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NOAA Technical Memorandum ERL CMDL-2

ATMOSPHERIC METHANE DATA FOR THE PERIOD 1986-1988 FROM THE NOAA/CMDL GLOBAL COOPERATIVE FLASK SAMPLING NETWORK

Patricia M. Lang
L. Paul Steele
Russell C. Martin

Climate Monitoring and Diagnostics Laboratory
Boulder, Colorado
October 1990

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October 1990

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FOREWORD

This Technical Memorandum is the second in a series describing atmospheric methane measurements made through the cooperative flask sampling program operated by the Climate Monitoring and Diagnostics Laboratory (CMDL) of the National Oceanic and Atmospheric Administration (NOAA). The CMDL now incorporates the NOAA program formerly known as Geophysical Monitoring for Climatic Change (GMCC). The first memorandum of this series described methane data for the period 1983-1985 (see NOAA Technical Memorandum ERL CMDL-1, "Atmospheric methane data for the period 1983-1985 from the NOAA/ GMCC global cooperative flask sampling network", by P.M. Lang, L.P. Steele, R.C. Martin and K.A. Masarie, published in March 1990).

The monthly average methane concentrations tabulated in this memorandum may be obtained as an ASCII file on a DOS formatted 5.25 inch floppy disc by writing to:

Dr. Ed Dlugokencky
Carbon Cycle Group
NOAA/ERL/CMDL (R/E/CG1)
U.S. Department of Commerce
325 Broadway
Boulder, Colorado 80303
U.S.A.

The monthly average methane concentrations may also be obtained from:

Oak Ridge National Laboratory
Attention: Carbon Dioxide Information Analysis Center, Building 1000
P.O. Box 2008
Oak Ridge, Tennessee 37831-6335
U.S.A.

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Atmospheric Methane Data for the Period 1986 - 1988 from the NOAA/CMDL Global Cooperative Flask Sampling Network

Patricia M. Lang, L. Paul Steele, and Russell C. Martin

ABSTRACT. This memorandum builds on previous work (*Lang et al.*, 1990; *Steele et al.*, 1987) to extend by three years the record of atmospheric methane measurements made through the NOAA/CMDL cooperative flask sampling network. The format of the data presentations given here follows very closely that used by *Lang et al.* (1990). Details of the flask sampling methods and the analytical and calibration procedures are given. Results from individual flask samples are both tabulated and plotted. Monthly average methane concentrations at each site are also tabulated.

1. Introduction

The increase of atmospheric methane (CH_4) continues to be studied by a variety of techniques. A survey of the recent literature reveals that at Cape Point, South Africa, an in-situ gas chromatograph (GC) with flame ionization detection (FID) has been used to measure the variations in CH_4 concentrations since 1982 (*Brunke et al.*, 1990). Using a spectroscopic technique, *Wallace and Livingston* (1990) have documented an increase in the total column abundance of methane over Kitt Peak, Arizona, during 1979-1985. Also, GC/FID analysis of the CH_4 levels in air bubbles trapped in the Vostok ice core drilled in Antarctica has revealed CH_4 fluctuations that display a remarkable correlation with indicators of climate change (*Chapellaz et al.*, 1990).

This report is the second in a series and follows closely the form of the first (*Lang et al.*, 1990). Here we extend by 3 years the record of atmospheric methane measurements made at globally distributed sites in the NOAA/CMDL cooperative flask sampling network. The data from several thousand individual flask samples are tabulated and plotted. We also present tabulations of monthly average methane concentrations for each site. Relevant aspects of the sampling, analytical, and calibration procedures are included.

2. Improvements to the Program

The development and early years (1983-1985) of this measurement program have been described previously (*Lang et al.*, 1990; *Steele et al.*, 1987). During the 3-year period covered by this report (1986-1988) a number of improvements were introduced. These improvements have been principally in those aspects of the operation where gains in efficiency and productivity were desirable. The basic chromatographic technique and the calibration procedures have remained the same. A detailed technical description of these improvements is beyond the scope of this report, but we provide in the following paragraphs a general description of the nature of these changes.

The major improvements have been in the areas of data acquisition and automation of the flask analyses. The first of these changes was introduced on November 6, 1987, when the

Hewlett-Packard (HP) 3392A integrator was replaced by the more powerful HP 3393A model, and the HP 85-B computer was replaced by an HP model 310 workstation. A set of 24 test flask air samples, filled from a cylinder of calibrated air, was analyzed prior to and immediately after this hardware change. These analyses showed convincingly that, within the experimental precision, the methane concentrations obtained before and after were identical. The model 310 workstation was connected to a network of HP workstations and peripheral devices servicing the Carbon Cycle Group of NOAA/CMDL, and functioned as a discless node in that network. A computer program written in the BASIC language operated in the 310 workstation and performed such tasks as prompting the operator for input of flask information, calculating concentrations in real-time and displaying them on the screen, generating raw data files, and, at the end of each analysis session, updating the concentration files for each network site.

Safeguards were incorporated to protect the overall system against short-term degradation or failure of the main power and to minimize losses of data in the event of a system crash. To achieve the former, all of the electrical components in the analytical system were protected with an uninterruptible power system (Best Micro-Ferrups model M1000VA). For the latter an HP dual microfloppy disc drive (model 9122D) was interfaced to the computer, and after the analysis of every sample, the full chromatogram report and the relevant flask sampling information were written to a 3.5 inch floppy disc. As an added precaution this same information was stored in the memory of the 3393A integrator. Once a flask analysis session had been successfully completed, and all data had been transferred to a hard disc mass storage device connected to the network server, the safeguard files could be written over. For the safeguard file in the 3393A memory, the file from the previous session was usually deleted at the beginning of the next analysis session. The safeguard files on the floppy disc were written over only after the floppy disc had been filled to capacity. This provided enough of a cushion to ensure that the server's hard disc memory had been routinely backed up on 0.25 inch magnetic tape cartridges. Finally, once the 310 workstation was successfully booted up from the network server and the necessary program was loaded into the 310's memory, the flask analysis could proceed without any further interaction with or need of the network. Access to the network was then only required at the end of the analysis session.

While we were gaining experience with these initial improvements to the system, development of the next phase was taking place. This was a device called a carousel (it is circular in shape), that could hold up to eight flasks at a time. The purpose of the carousel was to supplant the role of the Hach-Carle model 2026 stream selection valve and to improve efficiency. The key components of the carousel were two multi-position valves fitted with multi-position electric actuators manufactured by the Valco Instruments Co. Inc. One of the valves was an 8-position model fitted with a 16-position actuator. The other valve was a 4-position model with a 4-position actuator. The common outlet of the 8-position valve fed into one of the inlet ports of the 4-position valve. The electric actuators indicated their position both visually, by an LED display, and electrically, by a 5-volt BCD output. The position of the actuators could also be controlled remotely through the 5-volt BCD input. The configuration of the two valves allowed us to alternate the analysis of flask air samples with the analysis of calibration samples. With suitable enhancements to the software of the HP 310 workstation, we created a system which could run unattended for approximately four hours, during which time eight flasks were analyzed, with two aliquots normally being analyzed from each flask. When the analysis of each set of flasks was complete, the system waited until the next set of flasks had been entered, after which the analysis would proceed. The analysis did not proceed blindly. The computer was programmed to evaluate the level of agreement between the concentrations obtained from the two aliquots normally analyzed

from each flask. If the difference between aliquots was within 10 parts per billion by volume (ppb) for the methane concentrations, then only two aliquots were analyzed, and the carousel switched to the next flask in sequence. If the difference was greater than 10 ppb for methane, then a third aliquot was analyzed. If two of the three aliquots agreed to within 10 ppb, then the carousel proceeded to the next flask. In very rare situations a fourth or even a fifth aliquot was analyzed before the required condition was met.

Another key element in this scheme was a Tylan mass flow meter which allowed us to regulate the total volume of air sample that passed through the sample loop of the gas chromatograph. With appropriate interfacing of the mass flow meter to the computer, we were also able to recognize those flasks which were not pressurized adequately. Thus some flasks had only one aliquot analyzed before the computer decided to progress to the next flask in the sequence. In rarer situations some flasks were not analyzed at all because the criteria for flow rate and volume were not met. After exhaustive testing, the carousel and the associated software were introduced for routine flask analysis on August 26, 1988. A significant part of the testing procedures was the analysis of 36 flask samples of air using both the existing analysis system and the new fully automated system with the carousel. We concluded that the new automated system had not introduced any biases or artifacts in the analysis of methane concentrations.

Turning to another aspect of the flask analysis system, we reiterate that the chromatographic separation was accomplished with a Hach-Carle model 04270-A GC, configured without a methanizer. The carbon dioxide component of the air samples was backflushed from the silica gel column instead of passing through to the detector. This modification had the advantage of allowing shorter analysis times for methane. However, without the methanizer, the carbon monoxide component could not be quantified with the FID, even though it was separated on the molecular sieve 5A column. We solved this problem by adding a Trace Analytical Reduction Gas Detector (model RGD2) to the chromatograph. This is a very sensitive detector for carbon monoxide, that is based upon the reaction of carbon monoxide with heated mercuric oxide to produce mercury and subsequent detection of mercury atoms by ultraviolet absorption. Use of the 4-port, 2-position switching valve in the Hach-Carle GC allowed us to direct the effluent of the molecular sieve 5A column to the FID when the methane was eluting, and to the RGD2 when the carbon monoxide was eluting. This modification to the gas chromatographic system was introduced on July 20, 1986.

3. Details of Flask Sampling

The sampling sites used during 1986-1988 are given in Table 1 and their global distribution is illustrated in Figure 1. Some changes were introduced in this period, but the network coverage is still nearly the same as that described in *Lang et al.* (1990). In November 1987 we began sampling at Ragged Point, Barbados (RPB) in cooperation with the Global Atmospheric Gases Experiment (GAGE) which operates an in-situ gas chromatograph for the measurement of atmospheric trace gases at the site. In cooperation with the Japanese Antarctic Research Program we have analyzed air samples collected at Syowa Station (SYO) in Antarctica during 1986 and 1988. Two sites for which we reported data in our previous memorandum (*Lang et al.*, 1990) do not appear here. Sampling at Kaitorete Spit, New Zealand, and Kitt Peak, Arizona, was discontinued during 1985.

As in previous years, most of the flasks used in the network during 1986-1988 were 0.5-L glass flasks fitted with two solid-plug, ground glass, greased stopcocks. Other types of flasks have also been used, and descriptions of these can be found in *Lang et al.* (1990) and in

Table 1

Flask Sampling Sites Used During 1986 - 1988

Site Code	Site Location	Country	LST to GMT*	Latitude	Longitude	Elevation (m)+
ALT	Alert, N.W.T.	Canada	+ 9	82°27' N	62°31' W	6
AMS	Amsterdam Island	France	- 5	37°57' S	77°32' E	150
ASC	Ascension Island	U.K.	+ 1	07°55' S	14°25' W	54
AVI	St. Croix, Virgin Islands	U.S. Territory	+ 4	17°45' N	64°45' W	3
AZR	Azores (Terceira Island)	Portugal	+ 1	38°45' N	27°05' W	30
BRW	Point Barrow, Alaska	U.S.A.	+ 9	71°19' N	156°36' W	11
CBA	Cold Bay, Alaska	U.S.A.	+ 9	55°12' N	162°43' W	25
CGO	Cape Grim, Tasmania	Australia	-10	40°41' S	144°44' E	94
CHR	Christmas Island	Kiribati	+10	02°00' N	157°19' W	3
CMO	Cape Meares, Oregon	U.S.A.	+ 8	45°00' N	124°00' W	30
GMI	Guam (Mariana Islands)	U.S. Territory	-10	13°26' N	144°47' E	2
HBA	Halley Bay	Antarctica	+ 2	75°40' S	25°30' W	10
KEY	Key Biscayne, Florida	U.S.A.	+ 5	24°40' N	80°12' W	3
KUM	Cape Kumukahi, Hawaii	U.S.A.	+10	19°31' N	54°49' W	3
MBC	Mould Bay, N.W.T.	Canada	+10	76°14' N	119°20' W	15
MCM	McMurdo Station	Antarctica	-12	77°50' S	166°36' E	11
MID	Sand Island, Midway	U.S. Territory	+11	28°13' N	177°22' W	4
MLO	Mauna Loa, Hawaii	U.S.A.	+10	19°32' N	155°35' W	3397
NWR	Niwot Ridge, Colorado	U.S.A.	+ 7	40°03' N	105°38' W	3749
OPW	Olympic Peninsula, Washington	U.S.A.	+ 8	48°15' N	124°45' W	2 & 488
RPB	Ragged Point	Barbados	+ 4	13°10' N	59°26' W	3
PSA	Palmer Station (Anvers Island)	Antarctica	+ 3	64°55' S	64°00' W	10
SEY	Seychelles (Mahe Island)	Seychelles	- 4	04°40' S	55°10' E	3
SHM	Shemya Island, Alaska	U.S.A.	+10	52°43' N	174°06' E	40
SIO	Scripps Institution, California	U.S.A.	+ 8	32°50' N	117°16' W	14
SMO	Matatula Point, Samoa	U.S. Territory	+11	14°15' S	170°34' W	42
SPO	Amundsen Scott (South Pole)	Antarctica	-12	89°59' S	24°48' W	2810
STM	Ocean Station "M"	North Atlantic	0	66°00' N	02°00' E	4.5 - 9
SYO	Syowa	Antarctica	- 3	69°00' S	39°35' E	11

* The numbers in this column give the conversion (in hours) between Local Standard Time (LST) and Greenwich Mean Time (GMT), eg. at ALT to convert from LST to GMT, add 9 hours to LST.

\+ Elevation above mean sea level

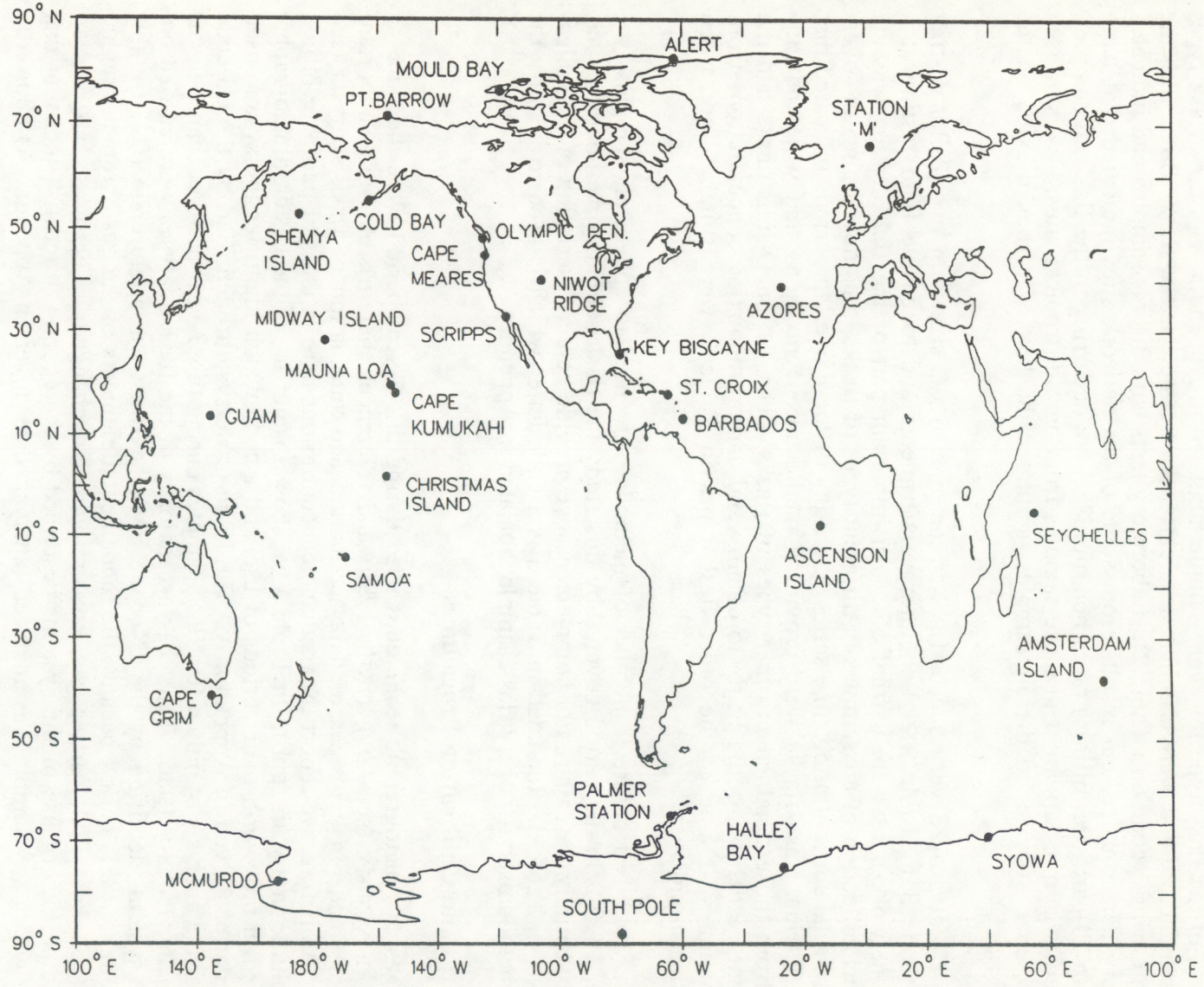


Figure 1. Map showing the location of those flask sampling sites used during 1986 - 1988 for the collection of air samples which were analyzed for atmospheric methane concentration.

Steele et al. (1987). A notable feature of this 3-year period was the concerted effort to test and introduce a variety of other flask types to the network. All types of flasks used during 1986-1988 are described in Table 2, where each type is coded with a number, allowing the identification of the flask type for every sample tabulated in Appendix A. Some flask types proved unsatisfactory and were eliminated quickly. An example is the flasks fitted with the green viton O-rings (code 6 in Table 2). Laboratory tests with dry air samples had indicated a satisfactory performance, but results from some of the network sites indicated that large losses (up to 20 parts per million) of carbon dioxide were occurring in the flask air samples. This problem was most apparent in those samples from humid, tropical sites. We surmised that the presence of water in the air samples facilitated the loss of carbon dioxide on the O-ring material.

A flask type that proved very successful was the glass 0.5-L size with two Teflon O-ring stopcocks (code 3 in Table 2). Laboratory experiments and extensive field testing at a number of network sites were carried out. An important part of the field testing was the simultaneous collection of air samples in different types of flasks, thus developing an "overlap" period in the concentration time series. Scrutiny of these overlap periods indicated that the Teflon O-ring glass flasks were providing methane concentrations that were indistinguishable from those obtained in other types of flasks. The Teflon O-ring flasks had the added advantage that we could begin to obtain valid carbon monoxide concentrations from the flask samples. None of the other flask types in Table 2 were suitable for carbon monoxide measurements.

As we have described before, a number of methods were used to collect air samples (see *Lang et al.*, 1990). In the period covered by this study the flask sampling methodology has remained essentially the same. For completeness we provide here a description of the collection methods in Table 3. Included in Table 3 is a code letter which is used to identify the collection method used for every flask sample tabulated in Appendix A.

4. Analytical and Calibration Procedures

The basic gas chromatographic techniques used during this 3-year period were the same as those used previously (see *Lang et al.*, 1990 and references therein), but some important changes were made in the areas of data acquisition and automation of flask analysis (see Section 2). As before, we report the methane concentrations here in units of parts per billion (10^9) by volume in dry air (ppb). In Table 4 we show a summary of the gas chromatographic systems used in this work, their periods of use, and a code which identifies the system used for the tabulations given in Appendix A. The Hach-Carle system identified by the C3 code was used for the analysis of only a few flask samples during this 3-year period because it was replaced during January 1986. Thus the vast majority of the flask analyses were carried out on the GC system identified by the C4 code. We have used a single code (C4) for this system throughout this period because the fundamental elements of the gas chromatographic technique (columns, FID, carrier gas, etc.) remained unchanged. There was no overlap between the periods of use of the systems described by the codes C3 and C4, meaning that the date on which any sample was analyzed (analysis date, given in Appendix A) allowed a ready determination of the system used for each analysis.

We have continued the procedure of analyzing at least two aliquots from each flask whenever the pressure in the flask allowed this to be done. Where the difference in concentration between the first and second aliquot is available, it is included in the tabulations of Appendix A. In Table 5 we summarize the statistics for these first-minus-second concentration values

Table 2.-- Description of Flask Types used in the Sampling Network

Code Used For Flask Type*	Flask Material	Flask Size+	Flask Shape	Number of Stopcocks	Stopcock Type
1	Pyrex glass	0.5 L	Cylindrical	2	Ground glass, solid glass plug, 3 mm bore, lubricated with Apiezon N grease
2	Pyrex glass	0.5 L	Cylindrical	2	High vacuum, O-ring type, glass piston, 10 mm bore, butyl O-ring (from J. Young Scientific Glassware)
3	Pyrex glass	0.5 L	Cylindrical	2	High vacuum, O-ring type, glass piston, 10 mm bore, Teflon O-ring (from J. Young Scientific Glassware)
5	Pyrex glass	3 L	Cylindrical	1	High vacuum, O-ring type, glass piston, 10 mm bore, black butyl O-ring (from J. Young Scientific Glassware)
6	Pyrex glass	0.5 L	Cylindrical	2	High vacuum, O-ring type, glass piston, 10 mm bore, green viton O-ring (from J. Young Scientific Glassware)
7	Pyrex glass	0.5 L	Cylindrical	2	High vacuum, O-ring type, glass piston, 10 mm bore, black viton O-ring (from J. Young Scientific Glassware)

*Code is used for tabulations given in Appendix A.
+Flask sizes are approximate.

Table 3.--Description of Sample Collection Methods Used in the Sampling Network

Code Used for Collection Method*	Description of Collection Method
P	Portable, battery-powered suitcase sampler. Two flasks normally connected in series, flushed with air, and then pressurized to 1.25-1.5 times ambient atmospheric pressure (see *Komhyr et al.*, 1985).
T	Filling of evacuated 3-L glass flask by opening the single O-ring stopcock (see *Steele et al.*, 1987, for more details).
S	Filling of 0.5-L glass flasks (in pairs) at the NOAA/CMDL observatory sites. Flasks are filled and pressurized by diverting air from the continuous in-situ CO_2 analysis system (see *Komhyr and Harris*, 1977; *Komhyr*, 1983; *Komhyr et al.*, 1989).
N	Filling and pressurizing of 0.5-L glass flasks (in pairs) by a pump different from that supplied by NOAA/CMDL. In most cases (eg. at NWR and CGO) the pump is a Metal Bellows pump. In addition, the flasks filled by this method at the Cape Grim Baseline Air Pollution Station (site code CGO) are filled with air that has been dried chemically (see *Steele et al.*, 1987).

*Code is used for tabulations given in Appendix A.

for each of the sampling sites. By combining the results from all of the sampling sites we find that at least two aliquots were analyzed from a total of 3309 flasks, yielding a mean first-minus-second value of -0.7 ppb, and a standard deviation of 5.1 ppb. These results indicate an overall level of precision for the analyses over this 3-year period of slightly better than 0.3%, a value almost identical to that obtained in the first three years of this program (see *Lang et al.*, 1990). We do not estimate separately the precision levels of the two GC systems (C3 and C4) because only 10 flask samples were analyzed on the C3 system during this period. With regard to this average precision level of approximately 0.3%, it is worth noting that it applies to a single determination of a methane concentration. Since we almost always analyze two aliquots from each flask, and average the two values, the estimated uncertainty of the average value is better than 0.3% (approximately 0.21%). This idea underlies our strategy of analyzing a third aliquot from those flasks where the results from the first two aliquots do not agree to within 10 ppb. In those cases where a third aliquot was analyzed from a flask, all three concentrations were averaged, thus tending to achieve a consistent level of precision throughout the entire data set of flask average concentrations.

In Table 6 we provide, for each site, information which summarizes the delay between sample collection and sample analysis. Since we have shown that the length of the delay between collection and analysis does not influence the methane concentrations of the air samples stored in the flasks (*Steele et al.*, 1987), the results of Table 6 are presented primarily as an indicator of the network logistics. A comparison of the results in Table 6 with those for the previous 3-year period (see Table 6 in *Lang et al.*, 1990) shows that for many of the sites, the average turnaround times have remained remarkably stable.

Table 4.--Description of Gas Chromatographic Systems Used for Methane Analysis

Code Used for GC System*	Period of Use	Basic Configuration of GC System
C3	12 Aug 85-23 Jan 86	Hach-Carle series 400, model 04270-A GC, Hewlett-Packard (HP) 3392A integrator, Hach-Carle model 2026 8-port stream selection valve, model HP 85-B computer.
C4	24 Jan 86-10 Jul 86	Hach-Carle series 400 GC, basic model 04270-A, but configured without a methanizer, and to backflush CO_2 from the silica gel column. HP model 3392A integrator, Hach-Carle model 2026 8-port stream selection valve, HP model 85-B computer.
C4	20 Jul 86-05 Nov 87	Same as previous configuration of C4, except that a Trace Analytical Reduction Gas Detector (model RGD2) was added to allow quantification of the carbon monoxide peak which was separated on the molecular sieve 5A column. See text, section 2. On September 8, 1987, the Hach-Carle stream selection valve was replaced by a Valco 4-port valve mounted on a Valco 8-position electric actuator.
C4	06 Nov 87-18 Aug 88	Same as previous configuration of C4, except that the data acquisition capability was upgraded. The HP3392A integrator was replaced by the HP3393A model; and the HP 85-B computer was replaced by a networked HP model 310 workstation. See text, section 2.
C4	26 Aug 88-06 Sep 89	Same as previous configuration of C4, except that the Valco 4-port stream selection valve was replaced by a fully automated, computer controlled carousel. See text, section 2.

*Code is used for tabulations given in Appendix A.

It is important to point out that the tabulations of Appendix A include only those samples which were properly collected and analyzed. This follows the procedure adopted in our previous report (*Lang et al.*, 1990). We have identified numerous causes of unacceptable flask samples, and these have been itemized previously (*Lang et al.*, 1990). In Table 7 we

Table 5.--Summary Statistics for the Precision of Methane Concentrations

Site Code	Number of Flasks with at least Two Aliquots	Mean Value of First-Second Aliquot Concentration (ppb)	Sample Standard Deviation of Mean (ppb)
ALT	157	0.0	5.2
AMS	58	.7	4.0
ASC	141	-.8	5.1
AVI	142	.8	5.1
AZR	52	-.7	5.8
BRW	137	-.1	4.7
CBA	125	0.0	5.7
CGO	180	-.1	5.0
CHR	121	-.7	5.5
CMO	132	.4	4.6
GMI	108	-.4	5.4
HBA	37	.1	3.3
KEY	79	-1.3	7.2
KUM	209	.2	4.6
MBC	143	-.1	5.4
MCM	34	0.0	5.2
MID	151	.5	5.0
MLO	151	-.2	5.1
NWR	145	.2	4.4
OPW	63	-.7	5.1
PSA	69	-.6	4.8
RPB	50	-.7	6.2
SEY	49	.3	4.3
SHM	79	-.6	5.2
SIO	5	-1.3	7.7
SMO	330	-.2	5.2
SPO	135	.4	5.4
STM	206	.1	5.4
SYO	21	-.4	3.4

have compiled summary statistics on the incidence of unacceptable flask samples at each site. At 14 of the sites the percentage of unacceptable flasks is less than 10%. Combination of these results from all of the sites reveals that, during 1986-1988, a methane analysis was attempted on a total of 3994 flasks, with 595 (14.9%) of these being classified as unacceptable. This percentage of unacceptable flasks is almost identical to the figure of 14.2% which we found for the previous 3-year period of flask sampling (*Lang et al.*, 1990). Further examination of Table 7 reveals that a relatively small number of sites contributes a disproportionate share to the total number of unacceptable flasks. Thus of the 595 unacceptable flasks, 243 (40.8%) came from only three sites (AMS, PSA, and SMO). There is a lesson in this result. For the flasks collected at AMS and PSA there are very long durations between sample collection and sample analysis (see Table 6). Thus if a problem develops in the sample collection procedure, many samples may be collected before the analysis reveals the existence of the problem and remedial action can be taken.

Table 6.--Summary Statistics for the Duration Between Flask Sampling and Flask Analysis

Site Code	Mean Duration (Days)	Median Duration (Days)	Minimum and Maximum Duration (Days)
ALT	44	42	20 - 80
AMS	289	299	114 - 432
ASC	17	13	6 - 64
AVI	14	11	2 - 58
AZR	22	18	4 - 84
BRW	13	11	1 - 57
CBA	12	9	3 - 53
CGO	42	36	14 - 116
CHR	34	29	7 - 107
CMO	13	9	3 - 52
GMI	20	16	7 - 73
HBA	449	461	238 - 649
KEY	16	14	3 - 63
KUM	12	10	2 - 37
MBC	48	44	19 - 158
MCM	113	99	38 - 227
MID	21	20	5 - 70
MLO	11	10	3 - 55
NWR	12	8	1 - 58
OPW	55	19	2 - 288
PSA	206	178	73 - 517
RPB	20	18	9 - 51
SEY	20	15	7 - 60
SHM	27	21	3 - 112
SIO	18	18	18 - 18
SMO	14	12	3 - 93
SPO	161	130	8 - 433
STM	36	29	7 - 167
SYO	294	272	152 - 477

For the 3-year period covered by this report only two tanks of calibration gas have been used. The first of these (designated as O-259) was also used for part of the previous 3-year period and has been described by *Lang et al.* (1990). The second calibration tank (designated as CC1406) was an aluminum, high-pressure cylinder fitted with a packless, brass, diaphragm valve. It was purchased from Airco Industrial Gases (Phoenix, Arizona) who treated the internal surface of the cylinder with their Spectra-Seal passivating process. We then filled this cylinder with dry, natural air at a site near Niwot Ridge, Colorado, using a RIX compressor (model SA-3). The air was dried by passing it through two columns (in series) of the drying agent Aquasorb (active ingredient phosphorus pentoxide) located on the high pressure side of the compressor. This achieved water levels in the collected air which were lower than the detection limit (one part per million) of the instrument used for the water determination (Meeco Aquamatic). Great care was taken during the filling process to prevent any particles

Table 7.--Flask Sampling Statistics During 1986 - 1988

Site Code	Total Number of Flasks*	Number of Unacceptable Flasks	Percent of Unacceptable Flasks
ALT	167	4	2
AMS	154	87	56
ASC	162	16	10
AVI	162	15	9
AZR	60	7	12
BRW	159	6	4
CBA	146	13	9
CGO	224	40	18
CHR	125	1	1
CMO	142	5	4
GMI	114	4	4
HBA	68	30	44
KEY	86	3	3
KUM	262	47	18
MBC	157	10	6
MCM	44	9	20
MID	169	13	8
MLO	171	4	2
NWR	177	23	13
OPW	66	3	5
PSA	169	96	57
RPB	60	7	12
SEY	87	34	39
SHM	105	20	19
SIO	6	0	0
SMO	337	60	18
SPO	158	16	10
STM	221	8	4
SYO	36	14	39

*Methane analysis was attempted.

of the Aquasorb drying agent from entering the cylinder. Generous filters made up of silanized glass wool were used for this purpose. Once the cylinder had been filled, it was calibrated intensively against the other two cylinders of calibration gas used for this program (O-245 and O-259). This intercalibration continued even after CC1406 was introduced as the calibration standard for flask analysis on March 25, 1987. These intercalibration experiments indicated that there were no relative changes in the methane concentrations of these calibration gases. Details of the two calibration gases used over the 3-year period of this report are given in Table 8.

Table 8.--Calibration Standards Used for Methane Flask Analysis

Cylinder Number	CH_4 Concentration (ppb)	Starting Analysis Date	Ending Analysis Date
O-259	1676.0	11 JUN 85	24 MAR 87
CC1406	1701.7	25 MAR 87	07 NOV 89

A glance at Table 8 indicates that the periods of use of the two calibration gases did not overlap. Thus the particular calibration gas that was used for the analysis of any individual flask sample can be readily deduced by examination of the entry in the "Analysis Date" column in the tabulations of Appendix A. There is only one exception to this rule, and it relates to some of the SPO flask samples. For SPO flasks with sample dates within the period February 22, 1988-October 15, 1988 (corresponding to analysis dates of December 6, 1988-December 9, 1988), the calibration tank used was O-259, not CC1406. We did this as a deliberate experiment for the SPO flasks because the bulk of the samples for any one year generally arrived in Boulder from the South Pole as a single shipment. It is then a straightforward matter to analyze SPO flasks exclusively for 2-3 days, during which time the calibration tank could be changed. This provided us with a time series record at one of the network sites where the underlying sequence of calibration tanks used was markedly different from that used for the other sites.

Acknowledgments

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Appendix A
Tabulation of Methane Concentrations from Individual Flask Samples

The format of the tabulations in this appendix is the same as that used for Appendix A in *Lang et al.* (1990). For the convenience of the reader we repeat the explanations of the entries in the tabulations.

In this appendix we tabulate the relevant details of the sampling and analysis of individual flask samples. The results are presented separately for each site. The sites are arranged alphabetically by the 3-letter site code (see Table 1 for a full listing). The column headings are largely self-explanatory, but for clarity we provide the following additional information.

