W	27.5	ML	27.71	D	0.21		*	
151.917	9.033	N	140.117	W	27.5	ML	27.71	D	0.21		*	
151.958	9.017	N	140.133	W	27.5	ML	27.70	D	0.21		*	
152.000	8.983	N	140.167	W	27.5	ML	27.70	D	0.21		*	
152.042	8.983	N	140.167	W	27.5	ML	27.69	D	0.21		*	
152.083	9.017	N	140.150	W	27.5	ML	27.69	D	0.21		*	
152.125	9.283	N	140.150	W	27.6	ML	27.68	D	0.21		*	

					RITS/CO2/EPOCS 1988								
Date GMT	Latitude	Longitude			Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
152.167	9.550	N	140.100	W	27.5	ML	27.67	ID	0.21				•
152.208	9.800	N	140.050	W	27.5	ML	27.64	ID	0.21				•
152.250	10.000	N	140.000	W	27.5	ML	27.60	ID	0.21				•
152.292	10.017	N	140.000	W	27.5	ML	27.56	ID	0.21				•
152.333	10.233	N	140.017	W	27.4	ML	27.52	ID	0.21				•
152.375	10.483	N	140.033	W	27.3	ML	27.48	ID	0.21				•
152.417	10.750	N	140.033	W	27.1	ML	27.35	ID	0.22				•
152.458	11.000	N	140.000	W	27.0	ML	27.21	ID	0.22				•
152.500	11.017	N	140.000	W	27.0	ML	27.08	ID	0.22				•
152.542	11.133	N	140.017	W	27.0	ML	26.95	ID	0.22				•
152.583	11.383	N	140.000	W	26.8	ML	26.81	ID	0.22				•
152.625	11.650	N	140.017	W	26.4	ML	26.76	ID	0.22				•
152.667	11.900	N	139.983	W	25.8	ML	26.77	ID	0.23				•
152.708	12.000	N	140.017	W	25.9	ML	26.79	ID	0.22				•
152.750	12.050	N	140.100	W	26.0	ML	26.80	ID	0.22				•
152.792	12.150	N	140.017	W	26.0	ML	26.81	ID	0.22				•
152.833	12.233	N	140.600	W	26.2	ML	26.83	ID	0.22				•
152.875	12.317	N	140.850	W	26.4	ML	26.84	ID	0.22				•
152.917	12.450	N	141.100	W	26.7	ML	26.86	ID	0.22				•
152.958	12.550	N	141.350	W	26.7	ML	26.87	ID	0.22				•
153.000	12.667	N	141.600	W	26.8	ML	26.88	ID	0.22				•
153.042	12.783	N	141.850	W	26.9	ML	26.90	ID	0.22				•
153.083	12.883	N	142.100	W	26.8	ML	26.92	ID	0.22				•
153.125	13.000	N	142.367	W	26.8	ML	26.94	ID	0.22				•
153.167	13.100	N	142.617	W	26.6	ML	26.86	ID	0.22				•
153.208	13.250	N	142.833	W	26.4	ML	26.79	ID	0.22				•
153.250	13.417	N	143.050	W	26.4	ML	26.72	ID	0.22				•
153.292	13.517	N	143.267	W	26.3	ML	26.64	ID	0.22				•
153.333	13.550	N	143.467	W	26.5	ML	26.57	ID	0.22				•
153.375	13.583	N	143.683	W	26.4	ML	26.33	ID	0.22				•
153.417	13.667	N	143.883	W	25.8	ML	26.09	ID	0.23				•
153.458	13.750	N	144.100	W	25.62	R	25.85	ID	0.23	R			•
153.500	13.833	N	144.333	W	25.38	R	25.61	ID	0.23	R			•
153.542	13.917	N	144.567	W	25.14	R	25.38	ID	0.24	R			•
153.583	14.000	N	144.767	W	24.90	R	25.14	ID	0.24	R			•
153.625	14.100	N	145.017	W	24.86	R	25.10	ID	0.24	R			•
153.667	14.200	N	145.267	W	24.84	R	25.08	ID	0.24	R			•
153.708	14.317	N	145.517	W	24.82	R	25.06	ID	0.24	R			•
153.750	14.450	N	145.750	W	24.80	R	25.04	ID	0.24	R			•
153.792	14.550	N	146.017	W	24.78	R	25.02	ID	0.24	R			•
153.833	14.583	N	146.133	W	24.79	R	25.03	ID	0.24	R			•
153.875	14.583	N	146.133	W	24.81	R	25.05	ID	0.24	R			•
153.917	14.583	N	146.150	W	24.82	R	25.06	ID	0.24	R			•
153.958	14.600	N	146.200	W	24.84	R	25.08	ID	0.24	R			•
154.000	14.617	N	146.250	W	24.86	R	25.10	ID	0.24	R			•
154.042	14.633	N	146.300	W	24.87	R	25.11	ID	0.24	R			•
154.083	14.733	N	146.550	W	24.89	R	25.13	ID	0.24	R			•
154.125	14.833	N	146.833	W	24.90	R	25.14	ID	0.24	R			•
154.167	14.933	N	147.033	W	24.92	R	25.16	ID	0.24	R			•
154.208	15.017	N	147.200	W	24.92	R	25.16	ID	0.24	R			•

RITS/CO2/EPOCS 1988												
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
154.250	15.133	N	147.467	W	24.92	R	25.16	D	0.24	R	*	
154.292	15.217	N	147.667	W	24.92	R	25.16	D	0.24	R	*	
154.333	15.350	N	147.883	W	24.91	R	25.15	D	0.24	R	*	
154.375	15.433	N	148.083	W	24.91	R	25.15	D	0.24	R	*	
154.417	15.533	N	148.283	W	24.91	R	25.15	D	0.24	R	*	
154.458	15.617	N	148.483	W	24.90	R	25.14	D	0.24	R	*	
154.500	15.717	N	148.700	W	24.90	R	25.14	D	0.24	R	*	
154.542	15.800	N	148.917	W	24.89	R	25.13	D	0.24	R	*	
154.583	15.883	N	149.117	W	24.89	R	25.13	D	0.24	R	*	
154.625	15.967	N	149.317	W	24.88	R	25.12	D	0.24	R	*	
154.667	16.067	N	149.550	W	24.88	R	25.12	D	0.24	R	*	
154.708	16.167	N	149.733	W	24.87	R	25.11	D	0.24	R	*	
154.750	16.267	N	149.933	W	24.87	R	25.11	D	0.24	R	*	
154.792	16.367	N	150.167	W	24.86	R	25.10	D	0.24	R	*	
154.833	16.417	N	150.267	W	24.89	R	25.13	D	0.24	R	*	
154.875	16.417	N	150.267	W	24.92	R	25.16	D	0.24	R	*	
154.917	16.433	N	150.267	W	24.96	R	25.20	D	0.24	R	*	
154.958	16.450	N	150.283	W	24.99	R	25.23	D	0.24	R	*	
155.000	16.433	N	150.267	W	25.02	R	25.26	D	0.24	R	*	
155.042	16.517	N	150.467	W	25.01	R	25.25	D	0.24	R	*	
155.083	16.617	N	150.683	W	24.97	R	25.21	D	0.24	R	*	
155.125	16.683	N	150.850	W	24.93	R	25.17	D	0.24	R	*	
155.167	16.817	N	151.100	W	24.89	R	25.13	D	0.24	R	*	
155.208	16.933	N	151.367	W	24.85	R	25.09	D	0.24	R	*	
155.250	17.050	N	151.617	W	24.81	R	25.05	D	0.24	R	*	

## **SAGA II 1987**

SAGA II 1987									
Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag	
122.500	22.200	N	156.500	W	23.20	D	0.31		
122.542	22.478	N	156.572	W	23.20	D	0.31		
122.583	22.756	N	156.644	W	23.20	D	0.31		
122.625	23.033	N	156.717	W	23.20	D	0.31		
122.667	23.156	N	156.967	W	23.10	D	0.31		
122.708	23.278	N	157.217	W	23.10	D	0.31		
122.750	23.400	N	157.467	W	23.00	D	0.32		
122.792	23.556	N	157.733	W	23.00	D	0.32		
122.833	23.711	N	158.000	W	23.00	D	0.32		
122.875	23.867	N	158.267	W	23.00	D	0.32		
122.917	23.900	N	158.500	W	23.00	D	0.32		
122.958	23.933	N	158.733	W	22.90	D	0.32		
123.000	23.967	N	158.967	W	22.90	D	0.32		
123.042	23.967	N	159.278	W	22.50	D	0.32		
123.083	23.967	N	159.589	W	22.20	D	0.33		
123.125	23.967	N	159.900	W	21.80	D	0.33		
123.167	23.972	N	160.156	W	22.10	D	0.33		
123.208	23.978	N	160.411	W	22.30	D	0.33		
123.250	23.983	N	160.667	W	22.60	D	0.32		
123.292	24.128	N	160.878	W	22.40	D	0.33		
123.333	24.272	N	161.089	W	22.20	D	0.33		
123.375	24.417	N	161.300	W	22.00	D	0.33		
123.417	24.656	N	161.489	W	22.20	D	0.33		
123.458	24.894	N	161.678	W	22.40	D	0.33		
123.500	25.133	N	161.867	W	22.60	D	0.32		
123.542	25.356	N	162.033	W	22.70	D	0.32		
123.583	25.578	N	162.200	W	22.70	D	0.32		
123.625	25.800	N	162.367	W	22.80	D	0.32		
123.667	26.017	N	162.544	W	22.70	D	0.32		
123.708	26.233	N	162.722	W	22.70	D	0.32		
123.750	26.450	N	162.900	W	22.60	D	0.32		
123.792	26.600	N	163.117	W	21.80	D	0.33		
123.833	26.750	N	163.333	W	21.00	D	0.35		
123.875	26.900	N	163.550	W	20.30	D	0.36		
123.917	26.889	N	163.567	W	20.40	D	0.36		
123.958	26.878	N	163.583	W	20.50	D	0.36		
124.000	26.867	N	163.600	W	20.60	D	0.35		
124.042	26.939	N	163.756	W	20.60	D	0.35		
124.083	27.011	N	163.911	W	20.60	D	0.35		
124.125	27.083	N	164.067	W	20.60	D	0.35		
124.167	27.144	N	164.189	W	20.60	D	0.35		
124.208	27.206	N	164.311	W	20.60	D	0.35		
124.250	27.267	N	164.433	W	20.60	D	0.35		
124.292	27.333	N	164.556	W	20.60	D	0.35		
124.333	27.400	N	164.678	W	20.60	D	0.35		
124.375	27.467	N	164.800	W	20.60	D	0.35		
124.417	27.533	N	164.933	W	20.60	D	0.35		
124.458	27.600	N	165.067	W	20.60	D	0.35		
124.500	27.667	N	165.200	W	20.60	D	0.35		
124.542	27.794	N	165.400	W	20.60	D	0.35		

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Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag	
124.583	27.922	N	165.600	W	20.70	D	0.35		
124.625	28.050	N	165.800	W	20.80	D	0.35		
124.667	28.172	N	166.044	W	20.80	D	0.35		
124.708	28.294	N	166.289	W	20.80	D	0.35		
124.750	28.417	N	166.533	W	20.80	D	0.35		
124.792	28.539	N	166.733	W	20.50	D	0.36		
124.833	28.661	N	166.933	W	20.20	D	0.36		
124.875	28.783	N	167.133	W	20.00	D	0.36		
124.917	28.922	N	167.389	W	19.50	D	0.37		
124.958	29.061	N	167.644	W	19.00	D	0.38		
125.000	29.200	N	167.900	W	18.50	D	0.39		
125.042	29.222	N	167.928	W	18.90	D	0.38		
125.083	29.244	N	167.956	W	19.30	D	0.37		
125.125	29.267	N	167.983	W	19.80	D	0.37		
125.167	29.306	N	168.056	W	19.30	D	0.37		
125.208	29.344	N	168.128	W	18.80	D	0.38		
125.250	29.383	N	168.200	W	18.40	D	0.39		
125.292	29.411	N	168.256	W	18.30	D	0.39		
125.333	29.439	N	168.311	W	18.20	D	0.39		
125.375	29.467	N	168.367	W	18.20	D	0.39		
125.417	29.594	N	168.617	W	18.20	D	0.39		
125.458	29.722	N	168.867	W	18.20	D	0.39		
125.500	29.850	N	169.117	W	18.20	D	0.39		
125.542	29.944	N	169.311	W	18.20	D	0.39		
125.583	30.039	N	169.506	W	18.20	D	0.39		
125.625	30.133	N	169.700	W	18.20	D	0.39		
125.667	30.539	N	170.394	W	18.10	D	0.39		
125.708	30.944	N	171.089	W	18.00	D	0.39		
125.750	31.350	N	171.783	W	18.00	D	0.40		
125.792	31.467	N	172.006	W	17.60	D	0.40		
125.833	31.583	N	172.228	W	17.20	D	0.41		
125.875	31.700	N	172.450	W	16.80	D	0.41		
125.917	31.794	N	172.622	W	17.00	D	0.41		
125.958	31.889	N	172.794	W	17.20	D	0.41		
126.000	31.983	N	172.967	W	17.30	D	0.40		
126.042	31.989	N	173.300	W	17.70	D	0.40		
126.083	31.994	N	173.633	W	18.00	D	0.39		
126.125	32.000	N	173.967	W	18.40	D	0.39		
126.167	32.128	N	173.906	W	17.80	D	0.40		
126.208	32.256	N	173.845	W	17.30	D	0.41		
126.250	32.383	N	173.783	W	16.70	D	0.41		
126.292	32.483	N	173.983	W	16.30	D	0.42		
126.333	32.583	N	174.183	W	15.90	D	0.43		
126.375	32.683	N	174.383	W	15.40	D	0.44		
126.417	32.833	N	174.639	W	15.20	D	0.44		
126.458	32.983	N	174.894	W	15.00	D	0.44		
126.500	33.133	N	175.150	W	14.80	D	0.44		
126.542	33.272	N	175.400	W	14.80	D	0.45		
126.583	33.411	N	175.650	W	14.70	D	0.45		
126.625	33.550	N	175.900	W	14.60	D	0.45		

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Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag	
126.667	33.667	N	176.139	W	15.50	D	0.43		
126.708	33.783	N	176.378	W	16.40	D	0.42		
126.750	33.900	N	176.617	W	17.30	D	0.40		
126.792	34.033	N	176.833	W	17.10	D	0.41		
126.833	34.167	N	177.050	W	16.90	D	0.41		
126.875	34.300	N	177.267	W	16.70	D	0.41		
126.917	34.450	N	177.539	W	16.10	D	0.43		
126.958	34.600	N	177.811	W	15.40	D	0.44		
127.000	34.750	N	178.083	W	14.70	D	0.45		
127.042	34.806	N	178.144	W	14.90	D	0.44		
127.083	34.861	N	178.206	W	15.10	D	0.44		
127.125	34.917	N	178.267	W	15.30	D	0.44		
127.167	35.050	N	178.506	W	15.30	D	0.44		
127.208	35.183	N	178.744	W	15.30	D	0.44		
127.250	35.317	N	178.983	W	15.30	D	0.44		
127.292	35.450	N	179.233	W	15.20	D	0.44		
127.333	35.583	N	179.483	W	15.10	D	0.44		
127.375	35.717	N	179.733	W	14.90	D	0.44		
127.417	35.833	N	179.983	W	14.90	D	0.44		
127.458	35.950	N	179.767	E	14.90	D	0.44		
127.500	36.067	N	179.517	E	14.80	D	0.44		
127.542	36.200	N	179.256	E	14.70	D	0.45		
127.583	36.333	N	178.994	E	14.50	D	0.45		
127.625	36.467	N	178.733	E	14.30	D	0.45		
127.667	36.594	N	178.495	E	14.30	D	0.45		
127.708	36.722	N	178.256	E	14.20	D	0.45		
127.750	36.850	N	178.017	E	14.10	D	0.46		
127.792	36.950	N	177.806	E	14.50	D	0.45		
127.833	37.050	N	177.594	E	14.80	D	0.45		
127.875	37.150	N	177.383	E	15.10	D	0.44		
127.917	37.267	N	177.100	E	14.90	D	0.44		
127.958	37.383	N	176.817	E	14.70	D	0.45		
128.000	37.500	N	176.533	E	14.40	D	0.45		
128.042	37.556	N	176.445	E	14.00	D	0.46		
128.083	37.611	N	176.356	E	13.50	D	0.46		
128.125	37.667	N	176.267	E	13.10	D	0.47		
128.167	37.739	N	176.222	E	13.00	D	0.47		
128.208	37.811	N	176.178	E	13.00	D	0.47		
128.250	37.883	N	176.133	E	12.90	D	0.48		
128.292	38.006	N	175.878	E	12.80	D	0.48		
128.333	38.128	N	175.622	E	12.80	D	0.48		
128.375	38.250	N	175.367	E	12.70	D	0.48		
128.417	38.372	N	175.061	E	12.50	D	0.48		
128.458	38.494	N	174.756	E	12.30	D	0.48		
128.500	38.617	N	174.450	E	12.10	D	0.49		
128.542	38.728	N	174.145	E	12.60	D	0.48		
128.583	38.839	N	173.839	E	13.00	D	0.47		
128.625	38.950	N	173.533	E	13.50	D	0.47		
128.667	39.061	N	173.333	E	13.20	D	0.47		
128.708	39.172	N	173.133	E	12.80	D	0.48		

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Date	GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag
128.750	39.283	N		172.933	E	12.50	D	0.48	
128.792	39.383	N		172.750	E	12.20	D	0.49	
128.833	39.483	N		172.567	E	11.90	D	0.49	
128.875	39.583	N		172.383	E	11.60	D	0.50	
128.917	39.689	N		172.106	E	10.40	D	0.51	
128.958	39.794	N		171.828	E	9.20	D	0.53	
129.000	39.900	N		171.550	E	8.10	D	0.55	
129.042	40.022	N		171.311	E	8.10	D	0.55	
129.083	40.144	N		171.072	E	8.20	D	0.55	
129.125	40.267	N		170.833	E	8.30	D	0.55	
129.167	40.367	N		170.572	E	8.30	D	0.55	
129.208	40.467	N		170.311	E	8.30	D	0.55	
129.250	40.567	N		170.050	E	8.30	D	0.55	
129.292	40.644	N		169.817	E	8.30	D	0.55	
129.333	40.722	N		169.583	E	8.30	D	0.55	
129.375	40.800	N		169.350	E	8.40	D	0.55	
129.417	40.911	N		169.067	E	8.30	D	0.55	
129.458	41.022	N		168.783	E	8.30	D	0.55	
129.500	41.133	N		168.500	E	8.30	D	0.55	
129.542	41.233	N		168.233	E	8.20	D	0.55	
129.583	41.333	N		167.967	E	8.10	D	0.55	
129.625	41.433	N		167.700	E	8.10	D	0.55	
129.667	41.533	N		167.467	E	7.70	D	0.56	
129.708	41.633	N		167.233	E	7.40	D	0.56	
129.750	41.733	N		167.000	E	7.10	D	0.57	
129.792	41.844	N		166.756	E	6.20	D	0.58	
129.833	41.956	N		166.511	E	5.30	D	0.59	
129.875	42.067	N		166.267	E	4.40	D	0.61	
129.917	42.183	N		165.967	E	4.70	D	0.61	
129.958	42.300	N		165.667	E	4.90	D	0.60	
130.000	42.417	N		165.367	E	5.10	D	0.60	
130.042	42.561	N		165.033	E	5.30	D	0.60	
130.083	42.706	N		164.700	E	5.40	D	0.59	
130.125	42.850	N		164.367	E	5.60	D	0.59	
130.167	42.972	N		164.133	E	5.50	D	0.59	
130.208	43.094	N		163.900	E	5.40	D	0.59	
130.250	43.217	N		163.667	E	5.40	D	0.59	
130.292	43.389	N		163.345	E	5.40	D	0.59	
130.333	43.561	N		163.022	E	5.40	D	0.59	
130.375	43.733	N		162.700	E	5.40	D	0.59	
130.417	43.911	N		162.395	E	4.80	D	0.60	
130.458	44.089	N		162.089	E	4.20	D	0.61	
130.500	44.267	N		161.783	E	3.60	D	0.62	
130.542	44.433	N		161.478	E	3.50	D	0.62	
130.583	44.600	N		161.172	E	3.40	D	0.63	
130.625	44.767	N		160.867	E	3.20	D	0.63	
130.667	44.928	N		160.561	E	3.10	D	0.63	
130.708	45.089	N		160.256	E	3.00	D	0.63	
130.750	45.250	N		159.950	E	2.80	D	0.63	
130.792	45.400	N		159.667	E	2.70	D	0.64	

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Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag
130.833	45.550	N	159.383	E	2.60	D	0.64	
130.875	45.700	N	159.100	E	2.40	D	0.64	
130.917	45.867	N	158.811	E	2.40	D	0.64	
130.958	46.033	N	158.522	E	2.40	D	0.64	
131.000	46.200	N	158.233	E	2.40	D	0.64	
131.042	46.417	N	157.933	E	2.40	D	0.64	
131.083	46.633	N	157.633	E	2.40	D	0.64	
131.125	46.850	N	157.333	E	2.40	D	0.64	
131.167	47.022	N	157.089	E	2.20	D	0.64	
131.208	47.194	N	156.845	E	2.00	D	0.65	
131.250	47.367	N	156.600	E	1.80	D	0.65	
131.292	47.400	N	156.567	E	1.90	D	0.65	
131.333	47.433	N	156.533	E	2.00	D	0.65	
131.375	47.467	N	156.500	E	2.00	D	0.65	
131.417	47.511	N	156.456	E	2.00	D	0.65	
131.458	47.556	N	156.411	E	2.00	D	0.65	
131.500	47.600	N	156.367	E	1.90	D	0.65	
131.542	47.678	N	156.278	E	2.00	D	0.65	
131.583	47.756	N	156.189	E	2.00	D	0.65	
131.625	47.833	N	156.100	E	2.00	D	0.65	
131.667	47.833	N	156.100	E	2.00	D	0.65	
131.708	47.833	N	156.100	E	2.00	D	0.65	
131.750	47.833	N	156.100	E	2.00	D	0.65	
131.792	47.883	N	156.056	E	2.00	D	0.65	
131.833	47.933	N	156.011	E	2.00	D	0.65	
131.875	47.983	N	155.967	E	2.00	D	0.65	
131.917	47.983	N	155.956	E	2.00	D	0.65	
131.958	47.983	N	155.944	E	2.00	D	0.65	
132.000	47.983	N	155.933	E	2.00	D	0.65	
132.042	48.078	N	155.861	E	2.00	D	0.65	
132.083	48.172	N	155.789	E	2.00	D	0.65	
132.125	48.267	N	155.717	E	2.00	D	0.65	
132.167	48.333	N	155.650	E	2.10	D	0.65	
132.208	48.400	N	155.583	E	2.10	D	0.65	
132.250	48.467	N	155.517	E	2.10	D	0.65	
132.292	48.489	N	155.517	E	2.10	D	0.65	
132.333	48.511	N	155.517	E	2.10	D	0.65	
132.375	48.533	N	155.517	E	2.00	D	0.65	
132.417	48.583	N	155.467	E	2.00	D	0.65	
132.458	48.633	N	155.417	E	1.90	D	0.65	
132.500	48.683	N	155.367	E	1.80	D	0.65	
132.542	48.728	N	155.317	E	1.60	D	0.65	
132.583	48.772	N	155.267	E	1.40	D	0.66	
132.625	48.817	N	155.217	E	1.20	D	0.66	
132.667	48.817	N	155.217	E	1.20	D	0.66	
132.708	48.817	N	155.217	E	1.20	D	0.66	
132.750	48.817	N	155.217	E	1.20	D	0.66	
132.792	48.878	N	155.144	E	1.20	D	0.66	
132.833	48.939	N	155.072	E	1.20	D	0.66	
132.875	49.000	N	155.000	E	1.20	D	0.66	

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132.917	48.950	N		155.072	E	1.20	D	0.66
132.958	48.900	N		155.144	E	1.20	D	0.66
133.000	48.850	N		155.217	E	1.20	D	0.66
133.042	48.778	N		155.306	E	1.40	D	0.66
133.083	48.706	N		155.395	E	1.60	D	0.65
133.125	48.633	N		155.483	E	1.80	D	0.65
133.167	48.606	N		155.478	E	1.90	D	0.65
133.208	48.578	N		155.472	E	2.00	D	0.65
133.250	48.550	N		155.467	E	2.00	D	0.65
133.292	48.533	N		155.522	E	2.00	D	0.65
133.333	48.517	N		155.578	E	2.00	D	0.65
133.375	48.500	N		155.633	E	2.00	D	0.65
133.417	48.383	N		155.706	E	2.10	D	0.65
133.458	48.267	N		155.778	E	2.10	D	0.65
133.500	48.150	N		155.850	E	2.10	D	0.65
133.542	48.156	N		155.872	E	2.20	D	0.64
133.583	48.161	N		155.895	E	2.20	D	0.64
133.625	48.167	N		155.917	E	2.20	D	0.64
133.667	48.167	N		155.917	E	2.20	D	0.64
133.708	48.167	N		155.917	E	2.20	D	0.64
133.750	48.167	N		155.917	E	2.10	D	0.65
133.792	48.067	N		156.117	E	2.10	D	0.65
133.833	47.967	N		156.317	E	2.10	D	0.65
133.875	47.867	N		156.517	E	2.00	D	0.65
133.917	47.800	N		156.489	E	2.10	D	0.65
133.958	47.733	N		156.461	E	2.10	D	0.65
134.000	47.667	N		156.433	E	2.10	D	0.65
134.042	47.661	N		156.389	E	2.10	D	0.65
134.083	47.656	N		156.345	E	2.10	D	0.65
134.125	47.650	N		156.300	E	2.10	D	0.65
134.167	47.672	N		156.322	E	2.20	D	0.64
134.208	47.694	N		156.345	E	2.20	D	0.64
134.250	47.717	N		156.367	E	2.20	D	0.64
134.292	47.661	N		156.395	E	2.20	D	0.64
134.333	47.606	N		156.422	E	2.20	D	0.64
134.375	47.550	N		156.450	E	2.20	D	0.64
134.417	47.450	N		156.550	E	2.20	D	0.64
134.458	47.350	N		156.650	E	2.20	D	0.64
134.500	47.250	N		156.750	E	2.10	D	0.65
134.542	47.233	N		156.783	E	2.10	D	0.65
134.583	47.217	N		156.817	E	2.10	D	0.65
134.625	47.200	N		156.850	E	2.10	D	0.65
134.667	47.200	N		156.850	E	2.00	D	0.65
134.708	47.200	N		156.850	E	1.90	D	0.65
134.750	47.200	N		156.850	E	1.80	D	0.65
134.792	47.172	N		156.872	E	1.80	D	0.65
134.833	47.144	N		156.895	E	1.80	D	0.65
134.875	47.117	N		156.917	E	1.80	D	0.65
134.917	47.100	N		156.889	E	1.80	D	0.65
134.958	47.083	N		156.861	E	1.80	D	0.65

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Date	GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag
135.000	47.067	N	156.833	E	1.80	D	0.65		
135.042	47.061	N	156.883	E	1.90	D	0.65		
135.083	47.056	N	156.933	E	2.00	D	0.65		
135.125	47.050	N	156.983	E	2.00	D	0.65		
135.167	46.978	N	157.022	E	2.20	D	0.64		
135.208	46.906	N	157.061	E	2.30	D	0.64		
135.250	46.833	N	157.100	E	2.40	D	0.64		
135.292	46.833	N	157.100	E	2.40	D	0.64		
135.333	46.833	N	157.100	E	2.40	D	0.64		
135.375	46.833	N	157.100	E	2.30	D	0.64		
135.417	46.828	N	157.100	E	2.30	D	0.64		
135.458	46.822	N	157.100	E	2.30	D	0.64		
135.500	46.817	N	157.100	E	2.20	D	0.64		
135.542	46.811	N	157.106	E	2.20	D	0.64		
135.583	46.806	N	157.111	E	2.20	D	0.64		
135.625	46.800	N	157.117	E	2.20	D	0.64		
135.667	46.800	N	157.117	E	2.20	D	0.64		
135.708	46.800	N	157.117	E	2.20	D	0.64		
135.750	46.800	N	157.117	E	2.20	D	0.64		
135.792	46.744	N	157.189	E	2.30	D	0.64		
135.833	46.689	N	157.261	E	2.30	D	0.64		
135.875	46.633	N	157.333	E	2.30	D	0.64		
135.917	46.633	N	157.356	E	2.40	D	0.64		
135.958	46.633	N	157.378	E	2.40	D	0.64		
136.000	46.633	N	157.400	E	2.40	D	0.64		
136.042	46.556	N	157.556	E	2.60	D	0.64		
136.083	46.478	N	157.711	E	2.70	D	0.64		
136.125	46.400	N	157.867	E	2.80	D	0.63		
136.167	46.406	N	157.761	E	2.80	D	0.63		
136.208	46.411	N	157.656	E	2.80	D	0.63		
136.250	46.417	N	157.550	E	2.80	D	0.63		
136.292	46.378	N	157.589	E	2.70	D	0.64		
136.333	46.339	N	157.628	E	2.60	D	0.64		
136.375	46.300	N	157.667	E	2.40	D	0.64		
136.417	46.272	N	157.700	E	2.40	D	0.64		
136.458	46.244	N	157.733	E	2.40	D	0.64		
136.500	46.217	N	157.767	E	2.30	D	0.64		
136.542	46.239	N	157.778	E	2.50	D	0.64		
136.583	46.261	N	157.789	E	2.70	D	0.64		
136.625	46.283	N	157.800	E	2.80	D	0.63		
136.667	46.256	N	157.811	E	2.70	D	0.64		
136.708	46.228	N	157.822	E	2.60	D	0.64		
136.750	46.200	N	157.833	E	2.40	D	0.64		
136.792	46.133	N	157.856	E	2.50	D	0.64		
136.833	46.067	N	157.878	E	2.60	D	0.64		
136.875	46.000	N	157.900	E	2.60	D	0.64		
136.917	46.006	N	157.894	E	2.70	D	0.64		
136.958	46.011	N	157.889	E	2.80	D	0.64		
137.000	46.017	N	157.883	E	2.80	D	0.63		
137.042	45.939	N	157.961	E	2.80	D	0.63		

SAGA II 1987									
Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag	
137.083	45.861	N	158.039	E	2.80	D	0.63		
137.125	45.783	N	158.117	E	2.80	D	0.63		
137.167	45.772	N	158.122	E	2.90	D	0.63		
137.208	45.761	N	158.128	E	3.00	D	0.63		
137.250	45.750	N	158.133	E	3.00	D	0.63		
137.292	45.717	N	158.172	E	3.00	D	0.63		
137.333	45.683	N	158.211	E	2.90	D	0.63		
137.375	45.650	N	158.250	E	2.80	D	0.63		
137.417	45.594	N	158.294	E	2.90	D	0.63		
137.458	45.539	N	158.339	E	3.00	D	0.63		
137.500	45.483	N	158.383	E	3.00	D	0.63		
137.542	45.489	N	158.361	E	3.00	D	0.63		
137.583	45.494	N	158.339	E	2.90	D	0.63		
137.625	45.500	N	158.317	E	2.80	D	0.63		
137.667	45.500	N	158.317	E	2.90	D	0.63		
137.708	45.500	N	158.317	E	2.90	D	0.63		
137.750	45.500	N	158.317	E	2.90	D	0.63		
137.792	45.528	N	158.300	E	3.00	D	0.63		
137.833	45.556	N	158.283	E	3.00	D	0.63		
137.875	45.583	N	158.267	E	3.00	D	0.63		
137.917	45.589	N	158.378	E	3.00	D	0.63		
137.958	45.594	N	158.489	E	3.00	D	0.63		
138.000	45.600	N	158.600	E	3.00	D	0.63		
138.042	45.606	N	158.511	E	3.00	D	0.63		
138.083	45.611	N	158.422	E	3.00	D	0.63		
138.125	45.617	N	158.333	E	3.00	D	0.63		
138.167	45.694	N	158.333	E	3.00	D	0.63		
138.208	45.772	N	158.333	E	3.00	D	0.63		
138.250	45.850	N	158.333	E	3.00	D	0.63		
138.292	45.744	N	158.333	E	3.10	D	0.63		
138.333	45.639	N	158.333	E	3.10	D	0.63		
138.375	45.533	N	158.333	E	3.10	D	0.63		
138.417	45.433	N	158.433	E	3.10	D	0.63		
138.458	45.333	N	158.533	E	3.10	D	0.63		
138.500	45.233	N	158.633	E	3.10	D	0.63		
138.542	45.250	N	158.633	E	3.10	D	0.63		
138.583	45.267	N	158.633	E	3.10	D	0.63		
138.625	45.283	N	158.633	E	3.10	D	0.63		
138.667	45.283	N	158.633	E	3.10	D	0.63		
138.708	45.283	N	158.633	E	3.10	D	0.63		
138.750	45.283	N	158.633	E	3.00	D	0.63		
138.792	45.328	N	158.672	E	2.90	D	0.63		
138.833	45.372	N	158.711	E	2.80	D	0.63		
138.875	45.417	N	158.750	E	2.70	D	0.64		
138.917	45.228	N	158.806	E	3.10	D	0.63		
138.958	45.039	N	158.861	E	3.50	D	0.62		
139.000	44.850	N	158.917	E	3.80	D	0.62		
139.042	44.561	N	159.000	E	4.20	D	0.61		
139.083	44.272	N	159.083	E	4.50	D	0.61		
139.125	43.983	N	159.167	E	4.80	D	0.60		

