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Environmental Measurements Laboratory

PROJECT AIRSTREAM: TRACE GAS FINAL REPORT

Robert Leifer

December 1992



DEPARTMENT OF ENERGY

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**Environmental Measurements Laboratory
U. S. Department of Energy
New York, NY 10014-3621**

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ABSTRACT

The results of 10 years of sampling for trace gases in the upper troposphere and lower stratosphere are presented. These samples were collected under the auspices of the Atomic Energy Commission (AEC), the Energy Research and Development Administration (ERDA) and the Department of Energy (DOE). Almost 1000 whole air samples were collected during the years 1973 to 1983 under Project AIRSTREAM. Project AIRSTREAM was part of the Environmental Measurements Laboratory's (EML, at that time called the Health and Safety Laboratory/HASL) research effort to investigate the impact of the injection of radionuclides and stable compounds into the stratosphere. One or more of the following compounds were analyzed: CCl_3F , CCl_2F_2 , CCl_4 , N_2O , SF_6 , CO_2 , CH_4 , CH_3CCl_3 , and COS . Details of the Project's quality assurance program are discussed. Also included in the report are two-dimensional plots of the concentration of CCl_3F and a complete tabulation of the data.

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INTRODUCTION

Project AIRSTREAM was part of the High Altitude Sampling Program (HASP). Project AIRSTREAM employed a WB-57F aircraft (Figure 1) that was operated by the Air Force during the years 1967 through 1973 and by the National Aeronautics and Space Administration from 1973 to 1983. Filter and whole air samples were collected in the stratosphere of the Northern and Southern Hemispheres for nuclear and nonnuclear studies. In a regular budgeting year, under Project AIRSTREAM, sampling missions were flown during the spring, summer, and fall in the Northern Hemisphere. In earlier years, prior to 1975, missions were also flown in the Southern Hemisphere. The latitude coverage extended from 75°N to 51°S depending on the sampling year. Four altitudes were sampled at each latitude, ranging as low as 12 km in the polar region to a maximum of 19 km. After 1976 (Figure 2), vertical profiles were added to the program at 6°N, 30°N, and 60°N, and they provided tropospheric samples for the nonnuclear aspect of this research program. After the initiation of the vertical profiles, sampling was limited to the latitude band between 75°N and the equator. Because only one aircraft was available to the project, approximately three weeks were needed to complete each mission. During the summer of 1981, the regularly scheduled mission was modified to collect samples from 50°N and 50°S.

By the time 1983 arrived, stratospheric concentrations of radionuclides were very low. In addition, due to budget constraints the Department of Energy's Office of Health and Environmental Research changed priorities and Project AIRSTREAM was discontinued.

This report provides information on all the whole air samples collected during Project AIRSTREAM missions (1973-1983). The results of the analyses of the samples from these missions are reproduced in a series of tables. A computer disk containing the trace gas data, formatted for the Macintosh, can be obtained from the author.

OBJECTIVES AND ACCOMPLISHMENTS

The objectives for Project AIRSTREAM were:

1. To document the concentrations of radioactivity in the stratosphere as a function of latitude, altitude and season;
2. To document the concentrations of selected stable tracers (particulate and gas) in the stratosphere as a function of latitude, altitude and season;
3. To compute stratospheric burdens of critical tracers;
4. To study vertical transport in the troposphere;
5. To test, modify and develop stratospheric transport models; and
6. To supply basic data for other scientific programs in studying the ultimate deposition of these tracers in the environment.

This program provided the major input data for predictions of future doses to man from nuclear tests as developed in the 1972 and 1977 reports of the United Nations Scientific Committee on the Effects of Atomic Radiation.

SAMPLING SYSTEMS

During the late 1950s, a high pressure gas sampling system, designated "P-System," was designed for the Defense Atomic Support Agency to evaluate worldwide fallout from nuclear weapons tests (Figure 3). This gas sampling system was used in Project AIRSTREAM for the collection and subsequent analysis of various atmospheric radionuclide gases. Fifteen-liter stainless steel spheres were pressurized up to 200 atmospheres and provided air samples for the analysis of $^{14}\text{CO}_2$, ^{85}Kr and ^{222}Rn . Engine bleed air was compressed using a specially designed oil compressor. At times, the oil in the compressor reached high enough temperatures to cause erroneous $^{14}\text{CO}_2$ measurements. Corrected $^{14}\text{CO}_2$ concentrations were obtained by measuring the $^{13}\text{C}/^{12}\text{C}$ ratio in the contaminated gas samples (Hagemann *et al.*, 1965).

Trichlorofluoromethane (CCl_3F) and sulfur hexafluoride (SF_6) are highly stable gaseous pollutants that were being released to the atmosphere in large quantities with no known tropospheric sinks. These compounds were considered to be ideal tracers for a global atmospheric diffusion study which EML (formerly HASL) initiated, in cooperation with the Air Resources Laboratory, NOAA, in November 1973. Early in 1973, Project AIRSTREAM was modified to include sampling of the stratosphere for halocarbons and SF_6 gases. Inert gases such as CCl_3F and SF_6 originating at the earth's surface would act as excellent tracers of stratospheric motion. Subsequently, Molina and Roland (1974) showed that once CCl_3F reached the upper stratosphere, ultraviolet light would photodissociate the molecule, releasing chlorine atoms that ultimately would reduce the ozone concentration in the stratosphere. The potential hazard of the photochemistry of CCl_3F upon the ozone shield in the stratosphere was recognized, which gave an added dimension and urgency to EML's investigation.

In recent years, many halogen compounds have been measured in the atmosphere (Rasmussen and Khalil, 1980a) and identified as potential candidates for modifying the stratospheric ozone layer. Because of the need to measure some of these new halogen compounds in the stratosphere, a thorough investigation of the capability of the P-system spheres to provide representative air samples was carried out. Contamination problems in the P-system (Leifer *et al.*, 1978) limited the analysis of collected atmospheric samples for nonnuclear compounds to CCl_3F , CCl_2F_2 , CCl_4 , N_2O and SF_6 . Data on these five compounds have been reported in the literature (Krey *et al.*, 1974, 1977a,b; Leifer *et al.*, 1979a,b, 1980a, 1981a,b, 1982), and have provided information on hemispheric distributions and stratospheric inventories.

The P-system was subsequently replaced with a new sampler. Because of the P-system's capability of collecting large volumes of air, it would still be used for special studies involving radionuclides. For nonnuclear compounds, a new clean air sampling system, designated CLASS, was built, tested and replaced the P-System in 1981 (Figure 4). In addition to the original five compounds analyzed from the P-system air samples, the new system provided samples for the analysis of CO , CO_2 , CH_4 , CH_3CCl_3 and COS . These new gases were integrally involved in stratospheric problems associated with the ozone destruction or climate change. Of the 10 compounds analyzed, only CO concentrations are not reported in this report. Stability studies for this gas were questionable and we did not have sufficient time (the program ended 1983) to develop the quality assurance program necessary to establish the credibility of this gas and include it in the database. The data are available only by special request.

P-SYSTEM

Instrument Design

Air from the 16th stage of the TF-33 jet engine compressor of the WB-57F (bleed air) was piped through the fuselage up to a sampling bay that was located in the bombay of the aircraft. There the air was compressed further by an oil-lubricated four-stage compressor, on command from the cockpit, into a 30-cm diameter nickel coated stainless steel sphere to a maximum pressure of 200 atmospheres. Prior to use, these spheres are vacuum baked for about 8 hours at 110°C and 0.01 mm of Hg and filled with 1.4 atmospheres of ultra high purity nitrogen to remove all measurable quantities of the gases of interest to this program. When installed in the WB-57F, the sampling system (P-system) could pressurize four spheres sequentially, each sampling on command from the navigator in the aircraft.

Quality Assurance Program

Surface validation experiment - In 1976 the aircraft P-System was tested at the surface for possible systematic losses of chlorofluorocarbons as air passed through the engine compressors (Lagomarsino, 1976). The test was conducted at Ellington Air Force Base, NASA Johnson Space Center where ambient air, bleed air and compressed air were measured under various engine power settings. It was concluded that for CCl_3F and CCl_4 there were no systematic losses in the sampling system and the measured bottle concentrations for each compound agreed to within 10% of the ambient measurements.

Stratospheric validation experiment - In 1977 the P-system was evaluated for collection efficiency at sampling altitudes using special stainless steel grab samplers developed by Los Alamos National Laboratory (LANL). The sampled air from the LANL cylinder and P-system spheres was analyzed for CCl_3F and there was excellent agreement in the measured concentrations between the two samplers (Leifer *et al.*, 1977).

Round-robin comparison - During 1979 seven P-systems spheres were analyzed for one or more of the following compounds, CCl_3F , CCl_2F_2 , CCl_4 , SF_6 and N_2O , in a round-robin exchange between Washington State University (WSU), Oregon Graduate Center (OGC), Brookhaven National Laboratory (BNL) and EML. WSU systematically reported SF_6 concentrations 26% lower than the other laboratories. The mean difference between laboratories for the concentrations CCl_3F , CCl_2F_2 , CCl_4 , SF_6 and N_2O was found to be 6%, 4%, 9%, 2% and 3%, respectively. The SF_6 difference did not include WSU's data (Leifer *et al.*, 1980b).

Samples were also exchanged between OGC, EML, and NOAA for CO_2 analyses using special glass sampling bottles and stainless steel containers. Agreement between laboratories was better than 2% for CO_2 .

Quality control samples - During the years 1977-1979, WSU, under contract to EML, received quality control gas samples for the analysis of CCl_3F , CCl_2F_2 , CCl_4 and N_2O . Four types of blind samples were submitted to WSU for analysis: 1) spheres routinely sent as part of an AIRSTREAM shipment; 2) spheres that were reanalyzed after 2 years; 3) spheres used as part of a round robin exchange; and 4) quality control spheres. Each shipment sent to WSU included unknowns, splits and blanks. The average ratio of the concentrations measured by

EML to that measured by WSU was 1.01 for N_2O , 0.99 for CCl_3F and 0.98 for CCl_4 . The precision of the analyses for split samples was within 3% for the four gases (Leifer *et al.*, 1978, 1979c, 1980b).

CLEAN AIR SAMPLING SYSTEM (CLASS)

Instrument Design

CLASS, which contained sample bottles, pump and control equipment (Figure 3), was mounted onto the aircraft P-System sampling tray and utilized all the P-System wiring to connect to the aircraft's power and the navigator (Leifer *et al.*, 1981c,d). The sampling cycle was initiated by the navigator who only had to throw a single switch to start an internally programmed cycle. A purging system flushed the sampling probes during ascent and descent and just prior to collection. The CLASS consisted of nine 3-L stainless steel containers manufactured to stringent specifications. Because of FAA regulations, the internal pressure of the sample bottles never exceeded 40 psig. After collection, the sample bottles were shipped to the contractor laboratory for chemical analyses.

Quality Assurance Program

Validation experiment; P-system versus CLASS - On a sampling flight in 1981 the CLASS system and the P-System were flown simultaneously. Analyses of four sets of samples showed excellent agreement between the two sampling systems. The ratio of measured concentrations between the P-System and CLASS for CCl_3F , CCl_2F_2 , CCl_4 , N_2O and SF_6 was found to be 0.95, 0.99, 0.98, 0.99 and 0.93, respectively (Leifer *et al.*, 1981c).

Stability studies - OGC evaluated the CLASS sampling bottles for their long-term stability of analyzed trace gases (CCl_3F , CCl_2F_2 , CCl_4 , N_2O , SF_6 , CO_2 , CH_4 , CH_3CCl_3 and COS). Over a 6-month period no discernible changes in concentration were found (Rasmussen, 1981).

Interlaboratory comparison: halocarbons - The OGC, being a world leader in the measurement of trace gas species in the atmosphere, ran a round-robin comparison of samples containing different concentrations of N_2O , CCl_3F , CCl_2F_2 and CH_3CCl_3 . Samples were sent to 19 laboratories for analysis. The results of this study (Rasmussen and Khalil, 1980b) indicated that for those laboratories using the same standards as OGC the differences between the laboratories were better than 5% for all gases. EML participated in this round robin and our results fell within the 5% difference. For the remaining gases, CO_2 , CH_4 and COS, Rasmussen established internal quality assurance standards and participated in many laboratory intercomparisons. The precision and accuracy was better than 5% for COS and better than 1% for CO_2 and CH_4 (Rasmussen, 1992).

SUMMARY

Based on our best estimate, the sampling and analytical uncertainty of the HASP data are better than 5% for N_2O , 10% for CCl_3F and 5% for SF_6 . The analysis of split samples gave a mean standard deviation of better than 5% for all the gases. For the gases CCl_2F_2 , CH_3CCl_3 , CO_2 , CH_4 , CCl_4 and COS , the sampling and analytical uncertainty are better than 5%. The analysis of replicate samples gave a mean standard deviation of better than 2% for all the gases. Replicate samples were analyzed with a better precision than split samples.

Using Rasmussen's published calibrations (Rasmussen and Khalil, 1986) for N_2O , CCl_3F , CCl_2F_2 , CH_3CCl_3 , CH_4 , and CCl_4 , the HASP data were updated to reflect these new standards. Few researchers have worked with sulfur hexafluoride and no extensive interlaboratory calibrations studies are available. Our confidence in the measurements of SF_6 are based on the exchange of samples between OGC and EML and the round-robin comparisons. The SF_6 analyses from these studies agreed to better than 2%.

DATABASE

During the years 1974 to 1976, the P-system sphere samples were analyzed at EML. Subsequently, WSU (1976-1979) and OGC (1980-1983) were under contract to EML to analyze gas samples. During the period (1974-1983), 980 gas samples were analyzed for one or more of the following gases CCl_3F , CCl_2F_2 , CCl_4 , CH_3CCl_3 , SF_6 , N_2O , CO_2 , CH_4 and COS using gas chromatography and electron capture, flame ionization or mass spectrometer detection depending on the compound (Chieco *et al.*, 1990; Leifer *et al.*, 1980b; Rasmussen *et al.*, 1982). The data have been organized by compounds into a series of tables (Tables 1-9). Included in each table are the following:

EML NUM: Every P-system sphere was given a number starting with a "G". The CLASS samples were given a 5-digit number. The first or units digit represented the bottle number. The 2 and 3rd digits (tens and hundreds digits) represented the package number and the last two digits (thousands and ten thousands) represented the AIRSTREAM flight number. Thus 29048 represents the 8th bottle of the 4th package on AIRSTREAM mission 29.

FLIGHT Date: This is the gas sample collection date.

ALT (km): This is the gas sample collection altitude.

TROP (km): This is the tropopause height.

NORMAL ALT: This is a derived altitude obtained by subtracting the tropopause altitude from the sampling altitude. A negative number represents a sample collected in the troposphere, while a positive number refers to a stratospheric sample.

BEGIN LAT: This is the latitude in which the sample bottle was started to be filled.

END LAT: This is the latitude in which the filling of the sample bottle ended.

BEGIN LONG: This is the longitude in which the sample bottle was started to be filled.

END LONG: This is the longitude in which the filling of the sample bottle ended.

LAB: This is the analytical laboratory performing the chemical analysis on the HASP samples. HASL: Health and Safety Laboratory of the Atomic Energy Commission, now the Environmental Measurements Laboratory (EML); WSU, Washington State University; OGC, Oregon Graduate Center.

CONC: The concentration reported is the average of at least duplicate analyses.

ERROR: The error represents the 1 sigma deviation from the mean.

GRAPHIC PRESENTATION OF DATA

To illustrate the uniqueness of the HASP database, plots of CCl_3F are included in this report. Data on other gases from Project AIRSTREAM have been published in various journals over the last decade. A list of citations containing all references associated with the gas analyses can be found on page 12.

Shown in Figures 5-27 are 2-dimensional plots of CCl_3F concentrations for the years spanning 1973-1983. The measured concentrations of CCl_3F in units of pL L^{-1} are plotted as a function of the sine of the latitude and altitude (pressure). Lines of constant concentration (isopleths) are plotted in the figures and represent a smoothed approximation to the data. The sampling extends over a 3-week period and the isopleths do not represent an instantaneous period of the stratosphere, but rather a latitude-altitude profile averaged over this time period. The tropopause represents the average height over the sampling period and the data was obtained from the National Weather Service. Whenever there was missing tropopause data, extrapolated values were calculated. The contours drawn for other gases related to ozone destruction (not shown) within a single season have similar hemispheric shapes and provide additional evidence for the integrity of the data set.

In late 1983 we planned on expanding the program by increasing the number of collection packages to 15. This would have increased the total number of samples to 135 per mission. Figure 27 represents a single flight (September 1983) using one CLASS package containing nine sample bottles. It is evident that the small concentration gradients measured provides further evidence to the excellent precision of the analyses. Other gases measured in AIRSTREAM, but not shown here have similar patterns.

ACKNOWLEDGMENTS

Over the decades of the 1970s and 1980s, hundreds of people have been involved in Project AIRSTREAM. I would like to thank every person individually, if it were feasible, but that is not possible. Therefore, I will name just a few people here with the understanding that all were extremely important. I would like to thank the mission managers, engineering staff, flight crew, and support staff of NASA/ JSC for helping to make the program possible. In addition I would like to thank Los Alamos National Laboratory, and specifically, Paul Guthals, William Sedlacek, Eugene Mroz, Allen Mason and Joe Breslin for their support in all aspects of the program. A special thank you goes to all those coworkers at HASL (or EML) who were involved in the design, engineering, construction, and data analysis of Project AIRSTREAM. I want to thank Raymond Lagomarsino of EML, Dagmar Cronn of WSU, and Reinhold Rasmussen of OGC for all the chemical analyses of the sample bottles. A special thank you goes to the EML secretarial and editorial staff, especially Nancy Chieco, who helped in preparation of all technical papers associated with the program. Finally, without the encouragement and support of Edward P. Hardy of EML this program would not have achieved its set out goals.

REFERENCES

- Chieco, N. A., D. C. Bogen and E. O. Knutson
"EML Procedures Manual"
HASL-300, 27th Edition, Vol. 1, November (1990)
- Hagemann, F. T., J. Gray, and L. Machta
"Carbon 14 Measurements in the Atmosphere - 1953 to 1964"
USAEC Report HASL-159, New York, April (1965)
- Krey, P. W., M. Schonberg, and L. E. Toonkel
"Updating Stratospheric Inventories to January 1973"
USAEC Report HASL-281, pp. I-130 to I-142, New York (1974)
- Krey, P. W., R. J. Lagomarsino, and L. E. Toonkel
"Stratospheric Concentrations of N₂O in July 1975"
Geophys. Res. Lett., 4, 271-274 (1977a)
- Krey, P. W., R. J. Lagomarsino, and L. E. Toonkel,
"Gaseous Halogens in the Atmosphere in 1975"
J. Geophys. Res., 82, 1753-1766 (1977b)
- Lagomarsino R. J.
"Results of a Ground Test to Determine the Stability of Halocarbons through the WB-57F
Aircraft Gaseous Sampling Pressure System (P-system) Platform"
USERDA Technical Memorandum HASL TM-76-5, May (1976)
- Leifer, R., R. Glen, P. W. Krey, R. J. Lagomarsino, and C. White
"Airstream Air Sampling Program - P-System Validation Experiments"
USERDA Report HASL-318, New York (1977)
- Leifer, R., R. J. Lagomarsino, L. E. Toonkel, and R. Larsen
"Project Airstream: Quality of Analysis of High Altitude Gas Samples"
USDOE Report EML-342, pp. I-79 to I-87, New York (1978)
- Leifer, R., R. Larsen, and L. E. Toonkel
"Stratospheric Distributions and Inventories of Trace Gases in the Northern Hemisphere for
1976"
USDOE Report EML-349, pp. I-211 to I-234, New York (1979a)
- Leifer, R., L. E. Toonkel, and R. Larsen
"Project Airstream: Radioactivity in the Lower Stratosphere, Trace Gases in the Stratosphere"
USDOE Report EML-363, pp. II-7 to II-122, New York (1979b)
- Leifer, R., R. Larsen, and L. E. Toonkel
"Project Airstream: Analysis of Quality Control Gas Samples"
USDOE Report EML-349, pp. I-205 to I-209, New York (1979c)

- Leifer, R., L. E. Toonkel, R. Larsen, and R. J. Lagomarsino
 "Trace Gas Concentrations in the Stratosphere of the Northern Hemisphere during 1976"
 J. Geophys. Res., 85, 1069-1072 (1980a)
- Leifer, R., R. J. Lagomarsino, and R. Larsen
 "Project Airstream: Analysis of Quality Control Gas Samples"
 USDOE Report EML-381, pp. I-129 to I-137, New York (1980b)
- Leifer, R., K. G. Sommers, and S. F. Guggenheim
 "Atmospheric Trace Gas Measurements with a New Clean Air Sampling System"
 Geophys. Res. Lett., 8, 1079-1081 (1981a)
- Leifer, R., L. E. Toonkel, and R. Larsen
 "Project Airstream: Radioactivity in the Lower Stratosphere, Trace Gases in the Stratospheric"
 USDOE Report EML-390, pp. II-21 to II-185, New York (1981b)
- Leifer, R., K. G. Sommers, S. F. Guggenheim, and I. M. Fisenne
 "Recent Developments in High Altitude Aircraft Sampling; Mount St. Helens and
 Stratospheric Trace Gases"
 IEEE Nuclear Science Symposium, Orlando, Florida, November 5-7 (1981c)
- Leifer, R., R. Larsen, and L. E. Toonkel
 "Stratospheric Distributions, Inventories and Trends of Trace gases in the Northern Hemisphere
 for 1977-1979"
 USDOE Report EML-390, pp. I-355 to I-406, New York (1981d)
- Leifer, R., R. Larsen, and L. E. Toonkel
 "Trends in Stratospheric Concentrations of the Trace Gases in the Northern Hemisphere during
 the Years 1974-1979"
 Geophys. Res. Lett., 9, 755-758 (1982)
- Molina, M. J. and F. S. Rowland
 "Stratospheric Sink for Chlorofluoromethanes: Chlorine Atom Catalyzed Destruction of Ozone"
 Nature, 249, 810-812 (1974)
- Rasmussen, R. A. and M. A. K. Khalil
 "Atmospheric Halocarbons: Measurements and Analyses of Selected Trace Gases"
 Proceedings of the NATO Advanced Study Institute on Ozone, A.C. Aiken, Ed. U.S. Dept. of
 Transportation, Washington, D.C. (1980a)
- Rasmussen, R. A. and M. A. K. Khalil
 "Interlaboratory Comparison of F-11, F-12, CH₃CCl₃ and N₂O Measurements"
 Oregon Graduate Center Technical Report (1980b)
- Rasmussen, R. A.
 Personal communication, Oregon Graduate Center (1981)
- Rasmussen, R. A.
 Personal communication, Oregon Graduate Center (1992)

Rasmussen, R. A., M. A. K. Khalil, R. W. Dalluge, S. A. Penkett and B. Jones
"Carbonyl Sulfide and Carbon Disulfide from the Eruption of Mount St. Helens"
Science, 215, 665-667 (1982)

Rasmussen, R. A. and M. A. K. Khalil
"Atmospheric Trace Gases: Trends and Distributions Over the Last Decade"
Science, 232, pp. 1623-1624 (1986)

CITATION LIST

- Krey, P. W., R. J. Lagomarsino, M. Schonberg, and J. J. Frey
"Halocarbons in the Stratosphere"
USERDA Report HASL-298, pp. I-83 to I-106, New York (1976)
- Krey, P. W., R. J. Lagomarsino, M. Schonberg, and L. E. Toonkel
"Trace Gases in the Stratosphere"
USERDA Report HASL-302, pp. I-21 to I-49, New York (1976)
- Krey, P. W., R. J. Lagomarsino, L. E. Toonkel, and M. Schonberg
"Atmospheric Residence of SF₆"
USERDA Report HASL-302, pp. I-50 to I-49, New York (1976)
- Krey, P. W., R. J. Lagomarsino, and L. E. Toonkel
"Gaseous Halogens in the Atmosphere in 1975"
J. Geophys. Res., 82, 1753-1766 (1977)
- Lagomarsino, R. J.
"Results of a Ground Test to Determine the Stability of Halocarbons Through the WB-57F
Aircraft Gaseous Sampling Pressure System (P-system) Platform"
USERDA Report HASL-TM-76-5, New York, May (1976)
- Leifer, R., R. Glen, P. W. Krey, R. J. Lagomarsino, and C. White
"Airstream Air Sampling Program - P-System Validation Experiments"
USERDA Report HASL-318, pp. I-77 to I-89, New York (1977)
- Leifer, R., R. J. Lagomarsino, L. E. Toonkel, and R. Larsen
"Project Airstream: Quality of Analysis of High Altitude Gas Samples"
USDOE Report EML-342, pp. I-79 to I-87, New York (1978)
- Leifer, R., L. E. Toonkel, and R. Larsen
"Project Airstream: Radioactivity in the Lower Stratosphere, Trace Gases in the Stratosphere"
USDOE Report EML-342, pp. II-92 to II-126, New York (1978)
- Leifer, R., R. Larsen, and L. E. Toonkel
"Project Airstream: Analysis of Quality Control Gas Samples"
USDOE Report EML-349, pp. I-205 to I-209, New York (1979)
- Leifer, R., R. Larsen, and L. E. Toonkel
"Stratospheric Distribution and Inventories of Trace Gases in the Northern Hemisphere
for 1976"
USDOE Report EML-349, I-211 to I-233, New York, January (1979)
- Leifer, R., R. Larsen, and L. E. Toonkel
"Project Airstream: Analysis of Quality Control Gas Samples"
USDOE Report EML-363, New York (1979)

- Leifer, R., L. E. Toonkel, and R. Larsen
 "Project Airstream: Radioactivity in the Lower Stratosphere, Trace Gases in the Stratosphere"
 USDOE Report EML-363, pp. II-7 to II-122, New York (1979)
- Leifer, R., R. J. Lagomarsino, and R. Larsen
 "Project Airstream: Analysis of Quality Control Gas Samples"
 USDOE Report EML-381, pp. I-129 to I-137, New York (1980)
- Leifer, R., R. Larsen, and L. E. Toonkel
 "Project Airstream: Analysis of Quality Control Gas Samples"
 USDOE Report EML-390, pp. II-96 to II-203, New York (1981)
- Leifer, R., R. Larsen, and L. E. Toonkel
 "Stratospheric Distributions, Inventories and Trends of Trace Gases in the Northern Hemisphere for 1977-1979"
 USDOE Report EML-390, pp. I-355 to I-406, New York (1981)
- Leifer, R., L. E. Toonkel, and R. Larsen
 "Project Airstream: Radioactivity in the Lower Stratosphere, Trace Gases in the Stratosphere"
 USDOE Report EML-390, pp. II-7 to II-122, New York (1981)
- Leifer, R., R. Larsen, and L. E. Toonkel
 "Project Airstream: Analysis of Quality Control Gas Samples"
 USDOE Report EML-395, pp. II-105 to II-137, New York (1981)
- Leifer, R., K. Sommers, and S. F. Guggenheim
 "Atmospheric Trace Gas Measurements with a New Clean Air Sampling System and Stratospheric Plume Measurements from the July 22, 1980 Eruption of Mount St. Helen"
 Geophys. Res. Lett. , 8, 1079-1081 (1981)
- Leifer, R., L. E. Hinchliffe, I. M. Fisenne, H. Franklin, E. O. Knutson, M. Olden, W. Sedlacek, E. Mroz, and T. Cahill
 "Measurements of the Stratospheric Plume from Mount St. Helen Eruption: Radioactivity and Chemical Composition"
 Science, 214, 904-907 (1981)
- Leifer, R., R. Larsen, and L. E. Toonkel
 "Project Airstream: Analysis of Quality Control Gas Samples"
 USDOE Report EML-405, pp. II-247 to II-276, New York (1982)
- Leifer, R., R. Larsen, and L. E. Toonkel
 "Trends in Stratospheric Concentrations of Trace Gases in the Northern Hemisphere During the Years 1974-1979"
 J. Geophys. Res. Ltrs., 9, 755-758 (1982)
- Leifer, R., Z. R. Juzdan, and R. J. Larsen
 "COS in the Stratosphere: El Chichon Observations"
 Geophysical Review Letters, 11, 549-552 (1984)

Leifer, R. and Z. R. Juzdan

"Measurements of CCl_3F , CCl_2F_2 , CCl_4 , N_2O and SF_6 in the Northern Hemisphere Stratosphere"
S. Kato, Editor, MAP Handbook, 18, 355-358 (1985)

Leifer, R.

"Ten Years of CCl_3F Measurements in the Stratosphere: Model Comparisons for the
Northern Hemisphere"

in: *Aerosols and Climate*, Peter V. Hobbs, and M. Patrick McCormick (editors), A. Deepak
Publishing (1988)

Leifer, R.

"Project Airstream: COS Measurements in the Stratosphere and Troposphere"

J. Geophys. Res., 94, 5173-5181 (1989)

Mroz, E. J., A. S. Mason, R. Leifer, Z. R. Juzdan

"Stratospheric Impact of El Chichon"

Geof. Int., 23, 321-333 (1984)

TABLE 1

CONCENTRATION OF CCL_3F IN PROJECT AIRSTREAM SAMPLES
(pL L⁻¹)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 3	11/07/73	15.2	13.0	2.2	37-N	41-N	108-W	112-W	HASL	44	4
G 2	11/07/73	15.2	13.0	2.2	37-N	41-N	108-W	112-W	HASL	54	1
G 7	11/07/73	15.2	11.7	3.5	41-N	46-N	112-W	114-W	HASL	47	4
G 6	11/07/73	15.2	11.7	3.5	41-N	46-N	112-W	114-W	HASL	50	2
G 5	11/07/73	15.2	11.7	3.5	41-N	46-N	112-W	114-W	HASL	54	5
G 4	11/07/73	15.2	11.7	3.5	41-N	46-N	112-W	114-W	HASL	58	3
G 9	11/07/73	15.2	9.9	5.3	46-N	50-N	114-W	118-W	HASL	47	4
G 8	11/07/73	15.2	9.9	5.3	46-N	50-N	114-W	118-W	HASL	49	2
G 15	11/07/73	13.7	9.9	3.8	48-N	45-N	116-W	114-W	HASL	60	6
G 14	11/07/73	13.7	9.9	3.8	48-N	45-N	116-W	114-W	HASL	59	2
G 13	11/07/73	13.7	9.9	3.8	51-N	48-N	119-W	116-W	HASL	47	4
G 10	11/07/73	13.7	9.9	3.8	51-N	48-N	119-W	116-W	HASL	56	3
G 11	11/07/73	13.7	9.9	3.8	51-N	48-N	119-W	116-W	HASL	66	6
G 12	11/07/73	13.7	9.9	3.8	51-N	48-N	119-W	116-W	HASL	55	2
G 23	02/14/74	13.7	13.0	.7	35-N	35-N	99-W	102-W	HASL	54	3
G 16	02/14/74	13.7	11.0	2.7	37-N	40-N	102-W	96-W	HASL	52	2
G 17	02/14/74	13.7	11.0	2.7	37-N	39-N	102-W	95-W	HASL	42	3
G 21	02/14/74	13.7	11.0	2.7	39-N	36-N	95-W	98-W	HASL	52	2
G 20	02/14/74	13.7	11.0	2.7	39-N	36-N	95-W	98-W	HASL	46	2
G 18	02/14/74	13.7	11.0	2.7	40-N	39-N	95-W	95-W	HASL	46	3
G 19	02/14/74	13.7	11.0	2.7	40-N	39-N	95-W	95-W	HASL	43	2
G 34	04/20/74	16.8	16.5	.3	0-S	3-S	79-W	79-W	HASL	67	6
G 37	04/17/74	18.5	16.2	2.3	3-S	0-S	80-W	79-W	HASL	60	3
G 35	04/20/74	19.2	16.5	2.7	3-S	0-S	79-W	79-W	HASL	56	2
G 32	04/13/74	15.2	16.4	-1.2	5-N	1-N	79-W	79-W	HASL	71	2
G 31	04/19/74	18.3	16.6	1.7	14-N	12-N	82-W	81-W	HASL	58	5
G 33	04/13/74	18.3	16.0	2.3	14-S	14-S	76-W	76-W	HASL	48	3
G 36	04/17/74	15.5	16.6	-1.1	19-S	17-S	74-W	75-W	HASL	72	4
G 38	04/16/74	16.8	17.0	-.2	19-S	16-S	74-W	75-W	HASL	70	2
G 39	04/16/74	19.2	17.0	2.2	19-S	2-S	74-W	74-W	HASL	51	2
G 30	04/21/74	19.2	13.4	5.8	27-N	29-N	93-W	96-W	HASL	52	6
G 29	04/12/74	16.8	12.2	4.6	30-N	27-N	101-W	99-W	HASL	61	1
G 40	04/15/74	15.2	16.6	-1.4	34-S	37-S	65-W	66-W	HASL	79	3
G 28	04/16/74	15.2	12.1	3.1	37-N	34-N	104-W	106-W	HASL	58	6
G 26	04/17/74	15.2	11.4	3.8	38-N	42-N	109-W	112-W	HASL	59	1
G 27	04/17/74	13.7	11.4	2.3	42-N	40-N	112-W	110-W	HASL	57	1
G 25	04/29/74	19.2	12.5	6.7	51-N	46-N	119-W	115-W	HASL	22	2
G 24	04/29/74	16.8	10.0	6.8	63-N	60-N	140-W	133-W	HASL	50	1
G 65	10/23/74	18.3	15.3	3.0	1-N	6-N	80-W	80-W	HASL	68	1
G 62	10/23/74	15.2	15.3	-.1	5-N	0	80-W	80-W	HASL	88	1
G 63	10/23/74	15.2	15.3	-.1	7-S	10-S	80-W	80-W	HASL	76	2

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 64	10/23/74	18.3	15.3	3.0	10-S	7-S	80-W	80-W	HASL	61	2
G 66	10/25/74	15.2	15.4	- .2	12-N	15-N	81-W	83-W	HASL	84	1
G 60	10/22/74	16.8	15.1	1.7	12-N	15-N	81-W	83-W	HASL	84	1
G 61	10/22/74	19.2	15.1	4.1	15-N	12-N	83-W	81-W	HASL	57	2
G 67	10/25/74	18.3	15.6	2.7	24-N	27-N	90-W	93-W	HASL	65	5
G 58	10/18/74	19.2	15.9	3.3	24-N	27-N	90-W	93-W	HASL	56	4
G 57	10/14/74	16.8	16.1	.7	27-N	24-N	93-W	90-W	HASL	77	1
G 43	10/09/74	16.8	14.6	2.2	36-N	39-N	99-W	107-W	HASL	60	2
G 59	10/19/74	13.7	16.1	-2.4	39-N	37-N	102-W	100-W	HASL	89	2
G 56	10/17/74	19.2	14.2	5.0	39-N	36-N	95-W	95-W	HASL	39	1
G 41	10/10/74	13.7	10.1	3.6	48-N	49-N	111-W	114-W	HASL	75	2
G 47	10/09/74	16.8	11.7	5.1	48-N	51-N	112-W	116-W	HASL	72	4
G 54	10/15/74	15.2	13.6	1.6	52-N	50-N	118-W	114-W	HASL	84	4
G 42	10/09/74	19.1	11.2	7.9	52-N	50-N	118-W	114-W	HASL	30	1
G 52	10/14/74	18.7	10.9	7.8	58-N	60-N	132-W	142-W	HASL	33	1
G 49	10/10/74	13.7	9.0	4.7	59-N	60-N	132-W	141-W	HASL	60	2
G 53	10/15/74	15.2	10.6	4.6	61-N	60-N	150-W	143-W	HASL	61	1
G 51	10/14/74	16.8	10.9	5.9	61-N	60-N	150-W	141-W	HASL	77	1
G 45	10/12/74	12.2	9.5	2.7	71-N	73-N	148-W	148-W	HASL	70	2
G 44	10/13/74	16.8	9.4	7.4	71-N	75-N	149-W	149-W	HASL	36	1
G 48	10/12/74	12.2	9.5	2.7	72-N	74-N	148-W	148-W	HASL	62	1
G 46	10/12/74	15.3	9.5	5.8	75-N	73-N	148-W	148-W	HASL	53	1
G 50	10/13/74	19.0	9.4	9.6	75-N	70-N	148-W	148-W	HASL	14	1
G 75	04/23/75	19.2	16.5	2.7	1-N	6-N	79-W	80-W	HASL	77	2
G 69	04/22/75	15.2	16.5	-1.3	4-N	1-N	80-W	80-W	HASL	98	3
G 77	04/21/75	16.8	16.5	.3	12-N	18-N	82-W	84-W	HASL	84	2
G 72	04/24/75	18.3	16.5	1.8	12-N	15-N	81-W	83-W	HASL	65	2
G 79	04/21/75	19.2	16.5	2.7	15-N	11-N	83-W	81-W	HASL	72	4
G 76	04/24/75	18.3	16.5	1.8	16-N	22-N	83-W	86-W	HASL	71	1
G 74	04/19/75	18.3	16.5	1.8	17-N	13-N	84-W	82-W	HASL	69	3
G 97	04/26/75	19.2	15.5	3.7	19-N	24-N	86-W	90-W	HASL	60	1
G 89	04/26/75	16.8	15.5	1.3	21-N	18-N	86-W	85-W	HASL	82	1
G 70	04/24/75	18.3	13.7	4.6	24-N	27-N	90-W	93-W	HASL	63	2
G 96	04/26/75	19.2	14.4	4.8	24-N	27-N	90-W	93-W	HASL	60	1
G 68	04/19/75	15.2	16.3	-1.1	27-N	21-N	92-W	86-W	HASL	95	3
G 95	04/26/75	16.8	14.4	2.4	27-N	24-N	92-W	90-W	HASL	85	1
G 94	05/07/75	13.7	11.7	2.0	33-N	30-N	97-W	95-W	HASL	93	3
G 78	04/25/75	15.2	12.9	2.3	35-N	39-N	96-W	96-W	HASL	79	2
G 88	04/27/75	16.7	10.8	5.9	36-N	39-N	99-W	102-W	HASL	79	2
G 98	05/07/75	13.7	11.2	2.5	39-N	36-N	102-W	100-W	HASL	76	1
G 71	04/25/75	19.2	13.0	6.2	39-N	36-N	96-W	96-W	HASL	48	2
G 92	04/28/75	13.7	9.8	3.9	48-N	52-N	111-W	118-W	HASL	70	2
G 91	04/27/75	16.8	10.9	5.9	48-N	51-N	112-W	116-W	HASL	40	1

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 83	05/06/75	15.2	10.6	4.6	52-N	49-N	119-W	115-W	HASL	64	1
G 90	04/27/75	19.1	10.9	8.2	52-N	48-N	118-W	112-W	HASL	29	1
G 80	05/02/75	19.1	9.6	9.5	58-N	60-N	140-W	145-W	HASL	24	1
G 93	04/28/75	13.7	8.8	4.9	59-N	60-N	138-W	144-W	HASL	58	1
G 82	05/02/75	16.8	9.6	7.2	60-N	58-N	150-W	140-W	HASL	33	1
G 87	05/06/75	15.2	10.6	4.6	61-N	59-N	150-W	138-W	HASL	61	1
G 86	04/29/75	12.2	7.9	4.3	71-N	75-N	148-W	148-W	HASL	67	4
G 81	05/01/75	16.7	8.8	7.9	71-N	75-N	148-W	148-W	HASL	29	2
G 84	04/29/75	14.9	8.2	6.7	75-N	71-N	148-W	148-W	HASL	44	1
G 85	05/01/75	18.3	8.8	9.5	75-N	71-N	148-W	148-W	HASL	25	1
G 105	08/01/75	16.8	15.5	1.3	5-N	1-N	80-W	80-W	HASL	82	4
G 117	08/02/75	15.2	16.5	-1.3	12-N	15-N	81-W	83-W	HASL	91	6
G 106	07/25/75	18.3	16.3	2.0	15-N	12-N	83-W	81-W	HASL	68	1
G 118	08/02/75	18.3	15.5	2.8	24-N	27-N	90-W	93-W	HASL	65	1
G 119	08/06/75	19.2	15.0	4.2	24-N	27-N	95-W	95-W	HASL	58	1
G 104	07/25/75	15.2	15.0	.2	27-N	24-N	92-W	90-W	HASL	90	1
G 116	08/06/75	16.8	15.0	1.8	27-N	24-N	95-W	95-W	HASL	76	4
G 122	07/23/75	15.2	16.1	-.9	36-N	39-N	95-W	94-W	HASL	85	1
G 101	07/15/75	16.8	15.4	1.4	36-N	39-N	100-W	100-W	HASL	68	1
G 121	07/23/75	19.2	16.1	3.1	39-N	36-N	94-W	95-W	HASL	52	1
G 102	07/16/75	13.7	11.2	2.5	48-N	50-N	121-W	129-W	HASL	75	3
G 111	07/19/75	19.2	11.6	7.6	48-N	52-N	134-W	134-W	HASL	35	2
G 113	07/20/75	15.2	11.2	4.0	52-N	48-N	132-W	122-W	HASL	71	2
G 120	07/19/75	16.8	11.6	5.2	52-N	48-N	134-W	134-W	HASL	61	3
G 107	07/19/75	19.2	10.9	8.3	58-N	61-N	139-W	147-W	HASL	29	1
G 103	07/16/75	13.7	10.0	3.7	59-N	61-N	146-W	150-W	HASL	73	3
G 112	07/20/75	15.2	10.9	4.3	61-N	58-N	150-W	142-W	HASL	67	3
G 110	07/19/75	16.8	10.8	6.0	61-N	58-N	150-W	139-W	HASL	45	2
G 99	07/17/75	12.2	11.1	1.1	71-N	75-N	149-W	148-W	HASL	77	1
G 109	07/18/75	16.8	11.1	5.7	71-N	75-N	148-W	149-W	HASL	43	1
G 100	07/17/75	15.2	11.1	4.1	75-N	71-N	148-W	148-W	HASL	67	1
G 108	07/18/75	18.3	11.1	7.2	75-N	71-N	148-W	149-W	HASL	35	1
G 130	05/27/76	19.2	16.1	3.1	2-N	6-N	80-W	80-W	WSU	75	11
G 155	05/27/76	19.2	16.2	3.0	2-N	6-N	80-W	80-W	WSU	67	11
G 141	05/26/76	15.2	16.2	-1.0	7-S	10-S	79-W	78-W	WSU	109	2
G 145	05/26/76	18.3	16.2	2.1	10-S	7-S	78-W	79-W	WSU	93	3
G 154	05/27/76	19.2	16.2	3.0	10-S	6-S	78-W	79-W	WSU	74	3
G 150	05/28/76	15.2	16.2	-1.0	12-N	15-N	81-W	83-W	WSU	110	2
G 143	05/25/76	16.8	16.2	.6	12-N	15-N	79-W	79-W	WSU	106	11
G 144	05/24/76	18.3	16.2	2.1	15-N	12-N	83-W	81-W	WSU	76	3
G 146	05/25/76	19.2	16.2	3.0	15-N	12-N	79-W	79-W	WSU	82	15
G 153	05/28/76	15.2	15.5	-.3	24-N	27-N	90-W	93-W	WSU	69	10
G 159	06/09/76	19.2	15.6	3.6	24-N	26-N	95-W	95-W	WSU	54	1

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 156	05/24/76	15.2	14.0	1.2	27-N	24-N	93-W	90-W	WSU	102	4
G 158	06/09/76	16.8	15.6	1.2	27-N	24-N	95-W	95-W	WSU	94	3
G 151	06/08/76	15.2	12.6	2.6	36-N	39-N	95-W	95-W	WSU	85	1
G 131	06/01/76	16.8	13.6	3.2	36-N	39-N	103-W	106-W	WSU	60	5
G 149	06/07/76	13.7	14.2	- .5	39-N	36-N	108-W	104-W	WSU	96	1
G 147	06/08/76	19.2	12.6	6.6	39-N	36-N	95-W	95-W	WSU	54	28
G 133	06/02/76	13.7	8.6	5.1	47-N	50-N	122-W	127-W	WSU	76	12
G 157	06/06/76	19.2	9.7	9.5	47-N	50-N	129-W	129-W	WSU	50	3
G 132	06/01/76	16.8	8.3	8.5	48-N	50-N	123-W	128-W	WSU	49	1
G 152	06/06/76	15.2	9.7	5.5	52-N	48-N	135-W	131-W	WSU	73	12
G 140	06/05/76	19.2	10.6	8.6	58-N	61-N	142-W	147-W	WSU	30	2
G 134	06/02/76	13.7	9.7	4.0	59-N	61-N	141-W	148-W	WSU	76	4
G 148	06/06/76	15.2	11.0	4.2	61-N	58-N	148-W	143-W	WSU	93	2
G 139	06/05/76	16.8	10.6	6.2	61-N	58-N	150-W	142-W	WSU	63	2
G 135	06/03/76	13.3	10.2	3.1	71-N	74-N	148-W	149-W	WSU	84	5
G 137	06/04/76	15.2	10.5	4.7	71-N	75-N	148-W	148-W	WSU	63	1
G 136	06/03/76	16.8	10.2	6.6	75-N	71-N	149-W	148-W	WSU	43	1
G 138	06/04/76	18.3	10.5	7.8	75-N	71-N	149-W	148-W	WSU	33	6
G 170	08/20/76	18.3	15.7	2.6	2-N	6-N	80-W	80-W	WSU	97	3
G 168	08/21/76	19.2	15.1	4.1	2-N	6-N	80-W	80-W	WSU	90	2
G 178	08/20/76	15.2	15.3	- .1	6-N	2-N	80-W	80-W	WSU	120	2
G 177	08/21/76	16.8	15.1	1.7	6-N	2-N	80-W	80-W	WSU	115	4
G 173	08/20/76	15.2	15.7	- .5	7-S	10-S	79-W	78-W	WSU	120	1
G 175	08/21/76	16.8	15.7	1.1	7-S	10-S	78-W	78-W	WSU	119	7
G 169	08/20/76	18.3	15.8	2.5	10-S	7-S	78-W	79-W	WSU	98	3
G 172	08/21/76	19.2	15.7	3.5	10-S	7-S	78-W	79-W	WSU	83	5
G 192	08/22/76	15.2	15.1	.1	12-N	15-N	81-W	83-W	WSU	117	2
G 180	08/18/76	16.9	15.8	1.1	12-N	15-N	79-W	79-W	WSU	111	1
G 181	08/17/76	18.3	15.6	2.7	15-N	12-N	93-W	81-W	WSU	93	3
G 171	08/18/76	19.2	15.8	3.4	15-N	12-N	79-W	79-W	WSU	83	2
G 167	08/13/76	19.2	15.8	3.4	18-N	21-N	86-W	86-W	WSU	87	7
G 161	08/12/76	19.2	15.9	3.3	20-N	24-N	95-W	96-W	WSU	78	4
G 163	08/12/76	16.8	15.9	.9	23-N	20-N	96-W	95-W	WSU	110	7
G 174	08/13/76	15.2	16.0	- .8	24-N	21-N	87-W	86-W	WSU	102	1
G 191	08/22/76	18.3	14.7	3.6	24-N	27-N	87-W	90-W	WSU	91	4
G 162	08/12/76	19.2	15.9	3.3	24-N	27-N	96-W	95-W	WSU	72	3
G 176	08/13/76	19.2	16.0	3.2	24-N	27-N	87-W	89-W	WSU	71	1
G 179	08/17/76	15.2	15.5	- .3	27-N	24-N	93-W	90-W	WSU	120	1
G 160	08/12/76	16.8	15.9	.9	27-N	23-N	95-W	96-W	WSU	110	2
G 182	08/13/76	16.8	16.0	.8	27-N	24-N	90-W	82-W	WSU	102	2
G 188	08/23/76	15.2	15.1	.1	36-N	39-N	97-W	97-W	WSU	97	25
G 183	08/25/76	16.8	15.9	.9	36-N	39-N	106-W	110-W	WSU	100	2
G 164	08/31/76	13.7	16.7	-3.0	39-N	36-N	107-W	103-W	WSU	121	3

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 187	08/23/76	19.2	15.1	4.1	39-N	36-N	96-W	96-W	WSU	54	1
G 194	08/26/76	13.7	12.0	1.7	47-N	50-N	124-W	127-W	WSU	120	1
G 190	08/25/76	16.8	9.9	6.9	48-N	50-N	123-W	128-W	WSU	83	2
G 198	08/25/76	19.2	10.0	9.2	50-N	47-N	129-W	125-W	WSU	54	7
G 195	08/25/76	19.2	10.0	9.2	50-N	47-N	129-W	125-W	WSU	54	2
G 166	08/30/76	15.2	11.5	3.7	52-N	49-N	132-W	127-W	WSU	108	5
G 193	08/29/76	18.9	9.7	9.2	58-N	61-N	142-W	147-W	WSU	40	2
G 189	08/26/76	13.7	10.2	3.5	59-N	61-N	143-W	147-W	WSU	110	1
G 165	08/30/76	15.2	10.0	5.2	61-N	58-N	145-W	139-W	WSU	86	1
G 186	08/29/76	16.8	9.7	7.1	61-N	58-N	147-W	147-W	WSU	71	5
G 197	08/21/76	12.5	10.0	2.5	71-N	74-N	148-W	148-W	WSU	111	1
G 196	08/28/76	15.2	11.1	4.1	71-N	75-N	148-W	148-W	WSU	95	1
G 185	08/27/76	16.8	10.9	5.9	75-N	72-N	149-W	149-W	WSU	80	2
G 184	08/28/76	18.7	11.1	7.6	75-N	71-N	147-W	148-W	WSU	35	3
G 210	11/14/76	18.3	17.1	1.2	2-N	6-N	80-W	80-W	WSU	109	1
G 218	11/15/76	19.2	16.9	2.3	2-N	6-N	80-W	80-W	WSU	102	36
G 211	11/14/76	15.2	17.1	-1.9	6-N	2-N	80-W	80-W	WSU	123	3
G 213	11/15/76	16.8	17.0	-.2	6-N	2-N	80-W	80-W	WSU	119	1
G 220	11/14/76	15.2	17.3	-2.1	7-S	10-S	78-W	78-W	WSU	120	4
G 214	11/15/76	16.8	16.5	.3	7-S	10-S	80-W	78-W	WSU	120	1
G 221	11/14/76	18.3	17.3	1.0	10-S	7-S	78-W	79-W	WSU	98	3
G 217	11/15/76	19.2	16.4	2.8	10-S	7-S	78-W	79-W	WSU	104	12
G 200	11/16/76	15.2	16.7	-1.5	12-N	15-N	81-W	83-W	WSU	123	1
G 219	11/13/76	19.2	17.6	1.0	12-N	15-N	79-W	79-W	WSU	100	3
G 212	11/13/76	16.8	16.8	0	15-N	12-N	79-W	79-W	WSU	126	2
G 203	11/16/76	18.3	15.2	3.1	24-N	27-N	87-W	90-W	WSU	102	8
G 201	11/17/76	19.2	15.3	3.9	24-N	27-N	96-W	95-W	WSU	97	2
G 215	11/11/76	15.2	16.1	-.9	27-N	24-N	90-W	87-W	WSU	120	1
G 205	11/17/76	16.8	15.3	1.5	27-N	24-N	95-W	95-W	WSU	111	4
G 207	10/28/76	15.2	11.8	3.4	36-N	37-N	98-W	98-W	WSU	103	4
G 224	10/30/76	16.8	12.4	4.4	36-N	39-N	105-W	108-W	WSU	80	3
G 209	10/28/76	15.2	11.9	3.3	37-N	39-N	98-W	98-W	WSU	103	2
G 204	10/28/76	19.2	11.9	7.3	38-N	37-N	98-W	98-W	WSU	58	1
G 206	11/08/76	13.7	12.8	.9	39-N	36-N	106-W	103-W	WSU	123	2
G 208	10/28/76	19.2	11.9	7.3	39-N	38-N	98-W	98-W	WSU	62	2
G 229	10/31/76	13.7	11.4	2.3	47-N	50-N	124-W	127-W	WSU	118	2
G 227	10/30/76	16.8	11.3	5.5	48-N	50-N	124-W	128-W	WSU	100	4
G 223	10/30/76	19.2	11.4	7.8	50-N	48-N	128-W	125-W	WSU	54	1
G 199	11/07/76	15.2	11.4	3.8	52-N	49-N	130-W	126-W	WSU	112	1
G 231	11/06/76	19.2	8.6	10.6	58-N	61-N	154-W	154-W	WSU	88	2
G 226	10/31/76	13.7	8.2	5.5	59-N	60-N	143-W	144-W	WSU	106	1
G 202	11/07/76	15.2	9.7	5.5	61-N	59-N	146-W	140-W	WSU	90	1
G 225	11/06/76	16.8	8.6	8.2	61-N	58-N	154-W	154-W	WSU	84	4

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 222	11/04/76	12.2	9.0	3.2	71-N	74-N	148-W	148-W	WSU	106	4
G 230	11/05/76	15.2	9.7	5.5	71-N	76-N	148-W	147-W	WSU	85	1
G 228	11/04/76	16.8	9.0	7.8	75-N	71-N	147-W	148-W	WSU	58	4
G 232	11/05/76	18.3	9.7	8.6	75-N	71-N	147-W	148-W	WSU	46	8
G 290	07/10/77	19.2	16.2	3.0	2-N	6-N	80-W	80-W	WSU	109	1
G 295	07/11/77	6.1	15.5	-9.4	6-N	6-N	81-W	81-W	WSU	138	2
G 297	07/11/77	9.1	15.5	-6.4	6-N	6-N	81-W	81-W	WSU	141	2
G 294	07/11/77	12.2	15.5	-3.3	6-N	6-N	81-W	81-W	WSU	138	0
G 279	07/10/77	15.2	16.2	-1.0	6-N	2-N	80-W	80-W	WSU	142	0
G 300	07/12/77	15.2	15.6	-.4	12-N	15-N	81-W	83-W	WSU	132	2
G 289	07/09/77	16.8	16.2	.6	12-N	15-N	79-W	79-W	WSU	161	2
G 286	07/08/77	18.3	16.2	2.1	15-N	12-N	83-W	81-W	WSU	115	0
G 277	07/09/77	19.2	16.2	3.0	15-N	12-N	79-W	79-W	WSU	111	0
G 287	07/12/77	18.3	15.9	2.4	24-N	27-N	87-W	90-W	WSU	90	0
G 276	07/07/77	19.2	15.2	4.0	24-N	27-N	94-W	94-W	WSU	96	2
G 301	07/08/77	15.2	13.8	1.4	27-N	24-N	90-W	87-W	WSU	133	0
G 278	07/22/77	15.2	15.0	.2	27-N	27-N	95-W	94-W	WSU	115	0
G 296	07/07/77	16.8	15.2	1.6	27-N	24-N	94-W	94-W	WSU	119	0
G 285	07/22/77	3.1	15.0	-11.9	28-N	28-N	95-W	95-W	WSU	152	1
G 283	07/22/77	13.7	15.0	-1.3	28-N	27-N	95-W	95-W	WSU	140	0
G 282	07/14/77	15.2	15.2	0	36-N	39-N	98-W	98-W	WSU	127	0
G 298	07/14/77	16.8	15.1	1.7	36-N	39-N	106-W	109-W	WSU	111	3
G 281	07/21/77	13.7	15.0	-1.3	39-N	36-N	107-W	104-W	WSU	140	1
G 292	07/14/77	19.2	15.2	4.0	39-N	36-N	96-W	96-W	WSU	79	1
G 280	07/14/77	16.8	12.5	4.3	48-N	50-N	124-W	128-W	WSU	86	0
G 284	07/14/77	19.2	12.5	6.7	50-N	47-N	129-W	127-W	WSU	56	2
G 305	07/20/77	15.2	11.2	4.0	52-N	51-N	132-W	129-W	WSU	98	0
G 274	07/19/77	19.2	9.8	9.4	58-N	61-N	148-W	148-W	WSU	41	1
G 379	07/15/77	13.7	10.3	3.4	59-N	62-N	143-W	147-W	WSU	105	0
G 303	07/20/77	15.2	10.6	4.6	60-N	58-N	142-W	139-W	WSU	100	0
G 293	07/18/77	3.1	10.4	-7.3	61-N	61-N	148-W	149-W	WSU	151	2
G 288	07/18/77	6.1	10.4	-4.3	61-N	61-N	148-W	148-W	WSU	149	2
G 299	07/18/77	12.2	10.4	1.8	61-N	62-N	149-W	148-W	WSU	115	2
G 304	07/20/77	15.2	10.6	4.6	61-N	60-N	147-W	142-W	WSU	100	3
G 291	07/19/77	16.8	10.4	6.4	61-N	59-N	148-W	148-W	WSU	73	2
G 381	07/16/77	12.2	10.1	2.1	71-N	74-N	148-W	148-W	WSU	105	0
G 383	07/17/77	15.2	9.5	5.7	71-N	75-N	148-W	147-W	WSU	96	0
G 362	10/15/77	16.8	17.1	-.3	2-N	6-N	80-W	80-W	WSU	148	1
G 356	10/15/77	19.2	17.1	2.1	2-N	6-N	80-W	80-W	WSU	120	1
G 346	10/15/77	18.3	17.1	1.2	6-N	2-N	80-W	80-W	WSU	119	0
G 361	10/16/77	3.1	16.3	-13.2	7-N	7-N	81-W	81-W	WSU	149	0
G 347	10/16/77	6.1	16.3	-10.2	7-N	7-N	81-W	82-W	WSU	143	0
G 358	10/16/77	9.1	16.3	-7.2	7-N	7-N	82-W	82-W	WSU	154	1

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 359	10/16/77	12.2	11.3	.9	7-N	6-N	82-W	82-W	WSU	144	0
G 349	10/17/77	13.7	14.6	-.9	7-N	12-N	79-W	80-W	WSU	144	1
G 353	10/17/77	13.7	15.6	-1.9	12-N	15-N	81-W	83-W	WSU	141	1
G 348	10/14/77	16.8	15.2	1.6	12-N	15-N	79-W	79-W	WSU	132	2
G 336	10/13/77	15.2	16.0	-.8	14-N	12-N	82-W	81-W	WSU	153	0
G 343	10/14/77	19.2	15.2	4.0	14-N	11-N	79-W	79-W	WSU	107	0
G 345	10/14/77	19.2	15.2	4.0	15-N	12-N	79-W	80-W	WSU	114	0
G 357	10/17/77	13.7	15.2	-1.5	24-N	26-N	88-W	91-W	WSU	144	0
G 364	10/27/77	19.2	15.2	4.0	24-N	27-N	94-W	94-W	WSU	99	1
G 355	10/27/77	13.7	15.2	-1.5	27-N	24-N	94-W	94-W	WSU	136	1
G 341	10/13/77	15.2	14.6	.6	27-N	24-N	92-W	88-W	WSU	154	1
G 335	10/12/77	9.1	15.0	-5.9	28-N	29-N	94-W	93-W	WSU	166	1
G 354	10/12/77	3.1	14.5	-11.4	29-N	28-N	95-W	95-W	WSU	153	0
G 350	10/12/77	13.7	14.5	-.8	29-N	29-N	93-W	94-W	WSU	138	2
G 338	10/12/77	15.2	14.0	1.2	30-N	30-N	94-W	93-W	WSU	138	0
G 342	10/29/77	16.8	15.5	1.3	36-N	39-N	93-W	93-W	WSU	130	0
G 327	10/20/77	15.2	15.4	-.2	37-N	39-N	105-W	109-W	WSU	136	1
G 352	10/20/77	13.7	15.0	-1.3	39-N	36-N	107-W	104-W	WSU	147	2
G 337	10/29/77	19.2	15.5	3.7	39-N	36-N	93-W	93-W	WSU	82	0
G 334	10/21/77	13.7	12.5	1.2	47-N	49-N	124-W	127-W	WSU	151	0
G 329	10/20/77	15.2	12.5	2.7	47-N	48-N	122-W	127-W	WSU	124	0
G 363	10/25/77	19.2	14.3	4.9	47-N	50-N	126-W	128-W	WSU	59	0
G 339	10/25/77	16.8	11.9	4.9	52-N	49-N	132-W	126-W	WSU	75	0
G 328	10/21/77	13.7	9.8	3.9	57-N	59-N	140-W	146-W	WSU	114	1
G 332	10/24/77	3.1	10.7	-7.6	62-N	61-N	150-W	150-W	WSU	148	0
G 344	10/24/77	9.1	10.7	-1.6	62-N	62-N	150-W	151-W	WSU	146	1
G 385	10/22/77	12.2	10.7	1.5	71-N	75-N	149-W	148-W	WSU	124	2
G 376	10/22/77	12.2	10.7	1.5	71-N	75-N	149-W	148-W	WSU	115	2
G 360	10/23/77	15.2	10.7	4.5	72-N	75-N	149-W	148-W	WSU	93	0
G 382	10/22/77	16.8	10.7	6.1	75-N	71-N	149-W	149-W	WSU	73	0
G 340	10/23/77	18.3	10.7	7.6	75-N	71-N	148-W	148-W	WSU	42	0
G 395	04/08/78	15.2	17.1	-1.9	6-N	3-N	80-W	80-W	WSU	145	1
G 396	04/08/78	18.3	17.1	1.2	6-N	2-N	80-W	79-W	WSU	132	2
G 400	04/09/78	3.1	17.1	-14.0	7-N	7-N	80-W	80-W	WSU	149	0
G 399	04/09/78	6.1	17.1	-11.0	7-N	7-N	80-W	80-W	WSU	155	0
G 398	04/09/78	9.1	17.1	-8.0	7-N	7-N	80-W	80-W	WSU	155	1
G 401	04/09/78	12.2	17.1	-4.9	7-N	7-N	80-W	80-W	WSU	161	0
G 403	04/10/78	13.7	17.0	-3.3	12-N	15-N	81-W	83-W	WSU	161	0
G 404	04/10/78	13.7	17.0	-3.3	12-N	15-N	81-W	83-W	WSU	149	1
G 394	04/07/78	16.8	17.1	-.3	12-N	11-N	79-W	79-W	WSU	140	135
G 392	04/06/78	15.2	17.1	-1.9	15-N	12-N	83-W	81-W	WSU	142	1
G 393	04/07/78	19.2	17.1	2.1	15-N	12-N	80-W	80-W	WSU	91	2
G 406	04/11/78	18.3	12.8	5.5	24-N	27-N	94-W	94-W	WSU	132	0

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 407	04/11/78	19.2	12.8	6.4	24-N	27-N	94-W	94-W	WSU	117	1
G 408	04/11/78	18.3	12.8	5.5	25-N	28-N	94-W	94-W	WSU	112	2
G 391	04/06/78	15.2	12.2	3.0	27-N	25-N	93-W	90-W	WSU	139	1
G 405	04/11/78	16.8	12.8	4.0	27-N	24-N	94-W	94-W	WSU	134	0
G 388	04/05/78	6.1	12.2	-6.1	29-N	29-N	94-W	93-W	WSU	157	0
G 390	04/05/78	15.2	12.2	3.0	30-N	29-N	95-W	94-W	WSU	140	0
G 409	04/13/78	16.8	11.2	5.6	36-N	39-N	93-W	93-W	WSU	120	3
G 411	04/14/78	15.2	10.7	4.5	37-N	40-N	107-W	110-W	WSU	130	0
G 431	04/21/78	13.7	10.1	3.6	39-N	36-N	114-W	112-W	WSU	106	7
G 410	04/13/78	19.2	11.2	8.0	39-N	36-N	93-W	94-W	WSU	114	0
G 430	04/21/78	13.7	9.8	3.9	42-N	40-N	117-W	115-W	WSU	111	18
G 429	04/21/78	13.7	9.8	3.9	45-N	43-N	120-W	118-W	WSU	105	3
G 414	04/16/78	13.7	10.4	3.3	47-N	49-N	126-W	128-W	WSU	100	4
G 426	04/20/78	18.9	9.1	9.8	47-N	50-N	125-W	128-W	WSU	67	4
G 412	04/14/78	15.2	8.2	7.0	50-N	47-N	127-W	124-W	WSU	102	0
G 428	04/20/78	16.8	9.1	7.7	52-N	48-N	132-W	127-W	WSU	97	1
G 415	04/16/78	13.7	9.8	3.9	57-N	59-N	141-W	145-W	WSU	98	0
G 427	04/20/78	16.8	9.3	7.5	60-N	58-N	148-W	141-W	WSU	87	1
G 422	04/19/78	3.1	9.1	-6.0	62-N	62-N	150-W	151-W	WSU	160	0
G 424	04/19/78	6.1	9.1	-3.0	62-N	62-N	150-W	151-W	WSU	157	0
G 423	04/19/78	9.1	9.1	0.0	62-N	62-N	151-W	151-W	WSU	149	1
G 425	04/19/78	12.2	9.1	3.1	62-N	62-N	151-W	151-W	WSU	115	2
G 418	04/17/78	19.2	9.8	9.4	62-N	58-N	150-W	151-W	WSU	61	0
G 420	04/18/78	15.2	11.1	4.1	71-N	75-N	152-W	151-W	WSU	69	0
G 421	04/18/78	18.7	11.1	7.6	75-N	71-N	151-W	151-W	WSU	69	0
G 487	07/29/78	16.8	15.9	.9	2-N	6-N	80-W	80-W	WSU	153	0
G 453	07/29/78	19.2	16.8	2.4	2-N	5-N	80-W	80-W	WSU	119	0
G 493	07/29/78	15.2	16.8	-1.6	6-N	3-N	80-W	80-W	WSU	150	1
G 488	07/29/78	18.3	15.9	2.4	6-N	2-N	80-W	80-W	WSU	124	0
G 496	07/30/78	6.1	17.1	-11.0	8-N	8-N	79-W	79-W	WSU	142	2
G 497	07/30/78	9.1	17.1	-8.0	8-N	9-N	79-W	79-W	WSU	147	0
G 491	07/31/78	13.7	16.5	-2.8	8-N	10-N	80-W	81-W	WSU	155	1
G 484	07/30/78	3.1	17.0	-13.9	9-N	9-N	80-W	80-W	WSU	167	3
G 492	07/30/78	12.2	17.1	-4.9	9-N	9-N	79-W	79-W	WSU	157	2
G 489	07/31/78	13.7	15.9	-2.2	12-N	15-N	82-W	83-W	WSU	155	0
G 485	07/25/78	16.8	14.6	2.2	12-N	15-N	80-W	80-W	WSU	134	1
G 495	07/31/78	13.7	14.9	-1.2	24-N	26-N	88-W	90-W	WSU	153	2
G 451	07/20/78	18.3	15.0	3.3	24-N	27-N	94-W	94-W	WSU	107	0
G 461	07/20/78	19.2	15.0	4.2	24-N	27-N	94-W	94-W	WSU	105	0
G 456	07/24/78	15.2	13.7	1.5	27-N	25-N	92-W	89-W	WSU	165	0
G 450	07/11/78	3.1	15.4	-12.3	29-N	29-N	95-W	95-W	WSU	158	1
G 455	07/11/78	9.1	15.4	-6.3	29-N	29-N	95-W	95-W	WSU	167	1
G 458	07/11/78	13.7	15.4	-1.7	29-N	29-N	95-W	95-W	WSU	160	2

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 465	07/11/78	15.2	15.4	-.2	29-N	29-N	94-W	94-W	WSU	146	1
G 472	07/19/78	13.7	14.6	-.9	36-N	34-N	104-W	101-W	WSU	151	3
G 464	07/21/78	16.8	14.9	1.9	36-N	39-N	93-W	93-W	WSU	131	5
G 448	07/12/78	15.2	15.3	-.1	37-N	40-N	105-W	108-W	WSU	142	0
G 463	07/21/78	19.2	14.9	4.3	39-N	36-N	93-W	93-W	WSU	108	0
G 467	07/19/78	13.7	15.2	-1.5	42-N	40-N	112-W	109-W	WSU	151	0
G 477	07/19/78	13.7	11.3	2.4	45-N	44-N	118-W	115-W	WSU	142	0
G 449	07/14/78	13.7	13.7	0	47-N	49-N	124-W	125-W	WSU	142	1
G 457	07/12/78	15.2	11.3	3.9	47-N	49-N	121-W	126-W	WSU	120	0
G 471	07/18/78	19.2	11.1	8.1	47-N	50-N	131-W	129-W	WSU	67	2
G 470	07/18/78	16.8	11.4	5.4	52-N	49-N	138-W	135-W	WSU	121	1
G 476	07/18/78	16.8	11.4	5.4	60-N	57-N	146-W	143-W	WSU	98	2
G 480	07/15/78	18.3	10.5	7.8	61-N	58-N	150-W	150-W	WSU	60	0
G 469	07/17/78	12.2	10.5	1.7	65-N	65-N	144-W	144-W	WSU	128	2
G 473	07/17/78	3.1	9.8	-6.7	66-N	66-N	144-W	144-W	WSU	167	2
G 478	07/17/78	6.1	10.4	-4.3	66-N	66-N	145-W	144-W	WSU	153	2
G 482	07/11/78	9.1	9.8	-.7	66-N	66-N	145-W	145-W	WSU	155	2
G 466	07/15/78	12.2	9.8	2.4	71-N	73-N	149-W	149-W	WSU	128	2
G 475	07/16/78	15.2	9.8	5.4	71-N	74-N	149-W	148-W	WSU	111	0
G 474	07/15/78	16.8	9.8	7.0	74-N	71-N	150-W	149-W	WSU	88	0
G 481	07/16/78	19.2	9.8	9.4	75-N	72-N	149-W	150-W	WSU	68	1
G 551	10/19/78	16.8	16.2	.6	2-N	6-N	80-W	80-W	WSU	142	1
G 544	10/20/78	13.7	15.5	-1.8	10-N	15-N	80-W	83-W	WSU	156	1
G 552	10/20/78	13.7	15.5	-1.8	11-N	16-N	81-W	83-W	WSU	155	0
G 538	10/18/78	16.8	16.2	.6	12-N	15-N	81-W	83-W	WSU	145	0
G 508	10/16/78	15.2	16.2	-1.0	15-N	12-N	83-W	81-W	WSU	151	0
G 549	10/18/78	19.2	16.2	3.0	15-N	12-N	83-W	82-W	WSU	106	0
G 514	10/20/78	13.7	15.5	-1.8	24-N	25-N	88-W	89-W	WSU	160	0
G 515	10/13/78	18.3	15.5	2.8	24-N	27-N	95-W	95-W	WSU	109	1
G 510	10/13/78	19.2	15.0	4.2	24-N	27-N	95-W	95-W	WSU	106	0
G 517	10/16/78	15.2	15.5	-.3	27-N	25-N	92-W	89-W	WSU	146	0
G 504	10/13/78	16.8	15.0	1.8	27-N	24-N	95-W	95-W	WSU	132	0
G 554	10/11/78	3.1	16.2	-13.1	29-N	29-N	95-W	95-W	WSU	161	0
G 555	10/11/78	9.1	16.2	-7.1	29-N	29-N	95-W	94-W	WSU	152	0
G 556	10/11/78	13.7	16.2	-2.5	29-N	29-N	94-W	94-W	WSU	151	0
G 557	10/11/78	15.2	16.2	-1.0	29-N	29-N	94-W	94-W	WSU	140	0
G 529	11/07/78	13.7	13.0	.7	36-N	33-N	102-W	99-W	WSU	142	1
G 503	10/14/78	16.8	12.2	4.6	36-N	39-N	93-W	93-W	WSU	94	1
G 512	10/30/78	15.2	15.1	.1	37-N	39-N	106-W	108-W	WSU	132	0
G 547	11/07/78	13.7	12.8	.9	39-N	37-N	107-W	104-W	OGC	144	0
G 519	10/14/78	19.2	12.1	7.1	39-N	36-N	93-W	93-W	WSU	86	0
G 522	11/07/78	13.7	12.8	.9	42-N	40-N	111-W	108-W	WSU	139	0
G 506	11/07/78	13.7	13.7	0	45-N	44-N	117-W	114-W	WSU	146	0

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 548	10/31/78	13.7	12.8	.9	47-N	49-N	128-W	129-W	WSU	149	0
G 513	10/30/78	15.2	12.7	2.5	47-N	49-N	121-W	126-W	WSU	120	0
G 526	11/06/78	19.0	12.5	6.5	50-N	47-N	128-W	123-W	WSU	83	2
G 507	10/31/78	13.7	9.5	4.2	58-N	59-N	141-W	144-W	WSU	120	1
G 518	11/02/78	3.1	9.1	-6.0	61-N	61-N	158-W	158-W	WSU	168	0
G 539	11/02/78	6.1	9.1	-3.0	61-N	61-N	157-W	157-W	WSU	163	0
G 531	11/02/78	9.1	9.1	0	61-N	60-N	157-W	156-W	WSU	148	0
G 525	11/01/78	19.2	9.1	10.1	61-N	58-N	150-W	149-W	WSU	29	0
G 528	11/01/78	12.2	10.1	2.1	71-N	74-N	150-W	150-W	WSU	128	0
G 545	11/05/78	15.2	9.1	6.1	71-N	71-N	150-W	150-W	WSU	100	2
G 520	11/01/78	16.8	10.1	6.7	75-N	72-N	151-W	151-W	WSU	71	0
G 523	11/05/78	18.8	9.1	9.7	75-N	72-N	151-W	151-W	WSU	18	0
G 591	04/11/79	16.8	16.5	.3	2-N	6-N	80-W	80-W	WSU	138	0
G 511	04/11/79	19.2	16.8	2.4	2-N	6-N	80-W	80-W	OGC	112	1
G 583	04/12/79	3.1	16.2	-13.1	6-N	6-N	81-W	81-W	WSU	173	0
G 589	04/12/79	6.1	16.2	-10.1	6-N	6-N	81-W	81-W	WSU	175	0
G 587	04/12/79	9.1	16.2	-7.1	6-N	6-N	81-W	81-W	WSU	161	1
G 586	04/12/79	12.2	16.2	-4.0	6-N	6-N	81-W	81-W	WSU	157	0
G 581	04/11/79	15.2	16.8	-1.6	6-N	3-N	80-W	80-W	WSU	164	0
G 537	04/11/79	18.3	16.8	1.5	6-N	2-N	80-W	80-W	WSU	132	0
G 590	04/13/79	13.7	17.1	-3.4	7-N	9-N	80-W	80-W	WSU	150	1
G 579	04/13/79	13.7	17.1	-3.4	12-N	15-N	81-W	83-W	WSU	151	0
G 584	04/10/79	16.8	16.5	.3	12-N	15-N	79-W	79-W	WSU	144	0
G 595	04/09/79	15.2	16.2	-1.0	15-N	12-N	83-W	82-W	WSU	147	0
G 580	04/10/79	19.2	16.5	2.7	15-N	12-N	79-W	79-W	OGC	114	1
G 578	04/13/79	13.7	14.2	-.5	24-N	26-N	88-W	90-W	OGC	147	2
G 606	04/18/79	18.3	12.1	6.2	24-N	27-N	93-W	94-W	WSU	108	1
G 598	04/18/79	19.2	12.1	7.1	24-N	27-N	94-W	94-W	WSU	106	1
G 594	04/09/79	15.2	16.3	-1.1	27-N	25-N	92-W	89-W	WSU	138	0
G 543	04/05/79	3.1	15.6	-12.5	29-N	30-N	95-W	94-W	WSU	170	0
G 540	04/05/79	9.1	15.6	-6.5	29-N	29-N	94-W	94-W	WSU	158	0
G 509	04/05/79	13.7	15.6	-1.9	29-N	29-N	94-W	94-W	OGC	144	1
G 516	04/05/79	15.2	16.8	-1.6	29-N	29-N	94-W	94-W	WSU	141	1
G 560	04/25/79	13.7	12.3	1.4	36-N	33-N	103-W	99-W	WSU	128	0
G 521	04/06/79	16.8	12.6	4.2	36-N	39-N	93-W	93-W	OGC	136	1
G 582	04/10/79	15.2	12.9	2.3	37-N	40-N	107-W	111-W	OGC	139	0
G 562	04/25/79	13.7	12.6	1.1	39-N	36-N	107-W	103-W	WSU	140	1
G 561	04/25/79	13.7	12.5	1.2	42-N	40-N	112-W	108-W	WSU	120	0
G 566	04/25/79	13.7	11.3	2.4	45-N	42-N	118-W	112-W	WSU	126	0
G 609	04/20/79	13.7	9.7	4.0	47-N	52-N	124-W	132-W	WSU	124	0
G 577	04/19/79	15.2	9.7	5.5	47-N	50-N	122-W	128-W	WSU	120	0
G 565	04/24/79	16.8	11.2	5.6	52-N	49-N	131-W	127-W	WSU	91	0
G 585	04/20/79	13.7	12.5	1.2	57-N	59-N	140-W	144-W	WSU	139	0

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 568	04/24/79	16.8	12.1	4.7	60-N	57-N	143-W	136-W	OGC	92	0
G 574	04/21/79	3.1	12.2	-9.1	62-N	62-N	146-W	146-W	WSU	162	1
G 571	04/21/79	6.1	11.6	-5.5	62-N	62-N	145-W	145-W	WSU	163	0
G 524	04/21/79	10.7	12.6	-1.9	62-N	62-N	145-W	145-W	WSU	161	0
G 569	04/21/79	12.2	12.6	-4	63-N	62-N	145-W	145-W	WSU	157	0
G 612	08/01/79	18.3	15.5	2.8	24-N	27-N	88-W	91-W	WSU	111	0
G 604	07/06/79	19.2	16.2	3.0	24-N	27-N	87-W	92-W	WSU	99	0
G 611	08/01/79	13.7	15.5	-1.8	27-N	24-N	91-W	87-W	WSU	156	1
G 588	07/16/79	15.2	15.6	-4	28-N	29-N	94-W	95-W	WSU	135	0
G 602	07/06/79	15.2	15.2	0	28-N	26-N	93-W	90-W	WSU	150	0
G 600	07/16/79	3.1	15.6	-12.5	29-N	29-N	95-W	95-W	WSU	159	1
G 607	07/16/79	9.1	15.6	-6.5	29-N	29-N	94-W	94-W	WSU	163	0
G 593	07/16/79	13.7	15.6	-1.9	29-N	29-N	94-W	95-W	WSU	149	0
G 603	07/16/79	16.8	15.6	1.2	29-N	29-N	94-W	94-W	WSU	119	0
G 627	07/24/79	13.7	14.6	-9	36-N	33-N	103-W	100-W	WSU	160	0
G 610	07/18/79	15.2	15.9	-7	37-N	39-N	104-W	108-W	WSU	137	0
G 626	07/24/79	13.7	14.7	-1.0	38-N	36-N	105-W	103-W	WSU	145	0
G 608	07/03/79	19.2	15.8	3.4	39-N	36-N	96-W	97-W	WSU	83	0
G 625	07/24/79	13.7	14.9	-1.2	42-N	39-N	112-W	108-W	WSU	144	1
G 624	07/24/79	13.7	13.2	.5	45-N	42-N	118-W	112-W	WSU	135	0
G 601	07/19/79	13.7	12.0	1.7	47-N	49-N	124-W	126-W	OGC	132	1
G 592	07/18/79	15.2	11.0	4.2	47-N	49-N	121-W	121-W	WSU	137	0
G 623	07/23/79	19.2	11.3	7.9	50-N	47-N	125-W	124-W	WSU	79	0
G 622	07/23/79	16.8	11.3	5.5	52-N	48-N	130-W	125-W	WSU	100	1
G 575	07/19/79	13.7	10.5	3.2	57-N	60-N	140-W	147-W	WSU	122	0
G 621	07/23/79	16.8	11.3	5.5	60-N	58-N	143-W	137-W	WSU	98	0
G 615	07/22/79	19.2	10.3	8.9	61-N	58-N	150-W	157-W	WSU	77	0
G 619	07/20/79	6.1	10.3	-4.2	62-N	63-N	151-W	152-W	WSU	164	0
G 599	07/20/79	9.1	10.1	-1.0	63-N	64-N	152-W	152-W	WSU	162	0
G 620	07/20/79	12.2	10.3	1.9	63-N	62-N	152-W	151-W	WSU	136	0
G 613	07/22/79	12.2	10.4	1.8	70-N	74-N	148-W	148-W	WSU	132	2
G 616	07/21/79	15.2	11.9	3.3	71-N	75-N	149-W	148-W	WSU	136	0
G 614	07/22/79	16.8	10.4	6.4	75-N	71-N	149-W	149-W	WSU	100	1
G 617	07/21/79	18.3	11.9	6.4	75-N	71-N	148-W	149-W	WSU	64	0
G 696	11/12/79	16.8	16.6	.2	2-N	6-N	80-W	80-W	WSU	150	0
G 690	11/12/79	19.2	16.6	2.6	2-N	6-N	80-W	80-W	WSU	126	0
G 699	11/12/79	15.2	16.6	-1.4	6-N	3-N	79-W	80-W	WSU	153	0
G 705	11/18/79	13.8	17.1	-3.3	7-N	10-N	80-W	81-W	WSU	163	0
G 698	11/10/79	12.2	16.6	-4.4	8-N	9-N	78-W	79-W	WSU	164	0
G 694	11/09/79	3.1	16.6	-13.5	9-N	8-N	79-W	79-W	WSU	165	0

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 695	11/09/79	6.1	16.6	-10.5	9-N	9-N	79-W	80-W	WSU	167	0
G 692	11/09/79	9.1	16.6	-7.5	9-N	9-N	79-W	79-W	WSU	153	0
G 707	11/18/79	13.7	16.2	-2.5	10-N	13-N	81-W	82-W	WSU	163	0
G 701	11/14/79	16.8	16.3	.5	12-N	15-N	79-W	79-W	WSU	161	0
G 702	11/14/79	19.1	16.3	2.8	14-N	12-N	79-W	79-W	WSU	120	0
G 693	11/07/79	15.2	16.2	-1.0	15-N	12-N	83-W	82-W	WSU	154	0
G 706	11/18/79	13.7	15.1	-1.4	24-N	26-N	88-W	90-W	WSU	171	0
G 688	11/06/79	18.0	17.4	.6	24-N	27-N	94-W	94-W	WSU	139	0
G 691	11/07/79	15.2	14.6	.6	27-N	25-N	92-W	89-W	WSU	144	1
G 687	11/06/79	16.8	17.4	-.6	27-N	24-N	94-W	94-W	WSU	156	0
G 663	10/10/79	3.1	15.3	-12.2	28-N	28-N	96-W	96-W	WSU	171	0
G 664	10/10/79	9.1	15.3	-6.2	28-N	28-N	95-W	95-W	WSU	160	0
G 665	10/10/79	13.7	15.3	-1.6	29-N	28-N	95-W	96-W	WSU	166	0
G 681	10/22/79	13.7	13.7	0	36-N	33-N	103-W	99-W	WSU	154	0
G 667	10/11/79	16.8	14.4	2.4	36-N	39-N	93-W	93-W	WSU	120	0
G 669	10/15/79	15.3	10.9	4.4	37-N	39-N	107-W	109-W	WSU	148	0
G 676	10/22/79	13.7	12.3	1.4	39-N	37-N	107-W	104-W	WSU	163	0
G 686	10/22/79	13.7	12.2	1.5	42-N	40-N	112-W	108-W	WSU	176	0
G 629	11/07/78	13.7	12.2	1.5	42-N	40-N	111-W	108-W	WSU	138	0
G 685	10/22/79	13.7	13.7	0	45-N	44-N	118-W	115-W	WSU	177	0
G 628	11/07/78	13.7	13.7	0	45-N	44-N	117-W	114-W	WSU	146	0
G 671	10/16/79	13.7	10.3	3.4	47-N	49-N	124-W	126-W	WSU	139	0
G 670	10/15/79	15.1	10.9	4.2	47-N	49-N	121-W	125-W	WSU	131	0
G 684	10/21/79	13.7	10.0	3.7	52-N	50-N	131-W	128-W	WSU	147	1
G 672	10/16/79	13.7	10.8	2.9	57-N	59-N	139-W	143-W	WSU	132	0
G 683	10/21/79	13.7	10.0	3.7	60-N	58-N	147-W	142-W	WSU	122	0
G 675	10/17/79	18.6	10.0	8.6	61-N	58-N	150-W	151-W	WSU	29	0
G 673	10/17/79	12.2	10.3	1.9	71-N	74-N	148-W	147-W	WSU	144	0
G 677	10/18/79	15.2	10.3	4.9	71-N	74-N	150-W	149-W	WSU	107	0
G 674	10/17/79	17.0	10.3	6.7	75-N	71-N	148-W	147-W	WSU	66	0
G 678	10/18/79	18.3	10.3	8.0	75-N	71-N	150-W	150-W	WSU	27	0
G 764	04/16/80	16.8	17.1	-.3	2-N	6-N	80-W	80-W	WSU	138	3
G 762	04/16/80	15.2	17.1	-1.9	6-N	2-N	75-W	80-W	WSU	143	2
G 753	04/16/80	18.3	17.1	1.2	6-N	3-N	79-W	80-W	WSU	136	2
G 767	04/17/80	3.1	17.1	-14.0	7-N	7-N	80-W	80-W	WSU	171	5
G 766	04/17/80	6.1	17.1	-11.0	7-N	7-N	80-W	81-W	WSU	167	4
G 771	04/18/80	13.7	17.2	-3.5	7-N	9-N	79-W	80-W	WSU	140	2
G 765	04/17/80	9.1	17.1	-8.0	8-N	6-N	80-W	80-W	WSU	153	9
G 769	04/18/80	13.7	17.2	-3.5	12-N	15-N	81-W	83-W	WSU	150	0