For each site the data are ordered chronologically by sample date and, if necessary, sample time. For internal consistency all sample dates and times are given in Greenwich Mean Time (GMT). The convention we adopt for specifying dates is "day-month-year" with the month given by the first three letters of the month's name. This avoids any possibility of ambiguity. For the year we specify only the last two digits eg. 1987 is given only as 87. The sample time is given to the nearest minute in the 24-hour clock convention. On those occasions when a sample date was provided by the sample taker, but the sample time was not, a default value of 9999 was entered for the sample time. In general, the filling of the flasks was not instantaneous, and the sample taker usually provided the beginning and ending time for the sampling period. At most, this sampling period was a few minutes. The convention we adopt for these tabulations is that the sample time listed is the beginning of the sampling period.

For most of the flask samples, two separate aliquots are analyzed, and a methane concentration is determined for each aliquot. The number of separate aliquots analyzed is given in the fifth column. The mean methane concentration that we report for each flask sample (third column) is the arithmetic mean of the values obtained for all aliquots. An indication of the analytical precision is given in the fourth column, where we report, wherever possible, the difference in methane concentration between the first and second aliquots. This concentration difference is always calculated as first minus second aliquot. The mean methane concentration is given to the nearest 0.1 ppb to retain enough significant digits for any further processing of these data.

The flask I.D. given in column 6 is the identifying number assigned to the flask. It is included here principally to aid in the future merging of these methane data with the carbon dioxide concentrations measured in these same flasks by a non-dispersive infrared technique. The flask type (column 7) specifies the particular type of flask used for each air sample. It is given by a code number, as described in Table 2.

The collection method (column 8) refers to the method used to fill the flask with an air sample. It is given by a code letter described in Table 3.

Since two different gas chromatographs have been used during the course of this work, we include a specification of the gas chromatograph used for the analysis of each sample. This is given by a code in column 9. A full description of the meaning of the code is given in Table 4.

The analysis date (column 10) is the date that the flask sample was analyzed for its methane concentration. We use the same convention as for the sample date, except that the analysis

date is based on local time in Boulder, Colorado rather than GMT. In some instances a flask sample was analyzed on more than one occasion. When this occurred the results of each analysis are included separately in the tabulation. An example of this can be seen for the AVI site, when the flask with the sample date of 02 MAY 87 was analyzed on both 13 MAY 87 and 01 JUN 87.

Finally, the column headed as "flag" (column 11) is used to identify those flask samples which we believe to be "non-background". Such non-background samples are identified with a plus (+) symbol in this column. For most sites, very few samples are identified as non-background. One of the most common criteria for considering a sample to be non-background is that the wind direction is outside some specified sector at the time of sampling.

As a final note, these tabulations do not include methane data that were judged to be unacceptable. For example, any flask sample that was not collected according to specified guidelines was classified as unacceptable. The failure of sample takers to follow specified guidelines when collecting samples accounted for a large majority of unacceptable samples. In most cases the information provided by the sample takers was used as the basis for deciding whether or not specified guidelines were followed.

Occasionally a flask sample was collected correctly, but during analysis for methane one of the individual aliquots was classified as unacceptable because of an unscheduled interruption of the analysis cycle. An example of such an interruption was the occasional loss of communication between the 3392A integrator and the 85-B computer. In such a case the aliquots that were unaffected by the interruption were retained in the tabulation, but the affected ones were not.

Alert, Canada (ALT)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
06 JAN 86	1926	1744.7	1.6	2	900-83	1	P	C4	13 FEB 86	
14 JAN 86	1940	1775.9	0.0	2	910-83	1	P	C4	12 FEB 86	
20 JAN 86	1917	1751.9	1.3	2	846-83	1	P	C4	13 MAR 86	
27 JAN 86	1912	1761.8	-2.4	2	866-83	1	P	C4	11 MAR 86	
10 FEB 86	2035	1761.5	-.9	2	840-82	1	P	C4	18 APR 86	
17 FEB 86	1940	1744.5	1.6	2	196-85	1	P	C4	18 APR 86	
24 FEB 86	2014	1735.2	-1.1	2	244-83	1	P	C4	22 APR 86	
03 MAR 86	1948	1789.5	-.3	2	296-82	1	P	C4	22 APR 86	
17 MAR 86	1934	1781.0	6.2	2	1498-82	1	P	C4	01 MAY 86	
25 MAR 86	1951	1764.7	-2.0	2	780-83	1	P	C4	01 MAY 86	
31 MAR 86	2010	1744.2	-1.7	2	252-85	1	P	C4	10 JUN 86	
04 APR 86	0001	1741.6	-2.9	2	2003-86	5	T	C4	31 MAY 86	
05 APR 86	0000	1741.8	12.2	4	2007-86	5	T	C4	30 MAY 86	
05 APR 86	0002	1742.7	16.9	4	2008-86	5	T	C4	30 MAY 86	
05 APR 86	1204	1743.4	1.3	2	2010-86	5	T	C4	31 MAY 86	
06 APR 86	0004	1753.9	-4.4	2	2012-86	5	T	C4	31 MAY 86	
06 APR 86	1201	1742.7	-2.9	2	2013-86	5	T	C4	31 MAY 86	
07 APR 86	2120	1762.0	-3.9	2	790-83	1	P	C4	10 JUN 86	
09 APR 86	1201	1758.0	1.4	2	2025-86	5	T	C4	31 MAY 86	
10 APR 86	0003	1763.1	-.2	2	2028-86	5	T	C4	31 MAY 86	
14 APR 86	2030	1759.5	3.7	2	51-85	1	P	C4	10 JUN 86	
15 APR 86	0000	1753.1	.8	2	2056-86	5	T	C4	01 JUN 86	
16 APR 86	1201	1768.8	-2.0	2	2062-86	5	T	C4	01 JUN 86	
18 APR 86	1202	1807.5		1	2070-86	5	T	C4	01 JUN 86	+
19 APR 86	0004	1750.5	1.5	2	2072-86	5	T	C4	01 JUN 86	
19 APR 86	1202	1751.5	-2.0	2	2074-86	5	T	C4	01 JUN 86	
21 APR 86	1235	1753.7	.6	2	2078-86	5	T	C4	01 JUN 86	
21 APR 86	1649	1750.8	-4.0	2	548-83	1	P	C4	10 JUN 86	
21 APR 86	1852	1754.8	2.1	2	170-85	1	P	C4	10 JUN 86	
28 APR 86	1909	1755.3	-2.3	2	1734-82	1	P	C4	10 JUN 86	
05 MAY 86	1906	1756.7	2.7	2	906-83	1	P	C4	10 JUN 86	
12 MAY 86	2157	1748.1	0.0	2	1192-82	1	P	C4	10 JUN 86	
19 MAY 86	1943	1737.0	-.2	2	892-83	1	P	C4	30 JUL 86	
26 MAY 86	1948	1734.0	-2.9	2	522-83	1	P	C4	30 JUL 86	
09 JUN 86	2000	1740.4	-1.5	2	760-83	1	P	C4	05 AUG 86	
16 JUN 86	2016	1711.8	-.7	2	922-83	1	P	C4	04 AUG 86	
23 JUN 86	1900	1716.6	-2.6	2	1526-82	1	P	C4	04 AUG 86	
30 JUN 86	1918	1710.0	-2.6	2	8-83	1	P	C4	19 SEP 86	
07 JUL 86	1942	1722.6	.7	2	1410-82	1	P	C4	19 SEP 86	
21 JUL 86	1905	1718.9		1	872-83	1	P	C4	19 SEP 86	
28 JUL 86	1948	1710.9	4.3	2	1650-82	1	P	C4	11 SEP 86	
04 AUG 86	1956	1703.2	-6.6	2	976-83	1	P	C4	11 SEP 86	
11 AUG 86	2020	1708.4	-4.7	2	12-85	1	P	C4	30 SEP 86	
18 AUG 86	1903	1713.6	0.0	2	1498-82	1	P	C4	25 SEP 86	
25 AUG 86	2000	1748.9	-2.2	2	560-85	1	P	C4	08 OCT 86	
08 SEP 86	2258	1715.7	-8.0	2	20-85	1	P	C4	20 OCT 86	
15 SEP 86	2055	1728.9	1.3	2	756-83	1	P	C4	20 OCT 86	
20 OCT 86	1917	1749.8	5.6	2	188-83	1	P	C4	10 DEC 86	
27 OCT 86	2123	1782.8	4.5	2	550-85	1	P	C4	09 DEC 86	
03 NOV 86	2058	1768.1	-6.6	2	98-85	1	P	C4	09 DEC 86	
10 NOV 86	2103	1750.3	1.9	2	674-83	1	P	C4	10 DEC 86	
17 NOV 86	2112	1740.9	.3	2	1006-82	1	P	C4	15 JAN 87	
24 NOV 86	2049	1750.0	1.6	2	196-83	1	P	C4	15 JAN 87	
01 DEC 86	2144	1744.8	-7.4	2	34-85	1	P	C4	15 JAN 87	
08 DEC 86	1842	1734.1	-3.8	2	778-83	1	P	C4	15 JAN 87	
15 DEC 86	1751	1734.9	4.8	2	304-83	1	P	C4	22 JAN 87	
22 DEC 86	1754	1737.2	5.1	2	414-83	1	P	C4	22 JAN 87	
29 DEC 86	1852	1736.7	-3.5	2	60-85	1	P	C4	03 FEB 87	
06 JAN 87	1813	1752.8	-2.2	2	302-83	1	P	C4	03 FEB 87	
13 JAN 87	1822	1771.2	-3.4	2	178-85	1	P	C4	24 FEB 87	
19 JAN 87	2131	1752.9	1.6	2	192-85	1	P	C4	24 FEB 87	
26 JAN 87	1817	1741.1	-3.3	2	144-85	1	P	C4	04 MAR 87	
02 FEB 87	1749	1757.0	0.0	2	424-85	1	P	C4	04 MAR 87	
09 FEB 87	1804	1757.5	-1.1	2	760-83	1	P	C4	24 MAR 87	

Alert, Canada (ALT)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
16 FEB 87	1806	1755.2	8.7	2	1186-82	1	P	C4	24 MAR 87	
23 FEB 87	1754	1759.9	1.0	2	624-85	1	P	C4	22 APR 87	
02 MAR 87	1800	1743.9	5.2	2	708-83	1	P	C4	22 APR 87	
09 MAR 87	1801	1755.4	-5.0	2	68-85	1	P	C4	22 APR 87	
16 MAR 87	1801	1768.2	-.8	2	252-85	1	P	C4	22 APR 87	
23 MAR 87	1803	1771.7		1	354-83	1	P	C4	30 APR 87	
30 MAR 87	1800	1767.4	-1.2	2	708-85	1	P	C4	30 APR 87	
06 APR 87	1800	1743.7	4.3	2	303-83	1	P	C4	21 MAY 87	
13 APR 87	1802	1748.6	-4.7	2	871-83	1	P	C4	21 MAY 87	
20 APR 87	1804	1751.2	-8.9	2	12-83	1	P	C4	01 JUN 87	
27 APR 87	1802	1752.0	.2	2	228-83	1	P	C4	01 JUN 87	
04 MAY 87	1801	1753.0	-2.0	2	415-83	1	P	C4	15 JUN 87	
04 MAY 87	1801	1751.6		1	416-83	1	P	C4	15 JUN 87	
11 MAY 87	1806	1759.2	-10.0	2	508-82	1	P	C4	15 JUN 87	
18 MAY 87	1803	1757.0	-3.1	2	8-85	1	P	C4	23 JUN 87	
25 MAY 87	9999	1738.6	-4.0	2	504-83	1	P	C4	23 JUN 87	
01 JUN 87	1802	1738.0	9.4	2	414-83	1	P	C4	08 JUL 87	
08 JUN 87	1803	1745.4	-10.4	3	718-83	1	P	C4	08 JUL 87	
15 JUN 87	1802	1730.1	-2.7	2	42-85	1	P	C4	17 JUL 87	
22 JUN 87	1802	1734.2	-.5	2	556-85	1	P	C4	22 JUL 87	
22 JUN 87	9999	1721.4	3.9	2	242-83	1	P	C4	30 JUL 87	
06 JUL 87	1801	1723.0	5.2	2	816-85	1	P	C4	30 JUL 87	
13 JUL 87	1801	1732.5	.2	2	660-85	1	P	C4	02 SEP 87	
20 JUL 87	1802	1736.2	3.7	2	782-85	1	P	C4	02 SEP 87	
27 JUL 87	1803	1733.0	-.8	2	762-85	1	P	C4	15 SEP 87	
03 AUG 87	1802	1723.8	-8.5	2	818-85	1	P	C4	15 SEP 87	
10 AUG 87	1804	1728.9	2.1	2	1028-82	1	P	C4	15 SEP 87	
17 AUG 87	1802	1743.2	-6.9	2	768-85	1	P	C4	15 SEP 87	
24 AUG 87	1803	1733.1	-2.8	2	366-85	1	P	C4	06 OCT 87	
31 AUG 87	1803	1742.4	3.3	2	708-85	1	P	C4	08 OCT 87	
07 SEP 87	1805	1744.7	.9	2	932-82	1	P	C4	06 OCT 87	
14 SEP 87	1805	1750.9	7.1	2	90-83	1	P	C4	06 OCT 87	
21 SEP 87	1800	1746.9	-1.9	2	288-85	1	P	C4	27 OCT 87	
28 SEP 87	1804	1764.8	-8.9	2	800-85	1	P	C4	27 OCT 87	
05 OCT 87	1804	1771.8	7.6	2	385-85	1	P	C4	03 DEC 87	
12 OCT 87	1804	1771.0	10.4	3	110-87	1	P	C4	03 DEC 87	
17 OCT 87	1804	1763.0	-7.9	2	106-87	1	P	C4	03 DEC 87	
26 OCT 87	1909	1761.4	1.5	2	108-87	1	P	C4	03 DEC 87	
02 NOV 87	1806	1758.4	.5	2	376-85	1	P	C4	02 JAN 88	
09 NOV 87	1807	1765.2	5.0	2	746-85	1	P	C4	02 JAN 88	
16 NOV 87	1804	1784.9	6.5	2	536-83	1	P	C4	06 JAN 88	
23 NOV 87	1801	1768.0	-5.5	2	654-85	1	P	C4	06 JAN 88	
30 NOV 87	1807	1769.0	-2.3	2	1172-82	1	P	C4	26 JAN 88	
07 DEC 87	1815	1753.8	-4.4	2	514-83	1	P	C4	26 JAN 88	
14 DEC 87	1852	1778.6	6.9	2	317-83	1	P	C4	19 JAN 88	
21 DEC 87	2050	1783.2	3.2	2	932-83	1	P	C4	19 JAN 88	
28 DEC 87	1835	1753.6	11.9	3	220-85	1	P	C4	04 FEB 88	
04 JAN 88	1807	1751.3	3.5	2	592-85	1	P	C4	04 FEB 88	
11 JAN 88	2355	1762.3	.4	3	210-83	1	P	C4	19 FEB 88	
18 JAN 88	2152	1832.4	-4.3	2	79-85	1	P	C4	24 FEB 88	
18 JAN 88	2152	1828.4		1	80-85	1	P	C4	24 FEB 88	
25 JAN 88	2149	1759.8	5.3	2	74-85	1	P	C4	09 MAR 88	
01 FEB 88	1835	1775.3	5.0	2	704-85	1	P	C4	09 MAR 88	
08 FEB 88	1810	1806.4	-6.6	2	946-81	1	P	C4	10 MAR 88	
15 FEB 88	1807	1764.5	.3	2	690-83	1	P	C4	10 MAR 88	
22 FEB 88	1832	1770.6	2.9	2	230-86	1	P	C4	12 APR 88	
29 FEB 88	1825	1764.9	9.6	2	268-86	1	P	C4	12 APR 88	
07 MAR 88	1805	1781.7	-5.1	2	26-85	1	P	C4	18 APR 88	
14 MAR 88	1835	1754.6	3.9	2	792-85	1	P	C4	18 APR 88	
28 MAR 88	1750	1796.5	-1.2	2	290-86	1	P	C4	16 MAY 88	
04 APR 88	1808	1794.6	3.9	2	292-86	1	P	C4	16 MAY 88	
04 APR 88	1816	1776.5	3.7	2	170-85	1	P	C4	16 MAY 88	
18 APR 88	1802	1763.7	7.9	2	392-86	1	P	C4	16 MAY 88	
25 APR 88	1817	1781.6	2.0	2	114-85	1	P	C4	14 JUN 88	
03 MAY 88	2255	1769.5	-2.6	2	344-85	1	P	C4	14 JUN 88	

Alert, Canada (ALT)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
09 MAY 88	1814	1769.2	-3.4	2	108-85	1	P	C4	20 JUN 88	
17 MAY 88	0338	1758.6	-2.9	2	702-85	1	P	C4	20 JUN 88	
23 MAY 88	2038	1755.3	1.3	2	118-85	1	P	C4	20 JUN 88	
30 MAY 88	1800	1756.3	6.6	2	254-85	1	P	C4	20 JUN 88	
06 JUN 88	1806	1761.1	0.0	2	42-85	1	P	C4	18 JUL 88	
13 JUN 88	1812	1755.1	2.2	2	262-87	1	P	C4	18 JUL 88	
20 JUN 88	1413	1739.6	12.6	3	64-85	1	P	C4	18 AUG 88	
27 JUN 88	1824	1741.7	2.9	2	282-87	1	P	C4	18 AUG 88	
04 JUL 88	1855	1743.6	-6.3	2	196-85	1	P	C4	26 AUG 88	
11 JUL 88	1823	1739.6	7.6	2	286-85	1	P	C4	26 AUG 88	
18 JUL 88	1805	1717.7	-1.8	2	72-85	1	P	C4	30 AUG 88	
25 JUL 88	1805	1729.1	1.0	2	332-85	1	P	C4	30 AUG 88	
01 AUG 88	1804	1727.9	-2.7	2	334-86	1	P	C4	30 AUG 88	
08 AUG 88	1815	1720.5	-5.0	2	526-87	1	P	C4	30 AUG 88	
15 AUG 88	9999	1736.4	.3	2	66-85	1	P	C4	29 SEP 88	
22 AUG 88	1815	1746.3	-5.8	2	362-86	1	P	C4	28 SEP 88	
29 AUG 88	1820	1738.7	1.0	2	73-85	1	P	C4	24 OCT 88	
29 AUG 88	1820	1736.4	-14.6	2	74-85	1	P	C4	20 OCT 88	
06 SEP 88	1810	1754.4	-.2	2	538-87	1	P	C4	24 OCT 88	
13 SEP 88	1820	1753.2	-10.0	3	328-86	1	P	C4	24 OCT 88	
20 SEP 88	1435	1768.9	6.7	2	408-85	1	P	C4	24 OCT 88	
26 SEP 88	1410	1764.5	1.6	2	397-86	1	P	C4	17 NOV 88	
26 SEP 88	1410	1764.1		1	398-86	1	P	C4	17 NOV 88	
07 OCT 88	1658	1786.3	-5.3	2	522-87	1	P	C4	17 NOV 88	
14 OCT 88	1740	1778.7	-2.3	2	118-85	1	P	C4	22 NOV 88	
21 OCT 88	1627	1781.2	2.6	2	236-86	1	P	C4	22 NOV 88	
28 OCT 88	1540	1776.1	0.0	2	92-85	1	P	C4	21 DEC 88	
04 NOV 88	1655	1795.7	1.2	2	258-85	1	P	C4	21 DEC 88	
11 NOV 88	1808	1795.4	2.3	2	90-87	1	P	C4	21 DEC 88	
18 NOV 88	1540	1778.5	-8.2	2	276-85	1	P	C4	21 DEC 88	
25 NOV 88	1755	1764.0	12.8	3	370-81	1	P	C4	27 JAN 89	
02 DEC 88	1658	1805.7	2.5	2	368-81	1	P	C4	27 JAN 89	
23 DEC 88	2100	1766.9	-4.9	4	356-81	1	P	C4	22 FEB 89	
30 DEC 88	1805	1793.2	-13.6	3	358-81	1	P	C4	22 FEB 89	

Note: During the period 04 Apr 86 - 21 Apr 86, the frequency of flask sampling by the AES personnel with their own glass flasks was increased as part of their participation in the second Arctic Gas and Aerosol Sampling Program (AGASP II). A subset of these flask samples was analyzed at NOAA/CMDL, and they appear in this listing as flask type 5, and collection method T. The AES glass flasks were cylindrical in shape, with a volume of approximately 3 liters, and had a single stopcock, but unlike the NOAA/CMDL flask type 5, the AES flasks had a greased stopcock. For such a relatively small number of flasks we did not think it necessary to create a separate classification for this flask type in Table 2.

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
01 JAN 86	0900	1588.8	4.5	2	508-85	1	P	C4	04 AUG 86	
27 FEB 86	0430	1581.9	-.9	2	560-85	1	P	C4	29 DEC 86	
21 MAR 86	0315	1590.6	-2.0	2	528-85	1	P	C4	23 DEC 86	
13 APR 86	0510	1594.5	3.8	2	514-83	1	P	C4	23 DEC 86	
26 APR 86	0505	1591.7	4.0	2	516-83	1	P	C4	23 DEC 86	
03 MAY 86	0400	1593.2	1.6	2	510-83	1	P	C4	29 DEC 86	
08 MAY 86	0345	1593.3	2.5	2	512-83	1	P	C4	29 DEC 86	
11 MAY 86	0445	1596.0	-2.2	2	506-83	1	P	C4	23 DEC 86	
27 MAY 86	0445	1608.2	-2.8	2	508-83	1	P	C4	23 DEC 86	
12 JUN 86	0355	1606.2	13.3	3	504-83	1	P	C4	11 DEC 86	
17 JUN 86	0420	1603.0	-7.9	2	490-85	1	P	C4	11 DEC 86	
25 JUN 86	0415	1605.7	-7.1	2	492-85	1	P	C4	11 DEC 86	
04 JUL 86	0540	1609.9	2.0	2	496-85	1	P	C4	10 SEP 87	
10 JUL 86	0420	1610.2	-1.4	2	494-85	1	P	C4	10 SEP 87	
15 JUL 86	0445	1608.1	5.7	2	486-85	1	P	C4	10 SEP 87	
23 JUL 86	0400	1606.7	6.8	2	488-85	1	P	C4	09 SEP 87	
14 AUG 86	0415	1615.5	1.8	2	439-83	1	P	C4	11 SEP 87	
14 AUG 86	0415	1625.2		1	440-83	1	P	C4	11 SEP 87	
27 AUG 86	0330	1611.8	-2.0	2	434-83	1	P	C4	10 SEP 87	
31 AUG 86	0350	1615.0	-3.5	2	436-83	1	P	C4	10 SEP 87	
04 SEP 86	0355	1617.7	4.9	2	430-83	1	P	C4	10 SEP 87	
18 SEP 86	0420	1615.8	-2.4	2	432-83	1	P	C4	10 SEP 87	
24 SEP 86	0445	1610.9	-1.9	2	428-83	1	P	C4	10 SEP 87	
14 OCT 86	0440	1612.4	7.3	3	466-83	1	P	C4	09 SEP 87	
23 OCT 86	0410	1614.0	-3.1	2	462-83	1	P	C4	10 SEP 87	
26 OCT 86	0415	1611.3	9.2	2	464-83	1	P	C4	11 SEP 87	
14 NOV 86	0400	1608.8	-.6	3	460-83	1	P	C4	10 SEP 87	
21 DEC 86	0355	1602.4	2.4	2	47-83	1	P	C4	10 SEP 87	
11 JAN 87	0420	1597.3	-1.6	2	238-85	1	P	C4	10 SEP 87	
27 JAN 87	1015	1592.5	2.1	2	218-85	1	P	C4	10 SEP 87	
28 JAN 87	0640	1597.7	-1.6	2	224-85	1	P	C4	10 SEP 87	
01 FEB 87	0545	1592.7	-.2	2	226-85	1	P	C4	10 SEP 87	
04 FEB 87	0540	1595.6	1.5	2	522-85	1	P	C4	10 SEP 87	
13 FEB 87	0540	1587.8	-3.9	2	164-85	1	P	C4	17 NOV 87	
08 JUL 87	1125	1618.6	2.0	2	554-85	1	P	C4	17 NOV 87	
13 JUL 87	0617	1628.3	.4	2	556-85	1	P	C4	17 NOV 87	
21 JUL 87	0545	1623.3	-1.4	2	582-85	1	P	C4	17 NOV 87	
25 JUL 87	0538	1619.3	1.1	2	562-85	1	P	C4	17 NOV 87	
22 NOV 87	0520	1629.7	-1.8	2	536-85	1	P	C4	03 AUG 88	
02 DEC 87	1025	1622.1	-1.2	2	230-85	1	P	C4	02 AUG 88	
09 DEC 87	1305	1620.3	1.2	2	227-85	1	P	C4	02 AUG 88	
11 JAN 88	0640	1598.5		1	262-85	1	P	C4	12 DEC 88	
04 FEB 88	0600	1602.2	-1.4	2	222-87	1	P	C4	09 DEC 88	
27 MAR 88	0542	1605.6	-.6	2	223-87	1	P	C4	13 DEC 88	
28 MAR 88	0600	1600.1		1	218-87	1	P	C4	13 DEC 88	
30 MAR 88	0530	1605.2	2.9	2	220-87	1	P	C4	13 DEC 88	
09 APR 88	0600	1613.7	4.6	2	216-87	1	P	C4	12 DEC 88	
04 JUL 88	0540	1623.1	2.2	2	164-87	1	P	C4	04 AUG 89	
30 JUL 88	0600	1629.1	1.5	2	148-87	1	P	C4	03 AUG 89	
01 AUG 88	0600	1634.2		1	146-87	1	P	C4	03 AUG 89	
05 AUG 88	0615	1635.2	-6.0	2	138-87	1	P	C4	04 AUG 89	
19 AUG 88	0615	1631.8		1	143-87	1	P	C4	02 AUG 89	
21 AUG 88	1120	1631.0	1.2	2	142-87	1	P	C4	02 AUG 89	
31 AUG 88	1030	1634.0		1	193-87	1	P	C4	03 AUG 89	
04 SEP 88	1030	1636.8		1	184-87	1	P	C4	03 AUG 89	
08 SEP 88	1020	1636.9	4.4	2	206-87	1	P	C4	03 AUG 89	
11 SEP 88	1130	1636.9	5.9	2	132-87	1	P	C4	02 AUG 89	
13 SEP 88	1030	1632.8		1	226-87	1	P	C4	03 AUG 89	
15 SEP 88	1115	1633.2	-6.2	2	228-87	1	P	C4	03 AUG 89	
18 SEP 88	1130	1637.8	2.0	2	232-87	1	P	C4	03 AUG 89	
20 SEP 88	0500	1638.0	.3	2	202-87	1	P	C4	02 AUG 89	
27 SEP 88	1010	1636.7	3.4	2	204-86	1	P	C4	02 AUG 89	
09 OCT 88	1045	1636.3	-1.9	2	532-85	1	P	C4	04 AUG 89	
11 OCT 88	1030	1641.4	4.6	2	538-85	1	P	C4	04 AUG 89	

Amsterdam Island (AMS)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
16 OCT 88	1115	1634.8	-.4	2	176-86	1	P	C4	03 AUG 89	
24 DEC 88	0620	1621.4	-3.3	2	12-88	1	P	C4	04 AUG 89	

Ascension Island (ASC)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
03 JAN 86	0920	1596.4	6.6	2	630-82	1	P	C4	04 FEB 86	
07 JAN 86	0945	1602.7	-8.3	3	708-83	1	P	C4	04 FEB 86	
30 JAN 86	0915	1593.4	-4.8	2	354-83	1	P	C4	14 FEB 86	
06 FEB 86	0915	1588.6	-3.9	2	362-82	1	P	C4	18 FEB 86	
13 FEB 86	0917	1597.0	-2.5	2	1314-82	1	P	C4	14 MAR 86	
27 FEB 86	1000	1601.4	.5	2	804-82	1	P	C4	13 MAR 86	
06 MAR 86	0915	1603.2	3.3	2	894-83	1	P	C4	24 MAR 86	
13 MAR 86	1000	1603.7	4.0	2	852-83	1	P	C4	22 APR 86	
20 MAR 86	1415	1597.9	-3.2	2	28-85	1	P	C4	31 MAR 86	
27 MAR 86	1000	1592.6	8.1	3	196-83	1	P	C4	16 APR 86	
03 APR 86	1000	1601.1	2.0	2	296-83	1	P	C4	18 APR 86	
10 APR 86	1530	1623.2		1	958-83	1	P	C4	20 APR 86	
17 APR 86	0930	1611.0	-7.0	2	30-85	1	P	C4	24 APR 86	
24 APR 86	0922	1616.5	-1.8	2	882-82	1	P	C4	09 MAY 86	
01 MAY 86	0917	1617.3		1	862-83	1	P	C4	09 MAY 86	
15 MAY 86	1000	1619.5		1	848-83	1	P	C4	28 MAY 86	
29 MAY 86	1545	1612.4	.4	2	728-85	1	P	C4	10 JUN 86	
05 JUN 86	0915	1630.9	-4.3	2	478-82	1	P	C4	08 AUG 86	
12 JUN 86	1600	1611.7	-4.4	2	680-83	1	P	C4	07 JUL 86	
19 JUN 86	1025	1617.6	1.4	2	718-85	1	P	C4	07 JUL 86	
26 JUN 86	0925	1623.1	-4.1	2	1698-82	1	P	C4	30 JUL 86	
03 JUL 86	0850	1615.1	-1.6	2	1828-82	1	P	C4	30 JUL 86	
10 JUL 86	0936	1615.2	-5.5	2	730-82	1	P	C4	23 JUL 86	
17 JUL 86	0755	1621.5	1.2	2	430-85	1	P	C4	29 JUL 86	
31 JUL 86	0807	1625.4	3.5	2	806-83	1	P	C4	08 AUG 86	
07 AUG 86	0755	1628.7	-.2	2	248-85	1	P	C4	20 SEP 86	
14 AUG 86	0835	1617.4	14.7	3	708-85	1	P	C4	19 SEP 86	
21 AUG 86	0835	1623.2	4.5	2	162-83	1	P	C4	20 SEP 86	
28 AUG 86	0925	1614.6	2.8	2	270-85	1	P	C4	23 SEP 86	
04 SEP 86	0755	1615.2	0.0	2	834-83	1	P	C4	18 SEP 86	
18 SEP 86	1115	1625.5	5.2	2	70-85	1	P	C4	08 OCT 86	
25 SEP 86	1020	1619.3	7.1	2	1080-82	1	P	C4	13 OCT 86	
02 OCT 86	0914	1620.3	-5.6	2	1164-82	1	P	C4	13 OCT 86	
09 OCT 86	1025	1635.6	-9.1	2	502-82	1	P	C4	20 OCT 86	
15 OCT 86	0915	1624.1	0.0	2	422-83	1	P	C4	12 NOV 86	
23 OCT 86	0940	1623.2	-5.6	2	1220-82	1	P	C4	12 NOV 86	
30 OCT 86	0945	1633.6	1.7	2	942-83	1	P	C4	17 NOV 86	
06 NOV 86	0923	1638.5	-3.4	2	34-82	1	P	C4	29 DEC 86	
13 NOV 86	0945	1636.5	-4.4	2	354-83	1	P	C4	23 DEC 86	
21 NOV 86	0920	1625.9	-.9	2	982-81	1	P	C4	09 DEC 86	
27 NOV 86	0920	1617.8	-4.7	2	324-85	1	P	C4	10 DEC 86	
02 DEC 86	1000	1615.3	3.4	2	44-83	1	P	C4	23 DEC 86	
11 DEC 86	1425	1640.6	-.9	2	318-83	1	P	C4	22 DEC 86	
18 DEC 86	0930	1606.8	-.1	2	1172-82	1	P	C4	30 DEC 86	
26 DEC 86	1330	1622.8	-8.5	2	348-85	1	P	C4	09 JAN 87	
01 JAN 87	1115	1611.8	-5.9	2	264-83	1	P	C4	15 JAN 87	
08 JAN 87	0925	1612.0	1.0	2	72-85	1	P	C4	15 JAN 87	
15 JAN 87	0910	1606.5	-6.2	2	400-83	1	P	C4	22 JAN 87	
22 JAN 87	0930	1611.9	-3.0	2	516-83	1	P	C4	03 FEB 87	
29 JAN 87	0920	1616.5	3.5	2	657-83	1	P	C4	11 FEB 87	
04 FEB 87	1045	1627.8	7.2	2	342-85	1	P	C4	18 FEB 87	
12 FEB 87	1020	1603.0	-1.8	2	682-83	1	P	C4	24 FEB 87	
19 FEB 87	0925	1616.4	-1.5	2	50-83	1	P	C4	13 MAR 87	
26 FEB 87	0925	1601.1	-2.5	2	86-85	1	P	C4	13 MAR 87	
05 MAR 87	1000	1613.1	4.3	2	54-85	1	P	C4	13 MAR 87	
12 MAR 87	0945	1614.1	-1.4	2	701-85	1	P	C4	24 MAR 87	
19 MAR 87	1045	1612.7	-2.5	2	75-85	1	P	C4	02 APR 87	
26 MAR 87	0930	1622.2	5.3	2	816-83	1	P	C4	02 APR 87	
02 APR 87	0915	1631.7	3.7	2	46-85	1	P	C4	22 APR 87	
09 APR 87	0920	1615.7	-7.7	2	162-83	1	P	C4	21 APR 87	
16 APR 87	0930	1622.0	-7.3	2	548-83	1	P	C4	30 APR 87	
23 APR 87	0930	1628.7	.6	2	376-85	1	P	C4	30 APR 87	
30 APR 87	0913	1625.9	5.3	2	184-85	1	P	C4	13 MAY 87	
07 MAY 87	0830	1632.0	-1.1	2	780-85	1	P	C4	15 MAY 87	