SAGA II 1987									
Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag	
139.167	43.361	N	159.250	E	5.70	D	0.59		
139.208	42.739	N	159.333	E	6.60	D	0.57		
139.250	42.117	N	159.417	E	7.50	D	0.56		
139.292	42.217	N	159.472	E	7.10	D	0.57		
139.333	42.317	N	159.528	E	6.70	D	0.57		
139.375	42.417	N	159.583	E	6.40	D	0.58		
139.417	42.122	N	159.628	E	6.50	D	0.58		
139.458	41.828	N	159.672	E	6.70	D	0.57		
139.500	41.533	N	159.717	E	6.90	D	0.57		
139.542	41.272	N	159.744	E	7.70	D	0.56		
139.583	41.011	N	159.772	E	8.50	D	0.54		
139.625	40.750	N	159.800	E	9.40	D	0.53		
139.667	40.578	N	159.839	E	10.20	D	0.52		
139.708	40.406	N	159.878	E	10.90	D	0.51		
139.750	40.233	N	159.917	E	11.70	D	0.49		
139.792	40.094	N	159.945	E	12.10	D	0.49		
139.833	39.956	N	159.972	E	12.40	D	0.48		
139.875	39.817	N	160.000	E	12.80	D	0.48		
139.917	39.544	N	160.000	E	12.90	D	0.47		
139.958	39.272	N	160.000	E	13.10	D	0.47		
140.000	39.000	N	160.000	E	13.20	D	0.47		
140.042	38.706	N	160.000	E	13.40	D	0.47		
140.083	38.411	N	160.000	E	13.70	D	0.46		
140.125	38.117	N	160.000	E	13.90	D	0.46		
140.167	37.867	N	160.000	E	14.40	D	0.45		
140.208	37.617	N	160.000	E	14.90	D	0.44		
140.250	37.367	N	160.000	E	15.30	D	0.44		
140.292	37.222	N	160.006	E	15.30	D	0.44		
140.333	37.078	N	160.011	E	15.30	D	0.44		
140.375	36.933	N	160.017	E	15.30	D	0.44		
140.417	36.656	N	160.022	E	15.40	D	0.44		
140.458	36.378	N	160.028	E	15.50	D	0.43		
140.500	36.100	N	160.033	E	15.60	D	0.43		
140.542	35.928	N	160.022	E	16.40	D	0.42		
140.583	35.756	N	160.011	E	17.20	D	0.41		
140.625	35.583	N	160.000	E	18.00	D	0.40		
140.667	35.367	N	160.000	E	17.70	D	0.40		
140.708	35.150	N	160.000	E	17.50	D	0.40		
140.750	34.933	N	160.000	E	17.30	D	0.40		
140.792	34.833	N	160.033	E	17.20	D	0.41		
140.833	34.733	N	160.067	E	17.10	D	0.41		
140.875	34.633	N	160.100	E	16.90	D	0.41		
140.917	34.356	N	160.100	E	17.70	D	0.40		
140.958	34.078	N	160.100	E	18.60	D	0.39		
141.000	33.800	N	160.100	E	19.40	D	0.37		
141.042	33.611	N	160.122	E	19.30	D	0.37		
141.083	33.422	N	160.145	E	19.20	D	0.38		
141.125	33.233	N	160.167	E	19.20	D	0.38		
141.167	32.944	N	160.111	E	19.50	D	0.37		
141.208	32.656	N	160.056	E	19.80	D	0.37		

SAGA II 1987								
Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag
141.250	32.367	N	160.000	E	20.20	D	0.36	
141.292	32.256	N	160.006	E	20.20	D	0.36	
141.333	32.144	N	160.011	E	20.20	D	0.36	
141.375	32.033	N	160.017	E	20.20	D	0.36	
141.417	31.767	N	160.017	E	20.20	D	0.36	
141.458	31.500	N	160.017	E	20.20	D	0.36	
141.500	31.233	N	160.017	E	20.20	D	0.36	
141.542	31.061	N	160.022	E	20.50	D	0.36	
141.583	30.889	N	160.028	E	20.80	D	0.35	
141.625	30.717	N	160.033	E	21.20	D	0.34	
141.667	30.433	N	160.022	E	21.20	D	0.34	
141.708	30.150	N	160.011	E	21.20	D	0.34	
141.750	29.867	N	160.000	E	21.20	D	0.34	
141.792	29.772	N	160.000	E	21.10	D	0.35	
141.833	29.678	N	160.000	E	21.00	D	0.35	
141.875	29.583	N	160.000	E	21.00	D	0.35	
141.917	29.300	N	160.000	E	21.20	D	0.34	
141.958	29.017	N	160.000	E	21.50	D	0.34	
142.000	28.733	N	160.000	E	21.80	D	0.33	
142.042	28.539	N	159.983	E	21.80	D	0.33	
142.083	28.344	N	159.967	E	21.80	D	0.33	
142.125	28.150	N	159.950	E	21.80	D	0.33	
142.167	27.856	N	159.967	E	21.80	D	0.33	
142.208	27.561	N	159.983	E	21.90	D	0.33	
142.250	27.267	N	160.000	E	22.00	D	0.33	
142.292	27.144	N	160.000	E	22.00	D	0.33	
142.333	27.022	N	160.000	E	22.00	D	0.33	
142.375	26.900	N	160.000	E	22.00	D	0.33	
142.417	26.622	N	160.006	E	21.80	D	0.33	
142.458	26.344	N	160.011	E	21.70	D	0.34	
142.500	26.067	N	160.017	E	21.60	D	0.34	
142.542	25.883	N	160.011	E	22.20	D	0.33	
142.583	25.700	N	160.006	E	22.80	D	0.32	
142.625	25.517	N	160.000	E	23.40	D	0.31	
142.667	25.239	N	159.989	E	23.50	D	0.31	
142.708	24.961	N	159.978	E	23.70	D	0.31	
142.750	24.683	N	159.967	E	23.80	D	0.30	
142.792	24.572	N	159.978	E	23.90	D	0.30	
142.833	24.461	N	159.989	E	24.10	D	0.30	
142.875	24.350	N	160.000	E	24.20	D	0.30	
142.917	24.078	N	160.006	E	24.60	D	0.29	
142.958	23.806	N	160.011	E	25.10	D	0.28	
143.000	23.533	N	160.017	E	25.50	D	0.28	
143.042	23.339	N	160.000	E	25.60	D	0.27	
143.083	23.144	N	159.983	E	25.80	D	0.27	
143.125	22.950	N	159.967	E	25.90	D	0.27	
143.167	22.656	N	159.967	E	25.70	D	0.27	
143.208	22.361	N	159.967	E	25.60	D	0.27	
143.250	22.067	N	159.967	E	25.40	D	0.28	
143.292	21.956	N	159.978	E	25.70	D	0.27	

SAGA II 1987									
Date GMT	Latitude	Flag	Longitude	Flag	Tes	Flag	Warming	Flag	
143.333	21.844	N	159.989	E	26.10	D	0.27		
143.375	21.733	N	160.000	E	26.40	D	0.26		
143.417	21.478	N	160.006	E	26.40	D	0.26		
143.458	21.222	N	160.011	E	26.40	D	0.26		
143.500	20.967	N	160.017	E	26.30	D	0.26		
143.542	20.789	N	160.017	E	26.30	D	0.26		
143.583	20.611	N	160.017	E	26.30	D	0.26		
143.625	20.433	N	160.017	E	26.30	D	0.26		
143.667	20.144	N	160.011	E	26.50	D	0.26		
143.708	19.856	N	160.006	E	26.70	D	0.26		
143.750	19.567	N	160.000	E	26.80	D	0.26		
143.792	19.450	N	160.000	E	26.80	D	0.26		
143.833	19.333	N	160.000	E	26.80	D	0.26		
143.875	19.217	N	160.000	E	26.80	D	0.26		
143.917	18.967	N	160.006	E	26.90	D	0.25		
143.958	18.717	N	160.011	E	27.00	D	0.25		
144.000	18.467	N	160.017	E	27.00	D	0.25		
144.042	18.267	N	160.017	E	26.90	D	0.25		
144.083	18.067	N	160.017	E	26.80	D	0.26		
144.125	17.867	N	160.017	E	26.70	D	0.26		
144.167	17.578	N	160.006	E	26.70	D	0.26		
144.208	17.289	N	159.994	E	26.70	D	0.26		
144.250	17.000	N	159.983	E	26.70	D	0.26		
144.292	16.883	N	159.989	E	26.70	D	0.26		
144.333	16.767	N	159.994	E	26.60	D	0.26		
144.375	16.650	N	160.000	E	26.50	D	0.26		
144.417	16.406	N	160.006	E	26.50	D	0.26		
144.458	16.161	N	160.011	E	26.40	D	0.26		
144.500	15.917	N	160.017	E	26.30	D	0.26		
144.542	15.739	N	160.011	E	26.30	D	0.26		
144.583	15.561	N	160.006	E	26.30	D	0.26		
144.625	15.383	N	160.000	E	26.30	D	0.26		
144.667	15.122	N	160.000	E	26.30	D	0.26		
144.708	14.861	N	160.000	E	26.30	D	0.26		
144.750	14.600	N	160.000	E	26.30	D	0.26		
144.792	14.478	N	160.000	E	26.30	D	0.26		
144.833	14.356	N	160.000	E	26.30	D	0.26		
144.875	14.233	N	160.000	E	26.20	D	0.26		
144.917	13.972	N	160.000	E	26.80	D	0.26		
144.958	13.711	N	160.000	E	27.30	D	0.25		
145.000	13.450	N	160.000	E	27.80	D	0.24		
145.042	13.250	N	160.000	E	27.80	D	0.24		
145.083	13.050	N	160.000	E	27.80	D	0.24		
145.125	12.850	N	160.000	E	27.70	D	0.24		
145.167	12.583	N	160.000	E	27.70	D	0.24		
145.208	12.317	N	160.000	E	27.70	D	0.24		
145.250	12.050	N	160.000	E	27.60	D	0.24		
145.292	11.961	N	160.000	E	27.60	D	0.24		
145.333	11.872	N	160.000	E	27.60	D	0.24		
145.375	11.783	N	160.000	E	27.60	D	0.24		

SAGA II 1987									
Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag	
145.417	11.522	N	160.006	E	27.80	D	0.24		
145.458	11.261	N	160.011	E	28.00	D	0.24		
145.500	11.000	N	160.017	E	28.20	D	0.23		
145.542	10.917	N	160.017	E	28.10	D	0.23		
145.583	10.700	N	160.000	E	28.10	D	0.23		
145.625	10.467	N	160.000	E	28.10	D	0.23		
145.667	10.167	N	160.000	E	28.00	D	0.24		
145.708	9.933	N	160.000	E	28.30	D	0.23		
145.750	9.650	N	160.000	E	28.30	D	0.23		
145.792	9.617	N	160.000	E	28.70	D	0.22		
145.833	9.617	N	160.000	E	28.00	D	0.24		
145.875	9.633	N	160.000	E	28.80	D	0.22		
145.917	9.633	N	160.000	E	28.80	D	0.22		
145.958	9.633	N	160.000	E	28.80	D	0.22		
146.000	9.700	N	160.000	E	28.80	D	0.22		
146.042	9.650	N	159.900	E	28.80	D	0.22		
146.083	9.667	N	159.883	E	28.90	D	0.22		
146.125	9.667	N	159.867	E	28.90	D	0.22		
146.167	9.667	N	159.850	E	28.90	D	0.22		
146.208	9.667	N	159.850	E	28.90	D	0.22		
146.250	9.667	N	159.850	E	28.90	D	0.22		
146.292	9.667	N	159.850	E	28.90	D	0.22		
146.333	9.533	N	160.000	E	28.80	D	0.22		
146.375	9.350	N	160.000	E	28.70	D	0.22		
146.417	9.083	N	160.000	E	28.70	D	0.22		
146.458	8.833	N	160.000	E	28.80	D	0.22		
146.500	8.650	N	160.000	E	28.80	D	0.22		
146.542	8.500	N	160.000	E	28.80	D	0.22		
146.583	8.283	N	160.000	E	28.80	D	0.22		
146.625	8.050	N	160.000	E	29.00	D	0.22		
146.667	7.833	N	160.000	E	29.10	D	0.22		
146.708	7.450	N	160.000	E	29.20	D	0.22		
146.750	7.233	N	160.000	E	29.30	D	0.22		
146.792	7.217	N	160.000	E	29.30	D	0.22		
146.833	7.217	N	160.000	E	29.40	D	0.21		
146.875	7.017	N	160.017	E	29.40	D	0.21		
146.917	6.750	N	160.000	E	29.40	D	0.21		
146.958	6.517	N	159.917	E	29.40	D	0.21		
147.000	6.300	N	160.017	E	29.50	D	0.21		
147.042	6.133	N	160.017	E	29.50	D	0.21		
147.083	5.983	N	160.000	E	29.50	D	0.21		
147.125	5.583	N	160.000	E	29.40	D	0.21		
147.167	5.400	N	160.000	E	29.30	D	0.22		
147.208	5.067	N	160.000	E	29.20	D	0.22		
147.250	4.867	N	160.000	E	29.20	D	0.22		
147.292	4.833	N	160.000	E	29.20	D	0.22		
147.333	4.833	N	160.000	E	29.20	D	0.22		
147.375	4.683	N	160.000	E	29.20	D	0.22		
147.417	4.383	N	160.000	E	29.40	D	0.21		
147.458	4.133	N	160.000	E	29.40	D	0.21		

SAGA II 1987									
Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag	
147.500	3.883	N	160.000	E	29.40	D	0.21		
147.542	3.767	N	160.000	E	29.30	D	0.22		
147.583	3.550	N	160.000	E	29.30	D	0.22		
147.625	3.300	N	160.000	E	29.30	D	0.22		
147.667	3.050	N	160.000	E	29.30	D	0.22		
147.708	2.767	N	160.000	E	29.30	D	0.22		
147.750	2.517	N	160.000	E	29.50	D	0.21		
147.792	2.383	N	160.000	E	29.70	D	0.21		
147.833	2.367	N	160.017	E	29.60	D	0.21		
147.875	2.167	N	160.033	E	29.40	D	0.21		
147.917	1.900	N	160.033	E	29.40	D	0.21		
147.958	1.667	N	160.033	E	29.40	D	0.21		
148.000	1.417	N	160.033	E	29.40	D	0.21		
148.042	1.367	N	160.033	E	29.50	D	0.21		
148.083	1.217	N	160.017	E	29.50	D	0.21		
148.125	0.933	N	160.000	E	30.10	D	0.20		
148.167	0.917	N	160.000	E	29.80	D	0.21		
148.208	0.633	N	160.000	E	29.80	D	0.21		
148.250	0.433	N	160.000	E	29.80	D	0.21		
148.292	0.400	N	160.000	E	29.20	D	0.22		
148.333	0.400	N	160.000	E	29.20	D	0.22		
148.375	0.117	N	160.000	E	29.40	D	0.21		
148.417	0.000		160.000	E	29.40	D	0.21		
148.458	0.000		160.000	E	29.30	D	0.22		
148.500	0.000		160.000	E	29.30	D	0.22		
148.542	0.000		160.000	E	29.30	D	0.22		
148.583	0.067	S	160.017	E	29.20	D	0.22		
148.625	0.300	S	160.017	E	29.20	D	0.22		
148.667	0.550	S	160.033	E	29.10	D	0.22		
148.708	0.767	S	160.000	E	29.10	D	0.22		
148.750	1.117	S	160.000	E	29.20	D	0.22		
148.792	1.333	S	160.000	E	29.30	D	0.22		
148.833	1.383	S	160.000	E	29.20	D	0.22		
148.875	1.500	S	160.000	E	28.80	D	0.22		
148.917	1.700	S	160.000	E	28.60	D	0.23		
148.958	1.983	S	160.000	E	28.60	D	0.23		
149.000	2.017	S	160.000	E	28.70	D	0.22		
149.042	2.067	S	160.000	E	28.80	D	0.22		
149.083	2.317	S	160.000	E	28.70	D	0.22		
149.125	2.483	S	160.000	E	28.80	D	0.22		
149.167	2.533	S	160.000	E	28.60	D	0.23		
149.208	2.550	S	160.000	E	28.60	D	0.23		
149.250	3.000	S	160.000	E	28.70	D	0.22		
149.292	3.000	S	160.000	E	28.60	D	0.23		
149.333	3.200	S	160.000	E	28.70	D	0.22		
149.375	3.383	S	160.000	E	29.00	D	0.22		
149.417	3.683	S	160.000	E	28.80	D	0.22		
149.458	3.933	S	160.000	E	28.80	D	0.22		
149.500	4.150	S	160.000	E	28.70	D	0.22		
149.542	4.233	S	160.000	E	28.70	D	0.22		

SAGA II 1987								
Date GMT	Latitude	Flag	Longitude	Flag	Tes	Flag	Warming	Flag
149.583	4.467	S	160.000	E	28.60	D	0.23	
149.625	4.700	S	160.000	E	28.50	D	0.23	
149.667	4.933	S	160.000	E	28.50	D	0.23	
149.708	5.217	S	160.000	E	28.70	D	0.22	
149.750	5.450	S	160.000	E	28.60	D	0.23	
149.792	5.500	S	160.000	E	28.60	D	0.23	
149.833	5.533	S	160.133	E	28.60	D	0.23	
149.875	5.633	S	160.333	E	28.20	D	0.23	
149.917	5.700	S	160.533	E	28.20	D	0.23	
149.958	5.833	S	160.800	E	28.40	D	0.23	
150.000	5.933	S	160.983	E	28.70	D	0.22	
150.042	5.950	S	161.117	E	28.60	D	0.23	
150.083	6.117	S	161.317	E	28.50	D	0.23	
150.125	6.150	S	161.583	E	28.60	D	0.23	
150.167	6.250	S	161.683	E	28.70	D	0.22	
150.208	6.383	S	162.050	E	28.80	D	0.22	
150.250	6.467	S	162.217	E	28.90	D	0.22	
150.292	6.467	S	162.217	E	28.90	D	0.22	
150.333	6.517	S	162.383	E	29.00	D	0.22	
150.375	6.633	S	162.600	E	28.90	D	0.22	
150.417	6.767	S	162.867	E	28.80	D	0.22	
150.458	6.867	S	163.100	E	28.80	D	0.22	
150.500	6.967	S	163.283	E	28.80	D	0.22	
150.542	7.000	S	163.367	E	28.80	D	0.22	
150.583	7.100	S	163.583	E	28.80	D	0.22	
150.625	7.200	S	163.817	E	28.70	D	0.22	
150.667	7.317	S	164.017	E	28.70	D	0.22	
150.708	7.467	S	164.300	E	28.70	D	0.22	
150.750	7.533	S	164.467	E	28.80	D	0.22	
150.792	7.567	S	164.533	E	28.80	D	0.22	
150.833	7.617	S	164.650	E	28.80	D	0.22	
150.875	7.700	S	164.883	E	28.80	D	0.22	
150.917	7.800	S	165.117	E	28.80	D	0.22	
150.958	7.933	S	165.400	E	28.70	D	0.22	
151.000	8.017	S	165.600	E	28.80	D	0.22	
151.042	8.067	S	165.767	E	29.20	D	0.22	
151.083	8.133	S	165.933	E	29.20	D	0.22	
151.125	8.250	S	166.200	E	29.20	D	0.22	
151.167	8.333	S	166.433	E	29.20	D	0.22	
151.208	8.450	S	166.733	E	28.80	D	0.22	
151.250	8.550	S	166.933	E	28.80	D	0.22	
151.292	8.550	S	166.933	E	28.80	D	0.22	
151.333	8.583	S	167.100	E	28.80	D	0.22	
151.375	8.683	S	167.300	E	27.60	D	0.24	
151.417	8.800	S	167.533	E	27.20	D	0.25	
151.458	8.917	S	167.733	E	27.40	D	0.25	
151.500	9.000	S	167.950	E	27.40	D	0.25	
151.542	9.033	S	168.033	E	28.40	D	0.23	
151.583	9.117	S	168.233	E	28.30	D	0.23	
151.625	9.250	S	168.483	E	28.30	D	0.23	

SAGA II 1987									
Date	GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag
151.667		9.350	S	168.700	E	28.00	D	0.24	
151.708		9.467	S	168.917	E	28.00	D	0.24	
151.750		9.567	S	169.100	E	28.10	D	0.23	
151.792		9.567	S	169.100	E	28.00	D	0.24	
151.833		9.617	S	169.250	E	28.00	D	0.24	
151.875		9.733	S	169.467	E	28.00	D	0.24	
151.917		9.833	S	169.667	E	27.90	D	0.24	
151.958		9.933	S	169.900	E	28.00	D	0.24	
152.000		10.000	S	170.017	E	28.00	D	0.24	
152.042		10.228	S	170.017	E	28.00	D	0.24	
152.083		10.456	S	170.017	E	28.00	D	0.24	
152.125		10.683	S	170.017	E	27.90	D	0.24	
152.167		10.933	S	170.028	E	27.90	D	0.24	
152.208		11.183	S	170.039	E	27.90	D	0.24	
152.250		11.433	S	170.050	E	27.90	D	0.24	
152.292		11.511	S	170.033	E	27.90	D	0.24	
152.333		11.589	S	170.017	E	27.90	D	0.24	
152.375		11.667	S	170.000	E	27.90	D	0.24	
152.417		11.911	S	170.006	E	27.80	D	0.24	
152.458		12.156	S	170.011	E	27.90	D	0.24	
152.500		12.400	S	170.017	E	27.80	D	0.24	
152.542		12.606	S	170.017	E	27.80	D	0.24	
152.583		12.811	S	170.017	E	27.80	D	0.24	
152.625		13.017	S	170.017	E	27.70	D	0.24	
152.667		13.256	S	170.011	E	27.60	D	0.24	
152.708		13.494	S	170.006	E	27.40	D	0.25	
152.750		13.733	S	170.000	E	27.20	D	0.25	
152.792		13.750	S	170.000	E	27.30	D	0.25	
152.833		13.767	S	170.000	E	27.40	D	0.25	
152.875		13.783	S	170.000	E	27.50	D	0.24	
152.917		13.772	S	169.994	E	27.60	D	0.24	
152.958		13.761	S	169.989	E	27.60	D	0.24	
153.000		13.750	S	169.983	E	27.60	D	0.24	
153.042		13.989	S	169.983	E	27.60	D	0.24	
153.083		14.228	S	169.983	E	27.50	D	0.24	
153.125		14.467	S	169.983	E	27.40	D	0.25	
153.167		14.728	S	169.989	E	27.40	D	0.25	
153.208		14.989	S	169.994	E	27.30	D	0.25	
153.250		15.250	S	170.000	E	27.20	D	0.25	
153.292		15.278	S	169.994	E	27.20	D	0.25	
153.333		15.306	S	169.989	E	27.20	D	0.25	
153.375		15.333	S	169.983	E	27.20	D	0.25	
153.417		15.589	S	169.989	E	27.20	D	0.25	
153.458		15.844	S	169.994	E	27.20	D	0.25	
153.500		16.100	S	170.000	E	27.20	D	0.25	
153.542		16.300	S	170.000	E	27.20	D	0.25	
153.583		16.500	S	170.000	E	27.20	D	0.25	
153.625		16.700	S	170.000	E	27.10	D	0.25	
153.667		16.944	S	170.000	E	27.00	D	0.25	
153.708		17.189	S	170.000	E	26.90	D	0.25	

SAGA II 1987									
Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag	
153.750	17.433	S	170.000	E	26.80	D	0.26		
153.792	17.456	S	170.000	E	26.80	D	0.26		
153.833	17.478	S	170.000	E	26.80	D	0.26		
153.875	17.500	S	170.000	E	26.80	D	0.26		
153.917	17.489	S	170.000	E	27.00	D	0.25		
153.958	17.478	S	170.000	E	27.10	D	0.25		
154.000	17.467	S	170.000	E	27.20	D	0.25		
154.042	17.683	S	170.000	E	27.20	D	0.25		
154.083	17.900	S	170.000	E	27.10	D	0.25		
154.125	18.117	S	170.000	E	27.00	D	0.25		
154.167	18.272	S	170.000	E	26.80	D	0.26		
154.208	18.428	S	170.000	E	26.50	D	0.26		
154.250	18.583	S	170.000	E	26.20	D	0.26		
154.292	18.683	S	170.011	E	26.00	D	0.27		
154.333	18.783	S	170.022	E	25.80	D	0.27		
154.375	18.883	S	170.033	E	25.60	D	0.27		
154.417	19.117	S	170.022	E	25.60	D	0.27		
154.458	19.350	S	170.011	E	25.60	D	0.27		
154.500	19.583	S	170.000	E	25.60	D	0.27		
154.542	19.722	S	170.000	E	25.50	D	0.28		
154.583	19.861	S	170.000	E	25.30	D	0.28		
154.625	20.000	S	170.000	E	25.20	D	0.28		
154.667	20.228	S	170.000	E	25.50	D	0.28		
154.708	20.456	S	170.000	E	25.70	D	0.27		
154.750	20.683	S	170.000	E	26.00	D	0.27		
154.792	20.789	S	169.972	E	25.70	D	0.27		
154.833	20.894	S	169.945	E	25.40	D	0.28		
154.875	21.000	S	169.917	E	25.10	D	0.28		
154.917	21.000	S	169.895	E	25.10	D	0.28		
154.958	21.000	S	169.872	E	25.10	D	0.28		
155.000	21.000	S	169.850	E	25.10	D	0.28		
155.042	21.139	S	169.867	E	25.10	D	0.28		
155.083	21.278	S	169.883	E	25.00	D	0.28		
155.125	21.417	S	169.900	E	25.00	D	0.28		
155.167	21.583	S	169.933	E	24.70	D	0.29		
155.208	21.750	S	169.967	E	24.50	D	0.29		
155.250	21.917	S	170.000	E	24.20	D	0.30		
155.292	22.039	S	170.000	E	24.20	D	0.30		
155.333	22.161	S	170.000	E	24.20	D	0.30		
155.375	22.283	S	170.000	E	24.20	D	0.30		
155.417	22.544	S	170.006	E	24.10	D	0.30		
155.458	22.806	S	170.011	E	24.10	D	0.30		
155.500	23.067	S	170.017	E	24.00	D	0.30		
155.542	23.261	S	170.017	E	24.00	D	0.30		
155.583	23.456	S	170.017	E	23.90	D	0.30		
155.625	23.650	S	170.017	E	23.90	D	0.30		
155.667	23.889	S	170.011	E	23.70	D	0.30		
155.708	24.128	S	170.006	E	23.60	D	0.31		
155.750	24.367	S	170.000	E	23.40	D	0.31		
155.792	24.461	S	170.000	E	23.50	D	0.31		

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Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag
155.833	24.556	S	170.000	E	23.50	D	0.31	
155.875	24.650	S	170.000	E	23.60	D	0.31	
155.917	24.878	S	170.000	E	23.20	D	0.31	
155.958	25.106	S	170.000	E	22.80	D	0.32	
156.000	25.333	S	170.000	E	22.40	D	0.33	
156.042	25.539	S	170.000	E	22.50	D	0.32	
156.083	25.744	S	170.000	E	22.70	D	0.32	
156.125	25.950	S	170.000	E	22.80	D	0.32	
156.167	26.117	S	170.000	E	22.50	D	0.32	
156.208	26.283	S	170.000	E	22.20	D	0.33	
156.250	26.450	S	170.000	E	21.90	D	0.33	
156.292	26.494	S	170.006	E	21.90	D	0.33	
156.333	26.539	S	170.011	E	21.90	D	0.33	
156.375	26.583	S	170.017	E	21.90	D	0.33	
156.417	26.833	S	170.011	E	21.80	D	0.33	
156.458	27.083	S	170.006	E	21.80	D	0.33	
156.500	27.333	S	170.000	E	21.80	D	0.33	
156.542	27.500	S	170.000	E	21.70	D	0.34	
156.583	27.667	S	170.000	E	21.70	D	0.34	
156.625	27.833	S	170.000	E	21.70	D	0.34	
156.667	28.083	S	170.000	E	21.20	D	0.34	
156.708	28.333	S	170.000	E	20.80	D	0.35	
156.750	28.583	S	170.000	E	20.40	D	0.36	
156.792	28.683	S	170.006	E	20.40	D	0.36	
156.833	28.783	S	170.011	E	20.40	D	0.36	
156.875	28.883	S	170.017	E	20.40	D	0.36	
156.917	29.039	S	170.011	E	20.50	D	0.36	
156.958	29.194	S	170.006	E	20.60	D	0.35	
157.000	29.350	S	170.000	E	20.70	D	0.35	
157.042	29.567	S	170.000	E	20.60	D	0.35	
157.083	29.783	S	170.000	E	20.50	D	0.36	
157.125	30.000	S	170.000	E	20.40	D	0.36	
157.167	30.094	S	170.000	E	20.40	D	0.36	
157.208	30.189	S	170.000	E	20.40	D	0.36	
157.250	30.283	S	170.000	E	20.40	D	0.36	
157.292	30.522	S	170.006	E	20.40	D	0.36	
157.333	30.761	S	170.011	E	20.40	D	0.36	
157.375	31.000	S	170.017	E	20.40	D	0.36	
157.417	31.244	S	170.022	E	20.20	D	0.36	
157.458	31.489	S	170.028	E	20.00	D	0.36	
157.500	31.733	S	170.033	E	19.90	D	0.37	
157.542	32.011	S	170.067	E	19.80	D	0.37	
157.583	32.289	S	170.100	E	19.70	D	0.37	
157.625	32.567	S	170.133	E	19.60	D	0.37	
157.667	32.811	S	170.089	E	19.00	D	0.38	
157.708	33.056	S	170.044	E	18.40	D	0.39	
157.750	33.300	S	170.000	E	17.70	D	0.40	
157.792	33.556	S	170.006	E	17.60	D	0.40	
157.833	33.811	S	170.011	E	17.50	D	0.40	
157.875	34.067	S	170.017	E	17.40	D	0.40	

SAGA II 1987								
Date GMT	Latitude	Flag	Longitude	Flag	Tee	Flag	Warming	Flag
157.917	34.317	S	170.011	E	17.20	D	0.41	
157.958	34.567	S	170.006	E	17.00	D	0.41	
158.000	34.817	S	170.000	E	16.80	D	0.41	
158.042	35.061	S	170.017	E	16.80	D	0.41	
158.083	35.306	S	170.033	E	16.80	D	0.41	
158.125	35.550	S	170.050	E	16.70	D	0.41	
158.167	36.000	S	170.311	E	16.70	D	0.41	
158.208	36.450	S	170.572	E	16.70	D	0.41	
158.250	36.900	S	170.833	E	16.70	D	0.41	
158.292	37.144	S	171.000	E	16.60	D	0.42	
158.333	37.389	S	171.167	E	16.40	D	0.42	
158.375	37.633	S	171.333	E	16.20	D	0.42	
158.417	37.633	S	171.444	E	16.20	D	0.42	
158.458	37.633	S	171.556	E	16.20	D	0.42	
158.500	37.633	S	171.667	E	16.20	D	0.42	
158.542	37.878	S	171.872	E	16.10	D	0.42	
158.583	38.122	S	172.078	E	16.00	D	0.43	
158.625	38.367	S	172.283	E	15.90	D	0.43	
158.667	38.594	S	172.350	E	15.90	D	0.43	
158.708	38.822	S	172.417	E	15.80	D	0.43	
158.750	39.050	S	172.483	E	15.70	D	0.43	
158.792	39.289	S	172.583	E	15.40	D	0.44	
158.833	39.528	S	172.683	E	15.10	D	0.44	
158.875	39.767	S	172.783	E	14.80	D	0.44	
158.917	39.950	S	173.044	E	14.70	D	0.45	
158.958	40.133	S	173.306	E	14.50	D	0.45	
159.000	40.317	S	173.567	E	14.30	D	0.45	
159.042	40.489	S	173.850	E	14.30	D	0.45	
159.083	40.661	S	174.133	E	14.20	D	0.45	
159.125	40.833	S	174.417	E	14.10	D	0.46	
159.167	41.044	S	174.467	E	13.80	D	0.46	
159.208	41.256	S	174.517	E	13.40	D	0.47	
159.250	41.467	S	174.567	E	13.00	D	0.47	
163.500	40.667	S	173.817	E	14.10	D	0.46	
163.542	40.539	S	173.428	E	14.20	D	0.45	
163.583	40.411	S	173.039	E	14.30	D	0.45	
163.625	40.283	S	172.650	E	14.30	D	0.45	
163.667	40.261	S	172.350	E	14.40	D	0.45	
163.708	40.239	S	172.050	E	14.50	D	0.45	
163.750	40.217	S	171.750	E	14.60	D	0.45	
163.792	40.261	S	171.500	E	14.70	D	0.45	
163.833	40.306	S	171.250	E	14.70	D	0.45	
163.875	40.350	S	171.000	E	14.70	D	0.45	
163.917	40.272	S	170.661	E	14.70	D	0.45	
163.958	40.194	S	170.322	E	14.60	D	0.45	
164.000	40.117	S	169.983	E	14.50	D	0.45	
164.042	40.072	S	169.595	E	14.60	D	0.45	
164.083	40.028	S	169.206	E	14.70	D	0.45	
164.125	39.983	S	168.817	E	14.80	D	0.44	

SAGA II 1987									
Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag	
164.167	39.983	S	168.495	E	14.60	D	0.45		
164.208	39.983	S	168.172	E	14.40	D	0.45		
164.250	39.983	S	167.850	E	14.20	D	0.45		
164.292	39.994	S	167.672	E	14.50	D	0.45		
164.333	40.006	S	167.494	E	14.80	D	0.44		
164.375	40.017	S	167.317	E	15.10	D	0.44		
164.417	40.017	S	167.000	E	14.80	D	0.44		
164.458	40.017	S	166.683	E	14.50	D	0.45		
164.500	40.017	S	166.367	E	14.20	D	0.45		
164.542	40.011	S	166.106	E	14.20	D	0.45		
164.583	40.006	S	165.844	E	14.20	D	0.46		
164.625	40.000	S	165.583	E	14.10	D	0.46		
164.667	40.000	S	165.283	E	14.30	D	0.45		
164.708	40.000	S	164.983	E	14.40	D	0.45		
164.750	40.000	S	164.683	E	14.50	D	0.45		
164.792	40.000	S	165.095	E	14.70	D	0.45		
164.833	40.000	S	165.506	E	14.80	D	0.45		
164.875	40.000	S	165.917	E	14.90	D	0.44		
164.917	40.000	S	164.945	E	15.00	D	0.44		
164.958	40.000	S	163.972	E	15.10	D	0.44		
165.000	40.000	S	163.000	E	15.10	D	0.44		
165.042	40.000	S	163.000	E	15.10	D	0.44		
165.083	40.000	S	163.000	E	15.00	D	0.44		
165.125	40.000	S	163.000	E	14.90	D	0.44		
165.167	40.006	S	162.889	E	14.90	D	0.44		
165.208	40.011	S	162.778	E	14.90	D	0.44		
165.250	40.017	S	162.667	E	14.90	D	0.44		
165.292	40.011	S	162.367	E	14.90	D	0.44		
165.333	40.006	S	162.067	E	14.90	D	0.44		
165.375	40.000	S	161.767	E	14.80	D	0.44		
165.417	39.944	S	161.528	E	14.80	D	0.45		
165.458	39.889	S	161.289	E	14.80	D	0.45		
165.500	39.833	S	161.050	E	14.70	D	0.45		
165.542	39.778	S	160.822	E	14.90	D	0.44		
165.583	39.722	S	160.595	E	15.10	D	0.44		
165.625	39.667	S	160.367	E	15.30	D	0.44		
165.667	39.611	S	160.167	E	15.40	D	0.44		
165.708	39.556	S	159.967	E	15.50	D	0.43		
165.750	39.500	S	159.767	E	15.50	D	0.43		
165.792	39.500	S	159.533	E	15.50	D	0.43		
165.833	39.500	S	159.300	E	15.40	D	0.44		
165.875	39.500	S	159.067	E	15.30	D	0.44		
165.917	39.500	S	158.861	E	15.30	D	0.44		
165.958	39.500	S	158.656	E	15.30	D	0.44		
166.000	39.500	S	158.450	E	15.30	D	0.44		
166.042	39.500	S	158.172	E	15.50	D	0.43		
166.083	39.500	S	157.894	E	15.70	D	0.43		
166.125	39.500	S	157.617	E	15.90	D	0.43		
166.167	39.500	S	157.361	E	16.00	D	0.43		
166.208	39.500	S	157.106	E	16.10	D	0.43		