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 759	04/15/80	16.8	17.2	-.4	12-N	15-N	79-W	79-W	WSU	152	2
G 760	04/15/80	19.2	17.2	2.0	14-N	12-N	79-W	80-W	WSU	126	2
G 761	04/15/80	19.2	17.2	2.0	15-N	12-N	79-W	80-W	WSU	100	2
G 770	04/18/80	13.7	12.2	1.5	24-N	26-N	88-W	89-W	WSU	150	0
G 751	04/09/80	18.3	16.8	1.5	24-N	27-N	94-W	94-W	WSU	111	0
G 752	04/09/80	19.2	16.8	2.4	24-N	27-N	94-W	94-W	WSU	112	0
G 757	04/14/80	15.2	17.4	-2.2	27-N	25-N	92-W	89-W	WSU	154	0
G 785	05/09/80	13.7	11.9	1.8	36-N	34-N	104-W	101-W	WSU	154	0
G 754	04/10/80	16.8	11.0	5.8	36-N	39-N	93-W	93-W	WSU	132	2
G 774	04/22/80	15.2	11.7	3.5	37-N	39-N	104-W	108-W	WSU	128	0
G 756	04/10/80	19.2	11.0	8.2	39-N	36-N	94-W	94-W	WSU	76	0
G 787	05/09/80	13.7	9.8	3.9	42-N	40-N	112-W	109-W	WSU	152	1
G 786	05/09/80	13.7	9.5	4.2	45-N	43-N	118-W	114-W	WSU	128	4
G 773	04/23/80	13.7	11.0	2.7	47-N	50-N	124-W	127-W	WSU	114	0
G 775	04/22/80	15.2	10.9	4.3	47-N	49-N	121-W	125-W	WSU	100	0
G 777	04/23/80	13.7	9.6	4.1	57-N	59-N	140-W	145-W	WSU	88	0
G 778	04/24/80	12.2	8.7	3.5	70-N	74-N	148-W	148-W	WSU	162	42
G 782	04/25/80	18.3	9.1	9.2	75-N	71-N	149-W	149-W	WSU	105	0
G 895	07/31/80	18.3	16.5	1.8	2-N	6-N	80-W	80-W	OGC	136	3
G 889	07/31/80	16.0	16.5	-.5	6-N	2-N	80-W	80-W	OGC	150	1
G 899	08/01/80	15.3	16.5	-1.2	7-N	10-N	80-W	81-W	OGC	166	1
G 892	07/29/80	6.1	16.5	-10.4	8-N	8-N	79-W	79-W	OGC	191	1
G 888	07/29/80	12.2	16.5	-4.3	8-N	7-N	79-W	79-W	OGC	189	4
G 866	07/29/80	3.1	16.5	-13.4	9-N	9-N	79-W	79-W	OGC	199	1
G 896	08/01/80	15.3	16.5	-1.2	12-N	15-N	82-W	83-W	OGC	171	1
G 897	07/30/80	16.8	16.5	.3	12-N	15-N	79-W	79-W	OGC	156	0
G 851	07/28/80	15.3	16.5	-1.2	15-N	12-N	83-W	81-W	OGC	168	0
G 886	07/30/80	19.2	16.5	2.7	15-N	12-N	79-W	79-W	OGC	129	1
G 900	08/01/80	19.2	15.0	4.2	24-N	27-N	88-W	92-W	OGC	138	0
G 861	07/25/80	18.9	15.1	3.8	25-N	28-N	94-W	94-W	OGC	100	0
G 854	07/28/80	15.3	15.0	.3	27-N	25-N	92-W	89-W	OGC	165	2
G 855	07/25/80	16.7	15.0	1.7	27-N	24-N	94-W	94-W	OGC	155	0
G 853	07/25/80	18.1	15.0	3.1	27-N	24-N	94-W	94-W	OGC	143	1
G 865	07/23/80	3.1	15.5	-12.4	29-N	30-N	95-W	94-W	OGC	178	0
G 868	07/23/80	9.2	15.5	-6.3	29-N	30-N	94-W	94-W	OGC	189	1
G 860	07/23/80	13.7	14.0	-.3	29-N	29-N	95-W	94-W	OGC	172	0
G 850	08/05/80	15.3	13.7	1.6	37-N	39-N	105-W	108-W	OGC	153	0
G 857	08/05/80	15.3	10.1	5.2	45-N	47-N	116-W	120-W	OGC	142	0
G 875	08/11/80	19.2	10.4	8.8	50-N	47-N	128-W	125-W	OGC	64	0
G 880	08/10/80	15.3	10.7	4.6	51-N	48-N	152-W	152-W	OGC	133	1
G 869	08/11/80	16.8	10.4	6.4	52-N	48-N	138-W	135-W	OGC	122	1
G 874	08/10/80	19.1	10.4	8.7	55-N	58-N	152-W	152-W	OGC	58	1
G 873	08/10/80	15.3	10.4	4.9	58-N	55-N	152-W	152-W	OGC	147	0

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 882	08/11/80	16.8	11.3	5.5	60-N	57-N	146-W	142-W	OGC	121	1
G 881	08/07/80	12.2	9.8	2.4	71-N	75-N	148-W	148-W	OGC	104	2
G 871	08/09/80	15.3	10.1	5.2	71-N	75-N	148-W	148-W	OGC	128	1
G 876	08/09/80	18.2	10.1	8.1	75-N	71-N	148-W	148-W	OGC	66	0
G 914	10/25/80	15.3	17.0	-1.7	0-S	3-S	80-W	80-W	OGC	168	0
G 924	10/24/80	19.2	16.2	3.0	3-N	6-N	80-W	80-W	OGC	122	0
G 913	10/25/80	18.3	17.0	1.3	3-S	0-S	80-W	80-W	OGC	151	0
G 952	10/24/80	19.2	16.8	2.4	3-S	0-S	80-W	80-W	OGC	135	1
G 936	10/17/80	12.2	16.5	-4.3	6-N	7-N	81-W	80-W	OGC	175	0
G 928	10/24/80	16.8	17.2	- .4	6-S	3-S	79-W	80-W	OGC	165	1
G 907	10/25/80	18.3	17.4	.9	6-S	3-S	79-W	80-W	OGC	135	0
G 912	10/18/80	19.2	17.0	2.2	6-S	9-S	79-W	78-W	OGC	115	0
G 911	10/26/80	15.3	17.1	-1.8	9-N	12-N	81-W	82-W	OGC	169	1
G 943	10/17/80	18.3	16.5	1.8	10-N	7-N	81-W	81-W	OGC	135	2
G 910	10/18/80	19.5	17.0	2.5	12-S	15-S	77-W	77-W	OGC	89	0
G 933	10/24/80	9.2	17.4	-8.2	13-S	15-S	77-W	77-W	OGC	173	0
G 902	10/19/80	13.7	17.4	-3.7	18-S	22-S	75-W	74-W	OGC	185	0
G 922	10/26/80	15.3	16.3	-1.0	19-N	22-N	85-W	86-W	OGC	124	1
G 947	10/17/80	18.3	16.5	1.8	19-N	16-N	84-W	83-W	OGC	130	0
G 937	10/16/80	18.9	16.1	2.8	19-N	22-N	94-W	94-W	OGC	111	1
G 946	10/17/80	15.3	16.5	-1.2	21-N	19-N	86-W	85-W	OGC	169	0
G 901	10/26/80	18.3	15.7	2.6	24-N	27-N	87-W	92-W	OGC	123	0
G 909	10/19/80	16.8	17.4	- .6	24-S	27-S	73-W	73-W	OGC	144	0
G 923	10/23/80	19.7	15.6	4.1	24-S	21-S	73-W	74-W	OGC	110	0
G 932	10/15/80	16.8	15.6	1.2	27-N	30-N	93-W	93-W	OGC	157	0
G 921	10/16/80	16.8	15.9	.9	27-N	24-N	95-W	95-W	OGC	158	0
G 939	10/15/80	19.2	15.9	3.3	27-N	30-N	93-W	93-W	OGC	104	1
G 950	10/15/80	9.2	15.5	-6.3	30-N	27-N	93-W	93-W	OGC	180	0
G 931	10/15/80	18.3	15.6	2.7	30-N	27-N	93-W	93-W	OGC	118	0
G 905	10/19/80	16.8	11.9	4.9	30-S	33-S	67-W	61-W	OGC	141	0
G 940	10/23/80	15.4	11.2	4.2	32-S	31-S	63-W	65-W	OGC	163	2
G 938	10/23/80	13.9	11.1	2.8	33-S	33-S	59-W	61-W	OGC	162	0
G 904	10/19/80	9.5	11.9	-2.4	34-S	35-S	60-W	57-W	OGC	170	2
G 929	10/23/80	12.3	11.1	1.2	34-S	33-S	58-W	59-W	OGC	168	2
G 941	10/20/80	10.7	11.0	- .3	36-S	39-S	57-W	58-W	OGC	164	0
G 927	10/21/80	15.3	8.8	6.5	39-S	42-S	58-W	59-W	OGC	144	0
G 949	10/20/80	13.7	9.5	4.2	42-S	39-S	59-W	58-W	OGC	153	0
G 951	10/21/80	18.3	8.8	9.5	42-S	39-S	59-W	58-W	OGC	90	1
G 934	10/21/80	15.3	9.9	5.4	48-S	51-S	58-W	58-W	OGC	122	0
G 944	10/21/80	16.8	9.9	6.9	51-S	48-S	58-W	58-W	OGC	47	0
G 997	04/28/81	15.2	16.6	-1.4	19-N	23-N	94-W	94-W	OGC	161	2
G 994	04/28/81	13.7	16.6	-2.9	22-N	19-N	94-W	94-W	OGC	171	1
G 971	04/09/81	18.3	15.7	2.6	24-N	27-N	94-W	94-W	OGC	151	1

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 972	04/09/81	19.2	15.7	3.5	24-N	27-N	94-W	94-W	OGC	126	1
G 995	04/28/81	15.2	15.5	- .3	25-N	28-N	94-W	94-W	OGC	165	1
G 970	04/09/81	16.8	15.7	1.1	27-N	24-N	94-W	94-W	OGC	164	0
G 973	04/09/81	16.8	15.7	1.1	27-N	24-N	94-W	94-W	OGC	147	0
G 996	04/28/81	13.7	15.5	-1.8	28-N	25-N	94-W	94-W	OGC	169	1
G 990	04/27/81	13.7	12.9	.8	36-N	37-N	103-W	103-W	OGC	161	0
G 974	04/21/81	15.2	13.4	1.8	37-N	34-N	105-W	107-W	OGC	148	1
G 991	04/27/81	13.7	12.8	.9	39-N	36-N	107-W	103-W	OGC	160	1
G 975	04/21/81	15.2	12.3	2.9	39-N	40-N	107-W	108-W	OGC	124	1
G 992	04/27/81	13.7	11.7	2.0	42-N	39-N	112-W	107-W	OGC	156	0
G 977	04/22/81	13.7	12.8	.9	47-N	50-N	124-W	128-W	OGC	144	2
G 976	04/21/81	15.2	11.7	3.5	47-N	50-N	121-W	127-W	OGC	98	0
G 986	04/25/81	6.1	9.0	-2.9	63-N	62-N	155-W	156-W	OGC	189	1
G 983	04/25/81	9.1	9.0	.1	63-N	63-N	156-W	156-W	OGC	160	0
G 981	04/25/81	12.2	8.8	3.4	63-N	63-N	155-W	156-W	OGC	142	1
G 980	04/23/81	16.8	8.6	8.2	75-N	71-N	151-W	149-W	OGC	79	0
G 982	04/24/81	19.2	8.1	11.1	75-N	76-N	148-W	148-W	OGC	50	1
23001	10/14/81	3.1	15.8	-12.7	29-N	29-N	94-W	94-W	OGC	180	1
23002	10/14/81	9.1	15.8	-6.7	29-N	29-N	94-W	94-W	OGC	179	0
23003	10/14/81	12.2	15.8	-3.6	29-N	29-N	94-W	94-W	OGC	181	1
23004	10/14/81	16.8	15.8	1.0	29-N	29-N	94-W	94-W	OGC	171	1
23005	10/14/81	19.2	15.8	3.4	29-N	29-N	94-W	94-W	OGC	136	0
23006	10/15/81	16.8	13.6	3.2	34-N	35-N	93-W	93-W	OGC	172	1
23049	10/21/81	13.7	16.2	-2.5	36-N	35-N	103-W	102-W	OGC	175	1
23009	10/15/81	19.2	14.9	4.3	37-N	36-N	93-W	93-W	OGC	124	1
23048	10/21/81	13.7	11.5	2.2	39-N	38-N	108-W	107-W	OGC	171	0
23008	10/15/81	19.2	12.6	6.6	41-N	40-N	93-W	93-W	OGC	115	2
23047	10/21/81	13.7	11.4	2.3	42-N	41-N	118-W	111-W	OGC	168	0
23007	10/15/81	16.8	11.6	5.2	42-N	43-N	94-W	94-W	OGC	163	0
23046	10/21/81	13.7	11.3	2.4	44-N	44-N	115-W	115-W	OGC	174	1
23022	10/16/81	15.2	12.0	3.2	48-N	50-N	123-W	128-W	OGC	190	1
23043	10/21/81	16.8	12.7	4.1	48-N	48-N	125-W	125-W	OGC	95	0
23042	10/21/81	16.8	12.4	4.4	51-N	48-N	137-W	135-W	OGC	150	0
23024	10/17/81	13.7	13.0	.7	54-N	53-N	136-W	136-W	OGC	153	1
23041	10/21/81	16.8	12.4	4.4	54-N	52-N	141-W	138-W	OGC	146	1
23034	10/20/81	16.8	11.8	5.0	59-N	59-N	152-W	152-W	OGC	131	0
23035	10/20/81	16.8	11.8	5.0	60-N	62-N	151-W	149-W	OGC	136	1
23027	10/18/81	19.2	9.4	9.8	61-N	58-N	150-W	150-W	OGC	64	1
23033	10/20/81	13.7	11.8	1.9	62-N	60-N	149-W	151-W	OGC	163	1
23036	10/20/81	19.2	11.8	7.4	63-N	61-N	148-W	151-W	OGC	72	0
23032	10/20/81	12.2	11.8	.4	64-N	62-N	148-W	149-W	OGC	168	1
23028	10/19/81	15.2	9.0	6.2	71-N	75-N	148-W	148-W	OGC	134	1
23026	10/18/81	16.8	9.0	7.8	75-N	71-N	149-W	149-W	OGC	124	1

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
23029	10/19/81	19.2	9.0	10.2	75-N	71-N	150-W	150-W	OGC	56	0
24034	04/21/82	18.3	17.2	1.1	1-N	1-N	80-W	80-W	OGC	171	0
24033	04/21/82	15.2	17.2	-2.0	3-N	3-N	80-W	80-W	OGC	182	1
24035	04/21/82	19.2	17.2	2.0	6-N	6-N	79-W	79-W	OGC	152	1
24037	04/22/82	6.1	17.2	-11.1	10-N	11-N	79-W	79-W	OGC	183	1
24038	04/22/82	12.2	17.1	-4.9	10-N	13-N	79-W	79-W	OGC	183	0
24039	04/22/82	19.2	17.1	2.1	12-N	9-N	80-W	80-W	OGC	152	1
24019	04/19/82	13.7	16.0	-2.3	13-N	13-N	82-W	82-W	OGC	183	1
24032	04/20/82	19.2	17.1	2.1	13-N	10-N	79-W	80-W	OGC	152	1
24018	04/19/82	13.7	16.0	-2.3	19-N	16-N	85-W	83-W	OGC	183	1
24021	04/23/82	15.2	17.2	-2.0	19-N	19-N	85-W	85-W	OGC	180	1
24031	04/20/82	19.2	16.9	2.3	19-N	17-N	79-W	79-W	OGC	111	1
24017	04/16/82	18.8	16.0	2.8	22-N	23-N	95-W	95-W	OGC	149	0
24015	04/16/82	16.8	16.0	.8	25-N	25-N	95-W	95-W	OGC	175	1
24011	04/15/82	6.1	14.7	-8.6	29-N	29-N	95-W	95-W	OGC	185	2
24012	04/15/82	12.2	14.7	-2.5	29-N	29-N	95-W	95-W	OGC	190	2
24013	04/15/82	16.8	14.7	2.1	29-N	29-N	94-W	95-W	OGC	161	0
24014	04/15/82	19.2	14.7	4.5	29-N	28-N	94-W	96-W	OGC	67	0
24022	04/27/82	15.2	13.1	2.1	36-N	36-N	104-W	104-W	OGC	133	0
24055	05/07/82	15.2	11.0	4.2	39-N	39-N	108-W	108-W	OGC	145	0
24054	05/05/82	13.7	10.7	3.0	41-N	41-N	111-W	110-W	OGC	146	2
24059	05/07/82	19.2	10.7	8.5	41-N	41-N	109-W	109-W	OGC	82	0
24053	05/05/82	13.7	10.7	3.0	42-N	41-N	112-W	111-W	OGC	164	1
24056	05/07/82	16.8	10.4	6.4	43-N	43-N	108-W	108-W	OGC	81	1
24057	05/07/82	16.8	10.4	6.4	44-N	44-N	108-W	108-W	OGC	71	0
24023	04/27/82	15.2	12.4	2.8	45-N	45-N	118-W	118-W	OGC	144	0
24058	05/07/82	18.3	10.6	7.7	45-N	45-N	109-W	109-W	OGC	103	1
24052	05/04/82	19.2	11.6	7.6	47-N	50-N	131-W	130-W	OGC	72	1
24025	04/29/82	13.7	10.7	3.0	48-N	51-N	125-W	130-W	OGC	150	1
24026	04/28/82	13.7	8.8	4.9	54-N	57-N	135-W	139-W	OGC	105	1
24051	05/04/82	16.8	11.2	5.6	54-N	51-N	139-W	137-W	OGC	111	0
24046	05/03/82	6.1	9.2	-3.1	61-N	61-N	149-W	149-W	OGC	190	1
24045	05/02/82	19.2	9.5	9.7	61-N	58-N	150-W	150-W	OGC	63	0
24047	05/03/82	10.7	8.9	1.8	62-N	62-N	149-W	149-W	OGC	112	1
24048	05/03/82	12.2	8.9	3.3	62-N	62-N	149-W	149-W	OGC	128	0
24044	05/02/82	16.8	8.9	7.9	68-N	65-N	148-W	148-W	OGC	49	0
24029	05/01/82	19.2	9.6	9.6	68-N	68-N	149-W	149-W	OGC	33	0
24042	05/02/82	12.2	9.5	2.7	71-N	75-N	149-W	148-W	OGC	128	0
24027	05/01/82	15.2	10.0	5.2	71-N	71-N	148-W	148-W	OGC	52	0
24028	05/01/82	18.7	9.8	8.9	75-N	75-N	148-W	148-W	OGC	50	0
25025	07/23/82	13.7	15.3	-1.6	8-N	8-N	80-W	80-W	OGC	189	1
25026	07/23/82	13.7	15.3	-1.6	10-N	10-N	80-W	80-W	OGC	187	2
25018	07/20/82	16.8	15.2	1.6	10-N	10-N	79-W	79-W	OGC	177	1

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
25027	07/23/82	13.7	14.9	-1.2	13-N	16-N	82-W	83-W	OGC	189	1
25028	07/23/82	13.7	14.7	-1.0	16-N	19-N	83-W	83-W	OGC	185	1
25017	07/19/82	15.2	14.4	.8	22-N	22-N	88-W	88-W	OGC	180	1
25015	07/16/82	16.8	15.5	1.3	22-N	19-N	94-W	94-W	OGC	173	1
25011	07/15/82	12.2	15.0	-2.8	30-N	30-N	95-W	95-W	OGC	190	0
25012	07/15/82	13.7	15.0	-1.3	30-N	30-N	95-W	95-W	OGC	184	0
25013	07/15/82	16.8	15.0	1.8	30-N	30-N	95-W	95-W	OGC	153	1
25014	07/15/82	19.2	15.0	4.2	30-N	30-N	95-W	95-W	OGC	107	0
25056	08/02/82	13.7	11.8	1.9	42-N	42-N	112-W	112-W	OGC	183	1
25031	07/27/82	15.2	15.1	.1	42-N	42-N	111-W	111-W	OGC	167	1
25058	08/03/82	19.3	11.2	8.1	45-N	45-N	93-W	93-W	OGC	84	1
25055	08/01/82	18.8	10.4	8.4	47-N	48-N	131-W	131-W	OGC	89	1
25054	08/01/82	16.8	10.4	6.4	48-N	48-N	135-W	135-W	OGC	154	1
25053	08/01/82	16.8	10.6	6.2	53-N	52-N	138-W	138-W	OGC	145	0
25033	07/28/82	13.7	11.8	1.9	54-N	54-N	135-W	135-W	OGC	157	1
25052	08/01/82	16.8	10.6	6.2	54-N	53-N	139-W	139-W	OGC	143	1
25041	07/30/82	15.2	11.3	3.9	58-N	59-N	151-W	151-W	OGC	159	1
25045	07/31/82	6.1	11.3	-5.2	60-N	60-N	151-W	151-W	OGC	192	2
25046	07/31/82	9.1	11.3	-2.2	60-N	60-N	153-W	153-W	OGC	197	1
25051	08/01/82	16.8	10.2	6.6	60-N	59-N	146-W	146-W	OGC	126	1
25048	07/31/82	16.8	11.3	5.5	61-N	59-N	152-W	152-W	OGC	111	1
25039	07/29/82	18.6	12.1	6.5	61-N	60-N	150-W	150-W	OGC	62	0
25035	07/29/82	12.2	10.9	1.3	71-N	71-N	148-W	148-W	OGC	160	1
25042	07/30/82	15.2	10.1	5.1	71-N	72-N	144-W	144-W	OGC	134	0
25038	07/29/82	16.8	10.9	5.9	71-N	69-N	150-W	150-W	OGC	111	0
25036	07/29/82	12.2	10.9	1.3	72-N	72-N	148-W	148-W	OGC	161	1
25037	07/29/82	16.8	10.7	6.1	75-N	74-N	150-W	150-W	OGC	111	1
25043	07/30/82	18.3	9.8	8.5	75-N	74-N	148-W	148-W	OGC	70	1
26058	10/29/82	18.3	17.2	1.1	0	0	79-W	79-W	OGC	178	1
26054	10/27/82	19.9	16.2	3.7	0	0	79-W	79-W	OGC	144	1
26051	10/27/82	16.8	16.2	.6	3-N	3-N	79-W	79-W	OGC	200	2
26055	10/29/82	15.2	17.2	-2.0	3-S	3-S	79-W	79-W	OGC	192	1
26037	10/26/82	16.8	15.6	1.2	7-N	7-N	79-W	79-W	OGC	185	0
26056	10/29/82	15.2	17.2	-2.0	7-S	7-S	78-W	78-W	OGC	188	1
26052	10/27/82	16.8	16.2	.6	7-S	7-S	78-W	78-W	OGC	188	1
26038	10/26/82	19.2	15.6	3.6	10-N	10-N	79-W	79-W	OGC	158	0
26057	10/29/82	18.3	17.4	.9	10-S	10-S	77-W	77-W	OGC	159	1
26053	10/27/82	19.2	16.2	3.0	10-S	10-S	77-W	77-W	OGC	154	1
26059	10/30/82	13.7	16.8	-3.1	13-N	13-N	82-W	82-W	OGC	191	1
26033	10/22/82	18.7	16.0	2.7	19-N	19-N	93-W	93-W	OGC	131	1
26032	10/22/82	16.8	15.5	1.3	22-N	22-N	93-W	93-W	OGC	180	2
26013	10/13/82	15.2	15.5	-.3	27-N	27-N	96-W	96-W	OGC	189	0
26031	10/22/82	16.5	14.6	1.9	27-N	27-N	93-W	93-W	OGC	172	1

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
26015	10/13/82	19.2	15.7	3.5	27-N	27-N	96-W	96-W	OGC	102	0
26011	10/13/82	6.1	15.7	-9.6	29-N	29-N	93-W	93-W	OGC	199	1
26012	10/13/82	12.5	15.7	-3.2	29-N	29-N	91-W	91-W	OGC	191	0
26014	10/13/82	16.8	15.7	1.1	29-N	29-N	93-W	93-W	OGC	175	1
26016	10/14/82	16.8	11.5	5.3	34-N	38-N	92-W	93-W	OGC	171	1
26021	10/15/82	15.2	13.2	2.0	36-N	36-N	104-W	104-W	OGC	176	1
26019	10/14/82	19.2	11.5	7.7	37-N	33-N	93-W	93-W	OGC	117	0
26049	10/21/82	13.7	12.2	1.5	39-N	39-N	108-W	108-W	OGC	181	1
26022	10/15/82	15.2	13.6	1.6	42-N	42-N	112-W	112-W	OGC	178	1
26017	10/14/82	16.8	15.0	1.8	42-N	45-N	93-W	93-W	OGC	166	1
26024	10/16/82	13.7	10.0	3.7	45-N	48-N	123-W	124-W	OGC	182	0
26018	10/14/82	19.2	15.0	4.2	45-N	41-N	93-W	93-W	OGC	98	0
26048	10/20/82	15.2	11.1	4.1	50-N	47-N	128-W	123-W	OGC	165	0
26047	10/20/82	16.8	11.5	5.3	54-N	51-N	139-W	136-W	OGC	107	2
26044	10/19/82	6.1	11.3	-5.2	61-N	61-N	150-W	150-W	OGC	199	0
26045	10/19/82	9.1	11.3	-2.2	61-N	61-N	151-W	151-W	OGC	192	1
26029	10/17/82	18.7	9.8	8.9	61-N	61-N	150-W	150-W	OGC	38	1
26041	10/18/82	15.2	11.4	3.8	62-N	65-N	150-W	149-W	OGC	159	0
26046	10/19/82	19.2	11.3	7.9	62-N	61-N	153-W	152-W	OGC	59	3
26025	10/17/82	12.2	8.6	3.6	65-N	65-N	148-W	148-W	OGC	171	1
26026	10/17/82	12.2	10.3	1.9	71-N	71-N	148-W	148-W	OGC	167	1
26042	10/18/82	15.2	10.2	5.0	71-N	75-N	148-W	140-W	OGC	131	1
26028	10/17/82	16.8	10.2	6.6	73-N	73-N	147-W	147-W	OGC	60	0
26027	10/17/82	16.8	10.1	6.7	75-N	75-N	146-W	146-W	OGC	85	1
26043	10/18/82	18.5	10.2	8.3	75-N	71-N	149-W	148-W	OGC	44	1
27049	03/24/83	18.3	17.3	1.0	3-N	7-N	79-W	79-W	OGC	177	0
27046	03/24/83	15.2	17.3	-2.1	7-N	5-N	79-W	79-W	OGC	199	1
27048	03/24/83	18.3	15.8	2.5	10-S	7-S	78-W	78-W	OGC	173	1
27045	03/23/83	19.2	17.3	1.9	13-N	10-N	79-W	79-W	OGC	173	0
27043	03/21/83	15.2	16.2	-1.0	19-N	16-N	84-W	83-W	OGC	186	3
27011	03/08/83	6.1	13.2	-7.1	29-N	29-N	94-W	94-W	OGC	199	1
27012	03/08/83	12.2	13.2	-1.0	29-N	29-N	95-W	95-W	OGC	180	1
27013	03/08/83	16.8	13.2	3.6	29-N	28-N	93-W	95-W	OGC	195	1
27014	03/08/83	19.2	13.2	6.0	29-N	29-N	92-W	95-W	OGC	121	1
27041	03/18/83	16.8	11.1	5.7	42-N	45-N	92-W	92-W	OGC	144	2
27016	03/09/83	15.2	12.0	3.2	43-N	44-N	113-W	116-W	OGC	195	1
27018	03/10/83	13.7	12.0	1.7	44-N	47-N	123-W	124-W	OGC	153	0
27017	03/09/83	15.2	12.0	3.2	44-N	45-N	116-W	118-W	OGC	193	1
27042	03/18/83	18.9	10.9	8.0	45-N	40-N	92-W	92-W	OGC	72	1
27019	03/10/83	13.7	10.0	3.7	51-N	53-N	130-W	133-W	OGC	142	1
27039	03/13/83	10.7	9.5	1.2	71-N	68-N	151-W	150-W	OGC	170	0
27031	03/13/83	13.7	9.0	4.7	71-N	72-N	161-W	164-W	OGC	124	1
27036	03/13/83	2.4	8.8	-6.4	72-N	73-N	154-W	153-W	OGC	208	1

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
27035	03/13/83	2.4	8.8	-6.4	72-N	73-N	157-W	156-W	OGC	209	1
27038	03/13/83	6.1	9.0	-2.9	72-N	71-N	151-W	152-W	OGC	201	0
27033	03/13/83	2.4	8.8	-6.4	73-N	73-N	162-W	161-W	OGC	201	0
27037	03/13/83	2.4	8.8	-6.4	73-N	73-N	153-W	151-W	OGC	212	1
27034	03/13/83	2.4	8.8	-6.4	73-N	73-N	161-W	159-W	OGC	206	0
27032	03/13/83	2.4	8.8	-6.4	73-N	73-N	164-W	162-W	OGC	209	1
28026	09/29/83	19.2	15.0	4.2	19-N	20-N	93-W	94-W	OGC	161	1
28027	09/29/83	19.2	15.0	4.2	20-N	23-N	94-W	94-W	OGC	158	0
28024	09/29/83	16.8	15.0	1.8	22-N	20-N	94-W	94-W	OGC	192	0
28028	09/29/83	19.2	16.0	3.2	23-N	26-N	94-W	94-W	OGC	159	1
28023	09/29/83	16.8	15.5	1.3	26-N	22-N	94-W	94-W	OGC	192	1
28029	09/29/83	19.2	15.8	3.4	26-N	29-N	94-W	93-W	OGC	154	0
28022	09/29/83	16.8	15.6	1.2	28-N	27-N	94-W	94-W	OGC	198	1
28037	09/30/83	16.8	14.9	1.9	28-N	29-N	96-W	94-W	OGC	192	1
28039	09/30/83	19.2	14.9	4.3	28-N	29-N	96-W	94-W	OGC	159	0
28031	09/30/83	6.1	14.9	-8.8	29-N	29-N	95-W	95-W	OGC	232	1
28032	09/30/83	9.1	14.9	-5.8	29-N	29-N	95-W	95-W	OGC	210	1
28033	09/30/83	12.2	14.9	-2.7	29-N	29-N	94-W	95-W	OGC	205	0
28034	09/30/83	13.7	14.9	-1.2	29-N	29-N	95-W	94-W	OGC	204	1
28036	09/30/83	15.2	14.9	.3	29-N	28-N	95-W	96-W	OGC	199	0
28035	09/30/83	15.2	14.9	.3	29-N	29-N	94-W	95-W	OGC	203	1
28021	09/29/83	16.8	15.5	1.3	29-N	28-N	93-W	94-W	OGC	192	0
28038	09/30/83	18.3	14.9	3.4	29-N	29-N	93-W	95-W	OGC	145	1
28011	09/28/83	16.8	15.3	1.5	30-N	31-N	93-W	93-W	OGC	184	0
28019	09/28/83	19.2	15.2	4.0	33-N	33-N	93-W	93-W	OGC	124	1
28018	09/28/83	19.2	13.5	5.7	37-N	34-N	93-W	93-W	OGC	111	1
28013	09/28/83	16.8	11.8	5.0	38-N	39-N	93-W	93-W	OGC	179	1
28017	09/28/83	19.2	11.8	7.4	41-N	39-N	92-W	92-W	OGC	122	0
28014	09/28/83	16.8	11.2	5.6	42-N	45-N	93-W	93-W	OGC	193	0
28016	09/28/83	19.2	11.2	8.0	45-N	44-N	92-W	92-W	OGC	127	1
28015	09/28/83	19.2	10.8	8.4	47-N	45-N	92-W	92-W	OGC	133	0
29013	11/30/83	13.7	14.5	- .8	21-N	21-N	92-W	91-W	OGC	206	0
29012	11/30/83	13.7	14.5	- .8	21-N	21-N	94-W	92-W	OGC	203	0
29014	11/30/83	15.2	14.5	.7	21-N	21-N	91-W	91-W	OGC	204	1
29015	11/30/83	16.8	14.5	2.3	21-N	21-N	91-W	93-W	OGC	199	1
29016	11/30/83	19.8	14.6	5.2	21-N	24-N	93-W	93-W	OGC	142	0
29011	11/30/83	15.2	14.8	.4	27-N	21-N	94-W	94-W	OGC	212	0
29052	11/23/83	18.3	13.1	5.2	27-N	22-N	152-W	157-W	OGC	192	1
29017	11/30/83	19.8	14.0	5.8	27-N	27-N	94-W	94-W	OGC	156	1
29018	11/30/83	19.8	14.0	5.8	27-N	30-N	94-W	93-W	OGC	147	1
29043	11/16/83	15.2	13.4	1.8	30-N	33-N	96-W	99-W	OGC	191	0
29019	11/30/83	16.8	14.5	2.3	30-N	30-N	96-W	96-W	OGC	188	1
29044	11/16/83	15.2	12.2	3.0	35-N	35-N	101-W	101-W	OGC	196	1

TABLE 1 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
29045	11/16/83	15.2	12.2	3.0	39-N	41-N	106-W	109-W	OGC	192	1
29046	11/16/83	15.2	10.0	5.2	45-N	45-N	117-W	117-W	OGC	171	0
29047	11/17/83	9.1	10.2	-1.1	46-N	45-N	122-W	123-W	OGC	200	1
29048	11/17/83	13.7	10.0	3.7	47-N	49-N	124-W	125-W	OGC	175	0
29039	11/22/83	16.8	10.0	6.8	51-N	50-N	130-W	130-W	OGC	141	1
29049	11/17/83	13.7	10.0	3.7	53-N	55-N	135-W	139-W	OGC	145	0
29035	11/21/83	19.2	10.9	8.3	53-N	56-N	150-W	150-W	OGC	124	0
29036	11/21/83	19.2	10.5	8.7	56-N	59-N	150-W	150-W	OGC	119	0
29037	11/21/83	16.8	10.0	6.8	59-N	61-N	150-W	149-W	OGC	122	1
29034	11/21/83	15.2	10.0	5.2	60-N	59-N	150-W	150-W	OGC	155	1
29031	11/20/83	3.1	10.3	-7.2	61-N	62-N	148-W	147-W	OGC	217	1
29038	11/21/83	13.7	10.0	3.7	61-N	61-N	149-W	149-W	OGC	187	1
29032	11/20/83	6.1	10.3	-4.2	62-N	62-N	146-W	145-W	OGC	217	1
29021	11/18/83	12.2	8.0	4.2	62-N	64-N	150-W	149-W	OGC	169	1
29025	11/19/83	15.2	8.1	7.1	63-N	65-N	149-W	149-W	OGC	104	0
29024	11/18/83	16.8	7.8	9.0	65-N	62-N	149-W	149-W	OGC	102	0
29028	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	59	0
29029	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	65	0
29022	11/18/83	12.2	8.0	4.2	68-N	71-N	149-W	148-W	OGC	177	0
29023	11/18/83	12.2	8.0	4.2	71-N	75-N	148-W	148-W	OGC	175	1

TABLE 2

CONCENTRATION OF SF₆ IN PROJECT AIRSTREAM SAMPLES
(fL L⁻¹)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 2	11/07/73	15.2	13.0	2.2	37-N	41-N	108-W	112-W	HASL	200	10
G 6	11/07/73	15.2	11.7	3.5	41-N	46-N	112-W	114-W	HASL	190	10
G 4	11/07/73	15.2	11.7	3.5	41-N	46-N	112-W	114-W	HASL	210	10
G 8	11/07/73	15.2	9.9	5.3	46-N	50-N	114-W	118-W	HASL	210	10
G 14	11/07/73	13.7	9.9	3.8	48-N	45-N	116-W	114-W	HASL	200	10
G 10	11/07/73	13.7	9.9	3.8	51-N	48-N	119-W	116-W	HASL	210	10
G 12	11/07/73	13.7	9.9	3.8	51-N	48-N	119-W	116-W	HASL	200	10
G 23	02/14/74	13.7	13.0	.7	35-N	35-N	99-W	102-W	HASL	340	20
G 22	02/14/74	13.7	13.0	.7	35-N	35-N	99-W	102-W	HASL	300	10
G 16	02/14/74	13.7	11.0	2.7	37-N	40-N	102-W	96-W	HASL	190	10
G 17	02/14/74	13.7	11.0	2.7	37-N	39-N	102-W	95-W	HASL	190	10
G 21	02/14/74	13.7	11.0	2.7	39-N	36-N	95-W	98-W	HASL	230	10
G 20	02/14/74	13.7	11.0	2.7	39-N	36-N	95-W	98-W	HASL	220	10
G 19	02/14/74	13.7	11.0	2.7	40-N	39-N	95-W	95-W	HASL	220	10
G 18	02/14/74	13.7	11.0	2.7	40-N	39-N	95-W	95-W	HASL	250	10
G 34	04/20/74	16.8	16.5	.3	0-S	3-S	79-W	79-W	HASL	250	10
G 37	04/17/74	18.5	16.2	2.3	3-S	0-S	80-W	79-W	HASL	200	10
G 35	04/20/74	19.2	16.5	2.7	3-S	0-S	79-W	79-W	HASL	200	10
G 32	04/13/74	15.2	16.4	-1.2	5-N	1-N	79-W	79-W	HASL	260	10
G 31	04/19/74	18.3	16.6	1.7	14-N	12-N	82-W	81-W	HASL	210	10
G 33	04/13/74	18.3	16.0	2.3	14-S	14-S	76-W	76-W	HASL	300	0
G 36	04/17/74	15.5	16.6	-1.1	19-S	17-S	74-W	75-W	HASL	240	10
G 38	04/16/74	16.8	17.0	-.2	19-S	16-S	74-W	75-W	HASL	230	10
G 39	04/16/74	19.2	17.0	2.2	19-S	2-S	74-W	74-W	HASL	210	10
G 30	04/21/74	19.2	13.4	5.8	27-N	29-N	93-W	96-W	HASL	200	10
G 29	04/12/74	16.8	12.2	4.6	30-N	27-N	101-W	99-W	HASL	200	10
G 40	04/15/74	15.2	16.6	-1.4	34-S	37-S	65-W	66-W	HASL	300	0
G 28	04/16/74	15.2	12.1	3.1	37-N	34-N	104-W	106-W	HASL	220	10
G 26	04/17/74	15.2	11.4	3.8	38-N	42-N	109-W	112-W	HASL	160	10
G 27	04/17/74	13.7	11.4	2.3	42-N	40-N	112-W	110-W	HASL	250	10
G 25	04/29/74	19.2	12.5	6.7	51-N	46-N	119-W	115-W	HASL	140	10
G 24	04/29/74	16.8	10.0	6.8	63-N	60-N	140-W	133-W	HASL	170	10
G 65	10/23/74	18.3	15.3	3.0	1-N	6-N	80-W	80-W	HASL	290	10
G 62	10/23/74	15.2	15.3	-.1	5-N	0	80-W	80-W	HASL	320	10
G 63	10/23/74	15.2	15.3	-.1	7-S	10-S	80-W	80-W	HASL	330	10
G 64	10/23/74	18.3	15.3	3.0	10-S	7-S	80-W	80-W	HASL	290	10
G 66	10/25/74	15.2	15.4	-.2	12-N	15-N	81-W	83-W	HASL	320	10
G 60	10/22/74	16.8	15.1	1.7	12-N	15-N	81-W	83-W	HASL	330	20
G 61	10/22/74	19.2	15.1	4.1	15-N	12-N	83-W	81-W	HASL	280	10
G 67	10/25/74	18.3	15.6	2.7	24-N	27-N	90-W	93-W	HASL	260	20
G 58	10/18/74	19.2	15.9	3.3	24-N	27-N	90-W	93-W	HASL	260	10

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 57	10/14/74	16.8	16.1	.7	27-N	24-N	93-W	90-W	HASL	300	10
G 43	10/09/74	16.8	14.6	2.2	36-N	39-N	99-W	107-W	HASL	250	10
G 59	10/19/74	13.7	16.1	-2.4	39-N	37-N	102-W	100-W	HASL	340	10
G 56	10/17/74	19.2	14.2	5.0	39-N	36-N	95-W	95-W	HASL	140	10
G 41	10/10/74	13.7	10.1	3.6	48-N	49-N	111-W	114-W	HASL	250	10
G 47	10/09/74	16.8	11.7	5.1	48-N	51-N	112-W	116-W	HASL	210	10
G 54	10/15/74	15.2	13.6	1.6	52-N	50-N	118-W	114-W	HASL	300	10
G 42	10/09/74	19.1	11.2	7.9	52-N	50-N	118-W	114-W	HASL	160	10
G 52	10/14/74	18.7	10.9	7.8	58-N	60-N	132-W	142-W	HASL	180	10
G 49	10/10/74	13.7	9.0	4.7	59-N	60-N	132-W	141-W	HASL	210	10
G 53	10/15/74	15.2	10.6	4.6	61-N	60-N	150-W	143-W	HASL	250	10
G 51	10/14/74	16.8	10.9	5.9	61-N	60-N	150-W	141-W	HASL	300	10
G 45	10/12/74	12.2	9.5	2.7	71-N	73-N	148-W	148-W	HASL	260	10
G 44	10/13/74	16.8	9.4	7.4	71-N	75-N	149-W	149-W	HASL	190	20
G 48	10/12/74	12.2	9.5	2.7	72-N	74-N	148-W	148-W	HASL	220	20
G 46	10/12/74	15.3	9.5	5.8	75-N	73-N	148-W	148-W	HASL	200	10
G 50	10/13/74	19.0	9.4	9.6	75-N	70-N	148-W	148-W	HASL	170	10
G 75	04/23/75	19.2	16.5	2.7	1-N	6-N	79-W	80-W	HASL	270	10
G 69	04/22/75	15.2	16.5	-1.3	4-N	1-N	80-W	80-W	HASL	310	10
G 77	04/21/75	16.8	16.5	.3	12-N	18-N	82-W	84-W	HASL	300	10
G 72	04/24/75	18.3	16.5	1.8	12-N	15-N	81-W	83-W	HASL	240	10
G 79	04/21/75	19.2	16.5	2.7	15-N	11-N	83-W	81-W	HASL	240	10
G 76	04/24/75	18.3	16.5	1.8	16-N	22-N	83-W	86-W	HASL	230	10
G 74	04/19/75	18.3	16.5	1.8	17-N	13-N	84-W	82-W	HASL	240	10
G 97	04/26/75	19.2	15.5	3.7	19-N	24-N	86-W	90-W	HASL	210	10
G 89	04/26/75	16.8	15.5	1.3	21-N	18-N	86-W	85-W	HASL	280	20
G 70	04/24/75	18.3	13.7	4.6	24-N	27-N	90-W	93-W	HASL	250	10
G 96	04/26/75	19.2	14.4	4.8	24-N	27-N	90-W	93-W	HASL	230	10
G 68	04/19/75	15.2	16.3	-1.1	27-N	21-N	92-W	86-W	HASL	310	20
G 95	04/26/75	16.8	14.4	2.4	27-N	24-N	92-W	90-W	HASL	310	10
G 94	05/07/75	13.7	11.7	2.0	33-N	30-N	97-W	95-W	HASL	280	10
G 78	04/25/75	15.2	12.9	2.3	35-N	39-N	96-W	96-W	HASL	290	10
G 88	04/27/75	16.7	10.8	5.9	36-N	39-N	99-W	102-W	HASL	270	10
G 98	05/07/75	13.7	11.2	2.5	39-N	36-N	102-W	100-W	HASL	270	10
G 71	04/25/75	19.2	13.0	6.2	39-N	36-N	96-W	96-W	HASL	210	10
G 92	04/28/75	13.7	9.8	3.9	48-N	52-N	111-W	118-W	HASL	240	10
G 91	04/27/75	16.8	10.9	5.9	48-N	51-N	112-W	116-W	HASL	180	10
G 83	05/06/75	15.2	10.6	4.6	52-N	49-N	119-W	115-W	HASL	220	10
G 90	04/27/75	19.1	10.9	8.2	52-N	48-N	118-W	112-W	HASL	160	10
G 80	05/02/75	19.1	9.6	9.5	58-N	60-N	140-W	145-W	HASL	160	10
G 93	04/28/75	13.7	8.8	4.9	59-N	60-N	138-W	144-W	HASL	210	10
G 82	05/02/75	16.8	9.6	7.2	60-N	58-N	150-W	140-W	HASL	180	10
G 87	05/06/75	15.2	10.6	4.6	61-N	59-N	150-W	138-W	HASL	230	10

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 86	04/29/75	12.2	7.9	4.3	71-N	75-N	148-W	148-W	HASL	240	10
G 81	05/01/75	16.7	8.8	7.9	71-N	75-N	148-W	148-W	HASL	200	0
G 84	04/29/75	14.9	8.2	6.7	75-N	71-N	148-W	148-W	HASL	200	10
G 85	05/01/75	18.3	8.8	9.5	75-N	71-N	148-W	148-W	HASL	170	10
G 105	08/01/75	16.8	15.5	1.3	5-N	1-N	80-W	80-W	HASL	280	10
G 117	08/02/75	15.2	16.5	-1.3	12-N	15-N	81-W	83-W	HASL	300	10
G 106	07/25/75	18.3	16.3	2.0	15-N	12-N	83-W	81-W	HASL	270	10
G 118	08/02/75	18.3	15.5	2.8	24-N	27-N	90-W	93-W	HASL	230	10
G 119	08/06/75	19.2	15.0	4.2	24-N	27-N	95-W	95-W	HASL	230	10
G 104	07/25/75	15.2	15.0	.2	27-N	24-N	92-W	90-W	HASL	260	10
G 116	08/06/75	16.8	15.0	1.8	27-N	24-N	95-W	95-W	HASL	260	10
G 122	07/23/75	15.2	16.1	-.9	36-N	39-N	95-W	94-W	HASL	280	10
G 101	07/15/75	16.8	15.4	1.4	36-N	39-N	100-W	100-W	HASL	270	10
G 114	07/20/75	13.7	15.9	-2.2	39-N	36-N	102-W	100-W	HASL	300	10
G 121	07/23/75	19.2	16.1	3.1	39-N	36-N	94-W	95-W	HASL	210	10
G 102	07/16/75	13.7	11.2	2.5	48-N	50-N	121-W	129-W	HASL	310	10
G 111	07/19/75	19.2	11.6	7.6	48-N	52-N	134-W	134-W	HASL	180	10
G 113	07/20/75	15.2	11.2	4.0	52-N	48-N	132-W	122-W	HASL	230	10
G 120	07/19/75	16.8	11.6	5.2	52-N	48-N	134-W	134-W	HASL	220	10
G 107	07/19/75	19.2	10.9	8.3	58-N	61-N	139-W	147-W	HASL	180	10
G 103	07/16/75	13.7	10.0	3.7	59-N	61-N	146-W	150-W	HASL	290	10
G 112	07/20/75	15.2	10.9	4.3	61-N	58-N	150-W	142-W	HASL	210	10
G 110	07/19/75	16.8	10.8	6.0	61-N	58-N	150-W	139-W	HASL	210	10
G 99	07/17/75	12.2	11.1	1.1	71-N	75-N	149-W	148-W	HASL	300	10
G 109	07/18/75	16.8	11.1	5.7	71-N	75-N	148-W	149-W	HASL	220	10
G 100	07/17/75	15.2	11.1	4.1	75-N	71-N	148-W	148-W	HASL	270	10
G 108	07/18/75	18.3	11.1	7.2	75-N	71-N	148-W	149-W	HASL	190	10
G 130	05/27/76	19.2	16.1	3.1	2-N	6-N	80-W	80-W	WSU	299	63
G 155	05/27/76	19.2	16.2	3.0	2-N	6-N	80-W	80-W	WSU	278	21
G 141	05/26/76	15.2	16.2	-1.0	7-S	10-S	79-W	78-W	WSU	342	42
G 145	05/26/76	18.3	16.2	2.1	10-S	7-S	78-W	79-W	WSU	299	21
G 154	05/27/76	19.2	16.2	3.0	10-S	6-S	78-W	79-W	WSU	299	21
G 150	05/28/76	15.2	16.2	-1.0	12-N	15-N	81-W	83-W	WSU	299	211
G 144	05/24/76	18.3	16.2	2.1	15-N	12-N	83-W	81-W	WSU	321	84
G 146	05/25/76	19.2	16.2	3.0	15-N	12-N	79-W	79-W	WSU	278	42
G 153	05/28/76	15.2	15.5	-.3	24-N	27-N	90-W	93-W	WSU	214	0
G 159	06/09/76	19.2	15.6	3.6	24-N	26-N	95-W	95-W	WSU	235	21
G 156	05/24/76	15.2	14.0	1.2	27-N	24-N	93-W	90-W	WSU	363	84
G 158	06/09/76	16.8	15.6	1.2	27-N	24-N	95-W	95-W	WSU	342	84
G 151	06/08/76	15.2	12.6	2.6	36-N	39-N	95-W	95-W	WSU	299	42
G 131	06/01/76	16.8	13.6	3.2	36-N	39-N	103-W	106-W	WSU	256	15
G 149	06/07/76	13.7	14.2	-.5	39-N	36-N	108-W	104-W	WSU	278	211
G 147	06/08/76	19.2	12.6	6.6	39-N	36-N	95-W	95-W	WSU	278	105

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 133	06/02/76	13.7	8.6	5.1	47-N	50-N	122-W	127-W	WSU	278	63
G 157	06/06/76	19.2	9.7	9.5	47-N	50-N	129-W	129-W	WSU	256	42
G 132	06/01/76	16.8	8.3	8.5	48-N	50-N	123-W	128-W	WSU	278	15
G 152	06/06/76	15.2	9.7	5.5	52-N	48-N	135-W	131-W	WSU	278	42
G 140	06/05/76	19.2	10.6	8.6	58-N	61-N	142-W	147-W	WSU	214	21
G 148	06/06/76	15.2	11.0	4.2	61-N	58-N	148-W	143-W	WSU	278	211
G 135	06/03/76	13.3	10.2	3.1	71-N	74-N	148-W	149-W	WSU	278	63
G 137	06/04/76	15.2	10.5	4.7	71-N	75-N	148-W	148-W	WSU	278	42
G 136	06/03/76	16.8	10.2	6.6	75-N	71-N	149-W	148-W	WSU	214	21
G 138	06/04/76	18.3	10.5	7.8	75-N	71-N	149-W	148-W	WSU	235	84
G 170	08/20/76	18.3	15.7	2.6	2-N	6-N	80-W	80-W	WSU	342	126
G 168	08/21/76	19.2	15.1	4.1	2-N	6-N	80-W	80-W	WSU	321	63
G 178	08/20/76	15.2	15.3	-1	6-N	2-N	80-W	80-W	WSU	342	21
G 177	08/21/76	16.8	15.1	1.7	6-N	2-N	80-W	80-W	WSU	321	84
G 173	08/20/76	15.2	15.7	-5	7-S	10-S	79-W	78-W	WSU	299	21
G 175	08/21/76	16.8	15.7	1.1	7-S	10-S	78-W	78-W	WSU	321	0
G 169	08/20/76	18.3	15.8	2.5	10-S	7-S	78-W	79-W	WSU	321	0
G 172	08/21/76	19.2	15.7	3.5	10-S	7-S	78-W	79-W	WSU	256	21
G 192	08/22/76	15.2	15.1	1	12-N	15-N	81-W	83-W	WSU	385	84
G 180	08/18/76	16.9	15.8	1.1	12-N	15-N	79-W	79-W	WSU	342	0
G 181	08/17/76	18.3	15.6	2.7	15-N	12-N	93-W	81-W	WSU	278	0
G 171	08/18/76	19.2	15.8	3.4	15-N	12-N	79-W	79-W	WSU	278	21
G 167	08/13/76	19.2	15.8	3.4	18-N	21-N	86-W	86-W	WSU	321	21
G 161	08/12/76	19.2	15.9	3.3	20-N	24-N	95-W	96-W	WSU	321	63
G 163	08/12/76	16.8	15.9	.9	23-N	20-N	96-W	95-W	WSU	321	84
G 174	08/13/76	15.2	16.0	-8	24-N	21-N	87-W	86-W	WSU	342	63
G 191	08/22/76	18.3	14.7	3.6	24-N	27-N	87-W	90-W	WSU	299	63
G 162	08/12/76	19.2	15.9	3.3	24-N	27-N	96-W	95-W	WSU	256	21
G 176	08/13/76	19.2	16.0	3.2	24-N	27-N	87-W	89-W	WSU	278	21
G 179	08/17/76	15.2	15.5	-.3	27-N	24-N	93-W	90-W	WSU	321	84
G 182	08/13/76	16.8	16.0	.8	27-N	24-N	90-W	82-W	WSU	299	0
G 160	08/12/76	16.8	15.9	.9	27-N	23-N	95-W	96-W	WSU	342	21
G 188	08/23/76	15.2	15.1	.1	36-N	39-N	97-W	97-W	WSU	342	0
G 183	08/25/76	16.8	15.9	.9	36-N	39-N	106-W	110-W	WSU	342	211
G 164	08/31/76	13.7	16.7	-3.0	39-N	36-N	107-W	103-W	WSU	363	84
G 187	08/23/76	19.2	15.1	4.1	39-N	36-N	96-W	96-W	WSU	235	0
G 194	08/26/76	13.7	12.0	1.7	47-N	50-N	124-W	127-W	WSU	342	42
G 190	08/25/76	16.8	9.9	6.9	48-N	50-N	123-W	128-W	WSU	278	21
G 198	08/25/76	19.2	10.0	9.2	50-N	47-N	129-W	125-W	WSU	235	211
G 195	08/25/76	19.2	10.0	9.2	50-N	47-N	129-W	125-W	WSU	214	211
G 166	08/30/76	15.2	11.5	3.7	52-N	49-N	132-W	127-W	WSU	299	84
G 193	08/29/76	18.9	9.7	9.2	58-N	61-N	142-W	147-W	WSU	214	63
G 189	08/26/76	13.7	10.2	3.5	59-N	61-N	143-W	147-W	WSU	363	21

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 165	08/30/76	15.2	10.0	5.2	61-N	58-N	145-W	139-W	WSU	299	42
G 186	08/29/76	16.8	9.7	7.1	61-N	58-N	147-W	147-W	WSU	278	0
G 197	08/21/76	12.5	10.0	2.5	71-N	74-N	148-W	148-W	WSU	342	211
G 185	08/27/76	16.8	10.9	5.9	75-N	72-N	149-W	149-W	WSU	278	0
G 184	08/28/76	18.7	11.1	7.6	75-N	71-N	147-W	148-W	WSU	214	0
G 210	11/14/76	18.3	17.1	1.2	2-N	6-N	80-W	80-W	WSU	278	0
G 235	11/15/76	19.2	17.0	2.2	2-N	6-N	80-W	80-W	WSU	278	21
G 218	11/15/76	19.2	16.9	2.3	2-N	6-N	80-W	80-W	WSU	235	42
G 211	11/14/76	15.2	17.1	-1.9	6-N	2-N	80-W	80-W	WSU	321	63
G 213	11/15/76	16.8	17.0	-2	6-N	2-N	80-W	80-W	WSU	321	63
G 220	11/14/76	15.2	17.3	-2.1	7-S	10-S	78-W	78-W	WSU	321	21
G 214	11/15/76	16.8	16.5	.3	7-S	10-S	80-W	78-W	WSU	278	21
G 221	11/14/76	18.3	17.3	1.0	10-S	7-S	78-W	79-W	WSU	278	21
G 217	11/15/76	19.2	16.4	2.8	10-S	7-S	78-W	79-W	WSU	321	0
G 200	11/16/76	15.2	16.7	-1.5	12-N	15-N	81-W	83-W	WSU	321	21
G 219	11/13/76	19.2	17.6	1.6	12-N	15-N	79-W	79-W	WSU	299	21
G 212	11/13/76	16.8	16.8	0	15-N	12-N	79-W	79-W	WSU	299	21
G 216	11/11/76	18.3	16.4	1.9	15-N	12-N	83-W	81-W	WSU	214	211
G 203	11/16/76	18.3	15.2	3.1	24-N	27-N	87-W	90-W	WSU	321	42
G 201	11/17/76	19.2	15.3	3.9	24-N	27-N	96-W	95-W	WSU	278	21
G 215	11/11/76	15.2	16.1	-.9	27-N	24-N	90-W	87-W	WSU	321	0
G 205	11/17/76	16.8	15.3	1.5	27-N	24-N	95-W	95-W	WSU	321	42
G 207	10/28/76	15.2	11.8	3.4	36-N	37-N	98-W	98-W	WSU	299	21
G 224	10/30/76	16.8	12.4	4.4	36-N	39-N	105-W	108-W	WSU	278	21
G 209	10/28/76	15.2	11.9	3.3	37-N	39-N	98-W	98-W	WSU	299	42
G 204	10/28/76	19.2	11.9	7.3	38-N	37-N	98-W	98-W	WSU	235	21
G 206	11/08/76	13.7	12.8	.9	39-N	36-N	106-W	103-W	WSU	321	0
G 208	10/28/76	19.2	11.9	7.3	39-N	38-N	98-W	98-W	WSU	214	0
G 229	10/31/76	13.7	11.4	2.3	47-N	50-N	124-W	127-W	WSU	342	21
G 227	10/30/76	16.8	11.3	5.5	48-N	50-N	124-W	128-W	WSU	278	21
G 223	10/30/76	19.2	11.4	7.8	50-N	48-N	128-W	125-W	WSU	235	63
G 199	11/07/76	15.2	11.4	3.8	52-N	49-N	130-W	126-W	WSU	361	21
G 231	11/06/76	19.2	8.6	10.6	58-N	61-N	154-W	154-W	WSU	299	21
G 226	10/31/76	13.7	8.2	5.5	59-N	60-N	143-W	144-W	WSU	278	0
G 202	11/07/76	15.2	9.7	5.5	61-N	59-N	146-W	140-W	WSU	278	0
G 225	11/06/76	16.8	8.6	8.2	61-N	58-N	154-W	154-W	WSU	235	0
G 222	11/04/76	12.2	9.0	3.2	71-N	74-N	148-W	148-W	WSU	278	21
G 230	11/05/76	15.2	9.7	5.5	71-N	76-N	148-W	147-W	WSU	278	42
G 228	11/04/76	16.8	9.0	7.8	75-N	71-N	147-W	148-W	WSU	214	0
G 232	11/05/76	18.3	9.7	8.6	75-N	71-N	147-W	148-W	WSU	171	21
G 251	03/30/77	18.3	17.7	.6	2-N	6-N	80-W	80-W	WSU	339	5
G 252	03/31/77	19.2	17.7	1.5	2-N	6-N	80-W	80-W	WSU	324	0
G 249	03/31/77	15.2	17.7	-2.5	6-N	3-N	80-W	80-W	WSU	354	0

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 247	03/30/77	16.8	17.7	- .9	6-N	2-S	80-W	80-W	WSU	354	10
G 248	03/31/77	19.2	17.7	1.5	10-S	7-S	78-W	79-W	WSU	332	0
G 262	04/02/77	15.2	16.2	-1.0	12-N	15-N	81-W	83-W	WSU	354	5
G 246	04/01/77	16.8	16.4	.4	12-N	15-N	79-W	79-W	WSU	354	0
G 250	03/30/77	18.3	17.2	1.1	15-N	12-N	83-W	81-W	WSU	354	5
G 253	04/01/77	19.2	16.4	2.8	15-N	12-N	79-W	79-W	WSU	265	0
G 266	03/23/77	19.2	17.0	2.2	24-N	27-N	94-W	94-W	WSU	309	46
G 257	03/23/77	19.2	17.0	2.2	24-N	27-N	94-W	94-W	WSU	309	20
G 264	03/23/77	16.8	17.0	- .2	27-N	24-N	94-W	94-W	WSU	354	15
G 263	03/24/77	15.2	11.0	4.2	36-N	39-N	96-W	96-W	WSU	324	0
G 258	04/10/77	13.7	13.0	.7	39-N	36-N	107-W	103-W	WSU	317	15
G 256	03/24/77	19.2	11.0	8.2	39-N	36-N	96-W	95-W	WSU	206	5
G 265	04/09/77	15.2	10.4	4.8	52-N	50-N	132-W	127-W	WSU	280	5
G 261	04/09/77	15.2	9.1	6.1	61-N	60-N	145-W	139-W	WSU	280	0
G 241	04/07/77	16.8	8.8	8.0	61-N	58-N	150-W	150-W	WSU	221	0
G 242	04/06/77	12.2	8.1	4.1	71-N	75-N	148-W	147-W	WSU	258	0
G 244	04/07/77	15.2	7.4	7.8	71-N	75-N	149-W	148-W	WSU	191	5
G 243	04/06/77	16.8	8.1	8.7	75-N	71-N	149-W	148-W	WSU	206	5
G 245	04/07/77	18.3	7.4	10.9	75-N	71-N	149-W	149-W	WSU	206	5
G 290	07/10/77	19.2	16.2	3.0	2-N	6-N	80-W	80-W	WSU	302	0
G 302	07/11/77	3.1	15.3	-12.2	6-N	6-N	81-W	81-W	WSU	398	0
G 295	07/11/77	6.1	15.5	-9.4	6-N	6-N	81-W	81-W	WSU	339	5
G 297	07/11/77	9.1	15.5	-6.4	6-N	6-N	81-W	81-W	WSU	376	0
G 294	07/11/77	12.2	15.5	-3.3	6-N	6-N	81-W	81-W	WSU	354	0
G 279	07/10/77	15.2	16.2	-1.0	6-N	2-N	80-W	80-W	WSU	339	0
G 275	07/10/77	18.3	16.2	2.1	6-N	2-N	80-W	80-W	WSU	317	0
G 300	07/12/77	15.2	15.6	- .4	12-N	15-N	81-W	83-W	WSU	339	0
G 289	07/09/77	16.8	16.2	.6	12-N	15-N	79-W	79-W	WSU	354	0
G 286	07/08/77	18.3	16.2	2.1	15-N	12-N	83-W	81-W	WSU	309	15
G 277	07/09/77	19.2	16.2	3.0	15-N	12-N	79-W	79-W	WSU	295	10
G 287	07/12/77	18.3	15.9	2.4	24-N	27-N	87-W	90-W	WSU	309	5
G 276	07/07/77	19.2	15.2	4.0	24-N	27-N	94-W	94-W	WSU	265	5
G 278	07/22/77	15.2	15.0	.2	27-N	27-N	95-W	94-W	WSU	369	5
G 301	07/08/77	15.2	13.8	1.4	27-N	24-N	90-W	87-W	WSU	354	15
G 296	07/07/77	16.8	15.2	1.6	27-N	24-N	94-W	94-W	WSU	324	5
G 285	07/22/77	3.1	15.0	-11.9	28-N	28-N	95-W	95-W	WSU	391	10
G 283	07/22/77	13.7	15.0	-1.3	28-N	27-N	95-W	95-W	WSU	398	5
G 282	07/14/77	15.2	15.2	0	36-N	39-N	98-W	98-W	WSU	354	10
G 298	07/14/77	16.8	15.1	1.7	36-N	39-N	106-W	109-W	WSU	309	5
G 281	07/21/77	13.7	15.0	-1.3	39-N	36-N	107-W	104-W	WSU	383	5
G 292	07/14/77	19.2	15.2	4.0	39-N	36-N	96-W	96-W	WSU	265	0
G 384	07/15/77	13.7	12.5	1.2	47-N	51-N	125-W	131-W	WSU	282	5
G 386	07/15/77	13.7	12.5	1.2	48-N	48-N	124-W	125-W	WSU	250	0

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 280	07/14/77	16.8	12.5	4.3	48-N	50-N	124-W	128-W	WSU	280	0
G 284	07/14/77	19.2	12.5	6.7	50-N	47-N	129-W	127-W	WSU	221	5
G 305	07/20/77	15.2	11.2	4.0	52-N	51-N	132-W	129-W	WSU	295	5
G 274	07/19/77	19.2	9.8	9.4	58-N	61-N	148-W	148-W	WSU	221	0
G 379	07/15/77	13.7	10.3	3.4	59-N	62-N	143-W	147-W	WSU	228	5
G 303	07/20/77	15.2	10.6	4.6	60-N	58-N	142-W	139-W	WSU	302	10
G 293	07/18/77	3.1	10.4	-7.3	61-N	61-N	148-W	149-W	WSU	413	0
G 288	07/18/77	6.1	10.4	-4.3	61-N	61-N	148-W	148-W	WSU	435	51
G 299	07/18/77	12.2	10.4	1.8	61-N	62-N	149-W	148-W	WSU	309	5
G 304	07/20/77	15.2	10.6	4.6	61-N	60-N	147-W	142-W	WSU	295	5
G 291	07/19/77	16.8	10.4	6.4	61-N	59-N	148-W	148-W	WSU	280	5
G 381	07/16/77	12.2	10.1	2.1	71-N	74-N	148-W	148-W	WSU	239	5
G 383	07/17/77	15.2	9.5	5.7	71-N	75-N	148-W	147-W	WSU	228	0
G 362	10/15/77	16.8	17.1	-3	2-N	6-N	80-W	80-W	WSU	369	7
G 356	10/15/77	19.2	17.1	2.1	2-N	6-N	80-W	80-W	WSU	354	0
G 351	10/15/77	15.2	17.1	-1.9	6-N	2-N	80-W	80-W	WSU	376	42
G 346	10/15/77	18.3	17.1	1.2	6-N	2-N	80-W	80-W	WSU	354	7
G 361	10/16/77	3.1	16.3	-13.2	7-N	7-N	81-W	81-W	WSU	383	7
G 347	10/16/77	6.1	16.3	-10.2	7-N	7-N	81-W	82-W	WSU	398	7
G 358	10/16/77	9.1	16.3	-7.2	7-N	7-N	82-W	82-W	WSU	391	0
G 359	10/16/77	12.2	11.3	.9	7-N	6-N	82-W	82-W	WSU	398	0
G 349	10/17/77	13.7	14.6	-.9	7-N	12-N	79-W	80-W	WSU	383	21
G 353	10/17/77	13.7	15.6	-1.9	12-N	15-N	81-W	83-W	WSU	383	7
G 348	10/14/77	16.8	15.2	1.6	12-N	15-N	79-W	79-W	WSU	376	0
G 336	10/13/77	15.2	16.0	-.8	14-N	12-N	82-W	81-W	WSU	383	7
G 343	10/14/77	19.2	15.2	4.0	14-N	11-N	79-W	79-W	WSU	339	0
G 345	10/14/77	19.2	15.2	4.0	15-N	12-N	79-W	80-W	WSU	317	14
G 357	10/17/77	13.7	15.2	-1.5	24-N	26-N	88-W	91-W	WSU	413	63
G 364	10/27/77	19.2	15.2	4.0	24-N	27-N	94-W	94-W	WSU	295	0
G 355	10/27/77	13.7	15.2	-1.5	27-N	24-N	94-W	94-W	WSU	369	14
G 365	10/29/77	18.3	15.0	3.3	27-N	30-N	94-W	94-W	WSU	324	21
G 335	10/12/77	9.1	15.0	-5.9	28-N	29-N	94-W	93-W	WSU	435	42
G 354	10/12/77	3.1	14.5	-11.4	29-N	28-N	95-W	95-W	WSU	413	7
G 350	10/12/77	13.7	14.5	-.8	29-N	29-N	93-W	94-W	WSU	383	0
G 338	10/12/77	15.2	14.0	1.2	30-N	30-N	94-W	93-W	WSU	369	0
G 342	10/29/77	16.8	15.5	1.3	36-N	39-N	93-W	93-W	WSU	369	7
G 352	10/20/77	13.7	15.0	-1.3	39-N	36-N	107-W	104-W	WSU	383	7
G 337	10/29/77	19.2	15.5	3.7	39-N	36-N	93-W	93-W	WSU	280	7
G 334	10/21/77	13.7	12.5	1.2	47-N	49-N	124-W	127-W	WSU	383	0
G 329	10/20/77	15.2	12.5	2.7	47-N	48-N	122-W	127-W	WSU	339	7
G 363	10/25/77	19.2	14.3	4.9	47-N	50-N	126-W	128-W	WSU	243	0
G 339	10/25/77	16.8	11.9	4.9	52-N	49-N	132-W	126-W	WSU	295	7
G 328	10/21/77	13.7	9.8	3.9	57-N	59-N	140-W	146-W	WSU	339	7

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 333	10/25/77	16.8	10.7	6.1	60-N	57-N	146-W	139-W	WSU	236	7
G 380	10/22/77	19.2	9.0	10.2	61-N	58-N	150-W	150-W	WSU	206	7
G 332	10/24/77	3.1	10.7	-7.6	62-N	61-N	150-W	150-W	WSU	428	0
G 344	10/24/77	9.1	10.7	-1.6	62-N	62-N	150-W	151-W	WSU	398	7
G 330	10/24/77	12.2	10.7	1.5	62-N	62-N	149-W	150-W	WSU	346	14
G 385	10/22/77	12.2	10.7	1.5	71-N	75-N	149-W	148-W	WSU	339	7
G 360	10/23/77	15.2	10.7	4.5	72-N	75-N	149-W	148-W	WSU	295	0
G 382	10/22/77	16.8	10.7	6.1	75-N	71-N	149-W	149-W	WSU	265	7
G 340	10/23/77	18.3	10.7	7.6	75-N	71-N	148-W	148-W	WSU	221	7
G 395	04/08/78	15.2	17.1	-1.9	6-N	3-N	80-W	80-W	WSU	413	0
G 396	04/08/78	18.3	17.1	1.2	6-N	2-N	80-W	79-W	WSU	295	21
G 400	04/09/78	3.1	17.1	-14.0	7-N	7-N	80-W	80-W	WSU	442	7
G 399	04/09/78	6.1	17.1	-11.0	7-N	7-N	80-W	80-W	WSU	413	7
G 398	04/09/78	9.1	17.1	-8.0	7-N	7-N	80-W	80-W	WSU	428	0
G 401	04/09/78	12.2	17.1	-4.9	7-N	7-N	80-W	80-W	WSU	405	0
G 404	04/10/78	13.7	17.0	-3.3	12-N	15-N	81-W	83-W	WSU	405	0
G 394	04/07/78	16.8	17.1	-3	12-N	11-N	79-W	79-W	WSU	383	7
G 392	04/06/78	15.2	17.1	-1.9	15-N	12-N	83-W	81-W	WSU	383	28
G 393	04/07/78	19.2	17.1	2.1	15-N	12-N	80-W	80-W	WSU	302	0
G 406	04/11/78	18.3	12.8	5.5	24-N	27-N	94-W	94-W	WSU	383	14
G 407	04/11/78	19.2	12.8	6.4	24-N	27-N	94-W	94-W	WSU	346	0
G 408	04/11/78	18.3	12.8	5.5	25-N	28-N	94-W	94-W	WSU	354	7
G 405	04/11/78	16.8	12.8	4.0	27-N	24-N	94-W	94-W	WSU	376	0
G 388	04/05/78	6.1	12.2	-6.1	29-N	29-N	94-W	93-W	WSU	450	0
G 390	04/05/78	15.2	12.2	3.0	30-N	29-N	95-W	94-W	WSU	435	0
G 409	04/13/78	16.8	11.2	5.6	36-N	39-N	93-W	93-W	WSU	354	14
G 431	04/21/78	13.7	10.1	3.6	39-N	36-N	114-W	112-W	WSU	212	19
G 410	04/13/78	19.2	11.2	8.0	39-N	36-N	93-W	94-W	WSU	369	7
G 430	04/21/78	13.7	9.8	3.9	42-N	40-N	117-W	115-W	WSU	199	13
G 429	04/21/78	13.7	9.8	3.9	45-N	43-N	120-W	118-W	WSU	206	11
G 414	04/16/78	13.7	10.4	3.3	47-N	49-N	126-W	128-W	WSU	332	0
G 413	04/14/78	15.2	8.2	7.0	47-N	49-N	102-W	125-W	WSU	309	7
G 426	04/20/78	18.9	9.1	9.8	47-N	50-N	125-W	128-W	WSU	287	0
G 412	04/14/78	15.2	8.2	7.0	50-N	47-N	127-W	124-W	WSU	317	0
G 428	04/20/78	16.8	9.1	7.7	52-N	48-N	132-W	127-W	WSU	309	0
G 415	04/16/78	13.7	9.8	3.9	57-N	59-N	141-W	145-W	WSU	332	0
G 427	04/20/78	16.8	9.3	7.5	60-N	58-N	148-W	141-W	WSU	309	0
G 422	04/19/78	3.1	9.1	-6.0	62-N	62-N	150-W	151-W	WSU	487	7
G 424	04/19/78	6.1	9.1	-3.0	62-N	62-N	150-W	151-W	WSU	472	7
G 423	04/19/78	9.1	9.1	0	62-N	62-N	151-W	151-W	WSU	457	0
G 425	04/19/78	12.2	9.1	3.1	62-N	62-N	151-W	151-W	WSU	339	7
G 418	04/17/78	19.2	9.8	9.4	62-N	58-N	150-W	151-W	WSU	265	14
G 420	04/18/78	15.2	11.1	4.1	71-N	75-N	152-W	151-W	WSU	309	7

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 421	04/18/78	18.7	11.1	7.6	75-N	71-N	151-W	151-W	WSU	273	0
G 487	07/29/78	16.8	15.9	.9	2-N	6-N	80-W	80-W	WSU	428	21
G 453	07/29/78	19.2	16.8	2.4	2-N	5-N	80-W	80-W	WSU	398	7
G 493	07/29/78	15.2	16.8	-1.6	6-N	3-N	80-W	80-W	WSU	428	14
G 488	07/29/78	18.3	15.9	2.4	6-N	2-N	80-W	80-W	WSU	383	14
G 496	07/30/78	6.1	17.1	-11.0	8-N	8-N	79-W	79-W	WSU	428	7
G 497	07/30/78	9.1	17.1	-8.0	8-N	9-N	79-W	79-W	WSU	428	7
G 484	07/30/78	3.1	17.0	-13.9	9-N	9-N	80-W	80-W	WSU	442	14
G 489	07/31/78	13.7	15.9	-2.2	12-N	15-N	82-W	83-W	WSU	428	7
G 485	07/25/78	16.8	14.6	2.2	12-N	15-N	80-W	80-W	WSU	398	14
G 495	07/31/78	13.7	14.9	-1.2	24-N	26-N	88-W	90-W	WSU	442	7
G 451	07/20/78	18.3	15.0	3.3	24-N	27-N	94-W	94-W	WSU	332	0
G 461	07/20/78	19.2	15.0	4.2	24-N	27-N	94-W	94-W	WSU	361	0
G 456	07/24/78	15.2	13.7	1.5	27-N	25-N	92-W	89-W	WSU	398	7
G 450	07/11/78	3.1	15.4	-12.3	29-N	29-N	95-W	95-W	WSU	457	7
G 455	07/11/78	9.1	15.4	-6.3	29-N	29-N	95-W	95-W	WSU	472	7
G 458	07/11/78	13.7	15.4	-1.7	29-N	29-N	95-W	95-W	WSU	442	7
G 465	07/11/78	15.2	15.4	-.2	29-N	29-N	94-W	94-W	WSU	428	7
G 464	07/21/78	16.8	14.9	1.9	36-N	39-N	93-W	93-W	WSU	376	0
G 447	07/12/78	15.2	15.4	-.2	37-N	38-N	105-W	105-W	WSU	442	7
G 448	07/12/78	15.2	15.3	-.1	37-N	40-N	105-W	108-W	WSU	398	7
G 463	07/21/78	19.2	14.9	4.3	39-N	36-N	93-W	93-W	WSU	309	7
G 449	07/14/78	13.7	13.7	0	47-N	49-N	124-W	125-W	WSU	405	0
G 457	07/12/78	15.2	11.3	3.9	47-N	49-N	121-W	126-W	WSU	354	7
G 471	07/18/78	19.2	11.1	8.1	47-N	50-N	131-W	129-W	WSU	287	0
G 476	07/18/78	16.8	11.4	5.4	60-N	57-N	146-W	143-W	WSU	324	0
G 480	07/15/78	18.3	10.5	7.8	61-N	58-N	150-W	150-W	WSU	258	1410
G 469	07/17/78	12.2	10.5	1.7	65-N	65-N	144-W	144-W	WSU	413	0
G 473	07/17/78	3.1	9.8	-6.7	66-N	66-N	144-W	144-W	WSU	487	7
G 478	07/17/78	6.1	10.4	-4.3	66-N	66-N	145-W	144-W	WSU	457	7
G 482	07/11/78	9.1	9.8	-.7	66-N	66-N	145-W	145-W	WSU	457	14
G 466	07/15/78	12.2	9.8	2.4	71-N	73-N	149-W	149-W	WSU	369	21
G 475	07/16/78	15.2	9.8	5.4	71-N	74-N	149-W	148-W	WSU	339	0
G 474	07/15/78	16.8	9.8	7.0	74-N	71-N	150-W	149-W	WSU	295	7
G 481	07/16/78	19.2	9.8	9.4	75-N	72-N	149-W	150-W	WSU	280	0
G 550	10/19/78	15.2	16.2	-1.0	6-N	3-N	80-W	80-W	WSU	442	7
G 544	10/20/78	13.7	15.5	-1.8	10-N	15-N	80-W	83-W	WSU	457	7
G 552	10/20/78	13.7	15.5	-1.8	11-N	16-N	81-W	83-W	WSU	457	21
G 538	10/18/78	16.8	16.2	.6	12-N	15-N	81-W	83-W	WSU	428	7
G 508	10/16/78	15.2	16.2	-1.0	15-N	12-N	83-W	81-W	WSU	442	7
G 549	10/18/78	19.2	16.2	3.0	15-N	12-N	83-W	82-W	WSU	339	7
G 514	10/20/78	13.7	15.5	-1.8	24-N	25-N	88-W	89-W	WSU	435	0
G 515	10/13/78	18.3	15.5	2.8	24-N	27-N	95-W	95-W	WSU	354	7

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 517	10/16/78	15.2	15.5	-.3	27-N	25-N	92-W	89-W	WSU	442	7
G 504	10/13/78	16.8	15.0	1.8	27-N	24-N	95-W	95-W	WSU	398	7
G 554	10/11/78	3.1	16.2	-13.1	29-N	29-N	95-W	95-W	WSU	509	0
G 555	10/11/78	9.1	16.2	-7.1	29-N	29-N	95-W	94-W	WSU	450	0
G 556	10/11/78	13.7	16.2	-2.5	29-N	29-N	94-W	94-W	WSU	435	28
G 557	10/11/78	15.2	16.2	-1.0	29-N	29-N	94-W	94-W	WSU	428	0
G 503	10/14/78	16.8	12.2	4.6	36-N	39-N	93-W	93-W	WSU	324	0
G 512	10/30/78	15.2	15.1	.1	37-N	39-N	106-W	108-W	WSU	369	7
G 519	10/14/78	19.2	12.1	7.1	39-N	36-N	93-W	93-W	WSU	295	7
G 548	10/31/78	13.7	12.8	.9	47-N	49-N	128-W	129-W	WSU	435	0
G 513	10/30/78	15.2	12.7	2.5	47-N	49-N	121-W	126-W	WSU	413	35
G 526	11/06/78	19.0	12.5	6.5	50-N	47-N	128-W	123-W	WSU	324	21
G 527	11/06/78	16.8	12.5	4.3	52-N	49-N	132-W	129-W	WSU	383	0
G 507	10/31/78	13.7	9.5	4.2	58-N	59-N	141-W	144-W	WSU	369	0
G 536	11/06/78	16.8	8.2	8.6	60-N	58-N	147-W	142-W	WSU	354	7
G 518	11/02/78	3.1	9.1	-6.0	61-N	61-N	158-W	158-W	WSU	509	0
G 539	11/02/78	6.1	9.1	-3.0	61-N	61-N	157-W	157-W	WSU	531	7
G 531	11/02/78	9.1	9.1	0	61-N	60-N	157-W	156-W	WSU	420	0
G 546	11/02/78	12.2	9.1	3.1	61-N	61-N	159-W	157-W	WSU	435	0
G 525	11/01/78	19.2	9.1	10.1	61-N	58-N	150-W	149-W	WSU	250	7
G 528	11/01/78	12.2	10.1	2.1	71-N	74-N	150-W	150-W	WSU	398	7
G 545	11/05/78	15.2	9.1	6.1	71-N	71-N	150-W	150-W	WSU	354	7
G 520	11/01/78	16.8	10.1	6.7	75-N	72-N	151-W	151-W	WSU	309	0
G 523	11/05/78	18.8	9.1	9.7	75-N	72-N	151-W	151-W	WSU	236	0
G 591	04/11/79	16.8	16.5	.3	2-N	6-N	80-W	80-W	WSU	380	10
G 511	04/11/79	19.2	16.8	2.4	2-N	6-N	80-W	80-W	OGC	380	0
G 583	04/12/79	3.1	16.2	-13.1	6-N	6-N	81-W	81-W	WSU	390	0
G 589	04/12/79	6.1	16.2	-10.1	6-N	6-N	81-W	81-W	WSU	420	20
G 587	04/12/79	9.1	16.2	-7.1	6-N	6-N	81-W	81-W	WSU	410	10
G 586	04/12/79	12.2	16.2	-4.0	6-N	6-N	81-W	81-W	WSU	420	0
G 581	04/11/79	15.2	16.8	-1.6	6-N	3-N	80-W	80-W	WSU	390	10
G 537	04/11/79	18.3	16.8	1.5	6-N	2-N	80-W	80-W	WSU	400	0
G 590	04/13/79	13.7	17.1	-3.4	7-N	9-N	80-W	80-W	WSU	410	10
G 579	04/13/79	13.7	17.1	-3.4	12-N	15-N	81-W	83-W	WSU	410	10
G 584	04/10/79	16.8	16.5	.3	12-N	15-N	79-W	79-W	WSU	380	10
G 595	04/09/79	15.2	16.2	-1.0	15-N	12-N	83-W	82-W	WSU	410	10
G 580	04/10/79	19.2	16.5	2.7	15-N	12-N	79-W	79-W	OGC	320	0
G 578	04/13/79	13.7	14.2	-.5	24-N	26-N	88-W	90-W	OGC	420	0
G 606	04/18/79	18.3	12.1	6.2	24-N	27-N	93-W	94-W	WSU	350	10
G 598	04/18/79	19.2	12.1	7.1	24-N	27-N	94-W	94-W	WSU	310	10
G 594	04/09/79	15.2	16.3	-1.1	27-N	25-N	92-W	89-W	WSU	390	0
G 543	04/05/79	3.1	15.6	-12.5	29-N	30-N	95-W	94-W	WSU	440	0
G 540	04/05/79	9.1	15.6	-6.5	29-N	29-N	94-W	94-W	WSU	400	0