Ascension Island (ASC)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
14 MAY 87	1030	1645.0	4.5	2	832-85	1	P	C4	26 MAY 87	
21 MAY 87	0938	1629.9	-10.6	3	1272-82	1	P	C4	01 JUN 87	
28 MAY 87	1050	1636.4	-7.3	2	626-85	1	P	C4	09 JUN 87	
04 JUN 87	0935	1633.2	-.3	2	8-83	1	P	C4	15 JUN 87	
11 JUN 87	1015	1633.4	1.8	2	248-83	1	P	C4	30 JUN 87	
18 JUN 87	1020	1636.3	.6	2	310-83	1	P	C4	30 JUN 87	
25 JUN 87	0900	1640.8	-11.1	3	303-83	1	P	C4	08 JUL 87	
02 JUL 87	0937	1629.1	-3.1	2	264-83	1	P	C4	13 JUL 87	
09 JUL 87	0930	1630.5	4.4	2	580-85	1	P	C4	22 JUL 87	
16 JUL 87	0930	1650.4	-2.7	2	828-85	1	P	C4	12 AUG 87	
23 JUL 87	0915	1630.0	5.1	2	228-83	1	P	C4	12 AUG 87	
30 JUL 87	0922	1636.0	-1.1	2	1762-82	1	P	C4	10 AUG 87	
13 AUG 87	0915	1635.9	1.4	2	896-83	1	P	C4	09 SEP 87	
20 AUG 87	0945	1631.2	-10.7	3	676-83	1	P	C4	03 SEP 87	
27 AUG 87	0935	1643.3	4.9	2	696-85	1	P	C4	09 SEP 87	
17 SEP 87	1145	1639.3	-3.1	2	778-83	1	P	C4	30 SEP 87	
24 SEP 87	0814	1632.9	7.3	2	152-85	1	P	C4	06 OCT 87	
01 OCT 87	0915	1629.9	2.9	2	1220-82	1	P	C4	08 OCT 87	
08 OCT 87	1135	1637.3	.9	2	764-85	1	P	C4	27 OCT 87	
15 OCT 87	0805	1639.7	3.8	2	618-85	1	P	C4	26 OCT 87	
22 OCT 87	0948	1626.7	-1.5	2	176-85	1	P	C4	09 NOV 87	
29 OCT 87	1400	1631.3	6.5	2	692-85	1	P	C4	09 NOV 87	
05 NOV 87	0830	1630.6	-.4	2	90-87	1	P	C4	18 NOV 87	
12 NOV 87	1350	1624.4	4.1	2	276-87	1	P	C4	18 NOV 87	
19 NOV 87	1400	1637.6	-7.1	2	380-85	1	P	C4	08 DEC 87	
26 NOV 87	1000	1628.6	-5.6	2	416-85	1	P	C4	08 DEC 87	
03 DEC 87	0900	1619.2	-8.9	2	276-86	1	P	C4	02 JAN 88	
12 DEC 87	0830	1623.8	-7.4	2	558-87	1	P	C4	31 DEC 87	
17 DEC 87	1300	1623.8	-2.2	2	314-85	1	P	C4	05 JAN 88	
24 DEC 87	0905	1641.2	-1.3	2	104-87	1	P	C4	07 JAN 88	
31 DEC 87	0930	1618.7	1.4	2	156-85	1	P	C4	13 JAN 88	
07 JAN 88	0800	1613.2	-.4	2	324-85	1	P	C4	19 JAN 88	
14 JAN 88	0800	1612.8	3.5	2	396-86	1	P	C4	26 JAN 88	
21 JAN 88	0800	1608.2	-5.5	2	354-86	1	P	C4	03 FEB 88	
28 JAN 88	0900	1612.3	-3.1	2	256-85	1	P	C4	24 FEB 88	
04 FEB 88	0830	1613.8	1.3	2	290-85	1	P	C4	24 FEB 88	
11 FEB 88	0800	1614.6	1.9	2	378-86	1	P	C4	24 FEB 88	
18 FEB 88	0800	1617.4	9.8	2	146-85	1	P	C4	01 MAR 88	
25 FEB 88	0800	1612.6	-6.8	2	244-87	1	P	C4	10 MAR 88	
03 MAR 88	0800	1634.8	-3.3	2	552-87	1	P	C4	23 MAR 88	
10 MAR 88	0830	1634.9	9.5	2	258-85	1	P	C4	23 MAR 88	
17 MAR 88	0900	1625.4	-3.8	2	156-85	1	P	C4	24 MAR 88	
24 MAR 88	0900	1622.1	-6.2	2	332-86	1	P	C4	11 APR 88	
31 MAR 88	0910	1628.2	1.9	2	594-87	1	P	C4	11 APR 88	
07 APR 88	0900	1613.3	1.7	2	400-86	1	P	C4	13 APR 88	
21 APR 88	0900	1622.6	1.0	2	314-85	1	P	C4	13 MAY 88	
28 APR 88	0900	1626.7	-11.0	3	530-87	1	P	C4	16 MAY 88	
05 MAY 88	0905	1645.3	-1.5	2	20-85	1	P	C4	17 MAY 88	
12 MAY 88	0900	1640.9	1.5	2	176-85	1	P	C4	23 MAY 88	
19 MAY 88	0910	1636.5	3.6	2	406-85	1	P	C4	31 MAY 88	
26 MAY 88	0900	1633.3	2.9	2	264-87	1	P	C4	14 JUN 88	
02 JUN 88	0900	1636.8	5.1	2	350-86	1	P	C4	13 JUN 88	
09 JUN 88	0900	1621.5	2.3	2	688-85	1	P	C4	22 JUN 88	
16 JUN 88	0900	1642.4	3.5	2	686-85	1	P	C4	22 JUN 88	
23 JUN 88	0900	1642.6	-3.2	2	356-86	1	P	C4	01 JUL 88	
30 JUN 88	1330	1643.8	.5	2	320-86	1	P	C4	13 JUL 88	
07 JUL 88	0900	1640.3	-5.7	2	380-85	1	P	C4	09 AUG 88	
14 JUL 88	0900	1644.1	5.6	2	530-87	1	P	C4	09 AUG 88	
21 JUL 88	0900	1642.8	1.8	2	258-87	1	P	C4	16 AUG 88	
28 JUL 88	0900	1645.4	-8.7	2	520-87	1	P	C4	10 AUG 88	
04 AUG 88	0900	1640.0	.1	2	240-86	1	P	C4	16 AUG 88	
11 AUG 88	0850	1651.9	2.2	2	798-85	1	P	C4	26 AUG 88	
18 AUG 88	0750	1666.8	-.2	2	584-87	1	P	C4	30 AUG 88	+
01 SEP 88	0800	1651.5	-9.6	2	360-85	1	P	C4	19 SEP 88	
08 SEP 88	0815	1638.9	1.2	2	568-85	1	P	C4	14 OCT 88	

Ascension Island (ASC)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
15 SEP 88	0805	1643.3	-3.4	2	296-86	1	P	C4	22 SEP 88	
22 SEP 88	0800	1652.7	-7.0	2	320-86	1	P	C4	29 SEP 88	
29 SEP 88	0810	1642.7	-1.4	2	259-87	1	P	C4	14 OCT 88	
29 SEP 88	0810	1646.7		1	260-87	1	P	C4	11 OCT 88	
06 OCT 88	0800	1651.3	.6	2	262-86	1	P	C4	20 OCT 88	
13 OCT 88	0750	1654.2	7.1	2	16-81	1	P	C4	24 OCT 88	
20 OCT 88	1035	1648.7	4.4	2	107-81	1	P	C4	02 NOV 88	
27 OCT 88	0830	1655.2	-12.8	2	198-81	1	P	C4	04 NOV 88	
03 NOV 88	0800	1639.8	.4	2	302-81	1	P	C4	10 NOV 88	
10 NOV 88	0800	1632.6	-3.0	2	324-81	1	P	C4	22 NOV 88	
17 NOV 88	0930	1643.2	-6.3	2	345-81	1	P	C4	01 DEC 88	
01 DEC 88	0943	1644.4	1.7	2	519-81	1	P	C4	14 DEC 88	
08 DEC 88	0755	1650.4	.9	2	412-81	1	P	C4	21 DEC 88	
12 DEC 88	0900	1634.7	4.8	2	86-81	1	P	C4	10 JAN 89	
15 DEC 88	0830	1640.4	-7.1	2	160-81	1	P	C4	06 JAN 89	
26 DEC 88	0945	1636.5	-14.2	3	666-81	1	P	C4	24 JAN 89	

St. Croix, Virgin Islands (AVI)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
02 JAN 86	2015	1678.3	5.2	2	624-83	1	P	C3	10 JAN 86	
10 JAN 86	2200	1676.9	2.6	2	508-82	1	P	C4	11 FEB 86	
17 JAN 86	1545	1688.3	6.7	2	1540-82	1	P	C4	03 FEB 86	
23 JAN 86	1550	1680.8		1	730-85	1	P	C4	29 JAN 86	
03 FEB 86	1900	1682.9	2.3	2	1742-82	1	P	C4	11 FEB 86	
07 FEB 86	2000	1703.1	4.8	2	240-85	1	P	C4	12 FEB 86	
14 FEB 86	1930	1672.1	-6.5	2	1630-82	1	P	C4	19 FEB 86	
08 MAR 86	2200	1693.9	-2.9	2	914-83	1	P	C4	21 MAR 86	
16 MAR 86	1920	1672.7	2.4	2	756-83	1	P	C4	21 MAR 86	
23 MAR 86	2010	1694.8	.1	2	1042-82	1	P	C4	01 APR 86	
02 APR 86	1930	1673.2		1	1552-82	1	P	C4	21 APR 86	
02 APR 86	1930	1671.8		1	1552-82	1	P	C4	22 APR 86	
11 APR 86	2050	1658.2	7.4	2	32-85	1	P	C4	18 APR 86	
25 APR 86	2130	1681.5	4.1	2	1540-82	1	P	C4	01 MAY 86	
05 MAY 86	1525	1674.6	.8	2	1376-82	1	P	C4	14 MAY 86	
12 MAY 86	2125	1655.4	.1	2	318-83	1	P	C4	31 MAY 86	
16 MAY 86	2200	1662.1	.6	2	888-83	1	P	C4	28 MAY 86	
19 MAY 86	2030	1658.4	.2	2	128-83	1	P	C4	12 JUN 86	
26 MAY 86	1500	1667.5	-4.9	2	1308-82	1	P	C4	11 JUN 86	
05 JUN 86	1550	1657.6	1.2	2	866-83	1	P	C4	12 JUN 86	
10 JUN 86	1545	1672.1	6.2	2	50-85	1	P	C4	07 AUG 86	
14 JUN 86	2230	1668.4	4.4	2	34-85	1	P	C4	09 AUG 86	
20 JUN 86	1545	1662.8	5.8	2	868-83	1	P	C4	08 AUG 86	
27 JUN 86	2230	1667.3	7.8	2	630-83	1	P	C4	08 JUL 86	
05 JUL 86	1700	1676.2	-4.1	2	136-83	1	P	C4	30 JUL 86	
14 JUL 86	1210	1662.0	1.2	2	627-85	1	P	C4	29 JUL 86	
18 JUL 86	2000	1664.1	5.4	2	622-83	1	P	C4	29 JUL 86	
26 JUL 86	1815	1655.9	4.6	2	706-85	1	P	C4	04 AUG 86	
02 AUG 86	1530	1658.0	0.0	2	316-85	1	P	C4	24 AUG 86	
09 AUG 86	1345	1668.7	-1.3	2	368-85	1	P	C4	18 SEP 86	
20 AUG 86	1815	1649.6	-3.8	2	716-85	1	P	C4	30 SEP 86	
25 AUG 86	2100	1665.0	-3.5	2	30-85	1	P	C4	11 SEP 86	
30 AUG 86	1720	1661.8	-3.9	2	922-83	1	P	C4	20 SEP 86	
14 SEP 86	1825	1654.6	-6.2	2	664-83	1	P	C4	19 SEP 86	
19 SEP 86	2045	1659.0	2.2	2	1203-82	1	P	C4	09 OCT 86	
19 SEP 86	2045	1654.5		1	1204-82	1	P	C4	08 OCT 86	
27 SEP 86	1845	1661.6	-6.8	2	842-85	1	P	C4	08 OCT 86	
03 OCT 86	2130	1668.4	3.8	2	946-83	1	P	C4	14 OCT 86	
11 OCT 86	2050	1670.9	3.4	2	178-82	1	P	C4	20 OCT 86	
17 OCT 86	2105	1680.4	-15.3	3	658-83	1	P	C4	12 NOV 86	
25 OCT 86	1925	1659.4	3.1	2	802-83	1	P	C4	12 NOV 86	
31 OCT 86	2110	1676.1	5.0	2	314-85	1	P	C4	14 NOV 86	
07 NOV 86	2110	1671.4	-3.1	2	342-85	1	P	C4	17 NOV 86	
15 NOV 86	1920	1690.9	.6	2	796-83	1	P	C4	23 DEC 86	
22 NOV 86	1545	1707.0	7.6	2	560-85	1	P	C4	08 DEC 86	
26 NOV 86	2030	1691.1	.5	2	50-85	1	P	C4	10 DEC 86	
05 DEC 86	2105	1687.8	3.9	2	780-83	1	P	C4	23 DEC 86	
12 DEC 86	2120	1692.6	-10.5	2	908-83	1	P	C4	22 DEC 86	
18 DEC 86	2001	1680.4	8.6	2	942-83	1	P	C4	29 DEC 86	
24 DEC 86	1415	1695.9	3.7	2	1546-82	1	P	C4	30 DEC 86	
07 JAN 87	1355	1730.4	-9.1	2	405-83	1	P	C4	09 JAN 87	
14 JAN 87	1750	1675.4	-.8	2	418-83	1	P	C4	22 JAN 87	
23 JAN 87	1530	1689.6	-2.6	2	38-85	1	P	C4	04 FEB 87	
29 JAN 87	1940	1677.5	2.7	2	962-83	1	P	C4	03 FEB 87	
08 FEB 87	1600	1681.7	-.1	2	385-85	1	P	C4	18 FEB 87	
13 FEB 87	1405	1673.6	-4.4	2	744-83	1	P	C4	24 FEB 87	
20 FEB 87	1545	1682.5	-2.5	2	120-84	1	P	C4	05 MAR 87	
27 FEB 87	1450	1713.9	-2.1	2	566-85	1	P	C4	13 MAR 87	
08 MAR 87	1710	1700.5	1.8	2	588-85	1	P	C4	24 MAR 87	
13 MAR 87	2105	1718.9	.4	2	368-85	1	P	C4	24 MAR 87	
20 MAR 87	2015	1662.0	5.3	2	136-85	1	P	C4	25 MAR 87	
29 MAR 87	1755	1717.1	1.0	2	642-83	1	P	C4	08 APR 87	
04 APR 87	1507	1684.2	-3.7	2	526-85	1	P	C4	22 APR 87	
09 APR 87	2055	1667.0	2.2	2	288-85	1	P	C4	21 APR 87	

St. Croix, Virgin Islands (AVI)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
19 APR 87	2305	1682.1	1.3	2	1546-82	1	P	C4	28 APR 87	
26 APR 87	1345	1680.3	1.4	2	75-85	1	P	C4	05 MAY 87	
02 MAY 87	1529	1684.1	-1.3	2	506-83	1	P	C4	13 MAY 87	
02 MAY 87	1529	1689.0	-7.0	2	506-83	1	P	C4	01 JUN 87	
10 MAY 87	2213	1687.4	1.4	2	292-85	1	P	C4	21 MAY 87	
17 MAY 87	1832	1669.4	7.5	2	792-85	1	P	C4	26 MAY 87	
24 MAY 87	2041	1673.0	7.7	2	820-85	1	P	C4	09 JUN 87	
31 MAY 87	9999	1672.3	-3.1	2	801-85	1	P	C4	09 JUN 87	
09 JUN 87	1550	1675.8	.1	2	1498-82	1	P	C4	18 JUN 87	
17 JUN 87	1700	1691.3	-3.6	2	400-83	1	P	C4	23 JUN 87	
25 JUN 87	1300	1679.3	-1.0	2	920-82	1	P	C4	30 JUN 87	
03 JUL 87	1340	1678.4	-1.4	2	618-85	1	P	C4	08 JUL 87	
10 JUL 87	1450	1664.4	.8	2	156-82	1	P	C4	13 JUL 87	
17 JUL 87	1705	1679.5	5.9	2	880-83	1	P	C4	22 JUL 87	
24 JUL 87	1720	1666.3	2.5	2	760-85	1	P	C4	30 JUL 87	
31 JUL 87	1218	1697.8	4.4	2	906-82	1	P	C4	11 AUG 87	
13 AUG 87	2025	1667.5	2.6	2	374-85	1	P	C4	02 SEP 87	
20 AUG 87	1318	1685.4	-4.1	2	776-85	1	P	C4	03 SEP 87	
28 AUG 87	1523	1675.4	.3	2	291-85	1	P	C4	11 SEP 87	
03 SEP 87	1314	1675.7	3.0	2	876-83	1	P	C4	11 SEP 87	
10 SEP 87	1437	1682.3	5.9	2	908-83	1	P	C4	15 SEP 87	
14 SEP 87	1428	1680.1	-.5	2	318-86	1	P	C4	24 SEP 87	
25 SEP 87	1722	1670.2	-1.7	2	122-85	1	P	C4	30 SEP 87	
02 OCT 87	1831	1680.2	4.2	2	101-87	1	P	C4	26 OCT 87	
08 OCT 87	1729	1687.6	-.5	2	439-83	1	P	C4	26 OCT 87	
19 OCT 87	1658	1650.1	1.1	2	238-86	1	P	C4	26 OCT 87	+
29 OCT 87	9999	1679.5	5.1	2	262-87	1	P	C4	09 NOV 87	
06 NOV 87	1918	1640.1	-9.2	2	332-85	1	P	C4	10 NOV 87	+
13 NOV 87	2015	1682.7	2.0	2	298-87	1	P	C4	24 NOV 87	
20 NOV 87	1949	1721.7	-1.9	2	160-85	1	P	C4	08 DEC 87	
27 NOV 87	2016	1693.9	2.2	2	258-85	1	P	C4	03 DEC 87	
03 DEC 87	1622	1701.2	-5.3	2	538-87	1	P	C4	08 DEC 87	
11 DEC 87	1608	1685.9	-.2	2	96-87	1	P	C4	04 JAN 88	
18 DEC 87	2120	1701.8	3.3	2	94-87	1	P	C4	04 JAN 88	
23 DEC 87	1540	1722.1	-.4	2	450-85	1	P	C4	04 JAN 88	
05 JAN 88	1301	1705.3	4.4	2	550-87	1	P	C4	13 JAN 88	
11 JAN 88	1320	1712.8	-3.0	2	386-85	1	P	C4	19 JAN 88	
21 JAN 88	2143	1713.7	-.6	2	190-85	1	P	C4	03 FEB 88	
26 JAN 88	1812	1686.8	-8.4	2	240-87	1	P	C4	03 FEB 88	
02 FEB 88	1510	1715.5	-.1	2	412-86	1	P	C4	18 FEB 88	
10 FEB 88	1323	1698.2	2.6	2	365-86	1	P	C4	26 FEB 88	
16 FEB 88	1710	1695.3	-3.2	2	370-86	1	P	C4	26 FEB 88	
22 FEB 88	1930	1697.9	-8.6	2	164-85	1	P	C4	02 MAR 88	
29 FEB 88	1410	1727.7	5.9	2	144-85	1	P	C4	10 MAR 88	
07 MAR 88	1445	1713.2	-1.5	2	390-86	1	P	C4	10 MAR 88	
15 MAR 88	1555	1691.1	1.5	2	292-85	1	P	C4	13 APR 88	
23 MAR 88	1400	1721.1	2.3	2	404-86	1	P	C4	08 APR 88	
30 MAR 88	1735	1722.4	-6.5	2	120-85	1	P	C4	12 APR 88	
06 APR 88	1300	1702.5	5.3	2	96-87	1	P	C4	18 APR 88	
11 APR 88	2100	1676.3	-1.9	2	592-87	1	P	C4	22 APR 88	
18 APR 88	1315	1693.7	10.7	2	372-85	1	P	C4	27 APR 88	
25 APR 88	1815	1699.9	4.8	2	390-86	1	P	C4	04 MAY 88	
02 MAY 88	1945	1698.8	10.4	3	126-87	1	P	C4	16 MAY 88	
11 MAY 88	1915	1686.6	4.7	2	144-85	1	P	C4	17 MAY 88	
18 MAY 88	1900	1691.6	-9.6	2	416-86	1	P	C4	01 JUN 88	
24 MAY 88	1833	1691.4	-.6	2	78-87	1	P	C4	14 JUN 88	
08 JUN 88	1800	1683.1	-5.5	2	356-85	1	P	C4	15 JUN 88	
14 JUN 88	1734	1685.4	1.1	2	224-86	1	P	C4	22 JUN 88	
28 JUN 88	1513	1685.9	-16.4	3	650-85	1	P	C4	13 JUL 88	
21 JUL 88	2023	1680.9	4.8	2	292-87	1	P	C4	16 AUG 88	
27 JUL 88	2200	1680.9	3.0	2	376-85	1	P	C4	10 AUG 88	
02 AUG 88	1300	1677.6	-2.0	2	120-85	1	P	C4	17 AUG 88	
11 AUG 88	1256	1694.1	.9	2	225-86	1	P	C4	31 AUG 88	
11 AUG 88	1256	1688.9		1	226-86	1	P	C4	26 AUG 88	
17 AUG 88	2208	1697.1	2.4	2	296-87	1	P	C4	30 AUG 88	

St. Croix, Virgin Islands (AVI)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
25 AUG 88	2300	1686.1	3.3	2	288-87	1	P	C4	31 AUG 88	
31 AUG 88	2106	1694.3	-3.7	2	84-85	1	P	C4	16 SEP 88	
08 SEP 88	2250	1686.0	-.1	2	324-86	1	P	C4	16 SEP 88	
15 SEP 88	1750	1685.7	9.1	2	412-86	1	P	C4	22 SEP 88	
21 SEP 88	2110	1680.1	-.8	2	280-87	1	P	C4	29 SEP 88	
28 SEP 88	2120	1668.4	2.3	2	264-87	1	P	C4	14 OCT 88	
06 OCT 88	2355	1693.9	3.9	2	300-86	1	P	C4	20 OCT 88	
20 OCT 88	2100	1687.1	4.7	2	78-81	1	P	C4	02 NOV 88	
26 OCT 88	2206	1691.2	3.5	2	98-81	1	P	C4	04 NOV 88	
02 NOV 88	2215	1652.5	-3.2	2	190-81	1	P	C4	17 NOV 88	+
08 NOV 88	2135	1708.4	-3.1	2	325-81	1	P	C4	22 NOV 88	
22 NOV 88	1217	1691.0	5.7	2	438-81	1	P	C4	07 DEC 88	
29 NOV 88	1306	1733.4	8.7	2	556-81	1	P	C4	14 DEC 88	
07 DEC 88	1129	1722.0	24.0	2	34-81	1	P	C4	21 DEC 88	
15 DEC 88	2100	1715.5	1.7	2	624-81	1	P	C4	04 JAN 89	
20 DEC 88	2058	1720.8	5.3	2	318-81	1	P	C4	09 JAN 89	
23 DEC 88	2215	1710.2	-2.6	2	637-81	1	P	C4	09 JAN 89	
29 DEC 88	2028	1719.5	2.4	2	636-81	1	P	C4	09 JAN 89	

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
29 JAN 86	2000	1717.2	.3	2	1646-82	1	P	C4	18 FEB 86	
31 JAN 86	2000	1730.1		1	502-82	1	P	C4	19 FEB 86	
19 MAR 86	1000	1694.3	-1.2	2	1304-82	1	P	C4	12 JUN 86	
30 MAY 86	1750	1705.2	3.9	2	24-85	1	P	C4	29 JUL 86	
14 JUN 86	1855	1705.8	-4.3	2	32-85	1	P	C4	29 JUL 86	
05 AUG 86	2055	1705.6	-3.7	2	630-83	1	P	C4	18 SEP 86	
16 AUG 86	2050	1710.1	2.1	2	212-85	1	P	C4	19 SEP 86	
28 AUG 86	1955	1709.1	2.2	2	646-83	1	P	C4	19 SEP 86	
17 DEC 86	1000	1726.1	7.4	2	67-85	1	P	C4	29 DEC 86	
12 JAN 87	1030	1754.9	2.3	3	676-83	1	P	C4	03 FEB 87	
22 JAN 87	1620	1719.6	-3.2	2	548-83	1	P	C4	18 FEB 87	
26 JAN 87	1430	1751.4	-5.6	2	270-85	1	P	C4	18 FEB 87	
06 FEB 87	1115	1725.1	-.4	2	754-83	1	P	C4	24 FEB 87	
13 FEB 87	1030	1731.5	-6.2	2	717-85	1	P	C4	24 FEB 87	
21 FEB 87	1030	1723.6	-7.4	2	80-85	1	P	C4	04 MAR 87	
26 FEB 87	1030	1724.1	-1.4	2	946-81	1	P	C4	04 MAR 87	
12 MAR 87	1030	1728.1	-.4	2	106-85	1	P	C4	21 APR 87	
05 APR 87	0800	1737.8	-6.3	2	412-85	1	P	C4	13 MAY 87	
26 APR 87	1535	1730.0	-10.6	3	410-85	1	P	C4	13 MAY 87	
16 JUN 87	1400	1721.6	-5.1	2	416-85	1	P	C4	08 JUL 87	
25 JUN 87	1330	1686.2	3.5	2	414-85	1	P	C4	08 JUL 87	
03 JUL 87	1630	1718.5	-3.5	2	528-85	1	P	C4	12 AUG 87	
16 JUL 87	1030	1701.6	5.5	2	420-85	1	P	C4	30 JUL 87	
24 JUL 87	1255	1729.0	-1.7	2	417-85	1	P	C4	30 JUL 87	
06 AUG 87	1230	1685.7	8.8	2	320-85	1	P	C4	09 SEP 87	
14 AUG 87	1433	1675.4	2.8	2	56-85	1	P	C4	30 SEP 87	
31 AUG 87	1430	1718.6	-4.3	2	508-85	1	P	C4	30 SEP 87	
18 SEP 87	1427	1733.1	10.6	3	164-85	1	P	C4	30 SEP 87	
09 OCT 87	1330	1730.6	5.5	2	657-83	1	P	C4	28 OCT 87	
23 OCT 87	1350	1751.5	4.2	2	1586-82	1	P	C4	27 OCT 87	
05 NOV 87	1535	1743.1	-4.7	2	278-83	1	P	C4	18 NOV 87	
20 NOV 87	0950	1739.5	-7.1	2	556-85	1	P	C4	08 DEC 87	
04 DEC 87	1450	1750.7	-7.5	2	238-87	1	P	C4	31 DEC 87	
18 DEC 87	1545	1738.8	3.0	2	290-85	1	P	C4	02 JAN 88	
31 DEC 87	1243	1752.9	4.8	2	236-87	1	P	C4	13 JAN 88	
16 JAN 88	1230	1745.4	1.6	2	562-87	1	P	C4	04 FEB 88	
29 JAN 88	1143	1731.2	-.4	2	242-86	1	P	C4	19 FEB 88	
12 FEB 88	0953	1723.6	-11.5	3	246-87	1	P	C4	26 FEB 88	
29 FEB 88	1140	1732.7	-2.0	2	126-87	1	P	C4	10 MAR 88	
14 MAR 88	9999	1735.8	4.8	2	268-87	1	P	C4	24 MAR 88	
25 MAR 88	1600	1731.2	1.9	2	174-85	1	P	C4	12 APR 88	
08 APR 88	1120	1752.9	-.4	2	266-85	1	P	C4	18 APR 88	
29 APR 88	1430	1757.7	-5.8	2	318-86	1	P	C4	16 MAY 88	
13 MAY 88	0938	1738.4	5.5	2	346-85	1	P	C4	23 MAY 88	
27 MAY 88	1402	1736.7	-7.3	2	704-85	1	P	C4	15 JUN 88	
15 JUN 88	1108	1791.1	-9.5	2	190-85	1	P	C4	28 JUN 88	+
01 JUL 88	0913	1707.8	-4.6	2	500-85	1	P	C4	18 JUL 88	
20 JUL 88	1405	1699.5	-7.2	2	122-87	1	P	C4	11 AUG 88	
12 AUG 88	1404	1702.1	.7	2	592-85	1	P	C4	09 SEP 88	
02 SEP 88	1304	1699.6	-5.1	2	113-87	1	P	C4	16 SEP 88	
17 SEP 88	1217	1738.7	-1.4	2	118-87	1	P	C4	28 SEP 88	
30 SEP 88	1235	1749.8	3.3	2	356-85	1	P	C4	11 OCT 88	
14 OCT 88	1425	1750.5	18.0	3	288-86	1	P	C4	02 NOV 88	

Pt. Barrow, Alaska (BRW)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
15 JAN 86	0542	1738.1	.8	2	2836-85	1	P	C4	03 FEB 86	
21 JAN 86	2335	1746.9	-1.0	2	2832-85	1	P	C4	03 FEB 86	
05 FEB 86	0059	1761.7	-1.3	2	2838-85	1	P	C4	18 FEB 86	
19 FEB 86	0050	1781.3	-2.4	2	2836-85	1	P	C4	27 FEB 86	
25 FEB 86	2142	1763.0	-4.4	2	2862-85	1	P	C4	14 MAR 86	
04 MAR 86	0345	1791.0	1.5	2	2893-85	6	P	C4	14 MAR 86	
12 MAR 86	0247	1793.1	-2.1	2	2804-85	1	P	C4	20 APR 86	
21 MAR 86	0040	1777.4	1.4	2	2888-85	1	P	C4	01 APR 86	
02 APR 86	0119	1761.1	-5.9	2	2812-85	1	P	C4	16 APR 86	
08 APR 86	2041	1774.2	1.3	2	2852-85	1	P	C4	18 APR 86	
15 APR 86	2246	1752.3	4.2	2	2864-85	1	P	C4	22 APR 86	
28 APR 86	2345	1753.8	.3	2	2818-85	1	P	C4	09 MAY 86	
04 MAY 86	2250	1743.5	-5.8	2	2846-85	1	P	C4	09 MAY 86	
28 MAY 86	0030	1729.2	3.4	2	2855-85	6	P	C4	12 JUN 86	
03 JUN 86	2220	1730.7	2.7	2	2867-85	6	P	C4	12 JUN 86	
03 JUN 86	2220	1728.2		1	2868-85	1	P	C4	12 JUN 86	
11 JUN 86	0045	1728.4		1	2803-85	6	P	C4	07 AUG 86	
11 JUN 86	0045	1729.8		1	2804-85	1	P	C4	07 AUG 86	
21 JUN 86	0023	1719.9	-3.0	2	2849-85	6	P	C4	22 JUL 86	
21 JUN 86	0023	1722.9	4.6	2	2850-85	1	P	C4	08 JUL 86	
27 JUN 86	2155	1740.8	1.3	2	2882-85	1	P	C4	08 JUL 86	
03 JUL 86	2040	1740.0	5.5	2	2865-85	6	P	C4	22 JUL 86	
03 JUL 86	2040	1744.3	-1.2	2	2866-85	1	P	C4	22 JUL 86	
16 JUL 86	0120	1714.7	1.7	2	2841-85	6	P	C4	30 JUL 86	
16 JUL 86	0120	1724.9	4.4	2	2842-85	1	P	C4	30 JUL 86	
23 JUL 86	0126	1719.2		1	2863-85	6	P	C4	07 AUG 86	
23 JUL 86	0126	1718.9		1	2864-85	1	P	C4	07 AUG 86	
05 AUG 86	2135	1714.2		1	2877-85	6	P	C4	08 AUG 86	
05 AUG 86	2135	1709.1		1	2878-85	1	P	C4	08 AUG 86	
13 AUG 86	0005	1741.5		1	2805-85	6	P	C4	24 AUG 86	
13 AUG 86	0005	1740.8		1	2806-85	1	P	C4	24 AUG 86	
20 AUG 86	0040	1717.5	-2.0	2	2816-85	1	P	C4	30 SEP 86	
02 SEP 86	2356	1724.3	5.2	2	2866-85	1	P	C4	18 SEP 86	
09 SEP 86	0105	1731.5	-3.2	2	2818-85	1	P	C4	18 SEP 86	
18 SEP 86	2030	1791.4	-2.6	2	2804-85	1	P	C4	30 SEP 86	
27 SEP 86	2110	1893.8	10.4	2	2842-85	1	P	C4	08 OCT 86	+
10 OCT 86	2350	1771.1	.7	2	2888-85	1	P	C4	20 OCT 86	
17 OCT 86	2252	1906.2	1.9	2	266-83	1	P	C4	22 OCT 86	+
24 OCT 86	2246	1824.8	-3.3	2	106-85	1	P	C4	14 NOV 86	
30 OCT 86	2330	1817.2	-3.5	2	171-83	1	P	C4	14 NOV 86	
15 NOV 86	0040	1744.8	4.0	2	1650-82	1	P	C4	29 DEC 86	
22 NOV 86	0127	1785.3	13.3	2	364-85	1	P	C4	08 DEC 86	
22 NOV 86	0128	1787.4		1	364-85	1	P	C4	09 DEC 86	
29 NOV 86	0032	1761.9	-3.3	2	848-83	1	P	C4	22 DEC 86	
05 DEC 86	0020	1766.5	10.5	2	962-83	1	P	C4	30 DEC 86	
12 DEC 86	2355	1756.3	-5.2	2	1304-82	1	P	C4	30 DEC 86	
20 DEC 86	0100	1757.9	-3.7	2	1114-82	1	P	C4	30 DEC 86	
09 JAN 87	2310	1867.4	3.9	2	292-85	1	P	C4	15 JAN 87	+
17 JAN 87	9999	1741.3	2.2	2	502-83	1	P	C4	03 FEB 87	
24 JAN 87	0052	1780.0	.1	2	12-85	1	P	C4	03 FEB 87	
29 JAN 87	2200	1763.5	-.2	2	506-83	1	P	C4	03 FEB 87	
07 FEB 87	0130	1816.2	3.9	2	398-85	1	P	C4	18 FEB 87	+
19 FEB 87	0040	1785.3	4.7	2	292-85	1	P	C4	04 MAR 87	
28 FEB 87	0220	1774.3	10.5	3	162-83	1	P	C4	13 MAR 87	
07 MAR 87	0233	1751.7	-.5	2	264-83	1	P	C4	13 MAR 87	
13 MAR 87	0123	1798.9	1.8	2	38-85	1	P	C4	24 MAR 87	
18 MAR 87	2332	1791.5	-4.7	2	506-83	1	P	C4	25 MAR 87	
27 MAR 87	2358	1759.6	-2.7	2	312-83	1	P	C4	02 APR 87	
03 APR 87	0225	1769.3	3.6	2	2-83	1	P	C4	22 APR 87	
10 APR 87	0200	1763.5	9.2	2	542-85	1	P	C4	21 APR 87	
21 APR 87	0210	1762.0	-3.5	2	1586-82	1	P	C4	28 APR 87	
02 MAY 87	0130	1756.9	-.4	2	360-85	1	P	C4	13 MAY 87	
09 MAY 87	0127	1762.2	5.0	2	62-85	1	P	C4	21 MAY 87	
09 MAY 87	0128	1760.5	-1.1	2	62-85	1	P	C4	01 JUN 87	