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Date	GMT	Latitude	Flag	Longitude	Flag	Tes	Flag	Warming	Flag
166.250		39.500	S	156.850	E	16.10	D	0.42	
166.292		39.500	S	156.572	E	16.20	D	0.42	
166.333		39.500	S	156.294	E	16.30	D	0.42	
166.375		39.500	S	156.017	E	16.30	D	0.42	
166.417		39.500	S	155.756	E	16.30	D	0.42	
166.458		39.500	S	155.494	E	16.20	D	0.42	
166.500		39.500	S	155.233	E	16.10	D	0.42	
166.542		39.500	S	154.883	E	16.10	D	0.42	
166.583		39.500	S	154.533	E	16.10	D	0.42	
166.625		39.500	S	154.183	E	16.10	D	0.42	
166.667		39.528	S	153.889	E	16.00	D	0.43	
166.708		39.556	S	153.595	E	15.90	D	0.43	
166.750		39.583	S	153.300	E	15.70	D	0.43	
166.792		39.578	S	152.933	E	16.30	D	0.42	
166.833		39.572	S	152.567	E	16.80	D	0.41	
166.875		39.567	S	152.200	E	17.30	D	0.40	
166.917		39.567	S	152.006	E	17.40	D	0.40	
166.958		39.567	S	151.811	E	17.50	D	0.40	
167.000		39.567	S	151.617	E	17.50	D	0.40	
167.042		39.572	S	151.506	E	17.50	D	0.40	
167.083		39.578	S	151.395	E	17.40	D	0.40	
167.125		39.583	S	151.283	E	17.30	D	0.40	
167.167		39.600	S	151.011	E	16.80	D	0.41	
167.208		39.617	S	150.739	E	16.30	D	0.42	
167.250		39.633	S	150.467	E	15.70	D	0.43	
167.292		39.611	S	150.239	E	15.60	D	0.43	
167.333		39.589	S	150.011	E	15.50	D	0.43	
167.375		39.567	S	149.783	E	15.30	D	0.44	
167.417		39.522	S	149.445	E	15.00	D	0.44	
167.458		39.478	S	149.106	E	14.70	D	0.45	
167.500		39.433	S	148.767	E	14.30	D	0.45	
167.542		39.389	S	148.383	E	14.10	D	0.46	
167.583		39.344	S	148.000	E	13.90	D	0.46	
167.625		39.300	S	147.617	E	13.70	D	0.46	
167.667		39.339	S	147.250	E	13.90	D	0.46	
167.708		39.378	S	146.883	E	14.00	D	0.46	
167.750		39.417	S	146.517	E	14.10	D	0.46	
167.792		39.378	S	146.172	E	14.00	D	0.46	
167.833		39.339	S	145.828	E	13.90	D	0.46	
167.875		39.300	S	145.483	E	13.70	D	0.46	
167.917		39.283	S	145.150	E	13.90	D	0.46	
167.958		39.267	S	144.817	E	14.10	D	0.46	
168.000		39.250	S	144.483	E	14.30	D	0.45	
168.042		39.250	S	144.106	E	14.50	D	0.45	
168.083		39.250	S	143.728	E	14.70	D	0.45	
168.125		39.250	S	143.350	E	14.90	D	0.44	
168.167		39.250	S	143.028	E	14.70	D	0.45	
168.208		39.250	S	142.706	E	14.50	D	0.45	
168.250		39.250	S	142.383	E	14.30	D	0.45	
168.292		39.256	S	142.117	E	14.30	D	0.45	

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Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag	
168.333	39.261	S	141.850	E	14.20	D	0.45		
168.375	39.267	S	141.583	E	14.10	D	0.46		
168.417	39.267	S	141.256	E	14.10	D	0.46		
168.458	39.267	S	140.928	E	14.10	D	0.46		
168.500	39.267	S	140.600	E	14.10	D	0.46		
168.542	39.256	S	140.311	E	14.30	D	0.45		
168.583	39.244	S	140.022	E	14.40	D	0.45		
168.625	39.233	S	139.733	E	14.50	D	0.45		
168.667	39.233	S	139.395	E	14.30	D	0.45		
168.708	39.233	S	139.056	E	14.00	D	0.46		
168.750	39.233	S	138.717	E	13.70	D	0.46		
168.792	39.233	S	138.422	E	13.70	D	0.46		
168.833	39.233	S	138.128	E	13.70	D	0.46		
168.875	39.233	S	137.833	E	13.70	D	0.46		
168.917	39.233	S	137.611	E	13.90	D	0.46		
168.958	39.233	S	137.389	E	14.10	D	0.46		
169.000	39.233	S	137.167	E	14.30	D	0.45		
169.042	39.228	S	137.100	E	14.10	D	0.46		
169.083	39.222	S	137.033	E	13.80	D	0.46		
169.125	39.217	S	136.967	E	13.50	D	0.47		
169.167	39.217	S	136.678	E	13.20	D	0.47		
169.208	39.217	S	136.389	E	13.00	D	0.47		
169.250	39.217	S	136.100	E	12.70	D	0.48		
169.292	39.217	S	135.745	E	12.70	D	0.48		
169.333	39.217	S	135.389	E	12.80	D	0.48		
169.375	39.217	S	135.033	E	12.80	D	0.48		
169.417	39.217	S	134.683	E	12.90	D	0.47		
169.458	39.217	S	134.333	E	13.10	D	0.47		
169.500	39.217	S	133.983	E	13.20	D	0.47		
169.542	39.194	S	133.811	E	13.10	D	0.47		
169.583	39.172	S	133.639	E	13.00	D	0.47		
169.625	39.150	S	133.467	E	12.90	D	0.48		
169.667	39.133	S	133.117	E	13.30	D	0.47		
169.708	39.117	S	132.767	E	13.70	D	0.46		
169.750	39.100	S	132.417	E	14.10	D	0.46		
169.792	39.061	S	132.145	E	13.90	D	0.46		
169.833	39.022	S	131.872	E	13.60	D	0.46		
169.875	38.983	S	131.600	E	13.30	D	0.47		
169.917	38.967	S	131.345	E	13.20	D	0.47		
169.958	38.950	S	131.089	E	13.10	D	0.47		
170.000	38.933	S	130.833	E	13.00	D	0.47		
170.042	38.922	S	130.778	E	12.90	D	0.47		
170.083	38.911	S	130.722	E	12.90	D	0.48		
170.125	38.900	S	130.667	E	12.80	D	0.48		
170.167	38.883	S	130.389	E	13.00	D	0.47		
170.208	38.867	S	130.111	E	13.30	D	0.47		
170.250	38.850	S	129.833	E	13.50	D	0.47		
170.292	38.817	S	129.445	E	13.40	D	0.47		
170.333	38.783	S	129.056	E	13.40	D	0.47		
170.375	38.750	S	128.667	E	13.30	D	0.47		

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Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag
170.417	38.722	S	128.411	E	13.30	D	0.47	
170.458	38.694	S	128.156	E	13.30	D	0.47	
170.500	38.667	S	127.900	E	13.30	D	0.47	
170.542	38.683	S	127.650	E	13.60	D	0.46	
170.583	38.700	S	127.400	E	13.90	D	0.46	
170.625	38.717	S	127.150	E	14.10	D	0.46	
170.667	38.700	S	126.872	E	14.10	D	0.46	
170.708	38.683	S	126.594	E	14.10	D	0.46	
170.750	38.667	S	126.317	E	14.10	D	0.46	
170.792	38.589	S	126.061	E	14.10	D	0.46	
170.833	38.511	S	125.806	E	14.10	D	0.46	
170.875	38.433	S	125.550	E	14.10	D	0.46	
170.917	38.378	S	125.283	E	13.80	D	0.46	
170.958	38.322	S	125.017	E	13.50	D	0.47	
171.000	38.267	S	124.750	E	13.20	D	0.47	
171.042	38.233	S	124.561	E	13.20	D	0.47	
171.083	38.200	S	124.372	E	13.30	D	0.47	
171.125	38.167	S	124.183	E	13.30	D	0.47	
171.167	38.100	S	123.906	E	13.20	D	0.47	
171.208	38.033	S	123.628	E	13.00	D	0.47	
171.250	37.967	S	123.350	E	12.90	D	0.48	
171.292	37.911	S	123.139	E	13.40	D	0.47	
171.333	37.856	S	122.928	E	14.00	D	0.46	
171.375	37.800	S	122.717	E	14.50	D	0.45	
171.417	37.733	S	122.489	E	14.80	D	0.45	
171.458	37.667	S	122.261	E	15.10	D	0.44	
171.500	37.600	S	122.033	E	15.30	D	0.44	
171.542	37.533	S	121.745	E	15.00	D	0.44	
171.583	37.467	S	121.456	E	14.70	D	0.45	
171.625	37.400	S	121.167	E	14.30	D	0.45	
171.667	37.344	S	120.978	E	14.80	D	0.44	
171.708	37.289	S	120.789	E	15.30	D	0.44	
171.750	37.233	S	120.600	E	15.80	D	0.43	
171.792	37.178	S	120.350	E	15.90	D	0.43	
171.833	37.122	S	120.100	E	16.00	D	0.43	
171.875	37.067	S	119.850	E	16.10	D	0.42	
171.917	37.011	S	119.628	E	16.20	D	0.42	
171.958	36.956	S	119.406	E	16.30	D	0.42	
172.000	36.900	S	119.183	E	16.30	D	0.42	
172.042	36.778	S	118.961	E	16.50	D	0.42	
172.083	36.656	S	118.739	E	16.70	D	0.41	
172.125	36.533	S	118.517	E	16.90	D	0.41	
172.167	36.439	S	118.333	E	16.90	D	0.41	
172.208	36.344	S	118.150	E	16.90	D	0.41	
172.250	36.250	S	117.967	E	16.90	D	0.41	
172.292	36.133	S	117.767	E	16.90	D	0.41	
172.333	36.017	S	117.567	E	16.90	D	0.41	
172.375	35.900	S	117.367	E	16.90	D	0.41	
172.417	35.828	S	117.183	E	17.70	D	0.40	
172.458	35.756	S	117.000	E	18.60	D	0.39	

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Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag
172.500	35.683	S	116.817	E	19.40	D	0.37	
172.542	35.567	S	116.594	E	18.90	D	0.38	
172.583	35.450	S	116.372	E	18.40	D	0.39	
172.625	35.333	S	116.150	E	18.00	D	0.40	
172.667	35.278	S	115.939	E	18.40	D	0.39	
172.708	35.222	S	115.728	E	18.90	D	0.38	
172.750	35.167	S	115.517	E	19.40	D	0.37	
172.792	35.089	S	115.300	E	19.40	D	0.37	
172.833	35.011	S	115.083	E	19.40	D	0.37	
172.875	34.933	S	114.867	E	19.40	D	0.37	
172.917	34.833	S	114.700	E	19.00	D	0.38	
172.958	34.733	S	114.533	E	18.60	D	0.39	
173.000	34.633	S	114.367	E	18.20	D	0.39	
173.042	34.456	S	114.150	E	18.30	D	0.39	
173.083	34.278	S	113.933	E	18.50	D	0.39	
173.125	34.100	S	113.717	E	18.70	D	0.38	
173.167	34.039	S	113.422	E	18.20	D	0.39	
173.208	33.978	S	113.128	E	17.80	D	0.40	
173.250	33.917	S	112.833	E	17.30	D	0.40	
173.292	33.867	S	112.545	E	17.50	D	0.40	
173.333	33.817	S	112.256	E	17.60	D	0.40	
173.375	33.767	S	111.967	E	17.70	D	0.40	
173.417	33.717	S	111.711	E	17.40	D	0.40	
173.458	33.667	S	111.456	E	17.10	D	0.41	
173.500	33.617	S	111.200	E	16.70	D	0.41	
173.542	33.561	S	110.911	E	16.90	D	0.41	
173.583	33.506	S	110.622	E	17.00	D	0.41	
173.625	33.450	S	110.333	E	17.10	D	0.41	
173.667	33.389	S	110.050	E	17.10	D	0.41	
173.708	33.328	S	109.767	E	17.10	D	0.41	
173.750	33.267	S	109.483	E	17.10	D	0.41	
173.792	33.211	S	109.172	E	16.60	D	0.42	
173.833	33.156	S	108.861	E	16.10	D	0.43	
173.875	33.100	S	108.550	E	15.50	D	0.43	
173.917	33.061	S	108.294	E	15.60	D	0.43	
173.958	33.022	S	108.039	E	15.70	D	0.43	
174.000	32.983	S	107.783	E	15.70	D	0.43	
174.042	32.939	S	107.489	E	15.90	D	0.43	
174.083	32.894	S	107.195	E	16.10	D	0.43	
174.125	32.850	S	106.900	E	16.20	D	0.42	
174.167	32.800	S	106.595	E	16.10	D	0.42	
174.208	32.750	S	106.289	E	16.00	D	0.43	
174.250	32.700	S	105.983	E	15.90	D	0.43	
174.292	32.644	S	105.711	E	16.50	D	0.42	
174.333	32.589	S	105.439	E	17.10	D	0.41	
174.375	32.533	S	105.167	E	17.70	D	0.40	
174.417	32.494	S	104.906	E	17.70	D	0.40	
174.458	32.456	S	104.644	E	17.60	D	0.40	
174.500	32.417	S	104.383	E	17.50	D	0.40	
174.542	32.383	S	104.122	E	17.50	D	0.40	

SAGA II 1987								
Date GMT	Latitude	Flag	Longitude	Flag	Tas	Flag	Warming	Flag
174.583	32.350	S	103.861	E	17.50	D	0.40	
174.625	32.317	S	103.600	E	17.40	D	0.40	
174.667	32.211	S	103.317	E	17.30	D	0.40	
174.708	32.106	S	103.033	E	17.20	D	0.41	
174.750	32.000	S	102.750	E	17.10	D	0.41	
174.792	32.000	S	102.433	E	17.00	D	0.41	
174.833	32.000	S	102.117	E	16.90	D	0.41	
174.875	32.000	S	101.800	E	16.70	D	0.41	
174.917	31.967	S	101.556	E	16.60	D	0.42	
174.958	31.933	S	101.311	E	16.50	D	0.42	
175.000	31.900	S	101.067	E	16.30	D	0.42	
175.042	31.883	S	100.933	E	16.40	D	0.42	
175.083	31.867	S	100.800	E	16.50	D	0.42	
175.125	31.850	S	100.667	E	16.50	D	0.42	
175.167	31.794	S	100.383	E	16.70	D	0.41	
175.208	31.739	S	100.100	E	16.90	D	0.41	
175.250	31.683	S	99.817	E	17.10	D	0.41	
175.292	31.650	S	99.589	E	17.20	D	0.41	
175.333	31.617	S	99.361	E	17.30	D	0.41	
175.375	31.583	S	99.133	E	17.30	D	0.40	
175.417	31.556	S	98.883	E	17.40	D	0.40	
175.458	31.528	S	98.633	E	17.50	D	0.40	
175.500	31.500	S	98.383	E	17.60	D	0.40	
175.542	31.461	S	98.183	E	17.60	D	0.40	
175.583	31.422	S	97.983	E	17.60	D	0.40	
175.625	31.383	S	97.783	E	17.50	D	0.40	
175.667	31.328	S	97.489	E	17.50	D	0.40	
175.708	31.272	S	97.195	E	17.40	D	0.40	
175.750	31.217	S	96.900	E	17.30	D	0.40	
175.792	31.172	S	96.639	E	17.70	D	0.40	
175.833	31.128	S	96.378	E	18.20	D	0.39	
175.875	31.083	S	96.117	E	18.60	D	0.39	
175.917	31.039	S	95.850	E	18.60	D	0.39	
175.958	30.994	S	95.583	E	18.60	D	0.39	
176.000	30.950	S	95.317	E	18.60	D	0.39	
176.042	30.900	S	95.033	E	18.60	D	0.39	
176.083	30.850	S	94.750	E	18.60	D	0.39	
176.125	30.800	S	94.467	E	18.60	D	0.39	
176.167	30.739	S	94.172	E	18.10	D	0.39	
176.208	30.678	S	93.878	E	17.60	D	0.40	
176.250	30.617	S	93.583	E	17.10	D	0.41	
176.292	30.583	S	93.400	E	17.30	D	0.41	
176.333	30.550	S	93.217	E	17.40	D	0.40	
176.375	30.517	S	93.033	E	17.50	D	0.40	
176.417	30.467	S	92.767	E	17.60	D	0.40	
176.458	30.417	S	92.500	E	17.70	D	0.40	
176.500	30.367	S	92.233	E	17.70	D	0.40	
176.542	30.317	S	91.956	E	18.20	D	0.39	
176.583	30.267	S	91.678	E	18.70	D	0.38	
176.625	30.217	S	91.400	E	19.20	D	0.38	

SAGA II 1987								
Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag
176.667	30.156	S	91.094	E	18.90	D	0.38	
176.708	30.094	S	90.789	E	18.60	D	0.38	
176.750	30.033	S	90.483	E	18.40	D	0.39	
176.792	29.856	S	90.383	E	18.80	D	0.38	
176.833	29.678	S	90.283	E	19.30	D	0.37	
176.875	29.500	S	90.183	E	19.80	D	0.37	
176.917	29.244	S	90.122	E	19.80	D	0.37	
176.958	28.989	S	90.061	E	19.90	D	0.36	
177.000	28.733	S	90.000	E	20.00	D	0.36	
177.042	28.567	S	90.000	E	20.00	D	0.36	
177.083	28.400	S	90.000	E	20.00	D	0.36	
177.125	28.233	S	90.000	E	20.00	D	0.36	
177.167	28.017	S	90.000	E	20.00	D	0.36	
177.208	27.800	S	90.000	E	20.10	D	0.36	
177.250	27.583	S	90.000	E	20.20	D	0.36	
177.292	27.539	S	90.000	E	20.20	D	0.36	
177.333	27.494	S	90.000	E	20.20	D	0.36	
177.375	27.450	S	90.000	E	20.20	D	0.36	
177.417	27.267	S	90.000	E	20.20	D	0.36	
177.458	27.083	S	90.000	E	20.30	D	0.36	
177.500	26.900	S	90.000	E	20.40	D	0.36	
177.542	26.850	S	90.000	E	20.40	D	0.36	
177.583	26.800	S	90.000	E	20.40	D	0.36	
177.625	26.750	S	90.000	E	20.50	D	0.36	
177.667	26.478	S	90.000	E	20.80	D	0.35	
177.708	26.206	S	90.000	E	21.10	D	0.35	
177.750	25.933	S	90.000	E	21.40	D	0.34	
177.792	25.667	S	90.000	E	21.70	D	0.34	
177.833	25.400	S	90.000	E	22.10	D	0.33	
177.875	25.133	S	90.000	E	22.40	D	0.33	
177.917	24.883	S	90.000	E	22.40	D	0.32	
177.958	24.633	S	90.000	E	22.50	D	0.32	
178.000	24.383	S	90.000	E	22.50	D	0.32	
178.042	24.289	S	90.000	E	22.30	D	0.33	
178.083	24.194	S	90.000	E	22.10	D	0.33	
178.125	24.100	S	90.000	E	21.90	D	0.33	
178.167	23.828	S	90.000	E	21.80	D	0.33	
178.208	23.556	S	90.000	E	21.80	D	0.33	
178.250	23.283	S	90.000	E	21.80	D	0.33	
178.292	23.089	S	90.000	E	21.80	D	0.33	
178.333	22.894	S	90.000	E	21.80	D	0.33	
178.375	22.700	S	90.000	E	21.80	D	0.33	
178.417	22.428	S	90.000	E	21.90	D	0.33	
178.458	22.156	S	90.000	E	22.10	D	0.33	
178.500	21.883	S	90.000	E	22.20	D	0.33	
178.542	21.728	S	90.000	E	22.10	D	0.33	
178.583	21.572	S	90.000	E	22.10	D	0.33	
178.625	21.417	S	90.000	E	22.00	D	0.33	
178.667	21.133	S	90.000	E	22.20	D	0.33	
178.708	20.850	S	90.000	E	22.40	D	0.33	

SAGA II 1987								
Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag
178.750	20.567	S	90.000	E	22.60	ID	0.32	
178.792	20.350	S	90.000	E	22.90	ID	0.32	
178.833	20.133	S	90.000	E	23.10	ID	0.31	
178.875	19.917	S	90.000	E	23.40	ID	0.31	
178.917	19.694	S	90.000	E	23.40	ID	0.31	
178.958	19.472	S	90.000	E	23.40	ID	0.31	
179.000	19.250	S	90.000	E	23.40	ID	0.31	
179.042	19.172	S	90.000	E	23.40	ID	0.31	
179.083	19.094	S	90.000	E	23.30	ID	0.31	
179.125	19.017	S	90.000	E	23.30	ID	0.31	
179.167	18.733	S	90.000	E	23.30	ID	0.31	
179.208	18.450	S	90.000	E	23.20	ID	0.31	
179.250	18.167	S	90.000	E	23.20	ID	0.31	
179.292	18.000	S	90.000	E	23.40	ID	0.31	
179.333	17.833	S	90.000	E	23.60	ID	0.31	
179.375	17.667	S	90.000	E	23.80	ID	0.30	
179.417	17.422	S	90.000	E	24.10	ID	0.30	
179.458	17.178	S	90.000	E	24.30	ID	0.29	
179.500	16.933	S	90.000	E	24.60	ID	0.29	
179.542	16.783	S	90.000	E	24.90	ID	0.28	
179.583	16.633	S	90.000	E	25.30	ID	0.28	
179.625	16.483	S	90.000	E	25.60	ID	0.27	
179.667	16.211	S	90.000	E	25.70	ID	0.27	
179.708	15.939	S	90.000	E	25.90	ID	0.27	
179.750	15.667	S	90.000	E	26.00	ID	0.27	
179.792	15.472	S	90.000	E	26.10	ID	0.27	
179.833	15.278	S	90.000	E	26.30	ID	0.26	
179.875	15.083	S	90.000	E	26.40	ID	0.26	
179.917	14.861	S	90.000	E	26.60	ID	0.26	
179.958	14.639	S	90.000	E	26.70	ID	0.26	
180.000	14.417	S	90.000	E	26.80	ID	0.26	
180.042	14.300	S	90.000	E	26.70	ID	0.26	
180.083	14.183	S	90.000	E	26.60	ID	0.26	
180.125	14.067	S	90.000	E	26.50	ID	0.26	
180.167	13.800	S	90.000	E	26.50	ID	0.26	
180.208	13.533	S	90.000	E	26.50	ID	0.26	
180.250	13.267	S	90.000	E	26.50	ID	0.26	
180.292	13.117	S	90.000	E	26.60	ID	0.26	
180.333	12.967	S	90.000	E	26.60	ID	0.26	
180.375	12.817	S	90.000	E	26.60	ID	0.26	
180.417	12.567	S	90.000	E	27.00	ID	0.25	
180.458	12.317	S	90.000	E	27.30	ID	0.25	
180.500	12.067	S	90.000	E	27.60	ID	0.24	
180.542	11.928	S	90.000	E	27.60	ID	0.24	
180.583	11.789	S	90.000	E	27.50	ID	0.24	
180.625	11.650	S	90.000	E	27.40	ID	0.25	
180.667	11.372	S	90.000	E	27.50	ID	0.25	
180.708	11.094	S	90.000	E	27.50	ID	0.24	
180.750	10.817	S	90.000	E	27.50	ID	0.24	
180.792	10.622	S	90.000	E	27.60	ID	0.24	

SAGA II 1987									
Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag	
180.833	10.428	S	90.000	E	27.60	D	0.24		
180.875	10.233	S	90.000	E	27.60	D	0.24		
180.917	10.006	S	90.000	E	27.60	D	0.24		
180.958	9.778	S	90.000	E	27.60	D	0.24		
181.000	9.550	S	90.000	E	27.60	D	0.24		
181.042	9.428	S	90.000	E	27.70	D	0.24		
181.083	9.306	S	90.000	E	27.70	D	0.24		
181.125	9.183	S	90.000	E	27.70	D	0.24		
181.167	8.906	S	90.000	E	27.80	D	0.24		
181.208	8.628	S	90.000	E	27.90	D	0.24		
181.250	8.350	S	90.000	E	28.00	D	0.24		
181.292	8.161	S	90.000	E	28.00	D	0.24		
181.333	7.972	S	90.000	E	28.00	D	0.24		
181.375	7.783	S	90.000	E	28.00	D	0.24		
181.417	7.522	S	90.000	E	28.10	D	0.24		
181.458	7.261	S	90.000	E	28.20	D	0.23		
181.500	7.000	S	90.000	E	28.20	D	0.23		
181.542	6.850	S	90.000	E	28.30	D	0.23		
181.583	6.700	S	90.000	E	28.40	D	0.23		
181.625	6.550	S	90.000	E	28.40	D	0.23		
181.667	6.267	S	90.000	E	28.30	D	0.23		
181.708	5.983	S	90.000	E	28.20	D	0.23		
181.750	5.700	S	90.000	E	28.10	D	0.23		
181.792	5.522	S	90.000	E	28.20	D	0.23		
181.833	5.344	S	90.000	E	28.30	D	0.23		
181.875	5.167	S	90.000	E	28.40	D	0.23		
181.917	4.917	S	90.000	E	28.50	D	0.23		
181.958	4.667	S	90.000	E	28.60	D	0.23		
182.000	4.417	S	90.000	E	28.60	D	0.23		
182.042	4.367	S	90.000	E	28.80	D	0.22		
182.083	4.267	S	90.000	E	28.80	D	0.22		
182.125	4.017	S	90.000	E	28.80	D	0.22		
182.167	3.767	S	90.000	E	29.00	D	0.22		
182.208	3.450	S	90.000	E	29.10	D	0.22		
182.250	3.200	S	90.000	E	29.20	D	0.22		
182.292	3.183	S	90.000	E	29.20	D	0.22		
182.333	2.917	S	90.000	E	29.40	D	0.21		
182.375	2.667	S	90.000	E	29.50	D	0.21		
182.417	2.417	S	90.000	E	29.40	D	0.21		
182.458	2.167	S	90.000	E	29.40	D	0.21		
182.500	1.917	S	90.000	E	29.40	D	0.21		
182.542	1.850	S	90.000	E	29.40	D	0.21		
182.583	1.850	S	90.000	E	29.40	D	0.21		
182.625	1.650	S	90.000	E	29.40	D	0.21		
182.667	1.417	S	90.000	E	29.30	D	0.22		
182.708	1.083	S	90.000	E	29.10	D	0.22		
182.750	0.850	S	90.000	E	29.10	D	0.22		
182.792	0.817	S	90.000	E	29.10	D	0.22		
182.833	0.600	S	90.000	E	28.70	D	0.22		
182.875	0.350	S	90.000	E	28.80	D	0.22		

SAGA II 1987								
Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag
182.917	0.100	S	90.000	E	28.90	D	0.22	
182.958	0.150	N	90.000	E	28.90	D	0.22	
183.000	0.367	N	90.000	E	28.90	D	0.22	
183.042	0.367	N	90.000	E	29.00	D	0.22	
183.083	0.533	N	90.000	E	29.00	D	0.22	
183.125	0.700	N	90.000	E	29.00	D	0.22	
183.167	0.983	N	90.000	E	29.10	D	0.22	
183.208	1.267	N	90.000	E	29.10	D	0.22	
183.250	1.550	N	90.000	E	29.10	D	0.22	
183.292	1.683	N	90.000	E	29.20	D	0.22	
183.333	1.817	N	90.000	E	29.20	D	0.22	
183.375	1.950	N	90.000	E	29.20	D	0.22	
183.417	2.211	N	90.000	E	29.20	D	0.22	
183.458	2.472	N	90.000	E	29.20	D	0.22	
183.500	2.733	N	90.000	E	29.20	D	0.22	
183.542	2.878	N	90.000	E	29.20	D	0.22	
183.583	3.022	N	90.000	E	29.10	D	0.22	
183.625	3.167	N	90.000	E	29.00	D	0.22	
183.667	3.444	N	90.000	E	29.00	D	0.22	
183.708	3.722	N	90.000	E	29.00	D	0.22	
183.750	4.000	N	90.000	E	28.90	D	0.22	
183.792	4.161	N	90.000	E	28.90	D	0.22	
183.833	4.322	N	90.000	E	28.90	D	0.22	
183.875	4.483	N	90.000	E	28.90	D	0.22	
183.917	4.728	N	90.000	E	28.90	D	0.22	
183.958	4.972	N	90.000	E	28.90	D	0.22	
184.000	5.217	N	90.000	E	28.80	D	0.22	
184.042	5.239	N	90.083	E	28.90	D	0.22	
184.083	5.261	N	90.167	E	28.90	D	0.22	
184.125	5.283	N	90.250	E	28.90	D	0.22	
184.167	5.339	N	90.533	E	28.90	D	0.22	
184.208	5.394	N	90.817	E	28.90	D	0.22	
184.250	5.450	N	91.100	E	28.90	D	0.22	
184.292	5.511	N	91.361	E	28.90	D	0.22	
184.333	5.572	N	91.622	E	28.90	D	0.22	
184.375	5.633	N	91.883	E	28.80	D	0.22	
184.417	5.694	N	92.144	E	28.90	D	0.22	
184.458	5.756	N	92.406	E	28.90	D	0.22	
184.500	5.817	N	92.667	E	28.90	D	0.22	
184.542	5.850	N	92.933	E	28.90	D	0.22	
184.583	5.883	N	93.200	E	28.90	D	0.22	
184.625	5.917	N	93.467	E	28.90	D	0.22	
184.667	5.972	N	93.728	E	28.90	D	0.22	
184.708	6.028	N	93.989	E	28.90	D	0.22	
184.750	6.083	N	94.250	E	28.90	D	0.22	
184.792	6.139	N	94.528	E	28.90	D	0.22	
184.833	6.194	N	94.806	E	28.90	D	0.22	
184.875	6.250	N	95.083	E	28.90	D	0.22	
184.917	6.172	N	95.306	E	29.00	D	0.22	
184.958	6.094	N	95.528	E	29.10	D	0.22	

SAGA II 1987								
Date GMT	Latitude	Flag	Longitude	Flag	Tss	Flag	Warming	Flag
185.000	6.017	N	95.750	E	29.20	D	0.22	
185.042	5.928	N	96.050	E	29.50	D	0.21	
185.083	5.839	N	96.350	E	29.80	D	0.21	
185.125	5.750	N	96.650	E	30.00	D	0.20	
185.167	5.739	N	96.678	E	30.00	D	0.20	
185.208	5.728	N	96.706	E	30.00	D	0.21	
185.250	5.717	N	96.733	E	29.90	D	0.21	
185.292	5.683	N	96.739	E	30.00	D	0.20	
185.333	5.650	N	96.744	E	30.10	D	0.20	
185.375	5.617	N	96.750	E	30.20	D	0.20	
185.417	5.594	N	96.967	E	30.20	D	0.20	
185.458	5.572	N	97.183	E	30.10	D	0.20	
185.500	5.550	N	97.400	E	30.00	D	0.20	
185.542	5.428	N	97.611	E	30.00	D	0.20	
185.583	5.306	N	97.822	E	30.00	D	0.20	
185.625	5.183	N	98.033	E	30.00	D	0.20	
185.667	5.017	N	98.228	E	30.00	D	0.21	
185.708	4.850	N	98.422	E	29.90	D	0.21	
185.750	4.683	N	98.617	E	29.80	D	0.21	
185.792	4.517	N	98.833	E	29.80	D	0.21	
185.833	4.350	N	99.050	E	29.80	D	0.21	
185.875	4.183	N	99.267	E	29.70	D	0.21	
185.917	4.022	N	99.483	E	29.40	D	0.21	
185.958	3.861	N	99.700	E	29.10	D	0.22	
186.000	3.700	N	99.917	E	28.80	D	0.22	
186.042	3.528	N	100.033	E	28.80	D	0.22	
186.083	3.356	N	100.150	E	28.80	D	0.22	
186.125	3.183	N	100.267	E	28.70	D	0.22	
186.167	3.022	N	100.539	E	28.90	D	0.22	
186.208	2.861	N	100.811	E	29.10	D	0.22	
186.250	2.700	N	101.083	E	29.20	D	0.22	
186.292	2.700	N	101.083	E	29.40	D	0.21	
186.333	2.700	N	101.083	E	29.50	D	0.21	
186.375	2.700	N	101.083	E	29.60	D	0.21	
186.417	2.639	N	101.183	E	29.80	D	0.21	
186.458	2.578	N	101.283	E	29.90	D	0.21	
186.500	2.517	N	101.383	E	30.00	D	0.20	