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 509	04/05/79	13.7	15.6	-1.9	29-N	29-N	94-W	94-W	OGC	400	20
G 516	04/05/79	15.2	16.8	-1.6	29-N	29-N	94-W	94-W	WSU	380	10
G 560	04/25/79	13.7	12.3	1.4	36-N	33-N	103-W	99-W	WSU	320	0
G 521	04/06/79	16.8	12.6	4.2	36-N	39-N	93-W	93-W	OGC	330	0
G 582	04/10/79	15.2	12.9	2.3	37-N	40-N	107-W	111-W	OGC	390	10
G 562	04/25/79	13.7	12.6	1.1	39-N	36-N	107-W	103-W	WSU	310	20
G 532	04/06/79	19.2	12.6	6.6	39-N	36-N	93-W	93-W	OGC	260	10
G 561	04/25/79	13.7	12.5	1.2	42-N	40-N	112-W	108-W	WSU	370	10
G 566	04/25/79	13.7	11.3	2.4	45-N	42-N	118-W	112-W	WSU	350	0
G 609	04/20/79	13.7	9.7	4.0	47-N	52-N	124-W	132-W	WSU	350	0
G 577	04/19/79	15.2	9.7	5.5	47-N	50-N	122-W	128-W	WSU	330	10
G 605	04/19/79	15.2	9.7	5.5	47-N	48-N	122-W	125-W	WSU	330	0
G 567	04/24/79	19.2	10.7	8.5	47-N	50-N	126-W	128-W	OGC	260	0
G 565	04/24/79	16.8	11.2	5.6	52-N	49-N	131-W	127-W	WSU	340	10
G 585	04/20/79	13.7	12.5	1.2	57-N	59-N	140-W	144-W	WSU	330	0
G 568	04/24/79	16.8	12.1	4.7	60-N	57-N	143-W	136-W	OGC	320	10
G 572	04/22/79	19.2	11.8	7.4	61-N	58-N	150-W	150-W	WSU	260	10
G 574	04/21/79	3.1	12.2	-9.1	62-N	62-N	146-W	146-W	WSU	430	0
G 571	04/21/79	6.1	11.6	-5.5	62-N	62-N	145-W	145-W	WSU	430	10
G 524	04/21/79	10.7	12.6	-1.9	62-N	62-N	145-W	145-W	WSU	400	0
G 569	04/21/79	12.2	12.6	-4	63-N	62-N	145-W	145-W	WSU	410	10
G 573	04/23/79	15.2	9.7	5.5	71-N	75-N	148-W	147-W	WSU	270	0
G 570	04/24/79	16.8	9.7	7.1	75-N	71-N	147-W	148-W	OGC	260	0
G 576	04/23/79	18.6	9.7	8.9	75-N	71-N	149-W	148-W	OGC	270	10
G 612	08/01/79	18.3	15.5	2.8	24-N	27-N	88-W	91-W	WSU	320	52
G 611	08/01/79	13.7	15.5	-1.8	27-N	24-N	91-W	87-W	WSU	440	15
G 588	07/16/79	15.2	15.6	-4	28-N	29-N	94-W	95-W	WSU	350	7
G 602	07/06/79	15.2	15.2	0	28-N	26-N	93-W	90-W	WSU	370	44
G 600	07/16/79	3.1	15.6	-12.5	29-N	29-N	95-W	95-W	WSU	430	70
G 607	07/16/79	9.1	15.6	-6.5	29-N	29-N	94-W	94-W	WSU	360	0
G 593	07/16/79	13.7	15.6	-1.9	29-N	29-N	94-W	95-W	WSU	390	44
G 603	07/16/79	16.8	15.6	1.2	29-N	29-N	94-W	94-W	WSU	419	52
G 627	07/24/79	13.7	14.6	-9	36-N	33-N	103-W	100-W	WSU	460	7
G 597	07/03/79	16.8	15.5	1.3	36-N	39-N	96-W	94-W	WSU	320	15
G 610	07/18/79	15.2	15.9	-7	37-N	39-N	104-W	108-W	WSU	380	37
G 626	07/24/79	13.7	14.7	-1.0	38-N	36-N	105-W	103-W	WSU	410	30
G 608	07/03/79	19.2	15.8	3.4	39-N	36-N	96-W	97-W	WSU	270	7
G 625	07/24/79	13.7	14.9	-1.2	42-N	39-N	112-W	108-W	WSU	469	7
G 624	07/24/79	13.7	13.2	.5	45-N	42-N	118-W	112-W	WSU	360	52
G 601	07/19/79	13.7	12.0	1.7	47-N	49-N	124-W	126-W	OGC	400	10
G 623	07/23/79	19.2	11.3	7.9	50-N	47-N	125-W	124-W	WSU	300	0
G 622	07/23/79	16.8	11.3	5.5	52-N	48-N	130-W	125-W	WSU	260	30
G 575	07/19/79	13.7	10.5	3.2	57-N	60-N	140-W	147-W	WSU	320	15

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 621	07/23/79	16.8	11.3	5.5	60-N	58-N	143-W	137-W	WSU	370	44
G 615	07/22/79	19.2	10.3	8.9	61-N	58-N	150-W	157-W	WSU	290	22
G 618	07/20/79	3.1	10.3	-7.2	62-N	62-N	151-W	152-W	WSU	630	15
G 619	07/20/79	6.1	10.3	-4.2	62-N	63-N	151-W	152-W	WSU	570	15
G 599	07/20/79	9.1	10.1	-1.0	63-N	64-N	152-W	152-W	WSU	510	100
G 620	07/20/79	12.2	10.3	1.9	63-N	62-N	152-W	151-W	WSU	370	2
G 613	07/22/79	12.2	10.4	1.8	70-N	74-N	148-W	148-W	WSU	410	100
G 616	07/21/79	15.2	11.9	3.3	71-N	75-N	149-W	148-W	WSU	380	7
G 614	07/22/79	16.8	10.4	6.4	75-N	71-N	149-W	149-W	WSU	320	30
G 617	07/21/79	18.3	11.9	6.4	75-N	71-N	148-W	149-W	WSU	220	7
G 696	11/12/79	16.8	16.6	.2	2-N	6-N	80-W	80-W	WSU	460	66
G 690	11/12/79	19.2	16.6	2.6	2-N	6-N	80-W	80-W	WSU	400	30
G 699	11/12/79	15.2	16.6	-1.4	6-N	3-N	79-W	80-W	WSU	469	7
G 705	11/18/79	13.8	17.1	-3.3	7-N	10-N	80-W	81-W	WSU	480	15
G 697	11/10/79	9.1	16.6	-7.5	8-N	8-N	78-W	79-W	WSU	370	30
G 698	11/10/79	12.2	16.6	-4.4	8-N	9-N	78-W	79-W	WSU	440	7
G 694	11/09/79	3.1	16.6	-13.5	9-N	8-N	79-W	79-W	WSU	400	7
G 695	11/09/79	6.1	16.6	-10.5	9-N	9-N	79-W	80-W	WSU	550	15
G 692	11/09/79	9.1	16.6	-7.5	9-N	9-N	79-W	79-W	WSU	590	30
G 707	11/18/79	13.7	16.2	-2.5	10-N	13-N	81-W	82-W	WSU	410	15
G 701	11/14/79	16.8	16.3	.5	12-N	15-N	79-W	79-W	WSU	440	37
G 693	11/07/79	15.2	16.2	-1.0	15-N	12-N	83-W	82-W	WSU	550	7
G 706	11/18/79	13.7	15.1	-1.4	24-N	26-N	88-W	90-W	WSU	430	7
G 688	11/06/79	18.0	17.4	.6	24-N	27-N	94-W	94-W	WSU	430	22
G 689	11/06/79	19.0	17.4	1.6	24-N	27-N	94-W	94-W	WSU	400	7
G 691	11/07/79	15.2	14.6	.6	27-N	25-N	92-W	89-W	WSU	430	7
G 687	11/06/79	16.8	17.4	-.6	27-N	24-N	94-W	94-W	WSU	530	22
G 663	10/10/79	3.1	15.3	-12.2	28-N	28-N	96-W	96-W	WSU	469	44
G 664	10/10/79	9.1	15.3	-6.2	28-N	28-N	95-W	95-W	WSU	400	7
G 666	10/10/79	15.2	15.3	-.1	28-N	29-N	96-W	95-W	WSU	390	22
G 665	10/10/79	13.7	15.3	-1.6	29-N	28-N	95-W	96-W	WSU	520	52
G 681	10/22/79	13.7	13.7	0	36-N	33-N	103-W	99-W	WSU	440	37
G 667	10/11/79	16.8	14.4	2.4	36-N	39-N	93-W	93-W	WSU	520	66
G 676	10/22/79	13.7	12.3	1.4	39-N	37-N	107-W	104-W	WSU	469	15
G 668	10/11/79	19.2	14.4	4.8	39-N	36-N	93-W	93-W	WSU	410	100
G 685	10/22/79	13.7	13.7	0	45-N	44-N	118-W	115-W	WSU	410	22
G 671	10/16/79	13.7	10.3	3.4	47-N	49-N	124-W	126-W	WSU	460	44
G 670	10/15/79	15.1	10.9	4.2	47-N	49-N	121-W	125-W	WSU	400	30
G 684	10/21/79	13.7	10.0	3.7	52-N	50-N	131-W	128-W	WSU	460	52
G 672	10/16/79	13.7	10.8	2.9	57-N	59-N	139-W	143-W	WSU	360	70
G 683	10/21/79	13.7	10.0	3.7	60-N	58-N	147-W	142-W	WSU	410	7
G 675	10/17/79	18.6	10.0	8.6	61-N	58-N	150-W	151-W	WSU	240	37
G 673	10/17/79	12.2	10.3	1.9	71-N	74-N	148-W	147-W	WSU	380	15

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 677	10/18/79	15.2	10.3	4.9	71-N	74-N	150-W	149-W	WSU	350	0
G 674	10/17/79	17.0	10.3	6.7	75-N	71-N	148-W	147-W	WSU	270	0
G 678	10/18/79	18.3	10.3	8.0	75-N	71-N	150-W	150-W	WSU	270	7
G 895	07/31/80	18.3	16.5	1.8	2-N	6-N	80-W	80-W	OGC	450	0
G 889	07/31/80	16.0	16.5	-5	6-N	2-N	80-W	80-W	OGC	480	10
G 863	07/29/80	9.2	16.5	-7.3	7-N	7-N	79-W	79-W	OGC	490	10
G 899	08/01/80	15.3	16.5	-1.2	7-N	10-N	80-W	81-W	OGC	480	10
G 892	07/29/80	6.1	16.5	-10.4	8-N	8-N	79-W	79-W	OGC	500	0
G 888	07/29/80	12.2	16.5	-4.3	8-N	7-N	79-W	79-W	OGC	500	10
G 866	07/29/80	3.1	16.5	-13.4	9-N	9-N	79-W	79-W	OGC	500	0
G 896	08/01/80	15.3	16.5	-1.2	12-N	15-N	82-W	83-W	OGC	530	60
G 897	07/30/80	16.8	16.5	.3	12-N	15-N	79-W	79-W	OGC	480	10
G 851	07/28/80	15.3	16.5	-1.2	15-N	12-N	83-W	81-W	OGC	470	10
G 886	07/30/80	19.2	16.5	2.7	15-N	12-N	79-W	79-W	OGC	410	10
G 900	08/01/80	19.2	15.0	4.2	24-N	27-N	88-W	92-W	OGC	400	10
G 861	07/25/80	18.9	15.1	3.8	25-N	28-N	94-W	94-W	OGC	340	10
G 854	07/28/80	15.3	15.0	.3	27-N	25-N	92-W	89-W	OGC	460	0
G 855	07/25/80	16.7	15.0	1.7	27-N	24-N	94-W	94-W	OGC	450	0
G 853	07/25/80	18.1	15.0	3.1	27-N	24-N	94-W	94-W	OGC	440	10
G 865	07/23/80	3.1	15.5	-12.4	29-N	30-N	95-W	94-W	OGC	570	10
G 868	07/23/80	9.2	15.5	-6.3	29-N	30-N	94-W	94-W	OGC	550	0
G 860	07/23/80	13.7	14.0	-.3	29-N	29-N	95-W	94-W	OGC	500	10
G 850	08/05/80	15.3	13.7	1.6	37-N	39-N	105-W	108-W	OGC	400	20
G 857	08/05/80	15.3	10.1	5.2	45-N	47-N	116-W	120-W	OGC	440	10
G 875	08/11/80	19.2	10.4	8.8	50-N	47-N	128-W	125-W	OGC	310	10
G 880	08/10/80	15.3	10.7	4.6	51-N	48-N	152-W	152-W	OGC	450	10
G 869	08/11/80	16.8	10.4	6.4	52-N	48-N	138-W	135-W	OGC	410	0
G 874	08/10/80	19.1	10.4	8.7	55-N	58-N	152-W	152-W	OGC	300	0
G 867	08/06/80	13.7	11.0	2.7	57-N	59-N	140-W	145-W	OGC	470	10
G 873	08/10/80	15.3	10.4	4.9	58-N	55-N	152-W	152-W	OGC	420	20
G 882	08/11/80	16.8	11.3	5.5	60-N	57-N	146-W	142-W	OGC	400	10
G 881	08/07/80	12.2	9.8	2.4	71-N	75-N	148-W	148-W	OGC	360	10
G 871	08/09/80	15.3	10.1	5.2	71-N	75-N	148-W	148-W	OGC	400	0
G 876	08/09/80	18.2	10.1	8.1	75-N	71-N	148-W	148-W	OGC	320	0
G 914	10/25/80	15.3	17.0	-1.7	0-S	3-S	80-W	80-W	OGC	470	0
G 924	10/24/80	19.2	16.2	3.0	3-N	6-N	80-W	80-W	OGC	420	0
G 913	10/25/80	18.3	17.0	1.3	3-S	0-S	80-W	80-W	OGC	460	0
G 952	10/24/80	19.2	16.8	2.4	3-S	0-S	80-W	80-W	OGC	460	0
G 936	10/17/80	12.2	16.5	-4.3	6-N	7-N	81-W	80-W	OGC	500	10
G 906	10/18/80	16.8	17.0	-.2	6-N	3-N	79-W	80-W	OGC	490	10
G 928	10/24/80	16.8	17.2	-.4	6-S	3-S	79-W	80-W	OGC	480	10
G 907	10/25/80	18.3	17.4	.9	6-S	3-S	79-W	80-W	OGC	440	10
G 912	10/18/80	19.2	17.0	2.2	6-S	9-S	79-W	78-W	OGC	410	0

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 911	10/26/80	15.3	17.1	-1.8	9-N	12-N	81-W	82-W	OGC	480	10
G 943	10/17/80	18.3	16.5	1.8	10-N	7-N	81-W	81-W	OGC	410	10
G 910	10/18/80	19.5	17.0	2.5	12-S	15-S	77-W	77-W	OGC	370	10
G 933	10/24/80	9.2	17.4	-8.2	13-S	15-S	77-W	77-W	OGC	470	0
G 903	10/26/80	15.3	16.5	-1.2	16-N	19-N	82-W	82-W	OGC	510	10
G 902	10/19/80	13.7	17.4	-3.7	18-S	22-S	75-W	74-W	OGC	480	10
G 922	10/26/80	15.3	16.3	-1.0	19-N	22-N	85-W	86-W	OGC	370	0
G 947	10/17/80	18.3	16.5	1.8	19-N	16-N	84-W	83-W	OGC	440	0
G 937	10/16/80	18.9	16.1	2.8	19-N	22-N	94-W	94-W	OGC	400	0
G 946	10/17/80	15.3	16.5	-1.2	21-N	19-N	86-W	85-W	OGC	490	10
G 935	10/16/80	16.7	16.1	.6	22-N	19-N	95-W	95-W	OGC	470	10
G 901	10/26/80	18.3	15.7	2.6	24-N	27-N	87-W	92-W	OGC	420	0
G 942	10/16/80	19.0	15.9	3.1	24-N	27-N	94-W	94-W	OGC	430	0
G 909	10/19/80	16.8	17.4	-.6	24-S	27-S	73-W	73-W	OGC	460	10
G 923	10/23/80	19.7	15.6	4.1	24-S	21-S	73-W	74-W	OGC	410	0
G 932	10/15/80	16.8	15.6	1.2	27-N	30-N	93-W	93-W	OGC	420	0
G 921	10/16/80	16.8	15.9	.9	27-N	24-N	95-W	95-W	OGC	470	0
G 939	10/15/80	19.2	15.9	3.3	27-N	30-N	93-W	93-W	OGC	390	10
G 950	10/15/80	9.2	15.5	-6.3	30-N	27-N	93-W	93-W	OGC	500	0
G 931	10/15/80	18.3	15.6	2.7	30-N	27-N	93-W	93-W	OGC	410	10
G 905	10/19/80	16.8	11.9	4.9	30-S	33-S	67-W	61-W	OGC	420	0
G 940	10/23/80	15.4	11.2	4.2	32-S	31-S	63-W	65-W	OGC	420	0
G 938	10/23/80	13.9	11.1	2.8	33-S	33-S	59-W	61-W	OGC	510	0
G 904	10/19/80	9.5	11.9	-2.4	34-S	35-S	60-W	57-W	OGC	510	0
G 929	10/23/80	12.3	11.1	1.2	34-S	33-S	58-W	59-W	OGC	470	0
G 941	10/20/80	10.7	11.0	-.3	36-S	39-S	57-W	58-W	OGC	460	0
G 927	10/21/80	15.3	8.8	6.5	39-S	42-S	58-W	59-W	OGC	420	0
G 949	10/20/80	13.7	9.5	4.2	42-S	39-S	59-W	58-W	OGC	480	0
G 951	10/21/80	18.3	8.8	9.5	42-S	39-S	59-W	58-W	OGC	360	0
G 945	10/20/80	10.8	9.6	1.2	46-S	48-S	59-W	59-W	OGC	490	10
G 934	10/21/80	15.3	9.9	5.4	48-S	51-S	58-W	58-W	OGC	410	10
G 944	10/21/80	16.8	9.9	6.9	51-S	48-S	58-W	58-W	OGC	270	0
G 997	04/28/81	15.2	16.6	-1.4	19-N	23-N	94-W	94-W	OGC	530	0
G 994	04/28/81	13.7	16.6	-2.9	22-N	19-N	94-W	94-W	OGC	560	10
G 971	04/09/81	18.3	15.7	2.6	24-N	27-N	94-W	94-W	OGC	490	0
G 972	04/09/81	19.2	15.7	3.5	24-N	27-N	94-W	94-W	OGC	470	10
G 995	04/28/81	15.2	15.5	-.3	25-N	28-N	94-W	94-W	OGC	540	0
G 973	04/09/81	16.8	15.7	1.1	27-N	24-N	94-W	94-W	OGC	520	10
G 996	04/28/81	13.7	15.5	-1.8	28-N	25-N	94-W	94-W	OGC	560	10
G 990	04/27/81	13.7	12.9	.8	36-N	37-N	103-W	103-W	OGC	510	0
G 974	04/21/81	15.2	13.4	1.8	37-N	34-N	105-W	107-W	OGC	470	0
G 991	04/27/81	13.7	12.8	.9	39-N	36-N	107-W	103-W	OGC	490	20
G 975	04/21/81	15.2	12.3	2.9	39-N	40-N	107-W	108-W	OGC	460	0

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 992	04/27/81	13.7	11.7	2.0	42-N	39-N	112-W	107-W	OGC	500	0
G 993	04/27/81	13.7	10.8	2.9	45-N	42-N	117-W	112-W	OGC	430	10
G 977	04/22/81	13.7	12.8	.9	47-N	50-N	124-W	128-W	OGC	500	0
G 976	04/21/81	15.2	11.7	3.5	47-N	50-N	121-W	127-W	OGC	450	10
G 986	04/25/81	6.1	9.0	-2.9	63-N	62-N	155-W	156-W	OGC	610	0
G 983	04/25/81	9.1	9.0	.1	63-N	63-N	156-W	156-W	OGC	530	0
G 981	04/25/81	12.2	8.8	3.4	63-N	63-N	155-W	156-W	OGC	450	10
G 980	04/23/81	16.8	8.6	8.2	75-N	71-N	151-W	149-W	OGC	370	10
G 982	04/24/81	19.2	8.1	11.1	75-N	76-N	148-W	148-W	OGC	290	10
22056	07/24/81	19.2	14.5	4.7	1-N	3-N	80-W	80-W	OGC	530	0
22052	07/23/81	9.1	15.2	-6.1	7-N	7-N	80-W	80-W	OGC	530	10
22053	07/23/81	12.2	15.2	-3.0	7-N	7-N	80-W	80-W	OGC	520	10
22044	07/21/81	16.8	15.1	1.7	7-N	8-N	80-W	80-W	OGC	650	10
22051	07/23/81	3.1	15.2	-12.1	9-N	8-N	79-W	79-W	OGC	540	0
22057	07/25/81	13.7	14.7	-1.0	10-N	13-N	81-W	82-W	OGC	500	20
22043	07/20/81	15.2	15.5	-.3	10-N	7-N	80-W	79-W	OGC	680	0
22045	07/21/81	16.8	15.1	1.7	13-N	14-N	79-W	79-W	OGC	650	10
22058	07/25/81	13.7	14.6	-.9	16-N	19-N	83-W	85-W	OGC	460	10
22046	07/21/81	16.8	15.2	1.6	16-N	17-N	79-W	79-W	OGC	650	0
22048	07/21/81	19.2	15.1	4.1	16-N	13-N	79-W	80-W	OGC	570	10
22042	07/20/81	15.2	15.4	-.2	19-N	16-N	85-W	83-W	OGC	680	0
G 1036	07/28/81	19.2	15.2	4.0	19-N	22-N	94-W	94-W	OGC	480	10
22047	07/21/81	19.2	15.4	3.8	19-N	16-N	79-W	80-W	OGC	580	20
G 1037	07/28/81	16.8	15.2	1.6	22-N	19-N	94-W	94-W	OGC	520	10
G 1038	07/28/81	19.2	16.3	2.9	25-N	28-N	94-W	94-W	OGC	440	20
G 1035	07/28/81	16.8	16.3	.5	28-N	25-N	94-W	94-W	OGC	490	0
G 1042	07/29/81	19.2	13.9	5.3	32-N	30-N	94-W	94-W	OGC	420	0
G 1040	07/29/81	19.2	15.2	4.0	37-N	33-N	94-W	94-W	OGC	410	0
G 1039	07/29/81	16.8	13.6	3.2	38-N	42-N	93-W	93-W	OGC	480	0
22017	07/14/81	13.7	15.2	-1.5	39-N	36-N	101-W	100-W	OGC	560	10
22016	07/14/81	13.7	14.9	-1.2	41-N	39-N	104-W	101-W	OGC	560	20
22015	07/14/81	13.7	15.0	-1.3	45-N	41-N	115-W	108-W	OGC	530	0
22036	07/09/81	13.7	11.0	2.7	45-N	48-N	124-W	125-W	OGC	470	10
22034	07/08/81	15.2	11.3	3.9	45-N	48-N	117-W	124-W	OGC	530	0
G 1041	07/29/81	18.9	14.6	4.3	45-N	41-N	93-W	93-W	OGC	370	20
22035	07/08/81	15.2	11.3	3.9	48-N	50-N	124-W	128-W	OGC	530	20
22037	07/09/81	13.7	10.3	3.4	51-N	51-N	130-W	130-W	OGC	560	0
22038	07/09/81	13.7	11.4	2.3	57-N	58-N	140-W	141-W	OGC	560	0
22039	07/09/81	13.7	11.9	1.8	58-N	59-N	141-W	142-W	OGC	560	10
22022	07/12/81	3.1	10.1	-7.0	61-N	61-N	150-W	150-W	OGC	620	10
G 1031	07/11/81	15.2	9.7	5.5	62-N	66-N	150-W	148-W	OGC	450	20
G 1034	07/11/81	18.9	9.7	9.2	66-N	64-N	149-W	149-W	OGC	340	0
G 1033	07/11/81	15.2	9.0	6.2	71-N	74-N	149-W	148-W	OGC	460	10

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 1032	07/11/81	18.3	9.0	9.3	74-N	70-N	149-W	148-W	OGC	360	10
23001	10/14/81	3.1	15.8	-12.7	29-N	29-N	94-W	94-W	OGC	580	0
23002	10/14/81	9.1	15.8	-6.7	29-N	29-N	94-W	94-W	OGC	590	10
23003	10/14/81	12.2	15.8	-3.6	29-N	29-N	94-W	94-W	OGC	600	0
23004	10/14/81	16.8	15.8	1.0	29-N	29-N	94-W	94-W	OGC	560	10
23005	10/14/81	19.2	15.8	3.4	29-N	29-N	94-W	94-W	OGC	470	10
23006	10/15/81	16.8	13.6	3.2	34-N	35-N	93-W	93-W	OGC	550	10
23049	10/21/81	13.7	16.2	-2.5	36-N	35-N	103-W	102-W	OGC	560	10
23009	10/15/81	19.2	14.9	4.3	37-N	36-N	93-W	93-W	OGC	430	10
23048	10/21/81	13.7	11.5	2.2	39-N	38-N	108-W	107-W	OGC	560	0
23008	10/15/81	19.2	12.6	6.6	41-N	40-N	93-W	93-W	OGC	420	10
23047	10/21/81	13.7	11.4	2.3	42-N	41-N	118-W	111-W	OGC	540	0
23007	10/15/81	16.8	11.6	5.2	42-N	43-N	94-W	94-W	OGC	530	10
23046	10/21/81	13.7	11.3	2.4	44-N	44-N	115-W	115-W	OGC	560	10
23022	10/16/81	15.2	12.0	3.2	48-N	50-N	123-W	128-W	OGC	570	20
23043	10/21/81	16.8	12.7	4.1	48-N	48-N	125-W	125-W	OGC	400	0
23042	10/21/81	16.8	12.4	4.4	51-N	48-N	137-W	135-W	OGC	520	10
23041	10/21/81	16.8	12.4	4.4	54-N	52-N	141-W	138-W	OGC	490	10
23034	10/20/81	16.8	11.8	5.0	59-N	59-N	152-W	152-W	OGC	430	10
23035	10/20/81	16.8	11.8	5.0	60-N	62-N	151-W	149-W	OGC	470	10
23033	10/20/81	13.7	11.8	1.9	62-N	60-N	149-W	151-W	OGC	520	10
23036	10/20/81	19.2	11.8	7.4	63-N	61-N	148-W	151-W	OGC	360	0
23026	10/18/81	16.8	9.0	7.8	75-N	71-N	149-W	149-W	OGC	440	10
23029	10/19/81	19.2	9.0	10.2	75-N	71-N	150-W	150-W	OGC	330	0
24034	04/21/82	18.3	17.2	1.1	1-N	1-N	80-W	80-W	OGC	570	10
24033	04/21/82	15.2	17.2	-2.0	3-N	3-N	80-W	80-W	OGC	590	0
24035	04/21/82	19.2	17.2	2.0	6-N	6-N	79-W	79-W	OGC	550	10
24037	04/22/82	6.1	17.2	-11.1	10-N	11-N	79-W	79-W	OGC	610	10
24038	04/22/82	12.2	17.1	-4.9	10-N	13-N	79-W	79-W	OGC	600	10
24039	04/22/82	19.2	17.1	2.1	12-N	9-N	80-W	80-W	OGC	550	10
24019	04/19/82	13.7	16.0	-2.3	13-N	13-N	82-W	82-W	OGC	600	10
24032	04/20/82	19.2	17.1	2.1	13-N	10-N	79-W	80-W	OGC	530	0
24018	04/19/82	13.7	16.0	-2.3	19-N	16-N	85-W	83-W	OGC	590	10
24021	04/23/82	15.2	17.2	-2.0	19-N	19-N	85-W	85-W	OGC	600	10
24031	04/20/82	19.2	16.9	2.3	19-N	17-N	79-W	79-W	OGC	450	0
24017	04/16/82	18.8	16.0	2.8	22-N	23-N	95-W	95-W	OGC	500	10
24015	04/16/82	16.8	16.0	.8	25-N	25-N	95-W	95-W	OGC	540	0
24011	04/15/82	6.1	14.7	-8.6	29-N	29-N	95-W	95-W	OGC	590	10
24012	04/15/82	12.2	14.7	-2.5	29-N	29-N	95-W	95-W	OGC	590	0
24013	04/15/82	16.8	14.7	2.1	29-N	29-N	94-W	95-W	OGC	520	10
24014	04/15/82	19.2	14.7	4.5	29-N	28-N	94-W	96-W	OGC	390	10
24022	04/27/82	15.2	13.1	2.1	36-N	36-N	104-W	104-W	OGC	490	10
24055	05/07/82	15.2	11.0	4.2	39-N	39-N	108-W	108-W	OGC	530	10

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
24054	05/05/82	13.7	10.7	3.0	41-N	41-N	111-W	110-W	OGC	530	10
24059	05/07/82	19.2	10.7	8.5	41-N	41-N	109-W	109-W	OGC	420	10
24053	05/05/82	13.7	10.7	3.0	42-N	41-N	112-W	111-W	OGC	590	10
24056	05/07/82	16.8	10.4	6.4	43-N	43-N	108-W	108-W	OGC	420	0
24057	05/07/82	16.8	10.4	6.4	44-N	44-N	108-W	108-W	OGC	390	20
24023	04/27/82	15.2	12.4	2.8	45-N	45-N	118-W	118-W	OGC	510	10
24058	05/07/82	18.3	10.6	7.7	45-N	45-N	109-W	109-W	OGC	440	10
24052	05/04/82	19.2	11.6	7.6	47-N	50-N	131-W	130-W	OGC	410	10
24025	04/29/82	13.7	10.7	3.0	48-N	51-N	125-W	130-W	OGC	510	0
24026	04/28/82	13.7	8.8	4.9	54-N	57-N	135-W	139-W	OGC	430	10
24051	05/04/82	16.8	11.2	5.6	54-N	51-N	139-W	137-W	OGC	450	10
24047	05/03/82	10.7	8.9	1.8	62-N	62-N	149-W	149-W	OGC	390	10
24041	05/02/82	12.2	8.9	3.3	65-N	68-N	149-W	148-W	OGC	510	0
24042	05/02/82	12.2	9.5	2.7	71-N	75-N	149-W	148-W	OGC	480	0
24027	05/01/82	15.2	10.0	5.2	71-N	71-N	148-W	148-W	OGC	350	10
24043	05/02/82	16.8	9.5	7.3	75-N	71-N	149-W	148-W	OGC	320	10
24028	05/01/82	18.7	9.8	8.9	75-N	75-N	148-W	148-W	OGC	360	0
25025	07/23/82	13.7	15.3	-1.6	8-N	8-N	80-W	80-W	OGC	630	0
25026	07/23/82	13.7	15.3	-1.6	10-N	10-N	80-W	80-W	OGC	640	10
25018	07/20/82	16.8	15.2	1.6	10-N	10-N	79-W	79-W	OGC	570	10
25028	07/23/82	13.7	14.7	-1.0	16-N	19-N	83-W	83-W	OGC	650	10
25017	07/19/82	15.2	14.4	.8	22-N	22-N	88-W	88-W	OGC	560	10
25015	07/16/82	16.8	15.5	1.3	22-N	19-N	94-W	94-W	OGC	600	0
25011	07/15/82	12.2	15.0	-2.8	30-N	30-N	95-W	95-W	OGC	670	20
25012	07/15/82	13.7	15.0	-1.3	30-N	30-N	95-W	95-W	OGC	630	0
25013	07/15/82	16.8	15.0	1.8	30-N	30-N	95-W	95-W	OGC	540	10
25059	08/03/82	19.3	15.0	4.3	33-N	33-N	93-W	93-W	OGC	490	10
25056	08/02/82	13.7	11.8	1.9	42-N	42-N	112-W	112-W	OGC	640	10
25031	07/27/82	15.2	15.1	.1	42-N	42-N	111-W	111-W	OGC	580	10
25058	08/03/82	19.3	11.2	8.1	45-N	45-N	93-W	93-W	OGC	430	0
25055	08/01/82	18.8	10.4	8.4	47-N	48-N	131-W	131-W	OGC	420	10
25054	08/01/82	16.8	10.4	6.4	48-N	48-N	135-W	135-W	OGC	540	0
25053	08/01/82	16.8	10.6	6.2	53-N	52-N	138-W	138-W	OGC	530	10
25033	07/28/82	13.7	11.8	1.9	54-N	54-N	135-W	135-W	OGC	550	0
25041	07/30/82	15.2	11.3	3.9	58-N	59-N	151-W	151-W	OGC	540	0
25045	07/31/82	6.1	11.3	-5.2	60-N	60-N	151-W	151-W	OGC	700	10
25051	08/01/82	16.8	10.2	6.6	60-N	59-N	146-W	146-W	OGC	510	0
25039	07/29/82	18.6	12.1	6.5	61-N	60-N	150-W	150-W	OGC	390	0
25035	07/29/82	12.2	10.9	1.3	71-N	71-N	148-W	148-W	OGC	540	10
25042	07/30/82	15.2	10.1	5.1	71-N	72-N	144-W	144-W	OGC	510	20
25038	07/29/82	16.8	10.9	5.9	71-N	69-N	150-W	150-W	OGC	470	10
25036	07/29/82	12.2	10.9	1.3	72-N	72-N	148-W	148-W	OGC	560	10
25037	07/29/82	16.8	10.7	6.1	75-N	74-N	150-W	150-W	OGC	460	10

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
25043	07/30/82	18.3	9.8	8.5	75-N	74-N	148-W	148-W	OGC	400	10
26058	10/29/82	18.3	17.2	1.1	0	0	79-W	79-W	OGC	610	0
26054	10/27/82	19.9	16.2	3.7	0	0	79-W	79-W	OGC	550	0
26051	10/27/82	16.8	16.2	.6	3-N	3-N	79-W	79-W	OGC	620	10
26055	10/29/82	15.2	17.2	-2.0	3-S	3-S	79-W	79-W	OGC	640	10
26037	10/26/82	16.8	15.6	1.2	7-N	7-N	79-W	79-W	OGC	620	0
26056	10/29/82	15.2	17.2	-2.0	7-S	7-S	78-W	78-W	OGC	630	10
26052	10/27/82	16.8	16.2	.6	7-S	7-S	78-W	78-W	OGC	620	10
26038	10/26/82	19.2	15.6	3.6	10-N	10-N	79-W	79-W	OGC	560	0
26057	10/29/82	18.3	17.4	.9	10-S	10-S	77-W	77-W	OGC	570	0
26053	10/27/82	19.2	16.2	3.0	10-S	10-S	77-W	77-W	OGC	540	10
26059	10/30/82	13.7	16.8	-3.1	13-N	13-N	82-W	82-W	OGC	640	0
26033	10/22/82	18.7	16.0	2.7	19-N	19-N	93-W	93-W	OGC	500	20
26032	10/22/82	16.8	15.5	1.3	22-N	22-N	93-W	93-W	OGC	610	10
26013	10/13/82	15.2	15.5	-.3	27-N	27-N	96-W	96-W	OGC	630	10
26031	10/22/82	16.5	14.6	1.9	27-N	27-N	93-W	93-W	OGC	600	10
26015	10/13/82	19.2	15.7	3.5	27-N	27-N	96-W	96-W	OGC	450	10
26011	10/13/82	6.1	15.7	-9.6	29-N	29-N	93-W	93-W	OGC	690	0
26012	10/13/82	12.5	15.7	-3.2	29-N	29-N	91-W	91-W	OGC	640	10
26014	10/13/82	16.8	15.7	1.1	29-N	29-N	93-W	93-W	OGC	600	10
26016	10/14/82	16.8	11.5	5.3	34-N	38-N	92-W	93-W	OGC	600	10
26021	10/15/82	15.2	13.2	2.0	36-N	36-N	104-W	104-W	OGC	590	10
26019	10/14/82	19.2	11.5	7.7	37-N	33-N	93-W	93-W	OGC	490	10
26049	10/21/82	13.7	12.2	1.5	39-N	39-N	108-W	108-W	OGC	620	10
26022	10/15/82	15.2	13.6	1.6	42-N	42-N	112-W	112-W	OGC	610	10
26017	10/14/82	16.8	15.0	1.8	42-N	45-N	93-W	93-W	OGC	580	0
26024	10/16/82	13.7	10.0	3.7	45-N	48-N	123-W	124-W	OGC	620	0
26018	10/14/82	19.2	15.0	4.2	45-N	41-N	93-W	93-W	OGC	460	10
26048	10/20/82	15.2	11.1	4.1	50-N	47-N	128-W	123-W	OGC	560	10
26047	10/20/82	16.8	11.5	5.3	54-N	51-N	139-W	136-W	OGC	450	20
26044	10/19/82	6.1	11.3	-5.2	61-N	61-N	150-W	150-W	OGC	690	20
26045	10/19/82	9.1	11.3	-2.2	61-N	61-N	151-W	151-W	OGC	650	0
26029	10/17/82	18.7	9.8	8.9	61-N	61-N	150-W	150-W	OGC	370	0
26041	10/18/82	15.2	11.4	3.8	62-N	65-N	150-W	149-W	OGC	570	0
26046	10/19/82	19.2	11.3	7.9	62-N	61-N	153-W	152-W	OGC	410	10
26025	10/17/82	12.2	8.6	3.6	65-N	65-N	148-W	148-W	OGC	580	0
26026	10/17/82	12.2	10.3	1.9	71-N	71-N	148-W	148-W	OGC	570	10
26042	10/18/82	15.2	10.2	5.0	71-N	75-N	148-W	140-W	OGC	400	10
26028	10/17/82	16.8	10.2	6.6	73-N	73-N	147-W	147-W	OGC	390	10
26027	10/17/82	16.8	10.1	6.7	75-N	75-N	146-W	146-W	OGC	420	10
26043	10/18/82	18.5	10.2	8.3	75-N	71-N	149-W	148-W	OGC	490	0
27049	03/24/83	18.3	17.3	1.0	3-N	7-N	79-W	79-W	OGC	630	0
27057	03/25/83	20.0	16.0	4.0	3-N	7-N	79-W	79-W	OGC	580	10

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
27056	03/25/83	19.8	16.0	3.8	4-S	4-S	79-W	79-W	OGC	590	10
27046	03/24/83	15.2	17.3	-2.1	7-N	5-N	79-W	79-W	OGC	690	10
27053	03/25/83	16.8	15.8	1.0	7-S	10-S	78-W	77-W	OGC	660	10
27055	03/25/83	19.3	16.0	3.3	7-S	4-S	78-W	79-W	OGC	590	0
27048	03/24/83	18.3	15.8	2.5	10-S	7-S	78-W	78-W	OGC	620	10
27054	03/25/83	19.2	15.8	3.4	10-S	7-S	77-W	77-W	OGC	590	10
27045	03/23/83	19.2	17.3	1.9	13-N	10-N	79-W	79-W	OGC	610	10
27043	03/21/83	15.2	16.2	-1.0	19-N	16-N	84-W	83-W	OGC	630	0
27058	03/26/83	13.7	13.0	.7	22-N	25-N	86-W	88-W	OGC	670	0
27059	03/28/83	19.2	16.5	2.7	22-N	25-N	93-W	93-W	OGC	560	0
27011	03/08/83	6.1	13.2	-7.1	29-N	29-N	94-W	94-W	OGC	690	10
27012	03/08/83	12.2	13.2	-1.0	29-N	29-N	95-W	95-W	OGC	620	10
27013	03/08/83	16.8	13.2	3.6	29-N	28-N	93-W	95-W	OGC	600	10
27014	03/08/83	19.2	13.2	6.0	29-N	29-N	92-W	95-W	OGC	510	0
27015	03/09/83	15.2	3.8	11.4	33-N	35-N	100-W	102-W	OGC	490	0
27041	03/18/83	16.8	11.1	5.7	42-N	45-N	92-W	92-W	OGC	550	10
27016	03/09/83	15.2	12.0	3.2	43-N	44-N	113-W	116-W	OGC	640	0
27018	03/10/83	13.7	12.0	1.7	44-N	47-N	123-W	124-W	OGC	570	10
27017	03/09/83	15.2	12.0	3.2	44-N	45-N	116-W	118-W	OGC	640	10
27042	03/18/83	18.9	10.9	8.0	45-N	40-N	92-W	92-W	OGC	450	10
27019	03/10/83	13.7	10.0	3.7	51-N	53-N	130-W	133-W	OGC	560	0
27028	03/15/83	16.8	11.4	5.4	54-N	52-N	139-W	137-W	OGC	430	10
27021	03/11/83	15.2	8.8	6.4	65-N	68-N	148-W	148-W	OGC	580	0
27024	03/11/83	12.2	8.9	3.3	68-N	65-N	148-W	148-W	OGC	590	10
27027	03/12/83	18.9	9.5	9.4	68-N	65-N	148-W	148-W	OGC	410	10
27022	03/11/83	15.2	7.5	7.7	71-N	75-N	148-W	148-W	OGC	490	10
27025	03/12/83	16.8	7.8	9.0	71-N	75-N	148-W	147-W	OGC	490	0
27036	03/13/83	2.4	8.8	-6.4	72-N	73-N	154-W	153-W	OGC	720	0
27035	03/13/83	2.4	8.8	-6.4	72-N	73-N	157-W	156-W	OGC	740	10
27033	03/13/83	2.4	8.8	-6.4	73-N	73-N	162-W	161-W	OGC	720	10
27032	03/13/83	2.4	8.8	-6.4	73-N	73-N	164-W	162-W	OGC	730	10
27037	03/13/83	2.4	8.8	-6.4	73-N	73-N	153-W	151-W	OGC	740	0
27034	03/13/83	2.4	8.8	-6.4	73-N	73-N	161-W	159-W	OGC	740	10
27023	03/11/83	12.2	7.5	4.7	75-N	71-N	148-W	148-W	OGC	550	10
28027	09/29/83	19.2	15.0	4.2	20-N	23-N	94-W	94-W	OGC	590	10
28024	09/29/83	16.8	15.0	1.8	22-N	20-N	94-W	94-W	OGC	690	10
28028	09/29/83	19.2	16.0	3.2	23-N	26-N	94-W	94-W	OGC	580	10
28023	09/29/83	16.8	15.5	1.3	26-N	22-N	94-W	94-W	OGC	660	10
28029	09/29/83	19.2	15.8	3.4	26-N	29-N	94-W	93-W	OGC	600	0
28037	09/30/83	16.8	14.9	1.9	28-N	29-N	96-W	94-W	OGC	690	10
28031	09/30/83	6.1	14.9	-8.8	29-N	29-N	95-W	95-W	OGC	720	10
28032	09/30/83	9.1	14.9	-5.8	29-N	29-N	95-W	95-W	OGC	710	10
28033	09/30/83	12.2	14.9	-2.7	29-N	29-N	94-W	95-W	OGC	730	0

TABLE 2 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
28034	09/30/83	13.7	14.9	-1.2	29-N	29-N	95-W	94-W	OGC	690	10
28035	09/30/83	15.2	14.9	.3	29-N	29-N	94-W	95-W	OGC	670	0
28036	09/30/83	15.2	14.9	.3	29-N	28-N	95-W	96-W	OGC	720	10
28021	09/29/83	16.8	15.5	1.3	29-N	28-N	93-W	94-W	OGC	640	10
28038	09/30/83	18.3	14.9	3.4	29-N	29-N	93-W	95-W	OGC	590	0
28011	09/28/83	16.8	15.3	1.5	30-N	31-N	93-W	93-W	OGC	650	0
28019	09/28/83	19.2	15.2	4.0	33-N	33-N	93-W	93-W	OGC	530	0
28012	09/28/83	16.8	13.5	3.3	34-N	35-N	93-W	93-W	OGC	660	10
28018	09/28/83	19.2	13.5	5.7	37-N	34-N	93-W	93-W	OGC	510	10
28013	09/28/83	16.8	11.8	5.0	38-N	39-N	93-W	93-W	OGC	630	10
28017	09/28/83	19.2	11.8	7.4	41-N	39-N	92-W	92-W	OGC	520	10
28014	09/28/83	16.8	11.2	5.6	42-N	45-N	93-W	93-W	OGC	650	10
28016	09/28/83	19.2	11.2	8.0	45-N	44-N	92-W	92-W	OGC	540	10
28015	09/28/83	19.2	10.8	8.4	47-N	45-N	92-W	92-W	OGC	550	10
29012	11/30/83	13.7	14.5	- .8	21-N	21-N	94-W	92-W	OGC	720	20
29013	11/30/83	13.7	14.5	- .8	21-N	21-N	92-W	91-W	OGC	730	10
29014	11/30/83	15.2	14.5	.7	21-N	21-N	91-W	91-W	OGC	680	0
29015	11/30/83	16.8	14.5	2.3	21-N	21-N	91-W	93-W	OGC	660	10
29016	11/30/83	19.8	14.6	5.2	21-N	24-N	93-W	93-W	OGC	570	10
29011	11/30/83	15.2	14.8	.4	27-N	21-N	94-W	94-W	OGC	720	20
29052	11/23/83	18.3	13.1	5.2	27-N	22-N	152-W	157-W	OGC	600	10
29017	11/30/83	19.8	14.0	5.8	27-N	27-N	94-W	94-W	OGC	600	20
29018	11/30/83	19.8	14.0	5.8	27-N	30-N	94-W	93-W	OGC	500	10
29043	11/16/83	15.2	13.4	1.8	30-N	33-N	96-W	99-W	OGC	600	10
29019	11/30/83	16.8	14.5	2.3	30-N	30-N	96-W	96-W	OGC	640	20
29044	11/16/83	15.2	12.2	3.0	35-N	35-N	101-W	101-W	OGC	640	10
29045	11/16/83	15.2	12.2	3.0	39-N	41-N	106-W	109-W	OGC	680	10
29046	11/16/83	15.2	10.0	5.2	45-N	45-N	117-W	117-W	OGC	640	20
29047	11/17/83	9.1	10.2	-1.1	46-N	45-N	122-W	123-W	OGC	720	10
29048	11/17/83	13.7	10.0	3.7	47-N	49-N	124-W	125-W	OGC	680	0
29039	11/22/83	16.8	10.0	6.8	51-N	50-N	130-W	130-W	OGC	570	10
29049	11/17/83	13.7	10.0	3.7	53-N	55-N	135-W	139-W	OGC	600	10
29035	11/21/83	19.2	10.9	8.3	53-N	56-N	150-W	150-W	OGC	550	10
29036	11/21/83	19.2	10.5	8.7	56-N	59-N	150-W	150-W	OGC	530	10
29037	11/21/83	16.8	10.0	6.8	59-N	61-N	150-W	149-W	OGC	540	10
29034	11/21/83	15.2	10.0	5.2	60-N	59-N	150-W	150-W	OGC	610	10
29031	11/20/83	3.1	10.3	-7.2	61-N	62-N	148-W	147-W	OGC	750	10
29038	11/21/83	13.7	10.0	3.7	61-N	61-N	149-W	149-W	OGC	660	10
29032	11/20/83	6.1	10.3	-4.2	62-N	62-N	146-W	145-W	OGC	800	0
29021	11/18/83	12.2	8.0	4.2	62-N	64-N	150-W	149-W	OGC	610	0
29025	11/19/83	15.2	8.1	7.1	63-N	65-N	149-W	149-W	OGC	530	10
29028	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	460	10
29029	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	470	0
29022	11/18/83	12.2	8.0	4.2	68-N	71-N	149-W	148-W	OGC	630	10
29023	11/18/83	12.2	8.0	4.2	71-N	75-N	148-W	148-W	OGC	630	10

TABLE 3
CONCENTRATION OF CCl_4 IN PROJECT AIRSTREAM SAMPLES
(pL L^{-1})

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 75	04/23/75	19.2	16.5	2.7	1-N	6-N	79-W	80-W	HASL	56	2
G 69	04/22/75	15.2	16.5	-1.3	4-N	1-N	80-W	80-W	HASL	68	2
G 77	04/21/75	16.8	16.5	.3	12-N	18-N	82-W	84-W	HASL	67	2
G 72	04/24/75	18.3	16.5	1.8	12-N	15-N	81-W	83-W	HASL	46	2
G 79	04/21/75	19.2	16.5	2.7	15-N	11-N	83-W	81-W	HASL	52	3
G 76	04/24/75	18.3	16.5	1.8	16-N	22-N	83-W	86-W	HASL	53	1
G 74	04/19/75	18.3	16.5	1.8	17-N	13-N	84-W	82-W	HASL	45	2
G 97	04/26/75	19.2	15.5	3.7	19-N	24-N	86-W	90-W	HASL	34	2
G 70	04/24/75	18.3	13.7	4.6	24-N	27-N	90-W	93-W	HASL	43	2
G 96	04/26/75	19.2	14.4	4.8	24-N	27-N	90-W	93-W	HASL	43	1
G 68	04/19/75	15.2	16.3	-1.1	27-N	21-N	92-W	86-W	HASL	68	2
G 95	04/26/75	16.8	14.4	2.4	27-N	24-N	92-W	90-W	HASL	67	1
G 94	05/07/75	13.7	11.7	2.0	33-N	30-N	97-W	95-W	HASL	70	6
G 78	04/25/75	15.2	12.9	2.3	35-N	39-N	96-W	96-W	HASL	60	1
G 88	04/27/75	16.7	10.8	5.9	36-N	39-N	99-W	102-W	HASL	60	1
G 98	05/07/75	13.7	11.2	2.5	39-N	36-N	102-W	100-W	HASL	50	2
G 71	04/25/75	19.2	13.0	6.2	39-N	36-N	96-W	96-W	HASL	34	2
G 92	04/28/75	13.7	9.8	3.9	48-N	52-N	111-W	118-W	HASL	50	1
G 91	04/27/75	16.8	10.9	5.9	48-N	51-N	112-W	116-W	HASL	26	2
G 83	05/06/75	15.2	10.6	4.6	52-N	49-N	119-W	115-W	HASL	45	2
G 90	04/27/75	19.1	10.9	8.2	52-N	48-N	118-W	112-W	HASL	15	1
G 80	05/02/75	19.1	9.6	9.5	58-N	60-N	140-W	145-W	HASL	14	1
G 93	04/28/75	13.7	8.8	4.9	59-N	60-N	138-W	144-W	HASL	36	2
G 82	05/02/75	16.8	9.6	7.2	60-N	58-N	150-W	140-W	HASL	21	1
G 87	05/06/75	15.2	10.6	4.6	61-N	59-N	150-W	138-W	HASL	41	2
G 86	04/29/75	12.2	7.9	4.3	71-N	75-N	148-W	148-W	HASL	47	3
G 84	04/29/75	14.9	8.2	6.7	75-N	71-N	148-W	148-W	HASL	36	2
G 85	05/01/75	18.3	8.8	9.5	75-N	71-N	148-W	148-W	HASL	14	1
G 105	08/01/75	16.8	15.5	1.3	5-N	1-N	80-W	80-W	HASL	55	1
G 117	08/02/75	15.2	16.5	-1.3	12-N	15-N	81-W	83-W	HASL	70	4
G 106	07/25/75	18.3	16.3	2.0	15-N	12-N	83-W	81-W	HASL	49	1
G 118	08/02/75	18.3	15.5	2.8	24-N	27-N	90-W	93-W	HASL	46	2
G 119	08/06/75	19.2	15.0	4.2	24-N	27-N	95-W	95-W	HASL	38	2
G 104	07/25/75	15.2	15.0	.2	27-N	24-N	92-W	90-W	HASL	62	2
G 116	08/06/75	16.8	15.0	1.8	27-N	24-N	95-W	95-W	HASL	54	1
G 122	07/23/75	15.2	16.1	-.9	36-N	39-N	95-W	94-W	HASL	58	2
G 101	07/15/75	16.8	15.4	1.4	36-N	39-N	100-W	100-W	HASL	51	1
G 114	07/20/75	13.7	15.9	-2.2	39-N	36-N	102-W	100-W	HASL	74	4
G 121	07/23/75	19.2	16.1	3.1	39-N	36-N	94-W	95-W	HASL	34	3
G 102	07/16/75	13.7	11.2	2.5	48-N	50-N	121-W	129-W	HASL	54	2

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 111	07/19/75	19.2	11.6	7.6	48-N	52-N	134-W	134-W	HASL	22	2
G 113	07/20/75	15.2	11.2	4.0	52-N	48-N	132-W	122-W	HASL	48	2
G 120	07/19/75	16.8	11.6	5.2	52-N	48-N	134-W	134-W	HASL	45	3
G 107	07/19/75	19.2	10.9	8.3	58-N	61-N	139-W	147-W	HASL	19	1
G 103	07/16/75	13.7	10.0	3.7	59-N	61-N	146-W	150-W	HASL	52	1
G 112	07/20/75	15.2	10.9	4.3	61-N	58-N	150-W	142-W	HASL	46	1
G 110	07/19/75	16.8	10.8	6.0	61-N	58-N	150-W	139-W	HASL	31	2
G 99	07/17/75	12.2	11.1	1.1	71-N	75-N	149-W	148-W	HASL	66	1
G 109	07/18/75	16.8	11.1	5.7	71-N	75-N	148-W	149-W	HASL	30	1
G 100	07/17/75	15.2	11.1	4.1	75-N	71-N	148-W	148-W	HASL	52	5
G 108	07/18/75	18.3	11.1	7.2	75-N	71-N	148-W	149-W	HASL	22	2
G 155	05/27/76	19.2	16.2	3.0	2-N	6-N	80-W	80-W	WSU	54	0
G 130	05/27/76	19.2	16.1	3.1	2-N	6-N	80-W	80-W	WSU	54	39
G 141	05/26/76	15.2	16.2	-1.0	7-S	10-S	79-W	78-W	WSU	84	0
G 145	05/26/76	18.3	16.2	2.1	10-S	7-S	78-W	79-W	WSU	75	0
G 154	05/27/76	19.2	16.2	3.0	10-S	6-S	78-W	79-W	WSU	58	2
G 150	05/28/76	15.2	16.2	-1.0	12-N	15-N	81-W	83-W	WSU	80	6
G 143	05/25/76	16.8	16.2	.6	12-N	15-N	79-W	79-W	WSU	84	2
G 144	05/24/76	18.3	16.2	2.1	15-N	12-N	83-W	81-W	WSU	49	8
G 146	05/25/76	19.2	16.2	3.0	15-N	12-N	79-W	79-W	WSU	58	1
G 153	05/28/76	15.2	15.5	-.3	24-N	27-N	90-W	93-W	WSU	41	21
G 159	06/09/76	19.2	15.6	3.6	24-N	26-N	95-W	95-W	WSU	38	2
G 156	05/24/76	15.2	14.0	1.2	27-N	24-N	93-W	90-W	WSU	83	2
G 158	06/09/76	16.8	15.6	1.2	27-N	24-N	95-W	95-W	WSU	73	3
G 151	06/08/76	15.2	12.6	2.6	36-N	39-N	95-W	95-W	WSU	69	0
G 131	06/01/76	16.8	13.6	3.2	36-N	39-N	103-W	106-W	WSU	31	1
G 149	06/07/76	13.7	14.2	-.5	39-N	36-N	108-W	104-W	WSU	71	5
G 147	06/08/76	19.2	12.6	6.6	39-N	36-N	95-W	95-W	WSU	31	5
G 133	06/02/76	13.7	8.6	5.1	47-N	50-N	122-W	127-W	WSU	55	2
G 157	06/06/76	19.2	9.7	9.5	47-N	50-N	129-W	129-W	WSU	36	2
G 132	06/01/76	16.8	8.3	8.5	48-N	50-N	123-W	128-W	WSU	42	8
G 152	06/06/76	15.2	9.7	5.5	52-N	48-N	135-W	131-W	WSU	55	0
G 140	06/05/76	19.2	10.6	8.6	58-N	61-N	142-W	147-W	WSU	21	1
G 134	06/02/76	13.7	9.7	4.0	59-N	61-N	141-W	148-W	WSU	59	4
G 148	06/06/76	15.2	11.0	4.2	61-N	58-N	148-W	143-W	WSU	66	5
G 139	06/05/76	16.8	10.6	6.2	61-N	58-N	150-W	142-W	WSU	44	6
G 135	06/03/76	13.3	10.2	3.1	71-N	74-N	148-W	149-W	WSU	62	6
G 137	06/04/76	15.2	10.5	4.7	71-N	75-N	148-W	148-W	WSU	48	6
G 136	06/03/76	16.8	10.2	6.6	75-N	71-N	149-W	148-W	WSU	26	6
G 138	06/04/76	18.3	10.5	7.8	75-N	71-N	149-W	148-W	WSU	22	2
G 170	08/20/76	18.3	15.7	2.6	2-N	6-N	80-W	80-W	WSU	67	3
G 168	08/21/76	19.2	15.1	4.1	2-N	6-N	80-W	80-W	WSU	62	0
G 178	08/20/76	15.2	15.3	-.1	6-N	2-N	80-W	80-W	WSU	93	2

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 177	08/21/76	16.8	15.1	1.7	6-N	2-N	80-W	80-W	WSU	88	1
G 173	08/20/76	15.2	15.7	-.5	7-S	10-S	79-W	78-W	WSU	95	0
G 175	08/21/76	16.8	15.7	1.1	7-S	10-S	78-W	78-W	WSU	86	2
G 169	08/20/76	18.3	15.8	2.5	10-S	7-S	78-W	79-W	WSU	70	2
G 172	08/21/76	19.2	15.7	3.5	10-S	7-S	78-W	79-W	WSU	64	0
G 192	08/22/76	15.2	15.1	.1	12-N	15-N	81-W	83-W	WSU	93	3
G 180	08/18/76	16.9	15.8	1.1	12-N	15-N	79-W	79-W	WSU	88	2
G 181	08/17/76	18.3	15.6	2.7	15-N	12-N	93-W	81-W	WSU	74	0
G 171	08/18/76	19.2	15.8	3.4	15-N	12-N	79-W	79-W	WSU	59	3
G 167	08/13/76	19.2	15.8	3.4	18-N	21-N	86-W	86-W	WSU	62	2
G 161	08/12/76	19.2	15.9	3.3	20-N	24-N	95-W	96-W	WSU	56	5
G 163	08/12/76	16.8	15.9	.9	23-N	20-N	96-W	95-W	WSU	84	2
G 174	08/13/76	15.2	16.0	-.8	24-N	21-N	87-W	86-W	WSU	82	1
G 191	08/22/76	18.3	14.7	3.6	24-N	27-N	87-W	90-W	WSU	65	0
G 176	08/13/76	19.2	16.0	3.2	24-N	27-N	87-W	89-W	WSU	50	2
G 162	08/12/76	19.2	15.9	3.3	24-N	27-N	96-W	95-W	WSU	56	3
G 179	08/17/76	15.2	15.5	-.3	27-N	24-N	93-W	90-W	WSU	91	0
G 182	08/13/76	16.8	16.0	.8	27-N	24-N	90-W	82-W	WSU	83	1
G 160	08/12/76	16.8	15.9	.9	27-N	23-N	95-W	96-W	WSU	82	3
G 188	08/23/76	15.2	15.1	.1	36-N	39-N	97-W	97-W	WSU	86	0
G 183	08/25/76	16.8	15.9	.9	36-N	39-N	106-W	110-W	WSU	81	0
G 164	08/31/76	13.7	16.7	-3.0	39-N	36-N	107-W	103-W	WSU	92	0
G 194	08/26/76	13.7	12.0	1.7	47-N	50-N	124-W	127-W	WSU	91	3
G 190	08/25/76	16.8	9.9	6.9	48-N	50-N	123-W	128-W	WSU	66	1
G 195	08/25/76	19.2	10.0	9.2	50-N	47-N	129-W	125-W	WSU	36	5
G 198	08/25/76	19.2	10.0	9.2	50-N	47-N	129-W	125-W	WSU	32	10
G 166	08/30/76	15.2	11.5	3.7	52-N	49-N	132-W	127-W	WSU	74	2
G 193	08/29/76	18.9	9.7	9.2	58-N	61-N	142-W	147-W	WSU	26	3
G 189	08/26/76	13.7	10.2	3.5	59-N	61-N	143-W	147-W	WSU	86	2
G 165	08/30/76	15.2	10.0	5.2	61-N	58-N	145-W	139-W	WSU	62	1
G 186	08/29/76	16.8	9.7	7.1	61-N	58-N	147-W	147-W	WSU	50	0
G 197	08/21/76	12.5	10.0	2.5	71-N	74-N	148-W	148-W	WSU	92	0
G 196	08/28/76	15.2	11.1	4.1	71-N	75-N	148-W	148-W	WSU	70	1
G 185	08/27/76	16.8	10.9	5.9	75-N	72-N	149-W	149-W	WSU	62	0
G 184	08/28/76	18.7	11.1	7.6	75-N	71-N	147-W	148-W	WSU	26	4
G 210	11/14/76	18.3	17.1	1.2	2-N	6-N	80-W	80-W	WSU	81	0
G 218	11/15/76	19.2	16.9	2.3	2-N	6-N	80-W	80-W	WSU	60	2
G 211	11/14/76	15.2	17.1	-1.9	6-N	2-N	80-W	80-W	WSU	98	3
G 213	11/15/76	16.8	17.0	-.2	6-N	2-N	80-W	80-W	WSU	95	5
G 220	11/14/76	15.2	17.3	-2.1	7-S	10-S	78-W	78-W	WSU	92	4
G 214	11/15/76	16.8	16.5	.3	7-S	10-S	80-W	78-W	WSU	102	1
G 221	11/14/76	18.3	17.3	1.0	10-S	7-S	78-W	79-W	WSU	75	2
G 217	11/15/76	19.2	16.4	2.8	10-S	7-S	78-W	79-W	WSU	77	5

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 200	11/16/76	15.2	16.7	-1.5	12-N	15-N	81-W	83-W	WSU	94	0
G 219	11/13/76	19.2	17.6	1.6	12-N	15-N	79-W	79-W	WSU	80	0
G 212	11/13/76	16.8	16.8	0	15-N	12-N	79-W	79-W	WSU	95	2
G 216	11/11/76	18.3	16.4	1.9	15-N	12-N	83-W	81-W	WSU	34	2
G 203	11/16/76	18.3	15.2	3.1	24-N	27-N	87-W	90-W	WSU	76	1
G 201	11/17/76	19.2	15.3	3.9	24-N	27-N	96-W	95-W	WSU	64	5
G 215	11/11/76	15.2	16.1	-.9	27-N	24-N	90-W	87-W	WSU	92	2
G 205	11/17/76	16.8	15.3	1.5	27-N	24-N	95-W	95-W	WSU	84	2
G 207	10/28/76	15.2	11.8	3.4	36-N	37-N	98-W	98-W	WSU	76	2
G 209	10/28/76	15.2	11.9	3.3	37-N	39-N	98-W	98-W	WSU	77	0
G 204	10/28/76	19.2	11.9	7.3	38-N	37-N	98-W	98-W	WSU	38	2
G 206	11/08/76	13.7	12.8	.9	39-N	36-N	106-W	103-W	WSU	96	5
G 208	10/28/76	19.2	11.9	7.3	39-N	38-N	98-W	98-W	WSU	37	2
G 229	10/31/76	13.7	11.4	2.3	47-N	50-N	124-W	127-W	WSU	92	2
G 227	10/30/76	16.8	11.3	5.5	48-N	50-N	124-W	128-W	WSU	61	5
G 223	10/30/76	19.2	11.4	7.8	50-N	48-N	128-W	125-W	WSU	36	0
G 199	11/07/76	15.2	11.4	3.8	52-N	49-N	130-W	126-W	WSU	82	1
G 226	10/31/76	13.7	8.2	5.5	59-N	60-N	143-W	144-W	WSU	69	2
G 202	11/07/76	15.2	9.7	5.5	61-N	59-N	146-W	140-W	WSU	80	0
G 225	11/06/76	16.8	8.6	8.2	61-N	58-N	154-W	154-W	WSU	67	2
G 222	11/04/76	12.2	9.0	3.2	71-N	74-N	148-W	148-W	WSU	81	3
G 230	11/05/76	15.2	9.7	5.5	71-N	76-N	148-W	147-W	WSU	58	1
G 228	11/04/76	16.8	9.0	7.8	75-N	71-N	147-W	148-W	WSU	30	2
G 232	11/05/76	18.3	9.7	8.6	75-N	71-N	147-W	148-W	WSU	20	5
G 251	03/30/77	18.3	17.7	.6	2-N	6-N	80-W	80-W	WSU	84	3
G 252	03/31/77	19.2	17.7	1.5	2-N	6-N	80-W	80-W	WSU	74	0
G 249	03/31/77	15.2	17.7	-2.5	6-N	3-N	80-W	80-W	WSU	99	1
G 247	03/30/77	16.8	17.7	-.9	6-N	2-S	80-W	80-W	WSU	91	1
G 248	03/31/77	19.2	17.7	1.5	10-S	7-S	78-W	79-W	WSU	70	0
G 262	04/02/77	15.2	16.2	-1.0	12-N	15-N	81-W	83-W	WSU	100	2
G 246	04/01/77	16.8	16.4	.4	12-N	15-N	79-W	79-W	WSU	93	2
G 250	03/30/77	18.3	17.2	1.1	15-N	12-N	83-W	81-W	WSU	84	0
G 253	04/01/77	19.2	16.4	2.8	15-N	12-N	79-W	79-W	WSU	52	0
G 257	03/23/77	19.2	17.0	2.2	24-N	27-N	94-W	94-W	WSU	78	0
G 266	03/23/77	19.2	17.0	2.2	24-N	27-N	94-W	94-W	WSU	64	2
G 260	04/02/77	18.3	17.0	1.3	25-N	27-N	88-W	90-W	WSU	91	0
G 264	03/23/77	16.8	17.0	-.2	27-N	24-N	94-W	94-W	WSU	90	0
G 263	03/24/77	15.2	11.0	4.2	36-N	39-N	96-W	96-W	WSU	88	3
G 258	04/10/77	13.7	13.0	.7	39-N	36-N	107-W	103-W	WSU	80	0
G 256	03/24/77	19.2	11.0	8.2	39-N	36-N	96-W	95-W	WSU	24	0
G 237	04/04/77	19.2	11.7	7.5	49-N	48-N	126-W	124-W	WSU	40	1
G 265	04/09/77	15.2	10.4	4.8	52-N	50-N	132-W	127-W	WSU	61	1
G 261	04/09/77	15.2	9.1	6.1	61-N	60-N	145-W	139-W	WSU	61	7

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 241	04/07/77	16.8	8.8	8.0	61-N	58-N	150-W	150-W	WSU	25	1
G 242	04/06/77	12.2	8.1	4.1	71-N	75-N	148-W	147-W	WSU	61	2
G 244	04/07/77	15.2	7.4	7.8	71-N	75-N	149-W	148-W	WSU	18	1
G 243	04/06/77	16.8	8.1	8.7	75-N	71-N	149-W	148-W	WSU	16	2
G 245	04/07/77	18.3	7.4	10.9	75-N	71-N	149-W	149-W	WSU	17	1
G 290	07/10/77	19.2	16.2	3.0	2-N	6-N	80-W	80-W	WSU	69	2
G 302	07/11/77	3.1	15.3	-12.2	6-N	6-N	81-W	81-W	WSU	109	0
G 295	07/11/77	6.1	15.5	-9.4	6-N	6-N	81-W	81-W	WSU	106	2
G 297	07/11/77	9.1	15.5	-6.4	6-N	6-N	81-W	81-W	WSU	102	1
G 294	07/11/77	12.2	15.5	-3.3	6-N	6-N	81-W	81-W	WSU	100	2
G 279	07/10/77	15.2	16.2	-1.0	6-N	2-N	80-W	80-W	WSU	100	2
G 275	07/10/77	18.3	16.2	2.1	6-N	2-N	80-W	80-W	WSU	80	0
G 300	07/12/77	15.2	15.6	-.4	12-N	15-N	81-W	83-W	WSU	98	5
G 289	07/09/77	16.8	16.2	.6	12-N	15-N	79-W	79-W	WSU	96	0
G 286	07/08/77	18.3	16.2	2.1	15-N	12-N	83-W	81-W	WSU	76	2
G 277	07/09/77	19.2	16.2	3.0	15-N	12-N	79-W	79-W	WSU	67	2
G 287	07/12/77	18.3	15.9	2.4	24-N	27-N	87-W	90-W	WSU	59	2
G 276	07/07/77	19.2	15.2	4.0	24-N	27-N	94-W	94-W	WSU	64	0
G 301	07/08/77	15.2	13.8	1.4	27-N	24-N	90-W	87-W	WSU	97	1
G 278	07/22/77	15.2	15.0	.2	27-N	27-N	95-W	94-W	WSU	90	8
G 296	07/07/77	16.8	15.2	1.6	27-N	24-N	94-W	94-W	WSU	87	0
G 283	07/22/77	13.7	15.0	-1.3	28-N	27-N	95-W	95-W	WSU	101	1
G 282	07/14/77	15.2	15.2	0	36-N	39-N	98-W	98-W	WSU	100	3
G 298	07/14/77	16.8	15.1	1.7	36-N	39-N	106-W	109-W	WSU	77	1
G 292	07/14/77	19.2	15.2	4.0	39-N	36-N	96-W	96-W	WSU	53	1
G 384	07/15/77	13.7	12.5	1.2	47-N	51-N	125-W	131-W	WSU	80	1
G 386	07/15/77	13.7	12.5	1.2	48-N	48-N	124-W	125-W	WSU	49	0
G 280	07/14/77	16.8	12.5	4.3	48-N	50-N	124-W	128-W	WSU	61	0
G 284	07/14/77	19.2	12.5	6.7	50-N	47-N	129-W	127-W	WSU	33	1
G 305	07/20/77	15.2	11.2	4.0	52-N	51-N	132-W	129-W	WSU	59	0
G 274	07/19/77	19.2	9.8	9.4	58-N	61-N	148-W	148-W	WSU	26	2
G 379	07/15/77	13.7	10.3	3.4	59-N	62-N	143-W	147-W	WSU	75	2
G 303	07/20/77	15.2	10.6	4.6	60-N	58-N	142-W	139-W	WSU	60	0
G 293	07/18/77	3.1	10.4	-7.3	61-N	61-N	148-W	149-W	WSU	108	0
G 288	07/18/77	6.1	10.4	-4.3	61-N	61-N	148-W	148-W	WSU	111	4
G 299	07/18/77	12.2	10.4	1.8	61-N	62-N	149-W	148-W	WSU	84	0
G 304	07/20/77	15.2	10.6	4.6	61-N	60-N	147-W	142-W	WSU	70	3
G 291	07/19/77	16.8	10.4	6.4	61-N	59-N	148-W	148-W	WSU	45	2
G 381	07/16/77	12.2	10.1	2.1	71-N	74-N	148-W	148-W	WSU	80	3
G 383	07/17/77	15.2	9.5	5.7	71-N	75-N	148-W	147-W	WSU	70	2
G 362	10/15/77	16.8	17.1	-.3	2-N	6-N	80-W	80-W	WSU	86	1
G 356	10/15/77	19.2	17.1	2.1	2-N	6-N	80-W	80-W	WSU	70	0
G 351	10/15/77	15.2	17.1	-1.9	6-N	2-N	80-W	80-W	WSU	103	2

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 346	10/15/77	18.3	17.1	1.2	6-N	2-N	80-W	80-W	WSU	71	1
G 361	10/16/77	3.1	16.3	-13.2	7-N	7-N	81-W	81-W	WSU	104	2
G 347	10/16/77	6.1	16.3	-10.2	7-N	7-N	81-W	82-W	WSU	104	0
G 359	10/16/77	12.2	11.3	.9	7-N	6-N	82-W	82-W	WSU	102	0
G 349	10/17/77	13.7	14.6	-.9	7-N	12-N	79-W	80-W	WSU	99	2
G 353	10/17/77	13.7	15.6	-1.9	12-N	15-N	81-W	83-W	WSU	90	0
G 348	10/14/77	16.8	15.2	1.6	12-N	15-N	79-W	79-W	WSU	98	2
G 336	10/13/77	15.2	16.0	-.8	14-N	12-N	82-W	81-W	WSU	99	2
G 343	10/14/77	19.2	15.2	4.0	14-N	11-N	79-W	79-W	WSU	80	10
G 345	10/14/77	19.2	15.2	4.0	15-N	12-N	79-W	80-W	WSU	72	0
G 357	10/17/77	13.7	15.2	-1.5	24-N	26-N	88-W	91-W	WSU	106	0
G 364	10/27/77	19.2	15.2	4.0	24-N	27-N	94-W	94-W	WSU	58	0
G 341	10/13/77	15.2	14.6	.6	27-N	24-N	92-W	88-W	WSU	52	1
G 365	10/29/77	18.3	15.0	3.3	27-N	30-N	94-W	94-W	WSU	65	1
G 335	10/12/77	9.1	15.0	-5.9	28-N	29-N	94-W	93-W	WSU	112	2
G 354	10/12/77	3.1	14.5	-11.4	29-N	28-N	95-W	95-W	WSU	101	0
G 350	10/12/77	13.7	14.5	-.8	29-N	29-N	93-W	94-W	WSU	100	2
G 338	10/12/77	15.2	14.0	1.2	30-N	30-N	94-W	93-W	WSU	96	3
G 342	10/29/77	16.8	15.5	1.3	36-N	39-N	93-W	93-W	WSU	92	0
G 327	10/20/77	15.2	15.4	-.2	37-N	39-N	105-W	109-W	WSU	104	2
G 352	10/20/77	13.7	15.0	-1.3	39-N	36-N	107-W	104-W	WSU	102	0
G 337	10/29/77	19.2	15.5	3.7	39-N	36-N	93-W	93-W	WSU	41	0
G 334	10/21/77	13.7	12.5	1.2	47-N	49-N	124-W	127-W	WSU	99	2
G 329	10/20/77	15.2	12.5	2.7	47-N	48-N	122-W	127-W	WSU	86	2
G 363	10/25/77	19.2	14.3	4.9	47-N	50-N	126-W	128-W	WSU	42	0
G 339	10/25/77	16.8	11.9	4.9	52-N	49-N	132-W	126-W	WSU	29	1
G 328	10/21/77	13.7	9.8	3.9	57-N	59-N	140-W	146-W	WSU	79	0
G 333	10/25/77	16.8	10.7	6.1	60-N	57-N	146-W	139-W	WSU	43	2
G 380	10/22/77	19.2	9.0	10.2	61-N	58-N	150-W	150-W	WSU	18	2
G 332	10/24/77	3.1	10.7	-7.6	62-N	61-N	150-W	150-W	WSU	107	3
G 344	10/24/77	9.1	10.7	-1.6	62-N	62-N	150-W	151-W	WSU	105	2
G 330	10/24/77	12.2	10.7	1.5	62-N	62-N	149-W	150-W	WSU	86	2
G 385	10/22/77	12.2	10.7	1.5	71-N	75-N	149-W	148-W	WSU	88	0
G 376	10/22/77	12.2	10.7	1.5	71-N	75-N	149-W	148-W	WSU	88	0
G 360	10/23/77	15.2	10.7	4.5	72-N	75-N	149-W	148-W	WSU	66	2
G 382	10/22/77	16.8	10.7	6.1	75-N	71-N	149-W	149-W	WSU	46	0
G 340	10/23/77	18.3	10.7	7.6	75-N	71-N	148-W	148-W	WSU	21	2
G 395	04/08/78	15.2	17.1	-1.9	6-N	3-N	80-W	80-W	WSU	102	3
G 396	04/08/78	18.3	17.1	1.2	6-N	2-N	80-W	79-W	WSU	94	0
G 400	04/09/78	3.1	17.1	-14.0	7-N	7-N	80-W	80-W	WSU	108	1
G 399	04/09/78	6.1	17.1	-11.0	7-N	7-N	80-W	80-W	WSU	124	2
G 398	04/09/78	9.1	17.1	-8.0	7-N	7-N	80-W	80-W	WSU	108	0
G 403	04/10/78	13.7	17.0	-3.3	12-N	15-N	81-W	83-W	WSU	98	1

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 404	04/10/78	13.7	17.0	-3.3	12-N	15-N	81-W	83-W	WSU	88	3
G 394	04/07/78	16.8	17.1	-.3	12-N	11-N	79-W	79-W	WSU	105	1
G 392	04/06/78	15.2	17.1	-1.9	15-N	12-N	83-W	81-W	WSU	94	0
G 393	04/07/78	19.2	17.1	2.1	15-N	12-N	80-W	80-W	WSU	63	1
G 406	04/11/78	18.3	12.8	5.5	24-N	27-N	94-W	94-W	WSU	84	2
G 407	04/11/78	19.2	12.8	6.4	24-N	27-N	94-W	94-W	WSU	82	0
G 408	04/11/78	18.3	12.8	5.5	25-N	28-N	94-W	94-W	WSU	78	2
G 391	04/06/78	15.2	12.2	3.0	27-N	25-N	93-W	90-W	WSU	98	2
G 388	04/05/78	6.1	12.2	-6.1	29-N	29-N	94-W	93-W	WSU	107	3
G 389	04/05/78	13.7	12.2	1.5	29-N	29-N	94-W	93-W	WSU	92	0
G 390	04/05/78	15.2	12.2	3.0	30-N	29-N	95-W	94-W	WSU	98	2
G 409	04/13/78	16.8	11.2	5.6	36-N	39-N	93-W	93-W	WSU	84	3
G 411	04/14/78	15.2	10.7	4.5	37-N	40-N	107-W	110-W	WSU	84	2
G 431	04/21/78	13.7	10.1	3.6	39-N	36-N	114-W	112-W	WSU	66	1
G 410	04/13/78	19.2	11.2	8.0	39-N	36-N	93-W	94-W	WSU	74	0
G 430	04/21/78	13.7	9.8	3.9	42-N	40-N	117-W	115-W	WSU	59	6
G 429	04/21/78	13.7	9.8	3.9	45-N	43-N	120-W	118-W	WSU	65	2
G 426	04/20/78	18.9	9.1	9.8	47-N	50-N	125-W	128-W	WSU	38	0
G 412	04/14/78	15.2	8.2	7.0	50-N	47-N	127-W	124-W	WSU	70	0
G 428	04/20/78	16.8	9.1	7.7	52-N	48-N	132-W	127-W	WSU	64	0
G 427	04/20/78	16.8	9.3	7.5	60-N	58-N	148-W	141-W	WSU	59	2
G 422	04/19/78	3.1	9.1	-6.0	62-N	62-N	150-W	151-W	WSU	107	2
G 424	04/19/78	6.1	9.1	-3.0	62-N	62-N	150-W	151-W	WSU	119	1
G 423	04/19/78	9.1	9.1	0	62-N	62-N	151-W	151-W	WSU	98	2
G 425	04/19/78	12.2	9.1	3.1	62-N	62-N	151-W	151-W	WSU	86	6
G 418	04/17/78	19.2	9.8	9.4	62-N	58-N	150-W	151-W	WSU	35	0
G 420	04/18/78	15.2	11.1	4.1	71-N	75-N	152-W	151-W	WSU	49	1
G 421	04/18/78	18.7	11.1	7.6	75-N	71-N	151-W	151-W	WSU	41	1
G 487	07/29/78	16.8	15.9	.9	2-N	6-N	80-W	80-W	WSU	103	3
G 453	07/29/78	19.2	16.8	2.4	2-N	5-N	80-W	80-W	WSU	76	0
G 493	07/29/78	15.2	16.8	-1.6	6-N	3-N	80-W	80-W	WSU	98	6
G 488	07/29/78	18.3	15.9	2.4	6-N	2-N	80-W	80-W	WSU	78	6
G 496	07/30/78	6.1	17.1	-11.0	8-N	8-N	79-W	79-W	WSU	105	7
G 497	07/30/78	9.1	17.1	-8.0	8-N	9-N	79-W	79-W	WSU	107	3
G 491	07/31/78	13.7	16.5	-2.8	8-N	10-N	80-W	81-W	WSU	104	1
G 484	07/30/78	3.1	17.0	-13.9	9-N	9-N	80-W	80-W	WSU	123	8
G 492	07/30/78	12.2	17.1	-4.9	9-N	9-N	79-W	79-W	WSU	106	4
G 489	07/31/78	13.7	15.9	-2.2	12-N	15-N	82-W	83-W	WSU	110	1
G 485	07/25/78	16.8	14.6	2.2	12-N	15-N	80-W	80-W	WSU	86	11
G 495	07/31/78	13.7	14.9	-1.2	24-N	26-N	88-W	90-W	WSU	109	0
G 461	07/20/78	19.2	15.0	4.2	24-N	27-N	94-W	94-W	WSU	66	2
G 456	07/24/78	15.2	13.7	1.5	27-N	25-N	92-W	89-W	WSU	99	4
G 450	07/11/78	3.1	15.4	-12.3	29-N	29-N	95-W	95-W	WSU	109	0

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 458	07/11/78	13.7	15.4	-1.7	29-N	29-N	95-W	95-W	WSU	104	2
G 465	07/11/78	15.2	15.4	-.2	29-N	29-N	94-W	94-W	WSU	102	0
G 472	07/19/78	13.7	14.6	-.9	36-N	34-N	104-W	101-W	WSU	104	2
G 464	07/21/78	16.8	14.9	1.9	36-N	39-N	93-W	93-W	WSU	86	0
G 448	07/12/78	15.2	15.3	-.1	37-N	40-N	105-W	108-W	WSU	97	4
G 467	07/19/78	13.7	15.2	-1.5	42-N	40-N	112-W	109-W	WSU	104	2
G 477	07/19/78	13.7	11.3	2.4	45-N	44-N	118-W	115-W	WSU	102	4
G 449	07/14/78	13.7	13.7	0	47-N	49-N	124-W	125-W	WSU	106	1
G 457	07/12/78	15.2	11.3	3.9	47-N	49-N	121-W	126-W	WSU	78	0
G 471	07/18/78	19.2	11.1	8.1	47-N	50-N	131-W	129-W	WSU	39	0
G 476	07/18/78	16.8	11.4	5.4	60-N	57-N	146-W	143-W	WSU	59	0
G 480	07/15/78	18.3	10.5	7.8	61-N	58-N	150-W	150-W	WSU	35	0
G 469	07/17/78	12.2	10.5	1.7	65-N	65-N	144-W	144-W	WSU	92	2
G 473	07/17/78	3.1	9.8	-6.7	66-N	66-N	144-W	144-W	WSU	109	6
G 478	07/17/78	6.1	10.4	-4.3	66-N	66-N	145-W	144-W	WSU	107	2
G 482	07/11/78	9.1	9.8	-.7	66-N	66-N	145-W	145-W	WSU	109	3
G 466	07/15/78	12.2	9.8	2.4	71-N	73-N	149-W	149-W	WSU	92	2
G 475	07/16/78	15.2	9.8	5.4	71-N	74-N	149-W	148-W	WSU	78	0
G 474	07/15/78	16.8	9.8	7.0	74-N	71-N	150-W	149-W	WSU	54	0
G 481	07/16/78	19.2	9.8	9.4	75-N	72-N	149-W	150-W	WSU	35	0
G 551	10/19/78	16.8	16.2	.6	2-N	6-N	80-W	80-W	WSU	99	2
G 550	10/19/78	15.2	16.2	-1.0	6-N	3-N	80-W	80-W	WSU	117	4
G 538	10/18/78	16.8	16.2	.6	12-N	15-N	81-W	83-W	WSU	100	0
G 508	10/16/78	15.2	16.2	-1.0	15-N	12-N	83-W	81-W	WSU	104	0
G 549	10/18/78	19.2	16.2	3.0	15-N	12-N	83-W	82-W	WSU	67	2
G 514	10/20/78	13.7	15.5	-1.8	24-N	25-N	88-W	89-W	WSU	116	6
G 515	10/13/78	18.3	15.5	2.8	24-N	27-N	95-W	95-W	WSU	72	0
G 510	10/13/78	19.2	15.0	4.2	24-N	27-N	95-W	95-W	WSU	62	2
G 517	10/16/78	15.2	15.5	-.3	27-N	25-N	92-W	89-W	WSU	102	2
G 504	10/13/78	16.8	15.0	1.8	27-N	24-N	95-W	95-W	WSU	91	3
G 554	10/11/78	3.1	16.2	-13.1	29-N	29-N	95-W	95-W	WSU	126	7
G 555	10/11/78	9.1	16.2	-7.1	29-N	29-N	95-W	94-W	WSU	110	2
G 556	10/11/78	13.7	16.2	-2.5	29-N	29-N	94-W	94-W	WSU	107	2
G 557	10/11/78	15.2	16.2	-1.0	29-N	29-N	94-W	94-W	WSU	97	6
G 529	11/07/78	13.7	13.0	.7	36-N	33-N	102-W	99-W	WSU	89	0
G 503	10/14/78	16.8	12.2	4.6	36-N	39-N	93-W	93-W	WSU	83	0
G 547	11/07/78	13.7	12.8	.9	39-N	37-N	107-W	104-W	OGC	88	1
G 519	10/14/78	19.2	12.1	7.1	39-N	36-N	93-W	93-W	WSU	50	2
G 522	11/07/78	13.7	12.8	.9	42-N	40-N	111-W	108-W	WSU	86	0
G 506	11/07/78	13.7	13.7	0	45-N	44-N	117-W	114-W	WSU	97	0
G 548	10/31/78	13.7	12.8	.9	47-N	49-N	128-W	129-W	WSU	98	0
G 513	10/30/78	15.2	12.7	2.5	47-N	49-N	121-W	126-W	WSU	100	2
G 526	11/06/78	19.0	12.5	6.5	50-N	47-N	128-W	123-W	WSU	50	0