Pt. Barrow, Alaska (BRW)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
19 MAY 87	0205	1744.9	5.3	2	342-82	1	P	C4	26 MAY 87	
27 MAY 87	0143	1742.3	-4.9	2	795-85	1	P	C4	09 JUN 87	
07 JUN 87	0115	1732.1	-7.8	2	942-83	1	P	C4	18 JUN 87	
16 JUN 87	0750	1733.1	-5.9	2	34-85	1	P	C4	23 JUN 87	
27 JUN 87	0115	1734.3	.4	2	162-83	1	P	C4	08 JUL 87	
01 JUL 87	2045	1718.1	.4	2	392-85	1	P	C4	08 JUL 87	
14 JUL 87	0045	1749.0	1.6	2	510-83	1	P	C4	22 JUL 87	
26 JUL 87	0140	1744.2	-.3	2	748-85	1	P	C4	12 AUG 87	+
01 AUG 87	2320	1740.5		1	40-85	1	P	C4	11 AUG 87	
07 AUG 87	2357	1738.4	6.6	2	1546-82	1	P	C4	04 SEP 87	
12 AUG 87	2315	1753.9	1.8	2	288-85	1	P	C4	02 SEP 87	
23 AUG 87	0120	1732.7	1.6	2	900-83	1	P	C4	03 SEP 87	+
29 AUG 87	2355	1747.4	7.3	2	826-83	1	P	C4	03 SEP 87	+
05 SEP 87	2250	1753.3	5.3	2	410-85	1	P	C4	15 SEP 87	
15 SEP 87	1945	1801.1	1.6	2	880-83	1	P	C4	24 SEP 87	+
19 SEP 87	1957	1762.9	-4.2	2	446-85	1	P	C4	30 SEP 87	
27 SEP 87	2325	1775.2	3.9	2	120-85	1	P	C4	06 OCT 87	
03 OCT 87	2254	1756.6	1.7	2	600-83	1	P	C4	08 OCT 87	
10 OCT 87	2250	1841.5	-5.1	2	358-85	1	P	C4	27 OCT 87	+
16 OCT 87	2346	1921.7	-3.9	2	240-86	1	P	C4	26 OCT 87	+
20 OCT 87	2333	1756.9	2.2	2	198-85	1	P	C4	27 OCT 87	
31 OCT 87	0255	1761.9	7.5	2	610-85	1	P	C4	09 NOV 87	
09 NOV 87	0418	1754.9	2.8	2	36-85	1	P	C4	17 NOV 87	
15 NOV 87	2354	1770.9	5.1	2	288-87	1	P	C4	24 NOV 87	
20 NOV 87	2350	1769.5	-6.0	2	348-85	1	P	C4	08 DEC 87	
28 NOV 87	2318	1775.8	3.0	2	140-85	1	P	C4	08 DEC 87	
07 DEC 87	0018	1776.1	6.3	2	130-85	1	P	C4	31 DEC 87	
13 DEC 87	0101	1823.2	2.5	2	164-85	1	P	C4	31 DEC 87	+
21 DEC 87	0045	1783.3	-12.0	3	420-85	1	P	C4	02 JAN 88	
30 DEC 87	0230	1757.2	-6.3	2	286-87	1	P	C4	06 JAN 88	
04 JAN 88	0130	1763.7	.4	2	264-87	1	P	C4	07 JAN 88	
09 JAN 88	2348	1770.9	3.3	2	254-85	1	P	C4	19 JAN 88	
16 JAN 88	2355	1831.2	-.9	2	364-85	1	P	C4	26 JAN 88	
22 JAN 88	2342	1786.6	8.2	2	260-87	1	P	C4	03 FEB 88	
01 FEB 88	2355	1787.8	-3.1	2	556-87	1	P	C4	19 FEB 88	
08 FEB 88	2340	1975.3	-4.0	2	418-85	1	P	C4	19 FEB 88	+
16 FEB 88	2337	1853.6		1	324-86	1	P	C4	24 FEB 88	
16 FEB 88	2337	1850.9		1	324-86	1	P	C4	24 FEB 88	
22 FEB 88	2352	1793.8	4.8	2	280-85	1	P	C4	29 FEB 88	
01 MAR 88	0205	1805.5	-.2	2	276-85	1	P	C4	10 MAR 88	
05 MAR 88	2240	1778.4	4.6	2	416-86	1	P	C4	10 MAR 88	
12 MAR 88	0002	1796.5	-4.5	2	532-87	1	P	C4	23 MAR 88	
21 MAR 88	2147	1783.4	-2.9	2	520-87	1	P	C4	24 MAR 88	
25 MAR 88	1728	1794.6	-1.7	2	562-87	1	P	C4	11 APR 88	
28 MAR 88	2155	1788.8	-3.8	2	219-85	1	P	C4	11 APR 88	
09 APR 88	1958	1844.7	1.2	2	746-85	1	P	C4	18 APR 88	+
16 APR 88	2053	1774.6	-6.0	2	146-85	1	P	C4	22 APR 88	
23 APR 88	1950	1771.9	-9.2	2	330-85	1	P	C4	04 MAY 88	
07 MAY 88	0000	1770.3	3.0	2	28-85	1	P	C4	17 MAY 88	
14 MAY 88	2202	1763.4	-2.0	2	328-86	1	P	C4	23 MAY 88	
21 MAY 88	2117	1750.2	-2.5	2	558-87	1	P	C4	01 JUN 88	
28 MAY 88	2235	1758.5	-8.4	2	798-85	1	P	C4	14 JUN 88	
04 JUN 88	2217	1750.6	2.3	2	101-87	1	P	C4	14 JUN 88	+
11 JUN 88	2149	1742.5	-6.8	2	788-85	1	P	C4	20 JUN 88	
20 JUN 88	0126	1742.0	-.9	2	152-85	1	P	C4	22 JUN 88	+
26 JUN 88	2140	1740.8	.9	2	54-85	1	P	C4	01 JUL 88	
10 JUL 88	2240	1756.4	-12.4	3	360-85	1	P	C4	18 JUL 88	
11 JUL 88	2140	1731.4	-7.3	2	346-86	1	P	C4	12 JUL 88	
17 JUL 88	2315	1732.9	4.2	2	548-87	1	P	C4	11 AUG 88	
24 JUL 88	2225	1743.4	-3.0	2	2071-87	3	P	C4	10 AUG 88	
24 JUL 88	2225	1747.4	-2.2	2	2072-87	3	P	C4	10 AUG 88	
25 JUL 88	0007	1748.1	.3	2	408-86	1	P	C4	16 AUG 88	
31 JUL 88	2350	1734.6	-1.5	2	528-87	1	P	C4	10 AUG 88	
08 AUG 88	0126	1775.9	-8.7	2	320-86	1	P	C4	17 AUG 88	+
12 AUG 88	2000	1742.3	-2.4	2	701-85	1	P	C4	18 AUG 88	

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
21 AUG 88	2335	1738.9	-1.0	2	552-87	1	P	C4	30 AUG 88	
27 AUG 88	2340	1743.1	-3.2	2	564-87	1	P	C4	09 SEP 88	
06 SEP 88	0145	1766.4	9.0	2	41-85	1	P	C4	19 SEP 88	
06 SEP 88	0145	1763.8		1	42-85	1	P	C4	16 SEP 88	
11 SEP 88	0245	1770.1	-.8	2	546-85	1	P	C4	19 SEP 88	
17 SEP 88	2304	1929.3	2.9	2	82-81	1	P	C4	28 SEP 88	+
06 OCT 88	9999	1770.5	-.8	2	408-86	1	P	C4	20 OCT 88	
17 OCT 88	0050	1782.0	1.7	2	282-85	1	P	C4	20 OCT 88	
20 OCT 88	2257	1773.9	1.9	2	20-81	1	P	C4	27 OCT 88	
20 OCT 88	2315	1770.8	-6.8	2	2236-87	3	P	C4	27 OCT 88	
30 OCT 88	2310	1777.4	1.0	2	89-81	1	P	C4	09 NOV 88	
30 OCT 88	2320	1771.5	2.8	2	2222-87	3	P	C4	17 NOV 88	
07 NOV 88	0303	1782.8	-5.5	2	352-81	1	P	C4	17 NOV 88	
07 NOV 88	0303	1778.2	.9	2	2160-87	3	P	C4	17 NOV 88	
20 NOV 88	9999	1776.8	3.1	2	416-81	1	P	C4	01 DEC 88	
28 NOV 88	0203	1795.0	-1.3	2	68-81	1	P	C4	12 DEC 88	
28 NOV 88	0210	1796.9		1	2238-87	3	P	C4	14 DEC 88	
28 NOV 88	0210	1797.2	-5.5	3	2238-87	3	P	C4	14 DEC 88	
03 DEC 88	0047	1800.5	-8.1	2	2240-87	3	P	C4	14 DEC 88	
11 DEC 88	0044	1802.6	-3.9	2	88-81	1	P	C4	21 DEC 88	
17 DEC 88	0045	1788.4	-3.6	2	662-81	1	P	C4	05 JAN 89	
17 DEC 88	0055	1788.1	-8.4	2	2254-87	3	P	C4	05 JAN 89	
29 DEC 88	0139	1826.6	1.0	2	512-81	1	P	C4	05 JAN 89	
29 DEC 88	0150	1822.5		1	2256-87	3	P	C4	06 JAN 89	

Cold Bay, Alaska (CBA)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
05 JAN 86	1905	1725.1	1.8	2	628-83	1	P	C3	09 JAN 86	
19 JAN 86	1940	1753.5	-6.2	2	814-83	1	P	C4	03 FEB 86	
26 JAN 86	1945	1773.1	-2.2	2	1650-82	1	P	C4	04 FEB 86	
02 FEB 86	1830	1742.0	-1.7	2	724-85	1	P	C4	05 FEB 86	
09 FEB 86	1730	1732.5	.1	2	40-85	1	P	C4	13 FEB 86	
16 FEB 86	1900	1727.5		1	1220-82	1	P	C4	10 MAR 86	
23 FEB 86	1800	1736.9	2.9	2	834-83	1	P	C4	13 MAR 86	
03 MAR 86	1900	1751.2		1	862-83	1	P	C4	10 MAR 86	
16 MAR 86	2200	1729.8	3.0	2	1164-82	1	P	C4	21 MAR 86	
23 MAR 86	1800	1735.4	-6.1	2	850-82	1	P	C4	01 APR 86	
30 MAR 86	2030	1738.6	-14.0	3	12-85	1	P	C4	18 APR 86	
06 APR 86	1715	1746.5	-3.6	2	1178-82	1	P	C4	20 APR 86	
13 APR 86	1805	1751.4	4.0	2	210-83	1	P	C4	20 APR 86	
20 APR 86	1730	1738.1	-.1	2	794-83	1	P	C4	24 APR 86	
27 APR 86	1900	1738.3	6.4	2	1388-82	1	P	C4	01 MAY 86	
04 MAY 86	1630	1749.6	6.1	2	1242-82	1	P	C4	09 MAY 86	
12 MAY 86	1730	1741.9	2.1	2	388-85	1	P	C4	31 MAY 86	
18 MAY 86	1840	1731.8	3.8	2	1668-82	1	P	C4	28 MAY 86	
01 JUN 86	2210	1729.9	1.5	2	60-83	1	P	C4	10 JUN 86	
08 JUN 86	2000	1736.7	4.3	2	798-82	1	P	C4	12 JUN 86	
15 JUN 86	1725	1728.8	8.8	2	666-83	1	P	C4	07 AUG 86	
22 JUN 86	1700	1729.8	-.2	2	220-85	1	P	C4	05 AUG 86	
29 JUN 86	2000	1718.1	5.3	2	780-83	1	P	C4	08 JUL 86	
06 JUL 86	1915	1704.9	-9.3	2	856-83	1	P	C4	30 JUL 86	
13 JUL 86	1725	1697.4	1.7	2	1602-82	1	P	C4	23 JUL 86	
03 AUG 86	1800	1718.0	-4.3	2	192-85	1	P	C4	18 SEP 86	
10 AUG 86	1700	1722.1	-3.9	2	296-83	1	P	C4	19 SEP 86	
17 AUG 86	1741	1713.8		1	72-85	1	P	C4	19 SEP 86	
24 AUG 86	1715	1712.9		1	50-85	1	P	C4	23 SEP 86	
31 AUG 86	1900	1740.9	-4.3	2	868-83	1	P	C4	18 SEP 86	
07 SEP 86	1545	1743.4	-2.8	2	1192-82	1	P	C4	11 SEP 86	
14 SEP 86	1730	1747.3	-7.6	2	1304-82	1	P	C4	19 SEP 86	
21 SEP 86	1900	1773.4	5.9	2	114-83	1	P	C4	30 SEP 86	
28 SEP 86	1825	1761.1	-2.3	2	284-85	1	P	C4	14 OCT 86	
05 OCT 86	1845	1752.0	3.1	2	342-85	1	P	C4	08 OCT 86	
12 OCT 86	1640	1740.1	9.6	2	904-83	1	P	C4	22 OCT 86	
23 OCT 86	1600	1777.7	11.4	3	292-82	1	P	C4	12 NOV 86	
02 NOV 86	1800	1742.4	-.3	2	308-85	1	P	C4	14 NOV 86	
09 NOV 86	1730	1720.9	-.5	2	372-85	1	P	C4	14 NOV 86	
27 NOV 86	1915	1724.5	-3.9	2	316-85	1	P	C4	10 DEC 86	
04 DEC 86	1858	1755.6	2.7	2	418-83	1	P	C4	11 DEC 86	
11 DEC 86	2000	1740.4	10.8	3	342-83	1	P	C4	22 DEC 86	
25 DEC 86	1810	1749.7	-2.1	2	1322-82	1	P	C4	30 DEC 86	
02 JAN 87	2140	1742.9	4.4	2	662-83	1	P	C4	08 JAN 87	
11 JAN 87	2006	1752.2	2.1	2	908-83	1	P	C4	15 JAN 87	
18 JAN 87	1745	1740.0	-.3	2	510-85	1	P	C4	22 JAN 87	
25 JAN 87	2030	1748.5	-4.1	2	1546-82	1	P	C4	03 FEB 87	
05 FEB 87	1822	1747.9	4.3	2	348-85	1	P	C4	10 FEB 87	
08 FEB 87	1940	1726.0	-6.6	2	40-85	1	P	C4	18 FEB 87	
13 FEB 87	0000	1743.0	1.8	2	332-85	1	P	C4	18 FEB 87	
26 FEB 87	1833	1740.6	-6.7	2	174-83	1	P	C4	04 MAR 87	
12 MAR 87	1820	1727.3	-4.6	2	502-83	1	P	C4	24 MAR 87	
19 MAR 87	2015	1758.3	-4.0	2	1652-82	1	P	C4	25 MAR 87	
26 MAR 87	1746	1761.1	-2.3	2	1308-82	1	P	C4	02 APR 87	
02 APR 87	1830	1748.3	7.7	2	188-85	1	P	C4	08 APR 87	
09 APR 87	1700	1760.2	-3.1	3	558-85	1	P	C4	21 APR 87	
12 APR 87	1820	1745.0	-1.9	2	66-85	1	P	C4	21 APR 87	
30 APR 87	1930	1760.6	2.6	2	618-85	1	P	C4	05 MAY 87	
07 MAY 87	1735	1749.9	-.6	2	794-85	1	P	C4	13 MAY 87	
14 MAY 87	1730	1748.1	-2.6	2	68-85	1	P	C4	21 MAY 87	
21 MAY 87	1730	1742.3	-.7	2	380-85	1	P	C4	01 JUN 87	
28 MAY 87	1710	1743.7	8.4	2	624-85	1	P	C4	09 JUN 87	
04 JUN 87	1937	1734.9	-.6	2	796-83	1	P	C4	16 JUN 87	
11 JUN 87	1900	1748.4	-1.6	2	908-83	1	P	C4	18 JUN 87	

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
18 JUN 87	1845	1732.2	-2.1	2	710-85	1	P	C4	30 JUN 87	
25 JUN 87	1610	1730.9	-1.9	2	10-85	1	P	C4	08 JUL 87	
02 JUL 87	2110	1735.5	-6.8	2	26-85	1	P	C4	13 JUL 87	
12 JUL 87	9999	1727.8	-.5	2	798-82	1	P	C4	22 JUL 87	
02 AUG 87	1900	1707.9	3.0	2	736-85	1	P	C4	11 AUG 87	
09 AUG 87	1625	1720.4	-6.9	2	11-85	1	P	C4	04 SEP 87	
16 AUG 87	2210	1718.7	1.0	2	804-85	1	P	C4	03 SEP 87	
23 AUG 87	1800	1895.4	-6.6	2	822-83	1	P	C4	04 SEP 87	+
30 AUG 87	1726	1751.5	-7.5	2	967-83	1	P	C4	03 SEP 87	
07 SEP 87	1800	1755.9	7.6	2	1078-82	1	P	C4	15 SEP 87	
27 SEP 87	2130	1759.0	15.1	3	66-85	1	P	C4	06 OCT 87	
04 OCT 87	1825	1765.6	.6	2	222-86	1	P	C4	08 OCT 87	
11 OCT 87	2037	1770.7	1.3	2	126-87	1	P	C4	26 OCT 87	
18 OCT 87	1700	1765.8	.1	2	30-85	1	P	C4	28 OCT 87	
25 OCT 87	1925	1758.2	4.7	2	584-83	1	P	C4	28 OCT 87	
05 NOV 87	2100	1755.0	-5.5	2	698-85	1	P	C4	10 NOV 87	
16 NOV 87	1825	1755.0	-4.2	2	32-85	1	P	C4	24 NOV 87	
22 NOV 87	1900	1757.2	-5.1	2	121-87	1	P	C4	08 DEC 87	
22 NOV 87	1900	1745.2		1	122-87	1	P	C4	08 DEC 87	
06 DEC 87	2030	1765.3	-3.0	2	266-87	1	P	C4	02 JAN 88	
10 DEC 87	2130	1758.0	-1.1	2	545-87	1	P	C4	31 DEC 87	
10 DEC 87	2130	1765.6		1	546-87	1	P	C4	31 DEC 87	
27 DEC 87	1820	1751.4	7.8	2	36-85	1	P	C4	02 JAN 88	
07 JAN 88	2030	1763.1	5.9	2	962-83	1	P	C4	13 JAN 88	
17 JAN 88	2030	1752.8	3.4	2	294-86	1	P	C4	26 JAN 88	
23 JAN 88	2020	1784.2	-8.3	2	416-85	1	P	C4	03 FEB 88	
31 JAN 88	2130	1742.8	5.1	2	270-87	1	P	C4	04 FEB 88	
07 FEB 88	2010	1746.1	6.5	2	412-85	1	P	C4	19 FEB 88	
14 FEB 88	2055	1771.7	8.4	2	222-86	1	P	C4	26 FEB 88	
22 FEB 88	1820	1767.3	10.4	2	330-86	1	P	C4	01 MAR 88	
03 MAR 88	2135	1760.3	3.1	2	316-85	1	P	C4	10 MAR 88	
17 MAR 88	2220	1769.3	6.1	2	354-85	1	P	C4	24 MAR 88	
01 APR 88	2030	1768.0	4.8	2	454-85	1	P	C4	11 APR 88	
10 APR 88	2100	1746.5	-9.5	2	390-85	1	P	C4	13 APR 88	
17 APR 88	1745	1763.5	-2.2	2	378-86	1	P	C4	29 APR 88	
24 APR 88	2030	1775.2	2.3	2	544-85	1	P	C4	04 MAY 88	
01 MAY 88	2040	1762.9	-6.4	2	376-86	1	P	C4	13 MAY 88	
12 MAY 88	2000	1762.5	-17.3	3	76-87	1	P	C4	17 MAY 88	
15 MAY 88	2000	1764.0	-2.7	2	89-85	1	P	C4	23 MAY 88	
15 MAY 88	2000	1765.4	-12.2	2	90-85	1	P	C4	23 MAY 88	
22 MAY 88	2110	1754.5	10.6	3	88-87	1	P	C4	01 JUN 88	
29 MAY 88	2200	1753.3	-6.0	2	280-87	1	P	C4	14 JUN 88	
05 JUN 88	1800	1742.1	-1.4	2	672-85	1	P	C4	13 JUN 88	
09 JUN 88	2025	1751.9	1.8	2	174-85	1	P	C4	20 JUN 88	
19 JUN 88	2045	1743.7	-2.7	2	308-86	1	P	C4	28 JUN 88	
03 JUL 88	2040	1728.0	2.9	2	510-85	1	P	C4	13 JUL 88	
10 JUL 88	2247	1742.1	-4.6	2	412-86	1	P	C4	18 JUL 88	
21 JUL 88	2100	1756.2	2.9	2	560-87	1	P	C4	16 AUG 88	
28 JUL 88	2110	1742.9	-3.2	2	574-87	1	P	C4	10 AUG 88	
07 AUG 88	2135	1737.5	.2	2	300-87	1	P	C4	18 AUG 88	
14 AUG 88	2000	1770.2	7.0	2	124-85	1	P	C4	26 AUG 88	
21 AUG 88	2115	1747.0	.6	2	290-87	1	P	C4	30 AUG 88	
04 SEP 88	1630	1742.3	-3.1	2	108-87	1	P	C4	16 SEP 88	
15 SEP 88	2030	1744.5	-1.8	2	370-86	1	P	C4	22 SEP 88	
25 SEP 88	1800	1758.3	5.1	2	220-86	1	P	C4	29 SEP 88	
06 OCT 88	2015	1762.9	-2.3	2	274-86	1	P	C4	18 OCT 88	
14 OCT 88	2130	1775.3	-5.0	2	110-87	1	P	C4	27 OCT 88	
27 OCT 88	2045	1748.9	-2.8	2	64-81	1	P	C4	04 NOV 88	
06 NOV 88	2040	1776.6	2.9	2	110-81	1	P	C4	10 NOV 88	
17 NOV 88	2030	1777.4	10.4	2	330-81	1	P	C4	22 NOV 88	
24 NOV 88	1945	1761.7	.1	2	188-81	1	P	C4	01 DEC 88	
08 DEC 88	2210	1748.6	-2.8	2	434-81	1	P	C4	21 DEC 88	
12 DEC 88	2030	1769.7	13.0	3	436-81	1	P	C4	21 DEC 88	
15 DEC 88	2015	1780.0	-5.8	2	522-81	1	P	C4	06 JAN 89	
18 DEC 88	2045	1768.1	.1	2	510-81	1	P	C4	06 JAN 89	

Cold Bay, Alaska (CBA)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
22 DEC 88	2210	1773.1	-8.7	2	106-81	1	P	C4	05 JAN 89	
25 DEC 88	0100	1750.7	-6.0	2	28-81	1	P	C4	05 JAN 89	
29 DEC 88	2005	1772.4		1	639-81	1	P	C4	31 JAN 89	
29 DEC 88	2005	1773.4		1	640-81	1	P	C4	23 JAN 89	

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
09 JAN 86	0126	1588.6	1.0	2	1410-82	1	N	C4	24 MAR 86	
13 JAN 86	0336	1583.9	-5.3	2	696-83	1	P	C4	21 MAR 86	
13 JAN 86	0355	1586.7	5.5	2	902-83	1	N	C4	24 MAR 86	
03 FEB 86	0321	1581.4	7.5	3	958-83	1	P	C4	11 MAR 86	
03 FEB 86	0345	1580.0	-.1	2	754-83	1	N	C4	11 MAR 86	
05 FEB 86	0414	1581.6	4.8	2	1820-82	1	P	C4	11 MAR 86	
05 FEB 86	9999	1585.8	-2.4	2	1644-82	1	N	C4	11 MAR 86	
10 FEB 86	0152	1585.4		1	772-83	1	P	C4	10 MAR 86	
10 FEB 86	9999	1576.6	-.2	2	704-83	1	N	C4	10 MAR 86	
10 FEB 86	9999	1577.7	-.7	2	704-83	1	N	C4	21 MAR 86	
19 FEB 86	0005	1586.4	-3.8	2	128-83	1	N	C4	21 MAR 86	
19 FEB 86	0108	1579.6	4.6	2	994-81	1	P	C4	21 MAR 86	
07 MAR 86	0300	1577.7	6.2	2	613-83	1	P	C4	01 APR 86	
07 MAR 86	0345	1575.6	.7	2	543-85	1	N	C4	01 APR 86	
10 MAR 86	0242	1581.7	6.0	3	198-85	1	P	C4	18 APR 86	
10 MAR 86	0244	1581.1	-5.2	3	1146-82	1	N	C4	18 APR 86	
17 MAR 86	0234	1585.7	4.8	2	1662-82	1	P	C4	18 APR 86	
25 MAR 86	0455	1590.1	-.9	2	798-82	1	P	C4	14 MAY 86	
25 MAR 86	0455	1583.5	-.2	2	860-83	1	N	C4	14 MAY 86	
03 APR 86	0120	1587.1	-.2	2	362-82	1	P	C4	14 MAY 86	
03 APR 86	0126	1580.6		1	836-82	1	N	C4	14 MAY 86	
11 APR 86	9999	1583.2	-1.4	2	26-85	1	N	C4	14 MAY 86	
11 APR 86	9999	1585.8	.8	2	34-85	1	P	C4	14 MAY 86	
18 APR 86	0118	1586.0	1.9	2	710-85	1	N	C4	14 MAY 86	
18 APR 86	0122	1586.8	-2.9	2	508-82	1	P	C4	14 MAY 86	
24 APR 86	0208	1587.3	-1.7	2	6-85	1	P	C4	14 MAY 86	
24 APR 86	0212	1585.7	2.3	2	36-83	1	N	C4	14 MAY 86	
24 MAY 86	0432	1597.8	1.6	2	762-83	1	N	C4	23 JUL 86	
28 MAY 86	0159	1596.2	-.4	2	37-85	1	P	C4	10 AUG 86	
28 MAY 86	0200	1604.7	-10.6	3	932-83	1	N	C4	10 AUG 86	
03 JUN 86	0420	1597.8	-4.8	2	1150-82	1	P	C4	20 SEP 86	
03 JUN 86	0421	1592.5	4.5	2	1280-82	1	N	C4	20 SEP 86	
10 JUN 86	0145	1597.2	-1.5	2	44-83	1	P	C4	30 JUL 86	
10 JUN 86	0146	1596.9	1.2	2	897-83	1	N	C4	30 JUL 86	
18 JUN 86	0055	1600.2	3.2	2	636-83	1	N	C4	29 JUL 86	
18 JUN 86	0059	1600.9	-4.5	2	1312-82	1	P	C4	29 JUL 86	
23 JUN 86	0140	1607.7	-2.8	2	192-83	1	P	C4	30 JUL 86	
23 JUN 86	0150	1604.5	-4.2	2	272-85	1	N	C4	30 JUL 86	
09 JUL 86	0055	1609.8	1.4	2	1552-82	1	N	C4	18 SEP 86	
09 JUL 86	0145	1598.7	-2.5	2	844-83	1	P	C4	18 SEP 86	
18 JUL 86	0155	1608.2	5.3	2	946-83	1	P	C4	16 SEP 86	
18 JUL 86	0200	1612.6	1.4	2	60-85	1	N	C4	20 SEP 86	
24 JUL 86	0145	1609.5	2.9	2	852-83	1	P	C4	18 SEP 86	
24 JUL 86	0147	1609.9	7.1	3	1162-82	1	N	C4	18 SEP 86	
31 JUL 86	0150	1616.9	-4.8	2	1198-82	1	P	C4	16 SEP 86	
31 JUL 86	0155	1614.0	-8.7	2	630-81	1	N	C4	16 SEP 86	
17 AUG 86	0200	1614.3	1.8	2	276-82	1	P	C4	20 SEP 86	
17 AUG 86	0204	1615.1	-3.6	2	1210-82	1	N	C4	20 SEP 86	
26 AUG 86	0225	1611.5	0.0	2	348-85	1	P	C4	30 SEP 86	
26 AUG 86	0230	1613.0	11.0	4	366-82	1	N	C4	30 SEP 86	
10 SEP 86	0445	1617.4	-2.3	2	1322-82	1	P	C4	08 OCT 86	
29 SEP 86	0513	1610.0	8.9	2	628-85	1	P	C4	14 NOV 86	
07 OCT 86	0440	1617.2	-8.6	2	806-83	1	N	C4	14 NOV 86	
14 OCT 86	0215	1619.8	-3.8	2	332-85	1	P	C4	14 NOV 86	
14 OCT 86	0217	1618.9	-1.2	2	192-83	1	N	C4	14 NOV 86	
20 OCT 86	0255	1609.4	6.0	2	370-85	1	P	C4	09 DEC 86	
11 NOV 86	0419	1611.1	-1.6	2	46-85	1	N	C4	11 DEC 86	
18 NOV 86	0045	1616.8	2.1	2	522-83	1	P	C4	29 DEC 86	
18 NOV 86	0052	1611.7	-4.8	2	320-85	1	N	C4	29 DEC 86	
24 NOV 86	0050	1612.0	4.5	2	362-85	1	P	C4	11 DEC 86	
24 NOV 86	0052	1610.7	-4.9	2	1742-82	1	N	C4	11 DEC 86	
08 DEC 86	0240	1609.7	4.3	2	308-83	1	P	C4	20 JAN 87	
08 DEC 86	0246	1607.2	.3	2	402-83	1	N	C4	20 JAN 87	
17 DEC 86	0236	1605.5	1.9	2	222-85	1	P	C4	20 JAN 87	