## **RITS/CO<sub>2</sub>/TOGA 1987**

				RITS/CO2/TOGA 1987								
Date GMT	Latitude	Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
194.542	18.060 S	147.313 E		24.91		25.04		0.33		0.13		
194.583	18.028 S	147.313 E		24.91		25.08		0.33		0.17		
194.625	17.898 S	147.425 E		24.75		25.00		0.33		0.25		
194.667	17.718 S	147.602 E		24.49		24.69		0.34		0.20		
194.708	17.530 S	147.625 E		24.47		24.66		0.34		0.19		
194.750	17.345 S	147.992 E		24.71		24.86		0.33		0.15		
194.792	17.140 S	148.190 E		24.79		24.95		0.33		0.16		
194.833	16.918 S	148.333 E		24.94		25.10		0.33		0.17		
194.875	16.695 S	148.472 E		24.88		25.06		0.33		0.18		
194.917	16.465 S	148.630 E		25.25		25.37		0.33		0.12		
194.958	16.232 S	148.763 E		25.20		25.42		0.33		0.22		
195.000	16.028 S	148.892 E		25.23		25.46		0.33		0.23		
195.042	15.790 S	149.043 E		25.19		25.45		0.33		0.26		
195.083	15.612 S	149.245 E		25.32		25.57		0.33		0.26		
195.125	15.427 S	149.412 E		25.31		25.61		0.33		0.30		
195.167	15.248 S	149.617 E		25.17		25.54		0.33		0.37		
195.208	15.078 S	149.817 E		24.91		25.26		0.33		0.36		
195.250	14.922 S	149.030 E		25.30		25.50		0.33		0.20		
195.292	14.787 S	150.258 E		25.50		25.73		0.33		0.23		
195.333	14.610 S	150.477 E		25.76		25.89		0.32		0.12		
195.375	14.447 S	150.677 E		25.88		26.05		0.32		0.17		
195.412	14.288 S	150.887 E		25.87		26.02		0.32		0.15		
195.458	14.135 S	151.105 E		25.85		26.05		0.32		0.20		
195.500	13.943 S	151.333 E		25.73		25.85		0.32		0.12		
195.542	13.823 S	151.510 E		25.77		25.96		0.32		0.20		
195.583	13.652 S	151.715 E		25.80		26.03		0.32		0.22		
195.625	13.487 S	151.917 E		25.87		26.09		0.32		0.22		
195.667	13.322 S	152.122 E		25.93		26.16		0.32		0.23		
195.708	13.160 S	152.335 E		25.94		26.17		0.32		0.23		
195.750	12.983 S	152.575 E		25.92		26.15		0.32		0.23		
195.792	12.848 S	152.780 E		25.89		26.11		0.32		0.21		
195.833	12.692 S	153.010 E		26.04		26.20		0.32		0.17		
195.875	12.533 S	153.215 E		26.09		26.28		0.32		0.19		
195.917	12.373 S	153.415 E		26.13		26.33		0.32		0.20		
195.958	12.307 S	153.442 E		26.15		26.37		0.32		0.21		
196.000	12.368 S	153.442 E		26.15		26.43		0.32		0.28		
196.042	12.307 S	153.537 E		26.14		26.44		0.32		0.30		
196.083	12.163 S	153.730 E		26.13		26.47		0.32		0.34		
196.125	11.975 S	153.955 E		25.93		26.32		0.32		0.39		
196.167	11.807 S	154.148 E		25.84		26.15		0.32		0.31		
196.208	11.620 S	154.033 E		25.98		26.28		0.32		0.29		
196.250	11.435 S	154.525 E		26.07		26.38		0.32		0.32		
196.292	11.387 S	154.532 E		26.06		26.39		0.32		0.33		
196.333	11.363 S	154.567 E		26.06		26.34		0.32		0.29		
196.375	11.327 S	154.620 E		26.09		26.36		0.32		0.27		
196.412	11.277 S	154.760 E		26.29		26.54		0.32		0.25		
196.458	11.255 S	154.765 E		26.26		26.55		0.32		0.29		
196.500	11.227 S	154.798 E		26.23		26.51		0.32		0.28		
196.542	11.168 S	154.965 E		26.16		26.43		0.32		0.27		

RITS/CO2/TOGA 1987											
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
196.583	11.170	S	154.985	E	26.13	26.38		0.32		0.26	
196.625	11.140	S	155.023	E	26.17	26.42		0.32		0.25	
196.667	11.153	S	155.193	E	26.23	26.49		0.32		0.26	
196.708	11.048	S	155.210	E	26.24	26.51		0.32		0.27	
196.750	11.003	S	155.295	E	26.31	26.56		0.32		0.25	
196.792	10.952	S	155.435	E	26.41	26.65		0.32		0.24	
196.833	10.942	S	155.433	E	26.45	26.71		0.32		0.26	
196.875	10.940	S	155.420	E	26.46	26.70		0.32		0.24	
196.917	10.945	S	155.525	E	26.60	26.80		0.31		0.20	
196.958	10.965	S	155.703	E	26.63	26.90		0.31		0.27	
197.000	10.905	S	155.843	E	26.65	26.94		0.31		0.30	
197.042	10.723	S	155.928	E	26.68	27.00		0.31		0.32	
197.083	10.620	S	155.987	E	26.72	27.13		0.31		0.40	
197.125	10.635	S	155.970	E	26.73	27.19		0.31		0.47	
197.167	10.617	S	155.962	E	26.72	27.23		0.31		0.50	
197.208	10.613	S	155.955	E	26.72	27.20		0.31		0.48	
197.250	10.605	S	155.952	E	26.71		*	0.31		*	
197.292	10.558	S	156.098	E	26.71		*	0.31		*	
197.333	10.543	S	156.092	E	26.71		*	0.31		*	
197.375	10.552	S	156.077	E	26.70		*	0.31		*	
197.412	10.537	S	156.077	E	26.73	27.05		0.31		0.31	
197.458	10.492	S	156.207	E	26.79	27.10		0.31		0.31	
197.500	10.485	S	156.210	E	26.82	27.13		0.31		0.31	
197.542	10.477	S	156.210	E	26.86	27.14		0.31		0.28	
197.583	10.475	S	156.212	E	26.86	27.13		0.31		0.26	
197.625	10.423	S	156.320	E	26.83	27.09		0.31		0.26	
197.667	10.415	S	156.332	E	26.82	27.07		0.31		0.25	
197.708	10.417	S	156.332	E	26.83	27.06		0.31		0.23	
197.750	10.415	S	156.332	E	26.80	27.05		0.31		0.25	
197.792	10.337	S	156.445	E	26.66	26.92		0.31		0.26	
197.833	10.340	S	156.445	E	26.66	26.86		0.31		0.20	
197.875	10.347	S	156.440	E	26.67	26.88		0.31		0.21	
197.917	10.345	S	156.442	E	26.68		*	0.31		*	
197.958	10.313	S	156.485	E	26.62	26.86		0.31		0.24	
198.000	10.200	S	156.640	E	26.62	26.91		0.31		0.28	
198.042	10.192	S	156.663	E	26.61	26.94		0.31		0.33	
198.083	10.178	S	156.653	E	26.62	27.00		0.31		0.38	
198.125	10.198	S	156.663	E	26.65	27.06		0.31		0.41	
198.167	10.120	S	156.808	E	26.66	27.05		0.31		0.39	
198.208	10.040	S	156.865	E	26.66	27.07		0.31		0.42	
198.250	10.062	S	156.877	E	26.65	27.07		0.31		0.42	
198.292	10.075	S	156.883	E	26.64	27.03		0.31		0.39	
198.333	9.980	S	157.008	E	26.63	26.94		0.31		0.31	
198.375	9.892	S	157.108	E	26.65	26.93		0.31		0.28	
198.412	9.910	S	157.117	E	26.66	26.92		0.31		0.26	
198.458	9.915	S	157.117	E	26.73	26.92		0.31		0.19	
198.500	9.922	S	157.142	E	26.89	26.91		0.31		0.02	
198.542	9.840	S	157.205	E	26.93	26.91		0.31		-0.02	
198.583	9.753	S	157.322	E	26.66	26.92		0.31		0.26	
198.625	9.762	S	157.332	E	26.66	26.91		0.31		0.25	

RITS/CO2/TOGA 1987										
Date GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
198.667	9.765 S	157.000 E	26.66		26.90		0.31		0.24	
198.708	9.757 S	157.357 E	26.67		26.90		0.31		0.23	
198.750	9.650 S	157.492 E	26.69		26.91		0.31		0.21	
198.792	9.623 S	157.538 E	26.73		26.93		0.31		0.20	
198.833	9.628 S	157.547 E	26.73		26.92		0.31		0.19	
198.875	9.647 S	157.552 E	26.73		26.92		0.31		0.20	
198.917	9.595 S	157.603 E	26.77		26.97		0.31		0.20	
198.958	9.510 S	157.710 E	26.94		27.15		0.31		0.20	
199.000	9.510 S	157.603 E	26.95		27.24		0.31		0.29	
199.042	9.480 S	157.763 E	26.96		27.32		0.31		0.36	
199.083	9.480 S	157.748 E	26.97		27.40		0.31		0.43	
199.125	9.483 S	157.747 E	26.98		27.44		0.31		0.46	
199.167	9.497 S	157.748 E	27.00		27.45		0.31		0.45	
199.208	9.393 S	157.880 E	27.12		27.50		0.31		0.38	
199.250	9.340 S	157.982 E	27.13		27.54		0.31		0.41	
199.292	9.345 S	157.943 E	27.11		27.50		0.31		0.39	
199.333	9.360 S	157.952 E	27.09		27.43		0.31		0.34	
199.375	9.257 S	158.077 E	27.05		27.35		0.31		0.30	
199.412	9.188 S	158.137 E	27.27		27.53		0.31		0.28	
199.458	9.157 S	158.178 E	27.29		27.58		0.31		0.30	
199.500	9.155 S	158.202 E	27.32		27.59		0.31		0.26	
199.542	9.190 S	158.360 E	27.42		27.66		0.30		0.24	
199.583	9.245 S	157.602 E	27.10		27.41		0.31		0.31	
199.625	9.293 S	158.982 E	26.86		27.15		0.31		0.29	
199.667	9.325 S	159.097 E	26.88		27.06		0.31		0.18	
199.708	9.228 S	159.305 E	27.42		27.58		0.30		0.16	
199.750	9.132 S	159.523 E	27.47		27.67		0.30		0.20	
199.792	8.962 S	159.708 E	27.61		27.81		0.30		0.20	
199.833	8.825 S	159.880 E	27.67		27.86		0.30		0.19	
199.875	8.683 S	160.078 E	27.61		27.85		0.30		0.24	
199.917	8.503 S	160.263 E	27.66		27.83		0.30		0.17	
199.958	8.322 S	160.442 E	27.82		28.08		0.30		0.27	
200.000	8.113 S	160.585 E	27.68		28.01		0.30		0.33	
200.042	7.953 S	160.740 E	27.71		28.05		0.30		0.34	
200.083	7.808 S	160.917 E	27.74		28.13		0.30		0.40	
200.125	7.658 S	161.128 E	27.72		28.15		0.30		0.43	
200.167	7.517 S	161.333 E	27.80		28.21		0.30		0.41	
200.208	7.395 S	161.527 E	27.73		28.16		0.30		0.43	
200.250	7.262 S	161.730 E	27.73		28.12		0.30		0.39	
200.292	7.127 S	161.937 E	27.75		28.11		0.30		0.36	
200.333	6.988 S	162.142 E	27.76		28.10		0.30		0.35	
200.375	6.845 S	162.335 E	27.84		28.18		0.30		0.34	
200.412	6.698 S	162.527 E	27.84		28.16		0.30		0.32	
200.458	6.555 S	162.712 E	27.82		28.16		0.30		0.34	
200.500	6.415 S	162.903 E	27.84		28.15		0.30		0.32	
200.542	6.253 S	163.117 E	27.89		28.12		0.30		0.23	
200.583	6.102 S	163.300 E	27.88		28.11		0.30		0.23	
200.625	5.965 S	163.517 E	27.81		28.05		0.30		0.24	
200.667	5.827 S	163.718 E	27.89		28.10		0.30		0.22	
200.708	5.688 S	163.920 E	27.92		28.15		0.30		0.23	

				RITS/CO2/TOGA 1987							
Date GMT	Latitude	Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
200.750	5.548 S	164.123 E		27.94		28.17		0.30		0.23	
200.792	5.418 S	164.327 E		28.06		28.26		0.30		0.20	
200.833	5.292 S	164.532 E		28.05		28.29		0.30		0.24	
200.875	5.163 S	164.732 E		28.07		28.32		0.30		0.25	
200.917	5.035 S	164.933 E		28.16		28.42		0.30		0.26	
200.958	4.983 S	165.035 E		28.20		28.51		0.30		0.31	
201.000	5.003 S	165.047 E		28.27		28.62		0.29		0.35	
201.042	4.983 S	165.035 E		28.33		28.70		0.29		0.38	
201.083	5.067 S	165.145 E		28.47		28.86		0.29		0.39	
201.125	5.070 S	165.118 E		28.49		28.90		0.29		0.40	
201.167	5.055 S	165.100 E		28.51		28.90		0.29		0.38	
201.208	5.047 S	165.082 E		28.52		28.86		0.29		0.34	
201.250	5.042 S	165.072 E		28.54		28.82		0.29		0.28	
201.292	5.023 S	165.050 E		28.50		28.75		0.29		0.25	
201.333	5.002 S	165.027 E		28.48		28.68		0.29		0.21	
201.375	5.000 S	165.990 E		28.48		28.66		0.29		0.19	
201.412	4.985 S	165.015 E		28.52		28.68		0.29		0.16	
201.458	4.983 S	165.008 E		28.49		28.64		0.29		0.15	
201.500	4.985 S	165.023 E		28.40		28.60		0.29		0.20	
201.542	4.793 S	165.012 E		28.18		28.46		0.30		0.29	
201.583	4.548 S	164.995 E		28.15		28.39		0.30		0.24	
201.625	4.292 S	164.992 E		28.23		28.47		0.29		0.23	
201.667	4.040 S	164.993 E		28.22		28.46		0.30		0.24	
201.708	4.007 S	164.985 E		28.20		28.43		0.30		0.23	
201.750	4.008 S	164.975 E		28.21		28.43		0.30		0.22	
201.792	3.813 S	164.975 E		28.23		28.44		0.29		0.21	
201.833	3.563 S	164.987 E		28.22		*		0.30		*	
201.875	3.303 S	164.997 E		28.26		*		0.29		*	
201.917	3.052 S	165.000 E		28.49		*		0.29		*	
201.958	3.010 S	165.002 E		28.56		*		0.29		*	
202.000	2.980 S	164.990 E		28.54		*		0.29		*	
202.042	2.807 S	164.997 E		28.61		*		0.29		*	
202.083	2.542 S	164.998 E		28.64		29.16		0.29		0.52	
202.125	2.298 S	165.030 E		28.43		28.97		0.29		0.54	
202.167	2.007 S	165.027 E		28.42		28.92		0.29		0.50	
202.208	1.985 S	165.048 E		28.45		28.91		0.29		0.46	
202.250	2.003 S	165.032 E		28.49		28.91		0.29		0.42	
202.292	2.022 S	165.115 E		28.57		28.96		0.29		0.39	
202.333	2.010 S	165.140 E		28.68		28.99		0.29		0.31	
202.375	2.010 S	165.158 E		28.56		28.84		0.29		0.28	
202.412	2.012 S	165.157 E		28.54		28.87		0.29		0.32	
202.458	2.010 S	165.150 E		28.54		28.86		0.29		0.32	
202.500	2.010 S	165.150 E		28.56		28.84		0.29		0.29	
202.542	2.010 S	165.067 E		28.57		28.83		0.29		0.26	
202.583	2.007 S	165.193 E		28.53		28.78		0.29		0.26	
202.625	2.003 S	165.200 E		28.51		28.76		0.29		0.25	
202.667	2.000 S	165.210 E		28.46		28.72		0.29		0.26	
202.708	2.000 S	165.210 E		28.40		28.66		0.29		0.26	
202.750	2.038 S	165.167 E		28.40		28.64		0.29		0.24	
202.792	2.038 S	165.170 E		28.40		28.65		0.29		0.25	

RITS/CO2/TOGA 1987											
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
202.833	2.030	S	165.172	E	28.38	28.64		0.29		0.25	
202.875	1.890	S	165.085	E	28.37	28.64		0.29		0.27	
202.917	1.683	S	165.068	E	28.42	28.72		0.29		0.30	
202.958	1.492	S	165.023	E	28.52	28.80		0.29		0.28	
203.000	1.498	S	165.010	E	28.54	28.90		0.29		0.36	
203.042	1.497	S	165.022	E	28.51	*		0.29		*	
203.083	1.450	S	165.043	E	28.59	*		0.29		*	
203.125	1.453	S	165.075	E	28.56	*		0.29		*	
203.167	1.448	S	165.098	E	28.53	28.96		0.29		0.42	
203.208	1.448	S	165.123	E	28.52	28.95		0.29		0.43	
203.250	1.485	S	165.170	E	28.51	28.91		0.29		0.41	
203.292	1.350	S	165.148	E	28.51	28.89		0.29		0.38	
203.333	1.142	S	165.092	E	28.43	28.79		0.29		0.36	
203.375	1.000	S	165.007	E	28.46	28.81		0.29		0.35	
203.412	1.005	S	165.022	E	28.49	28.80		0.29		0.31	
203.458	0.908	S	165.048	E	28.51	28.81		0.29		0.29	
203.500	0.718	S	165.053	E	28.50	28.82		0.29		0.32	
203.542	0.402	S	164.980	E	28.56	28.82		0.29		0.26	
203.583	0.497	S	165.005	E	28.57	28.84		0.29		0.27	
203.625	0.440	S	165.043	E	28.60	28.83		0.29		0.24	
203.667	0.247	S	165.095	E	28.64	28.86		0.29		0.22	
203.708	0.193	S	165.110	E	28.67	28.88		0.29		0.21	
203.750	0.183	S	165.155	E	28.70	28.87		0.29		0.18	
203.792	0.080	S	165.110	E	28.71	28.90		0.29		0.19	
203.833	0.085	S	165.168	E	28.71	28.92		0.29		0.21	
203.875	0.090	S	165.170	E	28.72	28.96		0.29		0.23	
203.917	0.075	S	165.122	E	28.77	29.02		0.29		0.25	
203.958	0.075	S	165.122	E	28.78	29.07		0.29		0.29	
204.000	0.080	S	165.145	E	28.77	29.12		0.29		0.35	
204.042	0.075	S	165.140	E	28.74	29.12		0.29		0.38	
204.083	0.077	S	165.147	E	28.78	29.07		0.29		0.29	
204.125	0.065	S	165.158	E	28.82	29.09		0.29		0.27	
204.167	0.053	S	165.175	E	28.82	29.09		0.29		0.27	
204.208	0.032	S	165.045	E	28.85	29.10		0.29		0.24	
204.250	0.020	S	164.908	E	28.88	29.14		0.29		0.26	
204.292	0.042	S	164.998	E	28.87	29.12		0.29		0.25	
204.333	0.038	S	165.013	E	28.83	29.08		0.29		0.25	
204.375	0.020	S	165.048	E	28.82	29.05		0.29		0.23	
204.412	0.018	S	165.072	E	28.80	29.03		0.29		0.23	
204.458	0.008	S	165.133	E	28.79	29.02		0.29		0.22	
204.500	0.010	S	165.137	E	28.77	28.99		0.29		0.22	
204.542	0.000	N	165.135	E	28.72	28.97		0.29		0.25	
204.583	0.007	N	165.137	E	28.72	28.97		0.29		0.25	
204.625	0.010	N	165.137	E	28.69	28.95		0.29		0.26	
204.667	0.015	N	165.135	E	28.67	28.92		0.29		0.25	
204.708	0.008	N	165.210	E	28.68	28.92		0.29		0.24	
204.750	0.027	N	165.227	E	28.68	28.92		0.29		0.24	
204.792	0.007	N	165.210	E	28.69	28.92		0.29		0.23	
204.833	0.043	N	165.243	E	28.69	28.94		0.29		0.26	
204.875	0.183	N	165.198	E	28.70	28.99		0.29		0.29	

				RITS/CO2/TOGA 1987								
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
204.917	0.352	N	165.063	E	28.75		29.08		0.29		0.34	
204.958	0.833	N	165.012	E	28.86		29.22		0.29		0.36	
205.000	0.507	N	165.030	E	28.93		29.34		0.29		0.41	
205.042	0.590	N	165.040	E	28.86		29.30		0.29		0.45	
205.083	0.808	N	165.022	E	28.96		29.41		0.29		0.45	
205.125	0.977	N	165.020	E	28.96		29.37		0.29		0.41	
205.167	0.977	N	165.020	E	29.09		29.44		0.29		0.36	
205.208	0.993	N	165.052	E	29.15		29.45		0.28		0.30	
205.250	0.993	N	165.052	E	29.09		29.41		0.29		0.32	
205.292	0.985	N	165.102	E	29.10		29.32		0.29		0.23	
205.333	0.992	N	165.003	E	29.04		29.26		0.29		0.22	
205.375	1.010	N	165.017	E	29.02		29.23		0.29		0.21	
205.412	1.063	N	165.037	E	28.94		29.15		0.29		0.21	
205.458	1.228	N	165.048	E	28.84		29.05		0.29		0.22	
205.500	1.417	N	165.017	E	28.77		29.00		0.29		0.23	
205.542	1.572	N	164.997	E	28.69		28.97		0.29		0.28	
205.583	1.593	N	164.995	E	28.69		28.94		0.29		0.25	
205.625	1.770	N	164.985	E	28.69		*		0.29		*	
205.667	1.958	N	164.995	E	28.68		*		0.29		*	
205.708	1.993	N	165.008	E	28.63		*		0.29		*	
205.750	2.003	N	165.018	E	28.61		*		0.29		*	
205.792	2.015	N	165.025	E	28.60		*		0.29		*	
205.833	1.998	N	164.983	E	28.65		*		0.29		*	
205.875	1.967	N	165.093	E	28.72		28.97		0.29		0.28	
205.917	1.968	N	164.937	E	28.74		28.96		0.29		0.22	
205.958	1.977	N	164.938	E	28.79		28.98		0.29		0.19	
206.000	1.988	N	164.942	E	28.78		29.06		0.29		0.28	
206.042	2.000	N	164.947	E	28.73		29.15		0.29		0.42	
206.083	2.017	N	164.967	E	28.77		29.20		0.29		0.43	
206.125	2.030	N	164.973	E	28.88		*		0.29		*	
206.167	2.020	N	165.010	E	28.83		*		0.29		*	
206.208	2.032	N	165.007	E	28.79		29.07		0.29		0.28	
206.250	2.028	N	165.055	E	28.78		29.08		0.29		0.29	
206.292	2.043	N	165.072	E	28.76		29.05		0.29		0.29	
206.333	2.035	N	165.060	E	28.73		29.02		0.29		0.29	
206.375	2.038	N	165.032	E	28.72		29.01		0.29		0.29	
206.412	2.043	N	165.043	E	28.67		28.98		0.29		0.31	
206.458	2.062	N	165.075	E	28.65		28.96		0.29		0.31	
206.500	2.157	N	165.050	E	28.56		28.88		0.29		0.32	
206.542	2.345	N	165.062	E	28.49		28.73		0.29		0.24	
206.583	2.562	N	165.048	E	28.53		28.72		0.29		0.19	
206.625	2.770	N	165.040	E	28.57		28.75		0.29		0.18	
206.667	2.973	N	165.003	E	28.59		28.75		0.29		0.16	
206.708	2.997	N	165.007	E	28.60		28.74		0.29		0.14	
206.750	3.030	N	165.007	E	28.59		28.70		0.29		0.11	
206.792	3.215	N	165.012	E	28.63		28.69		0.29		0.05	
206.833	3.425	N	165.003	E	28.69		28.76		0.29		0.07	
206.875	3.613	N	164.963	E	28.79		28.89		0.29		0.09	
206.917	3.832	N	164.995	E	28.88		28.98		0.29		0.11	
206.958	4.003	N	165.002	E	28.96		29.09		0.29		0.13	

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Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warning	Flag	Point-by-point	Flag		
207.000	4.022	N	165.017	E	28.92	29.21		0.29		0.29			
207.042	4.043	N	165.035	E	28.85	29.28		0.29		0.43			
207.083	4.065	N	165.055	E	28.86	29.34		0.29		0.48			
207.125	4.237	N	165.053	E	28.88	29.36		0.29		0.48			
207.167	4.437	N	165.028	E	28.95	29.23		0.29		0.28			
207.208	4.693	N	164.993	E	29.14	29.30		0.28		0.16			
207.250	4.960	N	164.995	E	29.28	29.38		0.28		0.10			
207.292	5.010	N	165.008	E	29.32	29.40		0.28		0.09			
207.333	5.033	N	164.987	E	29.20	29.26		0.28		0.06			
207.375	5.150	N	165.003	E	29.20	29.15		0.28		-0.05			
207.412	5.422	N	164.985	E	29.31	29.22		0.28		-0.08	D		
207.458	5.690	N	164.993	E	29.17	29.07		0.28		-0.10	D		
207.500	5.922	N	165.005	E	29.14	29.16		0.28		0.02			
207.542	5.995	N	164.972	E	29.06	29.31		0.29		0.26			
207.583	6.037	N	164.970	E	29.06	29.36		0.29		0.30			
207.625	6.267	N	164.962	E	29.10	29.29		0.29		0.19			
207.667	6.520	N	164.967	E	29.23	29.35		0.28		0.12			
207.708	6.778	N	164.987	E	29.17	29.35		0.28		0.18			
207.750	7.003	N	165.007	E	29.15	29.31		0.28		0.16			
207.792	7.003	N	164.995	E	29.12	29.30		0.28		0.18			
207.833	7.118	N	164.980	E	29.01	29.17		0.29		0.16			
207.875	7.395	N	164.973	E	29.04	29.18		0.29		0.14			
207.917	7.867	N	164.977	E	29.05	29.28		0.29		0.23			
207.958	7.943	N	164.987	E	29.09	29.29		0.29		0.20			
208.000	8.005	N	164.990	E	29.10	29.43		0.29		0.33			
208.042	8.020	N	164.998	E	29.02	29.51		0.29		0.49			
208.083	8.028	N	164.972	E	29.12	29.61		0.28		0.49			
208.125	8.038	N	164.970	E	29.22	29.77		0.28		0.55			
208.167	8.042	N	164.963	E	29.25	29.82		0.28		0.57			
211.167	8.733	N	167.733	E	29.20		*	0.28		*			
211.208	8.900	N	167.500	E	29.19		*	0.28		*			
211.250	8.993	N	167.198	E	29.18		*	0.28		*			
211.292	9.083	N	166.945	E	29.20		*	0.28		*			
211.333	9.212	N	166.690	E	29.17		*	0.28		*			
211.375	9.338	N	166.450	E	29.00		*	0.29		*			
211.412	9.457	N	166.192	E	28.86	29.27		0.29		0.41			
211.458	9.583	N	165.573	E	28.85	29.24		0.29		0.39			
211.500	9.665	N	165.650	E	28.86	29.21		0.29		0.36			
211.542	9.778	N	165.385	E	28.87	29.17		0.29		0.30			
211.583	9.892	N	165.182	E	28.91	29.16		0.29		0.24			
211.625	10.002	N	165.000	E	28.78	29.08		0.29		0.30			
211.667	10.008	N	165.013	E	28.72	29.02		0.29		0.30			
211.708	10.002	N	165.000	E	28.70	28.97		0.29		0.27			
211.750	10.005	N	165.010	E	28.69	28.96		0.29		0.27			
211.792	10.010	N	165.025	E	28.72	28.98		0.29		0.26			
211.833	10.013	N	165.035	E	28.70	28.96		0.29		0.26			
211.875	10.018	N	165.045	E	28.68	28.94		0.29		0.26			
211.917	10.115	N	165.047	E	28.61	28.86		0.29		0.26			
211.958	10.393	N	165.010	E	28.64	28.96		0.29		0.32			

				RITS/CO2/TOGA 1987									
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag		
212.000	10.515	N	165.032	E 28.64		29.02		0.29		0.38			
212.042	10.738	N	165.012	E 28.75		29.17		0.29		0.41			
212.083	10.952	N	165.002	E 28.84		29.31		0.29		0.47			
212.125	11.165	N	164.982	E 28.84		29.38		0.29		0.54			
212.167	11.383	N	164.992	E 28.78		29.30		0.29		0.52			
212.208	11.593	N	165.010	E 28.78		29.23		0.29		0.45			
212.250	11.812	N	165.015	E 28.81		29.18		0.29		0.37			
212.292	12.002	N	164.992	E 28.91		29.26		0.29		0.35			
212.333	12.007	N	164.988	E 28.85		29.18		0.29		0.33			
212.375	11.998	N	164.992	E 28.85		29.13		0.29		0.28			
212.412	11.977	N	164.990	E 28.84		29.13		0.29		0.29			
212.458	11.958	N	164.993	E 28.75		29.05		0.29		0.29			
212.500	12.083	N	164.987	E 28.64		28.92		0.29		0.28			
212.542	12.278	N	164.982	E 28.52		28.86		0.29		0.34			
212.583	12.483	N	164.987	E 28.40		28.72		0.29		0.32			
212.625	12.667	N	164.993	E 28.38		28.66		0.29		0.28			
212.667	12.872	N	165.002	E 28.45		28.70		0.29		0.25			
212.708	13.065	N	165.000	E 28.45		28.71		0.29		0.26			
212.750	13.263	N	165.000	E 28.42		28.67		0.29		0.25			
212.792	13.463	N	165.003	E 28.39		28.64		0.29		0.25			
212.833	13.663	N	165.005	E 28.42		28.68		0.29		0.26			
212.875	13.867	N	164.998	E 28.39		28.71		0.29		0.32			
212.917	13.997	N	165.005	E 28.45		28.79		0.29		0.34			
212.958	13.998	N	165.002	E 28.49		28.88		0.29		0.39			
213.000	14.002	N	165.002	E 28.50		28.96		0.29		0.46			
213.042	13.998	N	165.005	E 28.49		29.01		0.29		0.52			
213.083	14.002	N	165.030	E 28.50		29.08		0.29		0.58			
213.125	14.008	N	165.032	E 28.49		29.09		0.29		0.59			
213.167	14.037	N	165.050	E 28.61		29.15		0.29		0.54			
213.208	14.232	N	165.050	E 28.72		29.24		0.29		0.52			
213.250	14.442	N	165.058	E 28.81		29.22		0.29		0.41			
213.292	14.640	N	165.053	E 28.81		29.02		0.29		0.21			
213.333	14.848	N	165.047	E 28.68		29.00		0.29		0.32			
213.375	15.055	N	165.038	E 28.63		28.94		0.29		0.31			
213.412	15.258	N	165.037	E 28.58		28.94		0.29		0.36			
213.458	15.468	N	165.020	E 28.58		28.87		0.29		0.28			
213.500	15.670	N	165.015	E 28.53		28.87		0.29		0.34			
213.542	15.882	N	164.990	E 28.59		28.87		0.29		0.29			
213.583	16.007	N	165.005	E 28.59	*	*		0.29		*			
213.625	16.013	N	165.017	E 28.54		*		0.29		*			
213.667	16.003	N	165.002	E 28.51		28.76		0.29		0.25			
213.708	16.005	N	165.002	E 28.49		28.74		0.29		0.25			
213.750	16.005	N	165.000	E 28.49		28.72		0.29		0.23			
213.792	16.000	N	164.998	E 28.45		28.69		0.29		0.24			
213.833	16.032	N	165.008	E 28.46		28.74		0.29		0.27			
213.875	16.202	N	165.012	E 28.50		28.79		0.29		0.29			
213.917	16.407	N	164.987	E 28.59		28.92		0.29		0.33			
213.958	16.613	N	164.987	E 28.58		28.96		0.29		0.38			
214.000	16.815	N	164.997	E 28.61		29.05		0.29		0.44			
214.042	17.028	N	164.992	E 28.65		29.17		0.29		0.52			

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Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
214.083	17.237	N	164.992	E	28.78	29.34		0.29		0.56	
214.125	17.440	N	164.993	E	28.93	29.45		0.29		0.53	
214.167	17.650	N	165.000	E	28.94	29.44		0.29		0.49	
214.208	17.848	N	165.007	E	28.91	29.37		0.29		0.46	
214.250	17.915	N	165.000	E	28.88	29.33		0.29		0.45	
214.292	18.002	N	164.997	E	28.83	29.26		0.29		0.43	
214.333	18.002	N	165.002	E	28.79	29.18		0.29		0.40	
214.375	17.993	N	165.010	E	28.73	29.10		0.29		0.37	
214.412	17.992	N	165.012	E	28.68	29.07		0.29		0.39	
214.458	17.990	N	165.022	E	28.64	29.02		0.29		0.38	
214.500	17.983	N	165.025	E	28.64	28.98		0.29		0.35	
214.542	17.988	N	165.027	E	28.68	28.96		0.29		0.28	
214.583	18.133	N	165.015	E	28.82	29.10		0.29		0.29	
214.625	18.133	N	164.998	E	28.85	29.09		0.29		0.24	
214.667	18.372	N	164.993	E	28.80	29.02		0.29		0.23	
214.708	18.633	N	165.000	E	28.88	29.13		0.29		0.25	
214.750	18.890	N	165.002	E	28.94	29.17		0.29		0.23	
214.792	19.145	N	165.002	E	28.93	29.15		0.29		0.22	
214.833	19.397	N	165.007	E	29.10	29.38		0.29		0.28	
214.875	19.650	N	165.012	E	29.39	29.65		0.28		0.27	
214.917	19.908	N	165.015	E	29.50	29.76		0.28		0.26	
214.958	20.162	N	165.017	E	29.44	29.75		0.28		0.31	
215.000	20.427	N	165.012	E	29.49	29.89		0.28		0.40	
215.042	20.688	N	165.000	E	29.58	30.05		0.28		0.47	
215.083	20.950	N	165.002	E	29.63	30.08		0.28		0.46	
215.125	20.993	N	165.023	E	29.69	30.17		0.28		0.48	
215.167	20.980	N	165.030	E	29.74	30.19		0.28		0.45	
215.208	20.985	N	165.035	E	29.74	30.12		0.28		0.38	
215.250	20.990	N	165.048	E	29.73	30.07		0.28		0.34	
215.292	20.993	N	165.060	E	29.71	29.99		0.28		0.28	
215.333	21.025	N	165.077	E	29.68	29.92		0.28		0.25	
215.375	21.232	N	165.073	E	29.63	29.83		0.28		0.20	
215.412	21.467	N	165.077	E	29.49	29.68		0.28		0.19	
215.458	21.710	N	165.063	E	29.42	29.60		0.28		0.18	
215.500	21.927	N	165.055	E	29.17	*		0.28		*	
215.542	22.165	N	165.027	E	29.13	*		0.28		*	
215.583	22.407	N	165.013	E	29.13	*		0.28		*	
215.625	22.648	N	165.012	E	29.20	29.46		0.28		0.26	
215.667	22.893	N	165.012	E	29.07	29.33		0.29		0.26	
215.708	23.140	N	165.012	E	28.99	29.24		0.29		0.25	
215.750	23.388	N	165.015	E	28.98	29.22		0.29		0.23	
215.792	23.635	N	165.008	E	28.91	29.15		0.29		0.25	
215.833	23.888	N	164.995	E	28.72	29.01		0.29		0.29	
215.875	24.003	N	165.003	E	28.85	29.10		0.29		0.25	
215.917	24.000	N	165.000	E	28.84	29.17		0.29		0.33	
215.958	24.003	N	165.000	E	28.84	29.21		0.29		0.37	
216.000	24.017	N	165.002	E	28.84	29.27		0.29		0.43	
216.042	24.017	N	165.002	E	28.84	29.31		0.29		0.47	
216.083	24.025	N	165.005	E	28.83	*		0.29		*	
216.125	24.023	N	165.002	E	28.84	*		0.29		*	