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 527	11/06/78	16.8	12.5	4.3	52-N	49-N	132-W	129-W	WSU	66	2
G 536	11/06/78	16.8	8.2	8.6	60-N	58-N	147-W	142-W	WSU	51	0
G 518	11/02/78	3.1	9.1	-6.0	61-N	61-N	158-W	158-W	WSU	121	3
G 539	11/02/78	6.1	9.1	-3.0	61-N	61-N	157-W	157-W	WSU	112	0
G 531	11/02/78	9.1	9.1	0	61-N	60-N	157-W	156-W	WSU	109	0
G 546	11/02/78	12.2	9.1	3.1	61-N	61-N	159-W	157-W	WSU	91	3
G 528	11/01/78	12.2	10.1	2.1	71-N	74-N	150-W	150-W	WSU	90	0
G 520	11/01/78	16.8	10.1	6.7	75-N	72-N	151-W	151-W	WSU	46	0
G 591	04/11/79	16.8	16.5	.3	2-N	6-N	80-W	80-W	WSU	83	0
G 511	04/11/79	19.2	16.8	2.4	2-N	6-N	80-W	80-W	OGC	60	1
G 583	04/12/79	3.1	16.2	-13.1	6-N	6-N	81-W	81-W	WSU	114	2
G 589	04/12/79	6.1	16.2	-10.1	6-N	6-N	81-W	81-W	WSU	117	2
G 587	04/12/79	9.1	16.2	-7.1	6-N	6-N	81-W	81-W	WSU	100	2
G 586	04/12/79	12.2	16.2	-4.0	6-N	6-N	81-W	81-W	WSU	100	1
G 537	04/11/79	18.3	16.8	1.5	6-N	2-N	80-W	80-W	WSU	90	0
G 590	04/13/79	13.7	17.1	-3.4	7-N	9-N	80-W	80-W	WSU	95	1
G 579	04/13/79	13.7	17.1	-3.4	12-N	15-N	81-W	83-W	WSU	98	1
G 595	04/09/79	15.2	16.2	-1.0	15-N	12-N	83-W	82-W	WSU	91	1
G 580	04/10/79	19.2	16.5	2.7	15-N	12-N	79-W	79-W	OGC	69	1
G 578	04/13/79	13.7	14.2	-.5	24-N	26-N	88-W	90-W	OGC	92	2
G 594	04/09/79	15.2	16.3	-1.1	27-N	25-N	92-W	89-W	WSU	83	1
G 543	04/05/79	3.1	15.6	-12.5	29-N	30-N	95-W	94-W	WSU	107	1
G 540	04/05/79	9.1	15.6	-6.5	29-N	29-N	94-W	94-W	WSU	100	0
G 509	04/05/79	13.7	15.6	-1.9	29-N	29-N	94-W	94-W	OGC	97	1
G 516	04/05/79	15.2	16.8	-1.6	29-N	29-N	94-W	94-W	WSU	89	2
G 560	04/25/79	13.7	12.3	1.4	36-N	33-N	103-W	99-W	WSU	79	2
G 521	04/06/79	16.8	12.6	4.2	36-N	39-N	93-W	93-W	OGC	74	2
G 562	04/25/79	13.7	12.6	1.1	39-N	36-N	107-W	103-W	WSU	64	0
G 532	04/06/79	19.2	12.6	6.6	39-N	36-N	93-W	93-W	OGC	38	0
G 561	04/25/79	13.7	12.5	1.2	42-N	40-N	112-W	108-W	WSU	70	1
G 566	04/25/79	13.7	11.3	2.4	45-N	42-N	118-W	112-W	WSU	68	1
G 609	04/20/79	13.7	9.7	4.0	47-N	52-N	124-W	132-W	WSU	66	2
G 577	04/19/79	15.2	9.7	5.5	47-N	50-N	122-W	128-W	WSU	66	0
G 605	04/19/79	15.2	9.7	5.5	47-N	48-N	122-W	125-W	WSU	66	3
G 565	04/24/79	16.8	11.2	5.6	52-N	49-N	131-W	127-W	WSU	54	0
G 585	04/20/79	13.7	12.5	1.2	57-N	59-N	140-W	144-W	WSU	72	2
G 568	04/24/79	16.8	12.1	4.7	60-N	57-N	143-W	136-W	OGC	49	0
G 574	04/21/79	3.1	12.2	-9.1	62-N	62-N	146-W	146-W	WSU	93	2
G 571	04/21/79	6.1	11.6	-5.5	62-N	62-N	145-W	145-W	WSU	104	1
G 524	04/21/79	10.7	12.6	-1.9	62-N	62-N	145-W	145-W	WSU	105	0
G 569	04/21/79	12.2	12.6	-.4	63-N	62-N	145-W	145-W	WSU	98	2
G 573	04/23/79	15.2	9.7	5.5	71-N	75-N	148-W	147-W	WSU	40	0
G 570	04/24/79	16.8	9.7	7.1	75-N	71-N	147-W	148-W	OGC	53	0

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 576	04/23/79	18.6	9.7	8.9	75-N	71-N	149-W	148-W	OGC	46	2
G 612	08/01/79	18.3	15.5	2.8	24-N	27-N	88-W	91-W	WSU	76	0
G 604	07/06/79	19.2	16.2	3.0	24-N	27-N	87-W	92-W	WSU	46	1
G 588	07/16/79	15.2	15.6	-.4	28-N	29-N	94-W	95-W	WSU	86	2
G 602	07/06/79	15.2	15.2	0	28-N	26-N	93-W	90-W	WSU	93	2
G 600	07/16/79	3.1	15.6	-12.5	29-N	29-N	95-W	95-W	WSU	104	3
G 607	07/16/79	9.1	15.6	-6.5	29-N	29-N	94-W	94-W	WSU	108	0
G 593	07/16/79	13.7	15.6	-1.9	29-N	29-N	94-W	95-W	WSU	100	0
G 627	07/24/79	13.7	14.6	-.9	36-N	33-N	103-W	100-W	WSU	96	3
G 610	07/18/79	15.2	15.9	-.7	37-N	39-N	104-W	108-W	WSU	89	0
G 626	07/24/79	13.7	14.7	-1.0	38-N	36-N	105-W	103-W	WSU	95	0
G 608	07/03/79	19.2	15.8	3.4	39-N	36-N	96-W	97-W	WSU	38	0
G 625	07/24/79	13.7	14.9	-1.2	42-N	39-N	112-W	108-W	WSU	97	1
G 624	07/24/79	13.7	13.2	.5	45-N	42-N	118-W	112-W	WSU	80	0
G 601	07/19/79	13.7	12.0	1.7	47-N	49-N	124-W	126-W	OGC	75	1
G 592	07/18/79	15.2	11.0	4.2	47-N	49-N	121-W	121-W	WSU	62	0
G 623	07/23/79	19.2	11.3	7.9	50-N	47-N	125-W	124-W	WSU	38	0
G 622	07/23/79	16.8	11.3	5.5	52-N	48-N	130-W	125-W	WSU	50	2
G 575	07/19/79	13.7	10.5	3.2	57-N	60-N	140-W	147-W	WSU	74	1
G 621	07/23/79	16.8	11.3	5.5	60-N	58-N	143-W	137-W	WSU	44	0
G 615	07/22/79	19.2	10.3	8.9	61-N	58-N	150-W	157-W	WSU	42	0
G 618	07/20/79	3.1	10.3	-7.2	62-N	62-N	151-W	152-W	WSU	108	0
G 619	07/20/79	6.1	10.3	-4.2	62-N	63-N	151-W	152-W	WSU	102	2
G 599	07/20/79	9.1	10.1	-1.0	63-N	64-N	152-W	152-W	WSU	124	1
G 620	07/20/79	12.2	10.3	1.9	63-N	62-N	152-W	151-W	WSU	90	1
G 613	07/22/79	12.2	10.4	1.8	70-N	74-N	148-W	148-W	WSU	86	0
G 617	07/21/79	18.3	11.9	6.4	75-N	71-N	148-W	149-W	WSU	37	0
G 696	11/12/79	16.8	16.6	.2	2-N	6-N	80-W	80-W	WSU	106	2
G 690	11/12/79	19.2	16.6	2.6	2-N	6-N	80-W	80-W	WSU	82	0
G 699	11/12/79	15.2	16.6	-1.4	6-N	3-N	79-W	80-W	WSU	108	0
G 705	11/18/79	13.8	17.1	-3.3	7-N	10-N	80-W	81-W	WSU	87	1
G 698	11/10/79	12.2	16.6	-4.4	8-N	9-N	78-W	79-W	WSU	118	0
G 694	11/09/79	3.1	16.6	-13.5	9-N	8-N	79-W	79-W	WSU	107	1
G 695	11/09/79	6.1	16.6	-10.5	9-N	9-N	79-W	80-W	WSU	112	0
G 692	11/09/79	9.1	16.6	-7.5	9-N	9-N	79-W	79-W	WSU	90	0
G 707	11/18/79	13.7	16.2	-2.5	10-N	13-N	81-W	82-W	WSU	100	3
G 701	11/14/79	16.8	16.3	.5	12-N	15-N	79-W	79-W	WSU	104	0
G 702	11/14/79	19.1	16.3	2.8	14-N	12-N	79-W	79-W	WSU	62	0
G 693	11/07/79	15.2	16.2	-1.0	15-N	12-N	83-W	82-W	WSU	116	0
G 706	11/18/79	13.7	15.1	-1.4	24-N	26-N	88-W	90-W	WSU	103	1
G 688	11/06/79	18.0	17.4	.6	24-N	27-N	94-W	94-W	WSU	88	2
G 691	11/07/79	15.2	14.6	.6	27-N	25-N	92-W	89-W	WSU	96	0
G 663	10/10/79	3.1	15.3	-12.2	28-N	28-N	96-W	96-W	WSU	106	0

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 664	10/10/79	9.1	15.3	-6.2	28-N	28-N	95-W	95-W	WSU	104	1
G 666	10/10/79	15.2	15.3	-.1	28-N	29-N	96-W	95-W	WSU	83	3
G 665	10/10/79	13.7	15.3	-1.6	29-N	28-N	95-W	96-W	WSU	108	1
G 667	10/11/79	16.8	14.4	2.4	36-N	39-N	93-W	93-W	WSU	86	0
G 669	10/15/79	15.3	10.9	4.4	37-N	39-N	107-W	109-W	WSU	87	0
G 676	10/22/79	13.7	12.3	1.4	39-N	37-N	107-W	104-W	WSU	104	1
G 668	10/11/79	19.2	14.4	4.8	39-N	36-N	93-W	93-W	WSU	26	1
G 686	10/22/79	13.7	12.2	1.5	42-N	40-N	112-W	108-W	WSU	105	0
G 629	11/07/78	13.7	12.2	1.5	42-N	40-N	111-W	108-W	WSU	84	0
G 628	11/07/78	13.7	13.7	0	45-N	44-N	117-W	114-W	WSU	97	0
G 685	10/22/79	13.7	13.7	0	45-N	44-N	118-W	115-W	WSU	94	0
G 671	10/16/79	13.7	10.3	3.4	47-N	49-N	124-W	126-W	WSU	90	1
G 684	10/21/79	13.7	10.0	3.7	52-N	50-N	131-W	128-W	WSU	104	2
G 672	10/16/79	13.7	10.8	2.9	57-N	59-N	139-W	143-W	WSU	61	0
G 673	10/17/79	12.2	10.3	1.9	71-N	74-N	148-W	147-W	WSU	103	0
G 674	10/17/79	17.0	10.3	6.7	75-N	71-N	148-W	147-W	WSU	30	0
G 764	04/16/80	16.8	17.1	-.3	2-N	6-N	80-W	80-W	WSU	88	6
G 762	04/16/80	15.2	17.1	-1.9	6-N	2-N	75-W	80-W	WSU	83	5
G 753	04/16/80	18.3	17.1	1.2	6-N	3-N	79-W	80-W	WSU	76	4
G 767	04/17/80	3.1	17.1	-14.0	7-N	7-N	80-W	80-W	WSU	108	7
G 766	04/17/80	6.1	17.1	-11.0	7-N	7-N	80-W	81-W	WSU	110	2
G 768	04/17/80	12.2	17.1	-4.9	7-N	7-N	80-W	81-W	WSU	97	2
G 771	04/18/80	13.7	17.2	-3.5	7-N	9-N	79-W	80-W	WSU	92	1
G 765	04/17/80	9.1	17.1	-8.0	8-N	6-N	80-W	80-W	WSU	83	0
G 769	04/18/80	13.7	17.2	-3.5	12-N	15-N	81-W	83-W	WSU	86	2
G 759	04/15/80	16.8	17.2	-.4	12-N	15-N	79-W	79-W	WSU	78	2
G 755	04/14/80	15.2	17.7	-2.5	14-N	12-N	82-W	82-W	WSU	83	1
G 760	04/15/80	19.2	17.2	2.0	14-N	12-N	79-W	80-W	WSU	76	4
G 758	04/14/80	15.2	18.0	-2.8	15-N	19-N	83-W	82-W	WSU	86	13
G 761	04/15/80	19.2	17.2	2.0	15-N	12-N	79-W	80-W	WSU	58	4
G 770	04/18/80	13.7	12.2	1.5	24-N	26-N	88-W	89-W	WSU	93	2
G 751	04/09/80	18.3	16.8	1.5	24-N	27-N	94-W	94-W	WSU	67	0
G 752	04/09/80	19.2	16.8	2.4	24-N	27-N	94-W	94-W	WSU	39	0
G 757	04/14/80	15.2	17.4	-2.2	27-N	25-N	92-W	89-W	WSU	77	0
G 750	04/09/80	16.8	16.8	0	27-N	24-N	94-W	94-W	WSU	66	0
G 785	05/09/80	13.7	11.9	1.8	36-N	34-N	104-W	101-W	WSU	99	21
G 754	04/10/80	16.8	11.0	5.8	36-N	39-N	93-W	93-W	WSU	70	0
G 774	04/22/80	15.2	11.7	3.5	37-N	39-N	104-W	108-W	WSU	70	2
G 756	04/10/80	19.2	11.0	8.2	39-N	36-N	94-W	94-W	WSU	54	1
G 787	05/09/80	13.7	9.8	3.9	42-N	40-N	112-W	109-W	WSU	90	1
G 786	05/09/80	13.7	9.5	4.2	45-N	43-N	118-W	114-W	WSU	69	5
G 773	04/23/80	13.7	11.0	2.7	47-N	50-N	124-W	127-W	WSU	70	1
G 775	04/22/80	15.2	10.9	4.3	47-N	49-N	121-W	125-W	WSU	61	0

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 784	05/08/80	19.2	10.4	8.8	50-N	47-N	129-W	124-W	WSU	43	2
G 783	05/08/80	16.8	10.0	6.8	52-N	49-N	138-W	135-W	WSU	53	0
G 777	04/23/80	13.7	9.6	4.1	57-N	59-N	140-W	145-W	WSU	50	0
G 781	05/08/80	16.8	9.1	7.7	60-N	57-N	146-W	142-W	WSU	51	1
G 778	04/24/80	12.2	8.7	3.5	70-N	74-N	148-W	148-W	WSU	65	0
G 772	04/25/80	15.2	9.1	6.1	71-N	75-N	150-W	149-W	WSU	23	0
G 780	04/24/80	16.8	8.7	8.1	75-N	71-N	148-W	148-W	WSU	39	0
G 782	04/25/80	18.3	9.1	9.2	75-N	71-N	149-W	149-W	WSU	20	1
G 895	07/31/80	18.3	16.5	1.8	2-N	6-N	80-W	80-W	OGC	65	0
G 889	07/31/80	16.0	16.5	-5	6-N	2-N	80-W	80-W	OGC	83	1
G 863	07/29/80	9.2	16.5	-7.3	7-N	7-N	79-W	79-W	OGC	99	1
G 899	08/01/80	15.3	16.5	-1.2	7-N	10-N	80-W	81-W	OGC	90	1
G 892	07/29/80	6.1	16.5	-10.4	8-N	8-N	79-W	79-W	OGC	115	0
G 888	07/29/80	12.2	16.5	-4.3	8-N	7-N	79-W	79-W	OGC	109	1
G 866	07/29/80	3.1	16.5	-13.4	9-N	9-N	79-W	79-W	OGC	109	1
G 896	08/01/80	15.3	16.5	-1.2	12-N	15-N	82-W	83-W	OGC	104	1
G 897	07/30/80	16.8	16.5	.3	12-N	15-N	79-W	79-W	OGC	89	0
G 851	07/28/80	15.3	16.5	-1.2	15-N	12-N	83-W	81-W	OGC	98	0
G 886	07/30/80	19.2	16.5	2.7	15-N	12-N	79-W	79-W	OGC	51	1
G 900	08/01/80	19.2	15.0	4.2	24-N	27-N	88-W	92-W	OGC	50	1
G 861	07/25/80	18.9	15.1	3.8	25-N	28-N	94-W	94-W	OGC	44	1
G 854	07/28/80	15.3	15.0	.3	27-N	25-N	92-W	89-W	OGC	90	0
G 855	07/25/80	16.7	15.0	1.7	27-N	24-N	94-W	94-W	OGC	81	2
G 853	07/25/80	18.1	15.0	3.1	27-N	24-N	94-W	94-W	OGC	53	1
G 865	07/23/80	3.1	15.5	-12.4	29-N	30-N	95-W	94-W	OGC	88	1
G 868	07/23/80	9.2	15.5	-6.3	29-N	30-N	94-W	94-W	OGC	93	1
G 860	07/23/80	13.7	14.0	-.3	29-N	29-N	95-W	94-W	OGC	100	1
G 850	08/05/80	15.3	13.7	1.6	37-N	39-N	105-W	108-W	OGC	89	0
G 857	08/05/80	15.3	10.1	5.2	45-N	47-N	116-W	120-W	OGC	64	0
G 875	08/11/80	19.2	10.4	8.8	50-N	47-N	128-W	125-W	OGC	26	0
G 880	08/10/80	15.3	10.7	4.6	51-N	48-N	152-W	152-W	OGC	65	0
G 869	08/11/80	16.8	10.4	6.4	52-N	48-N	138-W	135-W	OGC	54	1
G 874	08/10/80	19.1	10.4	8.7	55-N	58-N	152-W	152-W	OGC	24	0
G 867	08/06/80	13.7	11.0	2.7	57-N	59-N	140-W	145-W	OGC	106	0
G 873	08/10/80	15.3	10.4	4.9	58-N	55-N	152-W	152-W	OGC	60	0
G 882	08/11/80	16.8	11.3	5.5	60-N	57-N	146-W	142-W	OGC	46	1
G 881	08/07/80	12.2	9.8	2.4	71-N	75-N	148-W	148-W	OGC	42	0
G 871	08/09/80	15.3	10.1	5.2	71-N	75-N	148-W	148-W	OGC	66	1
G 870	08/07/80	16.8	9.5	7.3	75-N	71-N	149-W	148-W	OGC	91	0
G 876	08/09/80	18.2	10.1	8.1	75-N	71-N	148-W	148-W	OGC	27	0
G 914	10/25/80	15.3	17.0	-1.7	0-S	3-S	80-W	80-W	OGC	99	0
G 924	10/24/80	19.2	16.2	3.0	3-N	6-N	80-W	80-W	OGC	53	1
G 913	10/25/80	18.3	17.0	1.3	3-S	0-S	80-W	80-W	OGC	84	0

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 952	10/24/80	19.2	16.8	2.4	3-S	0-S	80-W	80-W	OGC	63	1
G 936	10/17/80	12.2	16.5	-4.3	6-N	7-N	81-W	80-W	OGC	113	0
G 906	10/18/80	16.8	17.0	-.2	6-N	3-N	79-W	80-W	OGC	103	0
G 928	10/24/80	16.8	17.2	-.4	6-S	3-S	79-W	80-W	OGC	92	2
G 907	10/25/80	18.3	17.4	.9	6-S	3-S	79-W	80-W	OGC	73	0
G 912	10/18/80	19.2	17.0	2.2	6-S	9-S	79-W	78-W	OGC	51	2
G 911	10/26/80	15.3	17.1	-1.8	9-N	12-N	81-W	82-W	OGC	116	0
G 943	10/17/80	18.3	16.5	1.8	10-N	7-N	81-W	81-W	OGC	54	1
G 910	10/18/80	19.5	17.0	2.5	12-S	15-S	77-W	77-W	OGC	37	0
G 933	10/24/80	9.2	17.4	-8.2	13-S	15-S	77-W	77-W	OGC	109	1
G 947	10/17/80	18.3	16.5	1.8	19-N	16-N	84-W	83-W	OGC	78	0
G 937	10/16/80	18.9	16.1	2.8	19-N	22-N	94-W	94-W	OGC	42	2
G 946	10/17/80	15.3	16.5	-1.2	21-N	19-N	86-W	85-W	OGC	98	2
G 935	10/16/80	16.7	16.1	.6	22-N	19-N	95-W	95-W	OGC	98	2
G 901	10/26/80	18.3	15.7	2.6	24-N	27-N	87-W	92-W	OGC	60	0
G 909	10/19/80	16.8	17.4	-.6	24-S	27-S	73-W	73-W	OGC	79	1
G 923	10/23/80	19.7	15.6	4.1	24-S	21-S	73-W	74-W	OGC	42	0
G 932	10/15/80	16.8	15.6	1.2	27-N	30-N	93-W	93-W	OGC	92	0
G 921	10/16/80	16.8	15.9	.9	27-N	24-N	95-W	95-W	OGC	88	1
G 939	10/15/80	19.2	15.9	3.3	27-N	30-N	93-W	93-W	OGC	61	0
G 950	10/15/80	9.2	15.5	-6.3	30-N	27-N	93-W	93-W	OGC	111	2
G 931	10/15/80	18.3	15.6	2.7	30-N	27-N	93-W	93-W	OGC	63	1
G 905	10/19/80	16.8	11.9	4.9	30-S	33-S	67-W	61-W	OGC	64	0
G 940	10/23/80	15.4	11.2	4.2	32-S	31-S	63-W	65-W	OGC	90	2
G 938	10/23/80	13.9	11.1	2.8	33-S	33-S	59-W	61-W	OGC	90	0
G 904	10/19/80	9.5	11.9	-2.4	34-S	35-S	60-W	57-W	OGC	104	2
G 929	10/23/80	12.3	11.1	1.2	34-S	33-S	58-W	59-W	OGC	97	1
G 941	10/20/80	10.7	11.0	-.3	36-S	39-S	57-W	58-W	OGC	95	0
G 927	10/21/80	15.3	8.8	6.5	39-S	42-S	58-W	59-W	OGC	76	2
G 949	10/20/80	13.7	9.5	4.2	42-S	39-S	59-W	58-W	OGC	92	2
G 951	10/21/80	18.3	8.8	9.5	42-S	39-S	59-W	58-W	OGC	36	1
G 934	10/21/80	15.3	9.9	5.4	48-S	51-S	58-W	58-W	OGC	74	0
G 944	10/21/80	16.8	9.9	6.9	51-S	48-S	58-W	58-W	OGC	19	1
G 997	04/28/81	15.2	16.6	-1.4	19-N	23-N	94-W	94-W	OGC	96	2
G 994	04/28/81	13.7	16.6	-2.9	22-N	19-N	94-W	94-W	OGC	90	0
G 971	04/09/81	18.3	15.7	2.6	24-N	27-N	94-W	94-W	OGC	81	0
G 972	04/09/81	19.2	15.7	3.5	24-N	27-N	94-W	94-W	OGC	76	0
G 970	04/09/81	16.8	15.7	1.1	27-N	24-N	94-W	94-W	OGC	83	2
G 973	04/09/81	16.8	15.7	1.1	27-N	24-N	94-W	94-W	OGC	90	1
G 996	04/28/81	13.7	15.5	-1.8	28-N	25-N	94-W	94-W	OGC	104	0
G 990	04/27/81	13.7	12.9	.8	36-N	37-N	103-W	103-W	OGC	93	2
G 974	04/21/81	15.2	13.4	1.8	37-N	34-N	105-W	107-W	OGC	71	2
G 991	04/27/81	13.7	12.8	.9	39-N	36-N	107-W	103-W	OGC	98	1

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 975	04/21/81	15.2	12.3	2.9	39-N	40-N	107-W	108-W	OGC	67	1
G 992	04/27/81	13.7	11.7	2.0	42-N	39-N	112-W	107-W	OGC	87	1
G 993	04/27/81	13.7	10.8	2.9	45-N	42-N	117-W	112-W	OGC	84	1
G 977	04/22/81	13.7	12.8	.9	47-N	50-N	124-W	128-W	OGC	78	0
G 976	04/21/81	15.2	11.7	3.5	47-N	50-N	121-W	127-W	OGC	48	0
G 986	04/25/81	6.1	9.0	-2.9	63-N	62-N	155-W	156-W	OGC	102	2
G 983	04/25/81	9.1	9.0	.1	63-N	63-N	156-W	156-W	OGC	86	1
G 981	04/25/81	12.2	8.8	3.4	63-N	63-N	155-W	156-W	OGC	81	0
G 980	04/23/81	16.8	8.6	8.2	75-N	71-N	151-W	149-W	OGC	38	0
G 982	04/24/81	19.2	8.1	11.1	75-N	76-N	148-W	148-W	OGC	18	2
23001	10/14/81	3.1	15.8	-12.7	29-N	29-N	94-W	94-W	OGC	120	0
23002	10/14/81	9.1	15.8	-6.7	29-N	29-N	94-W	94-W	OGC	116	1
23003	10/14/81	12.2	15.8	-3.6	29-N	29-N	94-W	94-W	OGC	115	1
23004	10/14/81	16.8	15.8	1.0	29-N	29-N	94-W	94-W	OGC	96	0
23005	10/14/81	19.2	15.8	3.4	29-N	29-N	94-W	94-W	OGC	79	1
23006	10/15/81	16.8	13.6	3.2	34-N	35-N	93-W	93-W	OGC	96	1
23009	10/15/81	19.2	14.9	4.3	37-N	36-N	93-W	93-W	OGC	70	1
23048	10/21/81	13.7	11.5	2.2	39-N	38-N	108-W	107-W	OGC	74	1
23021	10/16/81	15.2	13.6	1.6	39-N	42-N	108-W	110-W	OGC	78	5
23008	10/15/81	19.2	12.6	6.6	41-N	40-N	93-W	93-W	OGC	64	2
23047	10/21/81	13.7	11.4	2.3	42-N	41-N	118-W	111-W	OGC	54	0
23007	10/15/81	16.8	11.6	5.2	42-N	43-N	94-W	94-W	OGC	96	0
23046	10/21/81	13.7	11.3	2.4	44-N	44-N	115-W	115-W	OGC	58	0
23023	10/17/81	13.7	13.6	.1	48-N	49-N	125-W	125-W	OGC	112	2
23022	10/16/81	15.2	12.0	3.2	48-N	50-N	123-W	128-W	OGC	88	2
23043	10/21/81	16.8	12.7	4.1	48-N	48-N	125-W	125-W	OGC	31	1
23042	10/21/81	16.8	12.4	4.4	51-N	48-N	137-W	135-W	OGC	67	0
23024	10/17/81	13.7	13.0	.7	54-N	53-N	136-W	136-W	OGC	88	0
23041	10/21/81	16.8	12.4	4.4	54-N	52-N	141-W	138-W	OGC	74	0
23034	10/20/81	16.8	11.8	5.0	59-N	59-N	152-W	152-W	OGC	46	0
23035	10/20/81	16.8	11.8	5.0	60-N	62-N	151-W	149-W	OGC	62	1
23027	10/18/81	19.2	9.4	9.8	61-N	58-N	150-W	150-W	OGC	30	1
23033	10/20/81	13.7	11.8	1.9	62-N	60-N	149-W	151-W	OGC	72	0
23036	10/20/81	19.2	11.8	7.4	63-N	61-N	148-W	151-W	OGC	35	0
23032	10/20/81	12.2	11.8	.4	64-N	62-N	148-W	149-W	OGC	43	1
23028	10/19/81	15.2	9.0	6.2	71-N	75-N	148-W	148-W	OGC	88	1
23026	10/18/81	16.8	9.0	7.8	75-N	71-N	149-W	149-W	OGC	74	1
23029	10/19/81	19.2	9.0	10.2	75-N	71-N	150-W	150-W	OGC	26	1
24035	04/21/82	19.2	17.2	2.0	6-N	6-N	79-W	79-W	OGC	59	1
24037	04/22/82	6.1	17.2	-11.1	10-N	11-N	79-W	79-W	OGC	100	2
24038	04/22/82	12.2	17.1	-4.9	10-N	13-N	79-W	79-W	OGC	93	1
24039	04/22/82	19.2	17.1	2.1	12-N	9-N	80-W	80-W	OGC	60	1
24032	04/20/82	19.2	17.1	2.1	13-N	10-N	79-W	80-W	OGC	68	1

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
24021	04/23/82	15.2	17.2	-2.0	19-N	19-N	85-W	85-W	OGC	108	1
24031	04/20/82	19.2	16.9	2.3	19-N	17-N	79-W	79-W	OGC	38	0
24017	04/16/82	18.8	16.0	2.8	22-N	23-N	95-W	95-W	OGC	82	2
24015	04/16/82	16.8	16.0	.8	25-N	25-N	95-W	95-W	OGC	74	2
24011	04/15/82	6.1	14.7	-8.6	29-N	29-N	95-W	95-W	OGC	104	1
24012	04/15/82	12.2	14.7	-2.5	29-N	29-N	95-W	95-W	OGC	110	1
24013	04/15/82	16.8	14.7	2.1	29-N	29-N	94-W	95-W	OGC	58	1
24022	04/27/82	15.2	13.1	2.1	36-N	36-N	104-W	104-W	OGC	83	1
24055	05/07/82	15.2	11.0	4.2	39-N	39-N	108-W	108-W	OGC	84	1
24054	05/05/82	13.7	10.7	3.0	41-N	41-N	111-W	110-W	OGC	88	1
24059	05/07/82	19.2	10.7	8.5	41-N	41-N	109-W	109-W	OGC	42	1
24053	05/05/82	13.7	10.7	3.0	42-N	41-N	112-W	111-W	OGC	86	2
24056	05/07/82	16.8	10.4	6.4	43-N	43-N	108-W	108-W	OGC	43	0
24057	05/07/82	16.8	10.4	6.4	44-N	44-N	108-W	108-W	OGC	38	0
24023	04/27/82	15.2	12.4	2.8	45-N	45-N	118-W	118-W	OGC	86	0
24058	05/07/82	18.3	10.6	7.7	45-N	45-N	109-W	109-W	OGC	52	0
24052	05/04/82	19.2	11.6	7.6	47-N	50-N	131-W	130-W	OGC	35	0
24025	04/29/82	13.7	10.7	3.0	48-N	51-N	125-W	130-W	OGC	96	0
24026	04/28/82	13.7	8.8	4.9	54-N	57-N	135-W	139-W	OGC	65	1
24051	05/04/82	16.8	11.2	5.6	54-N	51-N	139-W	137-W	OGC	66	2
24046	05/03/82	6.1	9.2	-3.1	61-N	61-N	149-W	149-W	OGC	101	1
24045	05/02/82	19.2	9.5	9.7	61-N	58-N	150-W	150-W	OGC	32	0
24047	05/03/82	10.7	8.9	1.8	62-N	62-N	149-W	149-W	OGC	42	2
24048	05/03/82	12.2	8.9	3.3	62-N	62-N	149-W	149-W	OGC	75	1
24044	05/02/82	16.8	8.9	7.9	68-N	65-N	148-W	148-W	OGC	22	1
24042	05/02/82	12.2	9.5	2.7	71-N	75-N	149-W	148-W	OGC	77	1
24027	05/01/82	15.2	10.0	5.2	71-N	71-N	148-W	148-W	OGC	28	1
24028	05/01/82	18.7	9.8	8.9	75-N	75-N	148-W	148-W	OGC	26	0
25025	07/23/82	13.7	15.3	-1.6	8-N	8-N	80-W	80-W	OGC	116	1
25026	07/23/82	13.7	15.3	-1.6	10-N	10-N	80-W	80-W	OGC	116	1
25018	07/20/82	16.8	15.2	1.6	10-N	10-N	79-W	79-W	OGC	92	1
25027	07/23/82	13.7	14.9	-1.2	13-N	16-N	82-W	83-W	OGC	116	2
25028	07/23/82	13.7	14.7	-1.0	16-N	19-N	83-W	83-W	OGC	114	1
25017	07/19/82	15.2	14.4	.8	22-N	22-N	88-W	88-W	OGC	112	1
25015	07/16/82	16.8	15.5	1.3	22-N	19-N	94-W	94-W	OGC	98	1
25011	07/15/82	12.2	15.0	-2.8	30-N	30-N	95-W	95-W	OGC	104	1
25012	07/15/82	13.7	15.0	-1.3	30-N	30-N	95-W	95-W	OGC	116	1
25013	07/15/82	16.8	15.0	1.8	30-N	30-N	95-W	95-W	OGC	82	1
25059	08/03/82	19.3	15.0	4.3	33-N	33-N	93-W	93-W	OGC	70	1
25056	08/02/82	13.7	11.8	1.9	42-N	42-N	112-W	112-W	OGC	112	1
25031	07/27/82	15.2	15.1	.1	42-N	42-N	111-W	111-W	OGC	96	1
25058	08/03/82	19.3	11.2	8.1	45-N	45-N	93-W	93-W	OGC	46	0
25055	08/01/82	18.8	10.4	8.4	47-N	48-N	131-W	131-W	OGC	51	0

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
25054	08/01/82	16.8	10.4	6.4	48-N	48-N	135-W	135-W	OGC	94	0
25053	08/01/82	16.8	10.6	6.2	53-N	52-N	138-W	138-W	OGC	88	1
25033	07/28/82	13.7	11.8	1.9	54-N	54-N	135-W	135-W	OGC	83	1
25052	08/01/82	16.8	10.6	6.2	54-N	53-N	139-W	139-W	OGC	88	0
25041	07/30/82	15.2	11.3	3.9	58-N	59-N	151-W	151-W	OGC	98	0
25045	07/31/82	6.1	11.3	-5.2	60-N	60-N	151-W	151-W	OGC	121	2
25046	07/31/82	9.1	11.3	-2.2	60-N	60-N	153-W	153-W	OGC	114	1
25051	08/01/82	16.8	10.2	6.6	60-N	59-N	146-W	146-W	OGC	78	2
25048	07/31/82	16.8	11.3	5.5	61-N	59-N	152-W	152-W	OGC	71	0
25039	07/29/82	18.6	12.1	6.5	61-N	60-N	150-W	150-W	OGC	34	0
25035	07/29/82	12.2	10.9	1.3	71-N	71-N	148-W	148-W	OGC	98	2
25042	07/30/82	15.2	10.1	5.1	71-N	72-N	144-W	144-W	OGC	80	1
25038	07/29/82	16.8	10.9	5.9	71-N	69-N	150-W	150-W	OGC	68	1
25036	07/29/82	12.2	10.9	1.3	72-N	72-N	148-W	148-W	OGC	102	1
25037	07/29/82	16.8	10.7	6.1	75-N	74-N	150-W	150-W	OGC	67	0
25043	07/30/82	18.3	9.8	8.5	75-N	74-N	148-W	148-W	OGC	40	2
26058	10/29/82	18.3	17.2	1.1	0	0	79-W	79-W	OGC	91	1
26054	10/27/82	19.9	16.2	3.7	0	0	79-W	79-W	OGC	78	1
26051	10/27/82	16.8	16.2	.6	3-N	3-N	79-W	79-W	OGC	106	1
26055	10/29/82	15.2	17.2	-2.0	3-S	3-S	79-W	79-W	OGC	104	1
26037	10/26/82	16.8	15.6	1.2	7-N	7-N	79-W	79-W	OGC	91	1
26056	10/29/82	15.2	17.2	-2.0	7-S	7-S	78-W	78-W	OGC	100	1
26052	10/27/82	16.8	16.2	.6	7-S	7-S	78-W	78-W	OGC	108	0
26038	10/26/82	19.2	15.6	3.6	10-N	10-N	79-W	79-W	OGC	83	1
26057	10/29/82	18.3	17.4	.9	10-S	10-S	77-W	77-W	OGC	80	0
26053	10/27/82	19.2	16.2	3.0	10-S	10-S	77-W	77-W	OGC	82	1
26059	10/30/82	13.7	16.8	-3.1	13-N	13-N	82-W	82-W	OGC	108	1
26033	10/22/82	18.7	16.0	2.7	19-N	19-N	93-W	93-W	OGC	59	1
26011	10/13/82	6.1	15.7	-9.6	29-N	29-N	93-W	93-W	OGC	123	1
26012	10/13/82	12.5	15.7	-3.2	29-N	29-N	91-W	91-W	OGC	100	0
26014	10/13/82	16.8	15.7	1.1	29-N	29-N	93-W	93-W	OGC	97	2
26016	10/14/82	16.8	11.5	5.3	34-N	38-N	92-W	93-W	OGC	92	1
26021	10/15/82	15.2	13.2	2.0	36-N	36-N	104-W	104-W	OGC	100	1
26019	10/14/82	19.2	11.5	7.7	37-N	33-N	93-W	93-W	OGC	65	1
26022	10/15/82	15.2	13.6	1.6	42-N	42-N	112-W	112-W	OGC	104	2
26017	10/14/82	16.8	15.0	1.8	42-N	45-N	93-W	93-W	OGC	93	1
26024	10/16/82	13.7	10.0	3.7	45-N	48-N	123-W	124-W	OGC	112	1
26018	10/14/82	19.2	15.0	4.2	45-N	41-N	93-W	93-W	OGC	50	2
26048	10/20/82	15.2	11.1	4.1	50-N	47-N	128-W	123-W	OGC	88	1
26047	10/20/82	16.8	11.5	5.3	54-N	51-N	139-W	136-W	OGC	66	2
26044	10/19/82	6.1	11.3	-5.2	61-N	61-N	150-W	150-W	OGC	88	5
26029	10/17/82	18.7	9.8	8.9	61-N	61-N	150-W	150-W	OGC	18	0
26041	10/18/82	15.2	11.4	3.8	62-N	65-N	150-W	149-W	OGC	86	1

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
26046	10/19/82	19.2	11.3	7.9	62-N	61-N	153-W	152-W	OGC	26	2
26025	10/17/82	12.2	8.6	3.6	65-N	65-N	148-W	148-W	OGC	104	2
26026	10/17/82	12.2	10.3	1.9	71-N	71-N	148-W	148-W	OGC	103	2
26042	10/18/82	15.2	10.2	5.0	71-N	75-N	148-W	140-W	OGC	70	1
26028	10/17/82	16.8	10.2	6.6	73-N	73-N	147-W	147-W	OGC	34	0
26027	10/17/82	16.8	10.1	6.7	75-N	75-N	146-W	146-W	OGC	45	2
26043	10/18/82	18.5	10.2	8.3	75-N	71-N	149-W	148-W	OGC	17	2
28026	09/29/83	19.2	15.0	4.2	19-N	20-N	93-W	94-W	OGC	58	0
28027	09/29/83	19.2	15.0	4.2	20-N	23-N	94-W	94-W	OGC	64	0
28024	09/29/83	16.8	15.0	1.8	22-N	20-N	94-W	94-W	OGC	107	0
28028	09/29/83	19.2	16.0	3.2	23-N	26-N	94-W	94-W	OGC	83	0
28023	09/29/83	16.8	15.5	1.3	26-N	22-N	94-W	94-W	OGC	107	1
28029	09/29/83	19.2	15.8	3.4	26-N	29-N	94-W	93-W	OGC	50	0
28037	09/30/83	16.8	14.9	1.9	28-N	29-N	96-W	94-W	OGC	106	1
28022	09/29/83	16.8	15.6	1.2	28-N	27-N	94-W	94-W	OGC	104	0
28039	09/30/83	19.2	14.9	4.3	28-N	29-N	96-W	94-W	OGC	84	1
28031	09/30/83	6.1	14.9	-8.8	29-N	29-N	95-W	95-W	OGC	123	1
28032	09/30/83	9.1	14.9	-5.8	29-N	29-N	95-W	95-W	OGC	116	0
28033	09/30/83	12.2	14.9	-2.7	29-N	29-N	94-W	95-W	OGC	114	0
28034	09/30/83	13.7	14.9	-1.2	29-N	29-N	95-W	94-W	OGC	108	1
28036	09/30/83	15.2	14.9	.3	29-N	28-N	95-W	96-W	OGC	110	1
28035	09/30/83	15.2	14.9	.3	29-N	29-N	94-W	95-W	OGC	111	0
28021	09/29/83	16.8	15.5	1.3	29-N	28-N	93-W	94-W	OGC	106	0
28038	09/30/83	18.3	14.9	3.4	29-N	29-N	93-W	95-W	OGC	81	1
28011	09/28/83	16.8	15.3	1.5	30-N	31-N	93-W	93-W	OGC	100	0
28019	09/28/83	19.2	15.2	4.0	33-N	33-N	93-W	93-W	OGC	62	0
28012	09/28/83	16.8	13.5	3.3	34-N	35-N	93-W	93-W	OGC	108	1
28018	09/28/83	19.2	13.5	5.7	37-N	34-N	93-W	93-W	OGC	56	0
28013	09/28/83	16.8	11.8	5.0	38-N	39-N	93-W	93-W	OGC	88	1
28017	09/28/83	19.2	11.8	7.4	41-N	39-N	92-W	92-W	OGC	63	1
28014	09/28/83	16.8	11.2	5.6	42-N	45-N	93-W	93-W	OGC	101	0
28016	09/28/83	19.2	11.2	8.0	45-N	44-N	92-W	92-W	OGC	70	1
28015	09/28/83	19.2	10.8	8.4	47-N	45-N	92-W	92-W	OGC	62	1
29013	11/30/83	13.7	14.5	- .8	21-N	21-N	92-W	91-W	OGC	113	1
29012	11/30/83	13.7	14.5	- .8	21-N	21-N	94-W	92-W	OGC	113	1
29014	11/30/83	15.2	14.5	.7	21-N	21-N	91-W	91-W	OGC	118	1
29015	11/30/83	16.8	14.5	2.3	21-N	21-N	91-W	93-W	OGC	115	1
29016	11/30/83	19.8	14.6	5.2	21-N	24-N	93-W	93-W	OGC	70	0
29011	11/30/83	15.2	14.8	.4	27-N	21-N	94-W	94-W	OGC	115	1
29052	11/23/83	18.3	13.1	5.2	27-N	22-N	152-W	157-W	OGC	74	0
29017	11/30/83	19.8	14.0	5.8	27-N	27-N	94-W	94-W	OGC	76	0
29018	11/30/83	19.8	14.0	5.8	27-N	30-N	94-W	93-W	OGC	58	2
29043	11/16/83	15.2	13.4	1.8	30-N	33-N	96-W	99-W	OGC	106	1

TABLE 3 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
29019	11/30/83	16.8	14.5	2.3	30-N	30-N	96-W	96-W	OGC	104	0
29044	11/16/83	15.2	12.2	3.0	35-N	35-N	101-W	101-W	OGC	108	1
29045	11/16/83	15.2	12.2	3.0	39-N	41-N	106-W	109-W	OGC	107	0
29046	11/16/83	15.2	10.0	5.2	45-N	45-N	117-W	117-W	OGC	100	1
29047	11/17/83	9.1	10.2	-1.1	46-N	45-N	122-W	123-W	OGC	113	0
29048	11/17/83	13.7	10.0	3.7	47-N	49-N	124-W	125-W	OGC	101	1
29039	11/22/83	16.8	10.0	6.8	51-N	50-N	130-W	130-W	OGC	80	0
29049	11/17/83	13.7	10.0	3.7	53-N	55-N	135-W	139-W	OGC	85	1
29035	11/21/83	19.2	10.9	8.3	53-N	56-N	150-W	150-W	OGC	66	0
29036	11/21/83	19.2	10.5	8.7	56-N	59-N	150-W	150-W	OGC	64	0
29037	11/21/83	16.8	10.0	6.8	59-N	61-N	150-W	149-W	OGC	70	1
29034	11/21/83	15.2	10.0	5.2	60-N	59-N	150-W	150-W	OGC	91	0
29031	11/20/83	3.1	10.3	-7.2	61-N	62-N	148-W	147-W	OGC	127	1
29038	11/21/83	13.7	10.0	3.7	61-N	61-N	149-W	149-W	OGC	108	1
29032	11/20/83	6.1	10.3	-4.2	62-N	62-N	146-W	145-W	OGC	124	1
29021	11/18/83	12.2	8.0	4.2	62-N	64-N	150-W	149-W	OGC	100	1
29025	11/19/83	15.2	8.1	7.1	63-N	65-N	149-W	149-W	OGC	55	0
29024	11/18/83	16.8	7.8	9.0	65-N	62-N	149-W	149-W	OGC	59	0
29029	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	30	0
29028	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	30	0
29022	11/18/83	12.2	8.0	4.2	68-N	71-N	149-W	148-W	OGC	104	0
29023	11/18/83	12.2	8.0	4.2	71-N	75-N	148-W	148-W	OGC	104	0

TABLE 4

CONCENTRATION OF N₂O IN PROJECT AIRSTREAM SAMPLES
(nL L⁻¹)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 130	05/27/76	19.2	16.1	3.1	2-N	6-N	80-W	80-W	WSU	273	0
G 155	05/27/76	19.2	16.2	3.0	2-N	6-N	80-W	80-W	WSU	275	3
G 141	05/26/76	15.2	16.2	-1.0	7-S	10-S	79-W	78-W	WSU	293	1
G 145	05/26/76	18.3	16.2	2.1	10-S	7-S	78-W	79-W	WSU	286	2
G 154	05/27/76	19.2	16.2	3.0	10-S	6-S	78-W	79-W	WSU	274	4
G 150	05/28/76	15.2	16.2	-1.0	12-N	15-N	81-W	83-W	WSU	291	1
G 143	05/25/76	16.8	16.2	.6	12-N	15-N	79-W	79-W	WSU	291	5
G 144	05/24/76	18.3	16.2	2.1	15-N	12-N	83-W	81-W	WSU	268	2
G 146	05/25/76	19.2	16.2	3.0	15-N	12-N	79-W	79-W	WSU	269	2
G 153	05/28/76	15.2	15.5	-.3	24-N	27-N	90-W	93-W	WSU	259	4
G 159	06/09/76	19.2	15.6	3.6	24-N	26-N	95-W	95-W	WSU	237	4
G 156	05/24/76	15.2	14.0	1.2	27-N	24-N	93-W	90-W	WSU	291	0
G 158	06/09/76	16.8	15.6	1.2	27-N	24-N	95-W	95-W	WSU	287	4
G 151	06/08/76	15.2	12.6	2.6	36-N	39-N	95-W	95-W	WSU	275	2
G 131	06/01/76	16.8	13.6	3.2	36-N	39-N	103-W	106-W	WSU	240	0
G 149	06/07/76	13.7	14.2	-.5	39-N	36-N	108-W	104-W	WSU	282	8
G 147	06/08/76	19.2	12.6	6.6	39-N	36-N	95-W	95-W	WSU	222	0
G 133	06/02/76	13.7	8.6	5.1	47-N	50-N	122-W	127-W	WSU	269	2
G 157	06/06/76	19.2	9.7	9.5	47-N	50-N	129-W	129-W	WSU	235	2
G 132	06/01/76	16.8	8.3	8.5	48-N	50-N	123-W	128-W	WSU	236	6
G 152	06/06/76	15.2	9.7	5.5	52-N	48-N	135-W	131-W	WSU	257	4
G 140	06/05/76	19.2	10.6	8.6	58-N	61-N	142-W	147-W	WSU	198	0
G 134	06/02/76	13.7	9.7	4.0	59-N	61-N	141-W	148-W	WSU	269	5
G 148	06/06/76	15.2	11.0	4.2	61-N	58-N	148-W	143-W	WSU	287	4
G 139	06/05/76	16.8	10.6	6.2	61-N	58-N	150-W	142-W	WSU	255	2
G 135	06/03/76	13.3	10.2	3.1	71-N	74-N	148-W	149-W	WSU	269	0
G 137	06/04/76	15.2	10.5	4.7	71-N	75-N	148-W	148-W	WSU	250	0
G 136	06/03/76	16.8	10.2	6.6	75-N	71-N	149-W	148-W	WSU	219	0
G 138	06/04/76	18.3	10.5	7.8	75-N	71-N	149-W	148-W	WSU	194	4
G 170	08/20/76	18.3	15.7	2.6	2-N	6-N	80-W	80-W	WSU	276	0
G 168	08/21/76	19.2	15.1	4.1	2-N	6-N	80-W	80-W	WSU	276	2
G 178	08/20/76	15.2	15.3	-.1	6-N	2-N	80-W	80-W	WSU	290	2
G 177	08/21/76	16.8	15.1	1.7	6-N	2-N	80-W	80-W	WSU	292	0
G 173	08/20/76	15.2	15.7	-.5	7-S	10-S	79-W	78-W	WSU	291	3
G 175	08/21/76	16.8	15.7	1.1	7-S	10-S	78-W	78-W	WSU	288	1
G 169	08/20/76	18.3	15.8	2.5	10-S	7-S	78-W	79-W	WSU	280	4
G 172	08/21/76	19.2	15.7	3.5	10-S	7-S	78-W	79-W	WSU	275	2
G 192	08/22/76	15.2	15.1	.1	12-N	15-N	81-W	83-W	WSU	287	2
G 180	08/18/76	16.9	15.8	1.1	12-N	15-N	79-W	79-W	WSU	288	3
G 181	08/17/76	18.3	15.6	2.7	15-N	12-N	93-W	81-W	WSU	279	4

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 171	08/18/76	19.2	15.8	3.4	15-N	12-N	79-W	79-W	WSU	269	2
G 167	08/13/76	19.2	15.8	3.4	18-N	21-N	86-W	86-W	WSU	269	5
G 161	08/12/76	19.2	15.9	3.3	20-N	24-N	95-W	96-W	WSU	259	5
G 163	08/12/76	16.8	15.9	.9	23-N	20-N	96-W	95-W	WSU	283	2
G 174	08/13/76	15.2	16.0	-.8	24-N	21-N	87-W	86-W	WSU	275	4
G 191	08/22/76	18.3	14.7	3.6	24-N	27-N	87-W	90-W	WSU	273	2
G 176	08/13/76	19.2	16.0	3.2	24-N	27-N	87-W	89-W	WSU	250	1
G 162	08/12/76	19.2	15.9	3.3	24-N	27-N	96-W	95-W	WSU	251	4
G 179	08/17/76	15.2	15.5	-.3	27-N	24-N	93-W	90-W	WSU	289	0
G 182	08/13/76	16.8	16.0	.8	27-N	24-N	90-W	82-W	WSU	280	1
G 160	08/12/76	16.8	15.9	.9	27-N	23-N	95-W	96-W	WSU	286	2
G 188	08/23/76	15.2	15.1	.1	36-N	39-N	97-W	97-W	WSU	284	0
G 183	08/25/76	16.8	15.9	.9	36-N	39-N	106-W	110-W	WSU	263	21
G 164	08/31/76	13.7	16.7	-3.0	39-N	36-N	107-W	103-W	WSU	288	2
G 187	08/23/76	19.2	15.1	4.1	39-N	36-N	96-W	96-W	WSU	228	1
G 194	08/26/76	13.7	12.0	1.7	47-N	50-N	124-W	127-W	WSU	289	2
G 190	08/25/76	16.8	9.9	6.9	48-N	50-N	123-W	128-W	WSU	265	3
G 198	08/25/76	19.2	10.0	9.2	50-N	47-N	129-W	125-W	WSU	226	1
G 195	08/25/76	19.2	10.0	9.2	50-N	47-N	129-W	125-W	WSU	230	2
G 166	08/30/76	15.2	11.5	3.7	52-N	49-N	132-W	127-W	WSU	282	3
G 193	08/29/76	18.9	9.7	9.2	58-N	61-N	142-W	147-W	WSU	209	2
G 189	08/26/76	13.7	10.2	3.5	59-N	61-N	143-W	147-W	WSU	290	6
G 165	08/30/76	15.2	10.0	5.2	61-N	58-N	145-W	139-W	WSU	265	2
G 186	08/29/76	16.8	9.7	7.1	61-N	58-N	147-W	147-W	WSU	250	0
G 197	08/21/76	12.5	10.0	2.5	71-N	74-N	148-W	148-W	WSU	286	2
G 196	08/28/76	15.2	11.1	4.1	71-N	75-N	148-W	148-W	WSU	276	2
G 185	08/27/76	16.8	10.9	5.9	75-N	72-N	149-W	149-W	WSU	258	1
G 184	08/28/76	18.7	11.1	7.6	75-N	71-N	147-W	148-W	WSU	207	0
G 210	11/14/76	18.3	17.1	1.2	2-N	6-N	80-W	80-W	WSU	287	4
G 218	11/15/76	19.2	16.9	2.3	2-N	6-N	80-W	80-W	WSU	277	2
G 235	11/15/76	19.2	17.0	2.2	2-N	6-N	80-W	80-W	WSU	274	1
G 211	11/14/76	15.2	17.1	-1.9	6-N	2-N	80-W	80-W	WSU	293	2
G 213	11/15/76	16.8	17.0	-.2	6-N	2-N	80-W	80-W	WSU	291	0
G 220	11/14/76	15.2	17.3	-2.1	7-S	10-S	78-W	78-W	WSU	288	5
G 214	11/15/76	16.8	16.5	.3	7-S	10-S	80-W	78-W	WSU	296	0
G 221	11/14/76	18.3	17.3	1.0	10-S	7-S	78-W	79-W	WSU	281	3
G 217	11/15/76	19.2	16.4	2.8	10-S	7-S	78-W	79-W	WSU	283	0
G 200	11/16/76	15.2	16.7	-1.5	12-N	15-N	81-W	83-W	WSU	280	0
G 219	11/13/76	19.2	17.6	1.6	12-N	15-N	79-W	79-W	WSU	279	1
G 212	11/13/76	16.8	16.8	0	15-N	12-N	79-W	79-W	WSU	297	0
G 203	11/16/76	18.3	15.2	3.1	24-N	27-N	87-W	90-W	WSU	287	2
G 201	11/17/76	19.2	15.3	3.9	24-N	27-N	96-W	95-W	WSU	279	0
G 215	11/11/76	15.2	16.1	-.9	27-N	24-N	90-W	87-W	WSU	291	2

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 205	11/17/76	16.8	15.3	1.5	27-N	24-N	95-W	95-W	WSU	288	1
G 207	10/28/76	15.2	11.8	3.4	36-N	37-N	98-W	98-W	WSU	281	3
G 224	10/30/76	16.8	12.4	4.4	36-N	39-N	105-W	108-W	WSU	255	1
G 209	10/28/76	15.2	11.9	3.3	37-N	39-N	98-W	98-W	WSU	278	0
G 204	10/28/76	19.2	11.9	7.3	38-N	37-N	98-W	98-W	WSU	229	0
G 206	11/08/76	13.7	12.8	.9	39-N	36-N	106-W	103-W	WSU	289	0
G 208	10/28/76	19.2	11.9	7.3	39-N	38-N	98-W	98-W	WSU	226	2
G 229	10/31/76	13.7	11.4	2.3	47-N	50-N	124-W	127-W	WSU	291	0
G 227	10/30/76	16.8	11.3	5.5	48-N	50-N	124-W	128-W	WSU	285	3
G 223	10/30/76	19.2	11.4	7.8	50-N	48-N	128-W	125-W	WSU	233	2
G 199	11/07/76	15.2	11.4	3.8	52-N	49-N	130-W	126-W	WSU	283	2
G 231	11/06/76	19.2	8.6	10.6	58-N	61-N	154-W	154-W	WSU	259	2
G 226	10/31/76	13.7	8.2	5.5	59-N	60-N	143-W	144-W	WSU	269	0
G 202	11/07/76	15.2	9.7	5.5	61-N	59-N	146-W	140-W	WSU	273	2
G 225	11/06/76	16.8	8.6	8.2	61-N	58-N	154-W	154-W	WSU	258	3
G 222	11/04/76	12.2	9.0	3.2	71-N	74-N	148-W	148-W	WSU	290	2
G 230	11/05/76	15.2	9.7	5.5	71-N	76-N	148-W	147-W	WSU	262	2
G 228	11/04/76	16.8	9.0	7.8	75-N	71-N	147-W	148-W	WSU	224	3
G 232	11/05/76	18.3	9.7	8.6	75-N	71-N	147-W	148-W	WSU	202	2
G 251	03/30/77	18.3	17.7	.6	2-N	6-N	80-W	80-W	WSU	295	3
G 252	03/31/77	19.2	17.7	1.5	2-N	6-N	80-W	80-W	WSU	282	2
G 249	03/31/77	15.2	17.7	-2.5	6-N	3-N	80-W	80-W	WSU	299	0
G 247	03/30/77	16.8	17.7	-.9	6-N	2-S	80-W	80-W	WSU	279	0
G 248	03/31/77	19.2	17.7	1.5	10-S	7-S	78-W	79-W	WSU	283	0
G 262	04/02/77	15.2	16.2	-1.0	12-N	15-N	81-W	83-W	WSU	284	88
G 250	03/30/77	18.3	17.2	1.1	15-N	12-N	83-W	81-W	WSU	272	0
G 253	04/01/77	19.2	16.4	2.8	15-N	12-N	79-W	79-W	WSU	245	2
G 257	03/23/77	19.2	17.0	2.2	24-N	27-N	94-W	94-W	WSU	277	0
G 266	03/23/77	19.2	17.0	2.2	24-N	27-N	94-W	94-W	WSU	268	0
G 260	04/02/77	18.3	17.0	1.3	25-N	27-N	88-W	90-W	WSU	293	0
G 264	03/23/77	16.8	17.0	-.2	27-N	24-N	94-W	94-W	WSU	283	0
G 263	03/24/77	15.2	11.0	4.2	36-N	39-N	96-W	96-W	WSU	291	4
G 258	04/10/77	13.7	13.0	.7	39-N	36-N	107-W	103-W	WSU	284	2
G 256	03/24/77	19.2	11.0	8.2	39-N	36-N	96-W	95-W	WSU	197	2
G 237	04/04/77	19.2	11.7	7.5	49-N	48-N	126-W	124-W	WSU	239	0
G 265	04/09/77	15.2	10.4	4.8	52-N	50-N	132-W	127-W	WSU	255	2
G 261	04/09/77	15.2	9.1	6.1	61-N	60-N	145-W	139-W	WSU	243	1
G 241	04/07/77	16.8	8.8	8.0	61-N	58-N	150-W	150-W	WSU	196	0
G 242	04/06/77	12.2	8.1	4.1	71-N	75-N	148-W	147-W	WSU	240	2
G 244	04/07/77	15.2	7.4	7.8	71-N	75-N	149-W	148-W	WSU	181	1
G 243	04/06/77	16.8	8.1	8.7	75-N	71-N	149-W	148-W	WSU	174	5
G 245	04/07/77	18.3	7.4	10.9	75-N	71-N	149-W	149-W	WSU	187	0
G 290	07/10/77	19.2	16.2	3.0	2-N	6-N	80-W	80-W	WSU	283	2

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 302	07/11/77	3.1	15.3	-12.2	6-N	6-N	81-W	81-W	WSU	295	1
G 295	07/11/77	6.1	15.5	-9.4	6-N	6-N	81-W	81-W	WSU	293	0
G 297	07/11/77	9.1	15.5	-6.4	6-N	6-N	81-W	81-W	WSU	299	0
G 294	07/11/77	12.2	15.5	-3.3	6-N	6-N	81-W	81-W	WSU	295	0
G 279	07/10/77	15.2	16.2	-1.0	6-N	2-N	80-W	80-W	WSU	293	1
G 275	07/10/77	18.3	16.2	2.1	6-N	2-N	80-W	80-W	WSU	288	1
G 300	07/12/77	15.2	15.6	-.4	12-N	15-N	81-W	83-W	WSU	294	1
G 289	07/09/77	16.8	16.2	.6	12-N	15-N	79-W	79-W	WSU	287	1
G 286	07/08/77	18.3	16.2	2.1	15-N	12-N	83-W	81-W	WSU	275	0
G 277	07/09/77	19.2	16.2	3.0	15-N	12-N	79-W	79-W	WSU	274	1
G 287	07/12/77	18.3	15.9	2.4	24-N	27-N	87-W	90-W	WSU	274	2
G 276	07/07/77	19.2	15.2	4.0	24-N	27-N	94-W	94-W	WSU	261	0
G 278	07/22/77	15.2	15.0	1.2	27-N	27-N	95-W	94-W	WSU	290	3
G 301	07/08/77	15.2	13.8	1.4	27-N	24-N	90-W	87-W	WSU	293	1
G 296	07/07/77	16.8	15.2	1.6	27-N	24-N	94-W	94-W	WSU	287	1
G 285	07/22/77	3.1	15.0	-11.9	28-N	28-N	95-W	95-W	WSU	293	1
G 283	07/22/77	13.7	15.0	-1.3	28-N	27-N	95-W	95-W	WSU	293	0
G 282	07/14/77	15.2	15.2	0	36-N	39-N	98-W	98-W	WSU	290	19
G 298	07/14/77	16.8	15.1	1.7	36-N	39-N	106-W	109-W	WSU	283	4
G 281	07/21/77	13.7	15.0	-1.3	39-N	36-N	107-W	104-W	WSU	295	0
G 292	07/14/77	19.2	15.2	4.0	39-N	36-N	96-W	96-W	WSU	255	0
G 384	07/15/77	13.7	12.5	1.2	47-N	51-N	125-W	131-W	WSU	284	3
G 386	07/15/77	13.7	12.5	1.2	48-N	48-N	124-W	125-W	WSU	275	1
G 280	07/14/77	16.8	12.5	4.3	48-N	50-N	124-W	128-W	WSU	253	0
G 284	07/14/77	19.2	12.5	6.7	50-N	47-N	129-W	127-W	WSU	219	1
G 305	07/20/77	15.2	11.2	4.0	52-N	51-N	132-W	129-W	WSU	261	0
G 274	07/19/77	19.2	9.8	9.4	58-N	61-N	148-W	148-W	WSU	202	0
G 379	07/15/77	13.7	10.3	3.4	59-N	62-N	143-W	147-W	WSU	267	2
G 303	07/20/77	15.2	10.6	4.6	60-N	58-N	142-W	139-W	WSU	264	0
G 293	07/18/77	3.1	10.4	-7.3	61-N	61-N	148-W	149-W	WSU	295	0
G 288	07/18/77	6.1	10.4	-4.3	61-N	61-N	148-W	148-W	WSU	293	4
G 299	07/18/77	12.2	10.4	1.8	61-N	62-N	149-W	148-W	WSU	275	1
G 304	07/20/77	15.2	10.6	4.6	61-N	60-N	147-W	142-W	WSU	260	1
G 291	07/19/77	16.8	10.4	6.4	61-N	59-N	148-W	148-W	WSU	252	2
G 381	07/16/77	12.2	10.1	2.1	71-N	74-N	148-W	148-W	WSU	267	3
G 383	07/17/77	15.2	9.5	5.7	71-N	75-N	148-W	147-W	WSU	267	3
G 362	10/15/77	16.8	17.1	-.3	2-N	6-N	80-W	80-W	WSU	292	1
G 356	10/15/77	19.2	17.1	2.1	2-N	6-N	80-W	80-W	WSU	288	0
G 351	10/15/77	15.2	17.1	-1.9	6-N	2-N	80-W	80-W	WSU	298	0
G 346	10/15/77	18.3	17.1	1.2	6-N	2-N	80-W	80-W	WSU	290	0
G 361	10/16/77	3.1	16.3	-13.2	7-N	7-N	81-W	81-W	WSU	295	0
G 347	10/16/77	6.1	16.3	-10.2	7-N	7-N	81-W	82-W	WSU	298	0
G 358	10/16/77	9.1	16.3	-7.2	7-N	7-N	82-W	82-W	WSU	293	0

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 359	10/16/77	12.2	11.3	.9	7-N	6-N	82-W	82-W	WSU	298	0
G 349	10/17/77	13.7	14.6	-.9	7-N	12-N	79-W	80-W	WSU	293	4
G 353	10/17/77	13.7	15.6	-1.9	12-N	15-N	81-W	83-W	WSU	294	1
G 348	10/14/77	16.8	15.2	1.6	12-N	15-N	79-W	79-W	WSU	294	1
G 336	10/13/77	15.2	16.0	-.8	14-N	12-N	82-W	81-W	WSU	295	0
G 343	10/14/77	19.2	15.2	4.0	14-N	11-N	79-W	79-W	WSU	279	0
G 366	10/14/77	19.2	15.2	4.0	14-N	15-N	79-W	79-W	WSU	274	0
G 345	10/14/77	19.2	15.2	4.0	15-N	12-N	79-W	80-W	WSU	282	0
G 357	10/17/77	13.7	15.2	-1.5	24-N	26-N	88-W	91-W	WSU	295	0
G 364	10/27/77	19.2	15.2	4.0	24-N	27-N	94-W	94-W	WSU	263	2
G 355	10/27/77	13.7	15.2	-1.5	27-N	24-N	94-W	94-W	WSU	290	0
G 341	10/13/77	15.2	14.6	.6	27-N	24-N	92-W	88-W	WSU	293	3
G 365	10/29/77	18.3	15.0	3.3	27-N	30-N	94-W	94-W	WSU	268	0
G 335	10/12/77	9.1	15.0	-5.9	28-N	29-N	94-W	93-W	WSU	295	0
G 354	10/12/77	3.1	14.5	-11.4	29-N	28-N	95-W	95-W	WSU	295	0
G 350	10/12/77	13.7	14.5	-.8	29-N	29-N	93-W	94-W	WSU	295	1
G 338	10/12/77	15.2	14.0	1.2	30-N	30-N	94-W	93-W	WSU	295	0
G 342	10/29/77	16.8	15.5	1.3	36-N	39-N	93-W	93-W	WSU	284	6
G 327	10/20/77	15.2	15.4	-.2	37-N	39-N	105-W	109-W	WSU	290	2
G 352	10/20/77	13.7	15.0	-1.3	39-N	36-N	107-W	104-W	WSU	295	0
G 337	10/29/77	19.2	15.5	3.7	39-N	36-N	93-W	93-W	WSU	249	0
G 334	10/21/77	13.7	12.5	1.2	47-N	49-N	124-W	127-W	WSU	295	0
G 329	10/20/77	15.2	12.5	2.7	47-N	48-N	122-W	127-W	WSU	286	4
G 363	10/25/77	19.2	14.3	4.9	47-N	50-N	126-W	128-W	WSU	224	4
G 339	10/25/77	16.8	11.9	4.9	52-N	49-N	132-W	126-W	WSU	243	0
G 328	10/21/77	13.7	9.8	3.9	57-N	59-N	140-W	146-W	WSU	282	1
G 333	10/25/77	16.8	10.7	6.1	60-N	57-N	146-W	139-W	WSU	223	2
G 380	10/22/77	19.2	9.0	10.2	61-N	58-N	150-W	150-W	WSU	186	1
G 332	10/24/77	3.1	10.7	-7.6	62-N	61-N	150-W	150-W	WSU	291	2
G 344	10/24/77	9.1	10.7	-1.6	62-N	62-N	150-W	151-W	WSU	295	0
G 330	10/24/77	12.2	10.7	1.5	62-N	62-N	149-W	150-W	WSU	289	2
G 376	10/22/77	12.2	10.7	1.5	71-N	75-N	149-W	148-W	WSU	284	0
G 385	10/22/77	12.2	10.7	1.5	71-N	75-N	149-W	148-W	WSU	284	2
G 360	10/23/77	15.2	10.7	4.5	72-N	75-N	149-W	148-W	WSU	259	0
G 382	10/22/77	16.8	10.7	6.1	75-N	71-N	149-W	149-W	WSU	240	5
G 340	10/23/77	18.3	10.7	7.6	75-N	71-N	148-W	148-W	WSU	193	0
G 395	04/08/78	15.2	17.1	-1.9	6-N	3-N	80-W	80-W	WSU	297	2
G 396	04/08/78	18.3	17.1	1.2	6-N	2-N	80-W	79-W	WSU	295	1
G 400	04/09/78	3.1	17.1	-14.0	7-N	7-N	80-W	80-W	WSU	299	0
G 399	04/09/78	6.1	17.1	-11.0	7-N	7-N	80-W	80-W	WSU	298	2
G 398	04/09/78	9.1	17.1	-8.0	7-N	7-N	80-W	80-W	WSU	295	2
G 401	04/09/78	12.2	17.1	-4.9	7-N	7-N	80-W	80-W	WSU	297	2
G 404	04/10/78	13.7	17.0	-3.3	12-N	15-N	81-W	83-W	WSU	294	1

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 403	04/10/78	13.7	17.0	-3.3	12-N	15-N	81-W	83-W	WSU	291	0
G 394	04/07/78	16.8	17.1	- .3	12-N	11-N	79-W	79-W	WSU	295	1
G 392	04/06/78	15.2	17.1	-1.9	15-N	12-N	83-W	81-W	WSU	297	4
G 393	04/07/78	19.2	17.1	2.1	15-N	12-N	80-W	80-W	WSU	261	2
G 406	04/11/78	18.3	12.8	5.5	24-N	27-N	94-W	94-W	WSU	290	3
G 407	04/11/78	19.2	12.8	6.4	24-N	27-N	94-W	94-W	WSU	267	1
G 408	04/11/78	18.3	12.8	5.5	25-N	28-N	94-W	94-W	WSU	275	5
G 391	04/06/78	15.2	12.2	3.0	27-N	25-N	93-W	90-W	WSU	290	1
G 405	04/11/78	16.8	12.8	4.0	27-N	24-N	94-W	94-W	WSU	289	0
G 388	04/05/78	6.1	12.2	-6.1	29-N	29-N	94-W	93-W	WSU	293	2
G 390	04/05/78	15.2	12.2	3.0	30-N	29-N	95-W	94-W	WSU	292	0
G 409	04/13/78	16.8	11.2	5.6	36-N	39-N	93-W	93-W	WSU	279	0
G 431	04/21/78	13.7	10.1	3.6	39-N	36-N	114-W	112-W	WSU	264	0
G 410	04/13/78	19.2	11.2	8.0	39-N	36-N	93-W	94-W	WSU	277	2
G 430	04/21/78	13.7	9.8	3.9	42-N	40-N	117-W	115-W	WSU	262	1
G 429	04/21/78	13.7	9.8	3.9	45-N	43-N	120-W	118-W	WSU	267	1
G 414	04/16/78	13.7	10.4	3.3	47-N	49-N	126-W	128-W	WSU	266	0
G 426	04/20/78	18.9	9.1	9.8	47-N	50-N	125-W	128-W	WSU	234	0
G 412	04/14/78	15.2	8.2	7.0	50-N	47-N	127-W	124-W	WSU	265	2
G 428	04/20/78	16.8	9.1	7.7	52-N	48-N	132-W	127-W	WSU	255	6
G 415	04/16/78	13.7	9.8	3.9	57-N	59-N	141-W	145-W	WSU	259	0
G 427	04/20/78	16.8	9.3	7.5	60-N	58-N	148-W	141-W	WSU	247	0
G 422	04/19/78	3.1	9.1	-6.0	62-N	62-N	150-W	151-W	WSU	299	0
G 424	04/19/78	6.1	9.1	-3.0	62-N	62-N	150-W	151-W	WSU	298	0
G 423	04/19/78	9.1	9.1	0	62-N	62-N	151-W	151-W	WSU	297	0
G 425	04/19/78	12.2	9.1	3.1	62-N	62-N	151-W	151-W	WSU	268	0
G 418	04/17/78	19.2	9.8	9.4	62-N	58-N	150-W	151-W	WSU	224	0
G 420	04/18/78	15.2	11.1	4.1	71-N	75-N	152-W	151-W	WSU	222	0
G 419	04/17/78	16.8	8.8	8.0	75-N	71-N	151-W	150-W	WSU	258	0
G 421	04/18/78	18.7	11.1	7.6	75-N	71-N	151-W	151-W	WSU	233	0
G 487	07/29/78	16.8	15.9	.9	2-N	6-N	80-W	80-W	WSU	291	0
G 453	07/29/78	19.2	16.8	2.4	2-N	5-N	80-W	80-W	WSU	281	1
G 493	07/29/78	15.2	16.8	-1.6	6-N	3-N	80-W	80-W	WSU	295	0
G 488	07/29/78	18.3	15.9	2.4	6-N	2-N	80-W	80-W	WSU	284	1
G 496	07/30/78	6.1	17.1	-11.0	8-N	8-N	79-W	79-W	WSU	291	4
G 497	07/30/78	9.1	17.1	-8.0	8-N	9-N	79-W	79-W	WSU	295	4
G 491	07/31/78	13.7	16.5	-2.8	8-N	10-N	80-W	81-W	WSU	291	2
G 484	07/30/78	3.1	17.0	-13.9	9-N	9-N	80-W	80-W	WSU	295	1
G 492	07/30/78	12.2	17.1	-4.9	9-N	9-N	79-W	79-W	WSU	295	0
G 489	07/31/78	13.7	15.9	-2.2	12-N	15-N	82-W	83-W	WSU	293	0
G 485	07/25/78	16.8	14.6	2.2	12-N	15-N	80-W	80-W	WSU	288	0
G 495	07/31/78	13.7	14.9	-1.2	24-N	26-N	88-W	90-W	WSU	291	2
G 451	07/20/78	18.3	15.0	3.3	24-N	27-N	94-W	94-W	WSU	265	0

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 461	07/20/78	19.2	15.0	4.2	24-N	27-N	94-W	94-W	WSU	265	2
G 456	07/24/78	15.2	13.7	1.5	27-N	25-N	92-W	89-W	WSU	291	2
G 450	07/11/78	3.1	15.4	-12.3	29-N	29-N	95-W	95-W	WSU	294	0
G 455	07/11/78	9.1	15.4	-6.3	29-N	29-N	95-W	95-W	WSU	294	0
G 458	07/11/78	13.7	15.4	-1.7	29-N	29-N	95-W	95-W	WSU	293	2
G 465	07/11/78	15.2	15.4	-.2	29-N	29-N	94-W	94-W	WSU	291	3
G 472	07/19/78	13.7	14.6	-.9	36-N	34-N	104-W	101-W	WSU	295	0
G 464	07/21/78	16.8	14.9	1.9	36-N	39-N	93-W	93-W	WSU	290	0
G 448	07/12/78	15.2	15.3	-.1	37-N	40-N	105-W	108-W	WSU	293	0
G 447	07/12/78	15.2	15.4	-.2	37-N	38-N	105-W	105-W	WSU	292	1
G 463	07/21/78	19.2	14.9	4.3	39-N	36-N	93-W	93-W	WSU	250	0
G 467	07/19/78	13.7	15.2	-1.5	42-N	40-N	112-W	109-W	WSU	295	0
G 477	07/19/78	13.7	11.3	2.4	45-N	44-N	118-W	115-W	WSU	290	1
G 449	07/14/78	13.7	13.7	0	47-N	49-N	124-W	125-W	WSU	286	2
G 457	07/12/78	15.2	11.3	3.9	47-N	49-N	121-W	126-W	WSU	275	1
G 471	07/18/78	19.2	11.1	8.1	47-N	50-N	131-W	129-W	WSU	226	1
G 470	07/18/78	16.8	11.4	5.4	52-N	49-N	138-W	135-W	WSU	276	0
G 476	07/18/78	16.8	11.4	5.4	60-N	57-N	146-W	143-W	WSU	259	2
G 480	07/15/78	18.3	10.5	7.8	61-N	58-N	150-W	150-W	WSU	217	1
G 469	07/17/78	12.2	10.5	1.7	65-N	65-N	144-W	144-W	WSU	283	0
G 473	07/17/78	3.1	9.8	-6.7	66-N	66-N	144-W	144-W	WSU	293	2
G 478	07/17/78	6.1	10.4	-4.3	66-N	66-N	145-W	144-W	WSU	297	2
G 482	07/11/78	9.1	9.8	-.7	66-N	66-N	145-W	145-W	WSU	293	1
G 466	07/15/78	12.2	9.8	2.4	71-N	73-N	149-W	149-W	WSU	277	2
G 475	07/16/78	15.2	9.8	5.4	71-N	74-N	149-W	148-W	WSU	267	2
G 474	07/15/78	16.8	9.8	7.0	74-N	71-N	150-W	149-W	WSU	246	0
G 481	07/16/78	19.2	9.8	9.4	75-N	72-N	149-W	150-W	WSU	228	0
G 551	10/19/78	16.8	16.2	.6	2-N	6-N	80-W	80-W	WSU	292	2
G 550	10/19/78	15.2	16.2	-1.0	6-N	3-N	80-W	80-W	WSU	298	2
G 544	10/20/78	13.7	15.5	-1.8	10-N	15-N	80-W	83-W	WSU	290	1
G 552	10/20/78	13.7	15.5	-1.8	11-N	16-N	81-W	83-W	WSU	291	0
G 538	10/18/78	16.8	16.2	.6	12-N	15-N	81-W	83-W	WSU	293	3
G 508	10/16/78	15.2	16.2	-1.0	15-N	12-N	83-W	81-W	WSU	293	2
G 549	10/18/78	19.2	16.2	3.0	15-N	12-N	83-W	82-W	WSU	268	0
G 514	10/20/78	13.7	15.5	-1.8	24-N	25-N	88-W	89-W	WSU	297	2
G 515	10/13/78	18.3	15.5	2.8	24-N	27-N	95-W	95-W	WSU	269	2
G 510	10/13/78	19.2	15.0	4.2	24-N	27-N	95-W	95-W	WSU	275	1
G 517	10/16/78	15.2	15.5	-.3	27-N	25-N	92-W	89-W	WSU	298	2
G 504	10/13/78	16.8	15.0	1.8	27-N	24-N	95-W	95-W	WSU	287	0
G 554	10/11/78	3.1	16.2	-13.1	29-N	29-N	95-W	95-W	WSU	298	0
G 555	10/11/78	9.1	16.2	-7.1	29-N	29-N	95-W	94-W	WSU	296	0
G 556	10/11/78	13.7	16.2	-2.5	29-N	29-N	94-W	94-W	WSU	299	1
G 557	10/11/78	15.2	16.2	-1.0	29-N	29-N	94-W	94-W	WSU	295	0

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 529	11/07/78	13.7	13.0	.7	36-N	33-N	102-W	99-W	WSU	301	0
G 503	10/14/78	16.8	12.2	4.6	36-N	39-N	93-W	93-W	WSU	254	0
G 512	10/30/78	15.2	15.1	.1	37-N	39-N	106-W	108-W	WSU	288	0
G 547	11/07/78	13.7	12.8	.9	39-N	37-N	107-W	104-W	OGC	293	0
G 519	10/14/78	19.2	12.1	7.1	39-N	36-N	93-W	93-W	WSU	248	0
G 522	11/07/78	13.7	12.8	.9	42-N	40-N	111-W	108-W	WSU	295	0
G 506	11/07/78	13.7	13.7	0	45-N	44-N	117-W	114-W	WSU	279	1
G 548	10/31/78	13.7	12.8	.9	47-N	49-N	128-W	129-W	WSU	295	2
G 513	10/30/78	15.2	12.7	2.5	47-N	49-N	121-W	126-W	WSU	286	2
G 526	11/06/78	19.0	12.5	6.5	50-N	47-N	128-W	123-W	WSU	257	2
G 527	11/06/78	16.8	12.5	4.3	52-N	49-N	132-W	129-W	WSU	283	0
G 507	10/31/78	13.7	9.5	4.2	58-N	59-N	141-W	144-W	WSU	280	0
G 536	11/06/78	16.8	8.2	8.6	60-N	58-N	147-W	142-W	WSU	258	2
G 518	11/02/78	3.1	9.1	-6.0	61-N	61-N	158-W	158-W	WSU	294	0
G 539	11/02/78	6.1	9.1	-3.0	61-N	61-N	157-W	157-W	WSU	296	2
G 531	11/02/78	9.1	9.1	0	61-N	60-N	157-W	156-W	WSU	297	4
G 546	11/02/78	12.2	9.1	3.1	61-N	61-N	159-W	157-W	WSU	286	4
G 525	11/01/78	19.2	9.1	10.1	61-N	58-N	150-W	149-W	WSU	185	2
G 528	11/01/78	12.2	10.1	2.1	71-N	74-N	150-W	150-W	WSU	281	7
G 545	11/05/78	15.2	9.1	6.1	71-N	71-N	150-W	150-W	WSU	267	2
G 520	11/01/78	16.8	10.1	6.7	75-N	72-N	151-W	151-W	WSU	237	1
G 591	04/11/79	16.8	16.5	.3	2-N	6-N	80-W	80-W	WSU	294	0
G 511	04/11/79	19.2	16.8	2.4	2-N	6-N	80-W	80-W	OGC	285	0
G 583	04/12/79	3.1	16.2	-13.1	6-N	6-N	81-W	81-W	WSU	291	0
G 589	04/12/79	6.1	16.2	-10.1	6-N	6-N	81-W	81-W	WSU	297	1
G 587	04/12/79	9.1	16.2	-7.1	6-N	6-N	81-W	81-W	WSU	294	1
G 586	04/12/79	12.2	16.2	-4.0	6-N	6-N	81-W	81-W	WSU	296	0
G 581	04/11/79	15.2	16.8	-1.6	6-N	3-N	80-W	80-W	WSU	294	0
G 537	04/11/79	18.3	16.8	1.5	6-N	2-N	80-W	80-W	WSU	290	1
G 590	04/13/79	13.7	17.1	-3.4	7-N	9-N	80-W	80-W	WSU	292	0
G 579	04/13/79	13.7	17.1	-3.4	12-N	15-N	81-W	83-W	WSU	294	0
G 584	04/10/79	16.8	16.5	.3	12-N	15-N	79-W	79-W	WSU	293	1
G 595	04/09/79	15.2	16.2	-1.0	15-N	12-N	83-W	82-W	WSU	295	1
G 580	04/10/79	19.2	16.5	2.7	15-N	12-N	79-W	79-W	OGC	281	0
G 578	04/13/79	13.7	14.2	-.5	24-N	26-N	88-W	90-W	OGC	294	0
G 606	04/18/79	18.3	12.1	6.2	24-N	27-N	93-W	94-W	WSU	268	0
G 598	04/18/79	19.2	12.1	7.1	24-N	27-N	94-W	94-W	WSU	245	1
G 594	04/09/79	15.2	16.3	-1.1	27-N	25-N	92-W	89-W	WSU	294	0
G 543	04/05/79	3.1	15.6	-12.5	29-N	30-N	95-W	94-W	WSU	294	0
G 540	04/05/79	9.1	15.6	-6.5	29-N	29-N	94-W	94-W	WSU	299	0
G 509	04/05/79	13.7	15.6	-1.9	29-N	29-N	94-W	94-W	OGC	295	0
G 516	04/05/79	15.2	16.8	-1.6	29-N	29-N	94-W	94-W	WSU	294	0
G 560	04/25/79	13.7	12.3	1.4	36-N	33-N	103-W	99-W	WSU	278	0

TABLE 4 (CONT'D)