Cape Grim, Tasmania (CGO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
17 DEC 86	0239	1603.3	-3.2	2	642-83	1	N	C4	20 JAN 87	
22 DEC 86	0411	1607.4	2.3	2	388-83	1	P	C4	18 FEB 87	
22 DEC 86	0415	1603.8	3.0	2	404-83	1	N	C4	18 FEB 87	
08 JAN 87	9999	1598.7	.5	2	1078-82	1	P	C4	18 FEB 87	
08 JAN 87	9999	1599.5	2.0	2	1498-82	1	N	C4	18 FEB 87	
14 JAN 87	0233	1594.5	-6.4	2	898-82	1	P	C4	18 FEB 87	
14 JAN 87	0237	1593.8	-5.4	2	698-83	1	N	C4	18 FEB 87	
19 JAN 87	0235	1595.6		1	1761-82	1	P	C4	18 FEB 87	
19 JAN 87	0238	1595.7	9.7	2	340-85	1	N	C4	18 FEB 87	
03 FEB 87	0325	1598.6	5.6	2	592-85	1	P	C4	04 MAR 87	
03 FEB 87	0335	1590.6	.3	2	46-85	1	N	C4	04 MAR 87	
11 FEB 87	0042	1593.2	.1	2	292-82	1	P	C4	04 MAR 87	
11 FEB 87	0047	1594.5	3.3	2	390-85	1	N	C4	04 MAR 87	
20 FEB 87	0338	1590.0	1.0	2	286-85	1	P	C4	13 MAR 87	
20 FEB 87	0344	1590.7	4.1	2	242-83	1	N	C4	13 MAR 87	
25 FEB 87	0040	1590.7	2.0	2	310-83	1	P	C4	25 MAR 87	
25 FEB 87	0043	1589.7	.7	2	342-82	1	N	C4	25 MAR 87	
10 MAR 87	0000	1594.9	3.9	2	798-82	1	P	C4	02 APR 87	
10 MAR 87	0004	1599.0	-1.2	2	836-85	1	N	C4	02 APR 87	
20 MAR 87	0226	1597.4	7.8	2	348-83	1	P	C4	15 MAY 87	
20 MAR 87	0230	1594.2	1.5	2	1086-82	1	N	C4	15 MAY 87	
30 MAR 87	0441	1596.3	4.3	2	90-85	1	P	C4	21 MAY 87	
30 MAR 87	0445	1600.4	-1.4	2	716-85	1	N	C4	21 MAY 87	
15 APR 87	0141	1599.6	-.1	2	682-83	1	P	C4	21 MAY 87	
18 MAY 87	0358	1609.9	-1.9	2	1241-82	1	P	C4	15 JUN 87	
18 MAY 87	0359	1616.0	-4.1	2	286-85	1	N	C4	15 JUN 87	
25 MAY 87	0133	1614.0	1.3	2	32-85	1	P	C4	09 JUN 87	
25 MAY 87	0136	1611.5	-5.4	2	30-85	1	N	C4	09 JUN 87	
02 JUN 87	0352	1613.6	-1.1	2	46-85	1	P	C4	13 JUL 87	
02 JUN 87	0355	1607.4	6.3	2	892-83	1	N	C4	13 JUL 87	
11 JUN 87	0359	1612.2	0.0	2	744-83	1	N	C4	13 JUL 87	
25 JUN 87	0440	1618.8	5.9	2	588-85	1	P	C4	22 JUL 87	
25 JUN 87	0455	1610.0	-.4	2	296-83	1	N	C4	22 JUL 87	
29 JUN 87	0235	1618.7	-5.5	2	508-83	1	P	C4	06 OCT 87	
29 JUN 87	0242	1614.8	-3.4	2	144-85	1	N	C4	06 OCT 87	
10 JUL 87	0257	1620.2	-.7	2	612-85	1	P	C4	11 SEP 87	
10 JUL 87	0259	1619.2	1.3	2	360-85	1	N	C4	11 SEP 87	
17 JUL 87	0120	1623.4	3.0	2	756-85	1	P	C4	11 SEP 87	
17 JUL 87	0123	1620.0	.5	2	176-85	1	N	C4	11 SEP 87	
31 JUL 87	0203	1620.6	-.4	2	358-85	1	P	C4	11 SEP 87	
31 JUL 87	0206	1617.9	-2.1	2	174-85	1	N	C4	11 SEP 87	
05 AUG 87	0227	1618.2	-4.3	2	192-85	1	P	C4	11 SEP 87	
05 AUG 87	0230	1623.0	-2.5	2	348-83	1	N	C4	11 SEP 87	
10 AUG 87	0226	1623.5	-3.2	2	278-83	1	N	C4	11 SEP 87	
17 AUG 87	0245	1625.7	-4.4	2	512-83	1	P	C4	11 SEP 87	
17 AUG 87	0247	1625.6	-.9	2	1652-82	1	N	C4	11 SEP 87	
02 SEP 87	0531	1626.4	3.5	2	180-85	1	N	C4	08 OCT 87	
08 SEP 87	0456	1627.6	-1.6	2	24-85	1	P	C4	08 OCT 87	
08 SEP 87	0459	1627.4	-2.1	2	356-85	1	N	C4	08 OCT 87	
01 OCT 87	0221	1627.6	2.8	2	72-87	1	N	C4	27 OCT 87	
01 OCT 87	0224	1629.5	.3	2	78-87	1	P	C4	27 OCT 87	
06 OCT 87	0233	1623.1	.5	2	84-87	1	P	C4	27 OCT 87	
06 OCT 87	0241	1629.0	-3.7	2	2-83	1	N	C4	27 OCT 87	
23 OCT 87	0353	1628.8	-3.8	2	288-86	1	P	C4	03 DEC 87	
23 OCT 87	0357	1626.9	4.2	2	418-85	1	N	C4	04 DEC 87	
04 NOV 87	9999	1623.5	6.3	2	486-85	1	N	C4	04 JAN 88	
13 NOV 87	0025	1621.9	2.9	2	620-85	1	P	C4	02 JAN 88	
13 NOV 87	0028	1623.6	-2.0	2	688-85	1	N	C4	02 JAN 88	
24 NOV 87	0331	1625.1	-7.7	2	292-85	1	P	C4	04 JAN 88	
24 NOV 87	0334	1617.2	-3.4	2	680-85	1	N	C4	04 JAN 88	
17 DEC 87	0133	1616.7	-7.0	2	76-87	1	P	C4	08 APR 88	
17 DEC 87	0135	1617.4	-1.7	2	74-87	1	N	C4	11 APR 88	
05 JAN 88	0059	1609.7	4.0	2	602-83	1	N	C4	12 APR 88	
03 FEB 88	0158	1608.4	5.0	2	598-83	1	P	C4	13 APR 88	
03 FEB 88	0159	1604.4	11.1	3	86-87	1	N	C4	13 APR 88	

Cape Grim, Tasmania (CGO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
08 FEB 88	0213	1600.6	-3.0	2	154-85	1	P	C4	12 APR 88	
08 FEB 88	0215	1602.9	3.3	2	114-87	1	N	C4	12 APR 88	
18 FEB 88	0439	1603.3	-.5	2	240-86	1	P	C4	13 APR 88	
18 FEB 88	0442	1595.4	-8.2	2	101-87	1	N	C4	18 APR 88	
14 MAR 88	0312	1605.4	4.2	2	122-85	1	P	C4	19 APR 88	
14 MAR 88	0318	1597.6	7.6	2	46-85	1	N	C4	19 APR 88	
13 APR 88	0614	1602.2	3.6	2	100-87	1	P	C4	23 MAY 88	
26 APR 88	0245	1602.0	-1.2	2	256-85	1	P	C4	23 MAY 88	
26 APR 88	0248	1611.9	-.8	2	510-85	1	N	C4	23 MAY 88	
10 MAY 88	0444	1614.0	-3.3	2	115-85	1	P	C4	15 JUN 88	
10 MAY 88	0450	1613.9	11.1	3	334-85	1	N	C4	15 JUN 88	
28 MAY 88	0515	1620.6	-14.4	3	108-87	1	P	C4	12 JUL 88	
28 MAY 88	0558	1620.2	7.3	2	532-87	1	N	C4	12 JUL 88	
11 JUN 88	0525	1623.7	8.1	2	236-86	1	N	C4	18 JUL 88	
24 JUN 88	0118	1627.2	2.7	2	236-85	1	P	C4	13 JUL 88	
24 JUN 88	0134	1620.4	8.5	2	70-85	1	N	C4	12 JUL 88	
28 JUN 88	0024	1616.6	7.9	2	418-86	1	P	C4	05 AUG 88	
11 JUL 88	0457	1637.3	-8.3	2	674-85	1	P	C4	10 AUG 88	
11 JUL 88	0504	1636.7	3.8	2	670-85	1	N	C4	10 AUG 88	
15 JUL 88	0316	1625.1	-4.7	2	238-86	1	P	C4	10 AUG 88	
15 JUL 88	0325	1626.1	-2.4	2	134-85	1	N	C4	10 AUG 88	
22 JUL 88	0418	1628.6	-5.4	2	592-87	1	P	C4	31 AUG 88	
22 JUL 88	0423	1634.1	-1.9	2	308-87	1	N	C4	31 AUG 88	
26 JUL 88	0449	1630.7	-.7	2	312-87	1	P	C4	31 AUG 88	
01 AUG 88	0528	1636.6	-7.6	2	365-86	1	P	C4	31 AUG 88	
09 AUG 88	0542	1638.0	-2.6	2	312-86	1	P	C4	20 OCT 88	
09 AUG 88	0550	1640.1	5.7	2	308-86	1	N	C4	20 OCT 88	
25 AUG 88	0527	1635.3	-5.8	2	532-87	1	P	C4	24 OCT 88	
25 AUG 88	0531	1636.2	-2.8	2	580-87	1	N	C4	24 OCT 88	
05 SEP 88	0224	1632.0	15.4	3	98-87	1	N	C4	24 OCT 88	
12 SEP 88	0154	1635.7	-1.2	2	420-86	1	P	C4	20 OCT 88	
12 SEP 88	0212	1636.0	.7	2	270-87	1	N	C4	19 OCT 88	
29 SEP 88	0130	1642.1	-7.4	2	368-86	1	P	C4	24 OCT 88	
29 SEP 88	0134	1637.8	7.5	2	294-87	1	N	C4	24 OCT 88	
06 OCT 88	0219	1637.3	2.0	2	348-86	1	P	C4	02 NOV 88	
06 OCT 88	0223	1635.6	-4.9	2	306-85	1	N	C4	02 NOV 88	
06 OCT 88	0456	1641.6	-6.9	2	128-87	1	P	C4	02 NOV 88	
06 OCT 88	0458	1638.7	-8.9	2	498-85	1	N	C4	02 NOV 88	
10 OCT 88	0224	1633.3		1	364-86	1	N	C4	08 NOV 88	
10 OCT 88	0224	1640.2	.4	2	364-86	1	N	C4	09 NOV 88	
12 OCT 88	0248	1638.6	-.4	2	290-85	1	P	C4	10 NOV 88	
17 OCT 88	0322	1638.9	-19.2	3	252-86	1	N	C4	09 NOV 88	
25 OCT 88	0450	1632.7	.8	2	565-87	1	N	C4	22 NOV 88	
31 OCT 88	0351	1632.6	-1.9	2	600-87	1	P	C4	06 JAN 89	
10 NOV 88	0331	1634.7	-8.4	2	105-87	1	P	C4	04 JAN 89	
10 NOV 88	0339	1633.0	2.0	2	162-85	1	N	C4	03 JAN 89	
25 NOV 88	0259	1631.2	-5.0	2	397-85	1	P	C4	04 JAN 89	
25 NOV 88	0312	1631.9	5.8	2	559-87	1	N	C4	04 JAN 89	
29 NOV 88	0109	1633.2	-3.3	2	346-85	1	P	C4	03 JAN 89	
29 NOV 88	0130	1635.7	.9	2	534-87	1	N	C4	03 JAN 89	
05 DEC 88	2314	1628.8	.7	2	154-85	1	P	C4	06 JAN 89	
05 DEC 88	2317	1631.0	-3.1	2	12-85	1	N	C4	06 JAN 89	
19 DEC 88	0159	1632.8	-1.8	2	610-81	1	N	C4	31 JAN 89	
30 DEC 88	0119	1621.8	-4.4	2	608-81	1	P	C4	01 FEB 89	
30 DEC 88	0123	1619.5	-11.7	3	200-81	1	N	C4	31 JAN 89	

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
06 JAN 86	0225	1633.8	-6.0	2	3026-85	5	T	C4	04 FEB 86	
14 JAN 86	0215	1626.7	.8	2	3038-83	5	T	C4	04 FEB 86	
23 FEB 86	0200	1629.3	-5.1	2	3034-85	5	T	C4	24 MAR 86	
09 MAR 86	0155	1629.8	3.5	2	3018-85	5	T	C4	26 MAR 86	
17 MAR 86	0210	1634.1	.3	2	3050-84	5	T	C4	24 MAR 86	
30 MAR 86	0208	1661.1		1	3090-84	5	T	C4	14 MAY 86	
08 APR 86	0120	1656.7	.5	2	3034-83	5	T	C4	14 MAY 86	
28 APR 86	0210	1644.3	4.9	2	3010-85	5	T	C4	14 MAY 86	
07 MAY 86	0140	1628.3	.6	2	3044-84	5	T	C4	14 MAY 86	
16 MAY 86	0140	1626.3	1.7	2	3076-83	5	T	C4	07 JUL 86	
22 MAY 86	0140	1622.6	-4.3	2	3008-85	5	T	C4	07 JUL 86	
30 MAY 86	0130	1606.2		1	3024-84	5	T	C4	07 JUL 86	
06 JUN 86	0142	1620.3	4.8	2	3014-83	5	T	C4	07 JUL 86	
16 JUN 86	0225	1628.1	-3.5	2	3030-85	5	T	C4	30 JUL 86	
23 JUN 86	0225	1628.8		1	3030-84	5	T	C4	30 JUL 86	
30 JUN 86	0157	1623.9	-.3	2	3002-84	5	T	C4	30 JUL 86	
07 JUL 86	0205	1611.9	-1.0	2	3008-84	5	T	C4	30 JUL 86	
14 JUL 86	0120	1620.6	-6.9	2	3082-83	5	T	C4	24 AUG 86	
23 JUL 86	0045	1617.2	.7	2	3032-85	5	T	C4	24 AUG 86	
29 JUL 86	0110	1625.0	-6.7	2	3010-83	5	T	C4	24 AUG 86	
04 AUG 86	0315	1624.0	-1.9	2	3040-83	5	T	C4	24 AUG 86	
11 AUG 86	0212	1622.9	-4.0	2	3038-83	5	T	C4	19 SEP 86	
24 AUG 86	0205	1622.4	-7.6	2	3024-85	5	T	C4	19 SEP 86	
01 SEP 86	0305	1615.6	4.6	2	3012-84	5	T	C4	19 SEP 86	
15 SEP 86	0203	1633.9	-.3	2	3050-83	5	T	C4	20 OCT 86	
22 SEP 86	0045	1623.6	1.1	2	3020-85	5	T	C4	20 OCT 86	
29 SEP 86	0115	1617.6	4.6	2	3102-83	5	T	C4	20 OCT 86	
06 OCT 86	0142	1613.2	8.5	2	3020-84	5	T	C4	20 OCT 86	
13 OCT 86	0200	1616.3	11.3	3	3104-83	5	T	C4	13 NOV 86	
21 OCT 86	0037	1622.9	.3	2	3046-83	5	T	C4	13 NOV 86	
28 OCT 86	0107	1605.4	4.4	2	3022-83	5	T	C4	13 NOV 86	
04 NOV 86	0125	1619.7	1.5	2	3088-84	5	T	C4	13 NOV 86	
10 NOV 86	0120	1628.5	-.4	2	3098-84	5	T	C4	08 JAN 87	
17 NOV 86	0205	1620.9	.5	2	3038-85	5	T	C4	08 JAN 87	
08 DEC 86	0133	1632.0	-6.5	2	3010-84	5	T	C4	08 JAN 87	
15 DEC 86	0020	1634.0	4.6	2	3026-85	5	T	C4	07 JAN 87	
23 DEC 86	0024	1634.0	-5.0	2	3030-85	5	T	C4	07 JAN 87	
29 DEC 86	0150	1621.3	-3.3	2	3028-85	5	T	C4	04 FEB 87	
05 JAN 87	0147	1627.0	.5	2	3026-83	5	T	C4	04 FEB 87	
12 JAN 87	0210	1670.3	-11.0	4	3008-84	5	T	C4	04 FEB 87	
19 JAN 87	0048	1626.5	-2.2	2	3074-83	5	T	C4	04 FEB 87	
02 FEB 87	0155	1623.4	-9.0	2	3008-85	5	T	C4	05 MAR 87	
09 FEB 87	0210	1625.4	-3.2	2	3046-84	5	T	C4	05 MAR 87	
16 FEB 87	0125	1655.7	-3.1	2	3006-85	5	T	C4	05 MAR 87	
23 FEB 87	0210	1625.5	5.4	2	3074-84	5	T	C4	05 MAR 87	
02 MAR 87	0210	1629.2	-4.2	2	3036-85	5	T	C4	02 APR 87	
09 MAR 87	0210	1668.7	4.1	2	3078-84	5	T	C4	02 APR 87	
17 MAR 87	0138	1641.5	-1.0	2	3010-83	5	T	C4	02 APR 87	
24 MAR 87	0107	1653.1	.8	2	3016-85	5	T	C4	02 APR 87	
31 MAR 87	0105	1668.7	3.0	2	3052-83	5	T	C4	05 MAY 87	
06 APR 87	0210	1655.7	-6.9	2	3058-84	5	T	C4	05 MAY 87	
13 APR 87	0155	1681.5	-16.4	3	3076-83	5	T	C4	05 MAY 87	
21 APR 87	0255	1633.9	-2.8	2	3048-84	5	T	C4	05 MAY 87	
04 MAY 87	0200	1652.1	4.4	2	3014-83	5	T	C4	30 JUN 87	
11 MAY 87	0140	1651.9	2.2	2	3102-83	5	T	C4	30 JUN 87	
07 JUN 87	0204	1631.3	1.5	2	3054-83	5	T	C4	23 JUN 87	
15 JUN 87	0210	1632.5	-3.7	2	3092-83	5	T	C4	23 JUN 87	
22 JUN 87	0150	1641.9	2.6	2	3008-85	5	T	C4	12 AUG 87	
17 JUL 87	0055	1629.1	-2.7	2	3052-84	5	T	C4	12 AUG 87	
24 JUL 87	0045	1637.8	-1.7	2	3022-83	5	T	C4	12 AUG 87	
29 JUL 87	0030	1646.7	-8.5	2	3076-84	5	T	C4	12 AUG 87	
06 AUG 87	0115	1627.5	-2.0	2	3022-84	5	T	C4	28 OCT 87	
15 AUG 87	0030	1631.1	.2	2	3016-85	5	T	C4	28 OCT 87	
22 AUG 87	0105	1639.0	2.2	2	3052-83	5	T	C4	28 OCT 87	

Christmas Island (CHR)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
31 AUG 87	0145	1629.2	-4.4	2	3056-84	5	T	C4	28 OCT 87	
12 SEP 87	0050	1629.9	-1.6	2	3038-83	5	T	C4	28 OCT 87	
19 SEP 87	0045	1628.2	-1.6	2	3046-84	5	T	C4	28 OCT 87	
28 SEP 87	0100	1627.2	1.7	2	3032-84	5	T	C4	28 OCT 87	
04 OCT 87	0130	1635.6	-2.8	2	3042-84	5	T	C4	28 OCT 87	
29 OCT 87	0115	1636.3	2.7	2	3064-84	5	T	C4	08 DEC 87	
09 NOV 87	0205	1635.8	-9.1	2	3074-84	5	T	C4	08 DEC 87	
15 NOV 87	2353	1653.8	-4.4	2	3026-83	5	T	C4	08 DEC 87	
22 NOV 87	0155	1646.4	-5.5	2	3076-83	5	T	C4	08 DEC 87	
22 NOV 87	0200	1653.2	3.3	2	3012-85	5	T	C4	19 JAN 88	
01 DEC 87	0025	1629.7	-1.6	2	3080-84	5	T	C4	19 JAN 88	
14 DEC 87	0140	1642.6	4.1	2	3104-83	5	T	C4	19 JAN 88	
21 DEC 87	0150	1633.7	2.8	2	3012-84	5	T	C4	19 JAN 88	
06 JAN 88	0045	1648.5	-1.7	2	3010-83	5	T	C4	03 FEB 88	
12 JAN 88	0155	1649.5	-.1	2	3020-85	5	T	C4	03 FEB 88	
18 JAN 88	0130	1647.7	5.7	2	3038-83	5	T	C4	03 FEB 88	
24 JAN 88	0200	1678.6	-4.3	2	3086-84	5	T	C4	03 FEB 88	
01 FEB 88	0210	1661.6	2.1	2	3060-83	5	T	C4	17 MAY 88	
08 FEB 88	0200	1671.4	4.8	2	3096-84	5	T	C4	17 MAY 88	
15 FEB 88	0140	1643.7	5.8	3	3028-84	5	T	C4	17 MAY 88	
22 FEB 88	0215	1647.4	-11.5	3	3062-84	5	T	C4	17 MAY 88	
29 FEB 88	0205	1691.8	-5.7	2	3068-83	5	T	C4	17 MAY 88	
07 MAR 88	0200	1673.7	9.2	2	3066-84	5	T	C4	17 MAY 88	
14 MAR 88	0155	1662.4	-.8	2	3074-83	5	T	C4	13 MAY 88	
14 MAR 88	0155	1662.6	4.9	2	3092-83	5	T	C4	13 MAY 88	
21 MAR 88	0135	1635.6	-4.9	2	3018-84	5	T	C4	17 MAY 88	
28 MAR 88	0130	1659.6	-5.8	2	3032-84	5	T	C4	17 MAY 88	
25 APR 88	0140	1640.9	-2.8	2	3014-83	5	T	C4	07 JUL 88	
02 MAY 88	0145	1621.1	12.9	3	3078-83	5	T	C4	07 JUL 88	
09 MAY 88	0140	1644.3	2.8	2	3040-83	5	T	C4	07 JUL 88	
16 MAY 88	0240	1640.2	6.9	2	3046-84	5	T	C4	07 JUL 88	
06 JUN 88	0210	1637.1	-5.4	2	3102-83	5	T	C4	07 JUL 88	
13 JUN 88	0205	1630.8	-3.5	2	3052-84	5	T	C4	07 JUL 88	
20 JUN 88	0215	1642.8	.8	2	3028-85	5	T	C4	19 JUL 88	
27 JUN 88	0220	1636.0	-11.7	3	3032-85	5	T	C4	07 JUL 88	
04 JUL 88	0210	1628.2	-6.7	2	3060-83	5	T	C4	16 AUG 88	
11 JUL 88	0250	1638.3	-18.0	3	3096-84	5	T	C4	16 AUG 88	
18 JUL 88	0145	1648.5	-2.7	2	3018-84	5	T	C4	16 AUG 88	
25 JUL 88	0205	1648.8	.6	2	3032-84	5	T	C4	16 AUG 88	
22 AUG 88	0155	1647.6	-3.3	2	3098-83	5	T	C4	20 SEP 88	
29 AUG 88	0210	1641.9	5.8	2	3052-84	5	T	C4	20 SEP 88	
05 SEP 88	0200	1638.2	2.3	2	3011-84	5	T	C4	20 SEP 88	
13 SEP 88	0150	1655.1	-9.4	2	3046-84	5	T	C4	20 SEP 88	
18 SEP 88	0125	1640.4	-3.3	2	3078-83	5	T	C4	18 OCT 88	
26 SEP 88	0145	1645.5	3.0	2	3074-84	5	T	C4	18 OCT 88	
03 OCT 88	0245	1640.2	3.3	2	3022-83	5	T	C4	18 OCT 88	
10 OCT 88	0120	1644.6	-9.0	2	3062-83	5	T	C4	18 OCT 88	
17 OCT 88	0210	1652.0	.9	2	3056-83	5	T	C4	16 NOV 88	
24 OCT 88	0215	1643.3	-.4	2	3090-84	5	T	C4	16 NOV 88	
31 OCT 88	0228	1649.9	10.7	3	3026-83	5	T	C4	16 NOV 88	
07 NOV 88	0155	1655.5	-2.0	2	3054-83	5	T	C4	16 NOV 88	
14 NOV 88	0155	1656.2	4.4	2	3104-83	5	T	C4	21 DEC 88	
14 NOV 88	0155	1650.8	9.5	2	3104-83	5	T	C4	05 JAN 89	
20 NOV 88	0025	1647.8	5.4	2	3084-84	5	T	C4	21 DEC 88	
20 NOV 88	0025	1641.0	.7	2	3084-84	5	T	C4	05 JAN 89	
05 DEC 88	0145	1653.3	-3.4	2	3046-83	5	T	C4	21 DEC 88	
11 DEC 88	0230	1661.7	-11.7	3	3020-84	5	T	C4	21 DEC 88	
11 DEC 88	0230	1660.2	-3.3	2	3020-84	5	T	C4	05 JAN 89	
19 DEC 88	0230	1660.2	2.6	2	3050-84	5	T	C4	31 JAN 89	
28 DEC 88	0155	1655.1	9.5	2	3088-84	5	T	C4	31 JAN 89	

Cape Meares, Oregon (CMO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
03 JAN 86	2239	1731.7	-.4	2	1192-82	1	P	C3	09 JAN 86	
09 JAN 86	2325	1706.8		1	716-85	1	P	C4	11 FEB 86	
21 JAN 86	0045	1716.0	.4	2	968-83	1	P	C4	03 FEB 86	
23 JAN 86	2330	1716.9	6.7	2	1578-82	1	P	C4	03 FEB 86	
30 JAN 86	2145	1717.7	.2	2	712-85	1	P	C4	13 FEB 86	
06 FEB 86	2155	1732.7	2.6	2	242-85	1	P	C4	18 FEB 86	
14 FEB 86	2255	1708.9	3.3	2	800-83	1	P	C4	10 MAR 86	
27 FEB 86	2340	1694.4	4.2	2	8-85	1	P	C4	11 MAR 86	
06 MAR 86	2045	1686.9	-2.5	2	814-83	1	P	C4	14 MAR 86	
13 MAR 86	2138	1717.4	1.9	2	286-83	1	P	C4	21 MAR 86	
20 MAR 86	2202	1737.7		1	10-83	1	P	C4	22 APR 86	
27 MAR 86	2040	1713.9	5.9	2	1114-82	1	P	C4	22 APR 86	
03 APR 86	2315	1730.8	5.3	2	642-83	1	P	C4	18 APR 86	
10 APR 86	2115	1731.1	2.8	2	866-83	1	P	C4	18 APR 86	
17 APR 86	2115	1745.8	1.1	2	754-83	1	P	C4	22 APR 86	
23 APR 86	2315	1737.8	2.5	2	1268-82	1	P	C4	01 MAY 86	
01 MAY 86	2055	1721.8	4.4	2	200-83	1	P	C4	09 MAY 86	
08 MAY 86	1754	1728.9	3.1	2	1220-82	1	P	C4	14 MAY 86	
15 MAY 86	1736	1731.3	-.2	2	172-83	1	P	C4	28 MAY 86	
21 MAY 86	2150	1721.9	-4.1	2	946-83	1	P	C4	28 MAY 86	
30 MAY 86	0015	1708.6	3.1	2	448-83	1	P	C4	12 JUN 86	
06 JUN 86	2045	1708.0	.3	2	1662-82	1	P	C4	12 JUN 86	
14 JUN 86	0140	1725.8	-.2	2	803-83	1	P	C4	05 AUG 86	
19 JUN 86	2042	1720.4	-4.1	2	100-83	1	P	C4	08 AUG 86	
25 JUN 86	2115	1709.0	1.8	2	947-83	1	P	C4	08 JUL 86	
01 JUL 86	2030	1681.6		1	52-85	1	P	C4	08 JUL 86	
08 JUL 86	2045	1700.7	-1.7	2	48-85	1	P	C4	30 JUL 86	
16 JUL 86	2100	1698.2	5.8	2	278-83	1	P	C4	29 JUL 86	
14 AUG 86	2045	1659.7	-2.0	2	680-83	1	P	C4	19 SEP 86	
21 AUG 86	2115	1714.5	-2.6	2	942-83	1	P	C4	25 SEP 86	
29 AUG 86	2245	1695.3	8.4	3	384-85	1	P	C4	23 SEP 86	
04 SEP 86	2130	1671.2	6.7	2	1218-82	1	P	C4	11 SEP 86	
18 SEP 86	2055	1724.2	1.5	2	184-85	1	P	C4	30 SEP 86	
02 OCT 86	2015	1770.1	4.6	2	962-83	1	P	C4	09 OCT 86	
14 OCT 86	1915	1736.2	4.3	2	290-85	1	P	C4	20 OCT 86	
21 OCT 86	2245	1741.5	11.0	3	50-83	1	P	C4	12 NOV 86	
28 OCT 86	2230	1731.9	-.6	2	704-83	1	P	C4	14 NOV 86	
12 NOV 86	2104	1726.5	5.7	2	40-85	1	P	C4	17 NOV 86	
19 NOV 86	2320	1729.4	1.3	2	754-83	1	P	C4	11 DEC 86	
26 NOV 86	2138	1735.1	1.0	2	342-82	1	P	C4	09 DEC 86	
04 DEC 86	2230	1736.9	-4.6	2	42-85	1	P	C4	11 DEC 86	
16 DEC 86	2145	1737.1	4.2	2	508-82	1	P	C4	30 DEC 86	
23 DEC 86	2010	1738.3	-5.6	2	702-85	1	P	C4	07 JAN 87	
29 DEC 86	2245	1728.2	-2.3	2	626-85	1	P	C4	08 JAN 87	
06 JAN 87	2215	1727.5	-2.2	2	100-85	1	P	C4	09 JAN 87	
20 JAN 87	2215	1746.7	4.2	2	490-85	1	P	C4	04 FEB 87	
04 FEB 87	0015	1731.8	2.2	2	1304-82	1	P	C4	10 FEB 87	
12 FEB 87	2315	1719.0	-2.7	2	178-82	1	P	C4	24 FEB 87	
19 FEB 87	2245	1729.2	2.1	2	788-85	1	P	C4	04 MAR 87	
26 FEB 87	2230	1745.6	1.9	2	906-83	1	P	C4	04 MAR 87	
06 MAR 87	2215	1737.2	-8.2	2	18-85	1	P	C4	13 MAR 87	
14 MAR 87	2230	1743.6	.1	2	508-83	1	P	C4	21 APR 87	
17 MAR 87	2300	1739.7	-3.8	2	675-83	1	P	C4	21 APR 87	
01 APR 87	0116	1745.2	6.9	2	622-83	1	P	C4	08 APR 87	
07 APR 87	2330	1736.8	4.3	2	859-83	1	P	C4	22 APR 87	
21 APR 87	2321	1753.0	3.9	2	34-85	1	P	C4	28 APR 87	
28 APR 87	2145	1724.8	13.1	3	1662-82	1	P	C4	05 MAY 87	
06 MAY 87	2215	1722.5	-.6	2	611-85	1	P	C4	13 MAY 87	
12 MAY 87	2145	1728.9	-1.9	2	490-85	1	P	C4	21 MAY 87	
19 MAY 87	1945	1746.6	.2	2	830-85	1	P	C4	01 JUN 87	
26 MAY 87	2015	1727.3	.9	2	690-85	1	P	C4	01 JUN 87	
02 JUN 87	2145	1764.2	.7	2	756-83	1	P	C4	15 JUN 87	
09 JUN 87	2315	1736.0	11.6	3	368-85	1	P	C4	18 JUN 87	
24 JUN 87	2145	1730.0	-6.4	2	502-82	1	P	C4	30 JUN 87	