				RITS/CO2/TOGA 1987							
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216.167	24.157	N	165.000	E	28.97		29.35		0.29		0.38
216.208	24.382	N	164.995	E	29.00		29.40		0.29		0.39
216.250	24.597	N	164.990	E	28.93		29.32		0.29		0.39
216.292	24.805	N	165.000	E	28.92		29.33		0.29		0.41
216.333	25.020	N	165.002	E	28.75		29.10		0.29		0.35
216.375	25.232	N	165.002	E	28.73		29.05		0.29		0.31
216.412	25.430	N	164.992	E	28.57		28.96		0.29		0.40
216.458	25.640	N	164.998	E	28.57		28.87		0.29		0.30
216.500	25.845	N	165.007	E	28.62		28.93		0.29		0.31
216.542	26.008	N	165.003	E	28.62		28.91		0.29		0.29
216.583	26.027	N	165.003	E	28.60		28.89		0.29		0.29
216.625	26.013	N	164.998	E	28.57		28.87		0.29		0.30
216.667	26.002	N	164.985	E	28.56		28.85		0.29		0.29
216.708	26.017	N	165.005	E	28.54		28.83		0.29		0.29
216.750	26.022	N	165.012	E	28.54		28.82		0.29		0.28
216.792	26.023	N	165.020	E	28.52		28.80		0.29		0.29
216.833	26.035	N	165.037	E	28.50		28.79		0.29		0.28
216.875	26.002	N	165.002	E	28.51		28.82		0.29		0.31
216.917	26.005	N	165.002	E	28.54		28.87		0.29		0.33
216.958	26.003	N	165.002	E	28.55		28.94		0.29		0.39
217.000	26.007	N	165.000	E	28.58		29.00		0.29		0.42
217.042	26.008	N	165.003	E	28.60		29.09		0.29		0.49
217.083	26.015	N	165.010	E	28.61		29.12		0.29		0.51
217.125	26.030	N	165.012	E	28.63		29.15		0.29		0.52
217.167	26.022	N	165.000	E	28.63		29.19		0.29		0.56
217.208	26.092	N	165.025	E	28.66		29.12		0.29		0.46
217.250	26.273	N	165.020	E	28.67		29.09		0.29		0.42
217.292	26.492	N	165.003	E	28.64		29.02		0.29		0.38
217.333	26.703	N	164.997	E	28.65		28.97		0.29		0.32
217.375	26.917	N	165.018	E	28.24		28.65		0.29		0.41
217.412	27.112	N	164.988	E	28.14		28.47		0.30		0.33
217.458	27.307	N	164.972	E	28.02		28.36		0.30		0.34
217.500	27.510	N	164.955	E	28.00		28.27		0.30		0.27
217.542	27.713	N	164.972	E	28.14		28.43		0.30		0.29
217.583	27.915	N	164.995	E	28.02		28.34		0.30		0.32
217.625	28.018	N	165.007	E	27.97		28.29		0.30		0.31
217.667	28.035	N	165.002	E	27.93		28.24		0.30		0.31
217.708	28.045	N	165.012	E	27.87		28.16		0.30		0.29
217.750	28.057	N	165.002	E	27.81		28.10		0.30		0.29
217.792	28.062	N	165.032	E	27.77		28.05		0.30		0.29
217.833	28.065	N	165.048	E	27.76		28.05		0.30		0.29
217.875	28.070	N	165.045	E	27.81		28.10		0.30		0.30
217.917	28.315	N	165.047	E	27.94		28.28		0.30		0.34
217.958	28.518	N	165.047	E	27.86		28.27		0.30		0.41
218.000	28.720	N	165.043	E	27.82		28.23		0.30		0.41
218.042	28.920	N	165.037	E	27.92		28.39		0.30		0.47
218.083	29.123	N	165.027	E	28.01		28.47		0.30		0.46
218.125	29.327	N	165.022	E	28.07		28.55		0.30		0.47
218.167	29.528	N	165.005	E	28.10		28.56		0.30		0.46
218.208	29.727	N	165.003	E	28.11		28.52		0.30		0.41

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218.250	29.915	N	164.990	E	28.04	*		0.30			
218.292	30.008	N	164.985	E	27.99	28.33		0.30		0.34	
218.333	30.000	N	165.000	E	27.98	28.29		0.30		0.30	
218.375	30.007	N	165.032	E	27.94	28.21		0.30		0.28	
218.412	30.010	N	165.023	E	27.88	28.16		0.30		0.28	
218.458	30.010	N	165.027	E	27.86	28.12		0.30		0.26	
218.500	30.023	N	165.033	E	27.77	28.05		0.30		0.28	
218.542	30.045	N	165.032	E	27.68	27.99		0.30		0.31	
218.583	30.207	N	165.028	E	27.48	27.81		0.30		0.33	
218.625	30.402	N	165.028	E	27.18	27.56		0.31		0.39	
218.667	30.605	N	165.033	E	26.99	27.33		0.31		0.34	
218.708	30.798	N	165.038	E	27.04	27.32		0.31		0.28	
218.750	30.995	N	165.043	E	26.89	27.22		0.31		0.33	
218.792	31.170	N	165.003	E	26.92	27.19		0.31		0.27	
218.833	31.370	N	165.017	E	27.04	27.35		0.31		0.31	
218.875	31.568	N	165.030	E	26.86	27.27		0.31		0.42	
218.917	31.772	N	165.045	E	26.99	27.27		0.31		0.29	
218.958	31.975	N	165.008	E	27.07	27.50		0.31		0.43	
219.000	32.015	N	164.998	E	27.15	27.54		0.31		0.39	
219.042	32.023	N	164.993	E	27.31	27.71		0.31		0.39	
219.083	32.023	N	164.998	E	27.38	27.83		0.30		0.45	
219.125	32.082	N	164.942	E	27.38	27.82		0.30		0.44	
219.167	32.080	N	164.943	E	27.33	27.81		0.31		0.48	
219.208	32.098	N	164.888	E	27.24	27.69		0.31		0.45	
219.250	32.167	N	164.948	E	27.14	27.61		0.31		0.47	
219.292	32.370	N	164.943	E	26.92	27.27		0.31		0.34	
219.333	32.385	N	164.968	E	26.95	27.28		0.31		0.33	
219.375	32.720	N	165.008	E	27.01	27.25		0.31		0.24	
219.412	32.862	N	165.010	E	27.03	27.32		0.31		0.29	
219.458	33.003	N	164.993	E	26.98	27.24		0.31		0.26	
219.500	33.018	N	165.018	E	26.93	27.20		0.31		0.27	
219.542	33.017	N	165.010	E	26.90	27.15		0.31		0.26	
219.583	32.933	N	164.977	E	26.91	27.18		0.31		0.26	
219.625	32.997	N	165.065	E	26.91	27.14		0.31		0.24	
219.667	33.015	N	164.985	E	26.94	27.16		0.31		0.22	
219.708	33.022	N	164.982	E	26.91	27.15		0.31		0.23	
219.750	33.023	N	165.020	E	26.89	27.12		0.31		0.22	
219.792	33.017	N	165.017	E	26.84	27.06		0.31		0.22	
219.833	33.042	N	165.025	E	26.82	27.02		0.31		0.21	
219.875	33.043	N	165.033	E	26.83	27.05		0.31		0.22	
219.917	33.045	N	165.047	E	26.82	27.06		0.31		0.24	
219.958	33.155	N	165.048	E	26.77	27.06		0.31		0.29	
220.000	33.342	N	165.042	E	26.46	26.77		0.32		0.31	
220.042	33.537	N	165.025	E	26.11	26.55		0.32		0.44	
220.083	33.735	N	165.013	E	26.37	26.57		0.32		0.20	
220.125	33.932	N	165.008	E	26.48	26.95		0.31		0.47	
220.167	34.003	N	165.022	E	26.20	26.53		0.32		0.33	
220.208	34.007	N	165.027	E	26.19	26.51		0.32		0.32	
220.250	34.022	N	165.083	E	26.20	26.51		0.32		0.31	
220.292	34.015	N	165.072	E	26.20	26.47		0.32		0.27	

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220.333	34.013	N	165.003	E	26.20	26.41		0.32		0.21	
220.375	34.030	N	165.008	E	26.11	26.28		0.32		0.17	
220.412	34.005	N	165.002	E	26.16	26.32		0.32		0.16	
220.458	34.025	N	165.032	E	26.11	26.24		0.32		0.13	
220.500	34.033	N	165.055	E	26.04	26.21		0.32		0.18	
220.542	34.032	N	165.072	E	25.92	26.17		0.32		0.25	
220.583	34.037	N	165.088	E	25.85	26.12		0.32		0.26	
220.625	34.037	N	165.107	E	25.83	26.07		0.32		0.24	
220.667	34.057	N	165.125	E	25.61	25.92		0.32		0.32	
220.708	34.257	N	165.132	E	25.13	25.41		0.33		0.28	
220.750	34.470	N	165.130	E	24.98	25.28		0.33		0.30	
220.792	34.667	N	165.063	E	24.91	25.15		0.33		0.24	
220.833	34.855	N	164.980	E	24.46	24.79		0.34		0.33	
220.875	35.002	N	165.030	E	24.51	24.76		0.34		0.26	
220.917	34.990	N	164.992	E	24.51	24.77		0.34		0.26	
220.958	34.988	N	165.008	E	24.55	24.86		0.34		0.31	
221.000	34.978	N	165.028	E	24.55	24.93		0.34		0.37	
221.042	34.998	N	165.002	E	24.61	25.00		0.34		0.39	
221.083	34.998	N	165.002	E	24.67	25.14		0.34		0.47	
221.125	34.985	N	164.998	E	24.82	25.31		0.33		0.49	
221.167	34.977	N	164.997	E	24.95	25.40		0.33		0.46	
221.208	34.972	N	165.002	E	25.02	25.47		0.33		0.45	
221.250	34.972	N	165.002	E	24.92	25.33		0.33		0.41	
221.292	34.972	N	165.002	E	24.78	25.18		0.33		0.40	
221.333	34.953	N	165.032	E	24.81	25.11		0.33		0.30	
221.375	34.943	N	165.040	E	24.83	25.10		0.33		0.27	
221.412	34.928	N	165.060	E	24.81	25.06		0.33		0.25	
221.458	34.938	N	165.095	E	24.82	25.06		0.33		0.24	
221.500	34.998	N	164.997	E	24.65	24.94		0.34		0.28	
221.542	35.007	N	164.988	E	24.61	24.90		0.34		0.29	
221.583	35.013	N	164.982	E	24.62	24.92		0.34		0.30	
221.625	35.018	N	164.968	E	24.60	24.88		0.34		0.28	
221.667	35.015	N	164.952	E	24.56	24.82		0.34		0.26	
221.708	35.112	N	164.955	E	24.63	24.85		0.34		0.23	
221.750	35.313	N	164.957	E	24.55	24.80		0.34		0.24	
221.792	35.498	N	164.945	E	24.48	24.75		0.34		0.26	
221.833	35.532	N	165.045	E	24.28	24.55		0.34		0.27	
221.875	35.445	N	164.942	E	24.50	24.75		0.34		0.25	
221.917	35.525	N	165.005	E	24.33	24.82		0.34		0.29	
221.958	35.545	N	164.937	E	24.32	24.60		0.34		0.28	
222.000	35.720	N	164.958	E	24.01	24.38		0.34		0.37	
222.042	35.720	N	164.973	E	23.46	24.03		0.35		0.57	
222.083	35.883	N	165.000	E	23.33	23.82		0.35		0.49	
222.125	36.002	N	164.983	E	23.34	23.84		0.35		0.50	
222.167	35.993	N	164.958	E	23.35	23.81		0.35		0.47	
222.208	35.978	N	164.920	E	23.40	23.82		0.35		0.42	
222.250	35.973	N	164.910	E	23.41	23.80		0.35		0.39	
222.292	35.978	N	164.893	E	23.41	23.79		0.35		0.37	
222.333	35.983	N	164.873	E	23.42	23.76		0.35		0.33	
222.375	36.023	N	164.878	E	23.34	23.68		0.35		0.34	

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222.412	36.158	N	164.868	E 23.04		23.40		0.35		0.36	
222.458	36.330	N	164.912	E 22.59		22.99		0.36		0.40	
222.500	36.515	N	164.927	E 22.47		22.78		0.36		0.31	
222.542	36.512	N	164.977	E 22.43		22.76		0.36		0.33	
222.583	36.457	N	164.945	E 22.44		22.77		0.36		0.32	
222.625	36.642	N	164.958	E 22.07		22.44		0.36		0.36	
222.667	36.805	N	164.978	E 20.64		21.41		0.38		0.77	D
222.708	36.945	N	164.997	E 20.07		20.57		0.39		0.51	
222.750	37.022	N	165.022	E 19.80		20.11		0.39		0.32	
222.792	37.005	N	165.010	E 19.80		20.16		0.39		0.36	
222.833	37.017	N	165.000	E 19.60		20.04		0.39		0.44	
222.875	37.025	N	165.045	E 19.52		19.93		0.39		0.41	
222.917	37.043	N	165.065	E 19.63		19.99		0.39		0.36	
222.958	37.020	N	165.010	E 19.69		20.47		0.39		0.78	D
223.000	36.998	N	165.000	E 19.79		20.76		0.39		0.97	D
223.042	36.998	N	165.000	E 19.79		20.61		0.39		0.82	D
223.083	36.998	N	165.000	E 19.82		20.41		0.39		0.60	
223.125	37.028	N	165.035	E 19.85		20.35		0.39		0.49	
223.167	37.057	N	165.067	E 19.69		20.27		0.39		0.58	
223.208	37.237	N	165.058	E 18.85		19.51		0.40		0.66	
223.250	37.403	N	165.047	E 18.20		18.66		0.41		0.46	
223.292	37.570	N	165.023	E 18.11		18.50		0.41		0.39	
223.333	37.735	N	165.023	E 17.94		18.21		0.41		0.26	
223.375	37.897	N	165.008	E 18.54		18.61		0.40		0.07	D
223.412	38.022	N	165.000	E 19.24		19.40		0.40		0.16	
223.458	37.997	N	164.998	E 19.17		19.37		0.40		0.20	
223.500	37.985	N	165.018	E 19.15		19.36		0.40		0.20	
223.542	37.982	N	165.022	E 19.22		19.52		0.40		0.30	
223.583	37.988	N	164.998	E 19.20		19.53		0.40		0.32	
223.625	37.988	N	164.992	E 19.23		19.55		0.40		0.32	
223.667	37.995	N	164.978	E 19.31		19.63		0.40		0.32	
223.708	38.137	N	164.990	E 19.38		19.72		0.40		0.34	
223.750	38.353	N	164.993	E 18.44		18.95		0.41		0.52	
223.792	38.587	N	164.988	E 18.07		18.43		0.41		0.36	
223.833	38.837	N	164.987	E 17.98		18.44		0.41		0.46	
223.875	39.005	N	164.998	E 17.71		18.12		0.41		0.41	
223.917	39.020	N	165.005	E 17.73		18.17		0.41		0.43	
223.958	39.000	N	165.002	E 17.71		18.17		0.41		0.46	
224.000	39.000	N	165.000	E 17.76		18.23		0.41		0.47	
224.042	39.055	N	165.010	E 17.92		18.44		0.41		0.52	
224.083	39.203	N	165.023	E 17.13	H	19.33		0.42		.	
224.125	39.417	N	165.033	E 16.34		18.65		0.43		2.31	D
224.167	39.673	N	165.035	E 15.93		16.40		0.43		0.46	
224.208	39.923	N	165.010	E 16.28		16.61		0.43		0.33	
224.250	40.002	N	164.998	E 16.41		16.81		0.43		0.41	
224.292	40.013	N	164.985	E 16.40		16.78		0.43		0.38	
224.333	40.015	N	164.990	E 16.38		16.73		0.43		0.36	
224.375	40.017	N	165.008	E 16.37		16.72		0.43		0.35	
224.412	40.020	N	164.987	E 16.35		16.70		0.43		0.35	
224.458	40.028	N	164.987	E 16.36		16.69		0.43		0.33	

			RITS/CO2/TOGA 1987									
Date GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag		
224.500	40.038 N	164.982 E	16.36		16.68		0.43		0.32			
224.542	40.120 N	164.982 E	15.93		16.44		0.43		0.51			
224.583	40.253 N	164.982 E	15.99		16.24		0.43		0.24			
224.625	40.553 N	164.982 E	14.74		15.37		0.45		0.63			
224.667	40.785 N	164.978 E	13.94		14.50		0.46		0.56			
224.708	41.012 N	164.967 E	13.83		14.27		0.46		0.44			
224.750	41.212 N	164.995 E	12.95		13.50		0.47		0.55			
224.792	41.467 N	164.998 E	12.27		12.79		0.48		0.52			
224.833	41.695 N	165.012 E	11.62		12.27		0.48		0.65			
224.875	41.928 N	165.007 E	11.51		11.99		0.48		0.48			
224.917	42.002 N	164.993 E	11.64		12.17		0.48		0.53			
224.958	41.998 N	165.040 E	11.65		12.19		0.48		0.54			
225.000	42.002 N	165.003 E	11.74		12.25		0.48		0.52			
225.042	42.003 N	165.003 E	11.85		*		0.48		*			
225.083	41.993 N	165.022 E	11.90		*		0.48		*			
225.125	42.023 N	165.025 E	11.99		12.62		0.48		0.63			
225.167	42.228 N	165.032 E	11.87		12.57		0.48		0.70			
225.208	42.488 N	165.005 E	11.41		12.13		0.49		0.73			
225.250	42.735 N	164.988 E	11.11		11.74		0.49		0.63			
225.292	42.977 N	164.990 E	10.78		11.52		0.49		0.75			
225.333	43.232 N	164.992 E	10.43		10.91		0.50		0.48			
225.375	43.492 N	164.998 E	10.51		10.97		0.50		0.46			
225.412	43.682 N	165.000 E	10.45		10.94		0.50		0.49			
225.458	43.918 N	165.010 E	10.31		10.83		0.50		0.52			
225.500	43.995 N	164.982 E	10.20		10.69		0.50		0.49			
225.542	43.988 N	164.973 E	10.18		10.66		0.50		0.49			
225.583	43.972 N	164.942 E	10.14		10.67		0.50		0.53			
225.625	43.957 N	164.933 E	10.14		10.67		0.50		0.53			
225.667	43.953 N	164.928 E	10.18		10.68		0.50		0.50			
225.708	43.943 N	164.918 E	10.22		10.72		0.50		0.49			
225.750	43.943 N	164.940 E	10.23		10.77		0.50		0.54			
225.792	44.025 N	165.060 E	10.09		*		0.50		*			
225.833	44.082 N	165.278 E	10.15		*		0.50		*			
225.875	44.300 N	165.505 E	10.32		*		0.50		*			
225.917	44.428 N	165.740 E	10.81		*		0.49		*			
225.958	44.555 N	165.975 E	11.23		*		0.49		*			
226.000	44.677 N	166.198 E	10.95		*		0.49		*			
226.042	44.808 N	166.452 E	10.32		*		0.50		*			
226.083	44.925 N	166.652 E	10.14		*		0.50		*			
226.125	45.068 N	166.917 E	9.96		*		0.50		*			
226.167	45.027 N	167.155 E	9.82		*		0.50		*			
226.208	45.278 N	167.310 E	9.88		*		0.50		*			
226.250	45.272 N	167.312 E	9.84		*		0.50		*			
226.292	45.250 N	167.312 E	9.84		*		0.50		*			
226.333	45.275 N	167.295 E	9.84		*		0.50		*			
226.375	45.302 N	167.300 E	9.87		*		0.50		*			
226.412	45.305 N	167.305 E	9.91		*		0.50		*			
226.458	45.305 N	167.307 E	9.83		*		0.50		*			
226.500	45.285 N	167.298 E	9.79		*		0.50		*			
226.542	45.272 N	167.310 E	9.76		*		0.50		*			

RITS/CO2/TOGA 1987												
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
226.583	45.265	N	167.327	E	9.76		*	0.50			*	
226.625	45.282	N	167.302	E	9.81		*	0.50			*	
226.667	45.285	N	167.290	E	9.78		*	0.50			*	
226.708	45.265	N	167.322	E	9.73		*	0.50			*	
226.750	45.235	N	167.353	E	9.74		*	0.50			*	
226.792	45.220	N	167.358	E	9.72		*	0.50			*	
226.833	45.207	N	167.353	E	9.72		*	0.50			*	
226.875	45.192	N	167.360	E	9.71		*	0.50			*	
226.917	45.202	N	167.500	E	9.58		*	0.51			*	
226.958	45.145	N	167.402	E	9.66		*	0.50			*	
227.000	45.263	N	167.320	E	9.72		*	0.50			*	
227.042	45.278	N	167.318	E	9.70		*	0.50			*	
227.083	45.277	N	167.317	E	9.72		*	0.50			*	
227.125	45.308	N	167.320	E	9.76		*	0.50			*	
227.167	45.463	N	167.360	E	9.62		*	0.51			*	
227.208	45.688	N	167.308	E	9.39		*	0.51			*	
227.250	45.928	N	167.350	E	9.38		*	0.51			*	
227.292	46.192	N	167.320	E	9.31		*	0.51			*	
227.333	46.453	N	167.317	E	9.27		*	0.51			*	
227.375	46.498	N	167.328	E	9.30		*	0.51			*	
227.412	46.563	N	167.333	E	9.27		*	0.51			*	
227.458	46.740	N	167.327	E	9.26		*	0.51			*	
227.500	46.967	N	167.307	E	9.06		*	0.51			*	
227.542	47.180	N	167.288	E	8.84		*	0.51			*	
227.583	47.418	N	167.263	E	8.86		*	0.51			*	
227.625	47.670	N	167.298	E	8.82		*	0.51			*	
227.667	47.917	N	167.305	E	8.89		*	0.51			*	
227.708	47.997	N	167.315	E	8.97		*	0.51			*	
227.750	47.992	N	167.312	E	8.98		*	0.51			*	
227.792	47.965	N	167.337	E	8.96		*	0.51			*	
227.833	47.988	N	167.313	E	8.99		*	0.51			*	
227.875	47.985	N	167.298	E	8.99		*	0.51			*	
227.917	47.960	N	167.305	E	8.99		*	0.51			*	
227.958	47.953	N	167.308	E	8.95		*	0.51			*	
228.000	47.933	N	167.330	E	8.95		*	0.51			*	
228.042	47.958	N	167.310	E	8.92		*	0.51			*	
228.083	48.097	N	167.308	E	8.92		*	0.51			*	
228.125	48.298	N	167.310	E	8.79		*	0.51			*	
228.167	48.557	N	167.285	E	8.75		*	0.52			*	
228.208	48.803	N	167.287	E	8.77		*	0.51			*	
228.250	49.045	N	167.302	E	8.79		*	0.51			*	
228.292	49.285	N	167.312	E	8.85		*	0.51			*	
228.333	49.517	N	167.310	E	8.81		*	0.51			*	
228.375	49.753	N	167.307	E	8.60		*	0.52			*	
228.412	49.992	N	167.298	E	8.64		*	0.52			*	
228.458	49.990	N	167.308	E	8.62		*	0.52			*	
228.500	49.970	N	167.325	E	8.67		*	0.52			*	
228.542	49.963	N	167.343	E	8.75		*	0.52			*	
228.583	49.955	N	167.343	E	8.73		*	0.52			*	
228.625	49.937	N	167.370	E	8.66		*	0.52			*	

				RITS/CO2/TOGA 1987								
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
228.667	49.913	N	167.558 E	8.60	*			0.52			*	
228.708	49.923	N	167.855 E	8.60		*		0.52			*	
228.750	49.967	N	168.118 E	8.63		*		0.52			*	
228.792	49.992	N	168.477 E	8.63		*		0.52			*	
228.833	50.002	N	168.792 E	8.58		*		0.52			*	
228.875	50.005	N	169.087 E	8.60		*		0.52			*	
228.917	50.010	N	169.388 E	8.54		*		0.52			*	
228.958	50.008	N	169.682 E	8.48		*		0.52			*	
229.000	49.998	N	169.972 E	8.55		*		0.52			*	
229.042	49.997	N	170.235 E	8.57		*		0.52			*	
229.083	49.993	N	170.502 E	8.56		*		0.52			*	
229.125	49.992	N	170.827 E	8.59		*		0.52			*	
229.167	49.983	N	171.183 E	8.56		*		0.52			*	
229.208	49.987	N	171.528 E	8.58		*		0.52			*	
229.250	50.007	N	171.865 E	8.59		*		0.52			*	
229.292	50.008	N	172.190 E	8.46		*		0.52			*	
229.333	50.010	N	172.520 E	8.31		*		0.52			*	
229.375	50.015	N	172.858 E	8.17		*		0.52			*	
229.412	50.023	N	173.202 E	8.24		*		0.52			*	
229.458	50.025	N	173.545 E	8.30		*		0.52			*	
229.500	50.027	N	173.883 E	8.32		*		0.52			*	
229.542	50.028	N	173.995 E	8.35		*		0.52			*	
229.583	50.022	N	174.472 E	8.37		*		0.52			*	
229.625	50.005	N	174.912 E	8.51		*		0.52			*	
229.667	49.992	N	174.988 E	8.52		*		0.52			*	
229.708	49.800	N	175.025 E	8.57		*		0.52			*	
229.750	49.963	N	175.013 E	8.57		*		0.52			*	
229.792	49.940	N	175.018 E	8.58		*		0.52			*	
229.833	49.935	N	175.033 E	8.55		*		0.52			*	
229.875	49.933	N	175.043 E	8.55		*		0.52			*	
229.917	49.925	N	175.058 E	8.55		*		0.52			*	
229.958	49.933	N	175.113 E	8.55		*		0.52			*	
230.000	49.955	N	175.307 E	8.55		*		0.52			*	
230.042	49.972	N	175.613 E	8.56		*		0.52			*	
230.083	49.992	N	175.953 E	8.56		*		0.52			*	
230.125	50.002	N	176.300 E	8.67		*		0.52			*	
230.167	50.010	N	176.642 E	8.65		*		0.52			*	
230.208	50.008	N	176.990 E	8.59		*		0.52			*	
230.250	50.010	N	177.308 E	8.60		*		0.52			*	
230.292	50.000	N	177.573 E	8.51		*		0.52			*	
230.333	49.995	N	177.703 E	8.40		*		0.52			*	
230.375	50.010	N	178.088 E	8.40		*		0.52			*	
230.412	50.017	N	178.308 E	8.50		*		0.52			*	
230.458	50.025	N	178.467 E	8.51		*		0.52			*	
230.500	50.027	N	178.638 E	8.48		*		0.52			*	
230.542	50.023	N	178.768 E	8.45		*		0.52			*	
230.583	50.017	N	178.897 E	8.43		*		0.52			*	
230.625	50.018	N	179.005 E	8.37		*		0.52			*	
230.667	50.015	N	179.138 E	8.44		*		0.52			*	
230.708	50.012	N	179.282 E	8.49		*		0.52			*	

				RITS/CO2/TOGA 1987								
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warning	Flag	Point-by-point	Flag	
230.750	50.007	N	179.412	E	8.39		*	0.52			*	
230.792	50.017	N	179.538	E	8.33		*	0.52			*	
230.833	50.015	N	179.678	E	8.27		*	0.52			*	
230.875	50.005	N	179.865	E	8.17		*	0.52			*	
230.917	49.993	N	179.928	W	8.24		*	0.52			*	
230.958	49.987	N	179.730	W	8.59		*	0.52			*	
231.000	49.988	N	179.537	W	8.88		*	0.51			*	
231.042	50.000	N	179.358	W	9.04		*	0.51			*	
231.083	50.018	N	179.183	W	8.88		*	0.51			*	
231.125	50.033	N	178.998	W	8.88		*	0.51			*	
231.167	50.040	N	178.797	W	8.14		*	0.52			*	
231.208	50.017	N	178.607	W	8.19		*	0.52			*	
231.250	50.012	N	178.422	W	8.28		*	0.52			*	
231.292	49.995	N	178.222	W	8.46		*	0.52			*	
231.333	49.982	N	177.988	W	8.37		*	0.52			*	
231.375	49.968	N	177.745	W	8.03		*	0.52			*	
231.412	49.960	N	177.458	W	8.44		*	0.52			*	
231.458	49.922	N	177.097	W	8.54		*	0.52			*	
231.500	49.922	N	176.783	W	8.74		*	0.52			*	
231.542	49.920	N	176.467	W	8.42		*	0.52			*	
231.583	49.933	N	176.158	W	8.78	H	*	0.52			*	
231.625	49.942	N	175.862	W	9.13		*	0.51			*	
231.667	49.977	N	175.908	W	9.28		*	0.51			*	
231.708	50.013	N	175.275	W	8.90		*	0.51			*	
231.750	50.027	N	174.965	W	9.34		*	0.51			*	
231.792	50.030	N	174.658	W	9.35		*	0.51			*	
231.833	50.032	N	174.325	W	9.36		*	0.51			*	
231.875	50.018	N	173.965	W	9.38		*	0.51			*	
231.917	49.990	N	173.590	W	9.37		*	0.51			*	
231.958	49.968	N	173.193	W	9.41		*	0.51			*	
232.000	49.960	N	172.798	W	9.54		*	0.51			*	
232.042	49.943	N	172.355	W	9.68		*	0.50			*	
232.083	49.947	N	171.987	W	9.47		*	0.51			*	
232.125	49.955	N	171.590	W	9.47		*	0.51			*	
232.167	49.973	N	171.195	W	9.53		*	0.51			*	
232.208	49.988	N	170.788	W	9.63		*	0.51			*	
232.250	50.015	N	170.377	W	9.72		*	0.50			*	
232.292	50.030	N	169.998	W	9.71		*	0.50			*	
232.333	50.037	N	169.973	W	9.62		*	0.51			*	
232.375	50.060	N	169.958	W	9.64		*	0.51			*	
232.412	50.042	N	169.923	W	9.70		*	0.50			*	
232.458	49.998	N	169.957	W	9.68		*	0.50			*	
232.500	49.987	N	169.952	W	9.69		*	0.50			*	
232.542	49.983	N	169.948	W	9.69		*	0.50			*	
232.583	49.980	N	169.943	W	9.69		*	0.50			*	
232.625	49.978	N	169.920	W	9.70		*	0.50			*	
232.667	50.077	N	169.912	W	9.70		*	0.50			*	
232.708	50.277	N	169.887	W	9.65		*	0.50			*	
232.750	50.517	N	169.862	W	9.57		*	0.51			*	
232.792	50.765	N	169.832	W	9.53		*	0.51			*	

RITS/CO2/TOGA 1987												
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
232.833	51.012	N	169.793	W 9.52	*			0.51			*	
232.875	51.263	N	169.747	W 9.53	*			0.51			*	
232.917	51.512	N	169.705	W 9.53	*			0.51			*	
232.958	51.760	N	169.658	W 10.19	*			0.50			*	
233.000	52.005	N	169.615	W 10.84	*			0.49			*	
233.042	52.248	N	169.583	W 10.98	*			0.49			*	
233.083	52.498	N	169.522	W 10.87	*			0.49			*	
233.125	52.757	N	169.445	W 9.44	*			0.51			*	
233.167	53.015	N	169.292	W 7.16	*			0.53			*	
233.208	53.202	N	169.000	W 7.10	*			0.53			*	
233.250	53.380	N	168.742	W 7.14	*			0.53			*	
233.292	53.540	N	168.457	W 7.03	*			0.53			*	
233.333	53.662	N	168.142	W 7.71	*			0.53			*	
233.375	53.780	N	167.845	W 8.26	*			0.52			*	
233.412	53.878	N	167.528	W 8.05	*			0.52			*	
233.458	53.940	N	167.213	W 8.27	*			0.52			*	
233.500	54.050	N	166.883	W 8.12	*			0.52			*	
234.792	53.993	N	166.447	W 8.19	*			0.52			*	
234.833	54.043	N	166.175	W 7.72	*			0.53			*	
234.875	54.043	N	166.175	W 7.57	*			0.53			*	
234.917	53.672	N	165.725	W 9.88	*			0.50			*	
234.958	53.437	N	165.525	W 10.41	*			0.50			*	
235.000	53.200	N	165.330	W 10.94	*			0.49			*	
235.042	52.972	N	165.115	W 11.41	*			0.49			*	
235.083	52.737	N	164.883	W 10.87	*			0.49			*	
235.125	52.493	N	164.742	W 10.93	*			0.49			*	
235.167	52.253	N	164.550	W 10.55	*			0.49			*	
235.208	52.007	N	164.315	W 10.59	*			0.49			*	
235.250	51.783	N	164.078	W 10.54	*			0.49			*	
235.292	51.545	N	163.848	W 10.53	*			0.49			*	
235.333	51.315	N	163.618	W 10.63	*			0.49			*	
235.375	51.080	N	163.383	W 10.75	*			0.49			*	
235.412	50.847	N	163.153	W 10.74	*			0.49			*	
235.458	50.598	N	162.915	W 10.61	*			0.49			*	
235.500	50.340	N	162.722	W 10.81	*			0.49			*	
235.542	50.068	N	162.537	W 10.81	*			0.49			*	
235.583	50.000	N	162.505	W 10.81	*			0.49			*	
235.625	50.007	N	162.517	W 10.81	*			0.49			*	
235.667	50.023	N	162.527	W 10.74	*			0.49			*	
235.708	50.002	N	162.500	W 10.76	*			0.49			*	
235.750	49.997	N	162.512	W 10.74	*			0.49			*	
235.792	50.000	N	162.517	W 10.74	*			0.49			*	
235.833	50.022	N	162.510	W 10.71	*			0.49			*	
235.875	50.015	N	162.418	W 10.73	*			0.49			*	
235.917	50.022	N	162.172	W 10.75	*			0.49			*	
235.958	50.027	N	161.807	W 10.78	*			0.49			*	
236.000	50.038	N	161.402	W 10.85	*			0.49			*	
236.042	50.052	N	160.978	W 10.82	*			0.49			*	
236.083	50.052	N	160.548	W 10.99	*			0.49			*	