EML. No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 521	04/06/79	16.8	12.6	4.2	36-N	39-N	93-W	93-W	OGC	277	0
G 582	04/10/79	15.2	12.9	2.3	37-N	40-N	107-W	111-W	OGC	292	1
G 562	04/25/79	13.7	12.6	1.1	39-N	36-N	107-W	103-W	WSU	268	1
G 532	04/06/79	19.2	12.6	6.6	39-N	36-N	93-W	93-W	OGC	204	0
G 561	04/25/79	13.7	12.5	1.2	42-N	40-N	112-W	108-W	WSU	275	1
G 566	04/25/79	13.7	11.3	2.4	45-N	42-N	118-W	112-W	WSU	273	1
G 609	04/20/79	13.7	9.7	4.0	47-N	52-N	124-W	132-W	WSU	271	0
G 577	04/19/79	15.2	9.7	5.5	47-N	50-N	122-W	128-W	WSU	281	0
G 605	04/19/79	15.2	9.7	5.5	47-N	48-N	122-W	125-W	WSU	264	0
G 567	04/24/79	19.2	10.7	8.5	47-N	50-N	126-W	128-W	OGC	189	0
G 565	04/24/79	16.8	11.2	5.6	52-N	49-N	131-W	127-W	WSU	250	1
G 585	04/20/79	13.7	12.5	1.2	57-N	59-N	140-W	144-W	WSU	273	0
G 568	04/24/79	16.8	12.1	4.7	60-N	57-N	143-W	136-W	OGC	246	0
G 572	04/22/79	19.2	11.8	7.4	61-N	58-N	150-W	150-W	WSU	214	0
G 574	04/21/79	3.1	12.2	-9.1	62-N	62-N	146-W	146-W	WSU	294	0
G 571	04/21/79	6.1	11.6	-5.5	62-N	62-N	145-W	145-W	WSU	295	0
G 524	04/21/79	10.7	12.6	-1.9	62-N	62-N	145-W	145-W	WSU	293	0
G 569	04/21/79	12.2	12.6	-.4	63-N	62-N	145-W	145-W	WSU	293	0
G 573	04/23/79	15.2	9.7	5.5	71-N	75-N	148-W	147-W	WSU	224	0
G 570	04/24/79	16.8	9.7	7.1	75-N	71-N	147-W	148-W	OGC	222	0
G 576	04/23/79	18.6	9.7	8.9	75-N	71-N	149-W	148-W	OGC	205	0
G 612	08/01/79	18.3	15.5	2.8	24-N	27-N	88-W	91-W	WSU	270	1
G 604	07/06/79	19.2	16.2	3.0	24-N	27-N	87-W	92-W	WSU	269	0
G 611	08/01/79	13.7	15.5	-1.8	27-N	24-N	91-W	87-W	WSU	293	1
G 602	07/06/79	15.2	15.2	0	28-N	26-N	93-W	90-W	WSU	295	0
G 588	07/16/79	15.2	15.6	-.4	28-N	29-N	94-W	95-W	WSU	290	0
G 600	07/16/79	3.1	15.6	-12.5	29-N	29-N	95-W	95-W	WSU	299	0
G 593	07/16/79	13.7	15.6	-1.9	29-N	29-N	94-W	95-W	WSU	298	0
G 597	07/03/79	16.8	15.5	1.3	36-N	39-N	96-W	94-W	WSU	289	0
G 610	07/18/79	15.2	15.9	-.7	37-N	39-N	104-W	108-W	WSU	289	0
G 626	07/24/79	13.7	14.7	-1.0	38-N	36-N	105-W	103-W	WSU	292	0
G 608	07/03/79	19.2	15.8	3.4	39-N	36-N	96-W	97-W	WSU	234	0
G 625	07/24/79	13.7	14.9	-1.2	42-N	39-N	112-W	108-W	WSU	284	2
G 624	07/24/79	13.7	13.2	.5	45-N	42-N	118-W	112-W	WSU	294	2
G 601	07/19/79	13.7	12.0	1.7	47-N	49-N	124-W	126-W	OGC	285	0
G 592	07/18/79	15.2	11.0	4.2	47-N	49-N	121-W	121-W	WSU	290	2
G 623	07/23/79	19.2	11.3	7.9	50-N	47-N	125-W	124-W	WSU	235	0
G 622	07/23/79	16.8	11.3	5.5	52-N	48-N	130-W	125-W	WSU	257	0
G 575	07/19/79	13.7	10.5	3.2	57-N	60-N	140-W	147-W	WSU	280	1
G 621	07/23/79	16.8	11.3	5.5	60-N	58-N	143-W	137-W	WSU	262	1
G 615	07/22/79	19.2	10.3	8.9	61-N	58-N	150-W	157-W	WSU	233	0
G 618	07/20/79	3.1	10.3	-7.2	62-N	62-N	151-W	152-W	WSU	294	0
G 619	07/20/79	6.1	10.3	-4.2	62-N	63-N	151-W	152-W	WSU	292	1

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 599	07/20/79	9.1	10.1	-1.0	63-N	64-N	152-W	152-W	WSU	294	0
G 620	07/20/79	12.2	10.3	1.9	63-N	62-N	152-W	151-W	WSU	275	0
G 613	07/22/79	12.2	10.4	1.8	70-N	74-N	148-W	148-W	WSU	281	0
G 616	07/21/79	15.2	11.9	3.3	71-N	75-N	149-W	148-W	WSU	274	0
G 614	07/22/79	16.8	10.4	6.4	75-N	71-N	149-W	149-W	WSU	253	0
G 617	07/21/79	18.3	11.9	6.4	75-N	71-N	148-W	149-W	WSU	216	1
G 696	11/12/79	16.8	16.6	.2	2-N	6-N	80-W	80-W	WSU	294	0
G 690	11/12/79	19.2	16.6	2.6	2-N	6-N	80-W	80-W	WSU	288	0
G 699	11/12/79	15.2	16.6	-1.4	6-N	3-N	79-W	80-W	WSU	295	0
G 705	11/18/79	13.8	17.1	-3.3	7-N	10-N	80-W	81-W	WSU	296	0
G 697	11/10/79	9.1	16.6	-7.5	8-N	8-N	78-W	79-W	WSU	297	0
G 698	11/10/79	12.2	16.6	-4.4	8-N	9-N	78-W	79-W	WSU	295	0
G 694	11/09/79	3.1	16.6	-13.5	9-N	8-N	79-W	79-W	WSU	295	0
G 695	11/09/79	6.1	16.6	-10.5	9-N	9-N	79-W	80-W	WSU	297	0
G 692	11/09/79	9.1	16.6	-7.5	9-N	9-N	79-W	79-W	WSU	293	0
G 707	11/18/79	13.7	16.2	-2.5	10-N	13-N	81-W	82-W	WSU	297	0
G 701	11/14/79	16.8	16.3	.5	12-N	15-N	79-W	79-W	WSU	293	0
G 702	11/14/79	19.1	16.3	2.8	14-N	12-N	79-W	79-W	WSU	283	0
G 693	11/07/79	15.2	16.2	-1.0	15-N	12-N	83-W	82-W	WSU	298	1
G 706	11/18/79	13.7	15.1	-1.4	24-N	26-N	88-W	90-W	WSU	298	0
G 688	11/06/79	18.0	17.4	.6	24-N	27-N	94-W	94-W	WSU	286	0
G 689	11/06/79	19.0	17.4	1.6	24-N	27-N	94-W	94-W	WSU	258	0
G 691	11/07/79	15.2	14.6	.6	27-N	25-N	92-W	89-W	WSU	299	0
G 687	11/06/79	16.8	17.4	-.6	27-N	24-N	94-W	94-W	WSU	296	0
G 663	10/10/79	3.1	15.3	-12.2	28-N	28-N	96-W	96-W	WSU	297	0
G 664	10/10/79	9.1	15.3	-6.2	28-N	28-N	95-W	95-W	WSU	294	0
G 666	10/10/79	15.2	15.3	-.1	28-N	29-N	96-W	95-W	WSU	295	0
G 665	10/10/79	13.7	15.3	-1.6	29-N	28-N	95-W	96-W	WSU	296	1
G 681	10/22/79	13.7	13.7	0	36-N	33-N	103-W	99-W	WSU	297	0
G 667	10/11/79	16.8	14.4	2.4	36-N	39-N	93-W	93-W	WSU	278	0
G 669	10/15/79	15.3	10.9	4.4	37-N	39-N	107-W	109-W	WSU	296	2
G 676	10/22/79	13.7	12.3	1.4	39-N	37-N	107-W	104-W	WSU	297	0
G 668	10/11/79	19.2	14.4	4.8	39-N	36-N	93-W	93-W	WSU	198	0
G 686	10/22/79	13.7	12.2	1.5	42-N	40-N	112-W	108-W	WSU	297	0
G 629	11/07/78	13.7	12.2	1.5	42-N	40-N	111-W	108-W	WSU	293	0
G 685	10/22/79	13.7	13.7	0	45-N	44-N	118-W	115-W	WSU	292	0
G 628	11/07/78	13.7	13.7	0	45-N	44-N	117-W	114-W	WSU	296	0
G 671	10/16/79	13.7	10.3	3.4	47-N	49-N	124-W	126-W	WSU	293	0
G 670	10/15/79	15.1	10.9	4.2	47-N	49-N	121-W	125-W	WSU	291	2
G 684	10/21/79	13.7	10.0	3.7	52-N	50-N	131-W	128-W	WSU	291	0
G 672	10/16/79	13.7	10.8	2.9	57-N	59-N	139-W	143-W	WSU	287	0
G 683	10/21/79	13.7	10.0	3.7	60-N	58-N	147-W	142-W	WSU	274	0
G 675	10/17/79	18.6	10.0	8.6	61-N	58-N	150-W	151-W	WSU	179	0

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 673	10/17/79	12.2	10.3	1.9	71-N	74-N	148-W	147-W	WSU	289	1
G 677	10/18/79	15.2	10.3	4.9	71-N	74-N	150-W	149-W	WSU	265	0
G 674	10/17/79	17.0	10.3	6.7	75-N	71-N	148-W	147-W	WSU	225	0
G 678	10/18/79	18.3	10.3	8.0	75-N	71-N	150-W	150-W	WSU	174	0
G 763	04/16/80	15.2	17.1	-1.9	2-N	2-N	80-W	80-W	WSU	301	0
G 764	04/16/80	16.8	17.1	-3.3	2-N	6-N	80-W	80-W	WSU	293	2
G 762	04/16/80	15.2	17.1	-1.9	6-N	2-N	75-W	80-W	WSU	295	3
G 753	04/16/80	18.3	17.1	1.2	6-N	3-N	79-W	80-W	WSU	291	1
G 767	04/17/80	3.1	17.1	-14.0	7-N	7-N	80-W	80-W	WSU	297	1
G 766	04/17/80	6.1	17.1	-11.0	7-N	7-N	80-W	81-W	WSU	294	1
G 768	04/17/80	12.2	17.1	-4.9	7-N	7-N	80-W	81-W	WSU	297	2
G 771	04/18/80	13.7	17.2	-3.5	7-N	9-N	79-W	80-W	WSU	299	0
G 765	04/17/80	9.1	17.1	-8.0	8-N	6-N	80-W	80-W	WSU	297	0
G 769	04/18/80	13.7	17.2	-3.5	12-N	15-N	81-W	83-W	WSU	297	0
G 759	04/15/80	16.8	17.2	-4	12-N	15-N	79-W	79-W	WSU	290	1
G 755	04/14/80	15.2	17.7	-2.5	14-N	12-N	82-W	82-W	WSU	295	0
G 760	04/15/80	19.2	17.2	2.0	14-N	12-N	79-W	80-W	WSU	288	1
G 761	04/15/80	19.2	17.2	2.0	15-N	12-N	79-W	80-W	WSU	275	0
G 770	04/18/80	13.7	12.2	1.5	24-N	26-N	88-W	89-W	WSU	297	0
G 751	04/09/80	18.3	16.8	1.5	24-N	27-N	94-W	94-W	WSU	272	0
G 752	04/09/80	19.2	16.8	2.4	24-N	27-N	94-W	94-W	WSU	281	0
G 757	04/14/80	15.2	17.4	-2.2	27-N	25-N	92-W	89-W	WSU	296	2
G 750	04/09/80	16.8	16.8	0	27-N	24-N	94-W	94-W	WSU	289	1
G 785	05/09/80	13.7	11.9	1.8	36-N	34-N	104-W	101-W	WSU	294	0
G 754	04/10/80	16.8	11.0	5.8	36-N	39-N	93-W	93-W	WSU	274	0
G 774	04/22/80	15.2	11.7	3.5	37-N	39-N	104-W	108-W	WSU	288	0
G 756	04/10/80	19.2	11.0	8.2	39-N	36-N	94-W	94-W	WSU	241	1
G 787	05/09/80	13.7	9.8	3.9	42-N	40-N	112-W	109-W	WSU	291	0
G 786	05/09/80	13.7	9.5	4.2	45-N	43-N	118-W	114-W	WSU	272	0
G 776	04/23/80	13.7	11.0	2.7	46-N	46-N	123-W	123-W	WSU	296	0
G 773	04/23/80	13.7	11.0	2.7	47-N	50-N	124-W	127-W	WSU	269	0
G 775	04/22/80	15.2	10.9	4.3	47-N	49-N	121-W	125-W	WSU	263	0
G 784	05/08/80	19.2	10.4	8.8	50-N	47-N	129-W	124-W	WSU	230	2
G 783	05/08/80	16.8	10.0	6.8	52-N	49-N	138-W	135-W	WSU	229	1
G 777	04/23/80	13.7	9.6	4.1	57-N	59-N	140-W	145-W	WSU	250	1
G 781	05/08/80	16.8	9.1	7.7	60-N	57-N	146-W	142-W	WSU	242	0
G 778	04/24/80	12.2	8.7	3.5	70-N	74-N	148-W	148-W	WSU	261	0
G 772	04/25/80	15.2	9.1	6.1	71-N	75-N	150-W	149-W	WSU	197	0
G 780	04/24/80	16.8	8.7	8.1	75-N	71-N	148-W	148-W	WSU	247	0
G 782	04/25/80	18.3	9.1	9.2	75-N	71-N	149-W	149-W	WSU	206	0
G 895	07/31/80	18.3	16.5	1.8	2-N	6-N	80-W	80-W	OGC	289	0
G 889	07/31/80	16.0	16.5	-5	6-N	2-N	80-W	80-W	OGC	295	0
G 863	07/29/80	9.2	16.5	-7.3	7-N	7-N	79-W	79-W	OGC	297	0

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 899	08/01/80	15.3	16.5	-1.2	7-N	10-N	80-W	81-W	OGC	293	0
G 892	07/29/80	6.1	16.5	-10.4	8-N	8-N	79-W	79-W	OGC	295	0
G 888	07/29/80	12.2	16.5	-4.3	8-N	7-N	79-W	79-W	OGC	295	0
G 866	07/29/80	3.1	16.5	-13.4	9-N	9-N	79-W	79-W	OGC	293	1
G 896	08/01/80	15.3	16.5	-1.2	12-N	15-N	82-W	83-W	OGC	296	0
G 897	07/30/80	16.8	16.5	.3	12-N	15-N	79-W	79-W	OGC	289	0
G 851	07/28/80	15.3	16.5	-1.2	15-N	12-N	83-W	81-W	OGC	299	0
G 886	07/30/80	19.2	16.5	2.7	15-N	12-N	79-W	79-W	OGC	271	0
G 900	08/01/80	19.2	15.0	4.2	24-N	27-N	88-W	92-W	OGC	267	1
G 861	07/25/80	18.9	15.1	3.8	25-N	28-N	94-W	94-W	OGC	257	1
G 854	07/28/80	15.3	15.0	.3	27-N	25-N	92-W	89-W	OGC	294	1
G 855	07/25/80	16.7	15.0	1.7	27-N	24-N	94-W	94-W	OGC	289	0
G 853	07/25/80	18.1	15.0	3.1	27-N	24-N	94-W	94-W	OGC	274	0
G 865	07/23/80	3.1	15.5	-12.4	29-N	30-N	95-W	94-W	OGC	295	1
G 868	07/23/80	9.2	15.5	-6.3	29-N	30-N	94-W	94-W	OGC	295	0
G 860	07/23/80	13.7	14.0	-.3	29-N	29-N	95-W	94-W	OGC	295	0
G 850	08/05/80	15.3	13.7	1.6	37-N	39-N	105-W	108-W	OGC	289	1
G 857	08/05/80	15.3	10.1	5.2	45-N	47-N	116-W	120-W	OGC	280	0
G 875	08/11/80	19.2	10.4	8.8	50-N	47-N	128-W	125-W	OGC	214	0
G 880	08/10/80	15.3	10.7	4.6	51-N	48-N	152-W	152-W	OGC	274	0
G 869	08/11/80	16.8	10.4	6.4	52-N	48-N	138-W	135-W	OGC	269	0
G 874	08/10/80	19.1	10.4	8.7	55-N	58-N	152-W	152-W	OGC	206	0
G 867	08/06/80	13.7	11.0	2.7	57-N	59-N	140-W	145-W	OGC	289	0
G 873	08/10/80	15.3	10.4	4.9	58-N	55-N	152-W	152-W	OGC	270	0
G 882	08/11/80	16.8	11.3	5.5	60-N	57-N	146-W	142-W	OGC	267	0
G 881	08/07/80	12.2	9.8	2.4	71-N	75-N	148-W	148-W	OGC	251	0
G 871	08/09/80	15.3	10.1	5.2	71-N	75-N	148-W	148-W	OGC	268	0
G 870	08/07/80	16.8	9.5	7.3	75-N	71-N	149-W	148-W	OGC	283	1
G 876	08/09/80	18.2	10.1	8.1	75-N	71-N	148-W	148-W	OGC	207	0
G 914	10/25/80	15.3	17.0	-1.7	0-S	3-S	80-W	80-W	OGC	296	0
G 924	10/24/80	19.2	16.2	3.0	3-N	6-N	80-W	80-W	OGC	282	0
G 913	10/25/80	18.3	17.0	1.3	3-S	0-S	80-W	80-W	OGC	289	0
G 952	10/24/80	19.2	16.8	2.4	3-S	0-S	80-W	80-W	OGC	286	0
G 936	10/17/80	12.2	16.5	-4.3	6-N	7-N	81-W	80-W	OGC	297	1
G 906	10/18/80	16.8	17.0	-.2	6-N	3-N	79-W	80-W	OGC	295	0
G 928	10/24/80	16.8	17.2	-.4	6-S	3-S	79-W	80-W	OGC	296	0
G 907	10/25/80	18.3	17.4	.9	6-S	3-S	79-W	80-W	OGC	287	0
G 912	10/18/80	19.2	17.0	2.2	6-S	9-S	79-W	78-W	OGC	278	0
G 911	10/26/80	15.3	17.1	-1.8	9-N	12-N	81-W	82-W	OGC	294	1
G 943	10/17/80	18.3	16.5	1.8	10-N	7-N	81-W	81-W	OGC	283	1
G 910	10/18/80	19.5	17.0	2.5	12-S	15-S	77-W	77-W	OGC	248	0
G 933	10/24/80	9.2	17.4	-8.2	13-S	15-S	77-W	77-W	OGC	295	1
G 903	10/26/80	15.3	16.5	-1.2	16-N	19-N	82-W	82-W	OGC	296	0

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 902	10/19/80	13.7	17.4	-3.7	18-S	22-S	75-W	74-W	OGC	296	0
G 922	10/26/80	15.3	16.3	-1.0	19-N	22-N	85-W	86-W	OGC	274	0
G 947	10/17/80	18.3	16.5	1.8	19-N	16-N	84-W	83-W	OGC	283	0
G 937	10/16/80	18.9	16.1	2.8	19-N	22-N	94-W	94-W	OGC	275	1
G 946	10/17/80	15.3	16.5	-1.2	21-N	19-N	86-W	85-W	OGC	297	0
G 935	10/16/80	16.7	16.1	.6	22-N	19-N	95-W	95-W	OGC	295	0
G 901	10/26/80	18.3	15.7	2.6	24-N	27-N	87-W	92-W	OGC	275	0
G 909	10/19/80	16.8	17.4	-.6	24-S	27-S	73-W	73-W	OGC	289	2
G 923	10/23/80	19.7	15.6	4.1	24-S	21-S	73-W	74-W	OGC	273	0
G 932	10/15/80	16.8	15.6	1.2	27-N	30-N	93-W	93-W	OGC	291	0
G 921	10/16/80	16.8	15.9	.9	27-N	24-N	95-W	95-W	OGC	291	0
G 939	10/15/80	19.2	15.9	3.3	27-N	30-N	93-W	93-W	OGC	264	0
G 950	10/15/80	9.2	15.5	-6.3	30-N	27-N	93-W	93-W	OGC	298	0
G 931	10/15/80	18.3	15.6	2.7	30-N	27-N	93-W	93-W	OGC	272	0
G 905	10/19/80	16.8	11.9	4.9	30-S	33-S	67-W	61-W	OGC	281	0
G 940	10/23/80	15.4	11.2	4.2	32-S	31-S	63-W	65-W	OGC	291	0
G 938	10/23/80	13.9	11.1	2.8	33-S	33-S	59-W	61-W	OGC	294	0
G 904	10/19/80	9.5	11.9	-2.4	34-S	35-S	60-W	57-W	OGC	295	1
G 929	10/23/80	12.3	11.1	1.2	34-S	33-S	58-W	59-W	OGC	294	0
G 941	10/20/80	10.7	11.0	-.3	36-S	39-S	57-W	58-W	OGC	291	1
G 927	10/21/80	15.3	8.8	6.5	39-S	42-S	58-W	59-W	OGC	284	0
G 949	10/20/80	13.7	9.5	4.2	42-S	39-S	59-W	58-W	OGC	291	1
G 951	10/21/80	18.3	8.8	9.5	42-S	39-S	59-W	58-W	OGC	250	0
G 945	10/20/80	10.8	9.6	1.2	46-S	48-S	59-W	59-W	OGC	293	0
G 934	10/21/80	15.3	9.9	5.4	48-S	51-S	58-W	58-W	OGC	265	0
G 944	10/21/80	16.8	9.9	6.9	51-S	48-S	58-W	58-W	OGC	197	0
G 997	04/28/81	15.2	16.6	-1.4	19-N	23-N	94-W	94-W	OGC	293	0
G 994	04/28/81	13.7	16.6	-2.9	22-N	19-N	94-W	94-W	OGC	296	0
G 971	04/09/81	18.3	15.7	2.6	24-N	27-N	94-W	94-W	OGC	291	0
G 972	04/09/81	19.2	15.7	3.5	24-N	27-N	94-W	94-W	OGC	272	0
G 995	04/28/81	15.2	15.5	-.3	25-N	28-N	94-W	94-W	OGC	298	0
G 973	04/09/81	16.8	15.7	1.1	27-N	24-N	94-W	94-W	OGC	292	1
G 970	04/09/81	16.8	15.7	1.1	27-N	24-N	94-W	94-W	OGC	297	1
G 996	04/28/81	13.7	15.5	-1.8	28-N	25-N	94-W	94-W	OGC	296	0
G 990	04/27/81	13.7	12.9	.8	36-N	37-N	103-W	103-W	OGC	290	0
G 974	04/21/81	15.2	13.4	1.8	37-N	34-N	105-W	107-W	OGC	283	0
G 991	04/27/81	13.7	12.8	.9	39-N	36-N	107-W	103-W	OGC	292	1
G 975	04/21/81	15.2	12.3	2.9	39-N	40-N	107-W	108-W	OGC	271	0
G 992	04/27/81	13.7	11.7	2.0	42-N	39-N	112-W	107-W	OGC	291	0
G 993	04/27/81	13.7	10.8	2.9	45-N	42-N	117-W	112-W	OGC	265	0
G 977	04/22/81	13.7	12.8	.9	47-N	50-N	124-W	128-W	OGC	286	0
G 976	04/21/81	15.2	11.7	3.5	47-N	50-N	121-W	127-W	OGC	245	0
G 986	04/25/81	6.1	9.0	-2.9	63-N	62-N	155-W	156-W	OGC	294	0

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 983	04/25/81	9.1	9.0	.1	63-N	63-N	156-W	156-W	OGC	290	0
G 981	04/25/81	12.2	8.8	3.4	63-N	63-N	155-W	156-W	OGC	278	0
G 980	04/23/81	16.8	8.6	8.2	75-N	71-N	151-W	149-W	OGC	224	0
G 982	04/24/81	19.2	8.1	11.1	75-N	76-N	148-W	148-W	OGC	194	0
22056	07/24/81	19.2	14.5	4.7	1-N	3-N	80-W	80-W	OGC	295	0
22052	07/23/81	9.1	15.2	-6.1	7-N	7-N	80-W	80-W	OGC	291	0
22053	07/23/81	12.2	15.2	-3.0	7-N	7-N	80-W	80-W	OGC	295	0
22044	07/21/81	16.8	15.1	1.7	7-N	8-N	80-W	80-W	OGC	279	0
22051	07/23/81	3.1	15.2	-12.1	9-N	8-N	79-W	79-W	OGC	293	0
22057	07/25/81	13.7	14.7	-1.0	10-N	13-N	81-W	82-W	OGC	277	1
22043	07/20/81	15.2	15.5	-.3	10-N	7-N	80-W	79-W	OGC	276	0
22049	07/21/81	19.2	15.1	4.1	10-N	8-N	80-W	80-W	OGC	267	0
22045	07/21/81	16.8	15.1	1.7	13-N	14-N	79-W	79-W	OGC	276	0
22058	07/25/81	13.7	14.6	-.9	16-N	19-N	83-W	85-W	OGC	277	0
22046	07/21/81	16.8	15.2	1.6	16-N	17-N	79-W	79-W	OGC	273	0
22048	07/21/81	19.2	15.1	4.1	16-N	13-N	79-W	80-W	OGC	260	0
22042	07/20/81	15.2	15.4	-.2	19-N	16-N	85-W	83-W	OGC	272	0
22047	07/21/81	19.2	15.4	3.8	19-N	16-N	79-W	80-W	OGC	262	2
G 1036	07/28/81	19.2	15.2	4.0	19-N	22-N	94-W	94-W	OGC	273	0
G 1037	07/28/81	16.8	15.2	1.6	22-N	19-N	94-W	94-W	OGC	286	0
G 1038	07/28/81	19.2	16.3	2.9	25-N	28-N	94-W	94-W	OGC	264	0
22041	07/20/81	15.2	15.3	-.1	28-N	25-N	96-W	89-W	OGC	277	1
G 1035	07/28/81	16.8	16.3	.5	28-N	25-N	94-W	94-W	OGC	283	0
22002	07/16/81	16.8	15.4	1.4	29-N	29-N	95-W	94-W	OGC	278	3
G 1042	07/29/81	19.2	13.9	5.3	32-N	30-N	94-W	94-W	OGC	255	0
22018	07/14/81	13.7	15.6	-1.9	36-N	33-N	100-W	98-W	OGC	298	0
G 1040	07/29/81	19.2	15.2	4.0	37-N	33-N	94-W	94-W	OGC	245	0
G 1039	07/29/81	16.8	13.6	3.2	38-N	42-N	93-W	93-W	OGC	276	0
22017	07/14/81	13.7	15.2	-1.5	39-N	36-N	101-W	100-W	OGC	297	0
22033	07/08/81	15.2	15.5	-.3	39-N	42-N	105-W	113-W	OGC	299	0
22016	07/14/81	13.7	14.9	-1.2	41-N	39-N	104-W	101-W	OGC	296	0
22015	07/14/81	13.7	15.0	-1.3	41-N	41-N	115-W	108-W	OGC	297	1
22036	07/09/81	13.7	11.0	2.7	45-N	48-N	124-W	125-W	OGC	283	0
22034	07/08/81	15.2	11.3	3.9	45-N	48-N	117-W	124-W	OGC	298	0
G 1041	07/29/81	18.9	14.6	4.3	45-N	41-N	93-W	93-W	OGC	237	0
22035	07/08/81	15.2	11.3	3.9	48-N	50-N	124-W	128-W	OGC	295	1
22013	07/13/81	16.8	10.0	6.8	48-N	45-N	131-W	128-W	OGC	268	1
22014	07/13/81	18.9	10.7	8.2	50-N	47-N	129-W	124-W	OGC	226	1
22037	07/09/81	13.7	10.3	3.4	51-N	51-N	130-W	130-W	OGC	297	0
22012	07/13/81	16.8	10.7	6.1	54-N	51-N	139-W	136-W	OGC	235	0
22038	07/09/81	13.7	11.4	2.3	57-N	58-N	140-W	141-W	OGC	299	0
22039	07/09/81	13.7	11.9	1.8	58-N	59-N	141-W	142-W	OGC	298	0
22023	07/12/81	9.1	10.1	-1.0	60-N	60-N	150-W	151-W	OGC	300	1

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
22011	07/13/81	16.8	11.5	5.3	60-N	57-N	146-W	143-W	OGC	262	0
22022	07/12/81	3.1	10.1	-7.0	61-N	61-N	150-W	150-W	OGC	298	1
G 1031	07/11/81	15.2	9.7	5.5	62-N	66-N	150-W	148-W	OGC	267	1
G 1034	07/11/81	18.9	9.7	9.2	66-N	64-N	149-W	149-W	OGC	211	0
G 1033	07/11/81	15.2	9.0	6.2	71-N	74-N	149-W	148-W	OGC	262	1
G 1032	07/11/81	18.3	9.0	9.3	74-N	70-N	149-W	148-W	OGC	208	1
23052	10/26/81	15.2	17.1	-1.9	16-N	16-N	83-W	83-W	OGC	299	4
23051	10/26/81	15.2	16.6	-1.4	25-N	22-N	89-W	86-W	OGC	275	3
23001	10/14/81	3.1	15.8	-12.7	29-N	29-N	94-W	94-W	OGC	294	1
23002	10/14/81	9.1	15.8	-6.7	29-N	29-N	94-W	94-W	OGC	300	1
23003	10/14/81	12.2	15.8	-3.6	29-N	29-N	94-W	94-W	OGC	299	1
23004	10/14/81	16.8	15.8	1.0	29-N	29-N	94-W	94-W	OGC	296	1
23005	10/14/81	19.2	15.8	3.4	29-N	29-N	94-W	94-W	OGC	273	1
23006	10/15/81	16.8	13.6	3.2	34-N	35-N	93-W	93-W	OGC	293	2
23049	10/21/81	13.7	16.2	-2.5	36-N	35-N	103-W	102-W	OGC	294	0
23009	10/15/81	19.2	14.9	4.3	37-N	36-N	93-W	93-W	OGC	265	0
23048	10/21/81	13.7	11.5	2.2	39-N	38-N	108-W	107-W	OGC	292	1
23021	10/16/81	15.2	13.6	1.6	39-N	42-N	108-W	110-W	OGC	274	1
23008	10/15/81	19.2	12.6	6.6	41-N	40-N	93-W	93-W	OGC	258	2
23047	10/21/81	13.7	11.4	2.3	42-N	41-N	118-W	111-W	OGC	291	1
23007	10/15/81	16.8	11.6	5.2	42-N	43-N	94-W	94-W	OGC	293	2
23046	10/21/81	13.7	11.3	2.4	44-N	44-N	115-W	115-W	OGC	294	1
23023	10/17/81	13.7	13.6	.1	48-N	49-N	125-W	125-W	OGC	293	1
23022	10/16/81	15.2	12.0	3.2	48-N	50-N	123-W	128-W	OGC	298	1
23043	10/21/81	16.8	12.7	4.1	48-N	48-N	125-W	125-W	OGC	232	1
23042	10/21/81	16.8	12.4	4.4	51-N	48-N	137-W	135-W	OGC	280	0
23024	10/17/81	13.7	13.0	.7	54-N	53-N	136-W	136-W	OGC	267	1
23041	10/21/81	16.8	12.4	4.4	54-N	52-N	141-W	138-W	OGC	278	1
23034	10/20/81	16.8	11.8	5.0	59-N	59-N	152-W	152-W	OGC	267	1
23035	10/20/81	16.8	11.8	5.0	60-N	62-N	151-W	149-W	OGC	268	0
23027	10/18/81	19.2	9.4	9.8	61-N	58-N	150-W	150-W	OGC	195	1
23033	10/20/81	13.7	11.8	1.9	62-N	60-N	149-W	151-W	OGC	290	1
23036	10/20/81	19.2	11.8	7.4	63-N	61-N	148-W	151-W	OGC	211	1
23032	10/20/81	12.2	11.8	.4	64-N	62-N	148-W	149-W	OGC	291	1
23028	10/19/81	15.2	9.0	6.2	71-N	75-N	148-W	148-W	OGC	267	2
23026	10/18/81	16.8	9.0	7.8	75-N	71-N	149-W	149-W	OGC	258	0
23029	10/19/81	19.2	9.0	10.2	75-N	71-N	150-W	150-W	OGC	195	1
24034	04/21/82	18.3	17.2	1.1	1-N	1-N	80-W	80-W	OGC	295	1
24033	04/21/82	15.2	17.2	-2.0	3-N	3-N	80-W	80-W	OGC	299	0
24035	04/21/82	19.2	17.2	2.0	6-N	6-N	79-W	79-W	OGC	285	1
24037	04/22/82	6.1	17.2	-11.1	10-N	11-N	79-W	79-W	OGC	299	1
24038	04/22/82	12.2	17.1	-4.9	10-N	13-N	79-W	79-W	OGC	299	1
24039	04/22/82	19.2	17.1	2.1	12-N	9-N	80-W	80-W	OGC	283	1

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
24019	04/19/82	13.7	16.0	-2.3	13-N	13-N	82-W	82-W	OGC	299	1
24032	04/20/82	19.2	17.1	2.1	13-N	10-N	79-W	80-W	OGC	282	1
24018	04/19/82	13.7	16.0	-2.3	19-N	16-N	85-W	83-W	OGC	299	0
24021	04/23/82	15.2	17.2	-2.0	19-N	19-N	85-W	85-W	OGC	299	0
24031	04/20/82	19.2	16.9	2.3	19-N	17-N	79-W	79-W	OGC	250	1
24017	04/16/82	18.8	16.0	2.8	22-N	23-N	95-W	95-W	OGC	281	1
24015	04/16/82	16.8	16.0	.8	25-N	25-N	95-W	95-W	OGC	292	0
24011	04/15/82	6.1	14.7	-8.6	29-N	29-N	95-W	95-W	OGC	299	1
24012	04/15/82	12.2	14.7	-2.5	29-N	29-N	95-W	95-W	OGC	299	0
24013	04/15/82	16.8	14.7	2.1	29-N	29-N	94-W	95-W	OGC	284	0
24014	04/15/82	19.2	14.7	4.5	29-N	28-N	94-W	96-W	OGC	209	0
24022	04/27/82	15.2	13.1	2.1	36-N	36-N	104-W	104-W	OGC	266	0
24055	05/07/82	15.2	11.0	4.2	39-N	39-N	108-W	108-W	OGC	275	0
24054	05/05/82	13.7	10.7	3.0	41-N	41-N	111-W	110-W	OGC	275	1
24059	05/07/82	19.2	10.7	8.5	41-N	41-N	109-W	109-W	OGC	226	1
24053	05/05/82	13.7	10.7	3.0	42-N	41-N	112-W	111-W	OGC	288	0
24056	05/07/82	16.8	10.4	6.4	43-N	43-N	108-W	108-W	OGC	217	1
24057	05/07/82	16.8	10.4	6.4	44-N	44-N	108-W	108-W	OGC	210	1
24023	04/27/82	15.2	12.4	2.8	45-N	45-N	118-W	118-W	OGC	274	1
24058	05/07/82	18.3	10.6	7.7	45-N	45-N	109-W	109-W	OGC	245	1
24052	05/04/82	19.2	11.6	7.6	47-N	50-N	131-W	130-W	OGC	223	0
24025	04/29/82	13.7	10.7	3.0	48-N	51-N	125-W	130-W	OGC	277	0
24026	04/28/82	13.7	8.8	4.9	54-N	57-N	135-W	139-W	OGC	243	1
24051	05/04/82	16.8	11.2	5.6	54-N	51-N	139-W	137-W	OGC	250	0
24046	05/03/82	6.1	9.2	-3.1	61-N	61-N	149-W	149-W	OGC	299	0
24045	05/02/82	19.2	9.5	9.7	61-N	58-N	150-W	150-W	OGC	220	0
24047	05/03/82	10.7	8.9	1.8	62-N	62-N	149-W	149-W	OGC	219	1
24048	05/03/82	12.2	8.9	3.3	62-N	62-N	149-W	149-W	OGC	264	0
24041	05/02/82	12.2	8.9	3.3	65-N	68-N	149-W	148-W	OGC	275	1
24044	05/02/82	16.8	8.9	7.9	68-N	65-N	148-W	148-W	OGC	185	0
24029	05/01/82	19.2	9.6	9.6	68-N	68-N	149-W	149-W	OGC	186	1
24042	05/02/82	12.2	9.5	2.7	71-N	75-N	149-W	148-W	OGC	263	0
24027	05/01/82	15.2	10.0	5.2	71-N	71-N	148-W	148-W	OGC	193	0
24028	05/01/82	18.7	9.8	8.9	75-N	75-N	148-W	148-W	OGC	203	0
25025	07/23/82	13.7	15.3	-1.6	8-N	8-N	80-W	80-W	OGC	298	1
25026	07/23/82	13.7	15.3	-1.6	10-N	10-N	80-W	80-W	OGC	301	1
25018	07/20/82	16.8	15.2	1.6	10-N	10-N	79-W	79-W	OGC	297	1
25027	07/23/82	13.7	14.9	-1.2	13-N	16-N	82-W	83-W	OGC	299	1
25028	07/23/82	13.7	14.7	-1.0	16-N	19-N	83-W	83-W	OGC	298	1
25017	07/19/82	15.2	14.4	.8	22-N	22-N	88-W	88-W	OGC	295	1
25015	07/16/82	16.8	15.5	1.3	22-N	19-N	94-W	94-W	OGC	293	1
25011	07/15/82	12.2	15.0	-2.8	30-N	30-N	95-W	95-W	OGC	299	1

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
25012	07/15/82	13.7	15.0	-1.3	30-N	30-N	95-W	95-W	OGC	298	1
25013	07/15/82	16.8	15.0	1.8	30-N	30-N	95-W	95-W	OGC	278	1
25014	07/15/82	19.2	15.0	4.2	30-N	30-N	95-W	95-W	OGC	245	0
25059	08/03/82	19.3	15.0	4.3	33-N	33-N	93-W	93-W	OGC	258	1
25056	08/02/82	13.7	11.8	1.9	42-N	42-N	112-W	112-W	OGC	296	0
25031	07/27/82	15.2	15.1	.1	42-N	42-N	111-W	111-W	OGC	286	1
25058	08/03/82	19.3	11.2	8.1	45-N	45-N	93-W	93-W	OGC	224	1
25055	08/01/82	18.8	10.4	8.4	47-N	48-N	131-W	131-W	OGC	229	0
25054	08/01/82	16.8	10.4	6.4	48-N	48-N	135-W	135-W	OGC	280	2
25053	08/01/82	16.8	10.6	6.2	53-N	52-N	138-W	138-W	OGC	275	1
25033	07/28/82	13.7	11.8	1.9	54-N	54-N	135-W	135-W	OGC	274	0
25052	08/01/82	16.8	10.6	6.2	54-N	53-N	139-W	139-W	OGC	275	1
25041	07/30/82	15.2	11.3	3.9	58-N	59-N	151-W	151-W	OGC	282	1
25045	07/31/82	6.1	11.3	-5.2	60-N	60-N	151-W	151-W	OGC	299	0
25046	07/31/82	9.1	11.3	-2.2	60-N	60-N	153-W	153-W	OGC	301	1
25051	08/01/82	16.8	10.2	6.6	60-N	59-N	146-W	146-W	OGC	258	0
25048	07/31/82	16.8	11.3	5.5	61-N	59-N	152-W	152-W	OGC	251	0
25039	07/29/82	18.6	12.1	6.5	61-N	60-N	150-W	150-W	OGC	203	1
25035	07/29/82	12.2	10.9	1.3	71-N	71-N	148-W	148-W	OGC	283	1
25042	07/30/82	15.2	10.1	5.1	71-N	72-N	144-W	144-W	OGC	260	1
25038	07/29/82	16.8	10.9	5.9	71-N	69-N	150-W	150-W	OGC	248	1
25036	07/29/82	12.2	10.9	1.3	72-N	72-N	148-W	148-W	OGC	285	0
25037	07/29/82	16.8	10.7	6.1	75-N	74-N	150-W	150-W	OGC	246	0
25043	07/30/82	18.3	9.8	8.5	75-N	74-N	148-W	148-W	OGC	211	0
26058	10/29/82	18.3	17.2	1.1	0	0	79-W	79-W	OGC	297	1
26054	10/27/82	19.9	16.2	3.7	0	0	79-W	79-W	OGC	283	1
26051	10/27/82	16.8	16.2	.6	3-N	3-N	79-W	79-W	OGC	297	1
26055	10/29/82	15.2	17.2	-2.0	3-S	3-S	79-W	79-W	OGC	299	1
26037	10/26/82	16.8	15.6	1.2	7-N	7-N	79-W	79-W	OGC	297	1
26056	10/29/82	15.2	17.2	-2.0	7-S	7-S	78-W	78-W	OGC	300	1
26052	10/27/82	16.8	16.2	.6	7-S	7-S	78-W	78-W	OGC	298	1
26038	10/26/82	19.2	15.6	3.6	10-N	10-N	79-W	79-W	OGC	287	1
26057	10/29/82	18.3	17.4	.9	10-S	10-S	77-W	77-W	OGC	283	0
26053	10/27/82	19.2	16.2	3.0	10-S	10-S	77-W	77-W	OGC	278	1
26059	10/30/82	13.7	16.8	-3.1	13-N	13-N	82-W	82-W	OGC	299	1
26033	10/22/82	18.7	16.0	2.7	19-N	19-N	93-W	93-W	OGC	263	0
26032	10/22/82	16.8	15.5	1.3	22-N	22-N	93-W	93-W	OGC	297	0
26013	10/13/82	15.2	15.5	-.3	27-N	27-N	96-W	96-W	OGC	301	1
26031	10/22/82	16.5	14.6	1.9	27-N	27-N	93-W	93-W	OGC	291	1
26015	10/13/82	19.2	15.7	3.5	27-N	27-N	96-W	96-W	OGC	236	0
26011	10/13/82	6.1	15.7	-9.6	29-N	29-N	93-W	93-W	OGC	299	0
26012	10/13/82	12.5	15.7	-3.2	29-N	29-N	91-W	91-W	OGC	299	1
26014	10/13/82	16.8	15.7	1.1	29-N	29-N	93-W	93-W	OGC	293	0

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
26016	10/14/82	16.8	11.5	5.3	34-N	38-N	92-W	93-W	OGC	291	0
26021	10/15/82	15.2	13.2	2.0	36-N	36-N	104-W	104-W	OGC	293	1
26019	10/14/82	19.2	11.5	7.7	37-N	33-N	93-W	93-W	OGC	256	1
26049	10/21/82	13.7	12.2	1.5	39-N	39-N	108-W	108-W	OGC	297	0
26022	10/15/82	15.2	13.6	1.6	42-N	42-N	112-W	112-W	OGC	295	0
26017	10/14/82	16.8	15.0	1.8	42-N	45-N	93-W	93-W	OGC	288	1
26024	10/16/82	13.7	10.0	3.7	45-N	48-N	123-W	124-W	OGC	298	1
26018	10/14/82	19.2	15.0	4.2	45-N	41-N	93-W	93-W	OGC	239	1
26048	10/20/82	15.2	11.1	4.1	50-N	47-N	128-W	123-W	OGC	288	1
26047	10/20/82	16.8	11.5	5.3	54-N	51-N	139-W	136-W	OGC	247	1
26044	10/19/82	6.1	11.3	-5.2	61-N	61-N	150-W	150-W	OGC	299	0
26045	10/19/82	9.1	11.3	-2.2	61-N	61-N	151-W	151-W	OGC	299	1
26029	10/17/82	18.7	9.8	8.9	61-N	61-N	150-W	150-W	OGC	181	0
26041	10/18/82	15.2	11.4	3.8	62-N	65-N	150-W	149-W	OGC	281	0
26046	10/19/82	19.2	11.3	7.9	62-N	61-N	153-W	152-W	OGC	206	0
26025	10/17/82	12.2	8.6	3.6	65-N	65-N	148-W	148-W	OGC	291	0
26026	10/17/82	12.2	10.3	1.9	71-N	71-N	148-W	148-W	OGC	288	0
26042	10/18/82	15.2	10.2	5.0	71-N	75-N	148-W	140-W	OGC	264	1
26028	10/17/82	16.8	10.2	6.6	73-N	73-N	147-W	147-W	OGC	202	1
26027	10/17/82	16.8	10.1	6.7	75-N	75-N	146-W	146-W	OGC	220	1
26043	10/18/82	18.5	10.2	8.3	75-N	71-N	149-W	148-W	OGC	191	1
27049	03/24/83	18.3	17.3	1.0	3-N	7-N	79-W	79-W	OGC	295	1
27057	03/25/83	20.0	16.0	4.0	3-N	7-N	79-W	79-W	OGC	285	0
27056	03/25/83	19.8	16.0	3.8	4-S	4-S	79-W	79-W	OGC	285	0
27046	03/24/83	15.2	17.3	-2.1	7-N	5-N	79-W	79-W	OGC	301	1
27051	03/25/83	16.8	17.3	- .5	7-N	5-N	79-W	79-W	OGC	299	1
27053	03/25/83	16.8	15.8	1.0	7-S	10-S	78-W	77-W	OGC	300	1
27055	03/25/83	19.3	16.0	3.3	7-S	4-S	78-W	79-W	OGC	285	0
27048	03/24/83	18.3	15.8	2.5	10-S	7-S	78-W	78-W	OGC	291	0
27054	03/25/83	19.2	15.8	3.4	10-S	7-S	77-W	77-W	OGC	286	0
27045	03/23/83	19.2	17.3	1.9	13-N	10-N	79-W	79-W	OGC	293	0
27043	03/21/83	15.2	16.2	-1.0	19-N	16-N	84-W	83-W	OGC	293	1
27058	03/26/83	13.7	13.0	.7	22-N	25-N	86-W	88-W	OGC	299	0
27059	03/28/83	19.2	16.5	2.7	22-N	25-N	93-W	93-W	OGC	275	0
27011	03/08/83	6.1	13.2	-7.1	29-N	29-N	94-W	94-W	OGC	300	1
27012	03/08/83	12.2	13.2	-1.0	29-N	29-N	95-W	95-W	OGC	290	1
27013	03/08/83	16.8	13.2	3.6	29-N	28-N	93-W	95-W	OGC	283	1
27014	03/08/83	19.2	13.2	6.0	29-N	29-N	92-W	95-W	OGC	255	0
27041	03/18/83	16.8	11.1	5.7	42-N	45-N	92-W	92-W	OGC	269	1
27016	03/09/83	15.2	12.0	3.2	43-N	44-N	113-W	116-W	OGC	300	1
27018	03/10/83	13.7	12.0	1.7	44-N	47-N	123-W	124-W	OGC	275	0
27017	03/09/83	15.2	12.0	3.2	44-N	45-N	116-W	118-W	OGC	299	2
27042	03/18/83	18.9	10.9	8.0	45-N	40-N	92-W	92-W	OGC	219	1

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
27019	03/10/83	13.7	10.0	3.7	51-N	53-N	130-W	133-W	OGC	270	0
27028	03/15/83	16.8	11.4	5.4	54-N	52-N	139-W	137-W	OGC	196	0
27021	03/11/83	15.2	8.8	6.4	65-N	68-N	148-W	148-W	OGC	280	0
27024	03/11/83	12.2	8.9	3.3	68-N	65-N	148-W	148-W	OGC	287	0
27027	03/12/83	18.9	9.5	9.4	68-N	65-N	148-W	148-W	OGC	185	1
27039	03/13/83	10.7	9.5	1.2	71-N	68-N	151-W	150-W	OGC	287	1
27031	03/13/83	13.7	9.0	4.7	71-N	72-N	161-W	164-W	OGC	253	0
27022	03/11/83	15.2	7.5	7.7	71-N	75-N	148-W	148-W	OGC	235	0
27025	03/12/83	16.8	7.8	9.0	71-N	75-N	148-W	147-W	OGC	240	1
27036	03/13/83	2.4	8.8	-6.4	72-N	73-N	154-W	153-W	OGC	300	0
27035	03/13/83	2.4	8.8	-6.4	72-N	73-N	157-W	156-W	OGC	301	0
27038	03/13/83	6.1	9.0	-2.9	72-N	71-N	151-W	152-W	OGC	300	0
27037	03/13/83	2.4	8.8	-6.4	73-N	73-N	153-W	151-W	OGC	301	1
27034	03/13/83	2.4	8.8	-6.4	73-N	73-N	161-W	159-W	OGC	300	1
27033	03/13/83	2.4	8.8	-6.4	73-N	73-N	162-W	161-W	OGC	299	0
27032	03/13/83	2.4	8.8	-6.4	73-N	73-N	164-W	162-W	OGC	301	1
27023	03/11/83	12.2	7.5	4.7	75-N	71-N	148-W	148-W	OGC	267	0
28026	09/29/83	19.2	15.0	4.2	19-N	20-N	93-W	94-W	OGC	282	1
28027	09/29/83	19.2	15.0	4.2	20-N	23-N	94-W	94-W	OGC	278	0
28024	09/29/83	16.8	15.0	1.8	22-N	20-N	94-W	94-W	OGC	295	0
28028	09/29/83	19.2	16.0	3.2	23-N	26-N	94-W	94-W	OGC	280	1
28023	09/29/83	16.8	15.5	1.3	26-N	22-N	94-W	94-W	OGC	295	1
28029	09/29/83	19.2	15.8	3.4	26-N	29-N	94-W	93-W	OGC	274	1
28037	09/30/83	16.8	14.9	1.9	28-N	29-N	96-W	94-W	OGC	296	1
28022	09/29/83	16.8	15.6	1.2	28-N	27-N	94-W	94-W	OGC	295	0
28039	09/30/83	19.2	14.9	4.3	28-N	29-N	96-W	94-W	OGC	275	1
28031	09/30/83	6.1	14.9	-8.8	29-N	29-N	95-W	95-W	OGC	299	1
28032	09/30/83	9.1	14.9	-5.8	29-N	29-N	95-W	95-W	OGC	299	1
28033	09/30/83	12.2	14.9	-2.7	29-N	29-N	94-W	95-W	OGC	299	1
28034	09/30/83	13.7	14.9	-1.2	29-N	29-N	95-W	94-W	OGC	299	0
28035	09/30/83	15.2	14.9	.3	29-N	29-N	94-W	95-W	OGC	299	0
28036	09/30/83	15.2	14.9	.3	29-N	28-N	95-W	96-W	OGC	300	0
28021	09/29/83	16.8	15.5	1.3	29-N	28-N	93-W	94-W	OGC	291	0
28038	09/30/83	18.3	14.9	3.4	29-N	29-N	93-W	95-W	OGC	264	0
28011	09/28/83	16.8	15.3	1.5	30-N	31-N	93-W	93-W	OGC	289	1
28019	09/28/83	19.2	15.2	4.0	33-N	33-N	93-W	93-W	OGC	247	1
28012	09/28/83	16.8	13.5	3.3	34-N	35-N	93-W	93-W	OGC	294	1
28018	09/28/83	19.2	13.5	5.7	37-N	34-N	93-W	93-W	OGC	235	1
28013	09/28/83	16.8	11.8	5.0	38-N	39-N	93-W	93-W	OGC	288	1
28017	09/28/83	19.2	11.8	7.4	41-N	39-N	92-W	92-W	OGC	242	0
28014	09/28/83	16.8	11.2	5.6	42-N	45-N	93-W	93-W	OGC	292	0
28016	09/28/83	19.2	11.2	8.0	45-N	44-N	92-W	92-W	OGC	250	0
28015	09/28/83	19.2	10.8	8.4	47-N	45-N	92-W	92-W	OGC	255	1

TABLE 4 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
29012	11/30/83	13.7	14.5	-.8	21-N	21-N	94-W	92-W	OGC	299	1
29013	11/30/83	13.7	14.5	-.8	21-N	21-N	92-W	91-W	OGC	300	0
29014	11/30/83	15.2	14.5	-.7	21-N	21-N	91-W	91-W	OGC	299	1
29015	11/30/83	16.8	14.5	2.3	21-N	21-N	91-W	93-W	OGC	299	1
29016	11/30/83	19.8	14.6	5.2	21-N	24-N	93-W	93-W	OGC	251	0
29011	11/30/83	15.2	14.8	-.4	27-N	21-N	94-W	94-W	OGC	298	0
29052	11/23/83	18.3	13.1	5.2	27-N	22-N	152-W	157-W	OGC	260	1
29018	11/30/83	19.8	14.0	5.8	27-N	30-N	94-W	93-W	OGC	241	1
29017	11/30/83	19.8	14.0	5.8	27-N	27-N	94-W	94-W	OGC	269	1
29043	11/16/83	15.2	13.4	1.8	30-N	33-N	96-W	99-W	OGC	294	0
29019	11/30/83	16.8	14.5	2.3	30-N	30-N	96-W	96-W	OGC	291	0
29044	11/16/83	15.2	12.2	3.0	35-N	35-N	101-W	101-W	OGC	292	0
29045	11/16/83	15.2	12.2	3.0	39-N	41-N	106-W	109-W	OGC	295	1
29046	11/16/83	15.2	10.0	5.2	45-N	45-N	117-W	117-W	OGC	283	0
29047	11/17/83	9.1	10.2	-1.1	46-N	45-N	122-W	123-W	OGC	299	0
29048	11/17/83	13.7	10.0	3.7	47-N	49-N	124-W	125-W	OGC	286	1
29039	11/22/83	16.8	10.0	6.8	51-N	50-N	130-W	130-W	OGC	262	1
29049	11/17/83	13.7	10.0	3.7	53-N	55-N	135-W	139-W	OGC	264	0
29035	11/21/83	19.2	10.9	8.3	53-N	56-N	150-W	150-W	OGC	253	0
29036	11/21/83	19.2	10.5	8.7	56-N	59-N	150-W	150-W	OGC	251	1
29037	11/21/83	16.8	10.0	6.8	59-N	61-N	150-W	149-W	OGC	247	0
29034	11/21/83	15.2	10.0	5.2	60-N	59-N	150-W	150-W	OGC	271	1
29031	11/20/83	3.1	10.3	-7.2	61-N	62-N	148-W	147-W	OGC	299	1
29038	11/21/83	13.7	10.0	3.7	61-N	61-N	149-W	149-W	OGC	291	0
29032	11/20/83	6.1	10.3	-4.2	62-N	62-N	146-W	145-W	OGC	299	0
29021	11/18/83	12.2	8.0	4.2	62-N	64-N	150-W	149-W	OGC	281	1
29025	11/19/83	15.2	8.1	7.1	63-N	65-N	149-W	149-W	OGC	229	0
29024	11/18/83	16.8	7.8	9.0	65-N	62-N	149-W	149-W	OGC	233	1
29028	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	193	0
29029	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	202	0
29022	11/18/83	12.2	8.0	4.2	68-N	71-N	149-W	148-W	OGC	286	1
29023	11/18/83	12.2	8.0	4.2	71-N	75-N	148-W	148-W	OGC	285	1

TABLE 5

CONCENTRATION OF CCl_2F_2 IN PROJECT AIRSTREAM SAMPLES
(pL L⁻¹)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 155	05/27/76	19.2	16.2	3.0	2-N	6-N	80-W	80-W	WSU	168	3
G 130	05/27/76	19.2	16.1	3.1	2-N	6-N	80-W	80-W	WSU	164	3
G 141	05/26/76	15.2	16.2	-1.0	7-S	10-S	79-W	78-W	WSU	208	0
G 145	05/26/76	18.3	16.2	2.1	10-S	7-S	78-W	79-W	WSU	190	0
G 154	05/27/76	19.2	16.2	3.0	10-S	6-S	78-W	79-W	WSU	170	2
G 150	05/28/76	15.2	16.2	-1.0	12-N	15-N	81-W	83-W	WSU	219	1
G 143	05/25/76	16.8	16.2	.6	12-N	15-N	79-W	79-W	WSU	210	5
G 144	05/24/76	18.3	16.2	2.1	15-N	12-N	83-W	81-W	WSU	169	3
G 146	05/25/76	19.2	16.2	3.0	15-N	12-N	79-W	79-W	WSU	162	1
G 153	05/28/76	15.2	15.5	-.3	24-N	27-N	90-W	93-W	WSU	154	4
G 159	06/09/76	19.2	15.6	3.6	24-N	26-N	95-W	95-W	WSU	140	0
G 156	05/24/76	15.2	14.0	1.2	27-N	24-N	93-W	90-W	WSU	209	0
G 158	06/09/76	16.8	15.6	1.2	27-N	24-N	95-W	95-W	WSU	200	2
G 151	06/08/76	15.2	12.6	2.6	36-N	39-N	95-W	95-W	WSU	186	2
G 131	06/01/76	16.8	13.6	3.2	36-N	39-N	103-W	106-W	WSU	136	12
G 149	06/07/76	13.7	14.2	-.5	39-N	36-N	108-W	104-W	WSU	197	3
G 147	06/08/76	19.2	12.6	6.6	39-N	36-N	95-W	95-W	WSU	117	0
G 133	06/02/76	13.7	8.6	5.1	47-N	50-N	122-W	127-W	WSU	175	2
G 157	06/06/76	19.2	9.7	9.5	47-N	50-N	129-W	129-W	WSU	129	0
G 132	06/01/76	16.8	8.3	8.5	48-N	50-N	123-W	128-W	WSU	128	0
G 152	06/06/76	15.2	9.7	5.5	52-N	48-N	135-W	131-W	WSU	159	1
G 140	06/05/76	19.2	10.6	8.6	58-N	61-N	142-W	147-W	WSU	95	0
G 134	06/02/76	13.7	9.7	4.0	59-N	61-N	141-W	148-W	WSU	158	18
G 139	06/05/76	16.8	10.6	6.2	61-N	58-N	150-W	142-W	WSU	149	2
G 135	06/03/76	13.3	10.2	3.1	71-N	74-N	148-W	149-W	WSU	178	0
G 137	06/04/76	15.2	10.5	4.7	71-N	75-N	148-W	148-W	WSU	157	0
G 136	06/03/76	16.8	10.2	6.6	75-N	71-N	149-W	148-W	WSU	116	2
G 138	06/04/76	18.3	10.5	7.8	75-N	71-N	149-W	148-W	WSU	88	2
G 170	08/20/76	18.3	15.7	2.6	2-N	6-N	80-W	80-W	WSU	193	3
G 168	08/21/76	19.2	15.1	4.1	2-N	6-N	80-W	80-W	WSU	186	0
G 178	08/20/76	15.2	15.3	-.1	6-N	2-N	80-W	80-W	WSU	219	2
G 177	08/21/76	16.8	15.1	1.7	6-N	2-N	80-W	80-W	WSU	211	0
G 173	08/20/76	15.2	15.7	-.5	7-S	10-S	79-W	78-W	WSU	216	0
G 175	08/21/76	16.8	15.7	1.1	7-S	10-S	78-W	78-W	WSU	208	2
G 169	08/20/76	18.3	15.8	2.5	10-S	7-S	78-W	79-W	WSU	193	0
G 172	08/21/76	19.2	15.7	3.5	10-S	7-S	78-W	79-W	WSU	192	2
G 192	08/22/76	15.2	15.1	.1	12-N	15-N	81-W	83-W	WSU	214	0
G 180	08/18/76	16.9	15.8	1.1	12-N	15-N	79-W	79-W	WSU	208	2
G 181	08/17/76	18.3	15.6	2.7	15-N	12-N	93-W	81-W	WSU	193	4
G 171	08/18/76	19.2	15.8	3.4	15-N	12-N	79-W	79-W	WSU	176	2

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 167	08/13/76	19.2	15.8	3.4	18-N	21-N	86-W	86-W	WSU	178	1
G 161	08/12/76	19.2	15.9	3.3	20-N	24-N	95-W	96-W	WSU	168	0
G 163	08/12/76	16.8	15.9	.9	23-N	20-N	96-W	95-W	WSU	202	1
G 174	08/13/76	15.2	16.0	-.8	24-N	21-N	87-W	86-W	WSU	223	33
G 191	08/22/76	18.3	14.7	3.6	24-N	27-N	87-W	90-W	WSU	186	0
G 176	08/13/76	19.2	16.0	3.2	24-N	27-N	87-W	89-W	WSU	156	0
G 162	08/12/76	19.2	15.9	3.3	24-N	27-N	96-W	95-W	WSU	158	3
G 179	08/17/76	15.2	15.5	-.3	27-N	24-N	93-W	90-W	WSU	219	0
G 182	08/13/76	16.8	16.0	.8	27-N	24-N	90-W	82-W	WSU	200	7
G 160	08/12/76	16.8	15.9	.9	27-N	23-N	95-W	96-W	WSU	207	1
G 188	08/23/76	15.2	15.1	.1	36-N	39-N	97-W	97-W	WSU	202	11
G 183	08/25/76	16.8	15.9	.9	36-N	39-N	106-W	110-W	WSU	194	1
G 164	08/31/76	13.7	16.7	-3.0	39-N	36-N	107-W	103-W	WSU	218	3
G 187	08/23/76	19.2	15.1	4.1	39-N	36-N	96-W	96-W	WSU	135	4
G 194	08/26/76	13.7	12.0	1.7	47-N	50-N	124-W	127-W	WSU	218	0
G 190	08/25/76	16.8	9.9	6.9	48-N	50-N	123-W	128-W	WSU	178	2
G 198	08/25/76	19.2	10.0	9.2	50-N	47-N	129-W	125-W	WSU	111	17
G 195	08/25/76	19.2	10.0	9.2	50-N	47-N	129-W	125-W	WSU	132	4
G 166	08/30/76	15.2	11.5	3.7	52-N	49-N	132-W	127-W	WSU	201	1
G 189	08/26/76	13.7	10.2	3.5	59-N	61-N	143-W	147-W	WSU	208	0
G 165	08/30/76	15.2	10.0	5.2	61-N	58-N	145-W	139-W	WSU	177	1
G 186	08/29/76	16.8	9.7	7.1	61-N	58-N	147-W	147-W	WSU	158	1
G 197	08/21/76	12.5	10.0	2.5	71-N	74-N	148-W	148-W	WSU	206	1
G 196	08/28/76	15.2	11.1	4.1	71-N	75-N	148-W	148-W	WSU	191	0
G 185	08/27/76	16.8	10.9	5.9	75-N	72-N	149-W	149-W	WSU	174	1
G 184	08/28/76	18.7	11.1	7.6	75-N	71-N	147-W	148-W	WSU	128	5
G 210	11/14/76	18.3	17.1	1.2	2-N	6-N	80-W	80-W	WSU	209	2
G 211	11/14/76	15.2	17.1	-1.9	6-N	2-N	80-W	80-W	WSU	224	1
G 213	11/15/76	16.8	17.0	-.2	6-N	2-N	80-W	80-W	WSU	222	4
G 220	11/14/76	15.2	17.3	-2.1	7-S	10-S	78-W	78-W	WSU	220	2
G 214	11/15/76	16.8	16.5	.3	7-S	10-S	80-W	78-W	WSU	219	0
G 221	11/14/76	18.3	17.3	1.0	10-S	7-S	78-W	79-W	WSU	195	1
G 217	11/15/76	19.2	16.4	2.8	10-S	7-S	78-W	79-W	WSU	199	1
G 200	11/16/76	15.2	16.7	-1.5	12-N	15-N	81-W	83-W	WSU	217	1
G 219	11/13/76	19.2	17.6	1.6	12-N	15-N	79-W	79-W	WSU	200	7
G 212	11/13/76	16.8	16.8	0	15-N	12-N	79-W	79-W	WSU	227	4
G 203	11/16/76	18.3	15.2	3.1	24-N	27-N	87-W	90-W	WSU	206	1
G 201	11/17/76	19.2	15.3	3.9	24-N	27-N	96-W	95-W	WSU	199	9
G 215	11/11/76	15.2	16.1	-.9	27-N	24-N	90-W	87-W	WSU	220	2
G 205	11/17/76	16.8	15.3	1.5	27-N	24-N	95-W	95-W	WSU	222	12
G 207	10/28/76	15.2	11.8	3.4	36-N	37-N	98-W	98-W	WSU	202	0
G 224	10/30/76	16.8	12.4	4.4	36-N	39-N	105-W	108-W	WSU	171	1
G 209	10/28/76	15.2	11.9	3.3	37-N	39-N	98-W	98-W	WSU	194	1

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 204	10/28/76	19.2	11.9	7.3	38-N	37-N	98-W	98-W	WSU	141	0
G 206	11/08/76	13.7	12.8	.9	39-N	36-N	106-W	103-W	WSU	221	2
G 208	10/28/76	19.2	11.9	7.3	39-N	38-N	98-W	98-W	WSU	137	0
G 227	10/30/76	16.8	11.3	5.5	48-N	50-N	124-W	128-W	WSU	200	1
G 223	10/30/76	19.2	11.4	7.8	50-N	48-N	128-W	125-W	WSU	137	2
G 199	11/07/76	15.2	11.4	3.8	52-N	49-N	130-W	126-W	WSU	208	7
G 226	10/31/76	13.7	8.2	5.5	59-N	60-N	143-W	144-W	WSU	226	2
G 202	11/07/76	15.2	9.7	5.5	61-N	59-N	146-W	140-W	WSU	187	1
G 225	11/06/76	16.8	8.6	8.2	61-N	58-N	154-W	154-W	WSU	170	4
G 222	11/04/76	12.2	9.0	3.2	71-N	74-N	148-W	148-W	WSU	200	1
G 230	11/05/76	15.2	9.7	5.5	71-N	76-N	148-W	147-W	WSU	172	1
G 228	11/04/76	16.8	9.0	7.8	75-N	71-N	147-W	148-W	WSU	135	2
G 232	11/05/76	18.3	9.7	8.6	75-N	71-N	147-W	148-W	WSU	107	2
G 251	03/30/77	18.3	17.7	.6	2-N	6-N	80-W	80-W	WSU	221	1
G 249	03/31/77	15.2	17.7	-2.5	6-N	3-N	80-W	80-W	WSU	238	0
G 247	03/30/77	16.8	17.7	-.9	6-N	2-S	80-W	80-W	WSU	220	0
G 262	04/02/77	15.2	16.2	-1.0	12-N	15-N	81-W	83-W	WSU	232	0
G 246	04/01/77	16.8	16.4	.4	12-N	15-N	79-W	79-W	WSU	233	0
G 250	03/30/77	18.3	17.2	1.1	15-N	12-N	83-W	81-W	WSU	211	2
G 253	04/01/77	19.2	16.4	2.8	15-N	12-N	79-W	79-W	WSU	162	0
G 266	03/23/77	19.2	17.0	2.2	24-N	27-N	94-W	94-W	WSU	188	0
G 257	03/23/77	19.2	17.0	2.2	24-N	27-N	94-W	94-W	WSU	190	0
G 260	04/02/77	18.3	17.0	1.3	25-N	27-N	88-W	90-W	WSU	226	0
G 264	03/23/77	16.8	17.0	-.2	27-N	24-N	94-W	94-W	WSU	228	2
G 263	03/24/77	15.2	11.0	4.2	36-N	39-N	96-W	96-W	WSU	218	3
G 258	04/10/77	13.7	13.0	.7	39-N	36-N	107-W	103-W	WSU	204	5
G 256	03/24/77	19.2	11.0	8.2	39-N	36-N	96-W	95-W	WSU	115	0
G 237	04/04/77	19.2	11.7	7.5	49-N	48-N	126-W	124-W	WSU	154	0
G 265	04/09/77	15.2	10.4	4.8	52-N	50-N	132-W	127-W	WSU	170	2
G 261	04/09/77	15.2	9.1	6.1	61-N	60-N	145-W	139-W	WSU	182	0
G 241	04/07/77	16.8	8.8	8.0	61-N	58-N	150-W	150-W	WSU	114	0
G 242	04/06/77	12.2	8.1	4.1	71-N	75-N	148-W	147-W	WSU	198	0
G 244	04/07/77	15.2	7.4	7.8	71-N	75-N	149-W	148-W	WSU	98	3
G 243	04/06/77	16.8	8.1	8.7	75-N	71-N	149-W	148-W	WSU	91	0
G 245	04/07/77	18.3	7.4	10.9	75-N	71-N	149-W	149-W	WSU	102	1
G 290	07/10/77	19.2	16.2	3.0	2-N	6-N	80-W	80-W	WSU	205	1
G 302	07/11/77	3.1	15.3	-12.2	6-N	6-N	81-W	81-W	WSU	238	0
G 295	07/11/77	6.1	15.5	-9.4	6-N	6-N	81-W	81-W	WSU	235	3
G 297	07/11/77	9.1	15.5	-6.4	6-N	6-N	81-W	81-W	WSU	240	0
G 294	07/11/77	12.2	15.5	-3.3	6-N	6-N	81-W	81-W	WSU	236	1
G 279	07/10/77	15.2	16.2	-1.0	6-N	2-N	80-W	80-W	WSU	231	2
G 275	07/10/77	18.3	16.2	2.1	6-N	2-N	80-W	80-W	WSU	211	3
G 300	07/12/77	15.2	15.6	-.4	12-N	15-N	81-W	83-W	WSU	234	0

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 289	07/09/77	16.8	16.2	.6	12-N	15-N	79-W	79-W	WSU	228	4
G 286	07/08/77	18.3	16.2	2.1	15-N	12-N	83-W	81-W	WSU	200	2
G 277	07/09/77	19.2	16.2	3.0	15-N	12-N	79-W	79-W	WSU	196	2
G 287	07/12/77	18.3	15.9	2.4	24-N	27-N	87-W	90-W	WSU	198	0
G 276	07/07/77	19.2	15.2	4.0	24-N	27-N	94-W	94-W	WSU	182	0
G 301	07/08/77	15.2	13.8	1.4	27-N	24-N	90-W	87-W	WSU	233	0
G 278	07/22/77	15.2	15.0	.2	27-N	27-N	95-W	94-W	WSU	233	4
G 296	07/07/77	16.8	15.2	1.6	27-N	24-N	94-W	94-W	WSU	223	2
G 285	07/22/77	3.1	15.0	-11.9	28-N	28-N	95-W	95-W	WSU	252	0
G 283	07/22/77	13.7	15.0	-1.3	28-N	27-N	95-W	95-W	WSU	248	2
G 282	07/14/77	15.2	15.2	0	36-N	39-N	98-W	98-W	WSU	227	4
G 298	07/14/77	16.8	15.1	1.7	36-N	39-N	106-W	109-W	WSU	214	0
G 281	07/21/77	13.7	15.0	-1.3	39-N	36-N	107-W	104-W	WSU	245	0
G 292	07/14/77	19.2	15.2	4.0	39-N	36-N	96-W	96-W	WSU	178	2
G 384	07/15/77	13.7	12.5	1.2	47-N	51-N	125-W	131-W	WSU	260	15
G 386	07/15/77	13.7	12.5	1.2	48-N	48-N	124-W	125-W	WSU	220	13
G 280	07/14/77	16.8	12.5	4.3	48-N	50-N	124-W	128-W	WSU	172	2
G 284	07/14/77	19.2	12.5	6.7	50-N	47-N	129-W	127-W	WSU	136	0
G 305	07/20/77	15.2	11.2	4.0	52-N	51-N	132-W	129-W	WSU	186	0
G 274	07/19/77	19.2	9.8	9.4	58-N	61-N	148-W	148-W	WSU	115	0
G 379	07/15/77	13.7	10.3	3.4	59-N	62-N	143-W	147-W	WSU	190	2
G 303	07/20/77	15.2	10.6	4.6	60-N	58-N	142-W	139-W	WSU	192	2
G 293	07/18/77	3.1	10.4	-7.3	61-N	61-N	148-W	149-W	WSU	253	0
G 288	07/18/77	6.1	10.4	-4.3	61-N	61-N	148-W	148-W	WSU	246	9
G 299	07/18/77	12.2	10.4	1.8	61-N	62-N	149-W	148-W	WSU	203	2
G 304	07/20/77	15.2	10.6	4.6	61-N	60-N	147-W	142-W	WSU	180	0
G 381	07/16/77	12.2	10.1	2.1	71-N	74-N	148-W	148-W	WSU	190	7
G 383	07/17/77	15.2	9.5	5.7	71-N	75-N	148-W	147-W	WSU	190	9
G 362	10/15/77	16.8	17.1	-.3	2-N	6-N	80-W	80-W	WSU	235	0
G 356	10/15/77	19.2	17.1	2.1	2-N	6-N	80-W	80-W	WSU	217	1
G 351	10/15/77	15.2	17.1	-1.9	6-N	2-N	80-W	80-W	WSU	244	4
G 346	10/15/77	18.3	17.1	1.2	6-N	2-N	80-W	80-W	WSU	228	2
G 361	10/16/77	3.1	16.3	-13.2	7-N	7-N	81-W	81-W	WSU	244	1
G 347	10/16/77	6.1	16.3	-10.2	7-N	7-N	81-W	82-W	WSU	246	1
G 358	10/16/77	9.1	16.3	-7.2	7-N	7-N	82-W	82-W	WSU	242	6
G 359	10/16/77	12.2	11.3	.9	7-N	6-N	82-W	82-W	WSU	245	1
G 349	10/17/77	13.7	14.6	-.9	7-N	12-N	79-W	80-W	WSU	241	0
G 353	10/17/77	13.7	15.6	-1.9	12-N	15-N	81-W	83-W	WSU	246	1
G 348	10/14/77	16.8	15.2	1.6	12-N	15-N	79-W	79-W	WSU	232	0
G 336	10/13/77	15.2	16.0	-.8	14-N	12-N	82-W	81-W	WSU	246	0
G 343	10/14/77	19.2	15.2	4.0	14-N	11-N	79-W	79-W	WSU	208	2
G 366	10/14/77	19.2	15.2	4.0	14-N	15-N	79-W	79-W	WSU	203	0
G 345	10/14/77	19.2	15.2	4.0	15-N	12-N	79-W	80-W	WSU	214	0

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 357	10/17/77	13.7	15.2	-1.5	24-N	26-N	88-W	91-W	WSU	246	1
G 364	10/27/77	19.2	15.2	4.0	24-N	27-N	94-W	94-W	WSU	200	2
G 355	10/27/77	13.7	15.2	-1.5	27-N	24-N	94-W	94-W	WSU	239	0
G 341	10/13/77	15.2	14.6	.6	27-N	24-N	92-W	88-W	WSU	249	2
G 365	10/29/77	18.3	15.0	3.3	27-N	30-N	94-W	94-W	WSU	202	0
G 335	10/12/77	9.1	15.0	-5.9	28-N	29-N	94-W	93-W	WSU	249	0
G 354	10/12/77	3.1	14.5	-11.4	29-N	28-N	95-W	95-W	WSU	257	4
G 350	10/12/77	13.7	14.5	-.8	29-N	29-N	93-W	94-W	WSU	242	2
G 338	10/12/77	15.2	14.0	1.2	30-N	30-N	94-W	93-W	WSU	242	1
G 342	10/29/77	16.8	15.5	1.3	36-N	39-N	93-W	93-W	WSU	226	0
G 327	10/20/77	15.2	15.4	-.2	37-N	39-N	105-W	109-W	WSU	231	0
G 352	10/20/77	13.7	15.0	-1.3	39-N	36-N	107-W	104-W	WSU	246	1
G 337	10/29/77	19.2	15.5	3.7	39-N	36-N	93-W	93-W	WSU	170	0
G 334	10/21/77	13.7	12.5	1.2	47-N	49-N	124-W	127-W	WSU	244	1
G 329	10/20/77	15.2	12.5	2.7	47-N	48-N	122-W	127-W	WSU	220	2
G 363	10/25/77	19.2	14.3	4.9	47-N	50-N	126-W	128-W	WSU	144	7
G 339	10/25/77	16.8	11.9	4.9	52-N	49-N	132-W	126-W	WSU	162	0
G 328	10/21/77	13.7	9.8	3.9	57-N	59-N	140-W	146-W	WSU	214	0
G 333	10/25/77	16.8	10.7	6.1	60-N	57-N	146-W	139-W	WSU	141	1
G 380	10/22/77	19.2	9.0	10.2	61-N	58-N	150-W	150-W	WSU	92	8
G 332	10/24/77	3.1	10.7	-7.6	62-N	61-N	150-W	150-W	WSU	257	1
G 344	10/24/77	9.1	10.7	-1.6	62-N	62-N	150-W	151-W	WSU	250	4
G 330	10/24/77	12.2	10.7	1.5	62-N	62-N	149-W	150-W	WSU	235	0
G 376	10/22/77	12.2	10.7	1.5	71-N	75-N	149-W	148-W	WSU	220	0
G 385	10/22/77	12.2	10.7	1.5	71-N	75-N	149-W	148-W	WSU	240	4
G 360	10/23/77	15.2	10.7	4.5	72-N	75-N	149-W	148-W	WSU	186	3
G 382	10/22/77	16.8	10.7	6.1	75-N	71-N	149-W	149-W	WSU	190	0
G 340	10/23/77	18.3	10.7	7.6	75-N	71-N	148-W	148-W	WSU	104	0
G 395	04/08/78	15.2	17.1	-1.9	6-N	3-N	80-W	80-W	WSU	258	2
G 396	04/08/78	18.3	17.1	1.2	6-N	2-N	80-W	79-W	WSU	255	5
G 400	04/09/78	3.1	17.1	-14.0	7-N	7-N	80-W	80-W	WSU	258	0
G 399	04/09/78	6.1	17.1	-11.0	7-N	7-N	80-W	80-W	WSU	261	2
G 398	04/09/78	9.1	17.1	-8.0	7-N	7-N	80-W	80-W	WSU	250	5
G 401	04/09/78	12.2	17.1	-4.9	7-N	7-N	80-W	80-W	WSU	259	4
G 404	04/10/78	13.7	17.0	-3.3	12-N	15-N	81-W	83-W	WSU	266	6
G 403	04/10/78	13.7	17.0	-3.3	12-N	15-N	81-W	83-W	WSU	248	2
G 394	04/07/78	16.8	17.1	-.3	12-N	11-N	79-W	79-W	WSU	247	283
G 392	04/06/78	15.2	17.1	-1.9	15-N	12-N	83-W	81-W	WSU	246	7
G 393	04/07/78	19.2	17.1	2.1	15-N	12-N	80-W	80-W	WSU	199	8
G 406	04/11/78	18.3	12.8	5.5	24-N	27-N	94-W	94-W	WSU	244	4
G 407	04/11/78	19.2	12.8	6.4	24-N	27-N	94-W	94-W	WSU	208	3
G 408	04/11/78	18.3	12.8	5.5	25-N	28-N	94-W	94-W	WSU	214	2
G 391	04/06/78	15.2	12.2	3.0	27-N	25-N	93-W	90-W	WSU	253	18

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 405	04/11/78	16.8	12.8	4.0	27-N	24-N	94-W	94-W	WSU	231	4
G 388	04/05/78	6.1	12.2	-6.1	29-N	29-N	94-W	93-W	WSU	253	0
G 390	04/05/78	15.2	12.2	3.0	30-N	29-N	95-W	94-W	WSU	254	2
G 409	04/13/78	16.8	11.2	5.6	36-N	39-N	93-W	93-W	WSU	224	283
G 411	04/14/78	15.2	10.7	4.5	37-N	40-N	107-W	110-W	WSU	247	4
G 431	04/21/78	13.7	10.1	3.6	39-N	36-N	114-W	112-W	WSU	202	2
G 430	04/21/78	13.7	9.8	3.9	42-N	40-N	117-W	115-W	WSU	196	10
G 429	04/21/78	13.7	9.8	3.9	45-N	43-N	120-W	118-W	WSU	206	2
G 414	04/16/78	13.7	10.4	3.3	47-N	49-N	126-W	128-W	WSU	199	0
G 426	04/20/78	18.9	9.1	9.8	47-N	50-N	125-W	128-W	WSU	166	2
G 412	04/14/78	15.2	8.2	7.0	50-N	47-N	127-W	124-W	WSU	201	0
G 428	04/20/78	16.8	9.1	7.7	52-N	48-N	132-W	127-W	WSU	196	29
G 415	04/16/78	13.7	9.8	3.9	57-N	59-N	141-W	145-W	WSU	193	0
G 427	04/20/78	16.8	9.3	7.5	60-N	58-N	148-W	141-W	WSU	184	0
G 422	04/19/78	3.1	9.1	-6.0	62-N	62-N	150-W	151-W	WSU	263	0
G 424	04/19/78	6.1	9.1	-3.0	62-N	62-N	150-W	151-W	WSU	262	0
G 423	04/19/78	9.1	9.1	0.0	62-N	62-N	151-W	151-W	WSU	259	0
G 425	04/19/78	12.2	9.1	3.1	62-N	62-N	151-W	151-W	WSU	213	0
G 418	04/17/78	19.2	9.8	9.4	62-N	58-N	150-W	151-W	WSU	144	0
G 420	04/18/78	15.2	11.1	4.1	71-N	75-N	152-W	151-W	WSU	146	0
G 421	04/18/78	18.7	11.1	7.6	75-N	71-N	151-W	151-W	WSU	154	0
G 487	07/29/78	16.8	15.9	.9	2-N	6-N	80-W	80-W	WSU	245	0
G 453	07/29/78	19.2	16.8	2.4	2-N	5-N	80-W	80-W	WSU	222	1
G 493	07/29/78	15.2	16.8	-1.6	6-N	3-N	80-W	80-W	WSU	254	2
G 488	07/29/78	18.3	15.9	2.4	6-N	2-N	80-W	80-W	WSU	230	0
G 496	07/30/78	6.1	17.1	-11.0	8-N	8-N	79-W	79-W	WSU	260	0
G 497	07/30/78	9.1	17.1	-8.0	8-N	9-N	79-W	79-W	WSU	259	0
G 491	07/31/78	13.7	16.5	-2.8	8-N	10-N	80-W	81-W	WSU	252	4
G 484	07/30/78	3.1	17.0	-13.9	9-N	9-N	80-W	80-W	WSU	256	6
G 492	07/30/78	12.2	17.1	-4.9	9-N	9-N	79-W	79-W	WSU	259	1
G 489	07/31/78	13.7	15.9	-2.2	12-N	15-N	82-W	83-W	WSU	258	2
G 485	07/25/78	16.8	14.6	2.2	12-N	15-N	80-W	80-W	WSU	238	3
G 495	07/31/78	13.7	14.9	-1.2	24-N	26-N	88-W	90-W	WSU	258	2
G 451	07/20/78	18.3	15.0	3.3	24-N	27-N	94-W	94-W	WSU	206	2
G 456	07/24/78	15.2	13.7	1.5	27-N	25-N	92-W	89-W	WSU	252	2
G 450	07/11/78	3.1	15.4	-12.3	29-N	29-N	95-W	95-W	WSU	266	0
G 455	07/11/78	9.1	15.4	-6.3	29-N	29-N	95-W	95-W	WSU	275	0
G 458	07/11/78	13.7	15.4	-1.7	29-N	29-N	95-W	95-W	WSU	273	2
G 465	07/11/78	15.2	15.4	-.2	29-N	29-N	94-W	94-W	WSU	262	1
G 472	07/19/78	13.7	14.6	-.9	36-N	34-N	104-W	101-W	WSU	261	1
G 464	07/21/78	16.8	14.9	1.9	36-N	39-N	93-W	93-W	WSU	232	1
G 463	07/21/78	19.2	14.9	4.3	39-N	36-N	93-W	93-W	WSU	186	0
G 467	07/19/78	13.7	15.2	-1.5	42-N	40-N	112-W	109-W	WSU	256	1

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 477	07/19/78	13.7	11.3	2.4	45-N	44-N	118-W	115-W	WSU	244	0
G 449	07/14/78	13.7	13.7	0	47-N	49-N	124-W	125-W	WSU	250	0
G 457	07/12/78	15.2	11.3	3.9	47-N	49-N	121-W	126-W	WSU	218	0
G 471	07/18/78	19.2	11.1	8.1	47-N	50-N	131-W	129-W	WSU	156	0
G 470	07/18/78	16.8	11.4	5.4	52-N	49-N	138-W	135-W	WSU	222	2
G 476	07/18/78	16.8	11.4	5.4	60-N	57-N	146-W	143-W	WSU	200	1
G 480	07/15/78	18.3	10.5	7.8	61-N	58-N	150-W	150-W	WSU	144	2
G 469	07/17/78	12.2	10.5	1.7	65-N	65-N	144-W	144-W	WSU	232	1
G 473	07/17/78	3.1	9.8	-6.7	66-N	66-N	144-W	144-W	WSU	271	2
G 478	07/17/78	6.1	10.4	-4.3	66-N	66-N	145-W	144-W	WSU	273	4
G 482	07/11/78	9.1	9.8	-.7	66-N	66-N	145-W	145-W	WSU	268	1
G 466	07/15/78	12.2	9.8	2.4	71-N	73-N	149-W	149-W	WSU	229	2
G 475	07/16/78	15.2	9.8	5.4	71-N	74-N	149-W	148-W	WSU	209	2
G 474	07/15/78	16.8	9.8	7.0	74-N	71-N	150-W	149-W	WSU	180	2
G 481	07/16/78	19.2	9.8	9.4	75-N	72-N	149-W	150-W	WSU	155	1
G 551	10/19/78	16.8	16.2	.6	2-N	6-N	80-W	80-W	WSU	254	0
G 544	10/20/78	13.7	15.5	-1.8	10-N	15-N	80-W	83-W	WSU	281	0
G 552	10/20/78	13.7	15.5	-1.8	11-N	16-N	81-W	83-W	WSU	270	1
G 538	10/18/78	16.8	16.2	.6	12-N	15-N	81-W	83-W	WSU	255	0
G 508	10/16/78	15.2	16.2	-1.0	15-N	12-N	83-W	81-W	WSU	264	3
G 549	10/18/78	19.2	16.2	3.0	15-N	12-N	83-W	82-W	WSU	210	0
G 514	10/20/78	13.7	15.5	-1.8	24-N	25-N	88-W	89-W	WSU	260	0
G 515	10/13/78	18.3	15.5	2.8	24-N	27-N	95-W	95-W	WSU	211	0
G 510	10/13/78	19.2	15.0	4.2	24-N	27-N	95-W	95-W	WSU	215	2
G 517	10/16/78	15.2	15.5	-.3	27-N	25-N	92-W	89-W	WSU	257	2
G 504	10/13/78	16.8	15.0	1.8	27-N	24-N	95-W	95-W	WSU	243	1
G 554	10/11/78	3.1	16.2	-13.1	29-N	29-N	95-W	95-W	WSU	278	0
G 555	10/11/78	9.1	16.2	-7.1	29-N	29-N	95-W	94-W	WSU	264	0
G 556	10/11/78	13.7	16.2	-2.5	29-N	29-N	94-W	94-W	WSU	264	0
G 557	10/11/78	15.2	16.2	-1.0	29-N	29-N	94-W	94-W	WSU	250	0
G 529	11/07/78	13.7	13.0	.7	36-N	33-N	102-W	99-W	WSU	247	0
G 503	10/14/78	16.8	12.2	4.6	36-N	39-N	93-W	93-W	WSU	192	1
G 512	10/30/78	15.2	15.1	.1	37-N	39-N	106-W	108-W	WSU	246	0
G 547	11/07/78	13.7	12.8	.9	39-N	37-N	107-W	104-W	OGC	270	0
G 519	10/14/78	19.2	12.1	7.1	39-N	36-N	93-W	93-W	WSU	183	5
G 522	11/07/78	13.7	12.8	.9	42-N	40-N	111-W	108-W	WSU	257	0
G 506	11/07/78	13.7	13.7	0	45-N	44-N	117-W	114-W	WSU	258	0
G 548	10/31/78	13.7	12.8	.9	47-N	49-N	128-W	129-W	WSU	258	1
G 513	10/30/78	15.2	12.7	2.5	47-N	49-N	121-W	126-W	WSU	235	3
G 526	11/06/78	19.0	12.5	6.5	50-N	47-N	128-W	123-W	WSU	187	0
G 527	11/06/78	16.8	12.5	4.3	52-N	49-N	132-W	129-W	WSU	232	1
G 507	10/31/78	13.7	9.5	4.2	58-N	59-N	141-W	144-W	WSU	228	2
G 536	11/06/78	16.8	8.2	8.6	60-N	58-N	147-W	142-W	WSU	226	2