Cape Meares, Oregon (CMO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
03 JUL 87	2340	1699.3	-6.2	2	1572-82	1	P	C4	13 JUL 87	
10 JUL 87	2145	1704.7	-2.7	2	606-85	1	P	C4	22 JUL 87	
14 JUL 87	2115	1718.4	8.1	2	752-83	1	P	C4	22 JUL 87	
25 JUL 87	0045	1697.8		1	764-85	1	P	C4	12 AUG 87	
28 JUL 87	2155	1722.7	-.7	2	352-85	1	P	C4	12 AUG 87	
04 AUG 87	2015	1689.8	3.9	2	682-83	1	P	C4	10 AUG 87	
11 AUG 87	2315	1723.7	-6.3	2	920-82	1	P	C4	03 SEP 87	
18 AUG 87	2040	1721.7	-2.8	2	368-85	1	P	C4	09 SEP 87	
25 AUG 87	2300	1689.6	.8	2	694-85	1	P	C4	03 SEP 87	
01 SEP 87	2330	1679.2	-2.0	2	420-85	1	P	C4	09 SEP 87	
09 SEP 87	2200	1727.1	3.1	2	296-83	1	P	C4	15 SEP 87	
16 SEP 87	1945	1751.2	4.3	2	408-85	1	P	C4	24 SEP 87	
24 SEP 87	0000	1721.3	-1.5	2	948-82	1	P	C4	30 SEP 87	
28 SEP 87	0000	1734.3	5.1	2	796-85	1	P	C4	08 OCT 87	
05 OCT 87	2125	1744.7	-8.3	2	114-87	1	P	C4	08 OCT 87	
13 OCT 87	2230	1761.4	-9.0	2	466-83	1	P	C4	27 OCT 87	
20 OCT 87	1855	1763.5	3.9	2	12-85	1	P	C4	27 OCT 87	
27 OCT 87	2300	1742.6	-6.2	2	246-87	1	P	C4	09 NOV 87	
03 NOV 87	2246	1738.6	-6.4	2	451-85	1	P	C4	09 NOV 87	
10 NOV 87	2145	1741.3	2.6	2	524-85	1	P	C4	18 NOV 87	
17 NOV 87	2330	1738.2	-2.5	2	106-85	1	P	C4	24 NOV 87	
24 NOV 87	2355	1757.4	-2.1	2	264-85	1	P	C4	04 DEC 87	
04 DEC 87	0020	1745.4	-1.4	2	226-85	1	P	C4	11 DEC 87	
11 DEC 87	2345	1744.0	4.6	2	128-87	1	P	C4	22 DEC 87	
15 DEC 87	2315	1756.9	-2.9	2	158-85	1	P	C4	04 JAN 88	
22 DEC 87	2025	1761.9	-2.0	2	288-86	1	P	C4	04 JAN 88	
11 JAN 88	2345	1753.0	2.6	2	492-85	1	P	C4	19 JAN 88	
21 JAN 88	2315	1771.7	1.2	2	249-85	1	P	C4	04 FEB 88	
26 JAN 88	2345	1757.1	3.7	2	392-85	1	P	C4	03 FEB 88	
02 FEB 88	2145	1760.1	2.6	2	358-86	1	P	C4	19 FEB 88	
11 FEB 88	2115	1765.3	9.8	2	334-86	1	P	C4	24 FEB 88	
17 FEB 88	2315	1741.2	-13.8	3	86-85	1	P	C4	26 FEB 88	
23 FEB 88	2245	1748.8	-1.1	2	294-85	1	P	C4	29 FEB 88	
02 MAR 88	2340	1745.5	2.0	2	294-87	1	P	C4	10 MAR 88	
09 MAR 88	2115	1753.2	2.8	2	252-85	1	P	C4	23 MAR 88	
16 MAR 88	2100	1785.7	-.6	2	406-85	1	P	C4	24 MAR 88	
29 MAR 88	2045	1755.8	-1.1	2	414-86	1	P	C4	12 APR 88	
05 APR 88	1930	1744.8	8.1	2	696-85	1	P	C4	13 APR 88	
12 APR 88	1930	1745.4	-5.5	2	215-85	1	P	C4	18 APR 88	
19 APR 88	2015	1765.4	-2.7	2	368-86	1	P	C4	29 APR 88	
25 APR 88	2230	1764.8	-5.9	2	258-87	1	P	C4	04 MAY 88	
02 MAY 88	2055	1760.1	-2.6	2	578-87	1	P	C4	16 MAY 88	
12 MAY 88	2200	1724.6	-10.2	2	397-85	1	P	C4	01 JUN 88	
12 MAY 88	2200	1735.5		1	398-85	1	P	C4	31 MAY 88	
18 MAY 88	2200	1747.4	-1.8	2	130-85	1	P	C4	31 MAY 88	
24 MAY 88	2030	1751.9	-7.3	2	82-87	1	P	C4	01 JUN 88	
31 MAY 88	2100	1737.8	3.8	2	336-85	1	P	C4	14 JUN 88	
08 JUN 88	2100	1749.1	-2.8	2	258-86	1	P	C4	15 JUN 88	
14 JUN 88	2130	1744.3	-3.3	2	104-87	1	P	C4	22 JUN 88	
22 JUN 88	2100	1719.9	-1.3	2	668-85	1	P	C4	01 JUL 88	
28 JUN 88	2130	1726.2	-1.1	2	492-85	1	P	C4	01 JUL 88	
05 JUL 88	2215	1732.3	4.3	2	142-85	1	P	C4	13 JUL 88	
19 JUL 88	2100	1754.7	.5	2	294-86	1	P	C4	11 AUG 88	
26 JUL 88	2200	1725.9	4.3	2	258-86	1	P	C4	16 AUG 88	
02 AUG 88	2230	1717.0	-2.9	2	174-85	1	P	C4	16 AUG 88	
16 AUG 88	1545	1714.2	2.1	2	370-85	1	P	C4	26 AUG 88	
23 AUG 88	2045	1731.3	-2.6	2	666-85	1	P	C4	16 SEP 88	
29 AUG 88	2130	1734.3	-1.8	2	491-85	1	P	C4	13 SEP 88	
07 SEP 88	0015	1735.5	-2.5	2	236-85	1	P	C4	16 SEP 88	
13 SEP 88	2230	1754.6	4.6	2	80-87	1	P	C4	19 SEP 88	
20 SEP 88	2000	1748.2	2.5	2	550-87	1	P	C4	28 SEP 88	
27 SEP 88	2100	1750.0	-.4	2	174-85	1	P	C4	04 OCT 88	
04 OCT 88	2100	1730.7	-7.4	2	66-81	1	P	C4	11 OCT 88	
11 OCT 88	1945	1749.2	-1.9	2	24-81	1	P	C4	18 OCT 88	
18 OCT 88	2346	1753.9	7.1	2	160-81	1	P	C4	27 OCT 88	

Cape Meares, Oregon (CMO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
25 OCT 88	2045	1770.8	-3.0	2	178-81	1	P	C4	02 NOV 88	
01 NOV 88	2230	1738.0	.2	2	316-81	1	P	C4	09 NOV 88	
15 NOV 88	2145	1749.4	-3.7	2	441-81	1	P	C4	22 NOV 88	
29 NOV 88	2215	1751.5	-2.7	2	298-81	1	P	C4	05 DEC 88	
06 DEC 88	2315	1751.1	4.9	2	534-81	1	P	C4	12 DEC 88	
13 DEC 88	2145	1750.3	-4.3	2	588-81	1	P	C4	21 DEC 88	
20 DEC 88	2015	1748.9	5.6	2	100-81	1	P	C4	09 JAN 89	
28 DEC 88	2054	1755.0	-2.3	2	324-81	1	P	C4	09 JAN 89	

Guam, Mariana Islands (GMI)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
06 JAN 86	0740	1663.0	6.0	2	788-83	1	P	C4	11 FEB 86	
10 JAN 86	0749	1663.3	-.5	2	1318-82	1	P	C4	29 JAN 86	
20 JAN 86	0749	1676.9	-3.8	2	1546-82	1	P	C4	04 FEB 86	
29 JAN 86	0750	1668.6	-3.4	2	265-83	1	P	C4	19 FEB 86	
04 FEB 86	0750	1716.2	-7.1	2	836-82	1	P	C4	18 FEB 86	
25 FEB 86	0753	1633.7	-3.3	2	1268-82	1	P	C4	21 MAR 86	
08 MAR 86	0758	1695.0	-.8	2	1224-82	1	P	C4	24 MAR 86	
14 MAR 86	0757	1680.9		1	60-83	1	P	C4	21 APR 86	
14 MAR 86	0758	1686.0	7.0	2	60-83	1	P	C4	22 APR 86	
01 APR 86	0440	1658.2	5.3	2	1312-82	1	P	C4	22 APR 86	
07 APR 86	0533	1686.0	3.8	2	192-83	1	P	C4	23 APR 86	
15 APR 86	0517	1689.2	-.9	2	1646-82	1	P	C4	24 APR 86	
21 APR 86	0528	1680.6	-11.2	3	624-83	1	P	C4	01 MAY 86	
28 APR 86	0445	1687.2	-11.2	2	672-83	1	P	C4	28 MAY 86	
02 MAY 86	0510	1725.4	-5.2	2	612-83	1	P	C4	28 MAY 86	+
27 MAY 86	0610	1634.2	-3.7	2	902-83	1	P	C4	09 AUG 86	
03 JUN 86	0615	1661.7		1	900-83	1	P	C4	08 AUG 86	
10 JUN 86	0605	1663.7	-3.5	2	10-83	1	P	C4	30 JUL 86	
17 JUL 86	0624	1660.9	1.2	2	80-85	1	P	C4	11 SEP 86	
05 SEP 86	0603	1644.2	-.2	2	172-83	1	P	C4	13 OCT 86	
26 OCT 86	2230	1668.9	4.6	2	318-83	1	P	C4	14 NOV 86	
02 NOV 86	2230	1677.3	1.7	2	718-85	1	P	C4	11 DEC 86	
13 NOV 86	2230	1689.5	-6.1	2	448-83	1	P	C4	11 DEC 86	
20 NOV 86	2200	1696.8	.2	2	86-85	1	P	C4	07 JAN 87	
18 DEC 86	2340	1669.8	-3.3	2	106-85	1	P	C4	07 JAN 87	
29 DEC 86	2215	1699.2	-5.2	2	876-83	1	P	C4	08 JAN 87	
12 JAN 87	2245	1670.4	8.7	2	502-83	1	P	C4	20 JAN 87	
15 JAN 87	2215	1697.4	4.5	2	502-82	1	P	C4	18 FEB 87	
08 FEB 87	2230	1698.6	-2.3	2	210-83	1	P	C4	18 FEB 87	
16 FEB 87	2230	1679.8	-1.9	2	250-85	1	P	C4	24 FEB 87	
23 FEB 87	2234	1671.5	-2.1	2	278-85	1	P	C4	05 MAR 87	
09 MAR 87	0058	1671.8	-1.0	2	880-83	1	P	C4	24 MAR 87	
16 MAR 87	2238	1690.2	3.3	2	374-85	1	P	C4	25 MAR 87	
22 MAR 87	2330	1705.6	4.8	2	1546-82	1	P	C4	02 APR 87	
02 APR 87	2340	1698.1	-13.8	3	502-83	1	P	C4	22 APR 87	
09 APR 87	2235	1688.7	-3.3	2	770-85	1	P	C4	21 APR 87	
20 APR 87	2235	1673.3	11.5	3	44-83	1	P	C4	28 APR 87	
30 APR 87	2230	1691.4	5.6	2	946-81	1	P	C4	15 MAY 87	
06 MAY 87	2240	1689.3	-9.5	2	510-83	1	P	C4	21 MAY 87	
14 MAY 87	2220	1699.5	-4.8	2	84-85	1	P	C4	01 JUN 87	
21 MAY 87	2232	1701.5	.4	2	602-85	1	P	C4	09 JUN 87	
15 JUN 87	2245	1660.4	-3.0	2	66-85	1	P	C4	30 JUN 87	
22 JUN 87	2225	1660.7	4.3	2	48-85	1	P	C4	30 JUN 87	
05 JUL 87	2245	1658.4	-4.8	2	832-83	1	P	C4	22 JUL 87	
16 JUL 87	2250	1652.1	3.2	2	806-83	1	P	C4	30 JUL 87	
23 JUL 87	2250	1639.5	4.6	2	226-83	1	P	C4	11 AUG 87	
29 JUL 87	2255	1662.7	-1.6	2	750-85	1	P	C4	02 SEP 87	
03 AUG 87	2225	1671.0	.3	2	1630-82	1	P	C4	02 SEP 87	
09 AUG 87	2310	1662.5	-.4	2	192-83	1	P	C4	02 SEP 87	
16 AUG 87	2235	1667.1	.3	2	506-85	1	P	C4	03 SEP 87	
26 AUG 87	2250	1645.4	2.6	2	242-86	1	P	C4	09 SEP 87	
09 SEP 87	2230	1647.0	3.0	2	294-86	1	P	C4	24 SEP 87	
17 SEP 87	2240	1639.5	-7.3	2	342-82	1	P	C4	30 SEP 87	
24 SEP 87	2230	1705.5	-11.8	3	36-85	1	P	C4	08 OCT 87	
01 OCT 87	2215	1695.9	-8.4	2	824-85	1	P	C4	08 OCT 87	
08 OCT 87	2250	1662.6	-5.0	2	1762-82	1	P	C4	27 OCT 87	
15 OCT 87	2145	1690.4	-.6	2	558-85	1	P	C4	09 NOV 87	
22 OCT 87	2205	1706.5	4.5	2	652-85	1	P	C4	09 NOV 87	
26 OCT 87	2150	1690.1	2.5	2	419-85	1	P	C4	18 NOV 87	
05 NOV 87	2205	1688.4	8.4	2	54-85	1	P	C4	18 NOV 87	
12 NOV 87	2210	1692.8	6.1	2	248-87	1	P	C4	24 NOV 87	
19 NOV 87	2320	1644.1	-7.6	2	464-83	1	P	C4	04 DEC 87	
26 NOV 87	2250	1693.0	3.9	2	12-85	1	P	C4	04 DEC 87	
03 DEC 87	2215	1695.1	.7	2	174-85	1	P	C4	31 DEC 87	

Guam, Mariana Islands (GMI)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
14 DEC 87	2215	1710.9	-6.4	2	402-85	1	P	C4	04 JAN 88	
21 DEC 87	2210	1715.5	5.0	2	244-87	1	P	C4	04 JAN 88	
30 DEC 87	2230	1706.4	-8.5	2	274-87	1	P	C4	13 JAN 88	
06 JAN 88	2225	1707.1	2.5	2	21-85	1	P	C4	03 FEB 88	
14 JAN 88	2215	1683.9	-3.5	2	360-86	1	P	C4	03 FEB 88	
23 JAN 88	2225	1688.5	-2.3	2	112-87	1	P	C4	04 FEB 88	
28 JAN 88	2220	1698.7	1.5	2	372-85	1	P	C4	18 FEB 88	
07 FEB 88	2300	1682.6	12.0	3	348-85	1	P	C4	24 FEB 88	
18 FEB 88	2030	1721.9	.5	2	418-86	1	P	C4	09 MAR 88	
24 FEB 88	2315	1723.2	-.4	2	296-85	1	P	C4	10 MAR 88	
07 MAR 88	2210	1699.5	5.1	2	304-85	1	P	C4	23 MAR 88	
14 MAR 88	2225	1675.2	.7	2	396-85	1	P	C4	13 APR 88	
22 MAR 88	2235	1703.9	1.5	2	356-85	1	P	C4	13 APR 88	
28 MAR 88	2230	1669.6	-5.4	2	360-86	1	P	C4	13 APR 88	
06 APR 88	2215	1672.2	4.0	2	98-87	1	P	C4	13 MAY 88	
12 APR 88	2150	1689.5	-1.6	2	138-85	1	P	C4	22 APR 88	
20 APR 88	2240	1692.7	-4.8	2	152-85	1	P	C4	16 MAY 88	
28 APR 88	2220	1690.4	3.3	2	280-85	1	P	C4	17 MAY 88	
05 MAY 88	2205	1684.5	-.7	2	552-87	1	P	C4	17 MAY 88	
16 MAY 88	2210	1682.8	7.2	2	318-85	1	P	C4	31 MAY 88	
23 MAY 88	2315	1688.2	-6.3	2	304-85	1	P	C4	14 JUN 88	
01 JUN 88	2245	1668.0	2.2	2	246-85	1	P	C4	20 JUN 88	
13 JUN 88	2215	1662.7	-1.3	2	594-85	1	P	C4	28 JUN 88	
20 JUN 88	2210	1653.8	-4.9	2	268-86	1	P	C4	01 JUL 88	
28 JUN 88	2215	1663.6	-9.8	2	664-85	1	P	C4	13 JUL 88	
04 JUL 88	2225	1665.7	8.0	2	368-85	1	P	C4	13 JUL 88	
14 JUL 88	2225	1652.2	-8.0	2	72-87	1	P	C4	10 AUG 88	
21 JUL 88	2205	1653.4	2.5	2	346-85	1	P	C4	16 AUG 88	
01 AUG 88	2205	1660.6	3.1	2	272-86	1	P	C4	16 AUG 88	
09 AUG 88	2230	1646.8	-2.3	2	194-85	1	P	C4	18 AUG 88	
15 AUG 88	0052	1654.9	3.0	2	404-86	1	P	C4	31 AUG 88	
21 AUG 88	2245	1665.8	-.2	2	6-85	1	P	C4	31 AUG 88	
01 SEP 88	2235	1660.2	7.2	2	364-85	1	P	C4	16 SEP 88	
09 SEP 88	2300	1667.0	-5.1	2	582-87	1	P	C4	22 SEP 88	
25 SEP 88	2225	1645.9	8.0	2	92-87	1	P	C4	11 OCT 88	
04 OCT 88	2310	1650.2	9.4	2	530-87	1	P	C4	20 OCT 88	
14 OCT 88	0126	1662.5	3.7	2	258-87	1	P	C4	27 OCT 88	
20 OCT 88	2225	1668.1	-7.4	2	119-81	1	P	C4	09 NOV 88	
31 OCT 88	2300	1690.0	2.7	2	54-81	1	P	C4	17 NOV 88	
07 NOV 88	2315	1712.1	-11.1	2	169-81	1	P	C4	02 DEC 88	
14 NOV 88	2240	1711.0	5.3	2	312-81	1	P	C4	22 NOV 88	
22 NOV 88	2236	1697.4	-3.7	2	394-81	1	P	C4	05 DEC 88	
28 NOV 88	2245	1680.3	1.2	2	424-81	1	P	C4	12 DEC 88	
05 DEC 88	2200	1700.7	-4.0	2	104-81	1	P	C4	12 DEC 88	
12 DEC 88	2215	1712.0	-1.7	2	618-81	1	P	C4	21 DEC 88	
28 DEC 88	2240	1699.5	.8	2	642-81	1	P	C4	09 JAN 89	

Halley Bay, Antarctica (HBA)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
13 JAN 86	1923	1583.7	-1.5	2	110-85	1	P	C4	10 AUG 87	
27 JAN 86	1930	1577.2	-2.1	2	112-85	1	P	C4	10 AUG 87	
12 FEB 86	0545	1573.0	-2.7	2	113-85	1	P	C4	11 AUG 87	
24 FEB 86	1925	1565.0	4.2	2	116-85	1	P	C4	10 AUG 87	
14 MAR 86	1930	1579.7	4.6	2	118-85	1	P	C4	10 AUG 87	
24 MAR 86	1920	1572.6	-2.3	2	120-85	1	P	C4	11 AUG 87	
14 APR 86	1830	1580.5	.4	2	121-85	1	P	C4	11 AUG 87	
23 APR 86	2015	1580.6	.5	2	123-85	1	P	C4	11 AUG 87	
07 MAY 86	1700	1586.1	-6.9	2	126-85	1	P	C4	11 AUG 87	
21 MAY 86	2000	1581.9	.1	2	128-85	1	P	C4	10 AUG 87	
04 JUN 86	1935	1590.1	5.8	2	130-85	1	P	C4	11 AUG 87	
18 JUN 86	1930	1594.5	-.3	2	132-85	1	P	C4	10 AUG 87	
18 JUL 86	1930	1610.2	-.3	2	150-85	1	P	C4	10 AUG 87	
30 JUL 86	1700	1608.8	3.4	2	152-85	1	P	C4	10 AUG 87	
16 AUG 86	2115	1610.9	-.9	2	154-85	1	P	C4	10 AUG 87	
27 AUG 86	2100	1611.0	0.0	2	156-85	1	P	C4	10 AUG 87	
10 SEP 86	1940	1611.7	-3.8	2	158-85	1	P	C4	10 AUG 87	
24 SEP 86	1830	1613.9	1.5	2	160-85	1	P	C4	10 AUG 87	
08 OCT 86	2010	1612.9	1.6	2	161-85	1	P	C4	11 AUG 87	
22 OCT 86	2000	1616.3	-1.1	2	164-85	1	P	C4	11 AUG 87	
05 NOV 86	1900	1610.2	5.1	2	446-85	1	P	C4	10 AUG 87	
03 DEC 86	1905	1609.5	-5.9	2	450-85	1	P	C4	11 AUG 87	
16 DEC 86	2030	1603.2	-1.7	2	456-85	1	P	C4	11 AUG 87	
01 JAN 87	1900	1591.6	.4	2	458-85	1	P	C4	11 OCT 88	
15 JAN 87	1930	1590.9	3.0	2	460-85	1	P	C4	11 OCT 88	
28 JAN 87	1900	1587.2	-4.7	2	461-85	1	P	C4	14 OCT 88	
28 JAN 87	1900	1590.4		1	462-85	1	P	C4	11 OCT 88	
11 FEB 87	2000	1584.2	-.4	2	464-85	1	P	C4	11 OCT 88	
11 APR 87	2100	1595.1	-.5	2	468-85	1	P	C4	11 OCT 88	
22 APR 87	2050	1596.8	4.1	2	470-85	1	P	C4	11 OCT 88	
21 MAY 87	1950	1602.8	9.3	2	474-85	1	P	C4	10 OCT 88	
17 JUN 87	1950	1612.5	-.6	2	478-85	1	P	C4	10 OCT 88	
01 JUL 87	1945	1622.5	2.0	2	480-85	1	P	C4	10 OCT 88	
30 JUL 87	1930	1620.2	-2.4	2	484-85	1	P	C4	11 OCT 88	
14 AUG 87	1945	1620.8	-2.2	2	434-85	1	P	C4	11 OCT 88	
18 JAN 88	2015	1610.4	-2.0	2	64-86	1	P	C4	11 OCT 88	
18 JAN 88	2020	1608.4	-.9	2	68-86	1	P	C4	11 OCT 88	
16 MAR 88	1945	1606.1	-.2	2	46-87	1	P	C4	06 SEP 89	

Key Biscayne, Florida (KEY)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
09 JAN 86	1845	1720.9	1.5	2	756-83	1	P	C4	11 FEB 86	
10 FEB 86	1900	1672.9	-.9	2	836-82	1	P	C4	19 FEB 86	
14 FEB 86	1945	1717.2	1.8	2	1202-82	1	P	C4	10 MAR 86	
17 MAR 86	1820	1717.3	3.3	2	804-83	1	P	C4	18 APR 86	
28 MAR 86	1915	1701.6	1.3	2	1172-82	1	P	C4	16 APR 86	
11 APR 86	1930	1735.8	-.1	2	42-85	1	P	C4	20 APR 86	
24 APR 86	1850	1727.0	-.3	2	1094-82	1	P	C4	01 MAY 86	
07 MAY 86	1845	1702.7	-1.0	2	60-85	1	P	C4	14 MAY 86	
13 MAY 86	1905	1705.3	1.7	2	374-85	1	P	C4	31 MAY 86	
16 MAY 86	1850	1712.8	.1	3	34-82	1	P	C4	28 MAY 86	
23 MAY 86	1820	1660.0	-4.0	2	2-83	1	P	C4	10 JUN 86	
28 MAY 86	1830	1712.4	4.4	2	1114-82	1	P	C4	12 JUN 86	
05 JUN 86	1820	1654.2	-3.3	2	897-82	1	P	C4	07 AUG 86	
09 JUN 86	1825	1658.1	-2.3	2	1644-82	1	P	C4	05 AUG 86	
13 JUN 86	1815	1661.0	3.1	2	6-85	1	P	C4	05 AUG 86	
24 JUN 86	1925	1668.4	3.2	2	578-83	1	P	C4	08 JUL 86	
08 JUL 86	1810	1664.5	-3.9	2	730-85	1	P	C4	05 AUG 86	
15 JUL 86	1730	1658.1	3.5	2	240-85	1	P	C4	29 JUL 86	
23 JUL 86	1850	1657.0	-.2	2	380-85	1	P	C4	09 AUG 86	
05 AUG 86	1900	1655.8	-4.8	2	404-82	1	P	C4	24 AUG 86	
12 AUG 86	1745	1657.9	-5.5	2	290-85	1	P	C4	25 SEP 86	
22 AUG 86	1800	1658.7	-3.1	2	542-82	1	P	C4	25 SEP 86	
11 SEP 86	1815	1655.6	4.4	2	288-85	1	P	C4	19 SEP 86	
16 SEP 86	1800	1658.9	.1	2	566-85	1	P	C4	30 SEP 86	
24 SEP 86	1830	1707.2	.7	2	26-85	1	P	C4	08 OCT 86	
30 SEP 86	1800	1676.2	6.2	2	544-85	1	P	C4	09 OCT 86	
07 OCT 86	1850	1681.4	-.3	2	358-85	1	P	C4	13 OCT 86	
17 OCT 86	1800	1717.3	-5.4	2	848-83	1	P	C4	20 OCT 86	
30 OCT 86	1900	1711.3	7.7	2	664-83	1	P	C4	14 NOV 86	
07 NOV 86	1910	1703.6	-.7	2	1172-82	1	P	C4	17 NOV 86	
12 NOV 86	1930	1682.0	7.9	2	264-83	1	P	C4	17 NOV 86	
20 NOV 86	1900	1671.9	-2.8	2	56-85	1	P	C4	11 DEC 86	
08 DEC 86	1910	1705.5	.3	2	852-83	1	P	C4	23 DEC 86	
22 DEC 86	1930	1724.8	3.5	2	1564-82	1	P	C4	07 JAN 87	
31 DEC 86	1510	1728.0	2.5	2	84-85	1	P	C4	08 JAN 87	
14 JAN 87	1910	1718.2	-2.7	2	368-85	1	P	C4	20 JAN 87	
21 JAN 87	2010	1683.9	6.2	2	796-83	1	P	C4	04 FEB 87	
02 FEB 87	1950	1719.3	-8.8	2	542-83	1	P	C4	10 FEB 87	
26 FEB 87	1910	1725.3	-5.1	2	308-85	1	P	C4	04 MAR 87	
04 MAR 87	1920	1733.8	-4.8	2	28-85	1	P	C4	02 APR 87	
26 MAR 87	1915	1713.4	.4	2	24-85	1	P	C4	02 APR 87	
30 MAR 87	1900	1715.4	-5.1	2	868-83	1	P	C4	21 APR 87	
14 APR 87	1830	1712.8	-.7	2	366-82	1	P	C4	21 APR 87	
27 APR 87	1815	1727.4	2.3	2	400-83	1	P	C4	30 APR 87	
07 MAY 87	1800	1689.7	2.9	2	580-85	1	P	C4	26 MAY 87	
19 MAY 87	1744	1696.4	-1.9	2	414-85	1	P	C4	26 MAY 87	
11 JUN 87	1745	1666.7	3.5	2	136-85	1	P	C4	30 JUN 87	
22 JUN 87	1830	1669.6	1.1	2	698-83	1	P	C4	30 JUN 87	
01 JUL 87	1550	1668.4	-2.0	2	50-85	1	P	C4	13 JUL 87	
06 JUL 87	1830	1664.5	-1.1	2	388-85	1	P	C4	13 JUL 87	
10 JUL 87	1820	1682.1	-4.2	2	366-82	1	P	C4	30 JUL 87	
15 JUL 87	1800	1680.4		1	726-82	1	P	C4	30 JUL 87	
15 JUL 87	1800	1688.9	-12.5	2	726-82	1	P	C4	30 JUL 87	
21 JUL 87	1845	1689.7	8.4	2	327-85	1	P	C4	12 AUG 87	
28 JUL 87	1800	1682.8		1	12-83	1	P	C4	12 AUG 87	
05 AUG 87	1915	1658.4		1	784-85	1	P	C4	09 SEP 87	
17 AUG 87	1800	1670.4	-15.0	2	30-85	1	P	C4	09 SEP 87	
24 AUG 87	1800	1700.5	-46.7	2	501-83	1	P	C4	09 SEP 87	
31 AUG 87	1800	1716.3		1	413-85	1	P	C4	09 SEP 87	
14 SEP 87	1810	1695.7	8.2	2	172-83	1	P	C4	24 SEP 87	
05 OCT 87	9999	1745.5	.5	2	276-82	1	P	C4	26 OCT 87	
09 NOV 87	1850	1713.8	2.2	2	158-85	1	P	C4	18 NOV 87	
17 NOV 87	1910	1714.5	-7.5	2	362-82	1	P	C4	24 NOV 87	
15 DEC 87	1920	1716.1	1.1	2	272-87	1	P	C4	04 JAN 88	

Key Biscayne, Florida (KEY)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
24 DEC 87	1615	1707.0	-2.1	2	438-83	1	P	C4	02 JAN 88	
31 DEC 87	1620	1733.7	3.0	2	520-87	1	P	C4	19 JAN 88	
07 JAN 88	1845	1735.0	.6	2	522-87	1	P	C4	19 JAN 88	
29 JAN 88	1840	1743.7	1.2	2	198-85	1	P	C4	04 FEB 88	
19 FEB 88	1915	1700.6	2.6	2	166-85	1	P	C4	01 MAR 88	
09 MAR 88	1900	1719.0	-10.9	2	78-87	1	P	C4	23 MAR 88	
26 APR 88	1810	1716.8	-.7	2	249-85	1	P	C4	16 MAY 88	
10 MAY 88	1810	1742.5	-7.0	2	212-85	1	P	C4	23 MAY 88	
13 MAY 88	1740	1717.1	.9	2	68-85	1	P	C4	23 MAY 88	
09 JUN 88	1420	1704.2	4.6	2	564-87	1	P	C4	15 JUN 88	
23 JUN 88	1410	1705.8	-8.9	2	237-85	1	P	C4	07 JUL 88	
22 JUL 88	1910	1693.8	-2.8	2	256-86	1	P	C4	17 AUG 88	
09 AUG 88	1740	1683.0	-2.5	2	394-85	1	P	C4	17 AUG 88	
02 SEP 88	1820	1685.6	-1.5	2	125-87	1	P	C4	19 SEP 88	
14 OCT 88	1810	1757.7	-12.2	3	268-85	1	P	C4	24 OCT 88	
09 NOV 88	1945	1748.9	-9.6	2	78-87	1	P	C4	17 NOV 88	
21 NOV 88	1915	1715.8	13.7	3	500-85	1	P	C4	12 DEC 88	
07 DEC 88	1915	1754.7	-4.1	2	452-85	1	P	C4	14 DEC 88	
15 DEC 88	1930	1757.5	-1.6	2	74-81	1	P	C4	23 JAN 89	

Kumukahi, Hawaii (KUM)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
06 JAN 86	2310	1663.6	1.7	2	2074-85	1	P	C3	09 JAN 86	
06 JAN 86	2310	1669.4	-.6	2	2873-85	6	P	C3	09 JAN 86	
13 JAN 86	2316	1696.5	5.4	2	2839-85	6	P	C4	04 FEB 86	
10 FEB 86	2315	1652.1	-4.3	2	2852-85	1	P	C4	13 FEB 86	
18 FEB 86	2323	1699.2	5.9	2	2824-85	1	P	C4	27 FEB 86	
24 FEB 86	2308	1649.2		1	2822-85	1	P	C4	27 FEB 86	
03 MAR 86	2300	1667.8	3.2	2	2874-85	1	P	C4	14 MAR 86	
10 MAR 86	2328	1650.1	.5	2	2816-85	1	P	C4	13 MAR 86	
17 MAR 86	2313	1667.6	-7.1	2	2834-85	1	P	C4	21 MAR 86	
24 MAR 86	2221	1704.6	6.3	2	2878-85	1	P	C4	18 APR 86	
31 MAR 86	2310	1686.2	5.7	2	2828-85	1	P	C4	18 APR 86	
14 APR 86	2335	1700.2	-3.0	2	2850-85	1	P	C4	20 APR 86	
21 APR 86	2302	1685.5	-6.5	2	2842-85	1	P	C4	01 MAY 86	
28 APR 86	2300	1684.9	.5	2	2837-85	6	P	C4	01 MAY 86	
05 MAY 86	2309	1665.7	6.3	2	2823-85	6	P	C4	31 MAY 86	
05 MAY 86	2309	1666.9	-3.7	2	2824-85	1	P	C4	31 MAY 86	
12 MAY 86	2334	1671.9	-.9	2	2821-85	6	P	C4	31 MAY 86	
19 MAY 86	2230	1654.1	-5.1	2	2891-85	6	P	C4	11 JUN 86	
19 MAY 86	2230	1661.5	-2.7	2	2892-85	1	P	C4	11 JUN 86	
02 JUN 86	2300	1701.8	-5.3	2	2807-82	6	P	C4	12 JUN 86	
09 JUN 86	2300	1670.2	1.6	3	2809-85	6	P	C4	12 JUN 86	
09 JUN 86	2300	1671.2	-8.5	3	2810-85	1	P	C4	12 JUN 86	
16 JUN 86	2309	1670.8	-5.9	2	2839-85	6	P	C4	23 JUL 86	
16 JUN 86	2309	1681.2	-2.0	2	2840-85	1	P	C4	23 JUL 86	
01 JUL 86	2345	1656.4	-.5	2	2831-85	6	P	C4	22 JUL 86	
01 JUL 86	2345	1657.5	-2.4	2	2832-85	1	P	C4	22 JUL 86	
07 JUL 86	2301	1660.5	-2.3	2	2829-85	6	P	C4	22 JUL 86	
07 JUL 86	2301	1659.7	5.1	2	2830-85	1	P	C4	22 JUL 86	
14 JUL 86	2300	1642.3	-15.8	3	2807-85	6	P	C4	10 AUG 86	
14 JUL 86	2300	1657.3	-.3	2	2808-85	1	P	C4	10 AUG 86	
21 JUL 86	2325	1639.5	10.2	3	2893-85	6	P	C4	09 AUG 86	
21 JUL 86	2325	1642.4	-1.2	2	2894-85	1	P	C4	09 AUG 86	
28 JUL 86	2248	1685.4	.6	2	2835-85	6	P	C4	08 AUG 86	
04 AUG 86	2246	1644.5	-1.3	2	2857-85	6	P	C4	08 AUG 86	
04 AUG 86	2246	1668.9	-.6	2	2858-85	1	P	C4	08 AUG 86	
11 AUG 86	2308	1683.6	4.5	2	2895-85	6	P	C4	15 SEP 86	
18 AUG 86	2310	1644.5	4.8	2	2889-85	6	P	C4	15 SEP 86	
18 AUG 86	2310	1660.1	.1	2	2890-85	1	P	C4	15 SEP 86	
02 SEP 86	2302	1643.6	5.0	2	2832-85	1	P	C4	18 SEP 86	
22 SEP 86	2320	1681.8	-1.9	2	2868-85	1	P	C4	30 SEP 86	
24 SEP 86	2156	1721.7	-10.4	2	1680-82	1	P	C4	08 OCT 86	
29 SEP 86	2218	1681.8		1	34-85	1	P	C4	08 OCT 86	
06 OCT 86	2307	1673.7	-3.3	2	642-83	1	P	C4	20 OCT 86	
14 OCT 86	2310	1677.4	-3.8	2	222-85	1	P	C4	20 OCT 86	
20 OCT 86	2300	1691.7	-6.4	2	698-83	1	P	C4	12 NOV 86	
03 NOV 86	2320	1705.4	-2.9	2	26-85	1	P	C4	17 NOV 86	
10 NOV 86	2250	1682.3	-3.4	2	1304-82	1	P	C4	17 NOV 86	
17 NOV 86	2333	1702.3	-1.7	2	310-83	1	P	C4	09 DEC 86	
01 DEC 86	2336	1710.7	-3.7	2	1138-82	1	P	C4	23 DEC 86	
08 DEC 86	2324	1711.4		1	249-85	1	P	C4	23 DEC 86	
15 DEC 86	2323	1687.0	3.2	2	542-85	1	P	C4	30 DEC 86	
22 DEC 86	2230	1694.8	-4.5	2	508-85	1	P	C4	30 DEC 86	
29 DEC 86	2310	1704.9	1.3	2	342-85	1	P	C4	09 JAN 87	
05 JAN 87	2323	1703.3	8.3	2	192-83	1	P	C4	09 JAN 87	
12 JAN 87	2314	1712.9	2.1	2	738-85	1	P	C4	03 FEB 87	
21 JAN 87	2206	1724.2	.6	2	174-85	1	P	C4	03 FEB 87	
26 JAN 87	2322	1724.8	.5	2	566-85	1	P	C4	11 FEB 87	
02 FEB 87	2313	1704.4	7.2	2	780-83	1	P	C4	11 FEB 87	
09 FEB 87	2320	1700.3	-2.8	2	1564-82	1	P	C4	24 FEB 87	
17 FEB 87	2318	1678.4	3.6	2	522-83	1	P	C4	04 MAR 87	
23 FEB 87	2325	1670.4	6.5	2	1292-82	1	P	C4	04 MAR 87	
02 MAR 87	2327	1698.3	5.1	2	842-85	1	P	C4	13 MAR 87	
09 MAR 87	2315	1693.7	-5.6	2	306-83	1	P	C4	13 MAR 87	
16 MAR 87	2325	1690.7	-1.2	2	408-85	1	P	C4	25 MAR 87	