RITS/CO2/TOGA 1987											
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
236.125	50.050	N	160.113	W	11.09		*	0.49			*
236.167	50.045	N	159.812	W	11.15		*	0.49			*
236.208	50.030	N	159.255	W	11.32		*	0.49			*
236.250	50.010	N	158.838	W	11.48		*	0.48			*
236.292	49.992	N	158.420	W	11.54		*	0.48			*
236.333	49.987	N	157.990	W	11.46		*	0.48			*
236.375	49.988	N	157.700	W	11.43		*	0.48			*
236.412	49.997	N	157.123	W	11.46		*	0.48			*
236.458	49.993	N	156.697	W	11.46		*	0.48			*
236.500	49.993	N	156.268	W	11.60		*	0.48			*
236.542	49.990	N	155.853	W	11.58		*	0.48			*
236.583	49.998	N	155.438	W	11.68		*	0.48			*
236.625	50.008	N	154.998	W	11.62		*	0.48			*
236.667	50.007	N	154.982	W	11.63		*	0.48			*
236.708	50.012	N	154.967	W	11.52		*	0.48			*
236.750	50.008	N	154.943	W	11.57		*	0.48			*
236.792	50.007	N	154.930	W	11.58		*	0.48			*
236.833	50.003	N	154.917	W	11.58		*	0.48			*
236.875	49.998	N	154.782	W	11.79		*	0.48			*
236.917	49.995	N	154.488	W	11.90		*	0.48			*
236.958	49.995	N	154.100	W	11.98		*	0.48			*
237.000	49.988	N	153.688	W	11.99		*	0.48			*
237.042	49.985	N	153.272	W	12.20		*	0.48			*
237.083	49.990	N	152.862	W	12.28		*	0.48			*
237.125	49.995	N	152.435	W	12.42		*	0.47			*
237.167	50.003	N	152.010	W	12.36		*	0.47			*
237.208	50.002	N	151.573	W	12.33		*	0.47			*
237.250	50.008	N	151.140	W	12.38		*	0.47			*
237.292	50.028	N	150.737	W	12.43		*	0.47			*
237.333	50.022	N	150.323	W	12.54		*	0.47			*
237.375	50.018	N	150.057	W	12.64		*	0.47			*
237.412	50.023	N	149.493	W	12.73		*	0.47			*
237.458	50.000	N	149.118	W	12.85		*	0.47			*
237.500	49.970	N	148.832	W	13.04		*	0.47			*
237.542	49.983	N	148.300	W	13.21		*	0.46			*
237.583	49.998	N	147.890	W	13.28		*	0.48			*
237.625	49.997	N	147.482	W	13.28		*	0.46			*
237.667	49.995	N	147.072	W	13.22		*	0.46			*
237.708	49.967	N	146.645	W	13.12		*	0.47			*
237.750	49.982	N	146.217	W	13.08		*	0.47			*
237.792	49.990	N	145.788	W	13.11		*	0.47			*
237.833	49.998	N	145.352	W	13.08		*	0.47			*
237.875	49.998	N	145.003	W	13.27		*	0.46			*
237.917	49.995	N	145.002	W	13.28		*	0.46			*
237.958	49.998	N	145.010	W	13.33		*	0.46			*
238.000	49.997	N	144.998	W	13.33		*	0.46			*
238.042	49.990	N	145.008	W	13.31		*	0.46			*
238.083	49.975	N	145.015	W	13.24		*	0.46			*
238.125	49.973	N	145.018	W	13.20		*	0.46			*
238.167	50.002	N	145.000	W	13.27		*	0.46			*

RITS/CO2/TOGA 1987													
Date	GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
238.208		49.980	N	145.110	W	13.21			*	0.46			*
238.250		49.997	N	145.035	W	13.18			*	0.47			*
238.292		50.002	N	144.802	W	13.10			*	0.47			*
238.333		50.012	N	144.447	W	13.08			*	0.47			*
238.375		50.017	N	144.205	W	12.96			*	0.47			*
238.412		50.018	N	143.590	W	12.86			*	0.47			*
238.458		50.012	N	143.260	W	12.76			*	0.47			*
238.500		50.003	N	142.723	W	12.87			*	0.47			*
238.542		49.997	N	142.297	W	12.81			*	0.47			*
238.583		49.990	N	141.868	W	12.77			*	0.47			*
238.625		49.988	N	141.430	W	12.88			*	0.47			*
238.667		49.995	N	140.997	W	13.23			*	0.46			*
238.708		50.005	N	140.575	W	13.24			*	0.46			*
238.750		50.012	N	140.125	W	13.22			*	0.46			*
238.792		50.017	N	139.693	W	13.45			*	0.46			*
238.833		50.020	N	139.250	W	13.56			*	0.46			*
238.875		50.023	N	138.808	W	13.88			*	0.46			*
238.917		50.027	N	138.368	W	14.03			*	0.46			*
238.958		50.027	N	137.923	W	14.16			*	0.45			*
239.000		50.028	N	137.467	W	14.34			*	0.45			*
239.042		50.022	N	136.925	W	14.50			*	0.45			*
239.083		50.003	N	136.587	W	14.57			*	0.45			*
239.125		50.005	N	136.150	W	14.68			*	0.45			*
239.167		50.012	N	135.703	W	14.71			*	0.45			*
239.208		50.012	N	135.298	W	14.88			*	0.45			*
239.250		49.997	N	134.998	W	14.89			*	0.45			*
239.292		50.005	N	134.995	W	14.83			*	0.45			*
239.333		50.000	N	135.018	W	14.82			*	0.45			*
239.375		50.005	N	135.013	W	14.82			*	0.45			*
239.412		50.007	N	134.993	W	14.82			*	0.45			*
239.458		50.010	N	134.978	W	14.79			*	0.45			*
239.500		50.012	N	134.947	W	14.78			*	0.45			*
239.542		50.012	N	134.693	W	14.87			*	0.45			*
239.583		50.007	N	134.313	W	14.88			*	0.45			*
239.625		50.007	N	133.888	W	15.14			*	0.44			*
239.667		50.003	N	133.470	W	15.12			*	0.44			*
239.708		50.002	N	133.033	W	15.17			*	0.44			*
239.750		50.007	N	132.602	W	15.47			*	0.44			*
239.792		50.003	N	132.173	W	15.75			*	0.44			*
239.833		50.002	N	131.747	W	15.57			*	0.44			*
239.875		50.008	N	131.250	W	15.57			*	0.44			*
239.917		50.008	N	130.763	W	15.78			*	0.44			*
239.958		50.015	N	130.487	W	15.45			*	0.44			*
240.000		50.015	N	130.072	W	15.25			*	0.44			*
240.042		50.013	N	129.640	W	15.42			*	0.44			*
240.083		50.003	N	129.205	W	15.38			*	0.44			*
240.125		50.012	N	129.000	W	15.32			*	0.44			*
240.167		50.020	N	128.987	W	15.21			*	0.44			*
240.208		50.027	N	128.985	W	15.22			*	0.44			*
240.250		50.040	N	128.998	W	15.37			*	0.44			*

RITS/CO2/TOGA 1987												
Date GMT	Latitude		Longitude	Tes	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
240.292	50.013	N	128.985	W 15.32			*	0.44			*	
240.333	50.013	N	128.985	W 15.29			*	0.44			*	
240.375	50.030	N	128.978	W 15.35			*	0.44			*	
240.412	49.913	N	128.715	W 15.51			*	0.44			*	
240.458	49.777	N	128.388	W 15.45			*	0.44			*	
240.500	49.638	N	128.072	W 15.25			*	0.44			*	

## **RITS/CO<sub>2</sub>/EPOCS 1986**

					RITS/CO2/EPOCS 1986							
Date GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
143.833	0.967	N	90.615	W	23.65	R	24.30	D	0.65			*
143.875	0.867	N	90.850	W	23.83	R	24.48	D	0.65			*
143.917	0.767	N	91.067	W	23.75	R	24.40	D	0.65			*
143.958	0.650	N	91.383	W	24.11	R	24.76	D	0.65			*
144.000	0.583	N	91.550	W	23.85	R	24.50	D	0.65			*
144.042	0.520	N	91.772	W	23.81	R	24.46	D	0.65			*
144.083	0.498	N	91.882	W	23.78	R	24.43	D	0.65			*
144.125	0.417	N	92.083	W	23.74	R	24.39	D	0.65			*
144.167	0.350	N	92.350	W	23.71	R	24.36	D	0.65			*
144.208	0.233	N	92.500	W	23.67	R	24.32	D	0.65			*
144.250	0.205	N	92.738	W	23.63	R	24.28	D	0.65			*
144.292	0.197	N	92.990	W	23.60	R	24.25	D	0.65			*
144.333	0.172	N	93.238	W	23.56	R	24.21	D	0.65			*
144.375	0.132	N	93.492	W	23.58	R	24.23	D	0.65			*
144.417	0.100	N	93.750	W	23.64	R	24.29	D	0.65			*
144.458	0.050	N	93.867	W	23.82	R	24.47	D	0.65			*
144.500	0.033	N	94.150	W	24.15	R	24.80	D	0.65			*
144.542	0.017	N	94.500	W	24.35	R	25.00	D	0.65			*
144.583	0.003	N	94.750	W	24.56	R	25.20	D	0.64			*
144.625	0.003	N	94.968	W	24.61		25.30	D	0.66		0.69	
144.667	0.012	S	94.973	W	24.66		25.30	D	0.66		0.64	
144.708	0.035	S	94.962	W	24.72		25.44	D	0.66		0.72	
144.750	0.042	S	94.960	W	24.80		25.60	D	0.66		0.80	
144.792	0.040	S	94.952	W	24.89		25.66	D	0.66		0.77	
144.833	0.032	S	94.930	W	24.92		25.70	D	0.66		0.78	
144.875	0.033	S	95.023	W	24.93		25.65	D	0.66		0.72	
144.917	0.013	S	95.282	W	24.97		25.57	D	0.66		0.60	
144.958	0.027	S	95.600	W	25.03		25.49	D	0.66		0.46	
145.000	0.028	S	95.637	W	24.94		25.40	D	0.66		0.46	
145.042	0.030	S	95.763	W	24.77		25.32	D	0.66		0.55	
145.083	0.022	S	96.035	W	24.59		25.13	D	0.66		0.54	
145.125	0.017	S	96.267	W	24.51		25.00	D	0.67		0.49	
145.167	0.000	N	96.517	W	24.53		25.00	D	0.67		0.47	
145.208	0.000	N	96.767	W	24.58		25.05	D	0.66		0.47	
145.250	0.000	N	97.000	W	24.57		25.15	D	0.66		0.58	
145.292	0.004	N	97.517	W	24.65		25.26	D	0.66		0.61	
145.333	0.003	N	97.758	W	24.67		25.53	D	0.66		0.86	
145.375	0.002	N	97.998	W	24.68		25.80	D	0.66		1.12	D
145.417	0.000	N	98.250	W	24.77		25.35	D	0.66		0.58	
145.458	0.000	N	98.417	W	24.80		25.30	D	0.66		0.50	
145.500	0.012	N	98.687	W	24.78		25.30	D	0.66		0.52	
145.542	0.017	S	98.950	W	24.75		25.30	D	0.66		0.55	
145.583	0.002	S	99.167	W	24.81		25.50	D	0.66		0.69	
145.625	0.000	N	99.400	W	24.85		25.50	D	0.66		0.65	
145.667	0.000	N	99.617	W	24.90		25.70	D	0.66		0.80	
145.708	0.000	N	99.867	W	24.89		25.70	D	0.66		0.81	
145.750	0.000	N	99.985	W	24.93		25.70	D	0.66		0.77	
145.792	0.000	N	99.973	W	24.99		25.71	D	0.66		0.72	
145.833	0.022	N	99.962	W	24.97		25.79	D	0.66		0.82	
145.875	0.032	N	100.087	W	24.97		25.80	D	0.66		0.83	

RITS/CO2/EPOCS 1986												
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
145.917	0.013	S	100.328	W	24.99	25.77	D	0.66		0.78		
145.958	0.005	S	100.527	W	24.99	25.73	D	0.66		0.74		
146.000	0.005	N	100.688	W	25.05	25.70	D	0.66		0.65		
146.042	0.012	S	101.127	W	25.10	25.70	D	0.66		0.60		
146.083	0.010	S	101.167	W	25.11	25.70	D	0.66		0.59		
146.125	0.017	S	101.333	W	24.92	25.51	D	0.66		0.59		
146.167	0.017	S	101.567	W	24.82	25.40	D	0.66		0.58		
146.208	0.013	S	101.800	W	24.52	25.11	D	0.67		0.59		
146.250	0.013	S	102.013	W	24.35	24.92	D	0.67		0.57		
146.292	0.015	S	102.118	W	24.28	24.96	D	0.67		0.68		
146.333	0.005	N	102.447	W	24.11	25.00	D	0.67		0.89		
146.375	0.007	N	102.515	W	24.22	24.91	D	0.67		0.69		
146.417	0.000	N	102.800	W	24.19	24.81	D	0.67		0.62		
146.458	0.000	N	103.133	W	24.30	24.80	D	0.67		0.50		
146.500	0.000	N	103.300	W	24.23	24.80	D	0.67		0.57		
146.542	0.000	N	103.500	W	24.26	24.85	D	0.67		0.59		
146.583	0.000	N	103.717	W	24.32	24.90	D	0.67		0.58		
146.625	0.003	N	103.933	W	24.38	24.99	D	0.67		0.61		
146.667	0.010	N	104.150	W	24.38	25.00	D	0.67		0.62		
146.708	0.025	N	104.350	W	24.52	25.30	D	0.67		0.78		
146.750	0.025	N	104.595	W	24.52	25.30	D	0.67		0.78		
146.792	0.013	N	104.815	W	24.48	25.30	D	0.67		0.82		
146.833	0.002	N	105.000	W	24.52	25.30	D	0.67		0.78		
146.875	0.018	N	104.973	W	25.02	25.30	D	0.66		0.28		
146.917	0.033	N	104.940	W	24.62	25.30	D	0.66		0.68		
146.958	0.017	N	104.967	W	24.51	25.30	D	0.67		0.79		
147.000	0.017	N	105.167	W	24.47	25.30	D	0.67		0.83		
147.042	0.033	N	105.383	W	24.42	25.40	D	0.67		0.98		
147.083	0.017	N	105.567	W	24.49	25.10	D	0.67		0.61		
147.125	0.017	N	105.817	W	24.52	25.10	D	0.67		0.58		
147.167	0.000	N	106.055	W	24.53	25.08	D	0.67		0.55		
147.208	0.002	N	106.250	W	24.50	25.00	D	0.67		0.50		
147.250	0.007	N	106.477	W	24.63	25.17	D	0.66		0.54		
147.292	0.002	N	106.693	W	24.69	25.20	D	0.66		0.51		
147.333	0.002	N	106.927	W	24.69	25.20	D	0.66		0.51		
147.375	0.003	N	107.145	W	24.73	25.17	D	0.66		0.44		
147.417	0.000	N	107.383	W	24.74	25.13	D	0.66		0.39		
147.458	0.017	S	107.600	W	24.65	25.10	D	0.66		0.45		
147.500	0.000	N	107.833	W	24.49	25.10	D	0.67		0.61		
147.542	0.000	N	108.033	W	24.44	25.10	D	0.67		0.66		
147.583	0.008	S	108.033	W	24.42	25.00	D	0.67		0.58		
147.625	0.003	S	108.017	W	24.41	25.00	D	0.67		0.59		
147.667	0.007	S	108.003	W	24.41	25.00	D	0.67		0.59		
147.708	0.005	S	107.983	W	24.47	25.00	D	0.67		0.53		
147.750	0.002	S	107.995	W	24.56	25.27	D	0.66		0.71		
147.792	0.007	N	107.985	W	24.61	25.22	D	0.66		0.81		
147.833	0.005	S	107.988	W	24.65	25.40	D	0.66		0.75		
147.875	0.033	S	107.988	W	24.76	25.40	D	0.66		0.64		
147.917	0.017	S	108.000	W	24.70	25.40	D	0.66		0.70		
147.958	0.017	S	108.000	W	24.66	25.33	D	0.66		0.67		

RITS/CO2/EPOCS 1986											
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
148.000	0.000	N	107.967	W	24.64	25.25	D	0.66		0.61	
148.042	0.000	N	107.967	W	24.51	25.17	D	0.67		0.66	
148.083	0.028	S	107.945	W	24.56	25.08	D	0.66		0.52	
148.125	0.042	S	107.922	W	24.49	25.00	D	0.67		0.51	
148.167	0.048	S	107.905	W	24.46	24.98	D	0.67		0.52	
148.208	0.052	S	107.895	W	24.49	24.89	D	0.67		0.40	
148.250	0.058	S	107.888	W	24.45	24.81	D	0.67		0.36	
148.292	0.105	S	107.915	W	24.35	24.73	D	0.67		0.38	
148.333	0.302	S	108.035	W	24.15	24.65	D	0.67		0.50	
148.375	0.490	S	108.160	W	24.06	24.60	D	0.67		0.54	
148.417	0.667	S	108.300	W	24.11	24.56	D	0.67		0.45	
148.458	0.867	S	108.383	W	24.08	24.50	D	0.67		0.42	
148.500	1.067	S	108.550	W	24.19	24.66	D	0.67		0.47	
148.542	1.217	S	108.650	W	24.32	24.90	D	0.67		0.58	
148.583	1.433	S	108.883	W	24.34	24.90	D	0.67		0.56	
148.625	1.617	S	109.017	W	24.51	25.00	D	0.67		0.49	
148.667	1.783	S	109.150	W	24.77	25.30	D	0.66		0.53	
148.708	1.975	S	109.302	W	24.90	25.70	D	0.66		0.80	
148.750	2.168	S	109.343	W	25.09	25.49	D	0.66		0.40	
148.792	2.367	S	109.457	W	25.28	26.00	D	0.66		0.72	
148.833	2.568	S	109.765	W	25.45	26.13	D	0.66		0.68	
148.875	2.780	S	109.893	W	25.44	26.20	D	0.66		0.76	
148.917	2.967	S	110.000	W	25.43	26.20	D	0.66		0.77	
148.958	3.000	S	110.000	W	25.48	26.15	D	0.66		0.67	
149.000	2.905	S	110.000	W	25.42	26.10	D	0.66		0.68	
149.042	2.660	S	110.000	W	25.40	26.05	D	0.66		0.65	
149.083	2.500	S	109.983	W	25.41	26.00	D	0.66		0.59	
149.125	2.500	S	110.000	W	25.40	25.95	D	0.66		0.55	
149.167	2.417	S	109.983	W	25.31	25.89	D	0.66		0.58	
149.208	2.217	S	109.983	W	25.18	25.74	D	0.66		0.56	
149.250	2.043	S	109.950	W	25.05	25.60	D	0.66		0.55	
149.292	2.075	S	109.925	W	25.02	25.57	D	0.66		0.55	
149.333	2.063	S	109.922	W	25.02	25.55	D	0.66		0.53	
149.375	2.060	S	109.905	W	25.01	25.52	D	0.66		0.51	
149.417	2.067	S	109.900	W	24.96	25.50	D	0.66		0.54	
149.458	2.067	S	109.933	W	24.97	25.47	D	0.66		0.50	
149.500	2.033	S	110.067	W	24.90	25.45	D	0.66		0.55	
149.542	2.133	S	110.000	W	24.80	25.42	D	0.66		0.62	
149.583	2.133	S	109.967	W	24.74	25.40	D	0.66		0.66	
149.625	2.050	S	109.950	W	24.78	25.30	D	0.66		0.52	
149.667	1.983	S	110.000	W	24.74	25.30	D	0.66		0.56	
149.708	2.083	S	109.917	W	24.81	25.47	D	0.66		0.66	
149.750	1.988	S	110.032	W	24.81	25.59	D	0.66		0.78	
149.792	2.088	S	109.998	W	24.90	25.77	D	0.66		0.87	
149.833	2.068	S	109.960	W	24.92	25.80	D	0.66		0.88	
149.875	2.063	S	109.957	W	24.96	25.80	D	0.66		0.84	
149.917	2.050	S	109.950	W	24.96	25.74	D	0.66		0.78	
149.958	2.033	S	109.967	W	24.96	25.70	D	0.66		0.74	
150.000	2.017	S	109.983	W	24.97	25.66	D	0.66		0.69	
150.042	2.033	S	109.950	W	24.98	25.58	D	0.66		0.60	

RITS/CO2/EPOCS 1986											
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
150.083	1.983	S	109.967	W	24.92		25.51	D	0.66		0.59
150.125	1.983	S	109.967	W	24.90		25.50	D	0.66		0.60
150.167	1.800	S	109.967	W	24.81		25.39	D	0.66		0.58
150.208	1.583	S	109.983	W	24.63		25.22	D	0.66		0.59
150.250	1.058	S	109.985	W	24.57		25.08	D	0.66		0.51
150.292	1.495	S	109.977	W	24.52		24.94	D	0.67		0.42
150.333	1.268	S	109.968	W	24.27		24.81	D	0.67		0.54
150.375	1.042	S	109.993	W	24.10		24.68	D	0.67		0.58
150.417	1.000	S	109.983	W	24.01		24.53	D	0.67		0.52
150.458	1.033	S	109.933	W	24.01		24.42	D	0.67		0.41
150.500	0.867	S	109.950	W	23.82		24.30	D	0.67		0.48
150.542	0.667	S	109.983	W	23.82		24.36	D	0.67		0.54
150.583	0.500	S	109.983	W	23.83		24.37	D	0.67		0.54
150.625	0.333	S	109.983	W	23.81		24.31	D	0.67		0.50
150.667	0.100	S	109.983	W	23.90		24.52	D	0.67		0.62
150.708	0.017	S	109.917	W	24.04		24.63	D	0.67		0.59
150.750	0.017	S	109.942	W	24.10		24.70	D	0.67		0.60
150.792	0.025	S	110.002	W	24.17		24.83	D	0.67		0.66
150.833	0.028	S	109.992	W	24.20		24.96	D	0.67		0.76
150.875	0.032	S	109.980	W	24.28		25.00	D	0.67		0.72
150.917	0.033	S	109.967	W	24.36		25.00	D	0.67		0.64
150.958	0.067	S	109.967	W	24.29		25.00	D	0.67		0.71
151.000	0.233	S	109.967	W	24.10		24.84	D	0.67		0.74
151.042	0.500	S	110.000	W	24.01		24.65	D	0.67		0.64
151.083	0.517	S	109.967	W	23.98		24.60	D	0.67		0.62
151.125	0.417	S	109.950	W	23.92		24.53	D	0.67		0.61
151.167	0.233	S	109.967	W	23.98		24.54	D	0.67		0.56
151.208	0.050	S	110.000	W	24.14		24.77	D	0.67		0.63
151.250	0.013	S	109.985	W	24.21		24.79	D	0.67		0.58
151.292	0.015	S	109.968	W	24.20		24.77	D	0.67		0.57
151.333	0.007	S	109.953	W	24.20		24.75	D	0.67		0.55
151.375	0.007	S	109.950	W	24.17		24.74	D	0.67		0.57
151.417	0.020	S	109.948	W	24.21		24.72	D	0.67		0.51
151.458	0.050	S	109.917	W	24.20		24.70	D	0.67		0.50
151.500	0.067	S	109.917	W	24.13		24.70	D	0.67		0.57
151.542	0.083	S	109.910	W	24.06		24.74	D	0.67		0.68
151.583	0.083	S	109.900	W	24.05		24.82	D	0.67		0.77
151.625	0.017	S	109.950	W	24.11		24.89	D	0.67		0.78
151.667	0.033	N	110.033	W	24.19		24.99	D	0.67		0.80
151.708	0.017	N	110.033	W	24.25		25.00	D	0.67		0.75
151.750	0.017	N	110.050	W	24.37		25.00	D	0.67		0.63
151.792	0.015	N	110.058	W	24.49		25.13	D	0.67		0.64
151.833	0.002	S	110.057	W	24.55		25.28	D	0.66		0.73
151.875	0.018	S	110.050	W	24.60		25.40	D	0.66		0.80
151.917	0.010	S	110.048	W	24.69		25.40	D	0.66		0.71
151.958	0.050	S	110.027	W	24.61		25.40	D	0.66		0.79
152.000	0.033	N	110.017	W	24.76		25.47	D	0.66		0.71
152.042	0.250	N	110.000	W	24.95		25.50	D	0.66		0.55
152.083	0.457	N	109.985	W	25.19		25.80	D	0.66		0.61
152.125	0.487	N	109.988	W	25.15		25.70	D	0.66		0.55

RITS/CO2/EPOCS 1986										
Date GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
152.167	0.483	N 109.850	W 25.16		25.70	D	0.66		0.54	
152.208	0.683	N 109.983	W 25.19		25.70	D	0.66		0.51	
152.250	0.933	N 110.000	W 25.37		25.90	D	0.66		0.53	
152.292	0.995	N 109.995	W 25.43		25.81	D	0.66		0.38	
152.333	1.040	N 109.992	W 25.50		26.07	D	0.66		0.57	
152.375	1.290	N 110.003	W 25.87		26.33	D	0.66		0.46	
152.417	1.487	N 109.990	W 26.10		26.52	D	0.65		0.42	
152.458	1.483	N 109.950	W 26.08		26.56	D	0.65		0.48	
152.500	1.583	N 110.017	W 26.16		26.60	D	0.65		0.44	
152.542	1.833	N 110.667	W 26.17		26.65	D	0.65		0.48	
152.583	2.000	N 110.000	W 26.20		26.71	D	0.65		0.51	
152.625	2.000	N 110.000	W 26.17		26.77	D	0.65		0.60	
152.667	2.000	N 109.983	W 26.16		26.84	D	0.65		0.68	
152.708	2.000	N 110.000	W 26.18		26.93	D	0.65		0.75	
152.750	2.000	N 110.000	W 26.22		27.06	D	0.65		0.84	
152.792	2.050	N 110.017	W 26.27		27.15	D	0.65		0.88	
152.833	2.300	N 110.002	W 26.29		27.24	D	0.65		0.95	
152.875	2.493	N 109.998	W 26.34		27.11	D	0.65		0.77	
152.917	2.488	N 110.000	W 26.34		27.30	D	0.65		0.96	
152.958	2.667	N 109.983	W 26.49		27.30	D	0.65		0.81	
153.000	2.917	N 110.000	W 26.62		27.30	D	0.65		0.68	
153.042	3.000	N 110.000	W 26.72		27.26	D	0.65		0.54	
153.083	3.000	N 109.983	W 26.68		27.21	D	0.65		0.53	
153.125	2.850	N 110.133	W 26.61		27.10	D	0.65		0.49	
153.167	2.833	N 110.233	W 26.48		26.92	D	0.65		0.44	
153.208	2.800	N 110.333	W 26.36		26.79	D	0.65		0.43	
153.250	2.567	N 110.650	W 26.25		26.67	D	0.65		0.42	
153.292	2.458	N 110.898	W 26.20		26.65	D	0.65		0.45	
153.333	2.350	N 111.038	W 26.17		26.58	D	0.65		0.41	
153.375	2.240	N 111.243	W 26.00		26.38	D	0.65		0.38	
153.417	2.063	N 111.475	W 25.88		26.13	D	0.66		0.25	
153.458	1.983	N 111.683	W 25.78		26.00	D	0.66		0.22	
153.500	1.833	N 111.867	W 25.29		25.74	D	0.66		0.45	
153.542	1.767	N 112.133	W 24.58		25.28	D	0.66		0.70	
153.583	1.650	N 112.217	W 24.49		25.00	D	0.67		0.51	
153.625	1.467	N 112.467	W 24.21		24.94	D	0.67		0.73	
153.667	1.408	N 112.690	W 24.17		24.99	D	0.67		0.82	
153.708	1.317	N 112.883	W 24.22		25.30	D	0.67		1.08	
153.750	1.210	N 113.080	W 24.33		25.07	D	0.67		0.74	
153.792	1.100	N 113.252	W 24.54		25.30	D	0.66		0.76	
153.833	0.977	N 113.433	W 24.55		25.30	D	0.66		0.75	
153.875	0.858	N 113.603	W 24.67		25.39	D	0.66		0.72	
153.917	0.753	N 113.785	W 24.84		25.58	D	0.66		0.74	
153.958	0.583	N 114.033	W 24.85		25.60	D	0.66		0.75	
154.000	0.550	N 114.117	W 24.86		25.60	D	0.66		0.74	
154.042	0.450	N 114.283	W 24.77		25.49	D	0.66		0.72	
154.083	0.345	N 114.610	W 24.71		25.40	D	0.66		0.69	
154.125	0.167	N 114.683	W 24.71		25.36	D	0.66		0.65	
154.167	0.133	N 114.867	W 24.57		25.20	D	0.66		0.63	
154.208	0.067	N 114.875	W 24.56		25.20	D	0.66		0.64	

RITS/CO2/EPOCS 1986											
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
154.250	0.000	N	114.967	W	24.53	25.19	D	0.67		0.66	
154.292	0.072	N	114.905	W	24.51	25.17	D	0.67		0.66	
154.333	0.038	N	114.943	W	24.49	25.15	D	0.67		0.66	
154.375	0.058	N	114.937	W	24.45	25.14	D	0.67		0.69	
154.417	0.070	N	114.923	W	24.43	25.12	D	0.67		0.69	
154.458	0.083	N	114.933	W	24.40	25.10	D	0.67		0.70	
154.500	0.083	N	114.900	W	24.38	25.10	D	0.67		0.72	
154.542	0.067	N	115.050	W	24.44	25.05	D	0.67		0.61	
154.583	0.050	N	115.167	W	24.48	25.00	D	0.67		0.52	
154.625	0.000	N	115.483	W	24.50	25.09	D	0.67		0.59	
154.667	0.000	N	115.667	W	24.52	25.10	D	0.67		0.58	
154.708	0.005	N	115.890	W	24.54	25.20	D	0.66		0.66	
154.750	0.023	N	116.122	W	24.45	25.24	D	0.67		0.79	
154.792	0.018	N	116.323	W	24.41	25.30	D	0.67		0.89	
154.833	0.002	N	116.548	W	24.63	25.41	D	0.66		0.78	
154.875	0.008	S	116.527	W	24.81	25.44	D	0.66		0.63	
154.917	0.020	N	116.493	W	24.83	25.47	D	0.66		0.64	
154.958	0.067	N	116.417	W	24.78	25.50	D	0.66		0.72	
155.000	0.200	N	116.250	W	24.62	25.30	D	0.66		0.68	
155.042	0.367	N	116.050	W	24.59	25.26	D	0.66		0.67	
155.083	0.550	N	115.783	W	24.53	25.10	D	0.67		0.57	
155.125	0.727	N	115.575	W	24.47	25.10	D	0.67		0.63	
155.167	0.898	N	115.342	W	24.53	25.10	D	0.67		0.57	
155.208	1.067	N	115.110	W	24.63	25.15	D	0.66		0.52	
155.250	1.233	N	114.967	W	24.87	25.21	D	0.66		0.34	
155.292	1.400	N	114.615	W	25.39	25.30	D	0.66		-0.09	
155.333	1.568	N	114.418	W	25.54	25.39	D	0.66		-0.15	D
155.375	1.722	N	114.185	W	25.60	25.48	D	0.66		-0.12	
155.417	1.892	N	113.973	W	25.52	25.57	D	0.66		0.05	
155.458	2.150	N	113.750	W	25.35	25.66	D	0.66		0.31	
155.500	2.250	N	113.617	W	25.16	25.70	D	0.66		0.54	
155.542	2.433	N	113.333	W	25.11	25.60	D	0.66		0.49	
155.583	2.583	N	113.183	W	25.04	25.50	D	0.66		0.46	
155.625	2.783	N	112.783	W	25.46	26.20	D	0.66		0.74	
155.667	2.950	N	112.700	W	26.43	27.08	D	0.65		0.65	
155.708	3.125	N	112.513	W	26.88	27.33	D	0.65		0.45	
155.750	3.297	N	112.298	W	26.93	27.50	D	0.65		0.57	
155.792	3.458	N	112.085	W	27.05	27.67	D	0.65		0.62	
155.833	3.617	N	111.865	W	27.31	28.00	D	0.64		0.69	
155.875	3.760	N	111.635	W	27.41	28.00	D	0.64		0.59	
155.917	3.788	N	111.615	W	27.48	28.00	D	0.64		0.52	
155.958	4.067	N	111.283	W	27.51	28.10	D	0.64		0.59	
156.000	4.217	N	110.983	W	27.46	28.03	D	0.64		0.57	
156.042	4.550	N	110.817	W	27.43	27.90	D	0.64		0.47	
156.083	4.567	N	110.567	W	27.57	28.00	D	0.64		0.43	
156.125	4.733	N	110.367	W	27.60	28.10	D	0.64		0.50	
156.167	4.750	N	110.167	W	27.63	28.10	D	0.64		0.47	
156.208	5.083	N	109.900	W	27.60	28.10	D	0.64		0.50	
156.250	5.067	N	109.983	W	27.57	28.10	D	0.64		0.53	
156.292	5.078	N	109.987	W	27.57	28.10	D	0.64		0.53	

				RITS/CO2/EPOCS 1986							
Date GMT	Latitude	Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
156.333	5.078 N	109.985 W	27.58	28.10	D	0.64				0.52	
156.375	5.078 N	109.978 W	27.57	28.10	D	0.64				0.53	
156.417	5.075 N	109.962 W	27.58	28.10	D	0.64				0.52	
156.458	5.067 N	109.967 W	27.58	28.10	D	0.64				0.52	
156.500	5.083 N	109.967 W	27.55	28.10	D	0.64				0.55	
156.542	5.100 N	109.983 W	27.49	28.10	D	0.64				0.61	
156.583	5.050 N	110.017 W	27.50	28.10	D	0.64				0.60	
156.625	5.017 N	110.002 W	27.50	28.10	D	0.64				0.60	
156.667	4.987 N	109.987 W	27.51	28.15	D	0.64				0.64	
156.708	4.992 N	110.065 W	27.51	28.20	D	0.64				0.69	
156.750	4.997 N	110.065 W	27.52	28.20	D	0.64				0.68	
156.792	5.000 N	110.012 W	27.55	28.28	D	0.64				0.73	
156.833	5.008 N	110.042 W	27.57	28.39	D	0.64				0.82	
156.875	5.013 N	111.018 W	27.59	28.50	D	0.64				0.91	
156.917	4.957 N	110.145 W	27.63	28.50	D	0.64				0.87	
156.958	4.850 N	110.383 W	27.61	28.50	D	0.64				0.89	
157.000	4.733 N	110.617 W	27.65	28.34	D	0.64				0.69	
157.042	4.617 N	110.950 W	27.56	28.17	D	0.64				0.61	
157.083	4.495 N	111.085 W	27.46	28.07	D	0.64				0.61	
157.125	4.350 N	111.350 W	27.44	28.01	D	0.64				0.57	
157.167	4.250 N	111.550 W	27.38	27.96	D	0.64				0.58	
157.208	4.133 N	111.233 W	27.33	27.91	D	0.64				0.58	
157.250	4.033 N	112.017 W	27.17	27.73	D	0.65				0.56	
157.292	3.895 N	112.262 W	27.05	27.50	D	0.65				0.45	
157.333	3.770 N	112.498 W	27.19	27.64	D	0.65				0.45	
157.375	3.640 N	112.748 W	27.19	27.78	D	0.65				0.59	
157.417	3.507 N	112.977 W	27.10	27.72	D	0.65				0.62	
157.458	3.383 N	113.217 W	27.06	27.70	D	0.65				0.64	
157.500	3.233 N	113.517 W	27.12	27.70	D	0.65				0.58	
157.542	3.150 N	113.717 W	27.36	27.76	D	0.64				0.40	
157.583	3.000 N	113.900 W	27.44	27.90	D	0.64				0.48	
157.625	2.900 N	114.200 W	27.50	27.90	D	0.64				0.40	
157.667	2.783 N	114.450 W	27.53	28.17	D	0.64				0.64	
157.708	2.670 N	114.700 W	27.51	28.39	D	0.64				0.88	
157.750	2.542 N	114.857 W	27.41	28.21	D	0.64				0.80	
157.792	2.427 N	115.222 W	27.22	28.00	D	0.65				0.78	
157.833	2.263 N	115.572 W	27.06	27.77	D	0.65				0.71	
157.875	2.168 N	115.755 W	26.57	27.20	D	0.65				0.63	
157.917	2.045 N	115.993 W	26.46	27.40	D	0.65				0.94	
157.958	1.917 N	116.217 W	27.03	27.61	D	0.65				0.58	
158.000	1.783 N	116.467 W	26.94	27.63	D	0.65				0.69	
158.042	1.667 N	116.700 W	26.82	27.43	D	0.65				0.61	
158.083	1.538 N	116.945 W	26.69	27.40	D	0.65				0.71	
158.125	1.450 N	117.017 W	26.82	27.40	D	0.65				0.58	
158.167	1.333 N	117.300 W	26.90	27.43	D	0.65				0.53	
158.208	1.217 N	117.533 W	26.95	27.49	D	0.65				0.54	
158.250	1.083 N	117.767 W	26.89	27.40	D	0.65				0.51	
158.292	0.962 N	118.030 W	26.73	27.24	D	0.65				0.51	
158.333	0.845 N	118.230 W	26.57	26.96	D	0.65				0.39	
158.375	0.715 N	118.530 W	26.00	26.65	D	0.65				0.65	