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 518	11/02/78	3.1	9.1	-6.0	61-N	61-N	158-W	158-W	WSU	281	2
G 539	11/02/78	6.1	9.1	-3.0	61-N	61-N	157-W	157-W	WSU	280	3
G 531	11/02/78	9.1	9.1	0	61-N	60-N	157-W	156-W	WSU	258	3
G 546	11/02/78	12.2	9.1	3.1	61-N	61-N	159-W	157-W	WSU	258	1
G 525	11/01/78	19.2	9.1	10.1	61-N	58-N	150-W	149-W	WSU	115	1
G 528	11/01/78	12.2	10.1	2.1	71-N	74-N	150-W	150-W	WSU	236	0
G 545	11/05/78	15.2	9.1	6.1	71-N	71-N	150-W	150-W	WSU	206	7
G 520	11/01/78	16.8	10.1	6.7	75-N	72-N	151-W	151-W	WSU	168	0
G 523	11/05/78	18.8	9.1	9.7	75-N	72-N	151-W	151-W	WSU	90	5
G 591	04/11/79	16.8	16.5	.3	2-N	6-N	80-W	80-W	WSU	276	0
G 511	04/11/79	19.2	16.8	2.4	2-N	6-N	80-W	80-W	OGC	233	0
G 583	04/12/79	3.1	16.2	-13.1	6-N	6-N	81-W	81-W	WSU	276	0
G 589	04/12/79	6.1	16.2	-10.1	6-N	6-N	81-W	81-W	WSU	284	0
G 587	04/12/79	9.1	16.2	-7.1	6-N	6-N	81-W	81-W	WSU	282	0
G 586	04/12/79	12.2	16.2	-4.0	6-N	6-N	81-W	81-W	WSU	284	1
G 581	04/11/79	15.2	16.8	-1.6	6-N	3-N	80-W	80-W	WSU	278	0
G 537	04/11/79	18.3	16.8	1.5	6-N	2-N	80-W	80-W	WSU	257	0
G 590	04/13/79	13.7	17.1	-3.4	7-N	9-N	80-W	80-W	WSU	275	2
G 579	04/13/79	13.7	17.1	-3.4	12-N	15-N	81-W	83-W	WSU	281	0
G 584	04/10/79	16.8	16.5	.3	12-N	15-N	79-W	79-W	WSU	275	0
G 595	04/09/79	15.2	16.2	-1.0	15-N	12-N	83-W	82-W	WSU	281	1
G 580	04/10/79	19.2	16.5	2.7	15-N	12-N	79-W	79-W	OGC	241	0
G 578	04/13/79	13.7	14.2	-.5	24-N	26-N	88-W	90-W	OGC	285	1
G 606	04/18/79	18.3	12.1	6.2	24-N	27-N	93-W	94-W	WSU	228	0
G 598	04/18/79	19.2	12.1	7.1	24-N	27-N	94-W	94-W	WSU	203	1
G 594	04/09/79	15.2	16.3	-1.1	27-N	25-N	92-W	89-W	WSU	269	1
G 543	04/05/79	3.1	15.6	-12.5	29-N	30-N	95-W	94-W	WSU	293	0
G 540	04/05/79	9.1	15.6	-6.5	29-N	29-N	94-W	94-W	WSU	283	0
G 509	04/05/79	13.7	15.6	-1.9	29-N	29-N	94-W	94-W	OGC	268	0
G 516	04/05/79	15.2	16.8	-1.6	29-N	29-N	94-W	94-W	WSU	273	0
G 560	04/25/79	13.7	12.3	1.4	36-N	33-N	103-W	99-W	WSU	252	0
G 521	04/06/79	16.8	12.6	4.2	36-N	39-N	93-W	93-W	OGC	236	1
G 582	04/10/79	15.2	12.9	2.3	37-N	40-N	107-W	111-W	OGC	265	2
G 562	04/25/79	13.7	12.6	1.1	39-N	36-N	107-W	103-W	WSU	235	1
G 532	04/06/79	19.2	12.6	6.6	39-N	36-N	93-W	93-W	OGC	140	1
G 561	04/25/79	13.7	12.5	1.2	42-N	40-N	112-W	108-W	WSU	240	2
G 566	04/25/79	13.7	11.3	2.4	45-N	42-N	118-W	112-W	WSU	239	0
G 609	04/20/79	13.7	9.7	4.0	47-N	52-N	124-W	132-W	WSU	240	1
G 577	04/19/79	15.2	9.7	5.5	47-N	50-N	122-W	128-W	WSU	246	1
G 567	04/24/79	19.2	10.7	8.5	47-N	50-N	126-W	128-W	OGC	180	1
G 565	04/24/79	16.8	11.2	5.6	52-N	49-N	131-W	127-W	WSU	204	2
G 585	04/20/79	13.7	12.5	1.2	57-N	59-N	140-W	144-W	WSU	239	2
G 568	04/24/79	16.8	12.1	4.7	60-N	57-N	143-W	136-W	OGC	199	2

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 572	04/22/79	19.2	11.8	7.4	61-N	58-N	150-W	150-W	WSU	154	0
G 574	04/21/79	3.1	12.2	-9.1	62-N	62-N	146-W	146-W	WSU	288	0
G 571	04/21/79	6.1	11.6	-5.5	62-N	62-N	145-W	145-W	WSU	289	0
G 524	04/21/79	10.7	12.6	-1.9	62-N	62-N	145-W	145-W	WSU	288	0
G 569	04/21/79	12.2	12.6	-.4	63-N	62-N	145-W	145-W	WSU	282	1
G 573	04/23/79	15.2	9.7	5.5	71-N	75-N	148-W	147-W	WSU	177	1
G 570	04/24/79	16.8	9.7	7.1	75-N	71-N	147-W	148-W	OGC	165	3
G 576	04/23/79	18.6	9.7	8.9	75-N	71-N	149-W	148-W	OGC	179	2
G 612	08/01/79	18.3	15.5	2.8	24-N	27-N	88-W	91-W	WSU	219	0
G 604	07/06/79	19.2	16.2	3.0	24-N	27-N	87-W	92-W	WSU	187	0
G 611	08/01/79	13.7	15.5	-1.8	27-N	24-N	91-W	87-W	WSU	250	2
G 588	07/16/79	15.2	15.6	-.4	28-N	29-N	94-W	95-W	WSU	255	0
G 602	07/06/79	15.2	15.2	0	28-N	26-N	93-W	90-W	WSU	267	0
G 600	07/16/79	3.1	15.6	-12.5	29-N	29-N	95-W	95-W	WSU	275	0
G 607	07/16/79	9.1	15.6	-6.5	29-N	29-N	94-W	94-W	WSU	280	0
G 593	07/16/79	13.7	15.6	-1.9	29-N	29-N	94-W	95-W	WSU	272	2
G 603	07/16/79	16.8	15.6	1.2	29-N	29-N	94-W	94-W	WSU	264	0
G 627	07/24/79	13.7	14.6	-.9	36-N	33-N	103-W	100-W	WSU	297	0
G 597	07/03/79	16.8	15.5	1.3	36-N	39-N	96-W	94-W	WSU	251	0
G 610	07/18/79	15.2	15.9	-.7	37-N	39-N	104-W	108-W	WSU	256	0
G 626	07/24/79	13.7	14.7	-1.0	38-N	36-N	105-W	103-W	WSU	267	0
G 608	07/03/79	19.2	15.8	3.4	39-N	36-N	96-W	97-W	WSU	175	1
G 625	07/24/79	13.7	14.9	-1.2	42-N	39-N	112-W	108-W	WSU	244	1
G 624	07/24/79	13.7	13.2	.5	45-N	42-N	118-W	112-W	WSU	246	1
G 601	07/19/79	13.7	12.0	1.7	47-N	49-N	124-W	126-W	OGC	288	1
G 592	07/18/79	15.2	11.0	4.2	47-N	49-N	121-W	121-W	WSU	257	0
G 623	07/23/79	19.2	11.3	7.9	50-N	47-N	125-W	124-W	WSU	180	0
G 622	07/23/79	16.8	11.3	5.5	52-N	48-N	130-W	125-W	WSU	219	2
G 575	07/19/79	13.7	10.5	3.2	57-N	60-N	140-W	147-W	WSU	233	0
G 621	07/23/79	16.8	11.3	5.5	60-N	58-N	143-W	137-W	WSU	204	0
G 615	07/22/79	19.2	10.3	8.9	61-N	58-N	150-W	157-W	WSU	160	0
G 618	07/20/79	3.1	10.3	-7.2	62-N	62-N	151-W	152-W	WSU	293	0
G 619	07/20/79	6.1	10.3	-4.2	62-N	63-N	151-W	152-W	WSU	280	0
G 599	07/20/79	9.1	10.1	-1.0	63-N	64-N	152-W	152-W	WSU	284	0
G 620	07/20/79	12.2	10.3	1.9	63-N	62-N	152-W	151-W	WSU	242	0
G 613	07/22/79	12.2	10.4	1.8	70-N	74-N	148-W	148-W	WSU	239	0
G 616	07/21/79	15.2	11.9	3.3	71-N	75-N	149-W	148-W	WSU	236	0
G 614	07/22/79	16.8	10.4	6.4	75-N	71-N	149-W	149-W	WSU	198	2
G 696	11/12/79	16.8	16.6	.2	2-N	6-N	80-W	80-W	WSU	275	0
G 690	11/12/79	19.2	16.6	2.6	2-N	6-N	80-W	80-W	WSU	250	0
G 699	11/12/79	15.2	16.6	-1.4	6-N	3-N	79-W	80-W	WSU	277	0
G 705	11/18/79	13.8	17.1	-3.3	7-N	10-N	80-W	81-W	WSU	274	1
G 697	11/10/79	9.1	16.6	-7.5	8-N	8-N	78-W	79-W	WSU	279	0

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 698	11/10/79	12.2	16.6	-4.4	8-N	9-N	78-W	79-W	WSU	281	0
G 694	11/09/79	3.1	16.6	-13.5	9-N	8-N	79-W	79-W	WSU	283	0
G 695	11/09/79	6.1	16.6	-10.5	9-N	9-N	79-W	80-W	WSU	282	0
G 692	11/09/79	9.1	16.6	-7.5	9-N	9-N	79-W	79-W	WSU	277	0
G 707	11/18/79	13.7	16.2	-2.5	10-N	13-N	81-W	82-W	WSU	277	0
G 701	11/14/79	16.8	16.3	.5	12-N	15-N	79-W	79-W	WSU	262	0
G 702	11/14/79	19.1	16.3	2.8	14-N	12-N	79-W	79-W	WSU	242	0
G 693	11/07/79	15.2	16.2	-1.0	15-N	12-N	83-W	82-W	WSU	285	0
G 706	11/18/79	13.7	15.1	-1.4	24-N	26-N	88-W	90-W	WSU	283	0
G 688	11/06/79	18.0	17.4	.6	24-N	27-N	94-W	94-W	WSU	261	1
G 689	11/06/79	19.0	17.4	1.6	24-N	27-N	94-W	94-W	WSU	225	0
G 691	11/07/79	15.2	14.6	.6	27-N	25-N	92-W	89-W	WSU	278	0
G 687	11/06/79	16.8	17.4	-.6	27-N	24-N	94-W	94-W	WSU	272	0
G 663	10/10/79	3.1	15.3	-12.2	28-N	28-N	96-W	96-W	WSU	315	1
G 664	10/10/79	9.1	15.3	-6.2	28-N	28-N	95-W	95-W	WSU	280	0
G 666	10/10/79	15.2	15.3	-.1	28-N	29-N	96-W	95-W	WSU	296	1
G 665	10/10/79	13.7	15.3	-1.6	29-N	28-N	95-W	96-W	WSU	283	0
G 681	10/22/79	13.7	13.7	0	36-N	33-N	103-W	99-W	WSU	279	1
G 667	10/11/79	16.8	14.4	2.4	36-N	39-N	93-W	93-W	WSU	238	0
G 669	10/15/79	15.3	10.9	4.4	37-N	39-N	107-W	109-W	WSU	283	1
G 676	10/22/79	13.7	12.3	1.4	39-N	37-N	107-W	104-W	WSU	273	1
G 668	10/11/79	19.2	14.4	4.8	39-N	36-N	93-W	93-W	WSU	135	0
G 686	10/22/79	13.7	12.2	1.5	42-N	40-N	112-W	108-W	WSU	274	2
G 629	11/07/78	13.7	12.2	1.5	42-N	40-N	111-W	108-W	WSU	257	3
G 628	11/07/78	13.7	13.7	0	45-N	44-N	117-W	114-W	WSU	258	0
G 685	10/22/79	13.7	13.7	0	45-N	44-N	118-W	115-W	WSU	266	0
G 671	10/16/79	13.7	10.3	3.4	47-N	49-N	124-W	126-W	WSU	265	1
G 670	10/15/79	15.1	10.9	4.2	47-N	49-N	121-W	125-W	WSU	257	3
G 684	10/21/79	13.7	10.0	3.7	52-N	50-N	131-W	128-W	WSU	257	0
G 672	10/16/79	13.7	10.8	2.9	57-N	59-N	139-W	143-W	WSU	254	0
G 683	10/21/79	13.7	10.0	3.7	60-N	58-N	147-W	142-W	WSU	232	0
G 675	10/17/79	18.6	10.0	8.6	61-N	58-N	150-W	151-W	WSU	112	0
G 673	10/17/79	12.2	10.3	1.9	71-N	74-N	148-W	147-W	WSU	278	0
G 677	10/18/79	15.2	10.3	4.9	71-N	74-N	150-W	149-W	WSU	240	0
G 674	10/17/79	17.0	10.3	6.7	75-N	71-N	148-W	147-W	WSU	171	1
G 678	10/18/79	18.3	10.3	8.0	75-N	71-N	150-W	150-W	WSU	116	1
G 763	04/16/80	15.2	17.1	-1.9	2-N	2-N	80-W	80-W	WSU	285	2
G 764	04/16/80	16.8	17.1	-.3	2-N	6-N	80-W	80-W	WSU	313	2
G 762	04/16/80	15.2	17.1	-1.9	6-N	2-N	75-W	80-W	WSU	283	2
G 753	04/16/80	18.3	17.1	1.2	6-N	3-N	79-W	80-W	WSU	275	2
G767	04/17/80	3.1	17.1	-14.0	7-N	7-N	80-W	80-W	WSU	284	0
G766	04/17/80	6.1	17.1	-11.0	7-N	7-N	80-W	81-W	WSU	288	0
G768	04/17/80	12.2	17.1	-4.9	7-N	7-N	80-W	81-W	WSU	308	1

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 771	04/18/80	13.7	17.2	-3.5	7-N	9-N	79-W	80-W	WSU	287	0
G 765	04/17/80	9.1	17.1	-8.0	8-N	6-N	80-W	80-W	WSU	291	2
G 769	04/18/80	13.7	17.2	-3.5	12-N	15-N	81-W	83-W	WSU	303	0
G 759	04/15/80	16.8	17.2	-4	12-N	15-N	79-W	79-W	WSU	264	0
G 760	04/15/80	19.2	17.2	2.0	14-N	12-N	79-W	80-W	WSU	262	1
G 761	04/15/80	19.2	17.2	2.0	15-N	12-N	79-W	80-W	WSU	234	1
G 770	04/18/80	13.7	12.2	1.5	24-N	26-N	88-W	89-W	WSU	281	0
G 751	04/09/80	18.3	16.8	1.5	24-N	27-N	94-W	94-W	WSU	248	0
G 752	04/09/80	19.2	16.8	2.4	24-N	27-N	94-W	94-W	WSU	248	0
G 757	04/14/80	15.2	17.4	-2.2	27-N	25-N	92-W	89-W	WSU	274	0
G 750	04/09/80	16.8	16.8	0	27-N	24-N	94-W	94-W	WSU	263	2
G 785	05/09/80	13.7	11.9	1.8	36-N	34-N	104-W	101-W	WSU	282	1
G 754	04/10/80	16.8	11.0	5.8	36-N	39-N	93-W	93-W	WSU	240	1
G 774	04/22/80	15.2	11.7	3.5	37-N	39-N	104-W	108-W	WSU	253	1
G 756	04/10/80	19.2	11.0	8.2	39-N	36-N	94-W	94-W	WSU	184	3
G 787	05/09/80	13.7	9.8	3.9	42-N	40-N	112-W	109-W	WSU	276	0
G 786	05/09/80	13.7	9.5	4.2	45-N	43-N	118-W	114-W	WSU	245	3
G 773	04/23/80	13.7	11.0	2.7	47-N	50-N	124-W	127-W	WSU	234	1
G 775	04/22/80	15.2	10.9	4.3	47-N	49-N	121-W	125-W	WSU	233	1
G 783	05/08/80	16.8	10.0	6.8	52-N	49-N	138-W	135-W	WSU	191	0
G 777	04/23/80	13.7	9.6	4.1	57-N	59-N	140-W	145-W	WSU	202	0
G 781	05/08/80	16.8	9.1	7.7	60-N	57-N	146-W	142-W	WSU	193	0
G 778	04/24/80	12.2	8.7	3.5	70-N	74-N	148-W	148-W	WSU	218	2
G 772	04/25/80	15.2	9.1	6.1	71-N	75-N	150-W	149-W	WSU	136	0
G 780	04/24/80	16.8	8.7	8.1	75-N	71-N	148-W	148-W	WSU	189	0
G 782	04/25/80	18.3	9.1	9.2	75-N	71-N	149-W	149-W	WSU	141	0
G 895	07/31/80	18.3	16.5	1.8	2-N	6-N	80-W	80-W	OGC	299	2
G 889	07/31/80	16.0	16.5	-5	6-N	2-N	80-W	80-W	OGC	300	1
G 863	07/29/80	9.2	16.5	-7.3	7-N	7-N	79-W	79-W	OGC	307	1
G 899	08/01/80	15.3	16.5	-1.2	7-N	10-N	80-W	81-W	OGC	312	0
G 892	07/29/80	6.1	16.5	-10.4	8-N	8-N	79-W	79-W	OGC	310	1
G 888	07/29/80	12.2	16.5	-4.3	8-N	7-N	79-W	79-W	OGC	310	0
G 866	07/29/80	3.1	16.5	-13.4	9-N	9-N	79-W	79-W	OGC	300	1
G 896	08/01/80	15.3	16.5	-1.2	12-N	15-N	82-W	83-W	OGC	311	3
G 897	07/30/80	16.8	16.5	.3	12-N	15-N	79-W	79-W	OGC	290	0
G 851	07/28/80	15.3	16.5	-1.2	15-N	12-N	83-W	81-W	OGC	298	0
G 886	07/30/80	19.2	16.5	2.7	15-N	12-N	79-W	79-W	OGC	238	1
G 900	08/01/80	19.2	15.0	4.2	24-N	27-N	88-W	92-W	OGC	248	1
G 861	07/25/80	18.9	15.1	3.8	25-N	28-N	94-W	94-W	OGC	233	1
G 854	07/28/80	15.3	15.0	.3	27-N	25-N	92-W	89-W	OGC	284	1
G 855	07/25/80	16.7	15.0	1.7	27-N	24-N	94-W	94-W	OGC	284	0
G 853	07/25/80	18.1	15.0	3.1	27-N	24-N	94-W	94-W	OGC	262	1
G 865	07/23/80	3.1	15.5	-12.4	29-N	30-N	95-W	94-W	OGC	316	1

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 868	07/23/80	9.2	15.5	-6.3	29-N	30-N	94-W	94-W	OGC	319	2
G 860	07/23/80	13.7	14.0	- .3	29-N	29-N	95-W	94-W	OGC	308	0
G 850	08/05/80	15.3	13.7	1.6	37-N	39-N	105-W	108-W	OGC	287	2
G 857	08/05/80	15.3	10.1	5.2	45-N	47-N	116-W	120-W	OGC	259	2
G 875	08/11/80	19.2	10.4	8.8	50-N	47-N	128-W	125-W	OGC	172	0
G 880	08/10/80	15.3	10.7	4.6	51-N	48-N	152-W	152-W	OGC	254	0
G 869	08/11/80	16.8	10.4	6.4	52-N	48-N	138-W	135-W	OGC	250	1
G 874	08/10/80	19.1	10.4	8.7	55-N	58-N	152-W	152-W	OGC	155	0
G 867	08/06/80	13.7	11.0	2.7	57-N	59-N	140-W	145-W	OGC	296	1
G 873	08/10/80	15.3	10.4	4.9	58-N	55-N	152-W	152-W	OGC	251	0
G 882	08/11/80	16.8	11.3	5.5	60-N	57-N	146-W	142-W	OGC	247	1
G 881	08/07/80	12.2	9.8	2.4	71-N	75-N	148-W	148-W	OGC	218	2
G 871	08/09/80	15.3	10.1	5.2	71-N	75-N	148-W	148-W	OGC	254	0
G 870	08/07/80	16.8	9.5	7.3	75-N	71-N	149-W	148-W	OGC	273	2
G 876	08/09/80	18.2	10.1	8.1	75-N	71-N	148-W	148-W	OGC	156	5
G 914	10/25/80	15.3	17.0	-1.7	0-S	3-S	80-W	80-W	OGC	310	1
G 924	10/24/80	19.2	16.2	3.0	3-N	6-N	80-W	80-W	OGC	270	0
G 913	10/25/80	18.3	17.0	1.3	3-S	0-S	80-W	80-W	OGC	289	1
G 952	10/24/80	19.2	16.8	2.4	3-S	0-S	80-W	80-W	OGC	274	2
G 936	10/17/80	12.2	16.5	-4.3	6-N	7-N	81-W	80-W	OGC	312	0
G 906	10/18/80	16.8	17.0	- .2	6-N	3-N	79-W	80-W	OGC	304	0
G 908	10/25/80	15.3	17.4	-2.1	6-S	7-S	79-W	79-W	OGC	301	0
G 928	10/24/80	16.8	17.2	- .4	6-S	3-S	79-W	80-W	OGC	308	0
G 907	10/25/80	18.3	17.4	.9	6-S	3-S	79-W	80-W	OGC	284	0
G 912	10/18/80	19.2	17.0	2.2	6-S	9-S	79-W	78-W	OGC	272	1
G 911	10/26/80	15.3	17.1	-1.8	9-N	12-N	81-W	82-W	OGC	314	1
G 943	10/17/80	18.3	16.5	1.8	10-N	7-N	81-W	81-W	OGC	281	0
G 910	10/18/80	19.5	17.0	2.5	12-S	15-S	77-W	77-W	OGC	219	0
G 933	10/24/80	9.2	17.4	-8.2	13-S	15-S	77-W	77-W	OGC	309	2
G 903	10/26/80	15.3	16.5	-1.2	16-N	19-N	82-W	82-W	OGC	314	0
G 902	10/19/80	13.7	17.4	-3.7	18-S	22-S	75-W	74-W	OGC	309	2
G 922	10/26/80	15.3	16.3	-1.0	19-N	22-N	85-W	86-W	OGC	258	0
G 947	10/17/80	18.3	16.5	1.8	19-N	16-N	84-W	83-W	OGC	278	1
G 937	10/16/80	18.9	16.1	2.8	19-N	22-N	94-W	94-W	OGC	258	0
G 946	10/17/80	15.3	16.5	-1.2	21-N	19-N	86-W	85-W	OGC	316	2
G 935	10/16/80	16.7	16.1	.6	22-N	19-N	95-W	95-W	OGC	299	0
G 901	10/26/80	18.3	15.7	2.6	24-N	27-N	87-W	92-W	OGC	261	1
G 909	10/19/80	16.8	17.4	- .6	24-S	27-S	73-W	73-W	OGC	289	1
G 923	10/23/80	19.7	15.6	4.1	24-S	21-S	73-W	74-W	OGC	260	0
G 921	10/16/80	16.8	15.9	.9	27-N	24-N	95-W	95-W	OGC	301	0
G 932	10/15/80	16.8	15.6	1.2	27-N	30-N	93-W	93-W	OGC	300	0
G 939	10/15/80	19.2	15.9	3.3	27-N	30-N	93-W	93-W	OGC	243	0
G 950	10/15/80	9.2	15.5	-6.3	30-N	27-N	93-W	93-W	OGC	316	0

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
G 931	10/15/80	18.3	15.6	2.7	30-N	27-N	93-W	93-W	OGC	258	0
G 905	10/19/80	16.8	11.9	4.9	30-S	33-S	67-W	61-W	OGC	276	0
G 940	10/23/80	15.4	11.2	4.2	32-S	31-S	63-W	65-W	OGC	300	0
G 938	10/23/80	13.9	11.1	2.8	33-S	33-S	59-W	61-W	OGC	302	1
G 904	10/19/80	9.5	11.9	-2.4	34-S	35-S	60-W	57-W	OGC	303	0
G 929	10/23/80	12.3	11.1	1.2	34-S	33-S	58-W	59-W	OGC	310	1
G 941	10/20/80	10.7	11.0	-.3	36-S	39-S	57-W	58-W	OGC	302	0
G 927	10/21/80	15.3	8.8	6.5	39-S	42-S	58-W	59-W	OGC	283	0
G 949	10/20/80	13.7	9.5	4.2	42-S	39-S	59-W	58-W	OGC	300	2
G 951	10/21/80	18.3	8.8	9.5	42-S	39-S	59-W	58-W	OGC	225	0
G 945	10/20/80	10.8	9.6	1.2	46-S	48-S	59-W	59-W	OGC	303	1
G 934	10/21/80	15.3	9.9	5.4	48-S	51-S	58-W	58-W	OGC	257	1
G 944	10/21/80	16.8	9.9	6.9	51-S	48-S	58-W	58-W	OGC	155	0
G 997	04/28/81	15.2	16.6	-1.4	19-N	23-N	94-W	94-W	OGC	309	1
G 994	04/28/81	13.7	16.6	-2.9	22-N	19-N	94-W	94-W	OGC	309	1
G 971	04/09/81	18.3	15.7	2.6	24-N	27-N	94-W	94-W	OGC	302	0
G 972	04/09/81	19.2	15.7	3.5	24-N	27-N	94-W	94-W	OGC	271	1
G 995	04/28/81	15.2	15.5	-.3	25-N	28-N	94-W	94-W	OGC	323	0
G 973	04/09/81	16.8	15.7	1.1	27-N	24-N	94-W	94-W	OGC	295	1
G 970	04/09/81	16.8	15.7	1.1	27-N	24-N	94-W	94-W	OGC	307	0
G 996	04/28/81	13.7	15.5	-1.8	28-N	25-N	94-W	94-W	OGC	314	0
G 990	04/27/81	13.7	12.9	.8	36-N	37-N	103-W	103-W	OGC	299	0
G 974	04/21/81	15.2	13.4	1.8	37-N	34-N	105-W	107-W	OGC	293	0
G 991	04/27/81	13.7	12.8	.9	39-N	36-N	107-W	103-W	OGC	298	2
G 975	04/21/81	15.2	12.3	2.9	39-N	40-N	107-W	108-W	OGC	269	0
G 992	04/27/81	13.7	11.7	2.0	42-N	39-N	112-W	107-W	OGC	302	0
G 993	04/27/81	13.7	10.8	2.9	45-N	42-N	117-W	112-W	OGC	265	0
G 977	04/22/81	13.7	12.8	.9	47-N	50-N	124-W	128-W	OGC	294	1
G 976	04/21/81	15.2	11.7	3.5	47-N	50-N	121-W	127-W	OGC	224	0
G 986	04/25/81	6.1	9.0	-2.9	63-N	62-N	155-W	156-W	OGC	327	1
G 983	04/25/81	9.1	9.0	.1	63-N	63-N	156-W	156-W	OGC	309	0
G 981	04/25/81	12.2	8.8	3.4	63-N	63-N	155-W	156-W	OGC	276	0
G 980	04/23/81	16.8	8.6	8.2	75-N	71-N	151-W	149-W	OGC	202	0
G 982	04/24/81	19.2	8.1	11.1	75-N	76-N	148-W	148-W	OGC	159	0
22056	07/24/81	19.2	14.5	4.7	1-N	3-N	80-W	80-W	OGC	309	0
22052	07/23/81	9.1	15.2	-6.1	7-N	7-N	80-W	80-W	OGC	312	4
22053	07/23/81	12.2	15.2	-3.0	7-N	7-N	80-W	80-W	OGC	315	0
22044	07/21/81	16.8	15.1	1.7	7-N	8-N	80-W	80-W	OGC	314	4
22051	07/23/81	3.1	15.2	-12.1	9-N	8-N	79-W	79-W	OGC	310	0
22057	07/25/81	13.7	14.7	-1.0	10-N	13-N	81-W	82-W	OGC	277	3
22043	07/20/81	15.2	15.5	-.3	10-N	7-N	80-W	79-W	OGC	324	1
22049	07/21/81	19.2	15.1	4.1	10-N	8-N	80-W	80-W	OGC	285	0
22045	07/21/81	16.8	15.1	1.7	13-N	14-N	79-W	79-W	OGC	314	2

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
22058	07/25/81	13.7	14.6	-.9	16-N	19-N	83-W	85-W	OGC	277	1
22046	07/21/81	16.8	15.2	1.6	16-N	17-N	79-W	79-W	OGC	303	2
22048	07/21/81	19.2	15.1	4.1	16-N	13-N	79-W	80-W	OGC	276	5
22042	07/20/81	15.2	15.4	-.2	19-N	16-N	85-W	83-W	OGC	313	0
22047	07/21/81	19.2	15.4	3.8	19-N	16-N	79-W	80-W	OGC	279	4
G 1036	07/28/81	19.2	15.2	4.0	19-N	22-N	94-W	94-W	OGC	269	0
G 1037	07/28/81	16.8	15.2	1.6	22-N	19-N	94-W	94-W	OGC	303	0
G 1038	07/28/81	19.2	16.3	2.9	25-N	28-N	94-W	94-W	OGC	263	1
22041	07/20/81	15.2	15.3	-.1	28-N	25-N	96-W	89-W	OGC	332	1
G 1035	07/28/81	16.8	16.3	.5	28-N	25-N	94-W	94-W	OGC	295	0
22001	07/16/81	12.2	15.4	-3.2	29-N	30-N	95-W	94-W	OGC	310	0
22002	07/16/81	16.8	15.4	1.4	29-N	29-N	95-W	94-W	OGC	281	2
G 1042	07/29/81	19.2	13.9	5.3	32-N	30-N	94-W	94-W	OGC	247	1
22018	07/14/81	13.7	15.6	-1.9	36-N	33-N	100-W	98-W	OGC	309	1
G 1040	07/29/81	19.2	15.2	4.0	37-N	33-N	94-W	94-W	OGC	231	0
G 1039	07/29/81	16.8	13.6	3.2	38-N	42-N	93-W	93-W	OGC	276	2
22017	07/14/81	13.7	15.2	-1.5	39-N	36-N	101-W	100-W	OGC	305	1
22033	07/08/81	15.2	15.5	-.3	39-N	42-N	105-W	113-W	OGC	327	1
22016	07/14/81	13.7	14.9	-1.2	41-N	39-N	104-W	101-W	OGC	303	3
22015	07/14/81	13.7	15.0	-1.3	45-N	41-N	115-W	108-W	OGC	303	0
22036	07/09/81	13.7	11.0	2.7	45-N	48-N	124-W	125-W	OGC	284	4
22034	07/08/81	15.2	11.3	3.9	45-N	48-N	117-W	124-W	OGC	322	0
G 1041	07/29/81	18.9	14.6	4.3	45-N	41-N	93-W	93-W	OGC	214	0
22035	07/08/81	15.2	11.3	3.9	48-N	50-N	124-W	128-W	OGC	309	3
22013	07/13/81	16.8	10.0	6.8	48-N	45-N	131-W	128-W	OGC	249	0
22014	07/13/81	18.9	10.7	8.2	50-N	47-N	129-W	124-W	OGC	188	1
22037	07/09/81	13.7	10.3	3.4	51-N	51-N	130-W	130-W	OGC	318	0
22012	07/13/81	16.8	10.7	6.1	54-N	51-N	139-W	136-W	OGC	236	1
22038	07/09/81	13.7	11.4	2.3	57-N	58-N	140-W	141-W	OGC	321	0
22039	07/09/81	13.7	11.9	1.8	58-N	59-N	141-W	142-W	OGC	318	1
22023	07/12/81	9.1	10.1	-1.0	60-N	60-N	150-W	151-W	OGC	342	0
22011	07/13/81	16.8	11.5	5.3	60-N	57-N	146-W	143-W	OGC	246	5
22022	07/12/81	3.1	10.1	-7.0	61-N	61-N	150-W	150-W	OGC	330	2
G 1031	07/11/81	15.2	9.7	5.5	62-N	66-N	150-W	148-W	OGC	267	2
G 1034	07/11/81	18.9	9.7	9.2	66-N	64-N	149-W	149-W	OGC	179	1
G 1033	07/11/81	15.2	9.0	6.2	71-N	74-N	149-W	148-W	OGC	260	2
G 1032	07/11/81	18.3	9.0	9.3	74-N	70-N	149-W	148-W	OGC	197	1
23052	10/26/81	15.2	17.1	-1.9	16-N	16-N	83-W	83-W	OGC	333	4
23051	10/26/81	15.2	16.6	-1.4	25-N	22-N	89-W	86-W	OGC	322	5
23001	10/14/81	3.1	15.8	-12.7	29-N	29-N	94-W	94-W	OGC	339	2
23002	10/14/81	9.1	15.8	-6.7	29-N	29-N	94-W	94-W	OGC	337	4
23003	10/14/81	12.2	15.8	-3.6	29-N	29-N	94-W	94-W	OGC	331	2
23004	10/14/81	16.8	15.8	1.0	29-N	29-N	94-W	94-W	OGC	318	2

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
23005	10/14/81	19.2	15.8	3.4	29-N	29-N	94-W	94-W	OGC	274	3
23006	10/15/81	16.8	13.6	3.2	34-N	35-N	93-W	93-W	OGC	320	2
23049	10/21/81	13.7	16.2	-2.5	36-N	35-N	103-W	102-W	OGC	322	2
23009	10/15/81	19.2	14.9	4.3	37-N	36-N	93-W	93-W	OGC	265	2
23048	10/21/81	13.7	11.5	2.2	39-N	38-N	108-W	107-W	OGC	311	2
23021	10/16/81	15.2	13.6	1.6	39-N	42-N	108-W	110-W	OGC	287	4
23008	10/15/81	19.2	12.6	6.6	41-N	40-N	93-W	93-W	OGC	250	2
23047	10/21/81	13.7	11.4	2.3	42-N	41-N	118-W	111-W	OGC	309	1
23007	10/15/81	16.8	11.6	5.2	42-N	43-N	94-W	94-W	OGC	310	2
23046	10/21/81	13.7	11.3	2.4	44-N	44-N	115-W	115-W	OGC	318	3
23022	10/16/81	15.2	12.0	3.2	48-N	50-N	123-W	128-W	OGC	323	0
23043	10/21/81	16.8	12.7	4.1	48-N	48-N	125-W	125-W	OGC	209	0
23042	10/21/81	16.8	12.4	4.4	51-N	48-N	137-W	135-W	OGC	283	1
23041	10/21/81	16.8	12.4	4.4	54-N	52-N	141-W	138-W	OGC	279	3
23034	10/20/81	16.8	11.8	5.0	59-N	59-N	152-W	152-W	OGC	267	1
23035	10/20/81	16.8	11.8	5.0	60-N	62-N	151-W	149-W	OGC	266	1
23027	10/18/81	19.2	9.4	9.8	61-N	58-N	150-W	150-W	OGC	160	2
23033	10/20/81	13.7	11.8	1.9	62-N	60-N	149-W	151-W	OGC	305	1
23036	10/20/81	19.2	11.8	7.4	63-N	61-N	148-W	151-W	OGC	185	1
23032	10/20/81	12.2	11.8	.4	64-N	62-N	148-W	149-W	OGC	307	0
23028	10/19/81	15.2	9.0	6.2	71-N	75-N	148-W	148-W	OGC	270	2
23026	10/18/81	16.8	9.0	7.8	75-N	71-N	149-W	149-W	OGC	240	2
23029	10/19/81	19.2	9.0	10.2	75-N	71-N	150-W	150-W	OGC	160	3
24034	04/21/82	18.3	17.2	1.1	1-N	1-N	80-W	80-W	OGC	323	5
24033	04/21/82	15.2	17.2	-2.0	3-N	3-N	80-W	80-W	OGC	335	1
24035	04/21/82	19.2	17.2	2.0	6-N	6-N	79-W	79-W	OGC	304	4
24037	04/22/82	6.1	17.2	-11.1	10-N	11-N	79-W	79-W	OGC	341	1
24038	04/22/82	12.2	17.1	-4.9	10-N	13-N	79-W	79-W	OGC	341	1
24039	04/22/82	19.2	17.1	2.1	12-N	9-N	80-W	80-W	OGC	297	3
24019	04/19/82	13.7	16.0	-2.3	13-N	13-N	82-W	82-W	OGC	336	3
24032	04/20/82	19.2	17.1	2.1	13-N	10-N	79-W	80-W	OGC	295	1
24018	04/19/82	13.7	16.0	-2.3	19-N	16-N	85-W	83-W	OGC	334	0
24021	04/23/82	15.2	17.2	-2.0	19-N	19-N	85-W	85-W	OGC	335	2
24031	04/20/82	19.2	16.9	2.3	19-N	17-N	79-W	79-W	OGC	236	3
24017	04/16/82	18.8	16.0	2.8	22-N	23-N	95-W	95-W	OGC	292	1
24015	04/16/82	16.8	16.0	.8	25-N	25-N	95-W	95-W	OGC	317	1
24011	04/15/82	6.1	14.7	-8.6	29-N	29-N	95-W	95-W	OGC	338	1
24012	04/15/82	12.2	14.7	-2.5	29-N	29-N	95-W	95-W	OGC	341	3
24013	04/15/82	16.8	14.7	2.1	29-N	29-N	94-W	95-W	OGC	301	1
24022	04/27/82	15.2	13.1	2.1	36-N	36-N	104-W	104-W	OGC	265	1
24055	05/07/82	15.2	11.0	4.2	39-N	39-N	108-W	108-W	OGC	284	2
24054	05/05/82	13.7	10.7	3.0	41-N	41-N	111-W	110-W	OGC	288	3
24059	05/07/82	19.2	10.7	8.5	41-N	41-N	109-W	109-W	OGC	202	0

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
24053	05/05/82	13.7	10.7	3.0	42-N	41-N	112-W	111-W	OGC	316	1
24056	05/07/82	16.8	10.4	6.4	43-N	43-N	108-W	108-W	OGC	192	2
24057	05/07/82	16.8	10.4	6.4	44-N	44-N	108-W	108-W	OGC	179	2
24023	04/27/82	15.2	12.4	2.8	45-N	45-N	118-W	118-W	OGC	283	0
24058	05/07/82	18.3	10.6	7.7	45-N	45-N	109-W	109-W	OGC	231	2
24052	05/04/82	19.2	11.6	7.6	47-N	50-N	131-W	130-W	OGC	197	1
24025	04/29/82	13.7	10.7	3.0	48-N	51-N	125-W	130-W	OGC	289	3
24026	04/28/82	13.7	8.8	4.9	54-N	57-N	135-W	139-W	OGC	228	1
24051	05/04/82	16.8	11.2	5.6	54-N	51-N	139-W	137-W	OGC	242	0
24046	05/03/82	6.1	9.2	-3.1	61-N	61-N	149-W	149-W	OGC	348	2
24045	05/02/82	19.2	9.5	9.7	61-N	58-N	150-W	150-W	OGC	187	1
24047	05/03/82	10.7	8.9	1.8	62-N	62-N	149-W	149-W	OGC	222	1
24048	05/03/82	12.2	8.9	3.3	62-N	62-N	149-W	149-W	OGC	260	2
24041	05/02/82	12.2	8.9	3.3	65-N	68-N	149-W	148-W	OGC	285	1
24044	05/02/82	16.8	8.9	7.9	68-N	65-N	148-W	148-W	OGC	145	1
24029	05/01/82	19.2	9.6	9.6	68-N	68-N	149-W	149-W	OGC	143	2
24042	05/02/82	12.2	9.5	2.7	71-N	75-N	149-W	148-W	OGC	256	0
24027	05/01/82	15.2	10.0	5.2	71-N	71-N	148-W	148-W	OGC	152	1
24028	05/01/82	18.7	9.8	8.9	75-N	75-N	148-W	148-W	OGC	165	1
25025	07/23/82	13.7	15.3	-1.6	8-N	8-N	80-W	80-W	OGC	346	2
25026	07/23/82	13.7	15.3	-1.6	10-N	10-N	80-W	80-W	OGC	352	2
25018	07/20/82	16.8	15.2	1.6	10-N	10-N	79-W	79-W	OGC	332	2
25027	07/23/82	13.7	14.9	-1.2	13-N	16-N	82-W	83-W	OGC	349	4
25028	07/23/82	13.7	14.7	-1.0	16-N	19-N	83-W	83-W	OGC	349	1
25017	07/19/82	15.2	14.4	.8	22-N	22-N	88-W	88-W	OGC	331	2
25015	07/16/82	16.8	15.5	1.3	22-N	19-N	94-W	94-W	OGC	328	2
25011	07/15/82	12.2	15.0	-2.8	30-N	30-N	95-W	95-W	OGC	356	1
25012	07/15/82	13.7	15.0	-1.3	30-N	30-N	95-W	95-W	OGC	341	1
25013	07/15/82	16.8	15.0	1.8	30-N	30-N	95-W	95-W	OGC	294	1
25014	07/15/82	19.2	15.0	4.2	30-N	30-N	95-W	95-W	OGC	239	0
25059	08/03/82	19.3	15.0	4.3	33-N	33-N	93-W	93-W	OGC	257	2
25056	08/02/82	13.7	11.8	1.9	42-N	42-N	112-W	112-W	OGC	332	0
25031	07/27/82	15.2	15.1	.1	42-N	42-N	111-W	111-W	OGC	313	1
25058	08/03/82	19.3	11.2	8.1	45-N	45-N	93-W	93-W	OGC	200	3
25055	08/01/82	18.8	10.4	8.4	47-N	48-N	131-W	131-W	OGC	208	0
25054	08/01/82	16.8	10.4	6.4	48-N	48-N	135-W	135-W	OGC	296	2
25053	08/01/82	16.8	10.6	6.2	53-N	52-N	138-W	138-W	OGC	281	2
25033	07/28/82	13.7	11.8	1.9	54-N	54-N	135-W	135-W	OGC	293	1
25052	08/01/82	16.8	10.6	6.2	54-N	53-N	139-W	139-W	OGC	281	2
25041	07/30/82	15.2	11.3	3.9	58-N	59-N	151-W	151-W	OGC	301	2
25045	07/31/82	6.1	11.3	-5.2	60-N	60-N	151-W	151-W	OGC	360	2
25046	07/31/82	9.1	11.3	-2.2	60-N	60-N	153-W	153-W	OGC	361	3
25051	08/01/82	16.8	10.2	6.6	60-N	59-N	146-W	146-W	OGC	259	1

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
25048	07/31/82	16.8	11.3	5.5	61-N	59-N	152-W	152-W	OGC	245	1
25039	07/29/82	18.6	12.1	6.5	61-N	60-N	150-W	150-W	OGC	167	1
25035	07/29/82	12.2	10.9	1.3	71-N	71-N	148-W	148-W	OGC	300	0
25042	07/30/82	15.2	10.1	5.1	71-N	72-N	144-W	144-W	OGC	263	3
25038	07/29/82	16.8	10.9	5.9	71-N	69-N	150-W	150-W	OGC	236	1
25036	07/29/82	12.2	10.9	1.3	72-N	72-N	148-W	148-W	OGC	307	1
25037	07/29/82	16.8	10.7	6.1	75-N	74-N	150-W	150-W	OGC	233	2
25043	07/30/82	18.3	9.8	8.5	75-N	74-N	148-W	148-W	OGC	181	1
26058	10/29/82	18.3	17.2	1.1	0	0	79-W	79-W	OGC	337	3
26054	10/27/82	19.9	16.2	3.7	0	0	79-W	79-W	OGC	302	2
26051	10/27/82	16.8	16.2	.6	3-N	3-N	79-W	79-W	OGC	337	2
26055	10/29/82	15.2	17.2	-2.0	3-S	3-S	79-W	79-W	OGC	343	0
26037	10/26/82	16.8	15.6	1.2	7-N	7-N	79-W	79-W	OGC	341	2
26056	10/29/82	15.2	17.2	-2.0	7-S	7-S	78-W	78-W	OGC	346	1
26052	10/27/82	16.8	16.2	.6	7-S	7-S	78-W	78-W	OGC	344	1
26038	10/26/82	19.2	15.6	3.6	10-N	10-N	79-W	79-W	OGC	316	1
26057	10/29/82	18.3	17.4	.9	10-S	10-S	77-W	77-W	OGC	303	1
26053	10/27/82	19.2	16.2	3.0	10-S	10-S	77-W	77-W	OGC	296	1
26059	10/30/82	13.7	16.8	-3.1	13-N	13-N	82-W	82-W	OGC	345	1
26033	10/22/82	18.7	16.0	2.7	19-N	19-N	93-W	93-W	OGC	274	3
26032	10/22/82	16.8	15.5	1.3	22-N	22-N	93-W	93-W	OGC	336	2
26013	10/13/82	15.2	15.5	-.3	27-N	27-N	96-W	96-W	OGC	350	2
26031	10/22/82	16.5	14.6	1.9	27-N	27-N	93-W	93-W	OGC	323	2
26015	10/13/82	19.2	15.7	3.5	27-N	27-N	96-W	96-W	OGC	227	1
26011	10/13/82	6.1	15.7	-9.6	29-N	29-N	93-W	93-W	OGC	361	1
26012	10/13/82	12.5	15.7	-3.2	29-N	29-N	91-W	91-W	OGC	348	1
26014	10/13/82	16.8	15.7	1.1	29-N	29-N	93-W	93-W	OGC	331	2
26016	10/14/82	16.8	11.5	5.3	34-N	38-N	92-W	93-W	OGC	324	3
26021	10/15/82	15.2	13.2	2.0	36-N	36-N	104-W	104-W	OGC	330	1
26019	10/14/82	19.2	11.5	7.7	37-N	33-N	93-W	93-W	OGC	257	1
26049	10/21/82	13.7	12.2	1.5	39-N	39-N	108-W	108-W	OGC	343	1
26022	10/15/82	15.2	13.6	1.6	42-N	42-N	112-W	112-W	OGC	334	1
26017	10/14/82	16.8	15.0	1.8	42-N	45-N	93-W	93-W	OGC	313	2
26024	10/16/82	13.7	10.0	3.7	45-N	48-N	123-W	124-W	OGC	345	2
26018	10/14/82	19.2	15.0	4.2	45-N	41-N	93-W	93-W	OGC	228	0
26048	10/20/82	15.2	11.1	4.1	50-N	47-N	128-W	123-W	OGC	316	1
26047	10/20/82	16.8	11.5	5.3	54-N	51-N	139-W	136-W	OGC	240	2
26044	10/19/82	6.1	11.3	-5.2	61-N	61-N	150-W	150-W	OGC	361	1
26045	10/19/82	9.1	11.3	-2.2	61-N	61-N	151-W	151-W	OGC	352	1
26029	10/17/82	18.7	9.8	8.9	61-N	61-N	150-W	150-W	OGC	142	2
26041	10/18/82	15.2	11.4	3.8	62-N	65-N	150-W	149-W	OGC	303	3
26046	10/19/82	19.2	11.3	7.9	62-N	61-N	153-W	152-W	OGC	175	1
26025	10/17/82	12.2	8.6	3.6	65-N	65-N	148-W	148-W	OGC	326	0

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
26026	10/17/82	12.2	10.3	1.9	71-N	71-N	148-W	148-W	OGC	316	0
26042	10/18/82	15.2	10.2	5.0	71-N	75-N	148-W	140-W	OGC	268	1
26028	10/17/82	16.8	10.2	6.6	73-N	73-N	147-W	147-W	OGC	170	1
26027	10/17/82	16.8	10.1	6.7	75-N	75-N	146-W	146-W	OGC	202	1
26043	10/18/82	18.5	10.2	8.3	75-N	71-N	149-W	148-W	OGC	155	2
27049	03/24/83	18.3	17.3	1.0	3-N	7-N	79-W	79-W	OGC	337	1
27057	03/25/83	20.0	16.0	4.0	3-N	7-N	79-W	79-W	OGC	311	0
27056	03/25/83	19.8	16.0	3.8	4-S	4-S	79-W	79-W	OGC	311	1
27046	03/24/83	15.2	17.3	-2.1	7-N	5-N	79-W	79-W	OGC	356	1
27051	03/25/83	16.8	17.3	- .5	7-N	5-N	79-W	79-W	OGC	347	3
27053	03/25/83	16.8	15.8	1.0	7-S	10-S	78-W	77-W	OGC	349	1
27055	03/25/83	19.3	16.0	3.3	7-S	4-S	78-W	79-W	OGC	314	0
27048	03/24/83	18.3	15.8	2.5	10-S	7-S	78-W	78-W	OGC	334	1
27054	03/25/83	19.2	15.8	3.4	10-S	7-S	77-W	77-W	OGC	319	2
27045	03/23/83	19.2	17.3	1.9	13-N	10-N	79-W	79-W	OGC	336	1
27043	03/21/83	15.2	16.2	-1.0	19-N	16-N	84-W	83-W	OGC	330	1
27058	03/26/83	13.7	13.0	.7	22-N	25-N	86-W	88-W	OGC	353	0
27059	03/28/83	19.2	16.5	2.7	22-N	25-N	93-W	93-W	OGC	297	0
27011	03/08/83	6.1	13.2	-7.1	29-N	29-N	94-W	94-W	OGC	364	4
27012	03/08/83	12.2	13.2	-1.0	29-N	29-N	95-W	95-W	OGC	330	2
27013	03/08/83	16.8	13.2	3.6	29-N	28-N	93-W	95-W	OGC	314	1
27014	03/08/83	19.2	13.2	6.0	29-N	29-N	92-W	95-W	OGC	260	1
27041	03/18/83	16.8	11.1	5.7	42-N	45-N	92-W	92-W	OGC	287	2
27016	03/09/83	15.2	12.0	3.2	43-N	44-N	113-W	116-W	OGC	346	1
27018	03/10/83	13.7	12.0	1.7	44-N	47-N	123-W	124-W	OGC	301	1
27017	03/09/83	15.2	12.0	3.2	44-N	45-N	116-W	118-W	OGC	345	1
27042	03/18/83	18.9	10.9	8.0	45-N	40-N	92-W	92-W	OGC	204	1
27019	03/10/83	13.7	10.0	3.7	51-N	53-N	130-W	133-W	OGC	289	1
27028	03/15/83	16.8	11.4	5.4	54-N	52-N	139-W	137-W	OGC	169	0
27024	03/11/83	12.2	8.9	3.3	68-N	65-N	148-W	148-W	OGC	320	1
27027	03/12/83	18.9	9.5	9.4	68-N	65-N	148-W	148-W	OGC	147	2
27039	03/13/83	10.7	9.5	1.2	71-N	68-N	151-W	150-W	OGC	320	0
27031	03/13/83	13.7	9.0	4.7	71-N	72-N	161-W	164-W	OGC	263	0
27022	03/11/83	15.2	7.5	7.7	71-N	75-N	148-W	148-W	OGC	231	2
27035	03/13/83	2.4	8.8	-6.4	72-N	73-N	157-W	156-W	OGC	373	2
27036	03/13/83	2.4	8.8	-6.4	72-N	73-N	154-W	153-W	OGC	371	1
27038	03/13/83	6.1	9.0	-2.9	72-N	71-N	151-W	152-W	OGC	368	0
27037	03/13/83	2.4	8.8	-6.4	73-N	73-N	153-W	151-W	OGC	370	2
27032	03/13/83	2.4	8.8	-6.4	73-N	73-N	164-W	162-W	OGC	364	1
27033	03/13/83	2.4	8.8	-6.4	73-N	73-N	162-W	161-W	OGC	361	1
27034	03/13/83	2.4	8.8	-6.4	73-N	73-N	161-W	159-W	OGC	369	1
27023	03/11/83	12.2	7.5	4.7	75-N	71-N	148-W	148-W	OGC	277	1
28026	09/29/83	19.2	15.0	4.2	19-N	20-N	93-W	94-W	OGC	316	0

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
28027	09/29/83	19.2	15.0	4.2	20-N	23-N	94-W	94-W	OGC	334	1
28024	09/29/83	16.8	15.0	1.8	22-N	20-N	94-W	94-W	OGC	348	1
28028	09/29/83	19.2	16.0	3.2	23-N	26-N	94-W	94-W	OGC	332	1
28023	09/29/83	16.8	15.5	1.3	26-N	22-N	94-W	94-W	OGC	349	1
28029	09/29/83	19.2	15.8	3.4	26-N	29-N	94-W	93-W	OGC	312	1
28022	09/29/83	16.8	15.6	1.2	28-N	27-N	94-W	94-W	OGC	362	1
28037	09/30/83	16.8	14.9	1.9	28-N	29-N	96-W	94-W	OGC	346	1
28039	09/30/83	19.2	14.9	4.3	28-N	29-N	96-W	94-W	OGC	307	0
28031	09/30/83	6.1	14.9	-8.8	29-N	29-N	95-W	95-W	OGC	368	1
28032	09/30/83	9.1	14.9	-5.8	29-N	29-N	95-W	95-W	OGC	365	1
28033	09/30/83	12.2	14.9	-2.7	29-N	29-N	94-W	95-W	OGC	365	0
28034	09/30/83	13.7	14.9	-1.2	29-N	29-N	95-W	94-W	OGC	361	1
28035	09/30/83	15.2	14.9	.3	29-N	29-N	94-W	95-W	OGC	363	2
28036	09/30/83	15.2	14.9	.3	29-N	28-N	95-W	96-W	OGC	362	1
28021	09/29/83	16.8	15.5	1.3	29-N	28-N	93-W	94-W	OGC	347	1
28038	09/30/83	18.3	14.9	3.4	29-N	29-N	93-W	95-W	OGC	289	1
28011	09/28/83	16.8	15.3	1.5	30-N	31-N	93-W	93-W	OGC	337	1
28019	09/28/83	19.2	15.2	4.0	33-N	33-N	93-W	93-W	OGC	266	1
28012	09/28/83	16.8	13.5	3.3	34-N	35-N	93-W	93-W	OGC	350	1
28018	09/28/83	19.2	13.5	5.7	37-N	34-N	93-W	93-W	OGC	244	3
28013	09/28/83	16.8	11.8	5.0	38-N	39-N	93-W	93-W	OGC	332	2
28017	09/28/83	19.2	11.8	7.4	41-N	39-N	92-W	92-W	OGC	251	2
28014	09/28/83	16.8	11.2	5.6	42-N	45-N	93-W	93-W	OGC	337	1
28016	09/28/83	19.2	11.2	8.0	45-N	44-N	92-W	92-W	OGC	269	1
28015	09/28/83	19.2	10.8	8.4	47-N	45-N	92-W	92-W	OGC	276	0
29013	11/30/83	13.7	14.5	- .8	21-N	21-N	92-W	91-W	OGC	371	1
29012	11/30/83	13.7	14.5	- .8	21-N	21-N	94-W	92-W	OGC	363	1
29014	11/30/83	15.2	14.5	.7	21-N	21-N	91-W	91-W	OGC	368	1
29015	11/30/83	16.8	14.5	2.3	21-N	21-N	91-W	93-W	OGC	360	1
29016	11/30/83	19.8	14.6	5.2	21-N	24-N	93-W	93-W	OGC	272	0
29011	11/30/83	15.2	14.8	.4	27-N	21-N	94-W	94-W	OGC	363	2
29052	11/23/83	18.3	13.1	5.2	27-N	22-N	152-W	157-W	OGC	295	1
29017	11/30/83	19.8	14.0	5.8	27-N	27-N	94-W	94-W	OGC	301	1
29018	11/30/83	19.8	14.0	5.8	27-N	30-N	94-W	93-W	OGC	254	4
29043	11/16/83	15.2	13.4	1.8	30-N	33-N	96-W	99-W	OGC	352	1
29019	11/30/83	16.8	14.5	2.3	30-N	30-N	96-W	96-W	OGC	342	2
29044	11/16/83	15.2	12.2	3.0	35-N	35-N	101-W	101-W	OGC	347	1
29045	11/16/83	15.2	12.2	3.0	39-N	41-N	106-W	109-W	OGC	351	2
29046	11/16/83	15.2	10.0	5.2	45-N	45-N	117-W	117-W	OGC	325	2
29047	11/17/83	9.1	10.2	-1.1	46-N	45-N	122-W	123-W	OGC	360	1
29048	11/17/83	13.7	10.0	3.7	47-N	49-N	124-W	125-W	OGC	332	3
29039	11/22/83	16.8	10.0	6.8	51-N	50-N	130-W	130-W	OGC	288	0
29049	11/17/83	13.7	10.0	3.7	53-N	55-N	135-W	139-W	OGC	291	1

TABLE 5 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
29035	11/21/83	19.2	10.9	8.3	53-N	56-N	150-W	150-W	OGC	273	0
29036	11/21/83	19.2	10.5	8.7	56-N	59-N	150-W	150-W	OGC	265	2
29037	11/21/83	16.8	10.0	6.8	59-N	61-N	150-W	149-W	OGC	265	1
29034	11/21/83	15.2	10.0	5.2	60-N	59-N	150-W	150-W	OGC	304	2
29031	11/20/83	3.1	10.3	-7.2	61-N	62-N	148-W	147-W	OGC	383	1
29038	11/21/83	13.7	10.0	3.7	61-N	61-N	149-W	149-W	OGC	346	1
29032	11/20/83	6.1	10.3	-4.2	62-N	62-N	146-W	145-W	OGC	381	0
29021	11/18/83	12.2	8.0	4.2	62-N	64-N	150-W	149-W	OGC	317	3
29025	11/19/83	15.2	8.1	7.1	63-N	65-N	149-W	149-W	OGC	233	1
29024	11/18/83	16.8	7.8	9.0	65-N	62-N	149-W	149-W	OGC	244	1
29028	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	179	2
29029	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	193	2
29022	11/18/83	12.2	8.0	4.2	68-N	71-N	149-W	148-W	OGC	330	1
29023	11/18/83	12.2	8.0	4.2	71-N	75-N	148-W	148-W	OGC	329	1

TABLE 6
CONCENTRATION OF CH₃CCl₃ IN PROJECT AIRSTREAM SAMPLES
(pL L⁻¹)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
23052	10/26/81	15.2	17.1	-1.9	16-N	16-N	83-W	83-W	OGC	89	0
23001	10/14/81	3.1	15.8	-12.7	29-N	29-N	94-W	94-W	OGC	128	1
23002	10/14/81	9.1	15.8	-6.7	29-N	29-N	94-W	94-W	OGC	112	2
23003	10/14/81	12.2	15.8	-3.6	29-N	29-N	94-W	94-W	OGC	108	0
23004	10/14/81	16.8	15.8	1.0	29-N	29-N	94-W	94-W	OGC	87	1
23005	10/14/81	19.2	15.8	3.4	29-N	29-N	94-W	94-W	OGC	62	1
23006	10/15/81	16.8	13.6	3.2	34-N	35-N	93-W	93-W	OGC	88	1
23049	10/21/81	13.7	16.2	-2.5	36-N	35-N	103-W	102-W	OGC	101	0
23009	10/15/81	19.2	14.9	4.3	37-N	36-N	93-W	93-W	OGC	65	1
23048	10/21/81	13.7	11.5	2.2	39-N	38-N	108-W	107-W	OGC	98	1
23021	10/16/81	15.2	13.6	1.6	39-N	42-N	108-W	110-W	OGC	102	6
23008	10/15/81	19.2	12.6	6.6	41-N	40-N	93-W	93-W	OGC	55	1
23047	10/21/81	13.7	11.4	2.3	42-N	41-N	118-W	111-W	OGC	98	1
23007	10/15/81	16.8	11.6	5.2	42-N	43-N	94-W	94-W	OGC	80	2
23046	10/21/81	13.7	11.3	2.4	44-N	44-N	115-W	115-W	OGC	103	1
23023	10/17/81	13.7	13.6	.1	48-N	49-N	125-W	125-W	OGC	112	2
23022	10/16/81	15.2	12.0	3.2	48-N	50-N	123-W	128-W	OGC	96	1
23043	10/21/81	16.8	12.7	4.1	48-N	48-N	125-W	125-W	OGC	46	1
23042	10/21/81	16.8	12.4	4.4	51-N	48-N	137-W	135-W	OGC	81	0
23024	10/17/81	13.7	13.0	.7	54-N	53-N	136-W	136-W	OGC	104	1
23041	10/21/81	16.8	12.4	4.4	54-N	52-N	141-W	138-W	OGC	83	1
23034	10/20/81	16.8	11.8	5.0	59-N	59-N	152-W	152-W	OGC	70	1
23035	10/20/81	16.8	11.8	5.0	60-N	62-N	151-W	149-W	OGC	73	2
23027	10/18/81	19.2	9.4	9.8	61-N	58-N	150-W	150-W	OGC	36	0
23033	10/20/81	13.7	11.8	1.9	62-N	60-N	149-W	151-W	OGC	90	8
23036	10/20/81	19.2	11.8	7.4	63-N	61-N	148-W	151-W	OGC	34	0
23032	10/20/81	12.2	11.8	.4	64-N	62-N	148-W	149-W	OGC	103	1
23028	10/19/81	15.2	9.0	6.2	71-N	75-N	148-W	148-W	OGC	78	2
23026	10/18/81	16.8	9.0	7.8	75-N	71-N	149-W	149-W	OGC	66	0
23029	10/19/81	19.2	9.0	10.2	75-N	71-N	150-W	150-W	OGC	27	1
24034	04/21/82	18.3	17.2	1.1	1-N	1-N	80-W	80-W	OGC	96	0
24033	04/21/82	15.2	17.2	-2.0	3-N	3-N	80-W	80-W	OGC	121	2
24035	04/21/82	19.2	17.2	2.0	6-N	6-N	79-W	79-W	OGC	86	1
24037	04/22/82	6.1	17.2	-11.1	10-N	11-N	79-W	79-W	OGC	108	1
24038	04/22/82	12.2	17.1	-4.9	10-N	13-N	79-W	79-W	OGC	112	2
24039	04/22/82	19.2	17.1	2.1	12-N	9-N	80-W	80-W	OGC	80	2
24019	04/19/82	13.7	16.0	-2.3	13-N	13-N	82-W	82-W	OGC	105	1
24032	04/20/82	19.2	17.1	2.1	13-N	10-N	79-W	80-W	OGC	87	1
24018	04/19/82	13.7	16.0	-2.3	19-N	16-N	85-W	83-W	OGC	108	1
24021	04/23/82	15.2	17.2	-2.0	19-N	19-N	85-W	85-W	OGC	107	0

TABLE 6 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
24031	04/20/82	19.2	16.9	2.3	19-N	17-N	79-W	79-W	OGC	75	0
24017	04/16/82	18.8	16.0	2.8	22-N	23-N	95-W	95-W	OGC	90	1
24011	04/15/82	6.1	14.7	-8.6	29-N	29-N	95-W	95-W	OGC	112	2
24012	04/15/82	12.2	14.7	-2.5	29-N	29-N	95-W	95-W	OGC	114	2
24013	04/15/82	16.8	14.7	2.1	29-N	29-N	94-W	95-W	OGC	92	1
24022	04/27/82	15.2	13.1	2.1	36-N	36-N	104-W	104-W	OGC	74	1
24055	05/07/82	15.2	11.0	4.2	39-N	39-N	108-W	108-W	OGC	81	0
24054	05/05/82	13.7	10.7	3.0	41-N	41-N	111-W	110-W	OGC	83	2
24059	05/07/82	19.2	10.7	8.5	41-N	41-N	109-W	109-W	OGC	42	0
24053	05/05/82	13.7	10.7	3.0	42-N	41-N	112-W	111-W	OGC	94	2
24056	05/07/82	16.8	10.4	6.4	43-N	43-N	108-W	108-W	OGC	40	1
24057	05/07/82	16.8	10.4	6.4	44-N	44-N	108-W	108-W	OGC	36	2
24023	04/27/82	15.2	12.4	2.8	45-N	45-N	118-W	118-W	OGC	82	1
24058	05/07/82	18.3	10.6	7.7	45-N	45-N	109-W	109-W	OGC	54	0
24052	05/04/82	19.2	11.6	7.6	47-N	50-N	131-W	130-W	OGC	29	0
24025	04/29/82	13.7	10.7	3.0	48-N	51-N	125-W	130-W	OGC	82	0
24026	04/28/82	13.7	8.8	4.9	54-N	57-N	135-W	139-W	OGC	55	0
24051	05/04/82	16.8	11.2	5.6	54-N	51-N	139-W	137-W	OGC	60	0
24046	05/03/82	6.1	9.2	-3.1	61-N	61-N	149-W	149-W	OGC	130	1
24045	05/02/82	19.2	9.5	9.7	61-N	58-N	150-W	150-W	OGC	31	2
24047	05/03/82	10.7	8.9	1.8	62-N	62-N	149-W	149-W	OGC	61	1
24048	05/03/82	12.2	8.9	3.3	62-N	62-N	149-W	149-W	OGC	72	2
24044	05/02/82	16.8	8.9	7.9	68-N	65-N	148-W	148-W	OGC	14	1
24042	05/02/82	12.2	9.5	2.7	71-N	75-N	149-W	148-W	OGC	74	1
24027	05/01/82	15.2	10.0	5.2	71-N	71-N	148-W	148-W	OGC	12	0
24028	05/01/82	18.7	9.8	8.9	75-N	75-N	148-W	148-W	OGC	23	0
25025	07/23/82	13.7	15.3	-1.6	8-N	8-N	80-W	80-W	OGC	128	0
25026	07/23/82	13.7	15.3	-1.6	10-N	10-N	80-W	80-W	OGC	114	2
25018	07/20/82	16.8	15.2	1.6	10-N	10-N	79-W	79-W	OGC	96	1
25027	07/23/82	13.7	14.9	-1.2	13-N	16-N	82-W	83-W	OGC	116	0
25028	07/23/82	13.7	14.7	-1.0	16-N	19-N	83-W	83-W	OGC	114	1
25017	07/19/82	15.2	14.4	.8	22-N	22-N	88-W	88-W	OGC	109	2
25015	07/16/82	16.8	15.5	1.3	22-N	19-N	94-W	94-W	OGC	104	2
25011	07/15/82	12.2	15.0	-2.8	30-N	30-N	95-W	95-W	OGC	124	2
25012	07/15/82	13.7	15.0	-1.3	30-N	30-N	95-W	95-W	OGC	120	1
25013	07/15/82	16.8	15.0	1.8	30-N	30-N	95-W	95-W	OGC	90	2
25014	07/15/82	19.2	15.0	4.2	30-N	30-N	95-W	95-W	OGC	54	2
25059	08/03/82	19.3	15.0	4.3	33-N	33-N	93-W	93-W	OGC	60	1
25056	08/02/82	13.7	11.8	1.9	42-N	42-N	112-W	112-W	OGC	105	0
25031	07/27/82	15.2	15.1	.1	42-N	42-N	111-W	111-W	OGC	95	1
25058	08/03/82	19.3	11.2	8.1	45-N	45-N	93-W	93-W	OGC	37	4
25055	08/01/82	18.8	10.4	8.4	47-N	48-N	131-W	131-W	OGC	35	0
25054	08/01/82	16.8	10.4	6.4	48-N	48-N	135-W	135-W	OGC	83	2

TABLE 6 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
25053	08/01/82	16.8	10.6	6.2	53-N	52-N	138-W	138-W	OGC	78	1
25033	07/28/82	13.7	11.8	1.9	54-N	54-N	135-W	135-W	OGC	89	0
25052	08/01/82	16.8	10.6	6.2	54-N	53-N	139-W	139-W	OGC	75	0
25041	07/30/82	15.2	11.3	3.9	58-N	59-N	151-W	151-W	OGC	91	2
25045	07/31/82	6.1	11.3	-5.2	60-N	60-N	151-W	151-W	OGC	135	3
25046	07/31/82	9.1	11.3	-2.2	60-N	60-N	153-W	153-W	OGC	141	2
25051	08/01/82	16.8	10.2	6.6	60-N	59-N	146-W	146-W	OGC	73	6
25048	07/31/82	16.8	11.3	5.5	61-N	59-N	152-W	152-W	OGC	60	3
25035	07/29/82	12.2	10.9	1.3	71-N	71-N	148-W	148-W	OGC	89	2
25042	07/30/82	15.2	10.1	5.1	71-N	72-N	144-W	144-W	OGC	72	5
25036	07/29/82	12.2	10.9	1.3	72-N	72-N	148-W	148-W	OGC	93	1
25037	07/29/82	16.8	10.7	6.1	75-N	74-N	150-W	150-W	OGC	59	2
25043	07/30/82	18.3	9.8	8.5	75-N	74-N	148-W	148-W	OGC	7	2
26058	10/29/82	18.3	17.2	1.1	0	0	79-W	79-W	OGC	91	2
26054	10/27/82	19.9	16.2	3.7	0	0	79-W	79-W	OGC	74	0
26051	10/27/82	16.8	16.2	.6	3-N	3-N	79-W	79-W	OGC	104	1
26055	10/29/82	15.2	17.2	-2.0	3-S	3-S	79-W	79-W	OGC	98	0
26037	10/26/82	16.8	15.6	1.2	7-N	7-N	79-W	79-W	OGC	101	1
26056	10/29/82	15.2	17.2	-2.0	7-S	7-S	78-W	78-W	OGC	96	1
26052	10/27/82	16.8	16.2	.6	7-S	7-S	78-W	78-W	OGC	98	2
26038	10/26/82	19.2	15.6	3.6	10-N	10-N	79-W	79-W	OGC	83	1
26057	10/29/82	18.3	17.4	.9	10-S	10-S	77-W	77-W	OGC	80	1
26053	10/27/82	19.2	16.2	3.0	10-S	10-S	77-W	77-W	OGC	78	1
26059	10/30/82	13.7	16.8	-3.1	13-N	13-N	82-W	82-W	OGC	103	2
26033	10/22/82	18.7	16.0	2.7	19-N	19-N	93-W	93-W	OGC	69	2
26032	10/22/82	16.8	15.5	1.3	22-N	22-N	93-W	93-W	OGC	99	1
26013	10/13/82	15.2	15.5	-.3	27-N	27-N	96-W	96-W	OGC	109	1
26031	10/22/82	16.5	14.6	1.9	27-N	27-N	93-W	93-W	OGC	97	1
26015	10/13/82	19.2	15.7	3.5	27-N	27-N	96-W	96-W	OGC	50	1
26011	10/13/82	6.1	15.7	-9.6	29-N	29-N	93-W	93-W	OGC	130	2
26012	10/13/82	12.5	15.7	-3.2	29-N	29-N	91-W	91-W	OGC	110	0
26014	10/13/82	16.8	15.7	1.1	29-N	29-N	93-W	93-W	OGC	95	1
26016	10/14/82	16.8	11.5	5.3	34-N	38-N	92-W	93-W	OGC	98	2
26021	10/15/82	15.2	13.2	2.0	36-N	36-N	104-W	104-W	OGC	98	1
26019	10/14/82	19.2	11.5	7.7	37-N	33-N	93-W	93-W	OGC	62	2
26049	10/21/82	13.7	12.2	1.5	39-N	39-N	108-W	108-W	OGC	104	1
26022	10/15/82	15.2	13.6	1.6	42-N	42-N	112-W	112-W	OGC	104	1
26017	10/14/82	16.8	15.0	1.8	42-N	45-N	93-W	93-W	OGC	90	0
26024	10/16/82	13.7	10.0	3.7	45-N	48-N	123-W	124-W	OGC	106	1
26018	10/14/82	19.2	15.0	4.2	45-N	41-N	93-W	93-W	OGC	50	2
26048	10/20/82	15.2	11.1	4.1	50-N	47-N	128-W	123-W	OGC	90	1
26047	10/20/82	16.8	11.5	5.3	54-N	51-N	139-W	136-W	OGC	55	3
26044	10/19/82	6.1	11.3	-5.2	61-N	61-N	150-W	150-W	OGC	134	2

TABLE 6 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
26045	10/19/82	9.1	11.3	-2.2	61-N	61-N	151-W	151-W	OGC	125	2
26029	10/17/82	18.7	9.8	8.9	61-N	61-N	150-W	150-W	OGC	21	0
26041	10/18/82	15.2	11.4	3.8	62-N	65-N	150-W	149-W	OGC	90	1
26046	10/19/82	19.2	11.3	7.9	62-N	61-N	153-W	152-W	OGC	41	0
26025	10/17/82	12.2	8.6	3.6	65-N	65-N	148-W	148-W	OGC	97	1
26026	10/17/82	12.2	10.3	1.9	71-N	71-N	148-W	148-W	OGC	93	2
26042	10/18/82	15.2	10.2	5.0	71-N	75-N	148-W	140-W	OGC	74	0
26028	10/17/82	16.8	10.2	6.6	73-N	73-N	147-W	147-W	OGC	30	1
26027	10/17/82	16.8	10.1	6.7	75-N	75-N	146-W	146-W	OGC	42	1
26043	10/18/82	18.5	10.2	8.3	75-N	71-N	149-W	148-W	OGC	22	0
27049	03/24/83	18.3	17.3	1.0	3-N	7-N	79-W	79-W	OGC	97	2
27057	03/25/83	20.0	16.0	4.0	3-N	7-N	79-W	79-W	OGC	81	1
27056	03/25/83	19.8	16.0	3.8	4-S	4-S	79-W	79-W	OGC	79	1
27051	03/25/83	16.8	17.3	-5	7-N	5-N	79-W	79-W	OGC	105	1
27053	03/25/83	16.8	15.8	1.0	7-S	10-S	78-W	77-W	OGC	112	2
27055	03/25/83	19.3	16.0	3.3	7-S	4-S	78-W	79-W	OGC	82	0
27048	03/24/83	18.3	15.8	2.5	10-S	7-S	78-W	78-W	OGC	98	2
27054	03/25/83	19.2	15.8	3.4	10-S	7-S	77-W	77-W	OGC	86	2
27045	03/23/83	19.2	17.3	1.9	13-N	10-N	79-W	79-W	OGC	94	1
27043	03/21/83	15.2	16.2	-1.0	19-N	16-N	84-W	83-W	OGC	119	2
27058	03/26/83	13.7	13.0	.7	22-N	25-N	86-W	88-W	OGC	108	1
27059	03/28/83	19.2	16.5	2.7	22-N	25-N	93-W	93-W	OGC	81	1
27011	03/08/83	6.1	13.2	-7.1	29-N	29-N	94-W	94-W	OGC	123	2
27012	03/08/83	12.2	13.2	-1.0	29-N	29-N	95-W	95-W	OGC	71	1
27014	03/08/83	19.2	13.2	6.0	29-N	29-N	92-W	95-W	OGC	66	1
27015	03/09/83	15.2	3.8	11.4	33-N	35-N	100-W	102-W	OGC	62	1
27041	03/18/83	16.8	11.1	5.7	42-N	45-N	92-W	92-W	OGC	98	1
27016	03/09/83	15.2	12.0	3.2	43-N	44-N	113-W	116-W	OGC	105	1
27018	03/10/83	13.7	12.0	1.7	44-N	47-N	123-W	124-W	OGC	82	0
27017	03/09/83	15.2	12.0	3.2	44-N	45-N	116-W	118-W	OGC	103	1
27042	03/18/83	18.9	10.9	8.0	45-N	40-N	92-W	92-W	OGC	34	1
27019	03/10/83	13.7	10.0	3.7	51-N	53-N	130-W	133-W	OGC	78	2
27028	03/15/83	16.8	11.4	5.4	54-N	52-N	139-W	137-W	OGC	34	0
27021	03/11/83	15.2	8.8	6.4	65-N	68-N	148-W	148-W	OGC	90	1
27024	03/11/83	12.2	8.9	3.3	68-N	65-N	148-W	148-W	OGC	96	1
27027	03/12/83	18.9	9.5	9.4	68-N	65-N	148-W	148-W	OGC	15	0
27039	03/13/83	10.7	9.5	1.2	71-N	68-N	151-W	150-W	OGC	97	1
27031	03/13/83	13.7	9.0	4.7	71-N	72-N	161-W	164-W	OGC	68	0
27022	03/11/83	15.2	7.5	7.7	71-N	75-N	148-W	148-W	OGC	57	1
27025	03/12/83	16.8	7.8	9.0	71-N	75-N	148-W	147-W	OGC	51	1
27036	03/13/83	2.4	8.8	-6.4	72-N	73-N	154-W	153-W	OGC	138	1
27035	03/13/83	2.4	8.8	-6.4	72-N	73-N	157-W	156-W	OGC	142	2
27038	03/13/83	6.1	9.0	-2.9	72-N	71-N	151-W	152-W	OGC	128	0

TABLE 6 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
27034	03/13/83	2.4	8.8	-6.4	73-N	73-N	161-W	159-W	OGC	138	0
27033	03/13/83	2.4	8.8	-6.4	73-N	73-N	162-W	161-W	OGC	131	0
27037	03/13/83	2.4	8.8	-6.4	73-N	73-N	153-W	151-W	OGC	140	0
27032	03/13/83	2.4	8.8	-6.4	73-N	73-N	164-W	162-W	OGC	133	1
27023	03/11/83	12.2	7.5	4.7	75-N	71-N	148-W	148-W	OGC	79	2
28026	09/29/83	19.2	15.0	4.2	19-N	20-N	93-W	94-W	OGC	88	2
28027	09/29/83	19.2	15.0	4.2	20-N	23-N	94-W	94-W	OGC	80	1
28024	09/29/83	16.8	15.0	1.8	22-N	20-N	94-W	94-W	OGC	120	1
28023	09/29/83	16.8	15.5	1.3	26-N	22-N	94-W	94-W	OGC	105	1
28029	09/29/83	19.2	15.8	3.4	26-N	29-N	94-W	93-W	OGC	74	1
28022	09/29/83	16.8	15.6	1.2	28-N	27-N	94-W	94-W	OGC	102	1
28037	09/30/83	16.8	14.9	1.9	28-N	29-N	96-W	94-W	OGC	104	0
28039	09/30/83	19.2	14.9	4.3	28-N	29-N	96-W	94-W	OGC	84	0
28031	09/30/83	6.1	14.9	-8.8	29-N	29-N	95-W	95-W	OGC	129	1
28032	09/30/83	9.1	14.9	-5.8	29-N	29-N	95-W	95-W	OGC	120	0
28033	09/30/83	12.2	14.9	-2.7	29-N	29-N	94-W	95-W	OGC	120	1
28034	09/30/83	13.7	14.9	-1.2	29-N	29-N	95-W	94-W	OGC	112	1
28035	09/30/83	15.2	14.9	.3	29-N	29-N	94-W	95-W	OGC	120	1
28036	09/30/83	15.2	14.9	.3	29-N	28-N	95-W	96-W	OGC	109	0
28021	09/29/83	16.8	15.5	1.3	29-N	28-N	93-W	94-W	OGC	104	1
28038	09/30/83	18.3	14.9	3.4	29-N	29-N	93-W	95-W	OGC	76	0
28011	09/28/83	16.8	15.3	1.5	30-N	31-N	93-W	93-W	OGC	100	1
28019	09/28/83	19.2	15.2	4.0	33-N	33-N	93-W	93-W	OGC	62	1
28012	09/28/83	16.8	13.5	3.3	34-N	35-N	93-W	93-W	OGC	104	2
28018	09/28/83	19.2	13.5	5.7	37-N	34-N	93-W	93-W	OGC	55	1
28013	09/28/83	16.8	11.8	5.0	38-N	39-N	93-W	93-W	OGC	98	1
28017	09/28/83	19.2	11.8	7.4	41-N	39-N	92-W	92-W	OGC	61	1
28014	09/28/83	16.8	11.2	5.6	42-N	45-N	93-W	93-W	OGC	114	1
28016	09/28/83	19.2	11.2	8.0	45-N	44-N	92-W	92-W	OGC	65	0
28015	09/28/83	19.2	10.8	8.4	47-N	45-N	92-W	92-W	OGC	56	0
29013	11/30/83	13.7	14.5	-.8	21-N	21-N	92-W	91-W	OGC	120	0
29012	11/30/83	13.7	14.5	-.8	21-N	21-N	94-W	92-W	OGC	113	0
29014	11/30/83	15.2	14.5	.7	21-N	21-N	91-W	91-W	OGC	122	1
29015	11/30/83	16.8	14.5	2.3	21-N	21-N	91-W	93-W	OGC	116	2
29016	11/30/83	19.8	14.6	5.2	21-N	24-N	93-W	93-W	OGC	77	0
29011	11/30/83	15.2	14.8	.4	27-N	21-N	94-W	94-W	OGC	117	1
29052	11/23/83	18.3	13.1	5.2	27-N	22-N	152-W	157-W	OGC	119	1
29017	11/30/83	19.8	14.0	5.8	27-N	27-N	94-W	94-W	OGC	83	2
29018	11/30/83	19.8	14.0	5.8	27-N	30-N	94-W	93-W	OGC	78	0
29043	11/16/83	15.2	13.4	1.8	30-N	33-N	96-W	99-W	OGC	115	0
29019	11/30/83	16.8	14.5	2.3	30-N	30-N	96-W	96-W	OGC	101	0
29044	11/16/83	15.2	12.2	3.0	35-N	35-N	101-W	101-W	OGC	114	2
29045	11/16/83	15.2	12.2	3.0	39-N	41-N	106-W	109-W	OGC	107	1

TABLE 6 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
29046	11/16/83	15.2	10.0	5.2	45-N	45-N	117-W	117-W	OGC	98	2
29047	11/17/83	9.1	10.2	-1.1	46-N	45-N	122-W	123-W	OGC	111	1
29048	11/17/83	13.7	10.0	3.7	47-N	49-N	124-W	125-W	OGC	124	2
29039	11/22/83	16.8	10.0	6.8	51-N	50-N	130-W	130-W	OGC	74	1
29049	11/17/83	13.7	10.0	3.7	53-N	55-N	135-W	139-W	OGC	78	0
29035	11/21/83	19.2	10.9	8.3	53-N	56-N	150-W	150-W	OGC	63	1
29036	11/21/83	19.2	10.5	8.7	56-N	59-N	150-W	150-W	OGC	61	1
29037	11/21/83	16.8	10.0	6.8	59-N	61-N	150-W	149-W	OGC	64	1
29034	11/21/83	15.2	10.0	5.2	60-N	59-N	150-W	150-W	OGC	83	2
29038	11/21/83	13.7	10.0	3.7	61-N	61-N	149-W	149-W	OGC	103	1
29021	11/18/83	12.2	8.0	4.2	62-N	64-N	150-W	149-W	OGC	94	1
29025	11/19/83	15.2	8.1	7.1	63-N	65-N	149-W	149-W	OGC	53	1
29024	11/18/83	16.8	7.8	9.0	65-N	62-N	149-W	149-W	OGC	57	1
29029	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	34	0
29028	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	31	1
29022	11/18/83	12.2	8.0	4.2	68-N	71-N	149-W	148-W	OGC	95	1
29023	11/18/83	12.2	8.0	4.2	71-N	75-N	148-W	148-W	OGC	96	1