Kumukahi, Hawaii (KUM)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
23 MAR 87	2201	1703.1	-6.0	2	34-85	1	P	C4	25 MAR 87	
30 MAR 87	2307	1714.6	-6.0	3	418-83	1	P	C4	22 APR 87	
06 APR 87	2324	1698.4	0.0	2	512-83	1	P	C4	22 APR 87	
13 APR 87	2329	1678.5	4.1	2	796-83	1	P	C4	30 APR 87	
21 APR 87	2327	1694.1	-.5	2	270-85	1	P	C4	28 APR 87	
05 MAY 87	0130	1680.6	3.5	2	330-85	1	P	C4	13 MAY 87	
11 MAY 87	2324	1720.5	6.4	2	566-85	1	P	C4	01 JUN 87	
18 MAY 87	2303	1692.9	7.2	2	2002-87	3	P	C4	26 MAY 87	
18 MAY 87	2314	1687.2	-3.7	2	810-85	1	P	C4	26 MAY 87	
18 MAY 87	2325	1697.2	1.3	2	2004-87	3	P	C4	26 MAY 87	
18 MAY 87	2336	1689.3	5.2	2	2006-87	3	P	C4	26 MAY 87	
18 MAY 87	2347	1687.3	-.9	2	2008-87	3	P	C4	26 MAY 87	
18 MAY 87	2358	1695.9	1.2	2	2010-87	3	P	C4	26 MAY 87	
19 MAY 87	0010	1683.5	-4.2	3	100-85	1	P	C4	26 MAY 87	
26 MAY 87	2314	1695.0	5.3	2	560-85	1	P	C4	01 JUN 87	
01 JUN 87	2306	1691.1	2.3	2	24-85	1	P	C4	15 JUN 87	
08 JUN 87	2322	1697.9	-2.6	2	798-82	1	P	C4	15 JUN 87	
29 JUN 87	2347	1707.1	-5.5	3	822-85	1	P	C4	08 JUL 87	
06 JUL 87	2309	1668.2	2.6	2	316-83	1	P	C4	22 JUL 87	
13 JUL 87	2309	1683.0	-.6	2	774-85	1	P	C4	22 JUL 87	
27 JUL 87	2328	1686.5	3.8	2	390-85	1	P	C4	30 JUL 87	
03 AUG 87	2342	1685.1	-4.4	2	422-83	1	P	C4	04 SEP 87	
17 AUG 87	2319	1646.4	-1.8	2	2020-87	3	P	C4	02 SEP 87	
17 AUG 87	2330	1643.6	-1.2	2	2024-87	3	P	C4	02 SEP 87	
17 AUG 87	2346	1646.1	3.0	2	3028-84	5	T	C4	02 SEP 87	
17 AUG 87	2354	1644.5	-4.1	2	2022-87	3	P	C4	02 SEP 87	
24 AUG 87	2311	1660.8	-.1	2	812-85	1	P	C4	03 SEP 87	
31 AUG 87	2326	1673.2	-2.8	2	756-83	1	P	C4	03 SEP 87	
31 AUG 87	2328	1667.1	1.8	2	3068-84	5	T	C4	15 SEP 87	
08 SEP 87	2320	1701.0	.7	2	1086-82	1	P	C4	24 SEP 87	
08 SEP 87	2325	1702.9	9.6	2	3102-83	5	T	C4	15 SEP 87	
14 SEP 87	2300	1659.1	-2.1	2	310-83	1	P	C4	24 SEP 87	
14 SEP 87	2302	1661.1	2.4	2	3052-84	5	T	C4	29 SEP 87	
21 SEP 87	2255	1697.8	-4.8	2	806-83	1	P	C4	30 SEP 87	
21 SEP 87	2301	1698.5	-1.4	2	3028-83	5	T	C4	29 SEP 87	
28 SEP 87	2316	1659.3	3.6	2	716-85	1	P	C4	30 SEP 87	
28 SEP 87	2318	1663.1	-5.0	2	3004-84	5	T	C4	08 OCT 87	
05 OCT 87	2240	1692.1	2.0	2	411-85	1	P	C4	26 OCT 87	
05 OCT 87	2240	1698.4		1	412-85	1	P	C4	26 OCT 87	
05 OCT 87	2245	1688.7	-3.1	2	3062-83	5	T	C4	08 OCT 87	
13 OCT 87	2317	1685.1	2.9	2	154-85	1	P	C4	26 OCT 87	
13 OCT 87	2323	1690.3	-12.9	3	3054-83	5	T	C4	28 OCT 87	
19 OCT 87	2310	1703.0	-.9	2	676-85	1	P	C4	28 OCT 87	
19 OCT 87	2315	1703.3	1.2	2	3040-83	5	T	C4	28 OCT 87	
26 OCT 87	2317	1703.3	5.0	2	608-85	1	P	C4	28 OCT 87	
26 OCT 87	2320	1705.6	7.3	2	3102-83	5	T	C4	10 NOV 87	
02 NOV 87	2315	1694.0	3.4	2	116-87	1	P	C4	17 NOV 87	
02 NOV 87	2325	1700.6	3.1	2	3072-84	5	T	C4	10 NOV 87	
09 NOV 87	2326	1697.0	-2.3	2	119-87	1	P	C4	17 NOV 87	
09 NOV 87	2326	1696.0		1	120-87	1	P	C4	17 NOV 87	
09 NOV 87	2330	1698.2	-3.2	2	3074-83	5	T	C4	18 NOV 87	
16 NOV 87	2254	1721.3	6.8	2	3060-83	5	T	C4	18 NOV 87	
23 NOV 87	2351	1719.4	1.7	2	240-87	1	P	C4	08 DEC 87	
23 NOV 87	2352	1715.0	.1	2	3002-83	5	T	C4	08 DEC 87	
30 NOV 87	2255	1716.0	.4	2	3078-84	5	T	C4	08 DEC 87	
07 DEC 87	2315	1729.5	1.5	2	122-85	1	P	C4	15 DEC 87	
07 DEC 87	2317	1731.0	-2.1	2	3070-84	5	T	C4	22 DEC 87	
14 DEC 87	2237	1702.2	-.6	2	352-86	1	P	C4	05 JAN 88	
14 DEC 87	2241	1699.8	-7.0	2	3068-83	5	T	C4	22 DEC 87	
21 DEC 87	2251	1702.5	-8.2	2	3022-84	5	T	C4	02 JAN 88	
28 DEC 87	2304	1722.5	5.2	2	554-87	1	P	C4	06 JAN 88	
28 DEC 87	2306	1719.6	4.9	2	3078-83	5	T	C4	02 JAN 88	
04 JAN 88	2300	1731.0	-4.8	2	551-87	1	P	C4	07 JAN 88	
04 JAN 88	2305	1727.9	-.1	2	3008-83	5	T	C4	13 JAN 88	
11 JAN 88	2315	1685.6	-2.6	2	406-85	1	P	C4	26 JAN 88	

Kumukahi, Hawaii (KUM)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
11 JAN 88	2318	1685.0	6.8	2	3068-84	5	T	C4	13 JAN 88	
19 JAN 88	2322	1693.5	-7.6	2	252-85	1	P	C4	26 JAN 88	
19 JAN 88	2325	1690.0	-1.0	2	3032-85	5	T	C4	03 FEB 88	
25 JAN 88	2318	1695.4	.5	2	288-87	1	P	C4	04 FEB 88	
25 JAN 88	2326	1691.2	-5.2	2	3074-84	5	T	C4	03 FEB 88	
01 FEB 88	2320	1690.8	-2.3	2	32-85	1	P	C4	04 FEB 88	
01 FEB 88	2324	1686.0	-7.0	2	3076-83	5	T	C4	16 FEB 88	
08 FEB 88	2332	1711.9	-3.3	2	3098-83	5	T	C4	16 FEB 88	
16 FEB 88	2317	1695.2	6.4	2	322-85	1	P	C4	24 FEB 88	
16 FEB 88	2319	1693.1	4.2	2	3070-84	5	T	C4	29 FEB 88	
22 FEB 88	2314	1670.6	2.1	2	364-86	1	P	C4	02 MAR 88	
22 FEB 88	2323	1682.0	-2.4	2	3002-84	5	T	C4	29 FEB 88	
29 FEB 88	2313	1724.3	1.8	2	372-86	1	P	C4	02 MAR 88	
29 FEB 88	2315	1727.3	-8.0	2	3040-83	5	T	C4	09 MAR 88	
07 MAR 88	2323	1710.7	1.0	2	106-87	1	P	C4	23 MAR 88	
07 MAR 88	2326	1709.3	8.6	2	3046-84	5	T	C4	09 MAR 88	
14 MAR 88	2300	1709.4	3.6	2	327-86	1	P	C4	23 MAR 88	
14 MAR 88	2306	1708.6	-6.3	2	3056-84	5	T	C4	24 MAR 88	
21 MAR 88	2312	1706.3	1.0	2	126-85	1	P	C4	11 APR 88	
21 MAR 88	2314	1703.6	4.1	2	3050-83	5	T	C4	24 MAR 88	
04 APR 88	2325	1702.6	4.0	2	124-85	1	P	C4	11 APR 88	
04 APR 88	2327	1702.1	13.4	3	3064-84	5	T	C4	26 APR 88	
12 APR 88	0127	1735.8	-3.6	2	88-85	1	P	C4	21 APR 88	
12 APR 88	0130	1730.4	-.4	2	3052-84	5	T	C4	26 APR 88	
18 APR 88	2320	1704.7	1.1	2	96-85	1	P	C4	21 APR 88	
18 APR 88	2322	1704.8	-4.5	2	3034-85	5	T	C4	04 MAY 88	
25 APR 88	2315	1725.3	1.4	2	4-85	1	P	C4	13 MAY 88	
25 APR 88	2318	1722.2	3.0	2	3010-84	5	T	C4	04 MAY 88	
02 MAY 88	2315	1709.9	3.7	2	274-86	1	P	C4	13 MAY 88	
02 MAY 88	2317	1707.2	-2.0	2	3036-84	5	T	C4	13 MAY 88	
09 MAY 88	2335	1706.6	4.0	2	586-87	1	P	C4	23 MAY 88	
09 MAY 88	2337	1720.0	-1.2	2	3098-84	5	T	C4	13 MAY 88	
16 MAY 88	2320	1695.4	1.6	2	370-86	1	P	C4	23 MAY 88	
16 MAY 88	2326	1700.5	-4.8	2	3026-84	5	T	C4	01 JUN 88	
23 MAY 88	2307	1700.1	1.4	2	330-86	1	P	C4	14 JUN 88	
23 MAY 88	2310	1699.6	0.0	2	3020-85	5	T	C4	01 JUN 88	
31 MAY 88	2314	1701.7	13.9	3	3022-83	5	T	C4	15 JUN 88	
06 JUN 88	2320	1669.8	4.1	2	370-85	1	P	C4	20 JUN 88	
06 JUN 88	2323	1676.0	4.5	2	3062-83	5	T	C4	15 JUN 88	
13 JUN 88	2309	1700.9	7.8	2	126-85	1	P	C4	20 JUN 88	
13 JUN 88	2315	1694.9	4.8	3	3090-84	5	T	C4	22 JUN 88	
20 JUN 88	2326	1704.2	-3.3	2	230-86	1	P	C4	01 JUL 88	
20 JUN 88	2330	1698.2	2.6	3	3084-84	5	T	C4	22 JUN 88	
28 JUN 88	2313	1680.3	-1.9	2	358-86	1	P	C4	01 JUL 88	
28 JUN 88	2318	1676.1	0.0	2	3092-83	5	T	C4	19 JUL 88	
05 JUL 88	2323	1686.0	-4.9	2	3030-85	5	T	C4	19 JUL 88	
11 JUL 88	2257	1695.3	-5.4	2	450-85	1	P	C4	18 JUL 88	
11 JUL 88	2305	1697.2	5.2	2	3008-85	5	T	C4	09 AUG 88	
18 JUL 88	2325	1662.5	-1.1	2	3016-84	5	T	C4	09 AUG 88	
25 JUL 88	2318	1664.2	5.9	2	154-85	1	P	C4	16 AUG 88	
25 JUL 88	2319	1664.5	0.0	2	3026-84	5	T	C4	09 AUG 88	
01 AUG 88	2313	1667.6	.7	2	220-86	1	P	C4	17 AUG 88	
01 AUG 88	2317	1664.4	-.5	2	3100-83	5	T	C4	09 AUG 88	
08 AUG 88	2312	1685.3	5.3	2	324-85	1	P	C4	17 AUG 88	
08 AUG 88	2316	1685.6	-8.2	2	3022-84	5	T	C4	18 AUG 88	
15 AUG 88	2313	1675.3	-1.0	2	684-85	1	P	C4	30 AUG 88	
15 AUG 88	2315	1673.4	2.0	2	3016-85	5	T	C4	18 AUG 88	
22 AUG 88	2359	1698.3	-3.8	2	3036-84	5	T	C4	01 SEP 88	
29 AUG 88	2312	1693.5	3.9	2	3098-84	5	T	C4	01 SEP 88	
06 SEP 88	2312	1668.5	-5.4	2	230-86	1	P	C4	16 SEP 88	
06 SEP 88	2313	1665.6	7.0	2	3004-88	1	T	C4	19 SEP 88	
12 SEP 88	2304	1690.0	-5.3	2	3006-88	1	T	C4	19 SEP 88	
19 SEP 88	2327	1714.1	3.2	2	3002-84	5	T	C4	04 OCT 88	
27 SEP 88	2257	1692.5	3.8	2	21-85	1	P	C4	19 OCT 88	
27 SEP 88	2257	1689.6		1	22-85	1	P	C4	18 OCT 88	

Kumukahi, Hawaii (KUM)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
27 SEP 88	2302	1689.7	1.6	2	3032-84	5	T	C4	04 OCT 88	
03 OCT 88	2326	1698.8	1.9	2	3056-84	5	T	C4	18 OCT 88	
11 OCT 88	2304	1698.4	5.9	2	654-85	1	P	C4	24 OCT 88	
11 OCT 88	2306	1688.2	1.4	2	3076-83	5	T	C4	18 OCT 88	
18 OCT 88	2248	1687.0	5.9	2	124-87	1	P	C4	24 OCT 88	
18 OCT 88	2250	1695.7	-.5	2	3006-60	5	T	C4	27 OCT 88	
24 OCT 88	2307	1681.4	.8	2	70-81	1	P	C4	04 NOV 88	
24 OCT 88	2314	1685.3	-1.2	2	3002-60	5	T	C4	27 OCT 88	
31 OCT 88	2305	1717.0	-2.7	2	72-81	1	P	C4	04 NOV 88	
31 OCT 88	2307	1716.1	3.0	2	3026-60	5	T	C4	10 NOV 88	
07 NOV 88	2253	1704.3	3.6	2	3032-60	5	T	C4	10 NOV 88	
14 NOV 88	2253	1719.5	-.3	2	92-81	1	P	C4	22 NOV 88	
14 NOV 88	2255	1714.6	-.2	2	3042-60	5	T	C4	01 DEC 88	
21 NOV 88	2231	1724.8	-3.0	2	162-81	1	P	C4	02 DEC 88	
21 NOV 88	2233	1726.6	7.4	2	3048-83	5	T	C4	01 DEC 88	
28 NOV 88	2315	1710.1	-4.5	2	124-81	1	P	C4	02 DEC 88	
28 NOV 88	2316	1706.7	-2.6	2	3134-70	5	T	C4	08 DEC 88	
05 DEC 88	2312	1674.0	-3.1	2	3132-70	5	T	C4	08 DEC 88	
12 DEC 88	2302	1725.0	-4.0	2	408-81	1	P	C4	21 DEC 88	
12 DEC 88	2306	1727.8	-.7	2	3090-60	5	T	C4	03 JAN 89	
19 DEC 88	2225	1684.0	3.8	2	3020-60	5	T	C4	03 JAN 89	

Mould Bay, Canada (MBC)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
09 JAN 86	1745	1782.7	-5.6	2	798-82	1	P	C4	03 FEB 86	+
16 JAN 86	1635	1783.4	-2.3	2	99-83	1	P	C4	27 FEB 86	+
24 JAN 86	1355	1757.0	-1.1	2	680-83	1	P	C4	27 FEB 86	
31 JAN 86	0100	1790.5	-4.9	2	8-83	1	P	C4	31 MAR 86	+
10 FEB 86	1410	1750.7		1	540-83	1	P	C4	31 MAR 86	
17 FEB 86	1405	1797.9	.3	2	714-85	1	P	C4	31 MAR 86	+
25 FEB 86	0230	1760.5	8.4	2	626-83	1	P	C4	31 MAR 86	
10 MAR 86	1610	1816.7	-.1	2	330-83	1	P	C4	31 MAR 86	+
25 MAR 86	0230	1764.2	6.2	2	1604-82	1	P	C4	24 APR 86	
31 MAR 86	2000	1764.6	-14.5	3	430-85	1	P	C4	24 APR 86	
08 APR 86	0215	1759.8		1	628-83	1	P	C4	31 MAY 86	
14 APR 86	2330	1747.5	2.0	2	1010-82	1	P	C4	31 MAY 86	
22 APR 86	2000	1745.1	7.2	2	708-85	1	P	C4	28 MAY 86	
29 APR 86	0430	1761.4	4.9	2	1478-82	1	P	C4	12 JUN 86	
05 MAY 86	9999	1740.4	-7.5	2	404-82	1	P	C4	12 JUN 86	
13 MAY 86	0238	1738.1	3.0	2	1546-82	1	P	C4	12 JUN 86	
19 MAY 86	1358	1741.1	4.8	2	1332-82	1	P	C4	30 JUL 86	
26 MAY 86	1355	1735.2	4.5	2	834-83	1	P	C4	30 JUL 86	
02 JUN 86	1340	1729.3	-2.2	2	64-85	1	P	C4	30 JUL 86	
06 JUN 86	0230	1726.1	1.0	2	68-85	1	P	C4	30 JUL 86	
13 JUN 86	1505	1720.1	-.8	2	69-85	1	P	C4	09 AUG 86	
19 JUN 86	1405	1716.0	.8	2	846-83	1	P	C4	29 JUL 86	
26 JUN 86	1325	1724.1	-7.7	2	50-83	1	P	C4	09 AUG 86	
01 JUL 86	0146	1715.4	4.1	2	1540-82	1	P	C4	29 JUL 86	
08 JUL 86	0149	1720.8	5.6	2	674-83	1	P	C4	10 AUG 86	
14 JUL 86	1310	1711.4	3.0	2	704-83	1	P	C4	10 AUG 86	
21 JUL 86	1515	1718.7	-4.5	2	1318-82	1	P	C4	10 AUG 86	
29 JUL 86	0108	1721.7	7.2	2	1172-82	1	P	C4	20 SEP 86	
05 AUG 86	1445	1715.8	-1.0	2	1094-82	1	P	C4	20 SEP 86	
19 AUG 86	1635	1714.8	3.4	3	286-83	1	P	C4	19 SEP 86	
25 AUG 86	2120	1718.1	8.2	2	750-82	1	P	C4	20 SEP 86	
01 SEP 86	0240	1713.8	0.0	2	508-85	1	P	C4	16 OCT 86	
09 SEP 86	0134	1721.6	11.0	3	1564-82	1	P	C4	16 OCT 86	
15 SEP 86	1250	1734.9	2.6	2	1742-82	1	P	C4	16 OCT 86	
22 SEP 86	2330	1736.2	-7.1	2	542-85	1	P	C4	16 OCT 86	
29 SEP 86	1240	1745.8	-2.2	2	174-83	1	P	C4	13 NOV 86	
08 OCT 86	0420	1765.2	-3.0	2	780-83	1	P	C4	13 NOV 86	
13 OCT 86	2300	1766.7	6.2	2	66-85	1	P	C4	14 NOV 86	
20 OCT 86	1340	1772.3	-3.9	2	278-85	1	P	C4	14 NOV 86	
30 OCT 86	1340	1771.9	-13.0	3	188-85	1	P	C4	10 DEC 86	
06 NOV 86	1330	1766.7	-5.9	2	120-84	1	P	C4	10 DEC 86	
13 NOV 86	1400	1768.8	-.2	2	556-85	1	P	C4	22 JAN 87	
18 NOV 86	0240	1744.4	-.6	2	1578-82	1	P	C4	22 JAN 87	
08 DEC 86	9999	1742.4	-.6	2	706-85	1	P	C4	22 JAN 87	
12 DEC 86	9999	1780.7	-6.4	2	8-85	1	P	C4	22 JAN 87	
22 DEC 86	1225	1816.5	3.9	2	860-83	1	P	C4	05 MAR 87	+
02 JAN 87	0030	1816.3	3.7	2	1332-82	1	P	C4	05 MAR 87	+
16 JAN 87	2250	1783.6	2.8	2	284-85	1	P	C4	05 MAR 87	
23 JAN 87	0200	1845.9	-3.5	2	756-83	1	P	C4	05 MAR 87	+
27 JAN 87	0200	1791.2	6.3	2	288-85	1	P	C4	05 MAR 87	
03 FEB 87	0230	1755.7	-4.8	2	384-85	1	P	C4	05 MAR 87	
09 FEB 87	1350	1767.0	.9	2	694-83	1	P	C4	04 MAR 87	
16 FEB 87	1410	1780.4	-1.6	2	1484-82	1	P	C4	21 MAY 87	
24 FEB 87	2350	1755.7	2.8	2	290-85	1	P	C4	26 MAY 87	
02 MAR 87	1219	1758.5	-3.5	2	1149-82	1	P	C4	21 MAY 87	
09 MAR 87	1341	1781.8	-2.9	2	630-83	1	P	C4	28 APR 87	
16 MAR 87	1345	1792.3	-3.5	2	899-83	1	P	C4	28 APR 87	
23 MAR 87	1339	1775.1	1.2	2	176-85	1	P	C4	28 APR 87	
30 MAR 87	1343	1766.8	.8	2	327-85	1	P	C4	28 APR 87	
07 APR 87	1220	1750.3	1.3	2	351-85	1	P	C4	26 MAY 87	
13 APR 87	1235	1788.1	-5.8	2	179-85	1	P	C4	21 MAY 87	
20 APR 87	2245	1776.6	-3.1	2	920-82	1	P	C4	21 MAY 87	
27 APR 87	1230	1761.8	7.1	2	826-83	1	P	C4	15 JUN 87	
04 MAY 87	1330	1759.4	2.9	2	4-85	1	P	C4	15 JUN 87	

Mould Bay, Canada (MBC)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
11 MAY 87	1400	1770.9	-3.9	2	876-83	1	P	C4	15 JUN 87	
18 MAY 87	1300	1752.2	.2	2	1078-82	1	P	C4	08 JUL 87	
25 MAY 87	1340	1745.1	-3.8	2	586-85	1	P	C4	08 JUL 87	
01 JUN 87	0045	1746.8	-1.7	2	332-85	1	P	C4	08 JUL 87	
08 JUN 87	1418	1744.7	-1.8	2	742-85	1	P	C4	12 AUG 87	
15 JUN 87	1130	1729.2	1.6	2	948-82	1	P	C4	12 AUG 87	
22 JUN 87	1300	1723.3	3.5	2	687-85	1	P	C4	12 AUG 87	
29 JUN 87	1451	1719.7	-4.1	2	786-85	1	P	C4	04 DEC 87	
20 JUL 87	1435	1737.1	7.0	2	198-85	1	P	C4	15 SEP 87	
27 JUL 87	1330	1734.8	2.1	2	108-85	1	P	C4	04 DEC 87	
03 AUG 87	1315	1742.0	.3	2	608-85	1	P	C4	15 SEP 87	
10 AUG 87	1445	1728.2	-2.4	2	270-85	1	P	C4	26 OCT 87	
17 AUG 87	2154	1730.1	-.9	2	34-82	1	P	C4	26 OCT 87	
24 AUG 87	1315	1742.6	-5.4	2	802-85	1	P	C4	26 OCT 87	
31 AUG 87	1442	1733.8	-2.4	2	794-85	1	P	C4	26 OCT 87	
07 SEP 87	1344	1740.1	-.1	2	8-85	1	P	C4	26 OCT 87	
14 SEP 87	1320	1744.6	2.9	2	416-85	1	P	C4	26 OCT 87	
21 SEP 87	1525	1749.8	4.1	2	330-85	1	P	C4	04 DEC 87	
28 SEP 87	1326	1768.5	-6.2	2	316-83	1	P	C4	28 OCT 87	
01 OCT 87	1336	1770.3	2.4	2	392-85	1	P	C4	28 OCT 87	
09 OCT 87	1350	1771.5	-1.0	2	510-83	1	P	C4	08 DEC 87	
15 OCT 87	1355	1771.1	3.2	2	806-85	1	P	C4	08 DEC 87	
19 OCT 87	1401	1767.9	2.8	2	470-83	1	P	C4	04 DEC 87	
26 OCT 87	1341	1759.1	-1.3	2	472-83	1	P	C4	04 DEC 87	
02 NOV 87	1329	1759.5	3.5	2	492-83	1	P	C4	31 DEC 87	
09 NOV 87	9999	1775.0	-1.4	2	604-83	1	P	C4	31 DEC 87	
14 NOV 87	1430	1768.9	-1.5	2	841-85	1	P	C4	13 JAN 88	
23 NOV 87	1333	1766.2	-6.0	2	384-85	1	P	C4	13 JAN 88	
30 NOV 87	1100	1780.2	.1	2	787-85	1	P	C4	13 JAN 88	
07 DEC 87	1345	1762.2	.2	2	560-85	1	P	C4	26 JAN 88	
14 DEC 87	1318	1799.9	2.1	2	104-85	1	P	C4	26 JAN 88	
21 DEC 87	1347	1786.5	-9.6	2	56-85	1	P	C4	04 FEB 88	
25 DEC 87	1103	1788.4	-6.8	2	40-85	1	P	C4	03 FEB 88	
31 DEC 87	1250	1774.3	-4.6	2	18-85	1	P	C4	04 FEB 88	
07 JAN 88	1253	1763.4	.6	2	586-87	1	P	C4	29 FEB 88	
18 JAN 88	1310	1868.5	-12.6	3	564-87	1	P	C4	29 FEB 88	+
25 JAN 88	1250	1823.3	1.5	2	572-87	1	P	C4	29 FEB 88	
01 FEB 88	1425	1779.7	6.3	2	566-87	1	P	C4	23 MAR 88	
08 FEB 88	1223	1771.3	6.0	2	576-87	1	P	C4	23 MAR 88	
15 FEB 88	1310	1794.7	-.2	2	578-87	1	P	C4	23 MAR 88	
18 FEB 88	1305	1777.7	.6	2	584-87	1	P	C4	12 APR 88	
29 FEB 88	1530	1802.5	-3.1	2	246-85	1	P	C4	11 APR 88	
07 MAR 88	1245	1792.8	4.8	2	280-87	1	P	C4	13 APR 88	
14 MAR 88	1415	1763.7	-7.7	2	150-85	1	P	C4	29 APR 88	
21 MAR 88	1015	1797.3	2.5	2	233-87	1	P	C4	29 APR 88	
28 MAR 88	1400	1798.7	1.5	2	290-87	1	P	C4	29 APR 88	
05 APR 88	1530	1804.2	-6.3	2	288-87	1	P	C4	31 MAY 88	
11 APR 88	1430	1781.8	-6.7	2	598-87	1	P	C4	31 MAY 88	
18 APR 88	1415	1765.8	-1.5	2	602-87	1	P	C4	31 MAY 88	
25 APR 88	1323	1774.0	9.8	2	606-87	1	P	C4	12 JUL 88	
02 MAY 88	1420	1782.8	-8.0	2	570-87	1	P	C4	12 JUL 88	
09 MAY 88	1340	1783.4	-2.2	2	556-87	1	P	C4	12 JUL 88	
16 MAY 88	1325	1759.0	-5.1	2	572-87	1	P	C4	12 JUL 88	
23 MAY 88	1437	1750.8	12.1	3	581-87	1	P	C4	12 JUL 88	
23 MAY 88	1437	1746.8	18.8	2	582-87	1	P	C4	12 JUL 88	
30 MAY 88	0638	1744.4	3.5	2	124-85	1	P	C4	12 JUL 88	
06 JUN 88	1107	1743.7	-20.5	2	350-85	1	P	C4	09 AUG 88	
13 JUN 88	1345	1747.0	-8.0	2	266-86	1	P	C4	09 AUG 88	
20 JUN 88	1107	1740.5	2.8	2	534-87	1	P	C4	10 AUG 88	
30 JUN 88	1103	1743.3	2.1	2	544-85	1	P	C4	30 AUG 88	
07 JUL 88	1116	1729.7	-.4	2	378-86	1	P	C4	30 AUG 88	
14 JUL 88	1110	1717.4	.5	2	238-87	1	P	C4	30 AUG 88	
21 JUL 88	1106	1737.6	6.0	2	402-85	1	P	C4	31 AUG 88	
28 JUL 88	1300	1738.9	-3.3	2	506-85	1	P	C4	31 AUG 88	
04 AUG 88	1112	1731.0	-2.8	2	160-85	1	P	C4	31 AUG 88	