RITS/CO2/EPOCS 1986												
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
158.417	0.640	N	118.712	W	25.34	26.43	D	0.66		1.09		
158.458	0.517	N	118.900	W	25.32	26.22	D	0.66		0.90		
158.500	0.400	N	119.133	W	25.34	26.01	D	0.66		0.67		
158.542	0.300	N	119.350	W	25.32	25.80	D	0.66		0.48		
158.583	0.200	N	119.567	W	25.29	25.80	D	0.66		0.51		
158.625	0.083	N	119.767	W	25.31	25.90	D	0.66		0.59		
158.667	0.000	N	119.950	W	25.44	26.09	D	0.66		0.65		
158.708	0.000	N	119.950	W	25.47	26.15	D	0.66		0.68		
158.750	0.000	N	119.950	W	25.53	26.23	D	0.66		0.70		
158.792	0.017	N	120.033	W	25.58	26.31	D	0.66		0.73		
158.833	0.000	N	120.250	W	25.60	26.40	D	0.66		0.80		
158.875	0.000	N	120.500	W	25.69	26.49	D	0.66		0.80		
158.917	0.013	N	120.710	W	25.73	26.60	D	0.66		0.87		
158.958	0.008	N	120.940	W	25.78	26.60	D	0.66		0.82		
159.000	0.000	N	121.167	W	25.73	26.60	D	0.66		0.87		
159.042	0.000	N	121.400	W	25.68	26.52	D	0.66		0.84		
159.083	0.000	N	121.600	W	25.66	26.41	D	0.66		0.75		
159.125	0.000	N	121.933	W	25.63	26.30	D	0.66		0.67		
159.167	0.003	S	122.085	W	25.70	26.31	D	0.66		0.61		
159.208	0.012	S	122.280	W	25.77	26.36	D	0.66		0.59		
159.250	0.017	S	122.500	W	25.85	26.40	D	0.66		0.55		
159.292	0.017	S	122.735	W	25.87	26.40	D	0.66		0.53		
159.333	0.010	S	122.962	W	25.87	26.40	D	0.66		0.53		
159.375	0.012	S	123.197	W	25.89	26.40	D	0.66		0.51		
159.417	0.012	S	123.427	W	25.91	26.40	D	0.65		0.49		
159.458	0.005	S	123.662	W	25.92	26.40	D	0.65		0.48		
159.500	0.000	N	124.000	W	25.93	26.40	D	0.65		0.47		
159.542	0.017	S	124.117	W	25.88	26.40	D	0.66		0.52		
159.583	0.017	S	124.333	W	25.94	26.40	D	0.65		0.46		
159.625	0.000	N	124.583	W	25.93	26.53	D	0.65		0.60		
159.667	0.007	N	124.790	W	25.95	26.60	D	0.65		0.65		
159.708	0.008	N	124.970	W	25.97	26.60	D	0.65		0.63		
159.750	0.005	N	124.948	W	25.98	26.66	D	0.65		0.68		
159.792	0.002	N	125.145	W	26.03	26.73	D	0.65		0.70		
159.833	0.005	N	125.370	W	26.13	26.89	D	0.65		0.76		
159.875	0.010	N	125.597	W	26.17	27.04	D	0.65		0.87		
159.917	0.013	N	125.812	W	26.21	27.12	D	0.65		0.91		
159.958	0.003	N	126.042	W	26.24	27.18	D	0.65		0.94		
160.000	0.000	N	126.283	W	26.23	27.05	D	0.65		0.82		
160.042	0.000	N	126.500	W	26.20	26.98	D	0.65		0.78		
160.083	0.000	N	126.743	W	26.18	26.81	D	0.65		0.63		
160.125	0.000	N	126.983	W	26.22	26.80	D	0.65		0.58		
160.167	0.000	N	127.167	W	26.24	26.80	D	0.65		0.56		
160.208	0.000	N	127.450	W	26.26	26.80	D	0.65		0.54		
160.250	0.000	N	127.667	W	26.23	26.73	D	0.65		0.50		
160.292	0.000	N	127.900	W	26.24	26.70	D	0.65		0.46		
160.333	0.017	N	128.142	W	26.26	26.76	D	0.65		0.50		
160.375	0.022	N	128.385	W	26.24	26.80	D	0.65		0.56		
160.417	0.017	N	128.612	W	26.26	26.80	D	0.65		0.54		
160.458	0.032	N	128.852	W	26.28	26.80	D	0.65		0.52		

RITS/CO2/EPOCS 1986												
Date GMT	Latitude		Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
160.500	0.000	N	129.000	W	26.27		26.80	D	0.65		0.53	
160.542	0.000	N	129.317	W	26.21		26.80	D	0.65		0.59	
160.583	0.000	N	129.550	W	26.25		26.80	D	0.65		0.55	
160.625	0.008	N	129.800	W	26.28		26.82	D	0.65		0.54	
160.667	0.000	N	129.500	W	26.29		26.91	D	0.65		0.62	
160.708	0.000	N	129.983	W	26.32		26.95	D	0.65		0.63	
160.750	0.000	N	129.950	W	26.35		26.99	D	0.65		0.64	
160.792	0.000	N	129.933	W	26.37		27.08	D	0.65		0.71	
160.833	0.023	N	129.918	W	26.41		27.17	D	0.65		0.76	
160.875	0.003	N	129.917	W	26.46		27.25	D	0.65		0.79	
160.917	0.007	N	130.097	W	26.52		27.34	D	0.65		0.82	
160.958	0.010	N	130.295	W	26.60		27.30	D	0.65		0.70	
161.000	0.000	N	130.517	W	26.56		27.30	D	0.65		0.74	
161.042	0.000	N	130.750	W	26.49		27.30	D	0.65		0.81	
161.083	0.000	N	130.983	W	26.48		27.30	D	0.65		0.82	
161.125	0.013	N	131.217	W	26.47		27.02	D	0.65		0.55	
161.167	0.017	N	131.417	W	26.47		27.14	D	0.65		0.67	
161.208	0.017	N	131.583	W	26.41		27.04	D	0.65		0.63	
161.250	0.002	N	131.807	W	26.42		27.00	D	0.65		0.58	
161.292	0.012	N	132.045	W	26.36		27.00	D	0.65		0.64	
161.333	0.015	N	132.277	W	26.43		27.00	D	0.65		0.57	
161.375	0.003	N	132.493	W	26.46		27.00	D	0.65		0.54	
161.417	0.017	N	132.458	W	26.45		27.00	D	0.65		0.55	
161.458	0.003	N	132.422	W	26.42		27.00	D	0.65		0.58	
161.500	0.003	N	132.532	W	26.43		27.00	D	0.65		0.57	
161.542	0.010	N	132.747	W	26.46		27.00	D	0.65		0.54	
161.583	0.008	N	132.827	W	26.47		27.00	D	0.65		0.53	
161.625	0.017	N	132.800	W	26.46		27.00	D	0.65		0.54	
161.667	0.000	N	132.750	W	26.50		27.05	D	0.65		0.55	
161.708	0.017	N	132.800	W	26.53		27.10	D	0.65		0.57	
161.750	0.017	N	133.000	W	26.60		27.20	D	0.65		0.60	
161.792	0.000	N	133.217	W	26.66		27.30	D	0.65		0.64	
161.833	0.000	N	133.433	W	26.70		27.39	D	0.65		0.69	
161.875	0.020	N	133.683	W	26.83		27.61	D	0.65		0.78	
161.917	0.018	N	133.890	W	26.94		27.75	D	0.65		0.81	
161.958	0.012	N	134.118	W	27.03		27.80	D	0.65		0.77	
162.000	0.008	N	134.347	W	26.97		27.80	D	0.65		0.83	
162.042	0.000	N	134.550	W	26.87		27.73	D	0.65		0.86	
162.083	0.000	N	134.783	W	26.86		27.54	D	0.65		0.68	
162.125	0.000	N	134.983	W	26.81		27.49	D	0.65		0.68	
162.167	0.000	N	134.982	W	26.75		27.42	D	0.65		0.67	
162.208	0.015	S	135.043	W	26.73		27.36	D	0.65		0.63	
162.250	0.008	S	135.250	W	26.71		27.30	D	0.65		0.59	
162.292	0.013	S	135.488	W	26.72		27.30	D	0.65		0.58	
162.333	0.012	S	135.713	W	26.74		27.30	D	0.65		0.56	
162.375	0.035	S	135.948	W	26.74		27.38	D	0.65		0.64	
162.417	0.033	S	136.170	W	26.70		27.33	D	0.65		0.63	
162.458	0.027	S	136.405	W	26.70		27.30	D	0.65		0.60	
162.500	0.015	S	136.638	W	26.73		27.30	D	0.65		0.57	
162.542	0.017	S	136.867	W	26.81		27.30	D	0.65		0.49	

RITS/CO2/EPOCS 1986											
Date GMT	Latitude	Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
162.583	0.017	S	137.083	W	26.83		27.30	D	0.65		0.47
162.625	0.000	N	137.350	W	26.86		27.40	D	0.65		0.54
162.667	0.000	N	137.500	W	26.89		27.40	D	0.65		0.51
162.708	0.013	S	137.513	W	26.93		27.40	D	0.65		0.47
162.750	0.015	S	137.748	W	26.98		27.40	D	0.65		0.42
162.792	0.015	S	138.007	W	27.01		27.59	D	0.65		0.58
162.833	0.028	S	138.228	W	27.09		27.70	D	0.65		0.61
162.875	0.040	S	138.467	W	27.07		27.70	D	0.65		0.63
162.917	0.052	S	138.698	W	27.13		27.73	D	0.65		0.60
162.958	0.063	S	138.933	W	27.22		27.77	D	0.65		0.55
163.000	0.062	S	139.017	W	27.05		27.80	D	0.65		0.75
163.042	0.067	S	139.010	W	26.86		27.70	D	0.65		0.84
163.083	0.080	S	139.000	W	26.85		27.55	D	0.65		0.70
163.125	0.083	S	139.000	W	26.89		27.50	D	0.65		0.61
163.167	0.433	S	139.167	W	26.99		27.50	D	0.65		0.51
163.208	0.562	S	139.260	W	26.97		27.58	D	0.65		0.61
163.250	0.810	S	139.355	W	27.11		27.60	D	0.65		0.49
163.292	1.038	S	139.495	W	27.20		27.70	D	0.65		0.50
163.333	1.220	S	139.648	W	27.24		27.85	D	0.65		0.61
163.375	1.448	S	139.772	W	27.25		27.90	D	0.65		0.65
163.417	1.723	S	139.867	W	27.29		27.90	D	0.64		0.61
163.458	1.968	S	139.973	W	27.36		27.90	D	0.64		0.54
163.500	1.913	S	139.983	W	27.40		27.90	D	0.64		0.50
163.542	1.917	S	139.983	W	27.39		27.90	D	0.64		0.51
163.583	2.083	S	140.000	W	27.46		27.90	D	0.64		0.44
163.625	2.083	S	140.017	W	27.46		28.00	D	0.64		0.54
163.667	2.017	S	139.950	W	27.43		28.00	D	0.64		0.57
163.708	2.088	S	139.972	W	27.44		28.00	D	0.64		0.58
163.750	2.070	S	139.955	W	27.40		28.03	D	0.64		0.63
163.792	2.075	S	139.978	W	27.43		28.00	D	0.64		0.57
163.833	2.082	S	139.995	W	27.46		28.06	D	0.64		0.60
163.875	2.092	S	140.007	W	27.49		28.16	D	0.64		0.67
163.917	2.110	S	140.032	W	27.52		28.26	D	0.64		0.74
163.958	2.100	S	140.032	W	27.53		28.30	D	0.64		0.77
164.000	2.080	S	140.008	W	27.53		28.20	D	0.64		0.67
164.042	2.067	S	139.983	W	27.53		28.01	D	0.64		0.48
164.083	2.067	S	139.983	W	27.51		28.03	D	0.64		0.52
164.125	2.033	S	139.983	W	27.49		28.16	D	0.64		0.67
164.167	1.818	S	139.985	W	27.42		28.06	D	0.64		0.64
164.208	1.587	S	139.995	W	27.40		27.91	D	0.64		0.51
164.250	1.508	S	139.993	W	27.39		27.90	D	0.64		0.51
164.292	1.432	S	139.968	W	27.36		27.88	D	0.64		0.52
164.333	1.200	S	139.993	W	27.33		27.84	D	0.64		0.51
164.375	1.007	S	140.005	W	27.28		27.81	D	0.65		0.53
164.417	1.015	S	140.012	W	27.28		27.85	D	0.65		0.57
164.458	1.020	S	140.052	W	27.28		27.88	D	0.65		0.60
164.500	0.807	S	140.005	W	27.12		27.92	D	0.65		0.80
164.542	0.583	S	139.967	W	26.94		27.96	D	0.65		1.02
164.583	0.517	S	139.967	W	26.93		28.00	D	0.65		1.07
164.625	0.483	S	139.967	W	26.88		27.30	D	0.65		0.42

RITS/CO2/EPOCS 1986											
Date GMT	Latitude	Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
164.667	0.383	S 140.027	W 26.76		27.30	D	0.65		0.54		
164.708	0.033	S 140.015	W 26.79		27.39	D	0.65		0.60		
164.750	0.033	S 140.012	W 26.79		27.49	D	0.65		0.70		
164.792	0.040	S 140.010	W 26.80		27.56	D	0.65		0.76		
164.833	0.050	S 140.003	W 26.82		27.62	D	0.65		0.80		
164.875	0.060	S 139.995	W 26.85		27.69	D	0.65		0.84		
164.917	0.068	S 139.983	W 26.90		27.70	D	0.65		0.80		
164.958	0.008	S 140.002	W 26.93		27.70	D	0.65		0.77		
165.000	0.035	S 140.035	W 26.94		27.67	D	0.65		0.73		
165.042	0.033	S 140.033	W 26.97		27.62	D	0.65		0.65		
165.083	0.017	S 140.033	W 26.98		27.57	D	0.65		0.59		
165.125	0.133	S 140.050	W 26.96		27.51	D	0.65		0.55		
165.167	0.002	N 140.038	W 26.94		27.46	D	0.65		0.52		
165.208	0.027	S 140.047	W 26.93		27.41	D	0.65		0.48		
165.250	0.032	S 139.972	W 26.93		27.35	D	0.65		0.42		
165.292	0.022	N 140.020	W 26.91		27.31	D	0.65		0.40		
165.333	0.023	N 140.002	W 26.89		27.39	D	0.65		0.50		
165.375	0.018	N 139.997	W 26.89		27.40	D	0.65		0.51		
165.417	0.028	N 139.992	W 26.91		27.40	D	0.65		0.49		
165.458	0.058	N 139.958	W 26.87		27.40	D	0.65		0.53		
165.500	0.247	N 139.962	W 26.81	D	27.40	D	0.65		0.59		
165.542	0.500	N 140.000	W 26.91	D	27.40	D	0.65		0.49		
165.583	0.500	N 140.000	W 26.95	D	27.40	D	0.65		0.45		
165.625	0.617	N 139.967	W 27.01	D	27.40	D	0.65		0.39		
165.667	0.817	N 139.983	W 27.07	D	27.50	D	0.65		0.43		
165.708	1.063	N 140.000	W 27.13	D	27.60	D	0.65		0.47		
165.750	1.325	N 140.013	W 27.19	D	27.80	D	0.65		0.61		
165.792	1.367	N 140.003	W 27.25	D	27.80	D	0.65		0.55		
165.833	1.365	N 139.992	W 27.26	D	27.80	D	0.65		0.54		
165.875	1.358	N 139.980	W 27.29	D	27.96	D	0.64		0.67		
165.917	1.527	N 139.990	W 27.38	D	28.32	D	0.64		0.94		
165.958	1.830	N 139.998	W 27.47	D	28.21	D	0.64		0.74		
166.000	2.000	N 140.000	W 27.56	D	28.25	D	0.64		0.69		
166.042	2.000	N 140.000	W 27.64	D	28.30	D	0.64		0.66		
166.083	2.033	N 140.000	W 27.69	D	28.30	D	0.64		0.61		
166.125	2.267	N 140.000	W 27.74	D	28.30	D	0.64		0.56		
166.167	2.468	N 140.010	W 27.78	D	28.30	D	0.64		0.52		
166.208	2.505	N 140.013	W 27.83	D	28.36	D	0.64		0.53		
166.250	2.652	N 139.983	W 27.88	D	28.37	D	0.64		0.49		
166.292	2.953	N 139.992	W 27.92	D	28.30	D	0.64		0.38		
166.333	3.007	N 139.987	W 27.93	D	28.34	D	0.64		0.41		
166.375	3.022	N 139.972	W 27.92	D	28.38	D	0.64		0.46		
166.417	3.020	N 139.973	W 27.91	D	28.42	D	0.64		0.51		
166.458	2.995	N 139.963	W 27.90	D	28.46	D	0.64		0.56		
166.500	3.048	N 140.010	W 27.89	D	28.50	D	0.64		0.61		
166.542	3.233	N 140.200	W 27.88	D	28.54	D	0.64		0.66		
166.583	3.417	N 140.383	W 27.87	D	28.58	D	0.64		0.71		
166.625	3.583	N 140.550	W 27.86	D	28.62	D	0.64		0.76		
166.667	3.767	N 140.767	W 27.85	D	28.66	D	0.64		0.81		
166.708	3.907	N 140.898	W 27.84	D	28.70	D	0.64		0.86		

RITS/CO2/EPOCS 1986											
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
166.750	4.072	N	141.098	W	27.83	D	28.80	D	0.64	0.97	
166.792	4.238	N	141.277	W	27.82	D	28.90	D	0.64	1.08	
166.833	4.417	N	141.452	W	27.81	D	28.90	D	0.64	1.09	
166.875	4.600	N	141.623	W	27.80	D	29.00	D	0.64	1.20	
166.917	4.785	N	141.797	W	27.79	D	29.20	D	0.64	1.41	
166.958	4.958	N	141.973	W	27.78	D	29.20	D	0.64	1.42	
167.000	5.128	N	142.147	W	28.22	D	29.29	D	0.64	1.07	
167.042	5.300	N	142.333	W	28.40		29.30	D	0.64	0.90	
167.083	5.500	N	142.517	W	28.49		29.30	D	0.64	0.81	
167.125	5.633	N	142.650	W	28.47		29.19	D	0.64	0.72	
167.167	5.800	N	142.833	W	28.37		29.06	D	0.64	0.69	
167.208	5.960	N	143.037	W	28.27		28.94	D	0.64	0.67	
167.250	6.142	N	143.195	W	28.24		28.82	D	0.64	0.58	
167.292	6.315	N	143.382	W	28.17		28.80	D	0.64	0.63	
167.333	6.497	N	143.555	W	28.16		28.86	D	0.64	0.70	
167.375	6.673	N	143.735	W	28.18		28.90	D	0.64	0.72	
167.417	6.840	N	143.907	W	28.17		28.90	D	0.64	0.73	
167.458	7.028	N	144.078	W	28.12		28.86	D	0.64	0.74	
167.500	7.208	N	144.252	W	28.08		28.81	D	0.64	0.73	
167.542	7.400	N	144.417	W	28.08		28.72	D	0.64	0.64	
167.583	7.567	N	144.583	W	28.05		28.63	D	0.64	0.58	
167.625	7.733	N	144.750	W	28.01		28.56	D	0.64	0.55	
167.667	8.000	N	145.000	W	28.00		28.51	D	0.64	0.51	
167.708	8.143	N	145.130	W	27.97		28.50	D	0.64	0.53	
167.750	8.330	N	145.292	W	27.94		28.50	D	0.64	0.56	
167.792	8.520	N	145.463	W	27.86		28.50	D	0.64	0.64	
167.833	8.700	N	145.643	W	27.82		28.58	D	0.64	0.76	
167.875	8.892	N	145.827	W	27.89		28.70	D	0.64	0.81	
167.917	9.070	N	146.008	W	27.84		28.65	D	0.64	0.81	
167.958	9.243	N	146.192	W	27.76		28.50	D	0.64	0.74	
168.000	9.415	N	146.375	W	27.69		28.37	D	0.64	0.68	
168.042	9.567	N	146.550	W	27.62		28.24	D	0.64	0.62	
168.083	9.750	N	146.733	W	27.53		28.16	D	0.64	0.63	
168.125	9.925	N	146.925	W	27.47		28.10	D	0.64	0.63	
168.167	10.000	N	147.000	W	27.44		28.03	D	0.64	0.59	
168.208	9.983	N	146.983	W	27.42		28.00	D	0.64	0.58	
168.250	10.025	N	147.027	W	27.43		28.00	D	0.64	0.57	
168.292	10.220	N	147.212	W	27.37		27.97	D	0.64	0.60	
168.333	10.402	N	147.392	W	27.33		27.91	D	0.64	0.58	
168.375	10.575	N	147.565	W	27.30		27.85	D	0.64	0.55	
168.417	10.747	N	147.747	W	27.14		27.79	D	0.65	0.65	
168.458	10.930	N	147.907	W	27.00		27.77	D	0.65	0.77	
168.500	11.103	N	148.078	W	26.94		27.74	D	0.65	0.80	
168.542	11.272	N	148.282	W	27.03		27.72	D	0.65	0.69	
168.583	11.450	N	148.467	W	27.17		27.70	D	0.65	0.53	
168.625	11.600	N	148.650	W	27.20		27.70	D	0.65	0.50	
168.667	11.792	N	148.833	W	27.17		27.70	D	0.65	0.53	
168.708	11.967	N	148.983	W	27.25		27.80	D	0.65	0.55	
168.750	12.148	N	149.187	W	27.09		27.72	D	0.65	0.63	
168.792	12.307	N	149.345	W	26.81		27.49	D	0.65	0.68	

RITS/CO2/EPOCS 1986											
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
168.833	12.473	N	149.535	W	26.78		27.37	D	0.65		0.59
168.875	12.473	N	149.535	W	26.99		27.32	D	0.65		0.33
168.917	12.508	N	149.895	W	27.00		27.69	D	0.65		0.69
168.958	13.035	N	150.083	W	27.03		27.80	D	0.65		0.77
169.000	13.213	N	150.257	W	26.94		27.80	D	0.65		0.86
169.042	13.393	N	150.437	W	26.70		27.50	D	0.65		0.80
169.083	13.567	N	150.617	W	26.64		27.40	D	0.65		0.76
169.125	13.717	N	150.667	W	26.58		27.30	D	0.65		0.72
169.167	13.850	N	150.700	W	26.58		27.20	D	0.65		0.62
169.208	14.017	N	150.883	W	26.60		27.20	D	0.65		0.60
169.250	14.193	N	151.078	W	26.55		27.20	D	0.65		0.65
169.292	14.375	N	151.273	W	26.54		27.20	D	0.65		0.66
169.333	14.548	N	151.470	W	26.54		27.20	D	0.65		0.66
169.375	14.715	N	151.658	W	26.49		27.12	D	0.65		0.63
169.417	14.882	N	151.852	W	26.38		27.03	D	0.65		0.65
169.458	15.047	N	152.033	W	26.16		26.94	D	0.65		0.76
169.500	15.225	N	152.228	W	25.99		26.85	D	0.65		0.86
169.542	15.398	N	152.408	W	26.04		26.80	D	0.65		0.76
169.583	15.583	N	152.600	W	26.17		26.80	D	0.65		0.63
169.625	15.767	N	152.767	W	26.13		26.85	D	0.65		0.72
169.667	15.933	N	152.983	W	26.19		26.90	D	0.65		0.71
169.708	16.007	N	153.233	W	26.21		26.95	D	0.65		0.74
169.750	16.152	N	153.380	W	26.30		27.00	D	0.65		0.70
169.792	16.355	N	153.428	W	26.20		26.90	D	0.65		0.70
169.833	16.497	N	153.582	W	26.22		26.85	D	0.65		0.63
169.875	16.648	N	153.738	W	26.13		26.80	D	0.65		0.67
169.917	16.792	N	153.890	W	26.05		26.80	D	0.65		0.75
169.958	16.935	N	154.042	W	25.91		26.70	D	0.65		0.79
170.000	17.077	N	154.198	W	25.94		26.70	D	0.65		0.76
170.042	17.223	N	154.362	W	26.04		26.80	D	0.65		0.76
170.083	17.375	N	154.362	W	26.10		26.68	D	0.65		0.58
170.125	17.517	N	154.683	W	26.05		26.56	D	0.65		0.51
170.167	17.667	N	154.850	W	25.97		26.44	D	0.65		0.47
170.208	17.817	N	155.000	W	25.81		26.32	D	0.66		0.51
170.250	17.952	N	155.138	W	25.69		26.22	D	0.66		0.53
170.292	18.105	N	155.278	W	25.68		26.12	D	0.66		0.44
170.333	18.312	N	155.435	W	25.69		26.10	D	0.66		0.41
170.375	18.480	N	155.572	W			•				*
170.417	18.642	N	155.708	W			•				*
170.458	18.807	N	155.852	W			•				*
170.500	18.980	N	155.940	W			•				*
182.458	21.633	N	157.400	W	25.16	R	25.80	D	0.64		*
182.500	21.850	N	157.300	W	25.36	R	26.00	D	0.64		*
182.542	22.050	N	157.183	W	24.86	R	25.50	D	0.64		*
182.583	22.262	N	157.060	W	24.96	R	25.60	D	0.64		*
182.625	22.553	N	156.892	W	25.06	R	25.70	D	0.64		*
182.667	22.668	N	156.810	W	25.06	R	25.70	D	0.64		*
182.708	22.890	N	156.683	W	25.06	R	25.70	D	0.64		*
182.750	23.120	N	156.563	W	25.07	R	25.71	D	0.64		*

				RITS/CO2/EPOCS 1986							
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
182.792	23.338	N	156.440	W	25.07	R	25.71	D	0.64		*
182.833	23.540	N	156.323	W	25.08	R	25.72	D	0.64		*
182.875	23.745	N	156.197	W	25.08	R	25.72	D	0.64		*
182.917	23.983	N	156.100	W	25.09	R	25.73	D	0.64		*
182.958	24.213	N	155.990	W	25.09	R	25.73	D	0.64		*
183.000	24.232	N	155.967	W	24.96		25.74	D	0.66	0.78	
183.042	24.345	N	155.920	W	24.98		25.74	D	0.66	0.76	
183.083	24.450	N	155.858	W	24.97		25.75	D	0.66	0.78	
183.125	24.623	N	155.718	W	24.92		25.76	D	0.66	0.84	
183.167	24.875	N	155.592	W	24.80		25.76	D	0.66	0.96	
183.208	25.097	N	155.488	W	24.84		25.77	D	0.66	0.93	
183.250	25.307	N	155.392	W	24.76		25.77	D	0.66	1.01	
183.292	25.548	N	155.257	W	24.67		25.78	D	0.66	1.11	
183.333	25.722	N	155.165	W	24.21		25.78	D	0.67	1.57	D
183.417	25.937	N	155.052	W	24.22		25.79	D	0.67	1.57	D
183.458	26.002	N	155.012	W	24.26		25.79	D	0.67	1.53	D
183.458	26.007	N	154.995	W	24.27		25.80	D	0.67	1.53	D
183.500	26.023	N	154.990	W	24.23		25.70	D	0.67	1.47	D
183.542	26.005	N	154.995	W	24.17		25.60	D	0.67	1.43	
183.583	26.033	N	154.978	W	24.17		25.30	D	0.67	1.13	
183.625	26.033	N	154.967	W	24.18		25.20	D	0.67	1.02	
183.667	26.000	N	154.983	W	24.19		25.19	D	0.67	1.00	
183.708	26.000	N	155.000	W	24.19		24.70	D	0.67	0.51	
183.750	26.012	N	154.960	W	24.18		24.40	D	0.67	0.22	
183.792	26.003	N	155.002	W	24.19		24.80	D	0.67	0.61	
183.833	26.015	N	154.988	W	24.20		25.00	D	0.67	0.80	
183.875	26.012	N	155.150	W	24.22		25.01	D	0.67	0.79	
183.917	26.018	N	154.977	W	24.28		25.01	D	0.67	0.73	
183.958	26.023	N	154.978	W	24.32		25.02	D	0.67	0.70	
184.000	25.953	N	154.910	W	24.36		25.03	D	0.67	0.67	
184.042	25.805	N	154.787	W	24.38	R	25.03	D	0.65		*
184.083	25.627	N	154.632	W	24.39	R	25.04	D	0.65		*
184.125	25.438	N	154.472	W	24.40	R	25.05	D	0.65		*
184.167	25.250	N	154.308	W	24.40	R	25.05	D	0.65		*
184.208	25.065	N	154.197	W	24.41	R	25.06	D	0.65		*
184.250	24.880	N	154.030	W	24.42	R	25.07	D	0.65		*
184.292	24.693	N	153.880	W	24.42	R	25.07	D	0.65		*
184.333	24.855	N	153.710	W	24.43	R	25.08	D	0.65		*
184.375	24.375	N	153.553	W	24.44	R	25.09	D	0.65		*
184.417	24.217	N	153.400	W	24.44	R	25.09	D	0.65		*
184.458	24.067	N	153.250	W	24.45	R	25.10	D	0.65		*
184.500	23.883	N	153.083	W	24.45	R	25.10	D	0.65		*
184.542	23.725	N	152.927	W	23.66	R	24.31	D	0.65		*
184.583	23.565	N	152.753	W	24.15	R	24.80	D	0.65		*
184.625	23.397	N	152.580	W	24.35	R	25.00	D	0.65		*
184.667	23.222	N	152.472	W	24.56	R	25.20	D	0.64		*
184.708	23.062	N	152.302	W	24.57	R	25.21	D	0.64		*
184.750	22.898	N	152.152	W	25.46	R	26.10	D	0.64		*
184.792	22.722	N	152.005	W	25.36	R	26.00	D	0.64		*
184.833	22.535	N	151.843	W	25.36	R	26.00	D	0.64		*

RITS/CO2/EPOCS 1986												
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
184.875	22.345	N	151.673	W	25.36	R	26.00	D	0.64		*	
184.917	22.200	N	151.550	W	25.36	R	26.00	D	0.64		*	
184.958	22.017	N	151.400	W	25.36	R	26.00	D	0.64		*	
185.000	21.817	N	151.250	W	25.49		26.00	D	0.66	0.51		
185.042	21.633	N	151.100	W	25.48		26.00	D	0.66	0.52		
185.083	21.453	N	150.953	W	25.47		26.00	D	0.66	0.53		
185.125	21.272	N	150.793	W	25.47		26.00	D	0.66	0.53		
185.167	21.083	N	150.633	W	25.40		26.00	D	0.66	0.60		
185.208	20.933	N	150.518	W	25.30		26.00	D	0.66	0.70		
185.250	20.730	N	150.347	W	25.34		26.00	D	0.66	0.66		
185.292	20.557	N	150.200	W	25.36		26.00	D	0.66	0.64		
185.333	20.377	N	150.040	W	25.51		26.00	D	0.66	0.49		
185.375	20.198	N	149.885	W	25.52		26.00	D	0.66	0.48		
185.417	20.000	N	149.733	W	25.50		26.00	D	0.66	0.50		
185.458	19.850	N	149.583	W	25.55		26.00	D	0.66	0.45		
185.500	19.667	N	149.450	W	25.51		26.10	D	0.66	0.59		
185.542	19.500	N	149.300	W	25.40		26.00	D	0.66	0.60		
185.583	19.333	N	149.140	W	25.43		25.80	D	0.66	0.37		
185.625	19.160	N	148.982	W	25.45		25.80	D	0.66	0.35		
185.667	18.987	N	148.822	W	25.48		26.00	D	0.66	0.52		
185.708	18.820	N	148.658	W	25.46		25.90	D	0.66	0.44		
185.750	18.647	N	148.487	W	25.60		25.90	D	0.66	0.30		
185.792	18.473	N	148.332	W	25.78		25.90	D	0.66	0.12		
185.833	18.313	N	148.167	W	25.87		25.90	D	0.66	0.03		
185.875	18.135	N	148.023	W	26.00		26.10	D	0.65	0.10		
185.917	17.955	N	147.872	W	26.14		26.30	D	0.65	0.16		
185.958	17.792	N	147.725	W	26.36		26.60	D	0.65	0.24		
186.000	17.617	N	147.583	W	26.44		26.80	D	0.65	0.36		
186.042	17.450	N	147.450	W	26.44		27.00	D	0.65	0.56		
186.083	17.257	N	147.298	W	26.38		27.01	D	0.65	0.63		
186.125	17.077	N	147.165	W	26.28		27.02	D	0.65	0.74		
186.167	16.893	N	147.037	W	26.15		27.03	D	0.65	0.88		
186.208	16.715	N	146.893	W	26.17		27.04	D	0.65	0.87		
186.250	16.543	N	146.748	W	26.18		27.05	D	0.65	0.87		
186.292	16.363	N	146.598	W	26.17		27.06	D	0.65	0.89		
186.333	16.195	N	146.458	W	26.23		27.07	D	0.65	0.84		
186.375	16.010	N	146.308	W	26.28		27.08	D	0.65	0.80		
186.417	15.967	N	146.167	W	26.25		27.09	D	0.65	0.84		
186.458	15.650	N	146.017	W	26.18		27.10	D	0.65	0.92		
186.500	15.467	N	145.883	W	26.10		26.60	D	0.65	0.50		
186.542	15.283	N	145.700	W	25.98		26.60	D	0.65	0.62		
186.583	15.118	N	145.597	W	26.09		26.80	D	0.65	0.51		
186.625	15.003	N	145.495	W	26.13		26.40	D	0.65	0.27		
186.667	15.012	N	145.478	W	26.14		26.50	D	0.65	0.36		
186.708	15.005	N	145.482	W	26.16		26.50	D	0.65	0.34		
186.750	15.002	N	145.505	W	26.14		26.40	D	0.65	0.26		
186.792	14.980	N	145.517	W	26.12		26.55	D	0.65	0.43		
186.833	14.997	N	145.503	W	26.23		26.70	D	0.65	0.47		
186.875	14.998	N	145.497	W	26.19		26.80	D	0.65	0.61		
186.917	15.003	N	145.490	W	26.24		26.80	D	0.65	0.56		