TABLE 7
CONCENTRATION OF CO₂ IN PROJECT AIRSTREAM SAMPLES
($\mu\text{L L}^{-1}$)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
22056	07/24/81	19.2	14.5	4.7	1-N	3-N	80-W	80-W	OGC	343	0
22052	07/23/81	9.1	15.2	-6.1	7-N	7-N	80-W	80-W	OGC	344	0
22053	07/23/81	12.2	15.2	-3.0	7-N	7-N	80-W	80-W	OGC	343	1
22044	07/21/81	16.8	15.1	1.7	7-N	8-N	80-W	80-W	OGC	324	0
22051	07/23/81	3.1	15.2	-12.1	9-N	8-N	79-W	79-W	OGC	343	1
22057	07/25/81	13.7	14.7	-1.0	10-N	13-N	81-W	82-W	OGC	341	0
22043	07/20/81	15.2	15.5	-.3	10-N	7-N	80-W	79-W	OGC	313	0
22049	07/21/81	19.2	15.1	4.1	10-N	8-N	80-W	80-W	OGC	319	0
22045	07/21/81	16.8	15.1	1.7	13-N	14-N	79-W	79-W	OGC	323	0
22058	07/25/81	13.7	14.6	-.9	16-N	19-N	83-W	85-W	OGC	340	0
22046	07/21/81	16.8	15.2	1.6	16-N	17-N	79-W	79-W	OGC	320	0
22048	07/21/81	19.2	15.1	4.1	16-N	13-N	79-W	80-W	OGC	318	1
22042	07/20/81	15.2	15.4	-.2	19-N	16-N	85-W	83-W	OGC	314	0
22047	07/21/81	19.2	15.4	3.8	19-N	16-N	79-W	80-W	OGC	317	1
22041	07/20/81	15.2	15.3	-.1	28-N	25-N	96-W	89-W	OGC	314	0
22001	07/16/81	12.2	15.4	-3.2	29-N	30-N	95-W	94-W	OGC	337	0
22002	07/16/81	16.8	15.4	1.4	29-N	29-N	95-W	94-W	OGC	342	0
22018	07/14/81	13.7	15.6	-1.9	36-N	33-N	100-W	98-W	OGC	343	0
22017	07/14/81	13.7	15.2	-1.5	39-N	36-N	101-W	100-W	OGC	345	0
22033	07/08/81	15.2	15.5	-.3	39-N	42-N	105-W	113-W	OGC	340	0
22016	07/14/81	13.7	14.9	-1.2	41-N	39-N	104-W	101-W	OGC	344	0
22015	07/14/81	13.7	15.0	-1.3	45-N	41-N	115-W	108-W	OGC	345	0
22036	07/09/81	13.7	11.0	2.7	45-N	48-N	124-W	125-W	OGC	343	0
22034	07/08/81	15.2	11.3	3.9	45-N	48-N	117-W	124-W	OGC	344	1
22035	07/08/81	15.2	11.3	3.9	48-N	50-N	124-W	128-W	OGC	344	0
22013	07/13/81	16.8	10.0	6.8	48-N	45-N	131-W	128-W	OGC	339	1
22014	07/13/81	18.9	10.7	8.2	50-N	47-N	129-W	124-W	OGC	337	0
22037	07/09/81	13.7	10.3	3.4	51-N	51-N	130-W	130-W	OGC	345	1
22038	07/09/81	13.7	11.4	2.3	57-N	58-N	140-W	141-W	OGC	344	0
22039	07/09/81	13.7	11.9	1.8	58-N	59-N	141-W	142-W	OGC	345	1
22023	07/12/81	9.1	10.1	-1.0	60-N	60-N	150-W	151-W	OGC	341	1
22022	07/12/81	3.1	10.1	-7.0	61-N	61-N	150-W	150-W	OGC	346	0
23052	10/26/81	15.2	17.1	-1.9	16-N	16-N	83-W	83-W	OGC	341	1
23051	10/26/81	15.2	16.6	-1.4	25-N	22-N	89-W	86-W	OGC	314	0
23001	10/14/81	3.1	15.8	-12.7	29-N	29-N	94-W	94-W	OGC	341	0
23002	10/14/81	9.1	15.8	-6.7	29-N	29-N	94-W	94-W	OGC	341	1
23003	10/14/81	12.2	15.8	-3.6	29-N	29-N	94-W	94-W	OGC	341	0
23004	10/14/81	16.8	15.8	1.0	29-N	29-N	94-W	94-W	OGC	342	0
23005	10/14/81	19.2	15.8	3.4	29-N	29-N	94-W	94-W	OGC	335	0
23049	10/21/81	13.7	16.2	-2.5	36-N	35-N	103-W	102-W	OGC	342	1

TABLE 7 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
23009	10/15/81	19.2	14.9	4.3	37-N	36-N	93-W	93-W	OGC	340	1
23048	10/21/81	13.7	11.5	2.2	39-N	38-N	108-W	107-W	OGC	343	2
23021	10/16/81	15.2	13.6	1.6	39-N	42-N	108-W	110-W	OGC	342	0
23008	10/15/81	19.2	12.6	6.6	41-N	40-N	93-W	93-W	OGC	335	0
23047	10/21/81	13.7	11.4	2.3	42-N	41-N	118-W	111-W	OGC	341	3
23046	10/21/81	13.7	11.3	2.4	44-N	44-N	115-W	115-W	OGC	341	0
23023	10/17/81	13.7	13.6	.1	48-N	49-N	125-W	125-W	OGC	335	0
23043	10/21/81	16.8	12.7	4.1	48-N	48-N	125-W	125-W	OGC	338	0
23042	10/21/81	16.8	12.4	4.4	51-N	48-N	137-W	135-W	OGC	341	0
23041	10/21/81	16.8	12.4	4.4	54-N	52-N	141-W	138-W	OGC	341	0
23034	10/20/81	16.8	11.8	5.0	59-N	59-N	152-W	152-W	OGC	340	1
23035	10/20/81	16.8	11.8	5.0	60-N	62-N	151-W	149-W	OGC	340	0
23027	10/18/81	19.2	9.4	9.8	61-N	58-N	150-W	150-W	OGC	335	2
23033	10/20/81	13.7	11.8	1.9	62-N	60-N	149-W	151-W	OGC	341	1
23036	10/20/81	19.2	11.8	7.4	63-N	61-N	148-W	151-W	OGC	338	0
23032	10/20/81	12.2	11.8	.4	64-N	62-N	148-W	149-W	OGC	342	1
23026	10/18/81	16.8	9.0	7.8	75-N	71-N	149-W	149-W	OGC	335	0
23029	10/19/81	19.2	9.0	10.2	75-N	71-N	150-W	150-W	OGC	337	1
24034	04/21/82	18.3	17.2	1.1	1-N	1-N	80-W	80-W	OGC	340	1
24033	04/21/82	15.2	17.2	-2.0	3-N	3-N	80-W	80-W	OGC	341	0
24035	04/21/82	19.2	17.2	2.0	6-N	6-N	79-W	79-W	OGC	338	1
24037	04/22/82	6.1	17.2	-11.1	10-N	11-N	79-W	79-W	OGC	345	1
24038	04/22/82	12.2	17.1	-4.9	10-N	13-N	79-W	79-W	OGC	341	1
24039	04/22/82	19.2	17.1	2.1	12-N	9-N	80-W	80-W	OGC	338	2
24019	04/19/82	13.7	16.0	-2.3	13-N	13-N	82-W	82-W	OGC	342	1
24032	04/20/82	19.2	17.1	2.1	13-N	10-N	79-W	80-W	OGC	337	1
24018	04/19/82	13.7	16.0	-2.3	19-N	16-N	85-W	83-W	OGC	341	0
24021	04/23/82	15.2	17.2	-2.0	19-N	19-N	85-W	85-W	OGC	341	1
24031	04/20/82	19.2	16.9	2.3	19-N	17-N	79-W	79-W	OGC	334	1
24017	04/16/82	18.8	16.0	2.8	22-N	23-N	95-W	95-W	OGC	337	1
24015	04/16/82	16.8	16.0	.8	25-N	25-N	95-W	95-W	OGC	340	1
24011	04/15/82	6.1	14.7	-8.6	29-N	29-N	95-W	95-W	OGC	345	1
24012	04/15/82	12.2	14.7	-2.5	29-N	29-N	95-W	95-W	OGC	340	4
24013	04/15/82	16.8	14.7	2.1	29-N	29-N	94-W	95-W	OGC	340	1
24014	04/15/82	19.2	14.7	4.5	29-N	28-N	94-W	96-W	OGC	334	1
24055	05/07/82	15.2	11.0	4.2	39-N	39-N	108-W	108-W	OGC	340	1
24054	05/05/82	13.7	10.7	3.0	41-N	41-N	111-W	110-W	OGC	338	0
24059	05/07/82	19.2	10.7	8.5	41-N	41-N	109-W	109-W	OGC	336	0
24053	05/05/82	13.7	10.7	3.0	42-N	41-N	112-W	111-W	OGC	341	0
24056	05/07/82	16.8	10.4	6.4	43-N	43-N	108-W	108-W	OGC	337	1
24057	05/07/82	16.8	10.4	6.4	44-N	44-N	108-W	108-W	OGC	335	0
24023	04/27/82	15.2	12.4	2.8	45-N	45-N	118-W	118-W	OGC	336	0
24058	05/07/82	18.3	10.6	7.7	45-N	45-N	109-W	109-W	OGC	337	0

TABLE 7 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
24052	05/04/82	19.2	11.6	7.6	47-N	50-N	131-W	130-W	OGC	335	1
24025	04/29/82	13.7	10.7	3.0	48-N	51-N	125-W	130-W	OGC	336	0
24026	04/28/82	13.7	8.8	4.9	54-N	57-N	135-W	139-W	OGC	335	0
24051	05/04/82	16.8	11.2	5.6	54-N	51-N	139-W	137-W	OGC	335	1
24049	05/03/82	19.2	8.9	10.3	62-N	62-N	150-W	150-W	OGC	335	1
24041	05/02/82	12.2	8.9	3.3	65-N	68-N	149-W	148-W	OGC	338	1
24044	05/02/82	16.8	8.9	7.9	68-N	65-N	148-W	148-W	OGC	330	2
24029	05/01/82	19.2	9.6	9.6	68-N	68-N	149-W	149-W	OGC	335	1
24042	05/02/82	12.2	9.5	2.7	71-N	75-N	149-W	148-W	OGC	336	1
24027	05/01/82	15.2	10.0	5.2	71-N	71-N	148-W	148-W	OGC	335	0
24043	05/02/82	16.8	9.5	7.3	75-N	71-N	149-W	148-W	OGC	332	0
24028	05/01/82	18.7	9.8	8.9	75-N	75-N	148-W	148-W	OGC	337	0
25025	07/23/82	13.7	15.3	-1.6	8-N	8-N	80-W	80-W	OGC	343	1
25026	07/23/82	13.7	15.3	-1.6	10-N	10-N	80-W	80-W	OGC	339	1
25018	07/20/82	16.8	15.2	1.6	10-N	10-N	79-W	79-W	OGC	343	1
25027	07/23/82	13.7	14.9	-1.2	13-N	16-N	82-W	83-W	OGC	338	1
25017	07/19/82	15.2	14.4	.8	22-N	22-N	88-W	88-W	OGC	341	1
25015	07/16/82	16.8	15.5	1.3	22-N	19-N	94-W	94-W	OGC	341	0
25011	07/15/82	12.2	15.0	-2.8	30-N	30-N	95-W	95-W	OGC	340	2
25012	07/15/82	13.7	15.0	-1.3	30-N	30-N	95-W	95-W	OGC	343	1
25013	07/15/82	16.8	15.0	1.8	30-N	30-N	95-W	95-W	OGC	338	1
25014	07/15/82	19.2	15.0	4.2	30-N	30-N	95-W	95-W	OGC	339	1
25059	08/03/82	19.3	15.0	4.3	33-N	33-N	93-W	93-W	OGC	338	0
25056	08/02/82	13.7	11.8	1.9	42-N	42-N	112-W	112-W	OGC	343	1
25031	07/27/82	15.2	15.1	.1	42-N	42-N	111-W	111-W	OGC	344	1
25058	08/03/82	19.3	11.2	8.1	45-N	45-N	93-W	93-W	OGC	337	1
25055	08/01/82	18.8	10.4	8.4	47-N	48-N	131-W	131-W	OGC	337	1
25054	08/01/82	16.8	10.4	6.4	48-N	48-N	135-W	135-W	OGC	342	0
25053	08/01/82	16.8	10.6	6.2	53-N	52-N	138-W	138-W	OGC	341	1
25052	08/01/82	16.8	10.6	6.2	54-N	53-N	139-W	139-W	OGC	341	1
25041	07/30/82	15.2	11.3	3.9	58-N	59-N	151-W	151-W	OGC	340	0
25047	07/31/82	10.7	11.3	-.6	59-N	60-N	156-W	156-W	OGC	341	1
25045	07/31/82	6.1	11.3	-5.2	60-N	60-N	151-W	151-W	OGC	338	1
25051	08/01/82	16.8	10.2	6.6	60-N	59-N	146-W	146-W	OGC	339	1
25048	07/31/82	16.8	11.3	5.5	61-N	59-N	152-W	152-W	OGC	339	1
25039	07/29/82	18.6	12.1	6.5	61-N	60-N	150-W	150-W	OGC	338	0
25035	07/29/82	12.2	10.9	1.3	71-N	71-N	148-W	148-W	OGC	342	1
25042	07/30/82	15.2	10.1	5.1	71-N	72-N	144-W	144-W	OGC	341	0
25038	07/29/82	16.8	10.9	5.9	71-N	69-N	150-W	150-W	OGC	339	0
25036	07/29/82	12.2	10.9	1.3	72-N	72-N	148-W	148-W	OGC	341	0
25037	07/29/82	16.8	10.7	6.1	75-N	74-N	150-W	150-W	OGC	339	0
25043	07/30/82	18.3	9.8	8.5	75-N	74-N	148-W	148-W	OGC	335	1
26058	10/29/82	18.3	17.2	1.1	0	0	79-W	79-W	OGC	344	0

TABLE 7 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
26054	10/27/82	19.9	16.2	3.7	0	0	79-W	79-W	OGC	341	0
26051	10/27/82	16.8	16.2	.6	3-N	3-N	79-W	79-W	OGC	343	1
26055	10/29/82	15.2	17.2	-2.0	3-S	3-S	79-W	79-W	OGC	343	1
26037	10/26/82	16.8	15.6	1.2	7-N	7-N	79-W	79-W	OGC	343	1
26056	10/29/82	15.2	17.2	-2.0	7-S	7-S	78-W	78-W	OGC	342	1
26052	10/27/82	16.8	16.2	.6	7-S	7-S	78-W	78-W	OGC	341	0
26038	10/26/82	19.2	15.6	3.6	10-N	10-N	79-W	79-W	OGC	342	1
26057	10/29/82	18.3	17.4	.9	10-S	10-S	77-W	77-W	OGC	341	0
26053	10/27/82	19.2	16.2	3.0	10-S	10-S	77-W	77-W	OGC	343	1
26059	10/30/82	13.7	16.8	-3.1	13-N	13-N	82-W	82-W	OGC	341	1
26033	10/22/82	18.7	16.0	2.7	19-N	19-N	93-W	93-W	OGC	342	1
26032	10/22/82	16.8	15.5	1.3	22-N	22-N	93-W	93-W	OGC	342	1
26013	10/13/82	15.2	15.5	-.3	27-N	27-N	96-W	96-W	OGC	342	1
26031	10/22/82	16.5	14.6	1.9	27-N	27-N	93-W	93-W	OGC	343	1
26015	10/13/82	19.2	15.7	3.5	27-N	27-N	96-W	96-W	OGC	339	1
26011	10/13/82	6.1	15.7	-9.6	29-N	29-N	93-W	93-W	OGC	338	0
26012	10/13/82	12.5	15.7	-3.2	29-N	29-N	91-W	91-W	OGC	341	0
26014	10/13/82	16.8	15.7	1.1	29-N	29-N	93-W	93-W	OGC	343	1
26016	10/14/82	16.8	11.5	5.3	34-N	38-N	92-W	93-W	OGC	342	1
26021	10/15/82	15.2	13.2	2.0	36-N	36-N	104-W	104-W	OGC	341	1
26019	10/14/82	19.2	11.5	7.7	37-N	33-N	93-W	93-W	OGC	341	0
26049	10/21/82	13.7	12.2	1.5	39-N	39-N	108-W	108-W	OGC	342	1
26022	10/15/82	15.2	13.6	1.6	42-N	42-N	112-W	112-W	OGC	340	1
26017	10/14/82	16.8	15.0	1.8	42-N	45-N	93-W	93-W	OGC	341	0
26024	10/16/82	13.7	10.0	3.7	45-N	48-N	123-W	124-W	OGC	341	0
26018	10/14/82	19.2	15.0	4.2	45-N	41-N	93-W	93-W	OGC	339	1
26048	10/20/82	15.2	11.1	4.1	50-N	47-N	128-W	123-W	OGC	342	0
26047	10/20/82	16.8	11.5	5.3	54-N	51-N	139-W	136-W	OGC	338	1
26044	10/19/82	6.1	11.3	-5.2	61-N	61-N	150-W	150-W	OGC	341	1
26045	10/19/82	9.1	11.3	-2.2	61-N	61-N	151-W	151-W	OGC	340	0
26029	10/17/82	18.7	9.8	8.9	61-N	61-N	150-W	150-W	OGC	335	0
26041	10/18/82	15.2	11.4	3.8	62-N	65-N	150-W	149-W	OGC	341	1
26046	10/19/82	19.2	11.3	7.9	62-N	61-N	153-W	152-W	OGC	338	1
26025	10/17/82	12.2	8.6	3.6	65-N	65-N	148-W	148-W	OGC	342	1
26026	10/17/82	12.2	10.3	1.9	71-N	71-N	148-W	148-W	OGC	343	1
26042	10/18/82	15.2	10.2	5.0	71-N	71-N	148-W	140-W	OGC	341	0
26028	10/17/82	16.8	10.2	6.6	73-N	73-N	147-W	147-W	OGC	337	0
26027	10/17/82	16.8	10.1	6.7	75-N	75-N	146-W	146-W	OGC	338	0
26043	10/18/82	18.5	10.2	8.3	75-N	71-N	149-W	148-W	OGC	337	0
27049	03/24/83	18.3	17.3	1.0	3-N	7-N	79-W	79-W	OGC	343	0
27057	03/25/83	20.0	16.0	4.0	3-N	7-N	79-W	79-W	OGC	341	1
27056	03/25/83	19.8	16.0	3.8	4-S	4-S	79-W	79-W	OGC	342	0
27046	03/24/83	15.2	17.3	-2.1	7-N	5-N	79-W	79-W	OGC	347	0

TABLE 7 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
27051	03/25/83	16.8	17.3	- .5	7-N	5-N	79-W	79-W	OGC	346	3
27053	03/25/83	16.8	15.8	1.0	7-S	10-S	78-W	77-W	OGC	344	0
27055	03/25/83	19.3	16.0	3.3	7-S	4-S	78-W	79-W	OGC	342	1
27048	03/24/83	18.3	15.8	2.5	10-S	7-S	78-W	78-W	OGC	341	0
27054	03/25/83	19.2	15.8	3.4	10-S	7-S	77-W	77-W	OGC	341	0
27045	03/23/83	19.2	17.3	1.9	13-N	10-N	79-W	79-W	OGC	342	0
27043	03/21/83	15.2	16.2	-1.0	19-N	16-N	84-W	83-W	OGC	342	0
27058	03/26/83	13.7	13.0	.7	22-N	25-N	86-W	88-W	OGC	346	0
27059	03/28/83	19.2	16.5	2.7	22-N	25-N	93-W	93-W	OGC	341	1
27011	03/08/83	6.1	13.2	-7.1	29-N	29-N	94-W	94-W	OGC	345	0
27012	03/08/83	12.2	13.2	-1.0	29-N	29-N	95-W	95-W	OGC	342	1
27013	03/08/83	16.8	13.2	3.6	29-N	28-N	93-W	95-W	OGC	343	1
27014	03/08/83	19.2	13.2	6.0	29-N	29-N	92-W	95-W	OGC	340	1
27015	03/09/83	15.2	3.8	11.4	33-N	35-N	100-W	102-W	OGC	340	0
27041	03/18/83	16.8	11.1	5.7	42-N	45-N	92-W	92-W	OGC	342	0
27016	03/09/83	15.2	12.0	3.2	43-N	44-N	113-W	116-W	OGC	342	1
27018	03/10/83	13.7	12.0	1.7	44-N	47-N	123-W	124-W	OGC	341	0
27017	03/09/83	15.2	12.0	3.2	44-N	45-N	116-W	118-W	OGC	343	1
27042	03/18/83	18.9	10.9	8.0	45-N	40-N	92-W	92-W	OGC	340	0
27019	03/10/83	13.7	10.0	3.7	51-N	53-N	130-W	133-W	OGC	341	0
27028	03/15/83	16.8	11.4	5.4	54-N	52-N	139-W	137-W	OGC	339	1
27021	03/11/83	15.2	8.8	6.4	65-N	68-N	148-W	148-W	OGC	342	1
27024	03/11/83	12.2	8.9	3.3	68-N	65-N	148-W	148-W	OGC	342	1
27027	03/12/83	18.9	9.5	9.4	68-N	65-N	148-W	148-W	OGC	338	1
27039	03/13/83	10.7	9.5	1.2	71-N	68-N	151-W	150-W	OGC	342	0
27031	03/13/83	13.7	9.0	4.7	71-N	72-N	161-W	164-W	OGC	342	0
27022	03/11/83	15.2	7.5	7.7	71-N	75-N	148-W	148-W	OGC	341	1
27025	03/12/83	16.8	7.8	9.0	71-N	75-N	148-W	147-W	OGC	339	0
27036	03/13/83	2.4	8.8	-6.4	72-N	73-N	154-W	153-W	OGC	348	0
27035	03/13/83	2.4	8.8	-6.4	72-N	73-N	157-W	156-W	OGC	357	0
27038	03/13/83	6.1	9.0	-2.9	72-N	71-N	151-W	152-W	OGC	348	0
27037	03/13/83	2.4	8.8	-6.4	73-N	73-N	153-W	151-W	OGC	350	0
27033	03/13/83	2.4	8.8	-6.4	73-N	73-N	162-W	161-W	OGC	350	1
27034	03/13/83	2.4	8.8	-6.4	73-N	73-N	161-W	159-W	OGC	357	0
27032	03/13/83	2.4	8.8	-6.4	73-N	73-N	164-W	162-W	OGC	349	1
27023	03/11/83	12.2	7.5	4.7	75-N	71-N	148-W	148-W	OGC	341	0
28026	09/29/83	19.2	15.0	4.2	19-N	20-N	93-W	94-W	OGC	341	1
28027	09/29/83	19.2	15.0	4.2	20-N	23-N	94-W	94-W	OGC	340	1
28024	09/29/83	16.8	15.0	1.8	22-N	20-N	94-W	94-W	OGC	343	1
28028	09/29/83	19.2	16.0	3.2	23-N	26-N	94-W	94-W	OGC	341	1
28023	09/29/83	16.8	15.5	1.3	26-N	22-N	94-W	94-W	OGC	342	0
28029	09/29/83	19.2	15.8	3.4	26-N	29-N	94-W	93-W	OGC	340	0
28037	09/30/83	16.8	14.9	1.9	28-N	29-N	96-W	94-W	OGC	342	0

TABLE 7 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
28022	09/29/83	16.8	15.6	1.2	28-N	27-N	94-W	94-W	OGC	343	1
28039	09/30/83	19.2	14.9	4.3	28-N	29-N	96-W	94-W	OGC	340	0
28031	09/30/83	6.1	14.9	-8.8	29-N	29-N	95-W	95-W	OGC	339	0
28032	09/30/83	9.1	14.9	-5.8	29-N	29-N	95-W	95-W	OGC	340	0
28033	09/30/83	12.2	14.9	-2.7	29-N	29-N	94-W	95-W	OGC	339	0
28034	09/30/83	13.7	14.9	-1.2	29-N	29-N	95-W	94-W	OGC	339	0
28035	09/30/83	15.2	14.9	.3	29-N	29-N	94-W	95-W	OGC	340	0
28036	09/30/83	15.2	14.9	.3	29-N	28-N	95-W	96-W	OGC	341	1
28021	09/29/83	16.8	15.5	1.3	29-N	28-N	93-W	94-W	OGC	342	0
28038	09/30/83	18.3	14.9	3.4	29-N	29-N	93-W	95-W	OGC	339	0
28011	09/28/83	16.8	15.3	1.5	30-N	31-N	93-W	93-W	OGC	343	1
28019	09/28/83	19.2	15.2	4.0	33-N	33-N	93-W	93-W	OGC	338	0
28012	09/28/83	16.8	13.5	3.3	34-N	35-N	93-W	93-W	OGC	343	0
28018	09/28/83	19.2	13.5	5.7	37-N	34-N	93-W	93-W	OGC	338	0
28013	09/28/83	16.8	11.8	5.0	38-N	39-N	93-W	93-W	OGC	341	0
28017	09/28/83	19.2	11.8	7.4	41-N	39-N	92-W	92-W	OGC	339	1
28014	09/28/83	16.8	11.2	5.6	42-N	45-N	93-W	93-W	OGC	342	1
28016	09/28/83	19.2	11.2	8.0	45-N	44-N	92-W	92-W	OGC	339	1
28015	09/28/83	19.2	10.8	8.4	47-N	45-N	92-W	92-W	OGC	339	0
29013	11/30/83	13.7	14.5	-.8	21-N	21-N	92-W	91-W	OGC	342	1
29012	11/30/83	13.7	14.5	-.8	21-N	21-N	94-W	92-W	OGC	342	1
29014	11/30/83	15.2	14.5	.7	21-N	21-N	91-W	91-W	OGC	343	1
29015	11/30/83	16.8	14.5	2.3	21-N	21-N	91-W	93-W	OGC	342	1
29016	11/30/83	19.8	14.6	5.2	21-N	24-N	93-W	93-W	OGC	340	1
29011	11/30/83	15.2	14.8	.4	27-N	21-N	94-W	94-W	OGC	343	1
29052	11/23/83	18.3	13.1	5.2	27-N	22-N	152-W	157-W	OGC	342	0
29017	11/30/83	19.8	14.0	5.8	27-N	27-N	94-W	94-W	OGC	341	1
29018	11/30/83	19.8	14.0	5.8	27-N	30-N	94-W	93-W	OGC	339	0
29043	11/16/83	15.2	13.4	1.8	30-N	33-N	96-W	99-W	OGC	342	1
29019	11/30/83	16.8	14.5	2.3	30-N	30-N	96-W	96-W	OGC	342	1
29044	11/16/83	15.2	12.2	3.0	35-N	35-N	101-W	101-W	OGC	343	1
29045	11/16/83	15.2	12.2	3.0	39-N	41-N	106-W	109-W	OGC	343	1
29046	11/16/83	15.2	10.0	5.2	45-N	45-N	117-W	117-W	OGC	343	0
29047	11/17/83	9.1	10.2	-1.1	46-N	45-N	122-W	123-W	OGC	342	0
29048	11/17/83	13.7	10.0	3.7	47-N	49-N	124-W	125-W	OGC	341	0
29039	11/22/83	16.8	10.0	6.8	51-N	50-N	130-W	130-W	OGC	342	0
29049	11/17/83	13.7	10.0	3.7	53-N	55-N	135-W	139-W	OGC	341	0
29035	11/21/83	19.2	10.9	8.3	53-N	56-N	150-W	150-W	OGC	340	0
29036	11/21/83	19.2	10.5	8.7	56-N	59-N	150-W	150-W	OGC	340	1
29037	11/21/83	16.8	10.0	6.8	59-N	61-N	150-W	149-W	OGC	341	0
29034	11/21/83	15.2	10.0	5.2	60-N	59-N	150-W	150-W	OGC	342	0
29031	11/20/83	3.1	10.3	-7.2	61-N	62-N	148-W	147-W	OGC	347	1
29038	11/21/83	13.7	10.0	3.7	61-N	61-N	149-W	149-W	OGC	345	0

TABLE 7 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
29032	11/20/83	6.1	10.3	-4.2	62-N	62-N	146-W	145-W	OGC	347	0
29021	11/18/83	12.2	8.0	4.2	62-N	64-N	150-W	149-W	OGC	343	0
29025	11/19/83	15.2	8.1	7.1	63-N	65-N	149-W	149-W	OGC	340	0
29024	11/18/83	16.8	7.8	9.0	65-N	62-N	149-W	149-W	OGC	340	1
29028	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	338	0
29029	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	339	1
29022	11/18/83	12.2	8.0	4.2	68-N	71-N	149-W	148-W	OGC	342	0
29023	11/18/83	12.2	8.0	4.2	71-N	75-N	148-W	148-W	OGC	343	0

TABLE 8
CONCENTRATION OF CH₄ IN PROJECT AIRSTREAM SAMPLES
(nL L⁻¹)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
22056	07/24/81	19.2	14.5	4.7	1-N	3-N	80-W	80-W	OGC	1530	0
22052	07/23/81	9.1	15.2	-6.1	7-N	7-N	80-W	80-W	OGC	1530	0
22053	07/23/81	12.2	15.2	-3.0	7-N	7-N	80-W	80-W	OGC	1540	0
22044	07/21/81	16.8	15.1	1.7	7-N	8-N	80-W	80-W	OGC	1440	3
22051	07/23/81	3.1	15.2	-12.1	9-N	8-N	79-W	79-W	OGC	1530	0
22057	07/25/81	13.7	14.7	-1.0	10-N	13-N	81-W	82-W	OGC	1440	2
22043	07/20/81	15.2	15.5	-.3	10-N	7-N	80-W	79-W	OGC	1430	0
22049	07/21/81	19.2	15.1	4.1	10-N	8-N	80-W	80-W	OGC	1380	0
22045	07/21/81	16.8	15.1	1.7	13-N	14-N	79-W	79-W	OGC	1430	3
22058	07/25/81	13.7	14.6	-.9	16-N	19-N	83-W	85-W	OGC	1430	2
22046	07/21/81	16.8	15.2	1.6	16-N	17-N	79-W	79-W	OGC	1410	0
22048	07/21/81	19.2	15.1	4.1	16-N	13-N	79-W	80-W	OGC	1350	2
22042	07/20/81	15.2	15.4	-.2	19-N	16-N	85-W	83-W	OGC	1410	1
22047	07/21/81	19.2	15.4	3.8	19-N	16-N	79-W	80-W	OGC	1360	2
22041	07/20/81	15.2	15.3	-.1	28-N	25-N	96-W	89-W	OGC	1460	0
22001	07/16/81	12.2	15.4	-3.2	29-N	30-N	95-W	94-W	OGC	1570	0
22002	07/16/81	16.8	15.4	1.4	29-N	29-N	95-W	94-W	OGC	1480	2
22018	07/14/81	13.7	15.6	-1.9	36-N	33-N	100-W	98-W	OGC	1550	2
22017	07/14/81	13.7	15.2	-1.5	39-N	36-N	101-W	100-W	OGC	1560	2
22033	07/08/81	15.2	15.5	-.3	39-N	42-N	105-W	113-W	OGC	1570	1
22016	07/14/81	13.7	14.9	-1.2	41-N	39-N	104-W	101-W	OGC	1540	3
22015	07/14/81	13.7	15.0	-1.3	45-N	41-N	115-W	108-W	OGC	1540	2
22036	07/09/81	13.7	11.0	2.7	45-N	48-N	124-W	125-W	OGC	1470	3
22034	07/08/81	15.2	11.3	3.9	45-N	48-N	117-W	124-W	OGC	1550	0
22035	07/08/81	15.2	11.3	3.9	48-N	50-N	124-W	128-W	OGC	1530	2
22013	07/13/81	16.8	10.0	6.8	48-N	45-N	131-W	128-W	OGC	1400	3
22014	07/13/81	18.9	10.7	8.2	50-N	47-N	129-W	124-W	OGC	1220	1
22037	07/09/81	13.7	10.3	3.4	51-N	51-N	130-W	130-W	OGC	1560	2
22038	07/09/81	13.7	11.4	2.3	57-N	58-N	140-W	141-W	OGC	1570	0
22039	07/09/81	13.7	11.9	1.8	58-N	59-N	141-W	142-W	OGC	1550	0
22023	07/12/81	9.1	10.1	-1.0	60-N	60-N	150-W	151-W	OGC	1610	1
22022	07/12/81	3.1	10.1	-7.0	61-N	61-N	150-W	150-W	OGC	1600	2
23052	10/26/81	15.2	17.1	-1.9	16-N	16-N	83-W	83-W	OGC	1570	2
23051	10/26/81	15.2	16.6	-1.4	25-N	22-N	89-W	86-W	OGC	1460	1
23001	10/14/81	3.1	15.8	-12.7	29-N	29-N	94-W	94-W	OGC	1550	1
23002	10/14/81	9.1	15.8	-6.7	29-N	29-N	94-W	94-W	OGC	1560	4
23003	10/14/81	12.2	15.8	-3.6	29-N	29-N	94-W	94-W	OGC	1550	6
23004	10/14/81	16.8	15.8	1.0	29-N	29-N	94-W	94-W	OGC	1540	4
23005	10/14/81	19.2	15.8	3.4	29-N	29-N	94-W	94-W	OGC	1420	0
23006	10/15/81	16.8	13.6	3.2	34-N	35-N	93-W	93-W	OGC	1500	2

TABLE 8 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
23049	10/21/81	13.7	16.2	-2.5	36-N	35-N	103-W	102-W	OGC	1570	5
23009	10/15/81	19.2	14.9	4.3	37-N	36-N	93-W	93-W	OGC	1380	1
23048	10/21/81	13.7	11.5	2.2	39-N	38-N	108-W	107-W	OGC	1530	1
23021	10/16/81	15.2	13.6	1.6	39-N	42-N	108-W	110-W	OGC	1440	3
23008	10/15/81	19.2	12.6	6.6	41-N	40-N	93-W	93-W	OGC	1300	0
23047	10/21/81	13.7	11.4	2.3	42-N	41-N	118-W	111-W	OGC	1540	1
23007	10/15/81	16.8	11.6	5.2	42-N	43-N	94-W	94-W	OGC	1500	5
23046	10/21/81	13.7	11.3	2.4	44-N	44-N	115-W	115-W	OGC	1570	2
23023	10/17/81	13.7	13.6	.1	48-N	49-N	125-W	125-W	OGC	1600	5
23022	10/16/81	15.2	12.0	3.2	48-N	50-N	123-W	128-W	OGC	1600	5
23043	10/21/81	16.8	12.7	4.1	48-N	48-N	125-W	125-W	OGC	1260	2
23042	10/21/81	16.8	12.4	4.4	51-N	48-N	137-W	135-W	OGC	1460	2
23024	10/17/81	13.7	13.0	.7	54-N	53-N	136-W	136-W	OGC	1400	3
23041	10/21/81	16.8	12.4	4.4	54-N	52-N	141-W	138-W	OGC	1450	1
23034	10/20/81	16.8	11.8	5.0	59-N	59-N	152-W	152-W	OGC	1410	3
23035	10/20/81	16.8	11.8	5.0	60-N	62-N	151-W	149-W	OGC	1400	3
23027	10/18/81	19.2	9.4	9.8	61-N	58-N	150-W	150-W	OGC	1100	7
23033	10/20/81	13.7	11.8	1.9	62-N	60-N	149-W	151-W	OGC	1510	2
23036	10/20/81	19.2	11.8	7.4	63-N	61-N	148-W	151-W	OGC	1160	4
23032	10/20/81	12.2	11.8	.4	64-N	62-N	148-W	149-W	OGC	1530	0
23028	10/19/81	15.2	9.0	6.2	71-N	75-N	148-W	148-W	OGC	1400	2
23026	10/18/81	16.8	9.0	7.8	75-N	71-N	149-W	149-W	OGC	1400	2
23029	10/19/81	19.2	9.0	10.2	75-N	71-N	150-W	150-W	OGC	1100	7
24034	04/21/82	18.3	17.2	1.1	1-N	1-N	80-W	80-W	OGC	1540	6
24033	04/21/82	15.2	17.2	-2.0	3-N	3-N	80-W	80-W	OGC	1550	2
24035	04/21/82	19.2	17.2	2.0	6-N	6-N	79-W	79-W	OGC	1480	3
24037	04/22/82	6.1	17.2	-11.1	10-N	11-N	79-W	79-W	OGC	1560	1
24038	04/22/82	12.2	17.1	-4.9	10-N	13-N	79-W	79-W	OGC	1560	1
24039	04/22/82	19.2	17.1	2.1	12-N	9-N	80-W	80-W	OGC	1470	1
24019	04/19/82	13.7	16.0	-2.3	13-N	13-N	82-W	82-W	OGC	1550	2
24032	04/20/82	19.2	17.1	2.1	13-N	10-N	79-W	80-W	OGC	1470	1
24018	04/19/82	13.7	16.0	-2.3	19-N	16-N	85-W	83-W	OGC	1570	3
24021	04/23/82	15.2	17.2	-2.0	19-N	19-N	85-W	85-W	OGC	1550	1
24031	04/20/82	19.2	16.9	2.3	19-N	17-N	79-W	79-W	OGC	1320	1
24017	04/16/82	18.8	16.0	2.8	22-N	23-N	95-W	95-W	OGC	1460	0
24015	04/16/82	16.8	16.0	.8	25-N	25-N	95-W	95-W	OGC	1520	1
24011	04/15/82	6.1	14.7	-8.6	29-N	29-N	95-W	95-W	OGC	1560	0
24012	04/15/82	12.2	14.7	-2.5	29-N	29-N	95-W	95-W	OGC	1560	1
24013	04/15/82	16.8	14.7	2.1	29-N	29-N	94-W	95-W	OGC	1480	1
24014	04/15/82	19.2	14.7	4.5	29-N	28-N	94-W	96-W	OGC	1150	1
24022	04/27/82	15.2	13.1	2.1	36-N	36-N	104-W	104-W	OGC	1400	1
24055	05/07/82	15.2	11.0	4.2	39-N	39-N	108-W	108-W	OGC	1440	1
24054	05/05/82	13.7	10.7	3.0	41-N	41-N	111-W	110-W	OGC	1440	2

TABLE 8 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
24059	05/07/82	19.2	10.7	8.5	41-N	41-N	109-W	109-W	OGC	1230	2
24053	05/05/82	13.7	10.7	3.0	42-N	41-N	112-W	111-W	OGC	1500	0
24056	05/07/82	16.8	10.4	6.4	43-N	43-N	108-W	108-W	OGC	1190	1
24057	05/07/82	16.8	10.4	6.4	44-N	44-N	108-W	108-W	OGC	1160	1
24023	04/27/82	15.2	12.4	2.8	45-N	45-N	118-W	118-W	OGC	1440	2
24058	05/07/82	18.3	10.6	7.7	45-N	45-N	109-W	109-W	OGC	1310	1
24052	05/04/82	19.2	11.6	7.6	47-N	50-N	131-W	130-W	OGC	1210	1
24025	04/29/82	13.7	10.7	3.0	48-N	51-N	125-W	130-W	OGC	1450	1
24026	04/28/82	13.7	8.8	4.9	54-N	57-N	135-W	139-W	OGC	1300	3
24051	05/04/82	16.8	11.2	5.6	54-N	51-N	139-W	137-W	OGC	1330	1
24046	05/03/82	6.1	9.2	-3.1	61-N	61-N	149-W	149-W	OGC	1620	4
24045	05/02/82	19.2	9.5	9.7	61-N	58-N	150-W	150-W	OGC	1250	1
24047	05/03/82	10.7	8.9	1.8	62-N	62-N	149-W	149-W	OGC	1110	4
24048	05/03/82	12.2	8.9	3.3	62-N	62-N	149-W	149-W	OGC	1390	2
24049	05/03/82	19.2	8.9	10.3	62-N	62-N	150-W	150-W	OGC	1210	2
24044	05/02/82	16.8	8.9	7.9	68-N	65-N	148-W	148-W	OGC	1070	2
24029	05/01/82	19.2	9.6	9.6	68-N	68-N	149-W	149-W	OGC	1090	2
24042	05/02/82	12.2	9.5	2.7	71-N	75-N	149-W	148-W	OGC	1380	5
24027	05/01/82	15.2	10.0	5.2	71-N	71-N	148-W	148-W	OGC	1100	2
24043	05/02/82	16.8	9.5	7.3	75-N	71-N	149-W	148-W	OGC	870	4
24028	05/01/82	18.7	9.8	8.9	75-N	75-N	148-W	148-W	OGC	1140	1
25025	07/23/82	13.7	15.3	-1.6	8-N	8-N	80-W	80-W	OGC	1580	0
25026	07/23/82	13.7	15.3	-1.6	10-N	10-N	80-W	80-W	OGC	1580	2
25018	07/20/82	16.8	15.2	1.6	10-N	10-N	79-W	79-W	OGC	1550	2
25027	07/23/82	13.7	14.9	-1.2	13-N	16-N	82-W	83-W	OGC	1580	1
25028	07/23/82	13.7	14.7	-1.0	16-N	19-N	83-W	83-W	OGC	1590	4
25017	07/19/82	15.2	14.4	.8	22-N	22-N	88-W	88-W	OGC	1540	1
25015	07/16/82	16.8	15.5	1.3	22-N	19-N	94-W	94-W	OGC	1550	1
25011	07/15/82	12.2	15.0	-2.8	30-N	30-N	95-W	95-W	OGC	1580	5
25012	07/15/82	13.7	15.0	-1.3	30-N	30-N	95-W	95-W	OGC	1570	3
25013	07/15/82	16.8	15.0	1.8	30-N	30-N	95-W	95-W	OGC	1450	1
25014	07/15/82	19.2	15.0	4.2	30-N	30-N	95-W	95-W	OGC	1320	3
25059	08/03/82	19.3	15.0	4.3	33-N	33-N	93-W	93-W	OGC	1370	1
25056	08/02/82	13.7	11.8	1.9	42-N	42-N	112-W	112-W	OGC	1570	1
25031	07/27/82	15.2	15.1	.1	42-N	42-N	111-W	111-W	OGC	1500	3
25058	08/03/82	19.3	11.2	8.1	45-N	45-N	93-W	93-W	OGC	1230	1
25055	08/01/82	18.8	10.4	8.4	47-N	48-N	131-W	131-W	OGC	1240	1
25054	08/01/82	16.8	10.4	6.4	48-N	48-N	135-W	135-W	OGC	1490	1
25053	08/01/82	16.8	10.6	6.2	53-N	52-N	138-W	138-W	OGC	1450	1
25033	07/28/82	13.7	11.8	1.9	54-N	54-N	135-W	135-W	OGC	1420	4
25052	08/01/82	16.8	10.6	6.2	54-N	53-N	139-W	139-W	OGC	1430	8
25041	07/30/82	15.2	11.3	3.9	58-N	59-N	151-W	151-W	OGC	1470	5
25047	07/31/82	10.7	11.3	-.6	59-N	60-N	156-W	156-W	OGC	1560	2

TABLE 8 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
25045	07/31/82	6.1	11.3	-5.2	60-N	60-N	151-W	151-W	OGC	1630	1
25046	07/31/82	9.1	11.3	-2.2	60-N	60-N	153-W	153-W	OGC	1640	2
25051	08/01/82	16.8	10.2	6.6	60-N	59-N	146-W	146-W	OGC	1360	10
25048	07/31/82	16.8	11.3	5.5	61-N	59-N	152-W	152-W	OGC	1330	12
25039	07/29/82	18.6	12.1	6.5	61-N	60-N	150-W	150-W	OGC	1140	2
25044	07/30/82	19.2	9.2	10.0	65-N	64-N	149-W	149-W	OGC	1120	3
25035	07/29/82	12.2	10.9	1.3	71-N	71-N	148-W	148-W	OGC	1490	0
25042	07/30/82	15.2	10.1	5.1	71-N	72-N	144-W	144-W	OGC	1390	6
25038	07/29/82	16.8	10.9	5.9	71-N	69-N	150-W	150-W	OGC	1320	4
25036	07/29/82	12.2	10.9	1.3	72-N	72-N	148-W	148-W	OGC	1500	1
25037	07/29/82	16.8	10.7	6.1	75-N	74-N	150-W	150-W	OGC	1310	0
25043	07/30/82	18.3	9.8	8.5	75-N	74-N	148-W	148-W	OGC	1160	2
26058	10/29/82	18.3	17.2	1.1	0	0	79-W	79-W	OGC	1580	1
26054	10/27/82	19.9	16.2	3.7	0	0	79-W	79-W	OGC	1500	1
26051	10/27/82	16.8	16.2	.6	3-N	3-N	79-W	79-W	OGC	1580	2
26055	10/29/82	15.2	17.2	-2.0	3-S	3-S	79-W	79-W	OGC	1580	2
26037	10/26/82	16.8	15.6	1.2	7-N	7-N	79-W	79-W	OGC	1600	0
26056	10/29/82	15.2	17.2	-2.0	7-S	7-S	78-W	78-W	OGC	1580	1
26052	10/27/82	16.8	16.2	.6	7-S	7-S	78-W	78-W	OGC	1580	2
26038	10/26/82	19.2	15.6	3.6	10-N	10-N	79-W	79-W	OGC	1540	5
26057	10/29/82	18.3	17.4	.9	10-S	10-S	77-W	77-W	OGC	1500	1
26053	10/27/82	19.2	16.2	3.0	10-S	10-S	77-W	77-W	OGC	1470	0
26059	10/30/82	13.7	16.8	-3.1	13-N	13-N	82-W	82-W	OGC	1590	1
26033	10/22/82	18.7	16.0	2.7	19-N	19-N	93-W	93-W	OGC	1440	1
26032	10/22/82	16.8	15.5	1.3	22-N	22-N	93-W	93-W	OGC	1610	2
26013	10/13/82	15.2	15.5	-.3	27-N	27-N	96-W	96-W	OGC	1590	1
26031	10/22/82	16.5	14.6	1.9	27-N	27-N	93-W	93-W	OGC	1580	2
26015	10/13/82	19.2	15.7	3.5	27-N	27-N	96-W	96-W	OGC	1280	1
26011	10/13/82	6.1	15.7	-9.6	29-N	29-N	93-W	93-W	OGC	1630	1
26012	10/13/82	12.5	15.7	-3.2	29-N	29-N	91-W	91-W	OGC	1580	1
26014	10/13/82	16.8	15.7	1.1	29-N	29-N	93-W	93-W	OGC	1560	4
26016	10/14/82	16.8	11.5	5.3	34-N	38-N	92-W	93-W	OGC	1580	3
26021	10/15/82	15.2	13.2	2.0	36-N	36-N	104-W	104-W	OGC	1570	3
26019	10/14/82	19.2	11.5	7.7	37-N	33-N	93-W	93-W	OGC	1400	6
26049	10/21/82	13.7	12.2	1.5	39-N	39-N	108-W	108-W	OGC	1590	3
26022	10/15/82	15.2	13.6	1.6	42-N	42-N	112-W	112-W	OGC	1580	0
26017	10/14/82	16.8	15.0	1.8	42-N	45-N	93-W	93-W	OGC	1550	2
26024	10/16/82	13.7	10.0	3.7	45-N	48-N	123-W	124-W	OGC	1590	0
26018	10/14/82	19.2	15.0	4.2	45-N	41-N	93-W	93-W	OGC	1330	4
26048	10/20/82	15.2	11.1	4.1	50-N	47-N	128-W	123-W	OGC	1530	1
26047	10/20/82	16.8	11.5	5.3	54-N	51-N	139-W	136-W	OGC	1350	1
26044	10/19/82	6.1	11.3	-5.2	61-N	61-N	150-W	150-W	OGC	1640	1
26045	10/19/82	9.1	11.3	-2.2	61-N	61-N	151-W	151-W	OGC	1610	0

TABLE 8 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
26029	10/17/82	18.7	9.8	8.9	61-N	61-N	150-W	150-W	OGC	1060	2
26041	10/18/82	15.2	11.4	3.8	62-N	65-N	150-W	149-W	OGC	1490	3
26046	10/19/82	19.2	11.3	7.9	62-N	61-N	153-W	152-W	OGC	1170	0
26025	10/17/82	12.2	8.6	3.6	65-N	65-N	148-W	148-W	OGC	1550	1
26026	10/17/82	12.2	10.3	1.9	71-N	71-N	148-W	148-W	OGC	1530	2
26042	10/18/82	15.2	10.2	5.0	71-N	75-N	148-W	140-W	OGC	1410	1
26028	10/17/82	16.8	10.2	6.6	73-N	73-N	147-W	147-W	OGC	1140	1
26027	10/17/82	16.8	10.1	6.7	75-N	75-N	146-W	146-W	OGC	1220	1
26043	10/18/82	18.5	10.2	8.3	75-N	71-N	149-W	148-W	OGC	1110	2
27049	03/24/83	18.3	17.3	1.0	3-N	7-N	79-W	79-W	OGC	1550	4
27057	03/25/83	20.0	16.0	4.0	3-N	7-N	79-W	79-W	OGC	1500	3
27056	03/25/83	19.8	16.0	3.8	4-S	4-S	79-W	79-W	OGC	1500	0
27046	03/24/83	15.2	17.3	-2.1	7-N	5-N	79-W	79-W	OGC	1630	0
27051	03/25/83	16.8	17.3	-.5	7-N	5-N	79-W	79-W	OGC	1620	4
27053	03/25/83	16.8	15.8	1.0	7-S	10-S	78-W	77-W	OGC	1570	2
27055	03/25/83	19.3	16.0	3.3	7-S	4-S	78-W	79-W	OGC	1500	1
27048	03/24/83	18.3	15.8	2.5	10-S	7-S	78-W	78-W	OGC	1530	2
27054	03/25/83	19.2	15.8	3.4	10-S	7-S	77-W	77-W	OGC	1500	1
27045	03/23/83	19.2	17.3	1.9	13-N	10-N	79-W	79-W	OGC	1540	1
27043	03/21/83	15.2	16.2	-1.0	19-N	16-N	84-W	83-W	OGC	1540	0
27058	03/26/83	13.7	13.0	.7	22-N	25-N	86-W	88-W	OGC	1610	1
27059	03/28/83	19.2	16.5	2.7	22-N	25-N	93-W	93-W	OGC	1470	1
27011	03/08/83	6.1	13.2	-7.1	29-N	29-N	94-W	94-W	OGC	1600	0
27012	03/08/83	12.2	13.2	-1.0	29-N	29-N	95-W	95-W	OGC	1520	1
27013	03/08/83	16.8	13.2	3.6	29-N	28-N	93-W	95-W	OGC	1500	2
27014	03/08/83	19.2	13.2	6.0	29-N	29-N	92-W	95-W	OGC	1370	1
27015	03/09/83	15.2	3.8	11.4	33-N	35-N	100-W	102-W	OGC	1310	0
27041	03/18/83	16.8	11.1	5.7	42-N	45-N	92-W	92-W	OGC	1430	0
27016	03/09/83	15.2	12.0	3.2	43-N	44-N	113-W	116-W	OGC	1580	2
27018	03/10/83	13.7	12.0	1.7	44-N	47-N	123-W	124-W	OGC	1460	0
27017	03/09/83	15.2	12.0	3.2	44-N	45-N	116-W	118-W	OGC	1570	0
27042	03/18/83	18.9	10.9	8.0	45-N	40-N	92-W	92-W	OGC	1220	1
27019	03/10/83	13.7	10.0	3.7	51-N	53-N	130-W	133-W	OGC	1430	0
27028	03/15/83	16.8	11.4	5.4	54-N	52-N	139-W	137-W	OGC	1130	2
27021	03/11/83	15.2	8.8	6.4	65-N	68-N	148-W	148-W	OGC	1480	1
27024	03/11/83	12.2	8.9	3.3	68-N	65-N	148-W	148-W	OGC	1510	1
27027	03/12/83	18.9	9.5	9.4	68-N	65-N	148-W	148-W	OGC	1100	1
27039	03/13/83	10.7	9.5	1.2	71-N	68-N	151-W	150-W	OGC	1510	1
27031	03/13/83	13.7	9.0	4.7	71-N	72-N	161-W	164-W	OGC	1360	2
27022	03/11/83	15.2	7.5	7.7	71-N	75-N	148-W	148-W	OGC	1280	1
27025	03/12/83	16.8	7.8	9.0	71-N	75-N	148-W	147-W	OGC	1300	1
27036	03/13/83	2.4	8.8	-6.4	72-N	73-N	154-W	153-W	OGC	1650	1
27035	03/13/83	2.4	8.8	-6.4	72-N	73-N	157-W	156-W	OGC	1650	1

TABLE 8 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
27038	03/13/83	6.1	9.0	-2.9	72-N	71-N	151-W	152-W	OGC	1620	2
27032	03/13/83	2.4	8.8	-6.4	73-N	73-N	164-W	162-W	OGC	1650	1
27033	03/13/83	2.4	8.8	-6.4	73-N	73-N	162-W	161-W	OGC	1630	3
27034	03/13/83	2.4	8.8	-6.4	73-N	73-N	161-W	159-W	OGC	1650	0
27037	03/13/83	2.4	8.8	-6.4	73-N	73-N	153-W	151-W	OGC	1670	3
27023	03/11/83	12.2	7.5	4.7	75-N	71-N	148-W	148-W	OGC	1420	1
28026	09/29/83	19.2	15.0	4.2	19-N	20-N	93-W	94-W	OGC	1502	1
28027	09/29/83	19.2	15.0	4.2	20-N	23-N	94-W	94-W	OGC	1491	0
28024	09/29/83	16.8	15.0	1.8	22-N	20-N	94-W	94-W	OGC	1593	1
28028	09/29/83	19.2	16.0	3.2	23-N	26-N	94-W	94-W	OGC	1492	1
28023	09/29/83	16.8	15.5	1.3	26-N	22-N	94-W	94-W	OGC	1583	1
28029	09/29/83	19.2	15.8	3.4	26-N	29-N	94-W	93-W	OGC	1468	0
28022	09/29/83	16.8	15.6	1.2	28-N	27-N	94-W	94-W	OGC	1573	0
28037	09/30/83	16.8	14.9	1.9	28-N	29-N	96-W	94-W	OGC	1589	1
28031	09/30/83	6.1	14.9	-8.8	29-N	29-N	95-W	95-W	OGC	1618	1
28032	09/30/83	9.1	14.9	-5.8	29-N	29-N	95-W	95-W	OGC	1608	0
28033	09/30/83	12.2	14.9	-2.7	29-N	29-N	94-W	95-W	OGC	1632	1
28034	09/30/83	13.7	14.9	-1.2	29-N	29-N	95-W	94-W	OGC	1617	0
28035	09/30/83	15.2	14.9	.3	29-N	29-N	94-W	95-W	OGC	1615	0
28036	09/30/83	15.2	14.9	.3	29-N	28-N	95-W	96-W	OGC	1617	1
28021	09/29/83	16.8	15.5	1.3	29-N	28-N	93-W	94-W	OGC	1567	1
28038	09/30/83	18.3	14.9	3.4	29-N	29-N	93-W	95-W	OGC	1434	1
28011	09/28/83	16.8	15.3	1.5	30-N	31-N	93-W	93-W	OGC	1565	1
28019	09/28/83	19.2	15.2	4.0	33-N	33-N	93-W	93-W	OGC	1365	1
28012	09/28/83	16.8	13.5	3.3	34-N	35-N	93-W	93-W	OGC	1606	2
28018	09/28/83	19.2	13.5	5.7	37-N	34-N	93-W	93-W	OGC	1310	1
28013	09/28/83	16.8	11.8	5.0	38-N	39-N	93-W	93-W	OGC	1554	0
28017	09/28/83	19.2	11.8	7.4	41-N	39-N	92-W	92-W	OGC	1343	0
28014	09/28/83	16.8	11.2	5.6	42-N	45-N	93-W	93-W	OGC	1585	1
28016	09/28/83	19.2	11.2	8.0	45-N	44-N	92-W	92-W	OGC	1379	1
28015	09/28/83	19.2	10.8	8.4	47-N	45-N	92-W	92-W	OGC	1391	1
29013	11/30/83	13.7	14.5	-.8	21-N	21-N	92-W	91-W	OGC	1610	1
29012	11/30/83	13.7	14.5	-.8	21-N	21-N	94-W	92-W	OGC	1620	2
29014	11/30/83	15.2	14.5	.7	21-N	21-N	91-W	91-W	OGC	1610	1
29015	11/30/83	16.8	14.5	2.3	21-N	21-N	91-W	93-W	OGC	1620	0
29016	11/30/83	19.8	14.6	5.2	21-N	24-N	93-W	93-W	OGC	1380	1
29011	11/30/83	15.2	14.8	.4	27-N	21-N	94-W	94-W	OGC	1620	0
29052	11/23/83	18.3	13.1	5.2	27-N	22-N	152-W	157-W	OGC	1430	3
29018	11/30/83	19.8	14.0	5.8	27-N	30-N	94-W	93-W	OGC	1330	0
29017	11/30/83	19.8	14.0	5.8	27-N	27-N	94-W	94-W	OGC	1460	0
29043	11/16/83	15.2	13.4	1.8	30-N	33-N	96-W	99-W	OGC	1600	1
29019	11/30/83	16.8	14.5	2.3	30-N	30-N	96-W	96-W	OGC	1580	1
29044	11/16/83	15.2	12.2	3.0	35-N	35-N	101-W	101-W	OGC	1590	1

TABLE 8 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
29045	11/16/83	15.2	12.2	3.0	39-N	41-N	106-W	109-W	OGC	1610	2
29046	11/16/83	15.2	10.0	5.2	45-N	45-N	117-W	117-W	OGC	1540	2
29047	11/17/83	9.1	10.2	-1.1	46-N	45-N	122-W	123-W	OGC	1620	1
29048	11/17/83	13.7	10.0	3.7	47-N	49-N	124-W	125-W	OGC	1550	1
29039	11/22/83	16.8	10.0	6.8	51-N	50-N	130-W	130-W	OGC	1440	1
29049	11/17/83	13.7	10.0	3.7	53-N	55-N	135-W	139-W	OGC	1450	1
29035	11/21/83	19.2	10.9	8.3	53-N	56-N	150-W	150-W	OGC	1400	1
29036	11/21/83	19.2	10.5	8.7	56-N	59-N	150-W	150-W	OGC	1390	1
29037	11/21/83	16.8	10.0	6.8	59-N	61-N	150-W	149-W	OGC	1370	1
29034	11/21/83	15.2	10.0	5.2	60-N	59-N	150-W	150-W	OGC	1480	1
29031	11/20/83	3.1	10.3	-7.2	61-N	62-N	148-W	147-W	OGC	1700	1
29038	11/21/83	13.7	10.0	3.7	61-N	61-N	149-W	149-W	OGC	1590	1
29032	11/20/83	6.1	10.3	-4.2	62-N	62-N	146-W	145-W	OGC	1690	1
29021	11/18/83	12.2	8.0	4.2	62-N	64-N	150-W	149-W	OGC	1520	0
29025	11/19/83	15.2	8.1	7.1	63-N	65-N	149-W	149-W	OGC	1290	1
29024	11/18/83	16.8	7.8	9.0	65-N	62-N	149-W	149-W	OGC	1300	4
29029	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	1180	1
29028	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	1150	1
29022	11/18/83	12.2	8.0	4.2	68-N	71-N	149-W	148-W	OGC	1550	1
29023	11/18/83	12.2	8.0	4.2	71-N	75-N	148-W	148-W	OGC	1540	0

TABLE 9
CONCENTRATION OF COS IN PROJECT AIRSTREAM SAMPLES
(pL L⁻¹)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
22056	07/24/81	19.2	14.5	4.7	1-N	3-N	80-W	80-W	OGC	380	0
22052	07/23/81	9.1	15.2	-6.1	7-N	7-N	80-W	80-W	OGC	441	11
22053	07/23/81	12.2	15.2	-3.0	7-N	7-N	80-W	80-W	OGC	452	1
22044	07/21/81	16.8	15.1	1.7	7-N	8-N	80-W	80-W	OGC	454	4
22051	07/23/81	3.1	15.2	-12.1	9-N	8-N	79-W	79-W	OGC	469	0
22057	07/25/81	13.7	14.7	-1.0	10-N	13-N	81-W	82-W	OGC	373	2
22043	07/20/81	15.2	15.5	- .3	10-N	7-N	80-W	79-W	OGC	471	8
22045	07/21/81	16.8	15.1	1.7	13-N	14-N	79-W	79-W	OGC	415	1
22046	07/21/81	16.8	15.2	1.6	16-N	17-N	79-W	79-W	OGC	410	3
22048	07/21/81	19.2	15.1	4.1	16-N	13-N	79-W	80-W	OGC	419	10
22042	07/20/81	15.2	15.4	- .2	19-N	16-N	85-W	83-W	OGC	459	2
22047	07/21/81	19.2	15.4	3.8	19-N	16-N	79-W	80-W	OGC	427	5
22041	07/20/81	15.2	15.3	- .1	28-N	25-N	96-W	89-W	OGC	504	8
22001	07/16/81	12.2	15.4	-3.2	29-N	30-N	95-W	94-W	OGC	469	4
22002	07/16/81	16.8	15.4	1.4	29-N	29-N	95-W	94-W	OGC	427	11
22031	07/08/81	15.2	14.1	1.1	33-N	36-N	101-W	102-W	OGC	480	0
22018	07/14/81	13.7	15.6	-1.9	36-N	33-N	100-W	98-W	OGC	394	6
22017	07/14/81	13.7	15.2	-1.5	39-N	36-N	101-W	100-W	OGC	425	2
22033	07/08/81	15.2	15.5	- .3	39-N	42-N	105-W	113-W	OGC	430	3
22016	07/14/81	13.7	14.9	-1.2	41-N	39-N	104-W	101-W	OGC	446	5
22015	07/14/81	13.7	15.0	-1.3	45-N	41-N	115-W	108-W	OGC	423	12
22036	07/09/81	13.7	11.0	2.7	45-N	48-N	124-W	125-W	OGC	432	7
22034	07/08/81	15.2	11.3	3.9	45-N	48-N	117-W	124-W	OGC	455	6
22035	07/08/81	15.2	11.3	3.9	48-N	50-N	124-W	128-W	OGC	419	5
22013	07/13/81	16.8	10.0	6.8	48-N	45-N	131-W	128-W	OGC	352	4
22014	07/13/81	18.9	10.7	8.2	50-N	47-N	129-W	124-W	OGC	330	14
22037	07/09/81	13.7	10.3	3.4	51-N	51-N	130-W	130-W	OGC	450	1
22012	07/13/81	16.8	10.7	6.1	54-N	51-N	139-W	136-W	OGC	384	1
22038	07/09/81	13.7	11.4	2.3	57-N	58-N	140-W	141-W	OGC	451	0
22039	07/09/81	13.7	11.9	1.8	58-N	59-N	141-W	142-W	OGC	462	4
22023	07/12/81	9.1	10.1	-1.0	60-N	60-N	150-W	151-W	OGC	437	0
22011	07/13/81	16.8	11.5	5.3	60-N	57-N	146-W	143-W	OGC	406	7
22022	07/12/81	3.1	10.1	-7.0	61-N	61-N	150-W	150-W	OGC	438	7
23002	10/14/81	9.1	15.8	-6.7	29-N	29-N	94-W	94-W	OGC	457	1
23003	10/14/81	12.2	15.8	-3.6	29-N	29-N	94-W	94-W	OGC	451	3
23004	10/14/81	16.8	15.8	1.0	29-N	29-N	94-W	94-W	OGC	476	2
23005	10/14/81	19.2	15.8	3.4	29-N	29-N	94-W	94-W	OGC	440	8
23006	10/15/81	16.8	13.6	3.2	34-N	35-N	93-W	93-W	OGC	460	0
23049	10/21/81	13.7	16.2	-2.5	36-N	35-N	103-W	102-W	OGC	410	0
23009	10/15/81	19.2	14.9	4.3	37-N	36-N	93-W	93-W	OGC	425	5

TABLE 9 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
23048	10/21/81	13.7	11.5	2.2	39-N	38-N	108-W	107-W	OGC	401	7
23021	10/16/81	15.2	13.6	1.6	39-N	42-N	108-W	110-W	OGC	400	0
23008	10/15/81	19.2	12.6	6.6	41-N	40-N	93-W	93-W	OGC	380	1
23047	10/21/81	13.7	11.4	2.3	42-N	41-N	118-W	111-W	OGC	406	2
23007	10/15/81	16.8	11.6	5.2	42-N	43-N	94-W	94-W	OGC	490	3
23046	10/21/81	13.7	11.3	2.4	44-N	44-N	115-W	115-W	OGC	417	1
23023	10/17/81	13.7	13.6	.1	48-N	49-N	125-W	125-W	OGC	420	10
23022	10/16/81	15.2	12.0	3.2	48-N	50-N	123-W	128-W	OGC	440	8
23043	10/21/81	16.8	12.7	4.1	48-N	48-N	125-W	125-W	OGC	303	3
23042	10/21/81	16.8	12.4	4.4	51-N	48-N	137-W	135-W	OGC	417	4
23024	10/17/81	13.7	13.0	.7	54-N	53-N	136-W	136-W	OGC	360	2
23041	10/21/81	16.8	12.4	4.4	54-N	52-N	141-W	138-W	OGC	426	8
23034	10/20/81	16.8	11.8	5.0	59-N	59-N	152-W	152-W	OGC	378	1
23035	10/20/81	16.8	11.8	5.0	60-N	62-N	151-W	149-W	OGC	377	4
23027	10/18/81	19.2	9.4	9.8	61-N	58-N	150-W	150-W	OGC	240	2
23033	10/20/81	13.7	11.8	1.9	62-N	60-N	149-W	151-W	OGC	398	4
23036	10/20/81	19.2	11.8	7.4	63-N	61-N	148-W	151-W	OGC	269	1
23032	10/20/81	12.2	11.8	.4	64-N	62-N	148-W	149-W	OGC	344	4
23028	10/19/81	15.2	9.0	6.2	71-N	75-N	148-W	148-W	OGC	350	4
23026	10/18/81	16.8	9.0	7.8	75-N	71-N	149-W	149-W	OGC	340	1
24034	04/21/82	18.3	17.2	1.1	1-N	1-N	80-W	80-W	OGC	322	7
24033	04/21/82	15.2	17.2	-2.0	3-N	3-N	80-W	80-W	OGC	313	2
24035	04/21/82	19.2	17.2	2.0	6-N	6-N	79-W	79-W	OGC	338	4
24037	04/22/82	6.1	17.2	-11.1	10-N	11-N	79-W	79-W	OGC	432	2
24038	04/22/82	12.2	17.1	-4.9	10-N	13-N	79-W	79-W	OGC	393	8
24039	04/22/82	19.2	17.1	2.1	12-N	9-N	80-W	80-W	OGC	355	15
24019	04/19/82	13.7	16.0	-2.3	13-N	13-N	82-W	82-W	OGC	384	3
24032	04/20/82	19.2	17.1	2.1	13-N	10-N	79-W	80-W	OGC	274	2
24018	04/19/82	13.7	16.0	-2.3	19-N	16-N	85-W	83-W	OGC	337	6
24021	04/23/82	15.2	17.2	-2.0	19-N	19-N	85-W	85-W	OGC	431	4
24031	04/20/82	19.2	16.9	2.3	19-N	17-N	79-W	79-W	OGC	194	1
24017	04/16/82	18.8	16.0	2.8	22-N	23-N	95-W	95-W	OGC	380	4
24016	04/16/82	16.8	16.0	.8	24-N	23-N	95-W	95-W	OGC	336	14
24015	04/16/82	16.8	16.0	.8	25-N	25-N	95-W	95-W	OGC	313	1
24011	04/15/82	6.1	14.7	-8.6	29-N	29-N	95-W	95-W	OGC	457	8
24012	04/15/82	12.2	14.7	-2.5	29-N	29-N	95-W	95-W	OGC	438	6
24013	04/15/82	16.8	14.7	2.1	29-N	29-N	94-W	95-W	OGC	350	3
24014	04/15/82	19.2	14.7	4.5	29-N	28-N	94-W	96-W	OGC	211	1
24022	04/27/82	15.2	13.1	2.1	36-N	36-N	104-W	104-W	OGC	359	10
24055	05/07/82	15.2	11.0	4.2	39-N	39-N	108-W	108-W	OGC	328	0
24054	05/05/82	13.7	10.7	3.0	41-N	41-N	111-W	110-W	OGC	344	0
24059	05/07/82	19.2	10.7	8.5	41-N	41-N	109-W	109-W	OGC	257	3
24053	05/05/82	13.7	10.7	3.0	42-N	41-N	112-W	111-W	OGC	361	7
24056	05/07/82	16.8	10.4	6.4	43-N	43-N	108-W	108-W	OGC	221	7

TABLE 9 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
24057	05/07/82	16.8	10.4	6.4	44-N	44-N	108-W	108-W	OGC	211	1
24023	04/27/82	15.2	12.4	2.8	45-N	45-N	118-W	118-W	OGC	345	3
24058	05/07/82	18.3	10.6	7.7	45-N	45-N	109-W	109-W	OGC	269	3
24052	05/04/82	19.2	11.6	7.6	47-N	50-N	131-W	130-W	OGC	219	1
24025	04/29/82	13.7	10.7	3.0	48-N	51-N	125-W	130-W	OGC	343	24
24026	04/28/82	13.7	8.8	4.9	54-N	57-N	135-W	139-W	OGC	271	4
24051	05/04/82	16.8	11.2	5.6	54-N	51-N	139-W	137-W	OGC	295	5
24046	05/03/82	6.1	9.2	-3.1	61-N	61-N	149-W	149-W	OGC	463	7
24045	05/02/82	19.2	9.5	9.7	61-N	58-N	150-W	150-W	OGC	221	6
24047	05/03/82	10.7	8.9	1.8	62-N	62-N	149-W	149-W	OGC	208	2
24048	05/03/82	12.2	8.9	3.3	62-N	62-N	149-W	149-W	OGC	257	2
24049	05/03/82	19.2	8.9	10.3	62-N	62-N	150-W	150-W	OGC	213	4
24041	05/02/82	12.2	8.9	3.3	65-N	68-N	149-W	148-W	OGC	308	6
24044	05/02/82	16.8	8.9	7.9	68-N	65-N	148-W	148-W	OGC	157	3
24029	05/01/82	19.2	9.6	9.6	68-N	68-N	149-W	149-W	OGC	198	3
24042	05/02/82	12.2	9.5	2.7	71-N	75-N	149-W	148-W	OGC	235	3
24027	05/01/82	15.2	10.0	5.2	71-N	71-N	148-W	148-W	OGC	197	13
24043	05/02/82	16.8	9.5	7.3	75-N	71-N	149-W	148-W	OGC	68	1
24028	05/01/82	18.7	9.8	8.9	75-N	75-N	148-W	148-W	OGC	202	20
25025	07/23/82	13.7	15.3	-1.6	8-N	8-N	80-W	80-W	OGC	435	2
25026	07/23/82	13.7	15.3	-1.6	10-N	10-N	80-W	80-W	OGC	432	8
25018	07/20/82	16.8	15.2	1.6	10-N	10-N	79-W	79-W	OGC	394	0
25028	07/23/82	13.7	14.7	-1.0	16-N	19-N	83-W	83-W	OGC	410	6
25017	07/19/82	15.2	14.4	.8	22-N	22-N	88-W	88-W	OGC	414	1
25015	07/16/82	16.8	15.5	1.3	22-N	19-N	94-W	94-W	OGC	406	11
25011	07/15/82	12.2	15.0	-2.8	30-N	30-N	95-W	95-W	OGC	438	2
25012	07/15/82	13.7	15.0	-1.3	30-N	30-N	95-W	95-W	OGC	456	1
25013	07/15/82	16.8	15.0	1.8	30-N	30-N	95-W	95-W	OGC	340	8
25014	07/15/82	19.2	15.0	4.2	30-N	30-N	95-W	95-W	OGC	304	6
25059	08/03/82	19.3	15.0	4.3	33-N	33-N	93-W	93-W	OGC	312	1
25056	08/02/82	13.7	11.8	1.9	42-N	42-N	112-W	112-W	OGC	419	11
25031	07/27/82	15.2	15.1	.1	42-N	42-N	111-W	111-W	OGC	369	0
25058	08/03/82	19.3	11.2	8.1	45-N	45-N	93-W	93-W	OGC	253	12
25055	08/01/82	18.8	10.4	8.4	47-N	48-N	131-W	131-W	OGC	259	1
25054	08/01/82	16.8	10.4	6.4	48-N	48-N	135-W	135-W	OGC	389	5
25053	08/01/82	16.8	10.6	6.2	53-N	52-N	138-W	138-W	OGC	370	0
25033	07/28/82	13.7	11.8	1.9	54-N	54-N	135-W	135-W	OGC	353	2
25052	08/01/82	16.8	10.6	6.2	54-N	53-N	139-W	139-W	OGC	356	0
25041	07/30/82	15.2	11.3	3.9	58-N	59-N	151-W	151-W	OGC	391	4
25045	07/31/82	6.1	11.3	-5.2	60-N	60-N	151-W	151-W	OGC	409	13
25051	08/01/82	16.8	10.2	6.6	60-N	59-N	146-W	146-W	OGC	308	5
25048	07/31/82	16.8	11.3	5.5	61-N	59-N	152-W	152-W	OGC	309	0
25039	07/29/82	18.6	12.1	6.5	61-N	60-N	150-W	150-W	OGC	220	0
25035	07/29/82	12.2	10.9	1.3	71-N	71-N	148-W	148-W	OGC	362	4

TABLE 9 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
25042	07/30/82	15.2	10.1	5.1	71-N	72-N	144-W	144-W	OGC	329	4
25038	07/29/82	16.8	10.9	5.9	71-N	69-N	150-W	150-W	OGC	301	6
25036	07/29/82	12.2	10.9	1.3	72-N	72-N	148-W	148-W	OGC	373	2
25037	07/29/82	16.8	10.7	6.1	75-N	74-N	150-W	150-W	OGC	295	0
25043	07/30/82	18.3	9.8	8.5	75-N	74-N	148-W	148-W	OGC	216	10
26058	10/29/82	18.3	17.2	1.1	0	0	79-W	79-W	OGC	417	5
26054	10/27/82	19.9	16.2	3.7	0	0	79-W	79-W	OGC	362	2
26051	10/27/82	16.8	16.2	.6	3-N	3-N	79-W	79-W	OGC	413	8
26055	10/29/82	15.2	17.2	-2.0	3-S	3-S	79-W	79-W	OGC	371	1
26037	10/26/82	16.8	15.6	1.2	7-N	7-N	79-W	79-W	OGC	354	3
26056	10/29/82	15.2	17.2	-2.0	7-S	7-S	78-W	78-W	OGC	392	1
26052	10/27/82	16.8	16.2	.6	7-S	7-S	78-W	78-W	OGC	438	1
26038	10/26/82	19.2	15.6	3.6	10-N	10-N	79-W	79-W	OGC	352	0
26057	10/29/82	18.3	17.4	.9	10-S	10-S	77-W	77-W	OGC	361	2
26053	10/27/82	19.2	16.2	3.0	10-S	10-S	77-W	77-W	OGC	353	4
26059	10/30/82	13.7	16.8	-3.1	13-N	13-N	82-W	82-W	OGC	373	2
26033	10/22/82	18.7	16.0	2.7	19-N	19-N	93-W	93-W	OGC	313	3
26032	10/22/82	16.8	15.5	1.3	22-N	22-N	93-W	93-W	OGC	359	1
26013	10/13/82	15.2	15.5	-.3	27-N	27-N	96-W	96-W	OGC	272	1
26031	10/22/82	16.5	14.6	1.9	27-N	27-N	93-W	93-W	OGC	366	0
26011	10/13/82	6.1	15.7	-9.6	29-N	29-N	93-W	93-W	OGC	431	5
26012	10/13/82	12.5	15.7	-3.2	29-N	29-N	91-W	91-W	OGC	355	2
26014	10/13/82	16.8	15.7	1.1	29-N	29-N	93-W	93-W	OGC	415	2
26016	10/14/82	16.8	11.5	5.3	34-N	38-N	92-W	93-W	OGC	374	2
26021	10/15/82	15.2	13.2	2.0	36-N	36-N	104-W	104-W	OGC	303	3
26019	10/14/82	19.2	11.5	7.7	37-N	33-N	93-W	93-W	OGC	337	2
26049	10/21/82	13.7	12.2	1.5	39-N	39-N	108-W	108-W	OGC	349	6
26022	10/15/82	15.2	13.6	1.6	42-N	42-N	112-W	112-W	OGC	340	1
26017	10/14/82	16.8	15.0	1.8	42-N	45-N	93-W	93-W	OGC	314	5
26024	10/16/82	13.7	10.0	3.7	45-N	48-N	123-W	124-W	OGC	314	2
26018	10/14/82	19.2	15.0	4.2	45-N	41-N	93-W	93-W	OGC	275	1
26048	10/20/82	15.2	11.1	4.1	50-N	47-N	128-W	123-W	OGC	246	1
26047	10/20/82	16.8	11.5	5.3	54-N	51-N	139-W	136-W	OGC	355	5
26044	10/19/82	6.1	11.3	-5.2	61-N	61-N	150-W	150-W	OGC	262	6
26045	10/19/82	9.1	11.3	-2.2	61-N	61-N	151-W	151-W	OGC	320	3
26029	10/17/82	18.7	9.8	8.9	61-N	61-N	150-W	150-W	OGC	170	1
26041	10/18/82	15.2	11.4	3.8	62-N	65-N	150-W	149-W	OGC	334	4
26046	10/19/82	19.2	11.3	7.9	62-N	61-N	153-W	152-W	OGC	228	4
26025	10/17/82	12.2	8.6	3.6	65-N	65-N	148-W	148-W	OGC	311	1
26026	10/17/82	12.2	10.3	1.9	71-N	71-N	148-W	148-W	OGC	338	1
26042	10/18/82	15.2	10.2	5.0	71-N	75-N	148-W	140-W	OGC	301	2
26028	10/17/82	16.8	10.2	6.6	73-N	73-N	147-W	147-W	OGC	214	1
26027	10/17/82	16.8	10.1	6.7	75-N	75-N	146-W	146-W	OGC	225	0
26043	10/18/82	18.5	10.2	8.3	75-N	71-N	149-W	148-W	OGC	198	1

TABLE 9 (CONT'D)

EML No.	Flight Date	Alt. (km)	Trop. (km)	Normal Alt.	Begin Lat.	End Lat.	Begin Long.	End. Long.	Lab.	Conc.	Error
29013	11/30/83	13.7	14.5	-.8	21-N	21-N	92-W	91-W	OGC	383	5
29012	11/30/83	13.7	14.5	-.8	21-N	21-N	94-W	92-W	OGC	355	2
29014	11/30/83	15.2	14.5	.7	21-N	21-N	91-W	91-W	OGC	328	6
29015	11/30/83	16.8	14.5	2.3	21-N	21-N	91-W	93-W	OGC	308	8
29016	11/30/83	19.8	14.6	5.2	21-N	24-N	93-W	93-W	OGC	307	3
29011	11/30/83	15.2	14.8	.4	27-N	21-N	94-W	94-W	OGC	349	2
29052	11/23/83	18.3	13.1	5.2	27-N	22-N	152-W	157-W	OGC	347	3
29018	11/30/83	19.8	14.0	5.8	27-N	30-N	94-W	93-W	OGC	315	1
29017	11/30/83	19.8	14.0	5.8	27-N	27-N	94-W	94-W	OGC	316	3
29019	11/30/83	16.8	14.5	2.3	30-N	30-N	96-W	96-W	OGC	382	0
29045	11/16/83	15.2	12.2	3.0	39-N	41-N	106-W	109-W	OGC	287	6
29046	11/16/83	15.2	10.0	5.2	45-N	45-N	117-W	117-W	OGC	282	10
29039	11/22/83	16.8	10.0	6.8	51-N	50-N	130-W	130-W	OGC	321	1
29035	11/21/83	19.2	10.9	8.3	53-N	56-N	150-W	150-W	OGC	329	1
29036	11/21/83	19.2	10.5	8.7	56-N	59-N	150-W	150-W	OGC	313	1
29037	11/21/83	16.8	10.0	6.8	59-N	61-N	150-W	149-W	OGC	286	4
29034	11/21/83	15.2	10.0	5.2	60-N	59-N	150-W	150-W	OGC	333	0
29031	11/20/83	3.1	10.3	-7.2	61-N	62-N	148-W	147-W	OGC	398	2
29038	11/21/83	13.7	10.0	3.7	61-N	61-N	149-W	149-W	OGC	384	1
29032	11/20/83	6.1	10.3	-4.2	62-N	62-N	146-W	145-W	OGC	349	3
29021	11/18/83	12.2	8.0	4.2	62-N	64-N	150-W	149-W	OGC	369	5
29025	11/19/83	15.2	8.1	7.1	63-N	65-N	149-W	149-W	OGC	256	5
29029	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	249	5
29028	11/19/83	19.2	8.1	11.1	65-N	64-N	148-W	149-W	OGC	186	5
29022	11/18/83	12.2	8.0	4.2	68-N	71-N	149-W	148-W	OGC	348	1
29023	11/18/83	12.2	8.0	4.2	71-N	75-N	148-W	148-W	OGC	368	7

DOE HIGH ALTITUDE SAMPLING PROGRAM

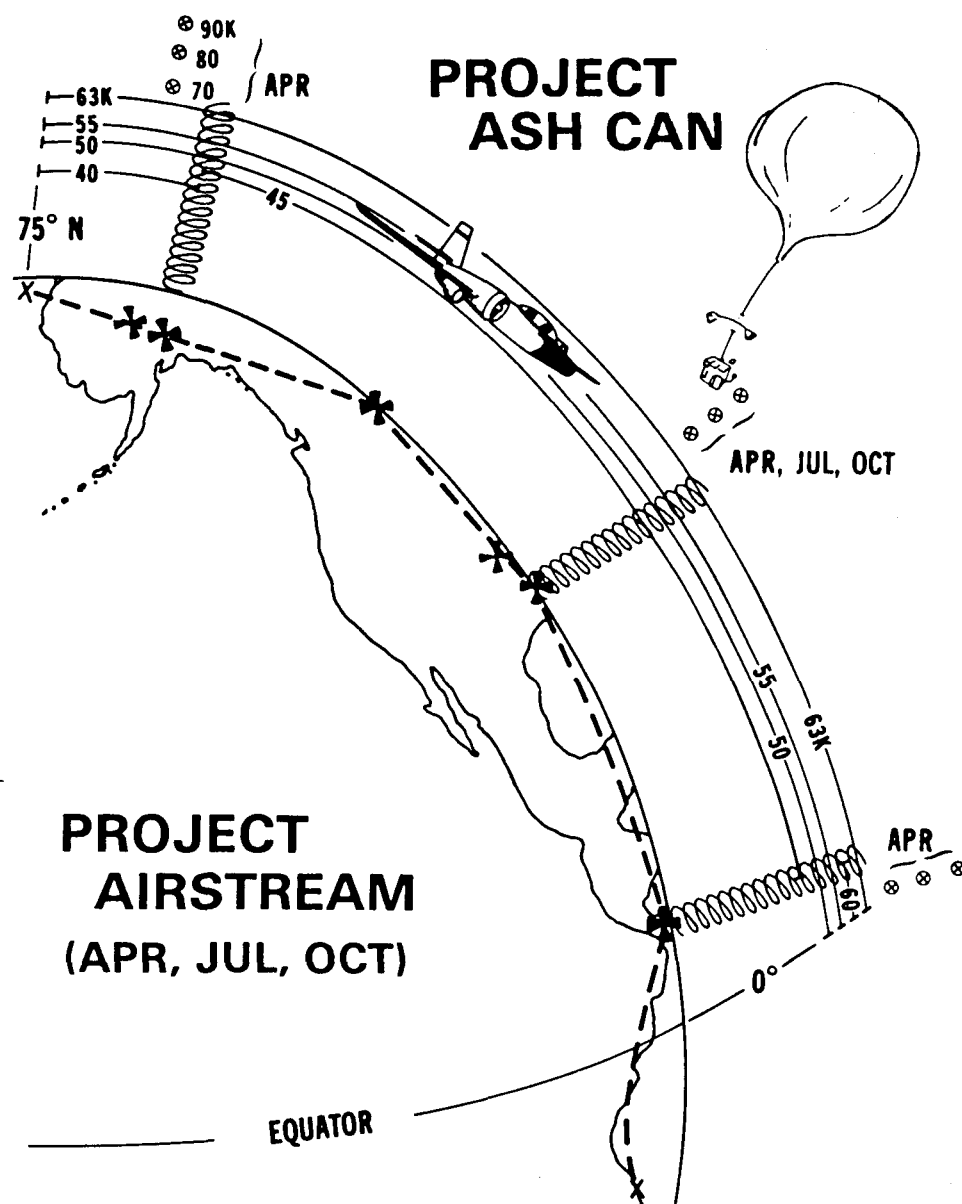


Figure 2. Flight profile for Project AIRSTREAM starting with 1977.