				RITS/CO2/EPOCS 1986							
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
186.958	15.000	N	145.483	W	26.24		27.00	D	0.65		0.76
187.000	15.000	N	145.483	W	26.26		26.97	D	0.65		0.71
187.042	15.000	N	145.467	W	26.26		26.93	D	0.65		0.67
187.083	15.035	N	145.443	W	26.27		26.90	D	0.65		0.63
187.125	15.052	N	145.418	W	26.07		26.87	D	0.65		0.80
187.167	15.042	N	145.397	W	25.92		26.83	D	0.65		0.91
187.208	15.168	N	145.305	W	26.13		26.80	D	0.65		0.67
187.250	15.327	N	145.180	W	26.12		26.77	D	0.65		0.65
187.292	15.530	N	145.047	W	26.03		26.73	D	0.65		0.70
187.333	15.727	N	144.920	W	25.97		26.70	D	0.65		0.73
187.375	15.955	N	144.955	W	25.92		26.67	D	0.65		0.75
187.417	16.142	N	144.705	W	25.88		26.63	D	0.66		0.75
187.458	16.350	N	144.583	W	25.96		26.60	D	0.65		0.64
187.500	16.533	N	144.600	W	25.80		26.40	D	0.66		0.60
187.542	16.733	N	144.300	W	25.72		26.60	D	0.66		0.88
187.583	16.923	N	144.163	W	25.73		26.50	D	0.66		0.77
187.625	17.123	N	144.028	W	25.52		26.40	D	0.66		0.88
187.667	17.318	N	143.895	W	25.44		26.30	D	0.66		0.86
187.708	17.522	N	143.750	W	25.47		26.20	D	0.66		0.73
187.750	17.698	N	143.618	W	25.46		26.20	D	0.66		0.74
187.792	17.893	N	143.480	W	25.42		25.90	D	0.66		0.48
187.833	18.085	N	143.342	W	25.43		25.90	D	0.66		0.47
187.875	18.267	N	143.197	W	25.42		25.90	D	0.66		0.48
187.917	18.467	N	143.033	W	25.49		26.00	D	0.66		0.51
187.958	18.667	N	142.900	W	25.54		26.10	D	0.66		0.56
188.000	18.867	N	142.810	W	25.35		26.10	D	0.66		0.75
188.042	19.072	N	142.692	W	25.40		26.07	D	0.66		0.67
188.083	19.268	N	142.550	W	25.37		26.05	D	0.66		0.68
188.125	19.465	N	142.408	W	25.37		26.02	D	0.66		0.65
188.167	19.650	N	142.265	W	25.37		25.99	D	0.66		0.62
188.208	19.827	N	142.122	W	25.18		25.96	D	0.66		0.78
188.250	19.997	N	141.993	W	25.01		25.94	D	0.66		0.93
188.292	20.018	N	141.978	W	24.96		25.91	D	0.66		0.95
188.333	20.002	N	141.933	W	24.97		25.88	D	0.66		0.91
188.375	19.990	N	141.990	W	24.89		25.85	D	0.66		0.96
188.417	19.978	N	141.950	W	24.89		25.83	D	0.66		0.94
188.458	19.962	N	141.967	W	24.89		25.80	D	0.66		0.91
188.500	20.005	N	141.988	W	24.88		26.00	D	0.66		1.12
188.542	20.007	N	142.005	W	24.96		25.90	D	0.66		0.94
188.583	20.002	N	141.985	W	24.94		25.60	D	0.66		0.66
188.625	19.997	N	141.977	W	24.95		25.40	D	0.66		0.45
188.667	20.002	N	141.963	W	24.97		25.41	D	0.66		0.44
188.708	20.015	N	141.938	W	24.99		25.80	D	0.66		0.81
188.750	20.030	N	141.922	W	24.99		25.90	D	0.66		0.91
188.792	20.037	N	141.905	W	24.99		25.40	D	0.66		0.41
188.833	20.027	N	141.895	W	25.06		25.50	D	0.66		0.44
188.875	20.028	N	141.907	W	25.05		25.50	D	0.66		0.45
188.917	20.017	N	141.900	W	25.11		25.50	D	0.66		0.39
188.958	20.017	N	141.917	W	25.13		25.70	D	0.66		0.57
189.000	20.000	N	141.967	W	25.11		25.70	D	0.66		0.59

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Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
189.042	20.000	N	142.000	W	25.10	25.70	D	0.66		0.60	
189.083	20.010	N	141.997	W	25.09	25.70	D	0.66		0.61	
189.125	20.013	N	141.973	W	25.06	25.70	D	0.66		0.64	
189.167	20.033	N	141.967	W	25.02	25.70	D	0.66		0.68	
189.208	20.008	N	141.950	W	25.03	25.70	D	0.66		0.67	
189.250	19.998	N	141.907	W	25.00	25.70	D	0.66		0.70	
189.292	20.023	N	141.908	W	25.00	25.70	D	0.66		0.70	
189.333	20.123	N	141.903	W	25.11	25.70	D	0.66		0.59	
189.375	20.308	N	141.823	W	25.17	25.70	D	0.66		0.53	
189.417	20.500	N	141.717	W	25.13	25.70	D	0.66		0.57	
189.458	20.663	N	141.713	W	25.03	25.70	D	0.66		0.67	
189.500	20.737	N	141.510	W	25.05	25.40	D	0.66		0.35	
189.542	20.967	N	141.417	W	25.00	25.40	D	0.66		0.40	
189.583	21.097	N	141.307	W	24.99	25.50	D	0.66		0.51	
189.625	21.223	N	141.190	W	24.85	25.50	D	0.66		0.65	
189.667	21.337	N	141.072	W	24.88	25.40	D	0.66		0.52	
189.708	21.412	N	140.917	W	24.93	25.30	D	0.66		0.37	
189.750	21.497	N	140.747	W	24.86	25.30	D	0.66		0.44	
189.792	21.582	N	140.573	W	24.75	25.40	D	0.66		0.65	
189.833	21.650	N	140.390	W	24.71	25.30	D	0.66		0.59	
189.875	21.788	N	140.297	W	24.63	25.30	D	0.66		0.67	
189.917	22.027	N	140.225	W	24.39	25.19	D	0.67		0.80	
189.958	22.223	N	140.127	W	24.25	24.80	D	0.67		0.55	
190.000	22.440	N	140.038	W	24.16	24.78	D	0.67		0.62	
190.042	22.638	N	139.942	W	24.09	24.77	D	0.67		0.68	
190.083	22.853	N	139.833	W	23.94	24.75	D	0.67		0.81	
190.125	23.063	N	139.697	W	23.68	24.73	D	0.67		0.85	
190.167	23.255	N	139.558	W	23.75	24.72	D	0.67		0.97	
190.208	23.350	N	139.507	W	23.74	24.70	D	0.67		0.96	
190.250	23.653	N	139.312	W	23.72	24.68	D	0.67		0.96	
190.292	23.840	N	139.182	W	23.82	24.67	D	0.67		0.85	
190.333	24.040	N	139.052	W	23.67	24.65	D	0.67		0.98	
190.375	24.318	N	138.943	W	23.19	24.63	D	0.67		1.44	
190.417	24.425	N	138.830	W	22.89	24.62	D	0.68		1.73	D
190.458	24.733	N	138.683	W	23.11	24.60	D	0.68		1.49	D
190.500	24.930	N	138.562	W	22.79	24.60	D	0.68		1.81	D
190.542	24.995	N	138.488	W	22.69	24.40	D	0.68		1.71	D
190.583	24.998	N	138.502	W	22.68	24.20	D	0.68		1.52	D
190.625	24.987	N	138.503	W	22.69	24.20	D	0.68		1.51	D
190.667	24.998	N	138.000	W	22.68	24.20	D	0.68		1.52	D
190.708	24.990	N	138.492	W	22.66	24.30	D	0.68		1.64	D
190.750	25.008	N	138.487	W	22.76	24.10	D	0.68		1.34	
190.792	25.113	N	138.402	W	22.92	23.59	D	0.68		0.67	
190.833	25.288	N	138.270	W	23.03	23.20	D	0.68		0.17	
190.875	25.518	N	138.122	W	22.94	23.30	D	0.68		0.36	
190.917	25.722	N	137.982	W	22.29	23.59	D	0.68		1.30	
190.958	25.983	N	137.833	W	22.34	22.90	D	0.68		0.56	
191.000	26.173	N	137.708	W	22.39	22.90	D	0.68		0.51	
191.042	26.283	N	137.568	W	22.44	22.90	D	0.68		0.46	
191.083	26.500	N	137.417	W	22.45	22.90	D	0.68		0.45	

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Date GMT	Latitude	Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
191.125	26.718	N	137.295	W	22.20	22.90	D	0.68		0.70	
191.167	26.930	N	137.173	W	22.16	22.90	D	0.68		0.74	
191.208	27.117	N	137.033	W	22.09	22.90	D	0.68		0.81	
191.250	27.322	N	136.920	W	22.32	22.90	D	0.68		0.58	
191.292	27.518	N	136.783	W	22.20	22.90	D	0.68		0.70	
191.333	27.735	N	136.625	W	21.81	22.90	D	0.68		1.09	
191.375	27.940	N	136.475	W	22.05	22.90	D	0.68		0.85	
191.417	28.133	N	136.317	W	21.74	22.90	D	0.69		1.16	
191.458	28.333	N	136.167	W	21.28	22.90	D	0.69		1.62	D
191.500	28.333	N	136.167	W	21.43	22.70	D	0.69		1.27	
191.542	28.540	N	136.043	W	21.68	22.79	D	0.69		1.11	
191.583	28.745	N	135.907	W	21.65	22.20	D	0.69		0.55	
191.625	28.943	N	135.768	W	21.41	22.40	D	0.69		0.99	
191.667	29.140	N	135.637	W	21.33	22.39	D	0.69		1.06	
191.708	29.340	N	135.497	W	21.40	21.80	D	0.69		0.40	
191.750	29.537	N	135.360	W	20.99	21.90	D	0.69		0.91	
191.792	29.730	N	135.218	W	20.77	21.80	D	0.69		1.03	
191.833	29.918	N	135.068	W	20.77	21.90	D	0.69		1.13	
191.875	30.008	N	134.973	W	20.82	21.80	D	0.69		0.98	
191.917	29.987	N	134.970	W	20.87	21.40	D	0.69		0.53	
191.958	30.000	N	135.000	W	20.94	21.40	D	0.69		0.46	
192.000	29.983	N	135.000	W	20.94	21.30	D	0.69		0.36	
192.042	29.967	N	135.017	W	20.92	21.40	D	0.69		0.48	
192.083	29.960	N	135.008	W	20.89	21.40	D	0.69		0.51	
192.125	29.960	N	135.015	W	20.88	21.50	D	0.69		0.62	
192.167	30.032	N	135.015	W	20.82	21.50	D	0.69		0.68	
192.208	30.215	N	135.023	W	20.38	21.50	D	0.70		1.12	
192.250	30.382	N	135.022	W	20.27	21.50	D	0.70		1.23	
192.292	30.665	N	135.032	W	20.29	21.50	D	0.70		1.21	
192.333	30.910	N	135.020	W	20.49	21.50	D	0.69		1.01	
192.375	31.157	N	135.023	W	20.46	21.50	D	0.69		1.04	
192.417	31.655	N	135.020	W	19.99	21.50	D	0.70		1.51	D
192.458	31.908	N	135.013	W	20.08	21.30	D	0.70		1.22	
192.500	32.167	N	134.992	W	19.73	20.70	D	0.70		0.97	
192.542	32.390	N	134.998	W	19.65	20.60	D	0.70		0.95	
192.583	32.625	N	134.990	W	19.75	20.70	D	0.70		0.95	
192.625	32.858	N	134.990	W	19.63	20.40	D	0.70		0.77	
192.667	33.088	N	134.988	W	19.60	20.20	D	0.70		0.60	
192.708	33.323	N	134.987	W	19.56	20.10	D	0.70		0.54	
192.750	33.577	N	134.988	W	19.54	20.20	D	0.70		0.66	
192.792	33.808	N	134.997	W	19.54	20.10	D	0.70		0.56	
192.833	34.057	N	135.007	W	19.41	20.20	D	0.70		0.79	
192.875	34.303	N	135.007	W	19.46	20.10	D	0.70		0.64	
192.917	34.783	N	135.000	W	19.53	20.10	D	0.70		0.57	
192.958	34.783	N	135.000	W	19.38	20.10	D	0.70		0.72	
193.000	35.013	N	134.993	W	19.52	20.00	D	0.70		0.48	
193.042	35.002	N	134.995	W	19.60	20.01	D	0.70		0.41	
193.083	35.000	N	134.998	W	19.63	20.02	D	0.70		0.39	
193.125	34.987	N	135.028	W	19.60	20.03	D	0.70		0.43	
193.167	35.003	N	135.002	W	19.60	20.04	D	0.70		0.44	

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Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
193.208	34.990	N	135.008	W	19.59	20.05	D	0.70		0.46	
193.250	34.973	N	135.000	W	19.65	20.06	D	0.70		0.41	
193.292	35.005	N	135.022	W	19.70	20.07	D	0.70		0.37	
193.333	35.033	N	135.032	W	19.71	20.08	D	0.70		0.37	
193.375	35.117	N	135.067	W	19.75	20.09	D	0.70		0.34	
193.417	35.117	N	135.050	W	19.73	20.10	D	0.70		0.37	
193.458	35.267	N	135.000	W	19.73	19.90	D	0.70		0.17	
193.500	35.500	N	135.000	W	19.61	20.10	D	0.70		0.49	
193.542	35.735	N	135.002	W	19.26	20.10	D	0.70		0.84	
193.583	35.970	N	134.992	W	19.29	20.10	D	0.70		0.81	
193.625	36.203	N	135.000	W	19.24	20.00	D	0.70		0.76	
193.667	36.445	N	135.010	W	19.15	20.00	D	0.70		0.85	
193.708	36.682	N	134.653	W	18.93	19.80	D	0.71		0.87	
193.750	36.917	N	134.982	W	18.92	19.60	D	0.71		0.68	
193.792	37.003	N	135.007	W	19.08	19.40	D	0.70		0.32	
193.833	37.000	N	135.007	W	19.12	19.70	D	0.70		0.58	
193.875	37.005	N	135.010	W	19.23	19.70	D	0.70		0.47	
193.917	37.017	N	135.000	W	19.23	19.80	D	0.70		0.57	
193.958	37.000	N	135.000	W	19.19	19.90	D	0.70		0.71	
194.000	37.000	N	135.000	W	19.56	19.87	D	0.70		0.31	
194.042	37.093	N	135.018	W	19.23	19.85	D	0.70		0.62	
194.083	37.262	N	135.013	W	19.01	19.82	D	0.71		0.81	
194.125	37.333	N	135.000	W	18.97	19.79	D	0.71		0.82	
194.167	37.500	N	135.000	W	18.73	19.76	D	0.71		1.03	
194.208	37.747	N	135.005	W	18.60	19.74	D	0.71		1.14	
194.250	37.997	N	135.010	W	18.50	19.71	D	0.71		1.21	
194.292	38.230	N	135.005	W	18.80	19.68	D	0.71		0.88	
194.333	38.475	N	135.007	W	18.71	19.65	D	0.71		0.94	
194.375	38.723	N	135.015	W	18.77	19.63	D	0.71		0.86	
194.417	38.900	N	135.017	W	18.40	19.59	D	0.71		1.19	
194.458	39.217	N	135.017	W	18.32	19.20	D	0.71		0.88	
194.500	39.467	N	135.017	W	18.04	18.90	D	0.71		0.86	
194.542	39.715	N	135.017	W	17.58	19.20	D	0.72		1.62	D
194.583	39.955	N	135.028	W	17.04	19.20	D	0.72		2.16	D
194.625	39.993	N	134.975	W	17.11	18.80	D	0.72		1.69	D
194.667	40.002	N	135.000	W	17.03	18.49	D	0.72		1.46	
194.708	40.022	N	135.038	W	17.05	17.60	D	0.72		0.55	
194.750	40.020	N	135.060	W	17.07	17.60	D	0.72		0.53	
194.792	40.013	N	135.057	W	17.13	17.80	D	0.72		0.67	
194.833	40.003	N	135.032	W	17.21	18.00	D	0.72		0.79	
194.875	39.985	N	135.000	W	17.26	18.30	D	0.72		1.04	
194.917	40.003	N	134.995	W	17.26	18.26	D	0.72		1.00	
194.958	40.028	N	135.005	W	17.35	18.22	D	0.72		0.87	
195.000	40.147	N	134.998	W	17.30	18.18	D	0.72		0.88	
195.042	40.393	N	135.022	W	17.37	18.15	D	0.72		0.78	
195.083	40.617	N	135.018	W	17.24	18.11	D	0.72		0.87	
195.125	40.867	N	135.000	W	17.29	18.07	D	0.72		0.78	
195.167	41.100	N	134.967	W	16.92	18.03	D	0.72		1.11	
195.208	41.355	N	134.982	W	16.06	17.99	D	0.73		1.93	D
195.250	41.572	N	135.003	W	16.03	17.95	D	0.73		1.92	D

				RITS/CO2/EPOCS 1986								
Date GMT	Latitude	Longitude		Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
195.292	41.835	N	135.025	W	16.02		17.91	D	0.73		1.89	D
195.333	41.997	N	134.998	W	15.89		17.88	D	0.73		1.99	D
195.375	41.997	N	134.972	W	15.80		17.84	D	0.73		2.04	D
195.417	41.987	N	134.955	W	15.78		17.79	D	0.73		2.01	D
195.458	41.983	N	134.932	W	15.81		17.19	D	0.73		1.38	
195.500	41.988	N	134.953	W	15.80		16.50	D	0.73		0.70	
195.542	41.997	N	134.993	W	15.84		16.10	D	0.73		0.26	
195.583	41.933	N	134.900	W	15.81		16.20	D	0.73		0.39	
195.625	41.987	N	134.980	W	15.82		16.30	D	0.73		0.48	
195.667	41.990	N	134.963	W	15.82		16.30	D	0.73		0.48	
195.708	42.008	N	135.003	W	15.81		16.40	D	0.73		0.59	
195.750	42.000	N	134.995	W	15.81		16.40	D	0.73		0.59	
195.792	42.005	N	134.988	W	15.82		16.00	D	0.73		0.18	
195.833	41.998	N	134.997	W	15.83		15.98	D	0.73		0.15	
195.875	42.003	N	134.997	W	15.83		15.96	D	0.73		0.13	
195.917	42.023	N	134.987	W	15.86		15.94	D	0.73		0.08	
195.958	42.162	N	135.000	W	15.89		15.92	D	0.73		0.03	
196.000	42.350	N	134.983	W	15.35		15.90	D	0.73		0.55	
196.042	42.567	N	134.983	W	15.20		15.88	D	0.73		0.68	
196.083	42.817	N	135.000	W	15.22		15.86	D	0.73		0.64	
196.125	43.058	N	135.003	W	15.11		15.84	D	0.73		0.73	
196.167	43.303	N	135.000	W	15.04		15.82	D	0.73		0.78	
196.208	43.542	N	134.998	W	14.75		15.80	D	0.74		1.05	
196.250	43.788	N	135.003	W	14.74		15.78	D	0.74		1.04	
196.292	44.000	N	135.000	W	14.57		15.76	D	0.74		1.19	
196.333	44.013	N	134.995	W	14.46		15.74	D	0.74		1.28	
196.375	44.042	N	134.985	W	14.44		15.72	D	0.74		1.28	
196.417	44.135	N	134.975	W	14.41		15.69	D	0.74		1.28	
196.458	44.057	N	134.962	W	14.41		15.20	D	0.74		0.79	
196.500	44.063	N	134.953	W	14.43		15.20	D	0.74		0.77	
196.542	44.102	N	134.960	W	14.42		15.00	D	0.74		0.58	
196.583	44.252	N	134.943	W	14.20		15.00	D	0.74		0.80	
196.625	44.447	N	134.947	W	13.96		15.00	D	0.74		1.04	
196.667	44.665	N	134.942	W	14.02		14.79	D	0.74		0.77	
196.708	44.865	N	134.952	W	14.01		14.40	D	0.74		0.39	
196.750	45.080	N	134.975	W	13.87		14.60	D	0.74		0.73	
196.792	45.280	N	134.993	W	13.65		14.20	D	0.74		0.55	
196.833	45.492	N	135.017	W	13.78		14.40	D	0.74		0.62	
196.875	45.492	N	135.017	W	13.47		14.00	D	0.75		0.53	
196.917	45.687	N	135.005	W	13.36		13.90	D	0.75		0.54	
196.958	45.983	N	134.967	W	13.28		13.89	D	0.75		0.61	
197.000	45.967	N	135.000	W	13.29		13.88	D	0.75		0.59	
197.042	46.000	N	135.000	W	13.29		13.87	D	0.75		0.58	
197.083	46.000	N	135.033	W	13.29		13.86	D	0.75		0.57	
197.125	46.000	N	135.000	W	13.29		13.85	D	0.75		0.56	
197.167	46.017	N	135.017	W	13.30		13.85	D	0.75		0.55	
197.208	46.088	N	135.025	W	13.33		13.84	D	0.75		0.51	
197.250	46.305	N	135.028	W	13.42		13.83	D	0.75		0.41	
197.292	46.538	N	135.042	W	13.11		13.82	D	0.75		0.71	
197.333	46.538	N	135.042	W	12.88		13.81	D	0.75		0.93	

RITS/CO2/EPOCS 1986												
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
197.375	46.792	N	135.037	W	13.12		13.80	D	0.75		0.68	
197.417	47.290	N	135.000	W	12.89		13.80	D	0.75		0.91	
197.458	47.540	N	134.985	W	12.54		13.70	D	0.75		1.16	
197.500	47.867	N	134.983	W	12.21		13.80	D	0.75		1.59	
197.542	47.792	N	134.978	W	11.78		13.40	D	0.76		1.62	
197.583	47.983	N	135.030	W	11.77		13.30	D	0.76		1.53	
197.625	47.970	N	135.063	W	11.76		13.30	D	0.76		1.54	
197.667	47.968	N	135.072	W	11.77		12.79	D	0.76		1.02	
197.708	47.993	N	135.000	W	11.76		12.30	D	0.76		0.54	
197.750	47.990	N	134.993	W	11.77		12.40	D	0.76		0.63	
197.792	47.982	N	134.977	W	11.79		12.40	D	0.76		0.61	
197.833	47.978	N	134.967	W	11.81		12.50	D	0.76		0.69	
197.875	47.965	N	134.955	W	11.87		12.52	D	0.76		0.65	
197.917	47.975	N	134.957	W	11.92		12.53	D	0.76		0.61	
197.958	48.125	N	134.958	W	12.04		12.55	D	0.76		0.51	
198.000	48.367	N	134.992	W	12.13		12.56	D	0.76		0.43	
198.042	48.595	N	134.995	W	12.19		12.58	D	0.75		0.39	
198.083	48.848	N	134.983	W	12.00		12.59	D	0.76		0.59	
198.125	49.085	N	134.995	W	11.69		12.61	D	0.76		0.92	
198.167	49.337	N	134.985	W	11.74		12.62	D	0.76		0.88	
198.208	49.575	N	134.980	W	11.78		12.64	D	0.76		0.86	
198.250	49.832	N	134.988	W	11.80		12.65	D	0.76		0.85	
198.292	50.065	N	135.022	W	11.92		12.67	D	0.76		0.75	
198.333	50.017	N	135.000	W	11.98		12.68	D	0.76		0.70	
198.375	50.000	N	135.033	W	11.94		12.70	D	0.76		0.76	
198.417	50.000	N	135.000	W	11.91		12.69	D	0.76		0.78	
198.458	50.000	N	134.992	W	11.92		12.30	D	0.76		0.38	
198.500	50.002	N	135.015	W	11.95		12.30	D	0.76		0.35	
198.542	50.000	N	135.033	W	11.94		12.30	D	0.76		0.36	
198.583	50.002	N	135.043	W	11.90		12.60	D	0.76		0.70	
198.625	50.003	N	135.040	W	11.93		12.30	D	0.76		0.37	
198.667	50.003	N	135.003	W	12.00		12.50	D	0.76		0.50	
198.708	50.003	N	135.098	W	11.82		12.50	D	0.76		0.68	
198.750	50.002	N	135.393	W	11.61		12.50	D	0.76		0.89	
198.792	50.000	N	135.770	W	11.36		12.30	D	0.76		0.94	
198.833	50.000	N	136.117	W	11.41		12.20	D	0.76		0.79	
198.875	50.010	N	136.493	W	11.29		11.80	D	0.76		0.51	
198.917	50.012	N	136.860	W	11.32		12.00	D	0.76		0.68	
198.958	50.023	N	137.625	W	11.43		11.90	D	0.76		0.47	
199.000	50.022	N	137.987	W	11.22		12.00	D	0.76		0.78	
199.042	50.023	N	138.275	W	11.10	R	11.80	D	0.70		*	
199.083	50.023	N	138.345	W	11.07	R	11.77	D	0.70		*	
199.125	50.020	N	138.713	W	11.05	R	11.75	D	0.70		*	
199.167	50.015	N	139.083	W	11.02	R	11.72	D	0.70		*	
199.208	50.008	N	139.448	W	11.00	R	11.70	D	0.70		*	
199.250	49.998	N	139.860	W	10.97	R	11.67	D	0.70		*	
199.292	49.987	N	140.017	W	10.95	R	11.65	D	0.70		*	
199.333	49.972	N	140.020	W	10.93	R	11.63	D	0.70		*	
199.375	49.973	N	140.007	W	10.90	R	11.60	D	0.70		*	
199.417	49.978	N	140.003	W	11.09	R	11.79	D	0.70		*	

RITS/CO2/EPOCS 1986												
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag	
199.458	49.987	N	139.978	W	10.50	R	11.20	ID	0.70		*	
199.500	50.003	N	139.990	W	10.36		10.80	ID	0.77		0.44	
199.542	49.990	N	139.980	W	10.34		10.80	ID	0.77		0.46	
199.583	49.995	N	139.978	W	10.29		10.70	ID	0.77		0.41	
199.625	50.052	N	139.978	W	10.27		10.70	ID	0.77		0.43	
199.667	50.002	N	139.975	W	10.24		10.70	ID	0.77		0.46	
199.708	49.993	N	140.025	W	10.23		10.80	ID	0.77		0.57	
199.750	49.988	N	140.025	W	10.25		10.80	ID	0.77		0.55	
199.792	49.987	N	140.012	W	10.26		10.90	ID	0.77		0.64	
199.833	49.998	N	140.000	W	10.27		11.00	ID	0.77		0.73	
199.875	49.983	N	140.050	W	10.28		11.00	ID	0.77		0.72	
199.917	50.000	N	140.333	W	10.32		11.00	ID	0.77		0.68	
199.958	50.000	N	140.700	W	10.37		11.00	ID	0.77		0.63	
200.000	50.013	N	141.010	W	10.34		11.00	ID	0.77		0.66	
200.042	50.028	N	141.362	W	10.56		11.00	ID	0.77		0.44	
200.083	50.023	N	141.738	W	10.52		11.00	ID	0.77		0.48	
200.125	50.017	N	142.100	W	10.57		11.00	ID	0.77		0.43	
200.167	50.010	N	142.473	W	10.54		11.00	ID	0.77		0.46	
200.208	50.005	N	142.827	W	10.36		11.00	ID	0.77		0.64	
200.250	49.830	N	143.193	W	10.22		11.00	ID	0.77		0.78	
200.292	49.990	N	143.597	W	10.05		11.00	ID	0.77		0.95	
200.333	49.994	N	143.972	W	9.90		11.00	ID	0.77		1.10	
200.375	49.998	N	144.347	W	9.87		11.00	ID	0.77		1.13	
200.417	50.002	N	144.735	W	10.01		11.20	ID	0.77		1.19	
200.458	49.983	N	145.017	W	10.05		11.20	ID	0.77		1.15	
200.500	49.950	N	145.017	W	10.16		11.30	ID	0.77		1.14	
200.542	49.918	N	145.000	W	10.22		11.10	ID	0.77		0.88	
200.583	49.898	N	145.037	W	10.27		10.90	ID	0.77		0.63	
200.625	49.947	N	145.018	W	10.25		10.80	ID	0.77		0.55	
200.667	49.977	N	145.010	W	10.15		10.60	ID	0.77		0.45	
200.708	49.998	N	145.003	W	10.10		10.80	ID	0.77		0.70	
200.750	50.000	N	145.007	W	10.10		10.70	ID	0.77		0.60	
200.792	49.988	N	144.993	W	10.12		10.60	ID	0.77		0.48	
200.833	49.970	N	144.977	W	10.18		10.90	ID	0.77		0.72	
200.875	49.950	N	144.975	W	10.26		10.91	ID	0.77		0.65	
200.917	49.937	N	144.958	W	10.30		10.92	ID	0.77		0.62	
200.958	49.910	N	144.973	W	10.35		10.92	ID	0.77		0.57	
201.000	49.890	N	144.970	W	10.36		10.93	ID	0.77		0.57	
201.042	49.960	N	144.990	W	10.35		10.94	ID	0.77		0.59	
201.083	49.850	N	144.967	W	10.36		10.95	ID	0.77		0.59	
201.125	50.000	N	145.000	W	10.30		10.95	ID	0.77		0.65	
201.167	50.010	N	144.973	W	10.23		10.96	ID	0.77		0.73	
201.208	50.015	N	144.960	W	10.17		10.97	ID	0.77		0.80	
201.250	50.028	N	144.930	W	10.19		10.98	ID	0.77		0.79	
201.292	50.003	N	144.950	W	10.24		10.98	ID	0.77		0.74	
201.333	49.983	N	144.950	W	10.28		10.99	ID	0.77		0.71	
201.375	49.967	N	144.967	W	10.32		11.00	ID	0.77		0.68	
201.417	49.933	N	144.950	W	10.34		11.00	ID	0.77		0.66	
201.458	50.100	N	145.000	W	10.03		10.70	ID	0.77		0.67	
201.500	50.303	N	145.000	W	9.96		10.70	ID	0.77		0.74	

RITS/CO2/EPOCS 1986											
Date GMT	Latitude		Longitude	Tss	Flag	Teq	Flag	Regr. Warming	Flag	Point-by-point	Flag
201.542	50.548	N	145.003	W	10.04	10.90	D	0.77		0.86	
201.583	50.787	N	145.020	W	10.02	10.90	D	0.77		0.88	
201.625	51.032	N	145.005	W	10.03	10.50	D	0.77		0.47	
201.667	51.263	N	144.985	W	9.98	10.50	D	0.77		0.52	
201.708	51.510	N	144.970	W	10.06	10.60	D	0.77		0.54	
201.750	51.730	N	144.918	W	10.26	10.80	D	0.77		0.54	
201.792	51.960	N	144.977	W	10.12	10.90	D	0.77		0.78	
201.833	52.157	N	144.965	W	9.95	10.70	D	0.77		0.75	
201.875	52.165	N	144.985	W	9.93	10.70	D	0.77		0.77	
201.917	52.168	N	144.982	W	10.01	10.80	D	0.77		0.79	
201.958	52.168	N	144.982	W	10.01	10.80	D	0.77		0.79	
202.000	52.165	N	145.000	W	10.09	10.80	D	0.77		0.71	
202.042	52.177	N	144.997	W	10.11	10.80	D	0.77		0.69	
202.083	52.170	N	144.977	W	10.13	10.80	D	0.77		0.67	
202.125	52.278	N	144.967	W	9.93	10.80	D	0.77		0.87	
202.167	52.497	N	144.958	W	9.80	10.80	D	0.77		1.00	
202.208	52.738	N	144.950	W	9.38	10.80	D	0.78		1.42	
202.250	52.977	N	144.950	W	9.48	10.80	D	0.77		1.32	
202.292	53.227	N	144.973	W	9.58	10.80	D	0.77		1.22	
202.333	53.483	N	144.983	W	9.60	10.80	D	0.77		1.20	
202.375	53.767	N	145.000	W	9.85	10.80	D	0.77		0.95	
202.417	53.967	N	145.000	W	9.50	10.70	D	0.77		1.20	
202.458	54.283	N	145.000	W	10.09	10.90	D	0.77		0.81	
202.500	54.320	N	145.007	W	10.16	10.80	D	0.77		0.64	
202.542	54.335	N	145.027	W	10.04	10.10	D	0.77		0.06	
202.583	54.330	N	145.025	W	9.90	10.30	D	0.77		0.40	
202.625	54.323	N	145.002	W	9.92	10.40	D	0.77		0.48	
202.667	54.320	N	145.013	W	9.91	10.69	D	0.77		0.78	
202.708	54.320	N	145.013	W	9.79	10.20	D	0.77		0.41	
202.750	54.530	N	145.002	W	9.87	10.30	D	0.77		0.43	
202.792	54.768	N	144.985	W	9.70	10.30	D	0.77		0.60	
202.833	55.023	N	144.985	W	9.69	10.01	D	0.77		0.32	
202.875	55.267	N	144.977	W	9.82	10.80	D	0.77		0.98	
202.917	55.512	N	145.002	W	9.76	10.81	D	0.77		1.05	
202.958	55.755	N	145.047	W	10.05	10.82	D	0.77		0.77	
203.000	56.000	N	145.017	W	10.31	10.83	D	0.77		0.52	
203.042	56.252	N	144.997	W	10.42	10.83	D	0.77		0.41	
203.083	56.333	N	144.900	W	10.40	10.84	D	0.77		0.44	
203.125	56.350	N	144.917	W	10.36	10.85	D	0.77		0.49	
203.167	56.350	N	144.930	W	10.35	10.86	D	0.77		0.51	
203.208	56.355	N	144.795	W	10.32	10.87	D	0.77		0.55	
203.250	56.360	N	145.000	W	10.39	10.88	D	0.77		0.49	
203.292	56.365	N	145.020	W	10.37	10.88	D	0.77		0.51	
203.333	56.367	N	145.055	W	10.34	10.89	D	0.77		0.55	
203.375	56.367	N	145.117	W	10.35	10.90	D	0.77		0.55	
203.417	56.367	N	145.083	W	10.36	10.51	D	0.77		0.15	
203.458	56.400	N	145.233	W	10.64	11.00	D	0.77		0.36	
203.500	56.460	N	145.530	W	10.78	11.00	D	0.76		0.22	