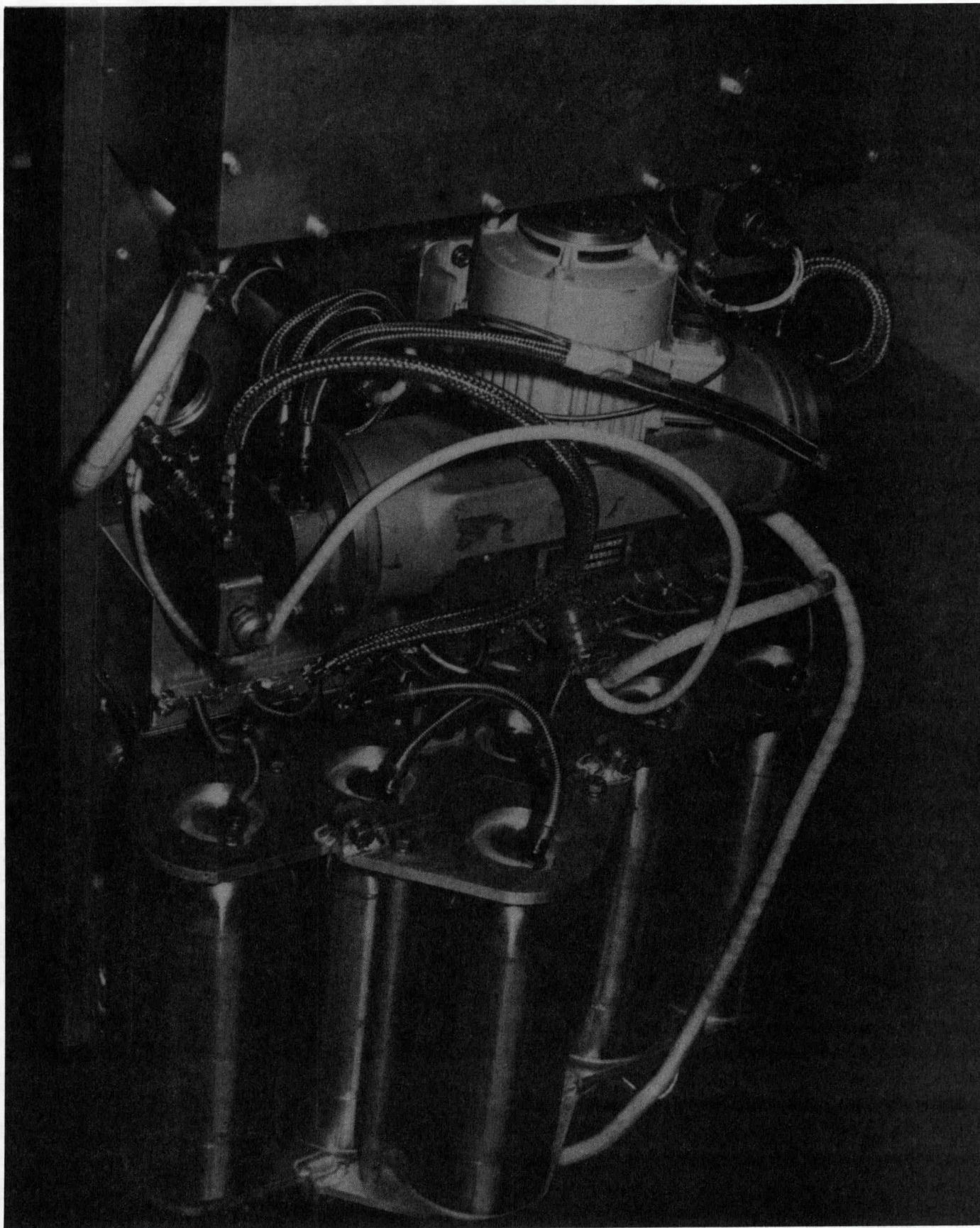


Figure 3. P-system sample bottles ready to be loaded into aircraft.

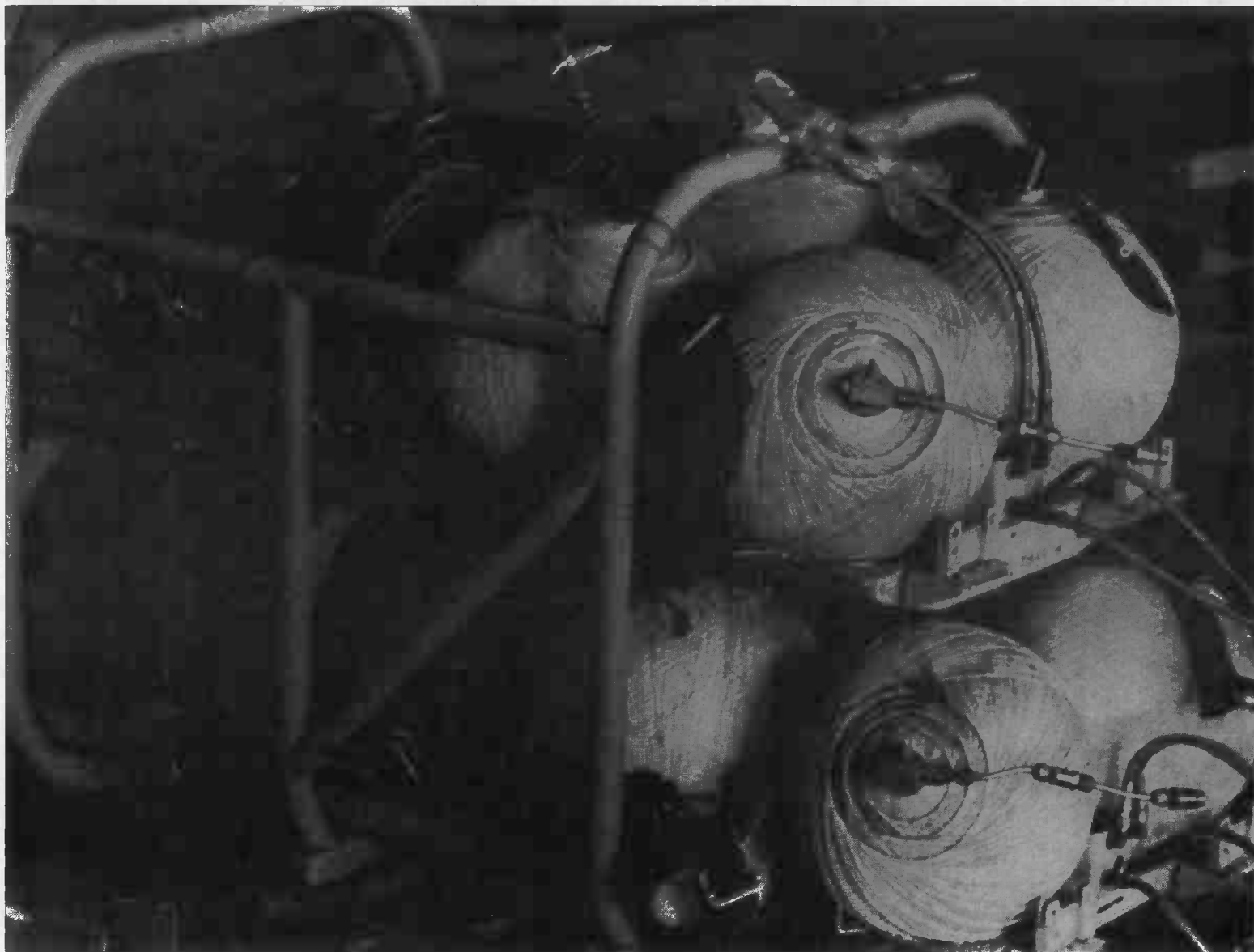


Figure 4. Clean air sampling system showing sample rack compressor and electronics box.

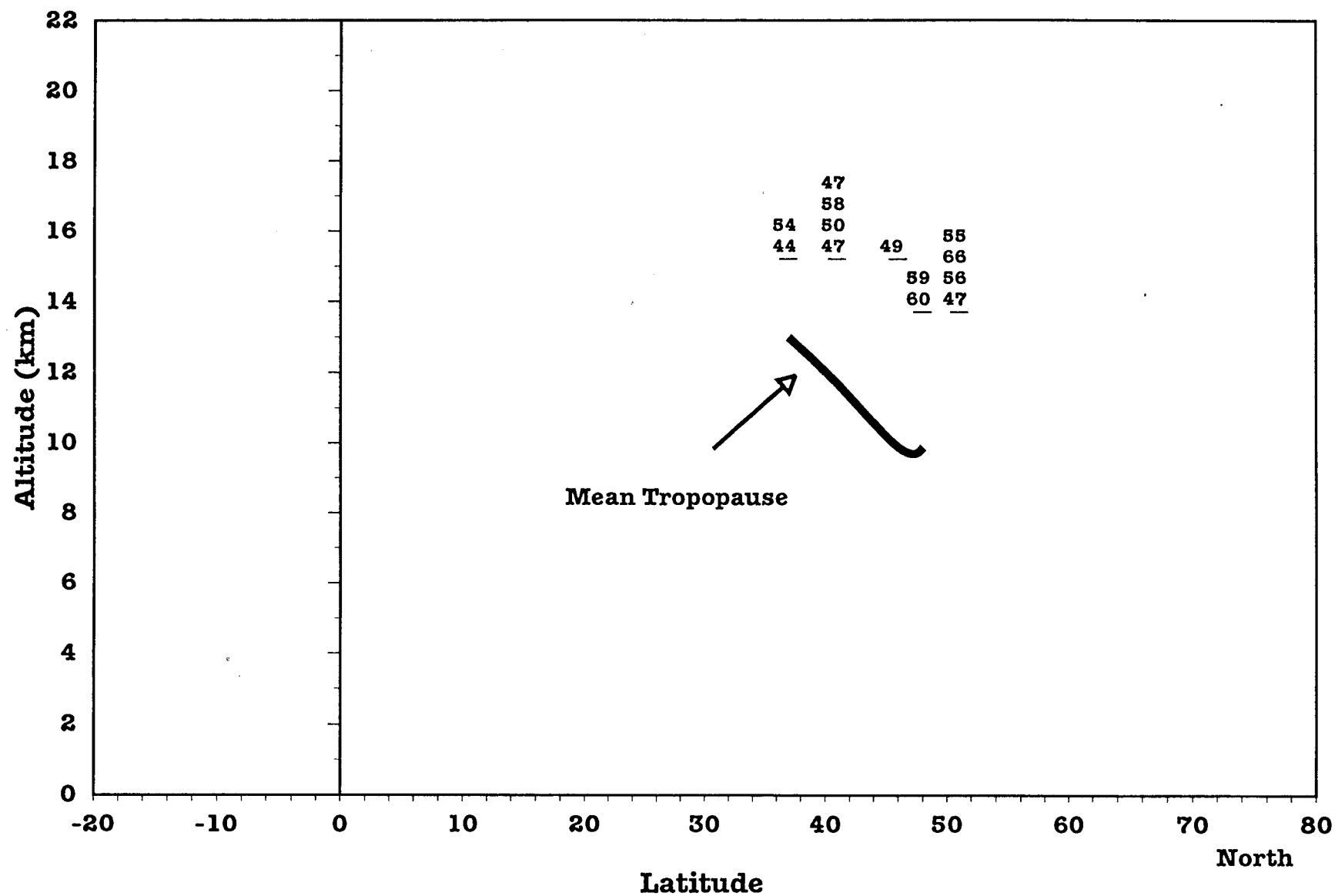


Figure 5. CCl₃F mixing ratio pL L⁻¹ in the stratospheric air for November 1973

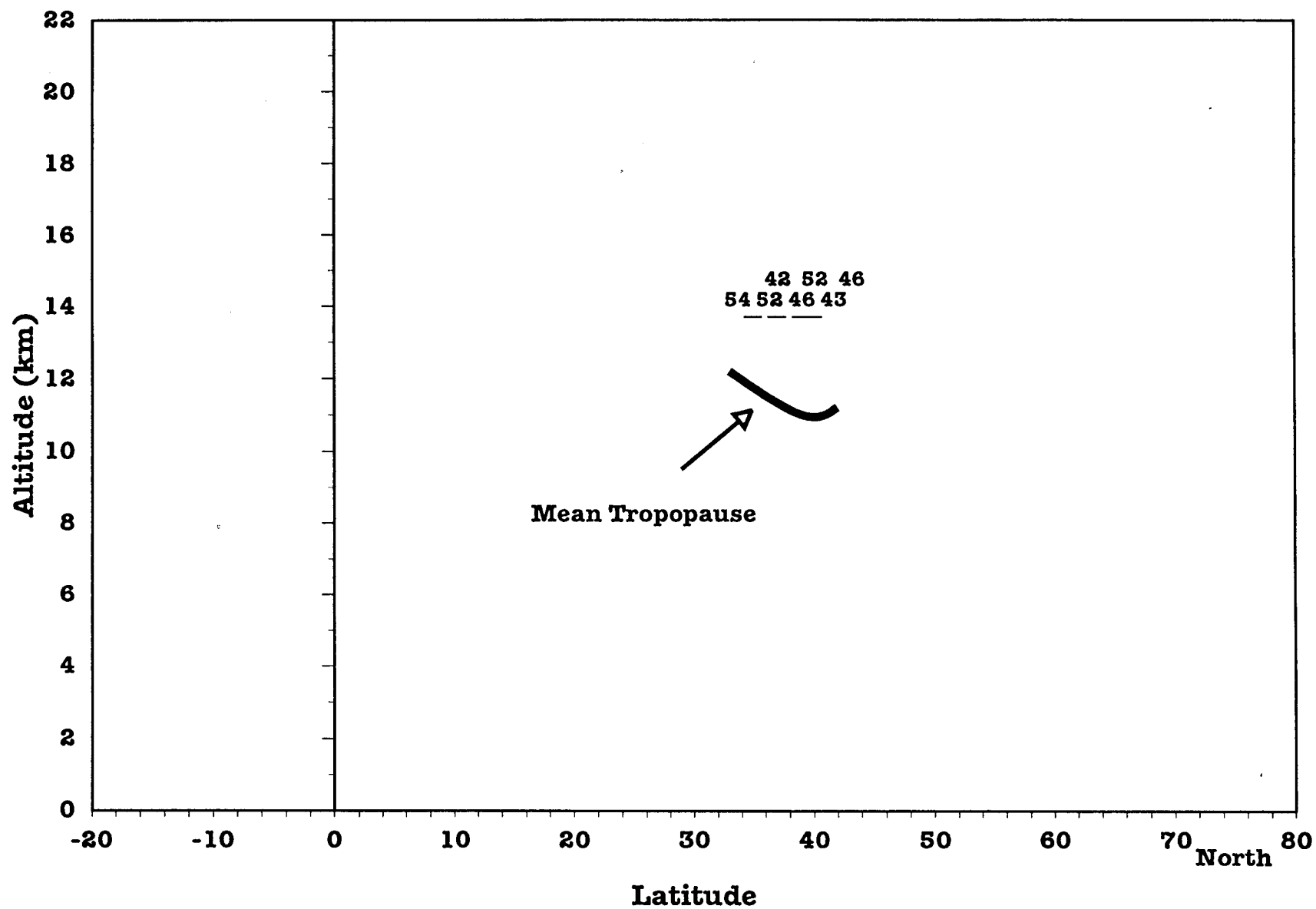


Figure 6. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for February 1974

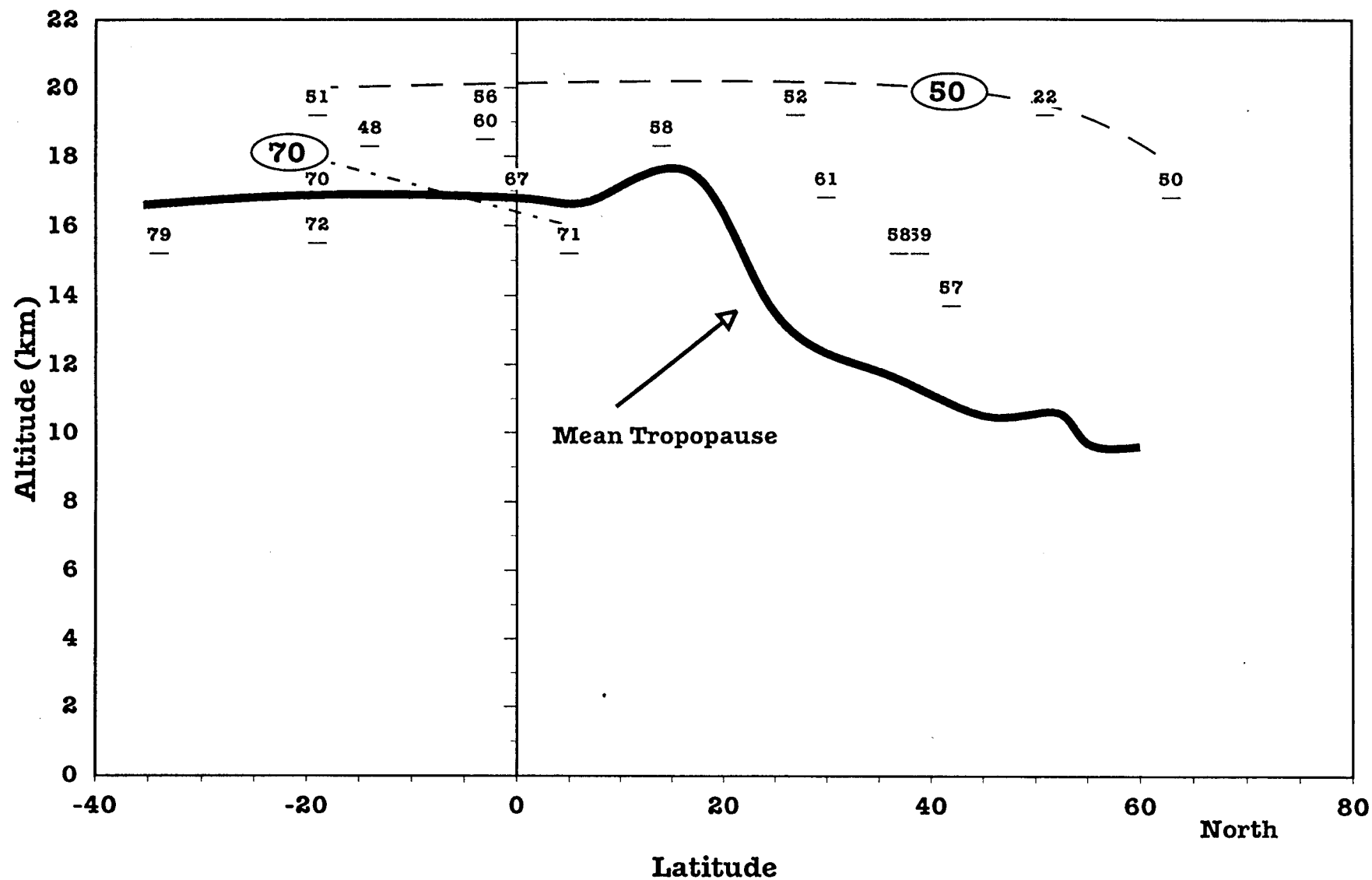


Figure 7. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for April 1974

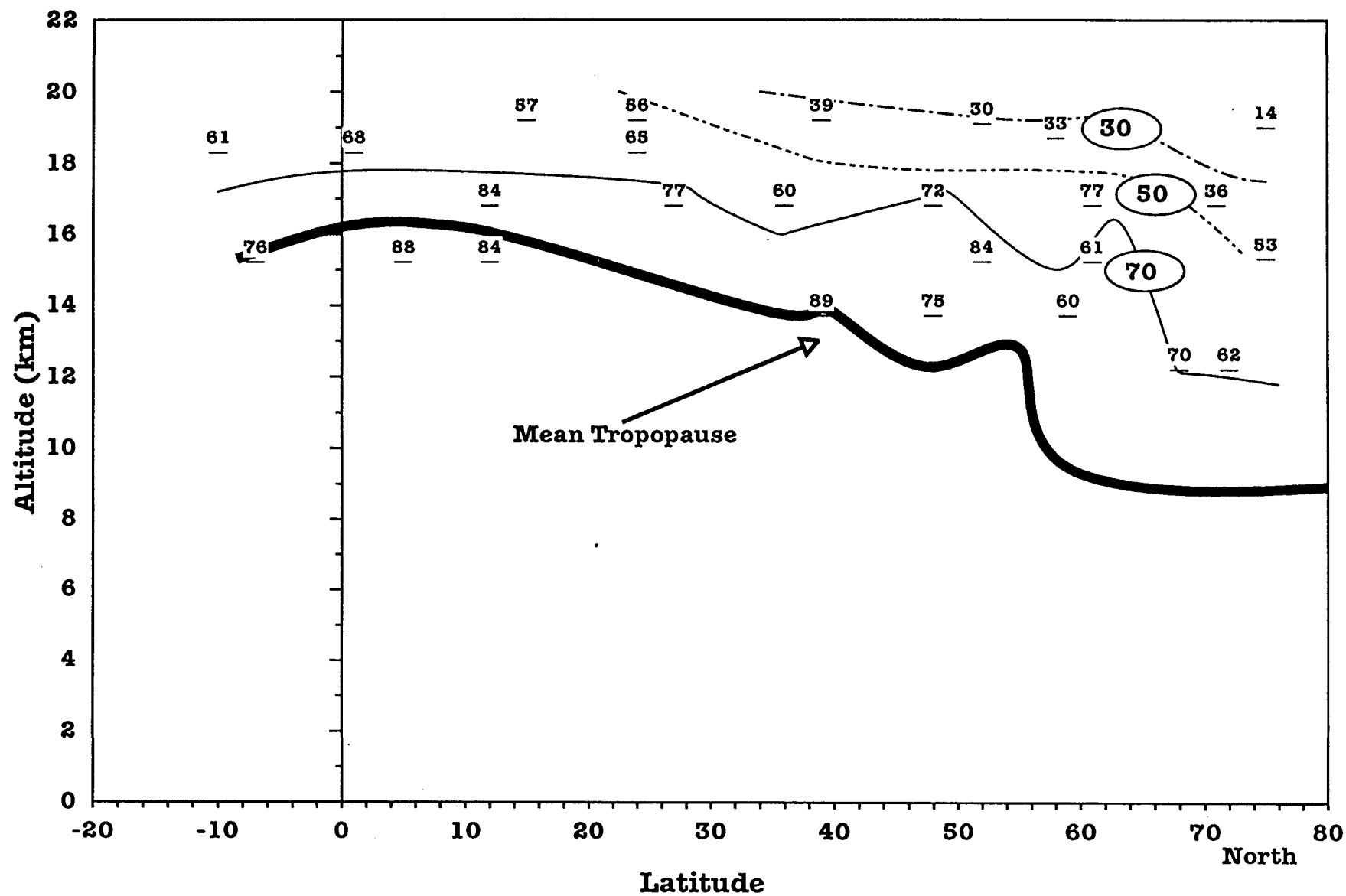


Figure 8. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for October 1974

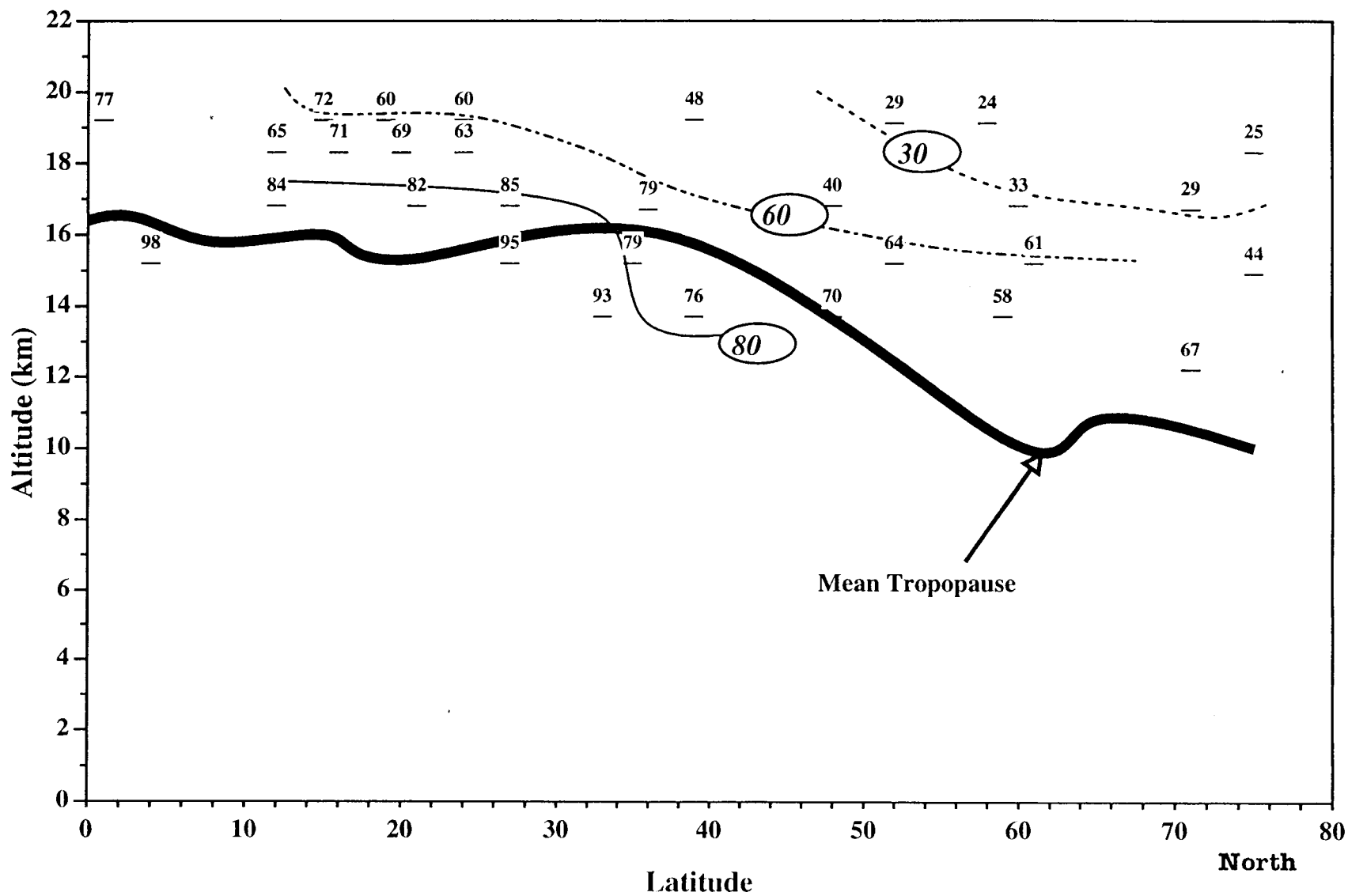


Figure 9. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for April 1975

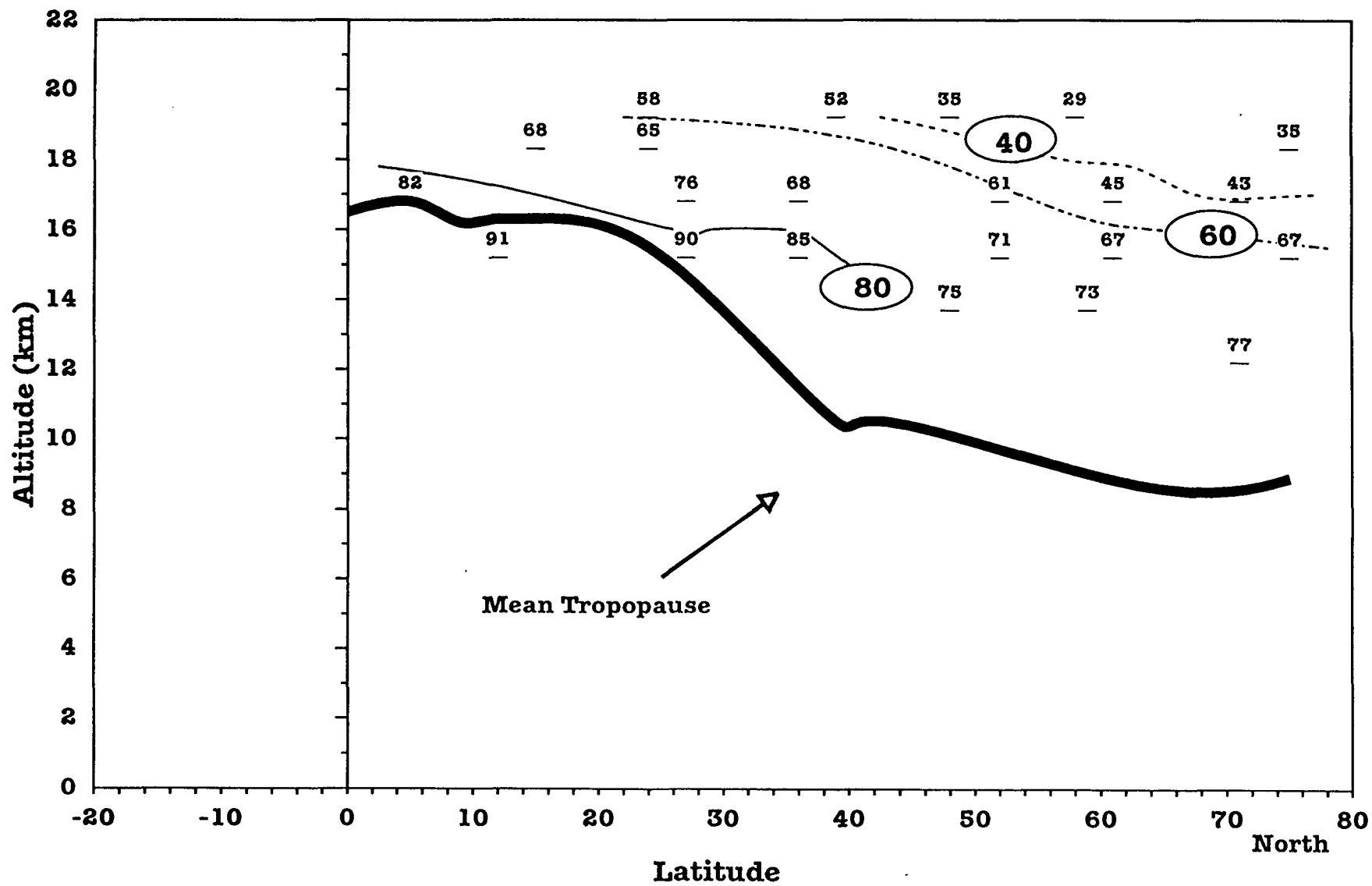


Figure 10. CCl₃F mixing ratio pL L⁻¹ in the stratospheric air for July 1975

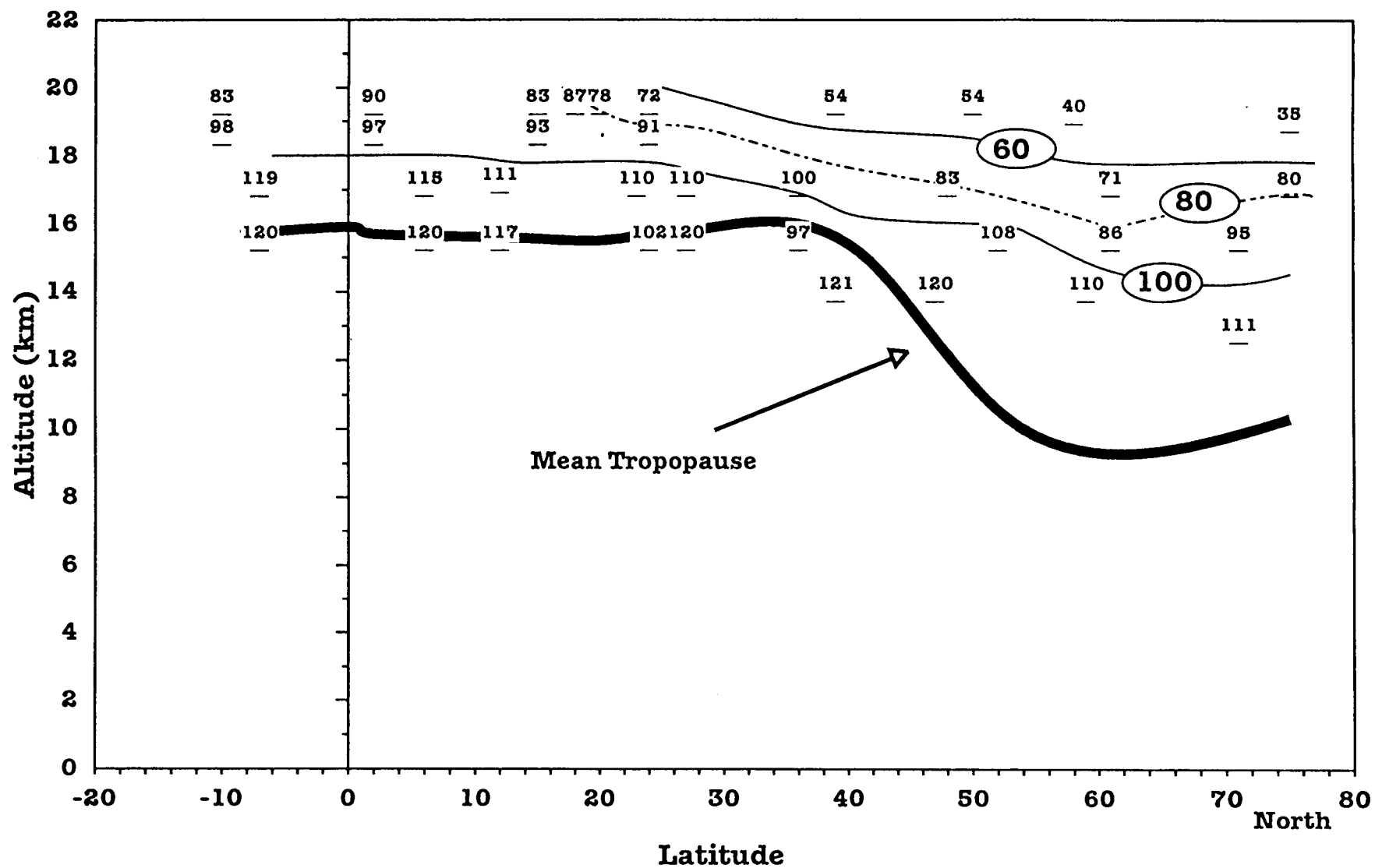


Figure 12. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for August 1976

Figure 13. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for November 1976

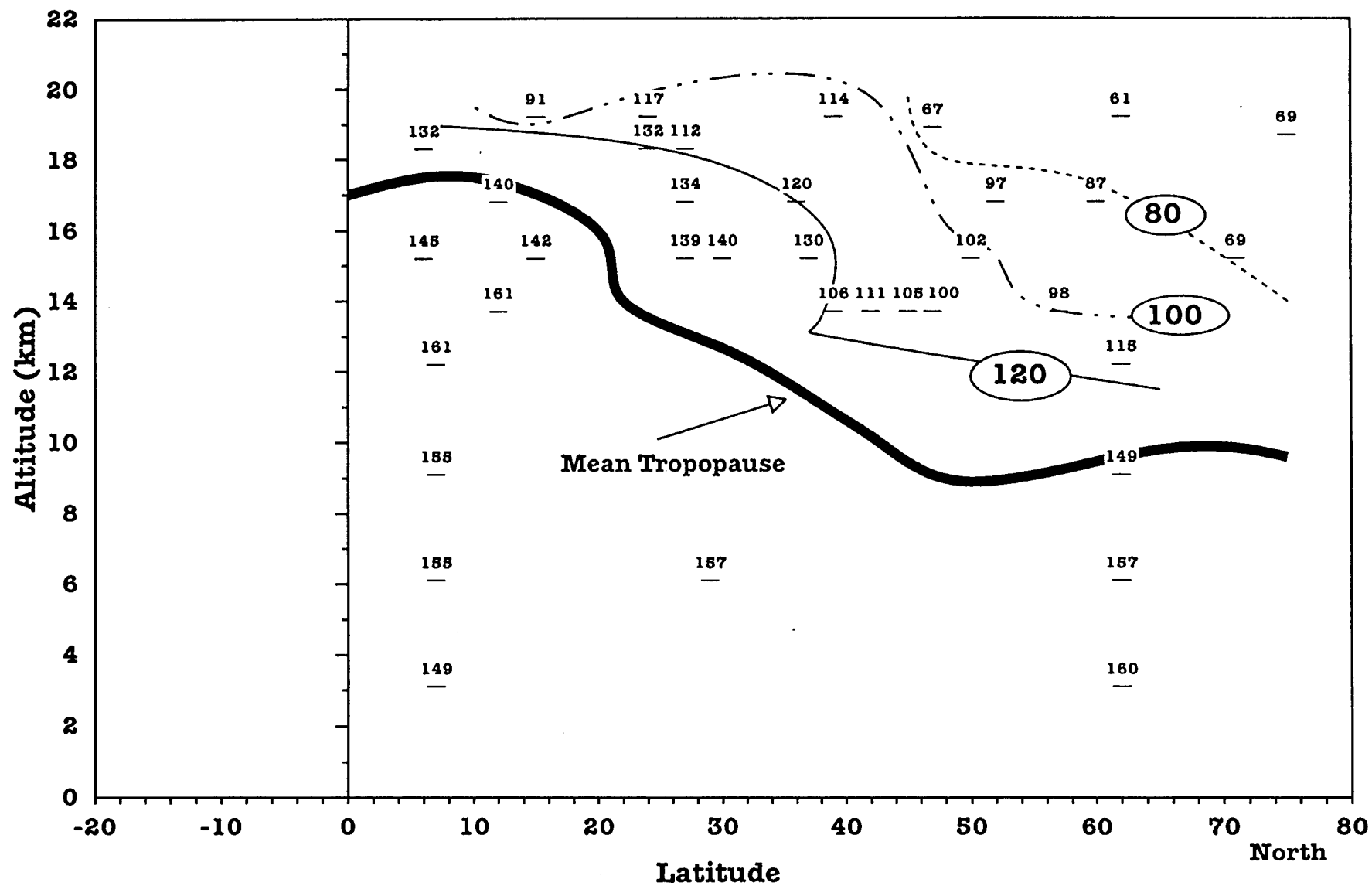


Figure 14. CCl₃F mixing ratio pL L⁻¹ in the stratospheric air for April 1978

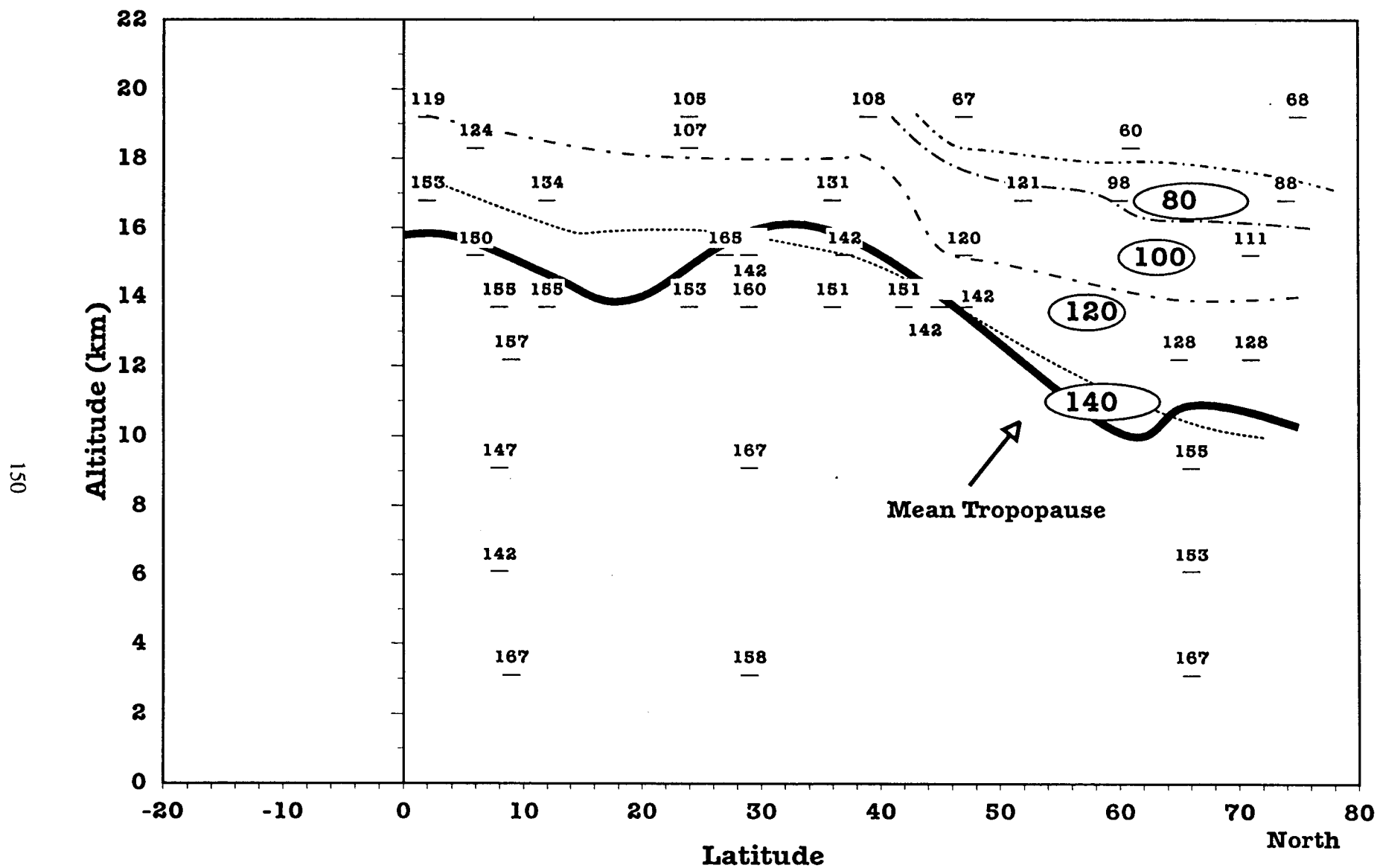


Figure 15. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for July 1978

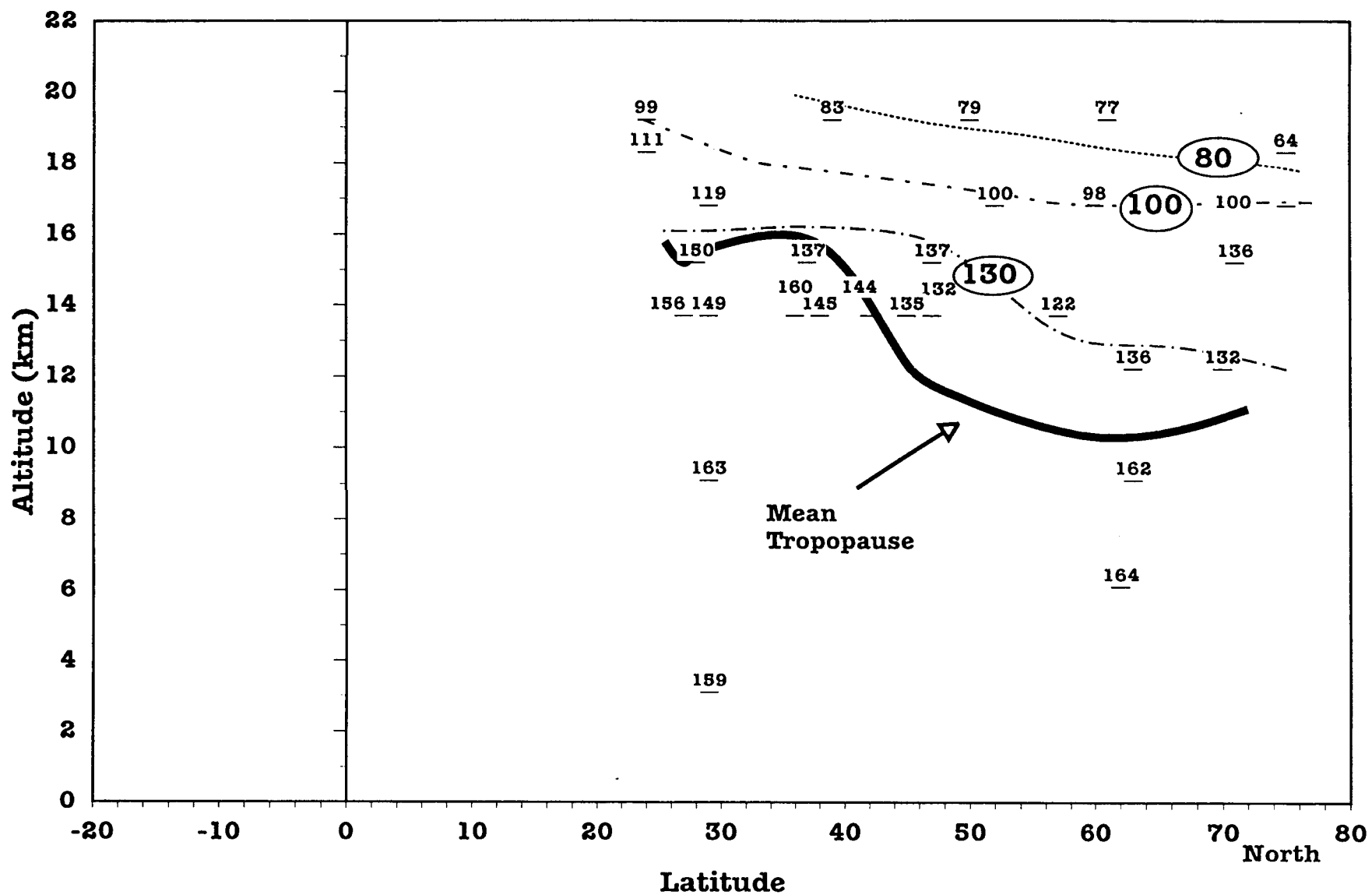


Figure 16. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for July 1979

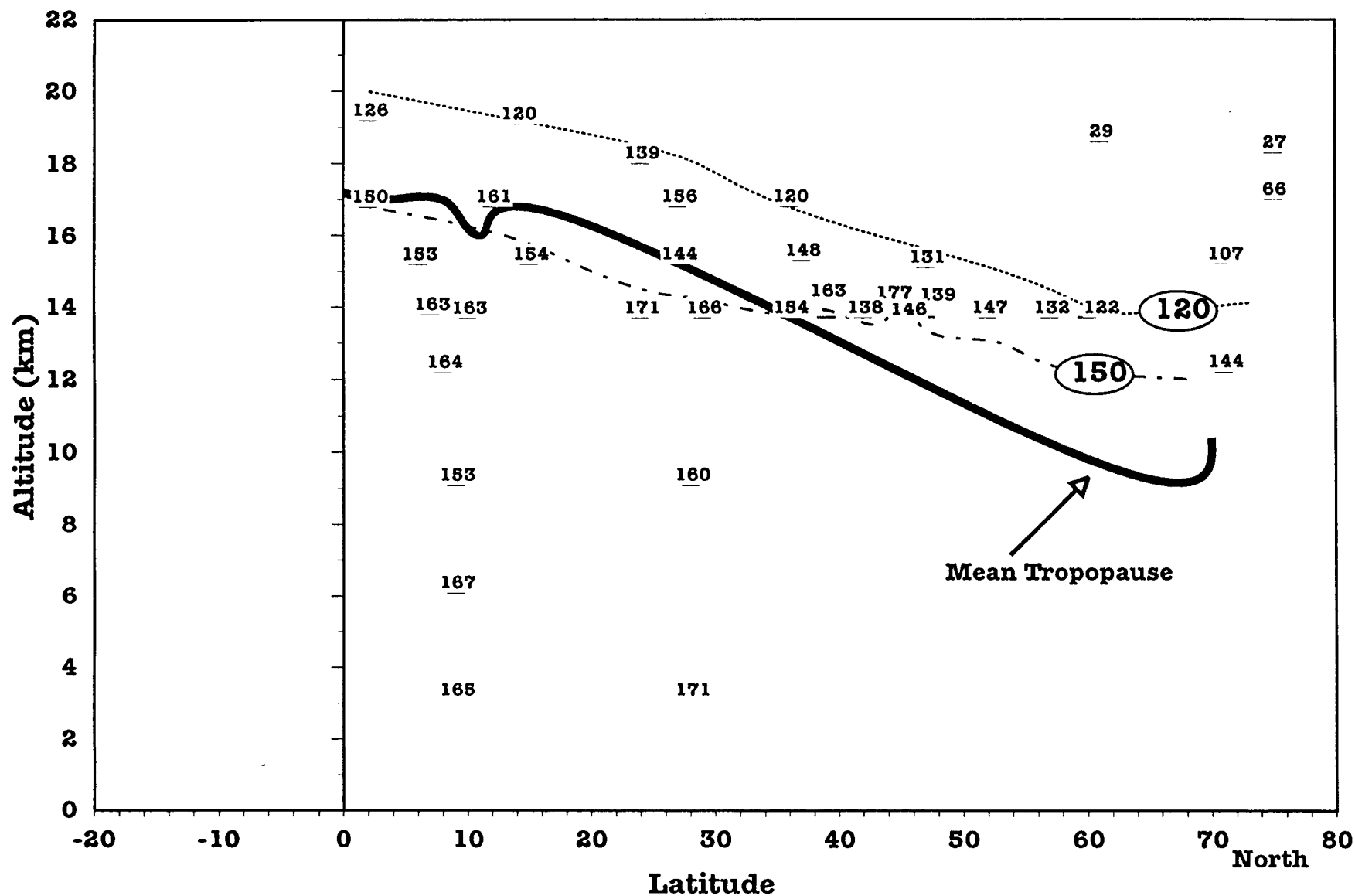


Figure 17. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for November 1979

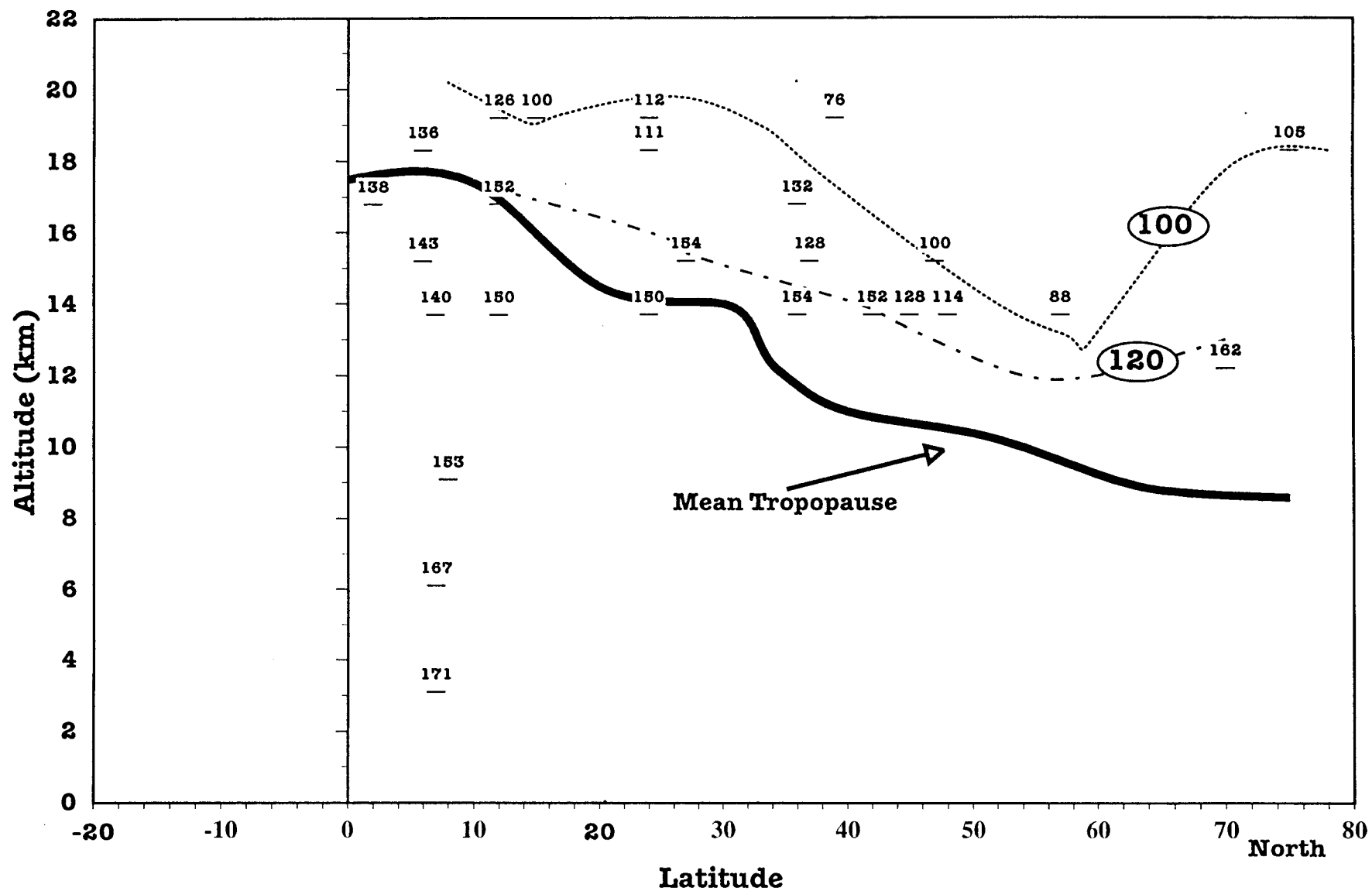


Figure 18. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for April 1980

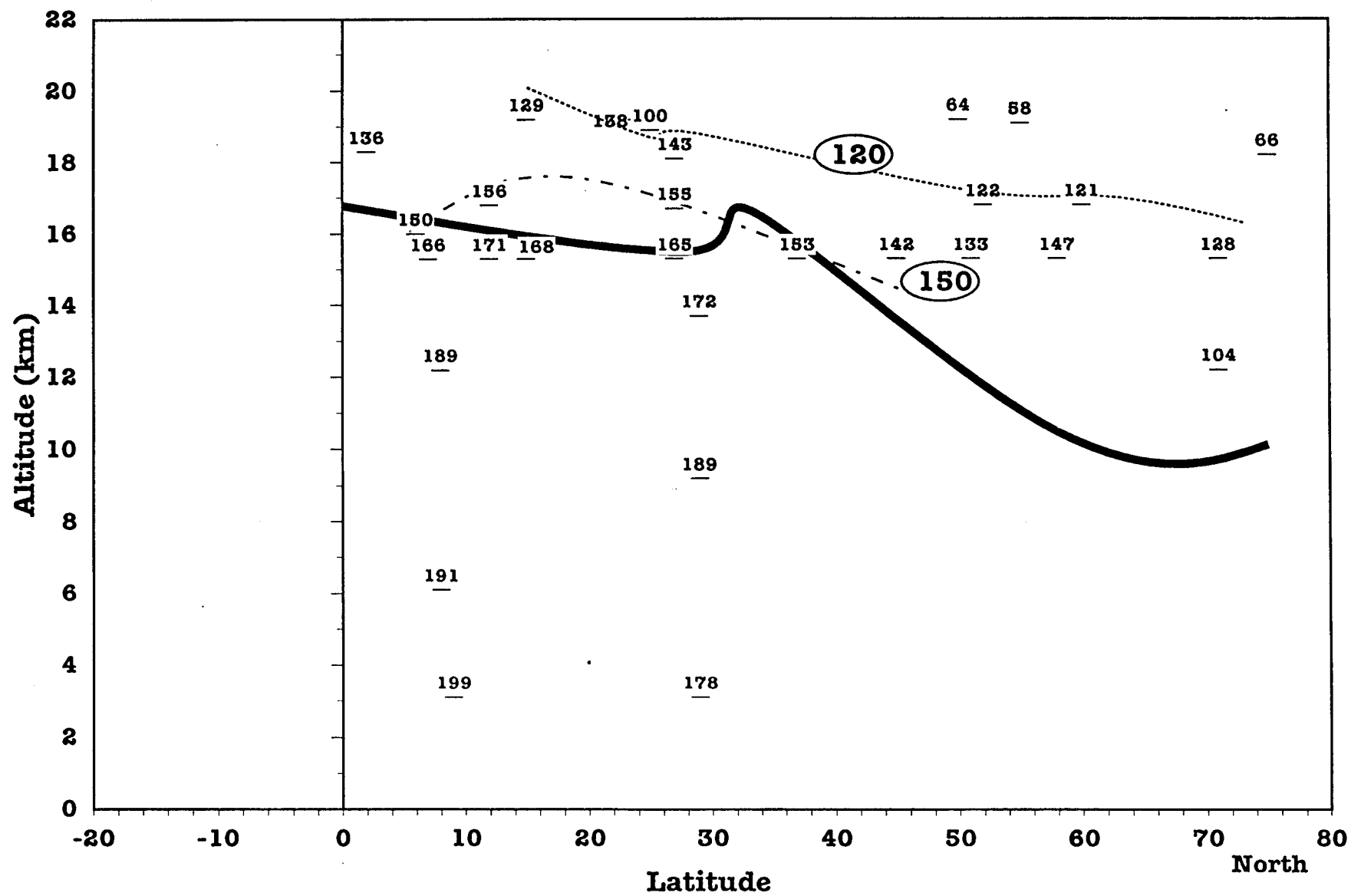


Figure 19. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for August 1980

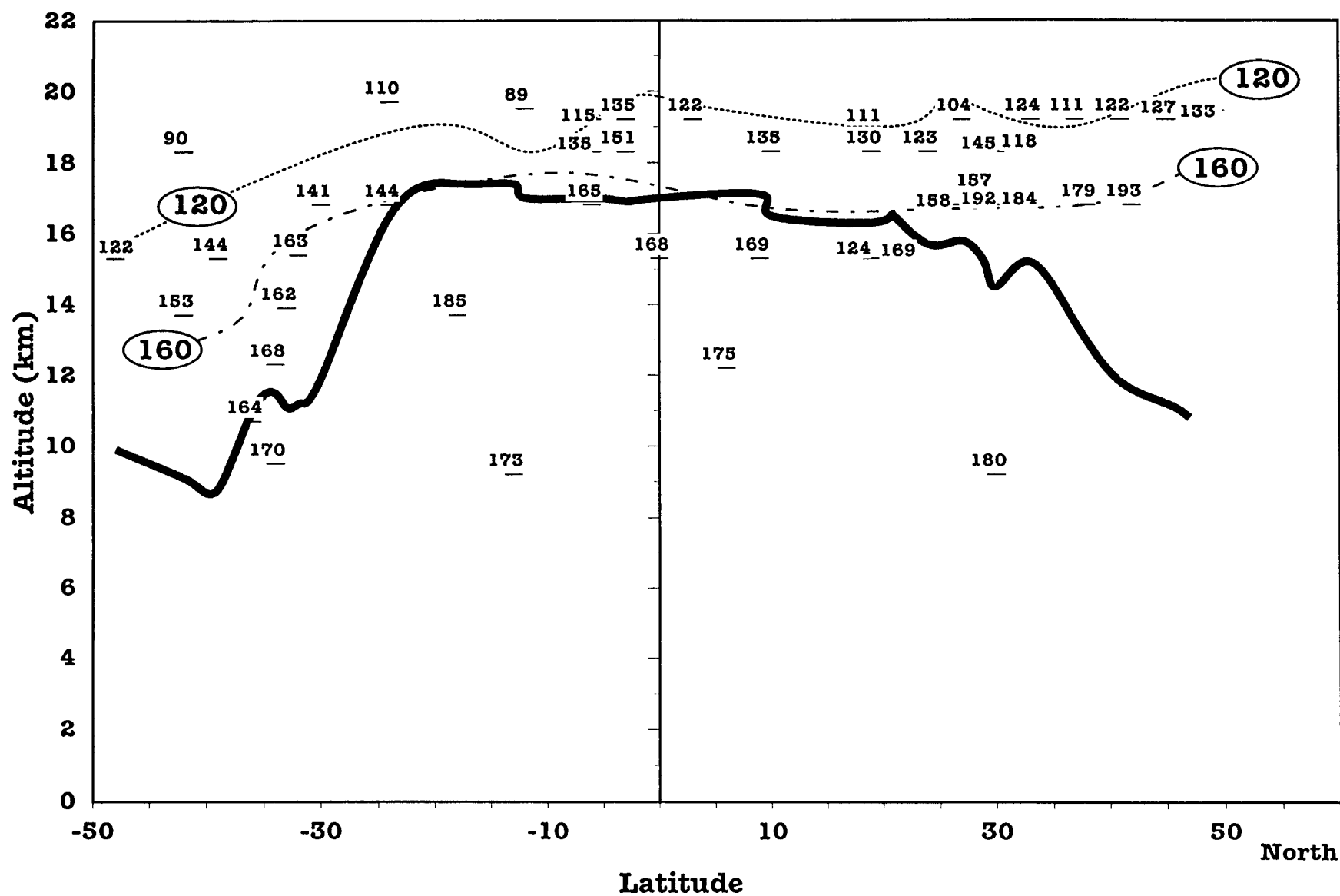


Figure 20. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for October 1980

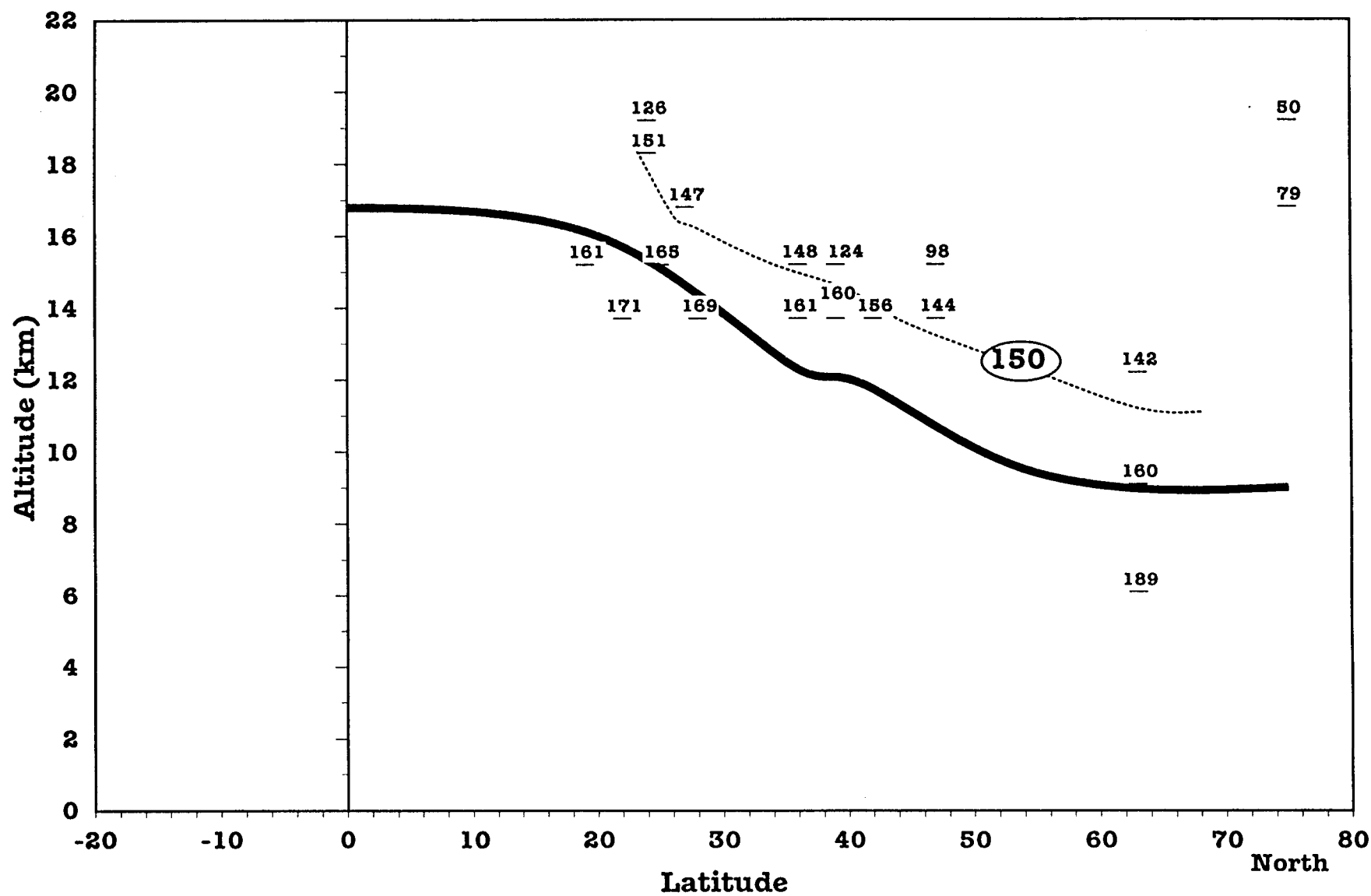


Figure 21. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for April 1981

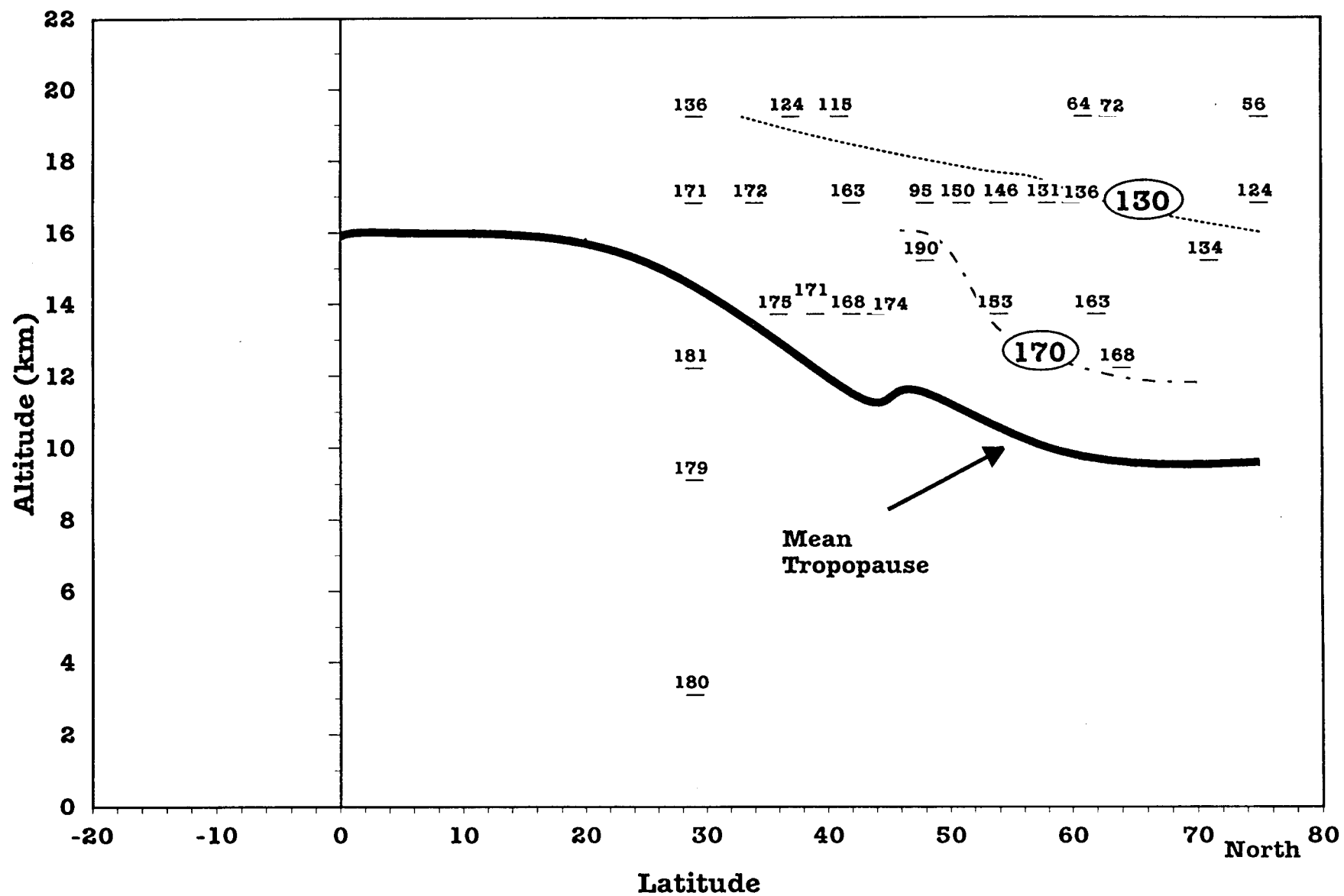


Figure 22. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for October 1981

Figure 23. CCl₃F mixing ratio pL L⁻¹ in the stratospheric air for May 1982

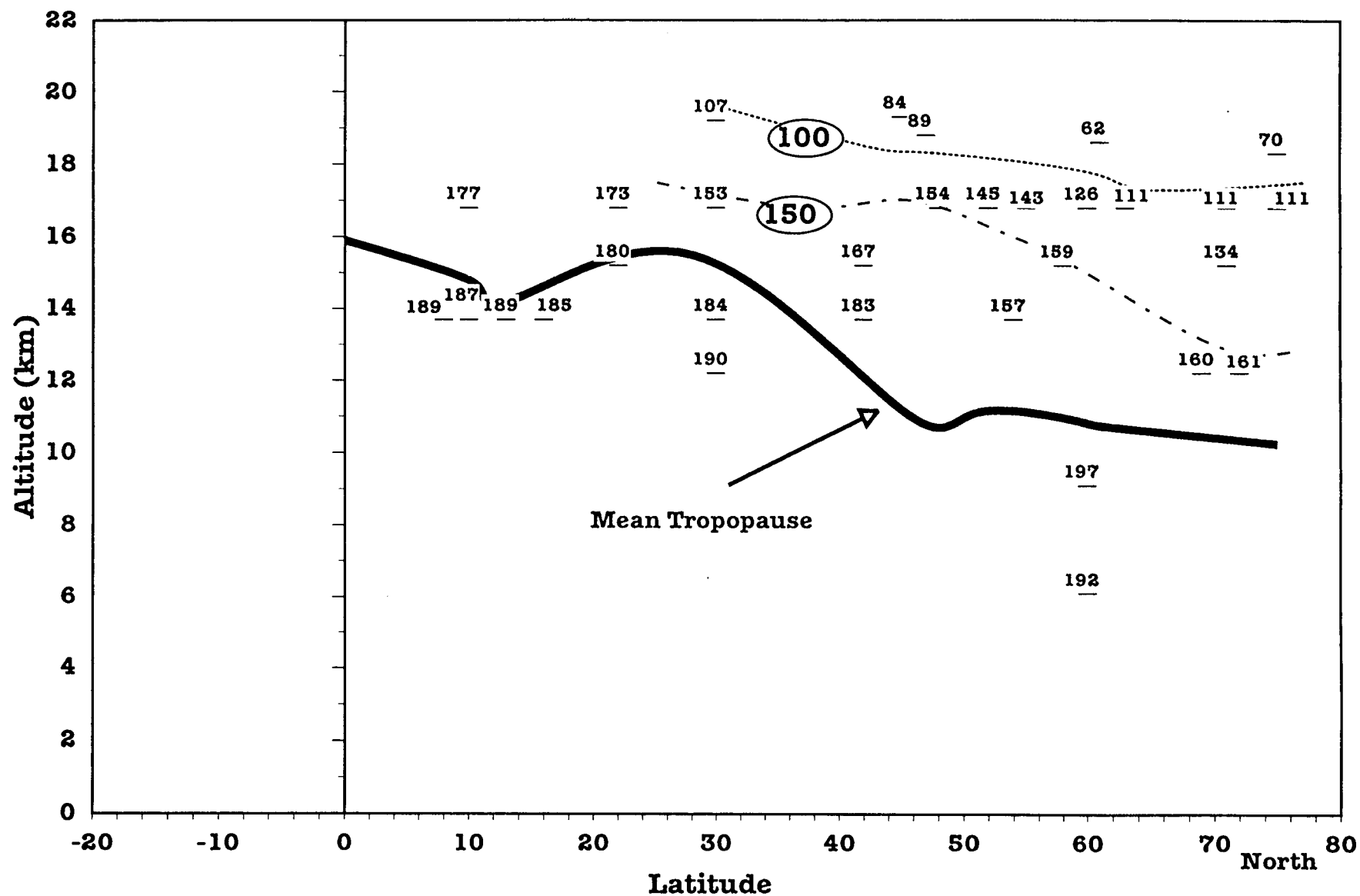


Figure 24. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for August 1982

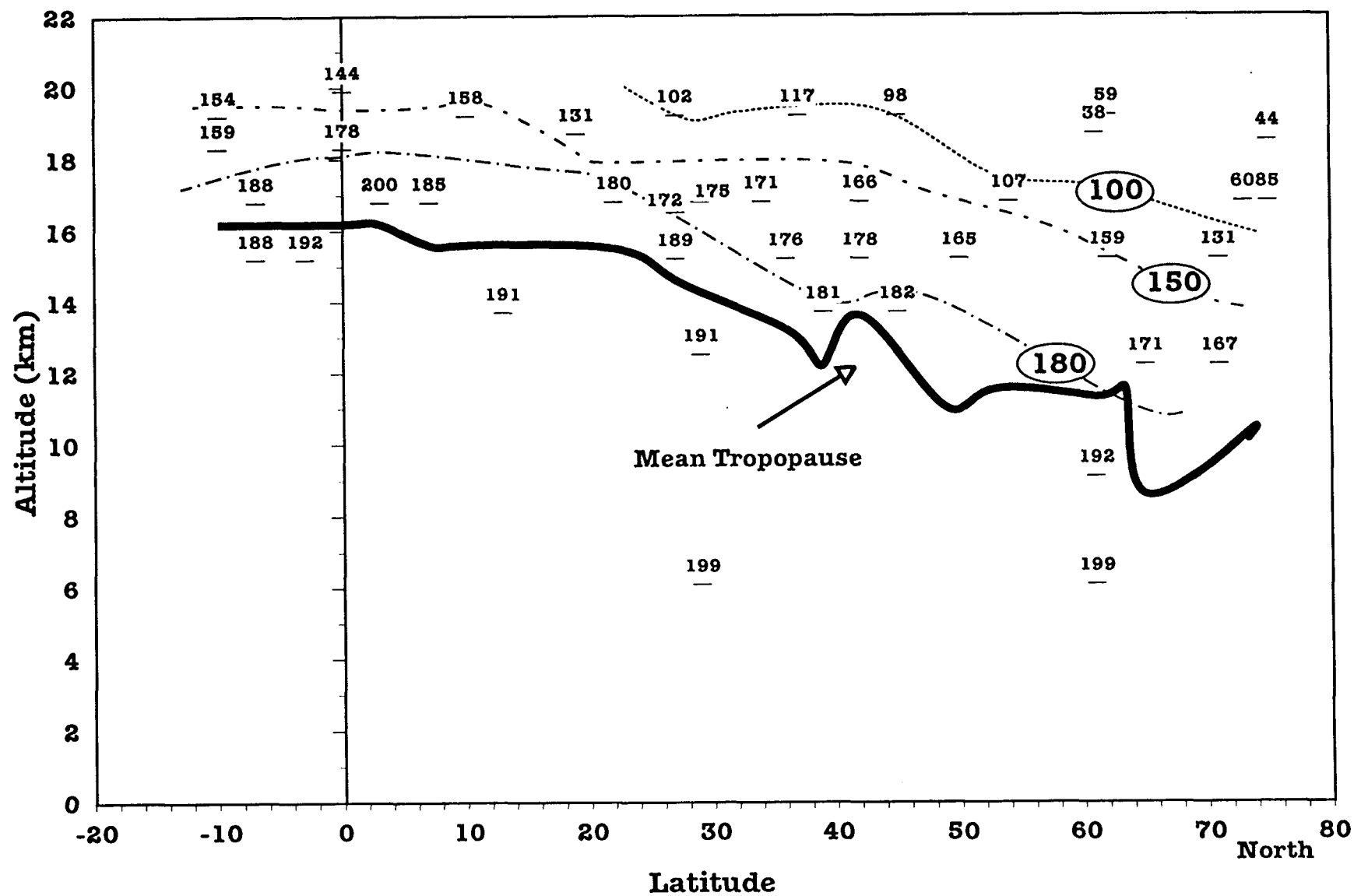


Figure 25. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for October 1982

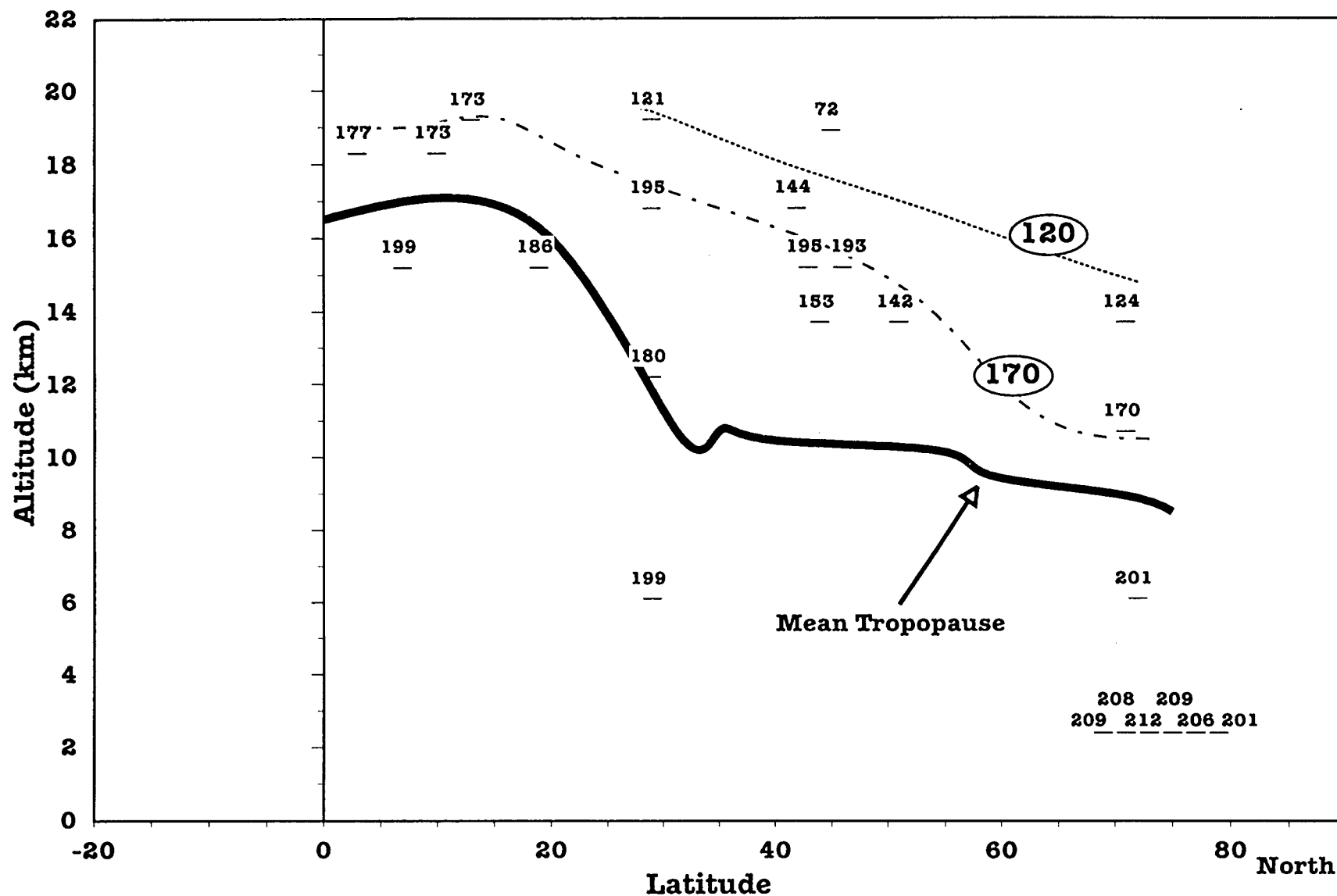


Figure 26. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for March 1983

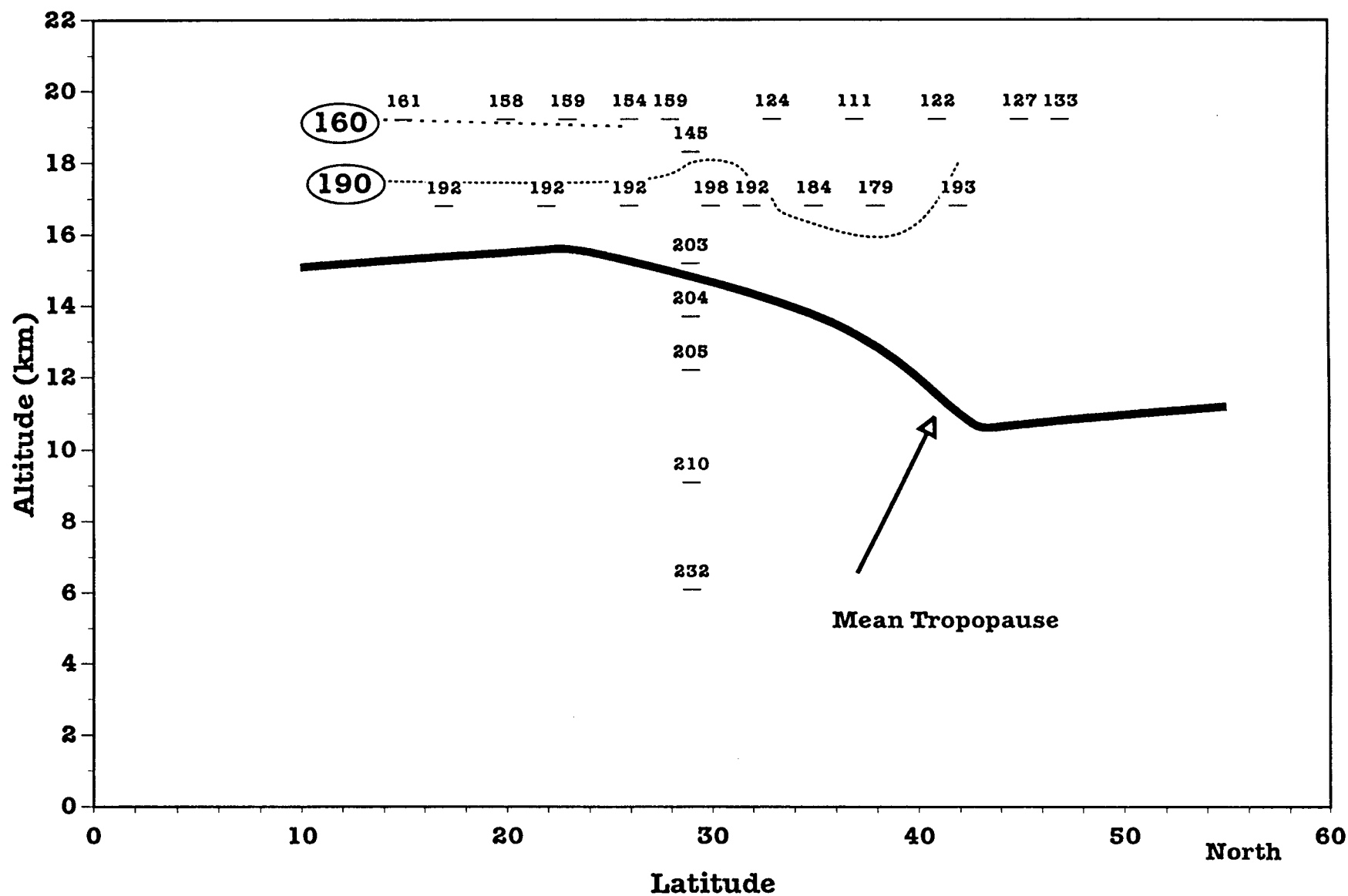


Figure 27. CCl_3F mixing ratio pL L^{-1} in the stratospheric air for September 1983