Mould Bay, Canada (MBC)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
11 AUG 88	1345	1737.4	3.1	2	560-85	1	P	C4	22 SEP 88	
19 AUG 88	1330	1747.3	-.2	2	322-85	1	P	C4	22 SEP 88	
01 SEP 88	1500	1738.2	-2.8	2	318-85	1	P	C4	27 OCT 88	
08 SEP 88	9999	1743.8	3.5	2	82-87	1	P	C4	27 OCT 88	
15 SEP 88	1322	1750.8	1.9	2	90-85	1	P	C4	27 OCT 88	
22 SEP 88	1430	1753.8	1.9	2	250-85	1	P	C4	27 OCT 88	
29 SEP 88	1315	1771.3	.4	2	674-85	1	P	C4	22 NOV 88	
06 OCT 88	1247	1768.4	12.0	3	224-86	1	P	C4	22 NOV 88	
13 OCT 88	0132	1773.3	1.2	2	122-87	1	P	C4	22 NOV 88	
20 OCT 88	9999	1781.6	-8.9	2	4-81	1	P	C4	22 NOV 88	
27 OCT 88	1218	1775.7	-3.7	2	6-81	1	P	C4	12 DEC 88	
03 NOV 88	1330	1790.9	-1.6	2	12-81	1	P	C4	12 DEC 88	
13 NOV 88	0813	1779.3	.3	2	112-81	1	P	C4	12 DEC 88	
18 NOV 88	0410	1784.2	8.9	2	526-81	1	P	C4	04 JAN 89	
24 NOV 88	1450	1766.8	-3.4	2	545-81	1	P	C4	04 JAN 89	
02 DEC 88	1455	1807.2		1	539-81	1	P	C4	31 JAN 89	
02 DEC 88	1455	1815.4		1	540-81	1	P	C4	30 JAN 89	
05 DEC 88	1250	1786.5	7.5	2	538-81	1	P	C4	30 JAN 89	

McMurdo, Antarctica (MCM)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
01 JAN 86	0800	1582.3	5.7	2	718-85	1	P	C4	14 FEB 86	
16 JAN 86	0215	1592.7	7.5	2	1082-82	1	P	C4	01 APR 86	
30 JAN 86	2330	1580.4	0.0	2	416-85	1	P	C4	01 APR 86	
18 FEB 86	0000	1572.4	5.3	2	908-83	1	P	C4	11 SEP 86	
02 MAR 86	0200	1580.0	.1	2	1830-82	1	P	C4	11 SEP 86	
16 MAR 86	2200	1577.6	1.3	2	348-83	1	P	C4	11 SEP 86	
01 APR 86	2300	1582.2	-3.1	2	702-85	1	P	C4	11 SEP 86	
16 APR 86	0300	1584.4	.4	2	904-83	1	P	C4	11 SEP 86	
02 MAY 86	0300	1587.6	9.1	2	538-83	1	P	C4	11 SEP 86	
02 JUN 86	2300	1591.6	-.4	2	676-83	1	P	C4	11 SEP 86	
16 JUN 86	2200	1593.1	5.5	2	1028-82	1	P	C4	11 SEP 86	
03 JUL 86	0400	1604.7	9.0	2	822-83	1	P	C4	11 SEP 86	
16 JUL 86	0200	1607.2	-6.7	2	34-83	1	P	C4	11 SEP 86	
03 AUG 86	2140	1603.5	-7.5	2	1680-82	1	P	C4	11 SEP 86	
01 SEP 86	0000	1618.6	4.0	2	920-82	1	P	C4	09 JAN 87	
16 SEP 86	0630	1612.4	-1.6	2	880-83	1	P	C4	09 JAN 87	
01 OCT 86	0230	1613.9	-3.6	2	390-85	1	P	C4	09 JAN 87	
16 OCT 86	0900	1613.3	1.0	2	826-83	1	P	C4	09 JAN 87	
02 NOV 86	0200	1615.6	2.2	2	222-83	1	P	C4	09 JAN 87	
16 NOV 86	0400	1607.1	-2.0	2	74-83	1	P	C4	09 JAN 87	
30 NOV 86	2140	1609.8	-4.6	2	916-83	1	P	C4	20 APR 87	
16 DEC 86	0500	1603.2	6.2	2	726-82	1	P	C4	20 APR 87	
03 JAN 87	0630	1602.4	5.4	2	446-83	1	P	C4	20 APR 87	
19 JAN 87	0800	1597.2	-1.3	2	948-82	1	P	C4	20 APR 87	
05 FEB 87	0115	1591.8	5.4	2	832-83	1	P	C4	20 APR 87	
22 FEB 87	1300	1590.5	-3.8	2	20-85	1	P	C4	06 OCT 87	
04 MAR 87	0330	1590.8	2.5	2	790-85	1	P	C4	06 OCT 87	
20 APR 87	0400	1595.4		1	312-85	1	P	C4	06 OCT 87	
04 MAY 87	1900	1605.1	3.2	2	326-85	1	P	C4	06 OCT 87	
24 JUN 87	1600	1618.0	2.5	2	98-85	1	P	C4	11 DEC 87	
23 JUL 87	9999	1619.1	-3.7	2	492-85	1	P	C4	11 DEC 87	
06 OCT 87	0745	1624.2	8.2	2	512-85	1	P	C4	11 DEC 87	
09 OCT 87	1500	1620.6	.2	2	344-85	1	P	C4	11 DEC 87	
12 OCT 87	2315	1625.8	3.4	2	370-85	1	P	C4	11 DEC 87	
15 OCT 87	1400	1627.3	-3.9	2	322-85	1	P	C4	11 DEC 87	

Sand Island, Midway (MID)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
01 JAN 86	0300	1714.2	6.4	2	1164-82	1	P	C4	11 FEB 86	
04 JAN 86	0200	1700.9	-9.3	2	1478-82	1	P	C4	04 FEB 86	
08 JAN 86	0200	1722.0	-5.4	2	850-82	1	P	C4	05 FEB 86	
11 JAN 86	0200	1688.6	8.3	2	840-81	1	P	C4	29 JAN 86	
15 JAN 86	0200	1683.9	5.6	2	804-82	1	P	C4	29 JAN 86	
18 JAN 86	0200	1727.9	1.4	2	1218-82	1	P	C4	12 FEB 86	
22 JAN 86	0300	1689.2	-.3	2	1178-82	1	P	C4	13 FEB 86	
25 JAN 86	0300	1695.8	2.4	2	948-83	1	P	C4	13 FEB 86	
01 FEB 86	0200	1716.4	-5.8	2	750-82	1	P	C4	18 FEB 86	
05 FEB 86	0300	1697.0	.1	2	622-83	1	P	C4	14 FEB 86	
08 FEB 86	0200	1685.1		1	1114-82	1	P	C4	18 FEB 86	
12 FEB 86	0200	1718.2		1	196-83	1	P	C4	18 FEB 86	
15 FEB 86	0300	1721.5	1.6	2	838-85	1	P	C4	11 MAR 86	
19 FEB 86	0200	1732.5	10.4	3	210-83	1	P	C4	13 MAR 86	
22 FEB 86	0400	1727.9	4.1	2	46-85	1	P	C4	10 MAR 86	
26 FEB 86	0300	1715.0	-11.7	3	12-85	1	P	C4	10 MAR 86	
05 MAR 86	0300	1715.6	3.6	2	838-83	1	P	C4	13 MAR 86	
08 MAR 86	0200	1729.0	4.7	2	220-85	1	P	C4	22 APR 86	
12 MAR 86	0300	1736.5	1.7	2	478-82	1	P	C4	22 APR 86	
15 MAR 86	0300	1693.7	-6.3	2	716-85	1	P	C4	01 APR 86	
19 MAR 86	0200	1719.0	1.5	2	1162-82	1	P	C4	22 APR 86	
22 MAR 86	0300	1702.0	-7.1	2	734-81	1	P	C4	01 APR 86	
26 MAR 86	0300	1691.9	2.3	2	406-82	1	P	C4	01 APR 86	
02 APR 86	0300	1699.3	2.5	2	636-83	1	P	C4	18 APR 86	
09 APR 86	0300	1657.6		1	266-83	1	P	C4	18 APR 86	
16 APR 86	0300	1705.6	7.5	2	560-85	1	P	C4	01 MAY 86	
23 APR 86	0300	1679.1	-3.1	2	750-82	1	P	C4	01 MAY 86	
30 APR 86	0300	1687.9	-3.7	2	578-83	1	P	C4	31 MAY 86	
07 MAY 86	0300	1722.3	.2	2	976-83	1	P	C4	31 MAY 86	
14 MAY 86	0230	1721.2		1	54-85	1	P	C4	11 JUN 86	
21 MAY 86	0300	1700.9	-7.6	2	8-85	1	P	C4	11 JUN 86	
28 MAY 86	0200	1715.3	1.6	2	1006-82	1	P	C4	07 AUG 86	
04 JUN 86	0230	1704.6	-1.8	2	198-82	1	P	C4	07 AUG 86	
11 JUN 86	0200	1675.4	.9	2	512-82	1	P	C4	08 JUL 86	
18 JUN 86	0200	1698.8	6.2	2	836-83	1	P	C4	23 JUL 86	
25 JUN 86	0200	1673.1	-.5	2	556-85	1	P	C4	30 JUL 86	
02 JUL 86	0200	1693.2	-2.9	2	720-85	1	P	C4	30 JUL 86	
09 JUL 86	0200	1670.2	-1.7	2	168-85	1	P	C4	29 JUL 86	
16 JUL 86	0200	1659.9	-2.3	2	662-83	1	P	C4	29 JUL 86	
30 JUL 86	0200	1681.8	2.5	2	628-83	1	P	C4	10 AUG 86	
06 AUG 86	0200	1665.2	.8	2	1652-82	1	P	C4	18 SEP 86	
13 AUG 86	0200	1652.2	1.1	2	198-85	1	P	C4	19 SEP 86	
20 AUG 86	0200	1666.7	7.6	3	362-85	1	P	C4	23 SEP 86	
27 AUG 86	0200	1709.3	1.9	2	642-83	1	P	C4	23 SEP 86	
03 SEP 86	0200	1657.2	-3.0	2	424-85	1	P	C4	18 SEP 86	
10 SEP 86	0200	1686.2	5.5	2	46-85	1	P	C4	18 SEP 86	
17 SEP 86	0200	1717.4	-6.8	2	308-85	1	P	C4	30 SEP 86	
24 SEP 86	0200	1718.7	-6.8	2	250-85	1	P	C4	30 SEP 86	
01 OCT 86	0200	1727.5	4.8	2	94-85	1	P	C4	14 OCT 86	
08 OCT 86	0200	1718.2	.7	2	320-85	1	P	C4	14 OCT 86	
15 OCT 86	0200	1698.3	-5.1	2	702-85	1	P	C4	12 NOV 86	
22 OCT 86	0200	1702.3	-1.9	2	1668-82	1	P	C4	12 NOV 86	
29 OCT 86	0200	1707.0	-6.5	2	1114-82	1	P	C4	17 NOV 86	
05 NOV 86	0200	1715.6	.6	2	1546-82	1	P	C4	17 NOV 86	
12 NOV 86	0300	1723.6	-1.0	2	278-83	1	P	C4	10 DEC 86	
19 NOV 86	0300	1697.9	-4.4	2	726-85	1	P	C4	10 DEC 86	
26 NOV 86	0300	1734.7	-4.6	2	746-82	1	P	C4	23 DEC 86	
03 DEC 86	0200	1714.4	-4.0	2	816-83	1	P	C4	22 DEC 86	
10 DEC 86	0200	1728.3	-7.2	2	252-85	1	P	C4	30 DEC 86	
17 DEC 86	0200	1709.9	1.3	2	184-85	1	P	C4	30 DEC 86	
24 DEC 86	0200	1750.6	4.5	2	398-85	1	P	C4	07 JAN 87	
31 DEC 86	0200	1726.4	-3.1	2	70-85	1	P	C4	07 JAN 87	
07 JAN 87	0300	1733.1	4.8	2	842-85	1	P	C4	03 FEB 87	
14 JAN 87	0200	1725.7	4.7	2	1192-82	1	P	C4	03 FEB 87	

Sand Island, Midway (MID)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
21 JAN 87	0200	1715.6	3.5	2	558-85	1	P	C4	11 FEB 87	
28 JAN 87	0200	1724.1	-7.1	2	508-83	1	P	C4	11 FEB 87	
04 FEB 87	0200	1736.5	2.1	2	360-85	1	P	C4	24 FEB 87	
11 FEB 87	0200	1733.5	1.6	2	802-83	1	P	C4	18 FEB 87	
18 FEB 87	0200	1711.9	1.1	2	666-83	1	P	C4	13 MAR 87	
25 FEB 87	0200	1747.9	-4.3	2	362-82	1	P	C4	13 MAR 87	
04 MAR 87	0200	1698.8	2.2	2	196-83	1	P	C4	24 MAR 87	
11 MAR 87	0200	1710.2	1.2	2	778-83	1	P	C4	24 MAR 87	
18 MAR 87	0100	1725.8	3.5	2	510-83	1	P	C4	08 APR 87	
25 MAR 87	0200	1740.3	2.6	2	578-85	1	P	C4	08 APR 87	
01 APR 87	0200	1717.3	4.0	2	830-82	1	P	C4	21 APR 87	
08 APR 87	0300	1751.9	-2.1	2	942-83	1	P	C4	21 APR 87	
15 APR 87	0300	1732.3	3.3	2	355-85	1	P	C4	26 MAY 87	
15 APR 87	0300	1728.8		1	356-85	1	P	C4	26 MAY 87	
22 APR 87	0330	1734.0	-3.9	2	392-85	1	P	C4	26 MAY 87	
29 APR 87	0200	1752.9	-1.6	2	1564-82	1	P	C4	13 MAY 87	
06 MAY 87	0300	1738.2	-5.9	2	402-83	1	P	C4	13 MAY 87	
13 MAY 87	0300	1700.3	.8	3	784-85	1	P	C4	01 JUN 87	
20 MAY 87	0300	1713.7	2.9	2	620-85	1	P	C4	09 JUN 87	
27 MAY 87	0200	1727.5	8.7	2	1546-82	1	P	C4	15 JUN 87	
03 JUN 87	0200	1729.4	9.8	3	375-85	1	P	C4	16 JUN 87	
10 JUN 87	0300	1712.0	-5.1	2	1164-82	1	P	C4	30 JUN 87	
17 JUN 87	0300	1713.7	-3.1	2	728-85	1	P	C4	30 JUN 87	
01 JUL 87	0300	1708.1	4.2	2	780-85	1	P	C4	22 JUL 87	
08 JUL 87	0300	1688.7	6.3	2	832-85	1	P	C4	30 JUL 87	
15 JUL 87	0200	1672.9	-.2	2	804-85	1	P	C4	30 JUL 87	
29 JUL 87	0200	1686.4	5.9	2	54-85	1	P	C4	11 AUG 87	
05 AUG 87	0300	1686.7	6.0	2	4-85	1	P	C4	02 SEP 87	
12 AUG 87	0100	1697.4	7.2	2	32-85	1	P	C4	02 SEP 87	
26 AUG 87	0200	1708.2	-1.5	2	630-85	1	P	C4	03 SEP 87	
02 SEP 87	0200	1700.2	-11.8	2	871-83	1	P	C4	30 SEP 87	
09 SEP 87	0100	1699.7	.1	2	506-83	1	P	C4	30 SEP 87	
16 SEP 87	0200	1684.8	3.4	2	906-83	1	P	C4	06 OCT 87	
23 SEP 87	0200	1743.7	-4.3	2	658-85	1	P	C4	06 OCT 87	
30 SEP 87	0200	1742.8	.3	2	162-85	1	P	C4	27 OCT 87	
07 OCT 87	0200	1736.3	-1.6	2	16-85	1	P	C4	27 OCT 87	
14 OCT 87	0200	1744.1	-1.9	2	612-85	1	P	C4	09 NOV 87	
21 OCT 87	0200	1713.6	7.0	2	494-85	1	P	C4	09 NOV 87	
28 OCT 87	0200	1737.0	4.2	2	342-83	1	P	C4	18 NOV 87	
04 NOV 87	0200	1736.4	7.6	2	284-85	1	P	C4	17 NOV 87	
11 NOV 87	0200	1712.4	-7.4	2	278-86	1	P	C4	24 NOV 87	
18 NOV 87	0200	1726.3	3.3	2	690-85	1	P	C4	24 NOV 87	
25 NOV 87	0200	1740.2	3.2	2	680-83	1	P	C4	02 JAN 88	
02 DEC 87	0200	1709.5	-8.7	2	682-83	1	P	C4	02 JAN 88	
09 DEC 87	0200	1745.0	.4	2	280-87	1	P	C4	04 JAN 88	
16 DEC 87	0200	1718.1	-7.2	2	278-87	1	P	C4	04 JAN 88	
23 DEC 87	0200	1714.4	5.0	2	454-85	1	P	C4	06 JAN 88	
30 DEC 87	0200	1733.8	3.2	2	500-85	1	P	C4	06 JAN 88	
06 JAN 88	0200	1725.5	5.4	2	242-87	1	P	C4	26 JAN 88	
13 JAN 88	0200	1735.5	-7.4	2	336-85	1	P	C4	26 JAN 88	
20 JAN 88	0200	1736.3	3.7	2	212-85	1	P	C4	24 FEB 88	
27 JAN 88	0200	1730.0	-9.4	2	240-85	1	P	C4	19 FEB 88	
03 FEB 88	0200	1744.9	-.4	2	408-85	1	P	C4	01 MAR 88	
10 FEB 88	0200	1722.9	-2.1	2	128-85	1	P	C4	01 MAR 88	
17 FEB 88	0200	1734.3	-4.9	2	236-85	1	P	C4	10 MAR 88	
24 FEB 88	0200	1760.8	.1	2	238-86	1	P	C4	10 MAR 88	
03 MAR 88	0200	1751.5	10.9	3	340-86	1	P	C4	23 MAR 88	
09 MAR 88	0200	1712.4	7.1	2	384-85	1	P	C4	23 MAR 88	
23 MAR 88	0200	1708.6	-6.2	2	338-86	1	P	C4	13 APR 88	
30 MAR 88	0200	1707.3	7.5	2	402-85	1	P	C4	29 APR 88	
06 APR 88	0200	1728.1	-3.0	2	238-87	1	P	C4	29 APR 88	
13 APR 88	0200	1706.9	5.4	2	392-85	1	P	C4	16 MAY 88	
20 APR 88	0200	1739.4	-4.8	2	40-85	1	P	C4	17 MAY 88	
27 APR 88	0200	1737.4	11.4	3	84-87	1	P	C4	17 MAY 88	
04 MAY 88	0200	1737.4	-9.8	2	36-85	1	P	C4	17 MAY 88	

Sand Island, Midway (MID)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
11 MAY 88	0200	1720.7	-5.9	2	420-86	1	P	C4	31 MAY 88	
18 MAY 88	0200	1695.0	8.0	2	528-87	1	P	C4	31 MAY 88	
25 MAY 88	0200	1689.7	-.9	2	86-85	1	P	C4	15 JUN 88	
01 JUN 88	0200	1712.0	5.5	2	236-87	1	P	C4	15 JUN 88	
08 JUN 88	0200	1725.8	-2.3	2	338-86	1	P	C4	22 JUN 88	
15 JUN 88	0300	1696.8	3.3	2	406-86	1	P	C4	22 JUN 88	
22 JUN 88	0200	1682.8	5.8	2	302-86	1	P	C4	07 JUL 88	
06 JUL 88	0200	1691.4	6.7	2	306-86	1	P	C4	09 AUG 88	
13 JUL 88	0200	1693.4	-2.7	2	254-86	1	P	C4	11 AUG 88	
20 JUL 88	0200	1726.9	-1.1	2	360-86	1	P	C4	10 AUG 88	
27 JUL 88	0200	1686.8	2.0	2	578-87	1	P	C4	10 AUG 88	
10 AUG 88	0200	1674.0	.5	2	278-86	1	P	C4	26 AUG 88	
17 AUG 88	0200	1664.6	-3.5	2	604-87	1	P	C4	09 SEP 88	
24 AUG 88	0200	1694.0	3.1	2	696-85	1	P	C4	09 SEP 88	
07 SEP 88	0200	1702.1	3.3	2	554-87	1	P	C4	28 SEP 88	
14 SEP 88	0200	1721.9	1.7	2	336-86	1	P	C4	18 OCT 88	
28 SEP 88	0200	1726.7	-4.9	2	316-86	1	P	C4	24 OCT 88	
05 OCT 88	0200	1723.5	.4	2	280-86	1	P	C4	24 OCT 88	
12 OCT 88	0200	1732.0	-3.9	2	164-85	1	P	C4	02 NOV 88	
26 OCT 88	0200	1722.6	5.8	2	156-81	1	P	C4	09 NOV 88	
02 NOV 88	0200	1723.5	4.4	2	158-81	1	P	C4	09 NOV 88	
09 NOV 88	0200	1724.5	6.4	2	27-85	1	P	C4	02 DEC 88	
16 NOV 88	0200	1694.8	6.4	2	350-85	1	P	C4	01 DEC 88	
23 NOV 88	0300	1726.7	6.9	2	372-81	1	P	C4	12 DEC 88	
13 DEC 88	0100	1761.0	-1.0	2	382-81	1	P	C4	06 JAN 89	
20 DEC 88	0200	1740.0	5.9	2	592-81	1	P	C4	18 JAN 89	
27 DEC 88	0200	1694.2	-1.9	2	590-81	1	P	C4	23 JAN 89	

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
03 JAN 86	2040	1660.7	-.6	2	2080-85	7	P	C3	09 JAN 86	
03 JAN 86	2040	1658.9	2.8	2	2879-85	1	P	C3	08 JAN 86	
17 JAN 86	1942	1650.0	5.8	2	2832-85	1	P	C4	03 FEB 86	
24 JAN 86	1941	1656.2	3.5	2	2878-85	1	P	C4	03 FEB 86	
31 JAN 86	1939	1648.4	.8	2	2864-85	1	P	C4	13 FEB 86	
07 FEB 86	1939	1658.6	2.2	2	2864-85	1	P	C4	18 FEB 86	
14 FEB 86	2000	1653.2	-6.2	2	2840-85	1	P	C4	19 FEB 86	
21 FEB 86	1937	1641.4	1.2	2	2880-85	1	P	C4	14 MAR 86	
28 FEB 86	1938	1648.6	-1.6	2	2802-85	1	P	C4	14 MAR 86	
07 MAR 86	1938	1638.2	-2.1	2	2818-85	1	P	C4	14 MAR 86	
04 APR 86	2002	1660.5	-2.6	2	2832-85	1	P	C4	16 APR 86	
11 APR 86	2000	1684.2	.9	2	2836-85	1	P	C4	18 APR 86	
18 APR 86	1940	1666.9	-3.9	2	2802-85	1	P	C4	22 APR 86	
25 APR 86	1940	1690.5	6.7	3	2874-85	1	P	C4	01 MAY 86	
02 MAY 86	1945	1663.6	1.5	2	2860-85	1	P	C4	09 MAY 86	
09 MAY 86	1935	1659.6	-1.2	2	2858-85	1	P	C4	14 MAY 86	
16 MAY 86	1935	1656.8	-1.6	2	2853-85	6	P	C4	28 MAY 86	
16 MAY 86	1935	1660.7	.4	2	2854-85	1	P	C4	28 MAY 86	
23 MAY 86	1928	1650.6	-6.6	2	2836-85	1	P	C4	28 MAY 86	
30 MAY 86	1932	1680.0	.1	2	2843-85	6	P	C4	11 JUN 86	
30 MAY 86	1932	1691.8		1	2844-85	1	P	C4	12 JUN 86	
06 JUN 86	1938	1657.8	-2.9	2	2893-85	6	P	C4	12 JUN 86	
06 JUN 86	1938	1658.5	1.9	2	2894-85	1	P	C4	12 JUN 86	
13 JUN 86	1940	1657.1		1	2811-85	6	P	C4	07 AUG 86	
13 JUN 86	1940	1658.6		1	2812-85	1	P	C4	07 AUG 86	
20 JUN 86	1935	1648.2		1	2851-85	6	P	C4	07 AUG 86	
20 JUN 86	1935	1650.6		1	2852-85	1	P	C4	07 AUG 86	
26 JUN 86	1940	1660.7	4.9	2	2860-85	1	P	C4	08 JUL 86	
03 JUL 86	2039	1690.6	5.6	2	2856-85	1	P	C4	05 AUG 86	
03 JUL 86	2057	1696.4	4.5	2	2844-85	1	P	C4	30 JUL 86	
11 JUL 86	1945	1677.1	4.6	2	2819-85	6	P	C4	22 JUL 86	
11 JUL 86	1945	1679.5	-1.1	2	2820-85	1	P	C4	22 JUL 86	
18 JUL 86	1938	1646.2	-7.4	2	2823-85	6	P	C4	22 JUL 86	
18 JUL 86	1938	1645.9	-6.7	2	2824-85	1	P	C4	22 JUL 86	
25 JUL 86	2005	1646.5		1	2867-85	6	P	C4	07 AUG 86	
25 JUL 86	2005	1648.2		1	2868-85	1	P	C4	07 AUG 86	
01 AUG 86	2209	1656.4		1	2837-85	6	P	C4	08 AUG 86	
01 AUG 86	2209	1656.6		1	2838-85	1	P	C4	08 AUG 86	
07 AUG 86	1928	1638.0	-1.2	2	2845-85	6	P	C4	24 AUG 86	
07 AUG 86	1928	1644.0	-.1	2	2846-85	1	P	C4	24 AUG 86	
15 AUG 86	2006	1643.4	-5.3	2	2826-85	1	P	C4	19 SEP 86	
22 AUG 86	2005	1670.9	-1.3	2	2820-85	1	P	C4	25 SEP 86	
29 AUG 86	2000	1648.9	-1.5	2	2802-85	1	P	C4	11 SEP 86	
05 SEP 86	2005	1660.9	-7.6	2	2814-85	1	P	C4	20 SEP 86	
12 SEP 86	2008	1645.0	11.9	3	2856-85	1	P	C4	18 SEP 86	
19 SEP 86	2007	1637.0	-7.8	2	900-83	1	P	C4	30 SEP 86	
26 SEP 86	2038	1671.3	4.4	2	362-82	1	P	C4	30 SEP 86	
10 OCT 86	1940	1684.9	-3.0	2	1484-82	1	P	C4	20 OCT 86	
17 OCT 86	1943	1687.6	4.6	2	362-85	1	P	C4	20 OCT 86	
24 OCT 86	2017	1673.1	-.2	2	348-85	1	P	C4	12 NOV 86	
31 OCT 86	1930	1655.6	-6.2	2	1630-82	1	P	C4	14 NOV 86	
07 NOV 86	2000	1654.9	4.9	2	876-83	1	P	C4	14 NOV 86	
14 NOV 86	2001	1656.7	1.5	2	710-85	1	P	C4	17 NOV 86	
21 NOV 86	1930	1675.7	8.0	2	20-85	1	P	C4	08 DEC 86	
29 NOV 86	0129	1684.6	-6.2	2	1080-82	1	P	C4	08 DEC 86	
05 DEC 86	1928	1685.1	.3	2	178-82	1	P	C4	29 DEC 86	
12 DEC 86	2001	1678.5	5.8	2	296-83	1	P	C4	30 DEC 86	
19 DEC 86	2040	1684.3	1.8	2	278-85	1	P	C4	29 DEC 86	
26 DEC 86	2241	1677.5	-1.6	2	496-82	1	P	C4	07 JAN 87	
31 DEC 86	2045	1670.1	.5	2	550-85	1	P	C4	08 JAN 87	
09 JAN 87	2002	1664.8	-11.7	3	278-83	1	P	C4	15 JAN 87	
16 JAN 87	1940	1676.2	-8.1	2	162-83	1	P	C4	20 JAN 87	
23 JAN 87	1940	1676.1	-2.5	2	942-83	1	P	C4	03 FEB 87	
30 JAN 87	1957	1662.1	1.8	2	558-85	1	P	C4	03 FEB 87	

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
06 FEB 87	2002	1660.5	8.6	2	48-85	1	P	C4	10 FEB 87	
13 FEB 87	2005	1668.7	2.6	2	908-83	1	P	C4	24 FEB 87	
20 FEB 87	1948	1678.5	2.5	2	401-85	1	P	C4	04 MAR 87	
27 FEB 87	1948	1688.6	3.1	2	1704-82	1	P	C4	04 MAR 87	
06 MAR 87	1950	1668.2	-.4	2	558-85	1	P	C4	13 MAR 87	
13 MAR 87	1958	1661.6	5.9	2	40-85	1	P	C4	24 MAR 87	
20 MAR 87	2009	1661.5	4.7	2	178-82	1	P	C4	25 MAR 87	
27 MAR 87	2021	1688.0	1.6	2	1272-82	1	P	C4	02 APR 87	
03 APR 87	1958	1693.5	2.3	2	58-85	1	P	C4	22 APR 87	
09 APR 87	1942	1659.2	1.0	2	1292-82	1	P	C4	21 APR 87	
17 APR 87	1946	1670.2	-4.8	2	264-83	1	P	C4	21 APR 87	
24 APR 87	1958	1679.1	-7.2	2	816-83	1	P	C4	28 APR 87	
01 MAY 87	2010	1666.7	-10.1	3	774-85	1	P	C4	13 MAY 87	
08 MAY 87	2012	1696.1	.3	2	374-85	1	P	C4	13 MAY 87	
15 MAY 87	1937	1669.6	-5.0	2	692-85	1	P	C4	21 MAY 87	
22 MAY 87	1930	1669.7	10.4	3	736-85	1	P	C4	01 JUN 87	
29 MAY 87	1937	1656.3	-1.1	2	664-83	1	P	C4	09 JUN 87	
05 JUN 87	1935	1673.7	-4.4	2	327-85	1	P	C4	18 JUN 87	
12 JUN 87	1937	1680.8	-5.6	2	49-83	1	P	C4	18 JUN 87	
19 JUN 87	1937	1686.0	-1.5	2	806-83	1	P	C4	23 JUN 87	
26 JUN 87	1938	1646.4	-2.4	2	90-85	1	P	C4	08 JUL 87	
02 JUL 87	1940	1658.2	1.0	2	405-83	1	P	C4	08 JUL 87	
10 JUL 87	1957	1658.7	3.6	2	745-85	1	P	C4	22 JUL 87	
10 JUL 87	1957	1654.1	5.8	2	746-85	1	P	C4	22 JUL 87	
17 JUL 87	1950	1658.3	-2.6	2	664-83	1	P	C4	22 JUL 87	
23 JUL 87	2005	1642.0	-7.7	2	2048-86	1	P	C4	30 JUL 87	
29 JUL 87	1908	1647.9	3.2	2	2032-86	1	P	C4	11 AUG 87	
07 AUG 87	2041	1704.4	-5.0	2	654-85	1	P	C4	04 SEP 87	
14 AUG 87	1941	1652.1	-2.7	2	240-86	1	P	C4	09 SEP 87	
21 AUG 87	1946	1651.6	-.8	2	1186-82	1	P	C4	04 SEP 87	
28 AUG 87	2000	1657.7	3.6	2	676-85	1	P	C4	03 SEP 87	
04 SEP 87	1955	1642.6	6.4	2	828-85	1	P	C4	15 SEP 87	
11 SEP 87	1930	1660.2	-2.2	2	2026-86	2	S	C4	23 SEP 87	
11 SEP 87	1955	1659.2	.8	2	156-85	1	P	C4	23 SEP 87	
18 SEP 87	1950	1659.5	-5.8	2	618-85	1	P	C4	24 SEP 87	
25 SEP 87	2005	1662.4	-5.9	2	88-87	1	P	C4	30 SEP 87	
02 OCT 87	1945	1697.4	-.9	2	90-87	1	P	C4	08 OCT 87	
08 OCT 87	2004	1663.8	6.1	2	630-85	1	P	C4	26 OCT 87	
16 OCT 87	1945	1669.2	-2.0	2	174-85	1	P	C4	27 OCT 87	
23 OCT 87	1952	1691.5	3.2	2	236-85	1	P	C4	28 OCT 87	
30 OCT 87	1956	1686.2	3.6	2	264-87	1	P	C4	09 NOV 87	
06 NOV 87	2003	1709.8	2.8	2	282-87	1	P	C4	10 NOV 87	
13 NOV 87	1945	1673.5	3.0	2	270-85	1	P	C4	17 NOV 87	
20 NOV 87	1935	1702.8	4.2	2	198-85	1	P	C4	24 NOV 87	
25 NOV 87	2126	1716.7	4.6	2	264-87	1	P	C4	03 DEC 87	
01 DEC 87	2020	1702.2	5.7	2	452-85	1	P	C4	04 DEC 87	
11 DEC 87	2030	1686.1	3.7	2	250-87	1	P	C4	22 DEC 87	
18 DEC 87	2300	1667.7	-4.2	2	410-85	1	P	C4	02 JAN 88	
24 DEC 87	1807	1682.7	5.4	2	356-85	1	P	C4	02 JAN 88	
31 DEC 87	2036	1680.8		1	393-86	1	P	C4	05 JAN 88	
31 DEC 87	2036	1685.4		1	394-86	1	P	C4	05 JAN 88	
08 JAN 88	2012	1679.3	.9	2	122-87	1	P	C4	13 JAN 88	
15 JAN 88	2105	1672.0	-1.6	2	360-85	1	P	C4	26 JAN 88	
22 JAN 88	2043	1668.0	-1.2	2	98-87	1	P	C4	03 FEB 88	
29 JAN 88	1953	1688.8		1	29-85	1	P	C4	04 FEB 88	
29 JAN 88	1953	1688.7		1	30-85	1	P	C4	04 FEB 88	
12 FEB 88	1948	1679.5	-2.3	2	326-86	1	P	C4	19 FEB 88	
19 FEB 88	2010	1674.7	-1.3	2	274-85	1	P	C4	01 MAR 88	
26 FEB 88	2000	1688.2	-2.3	2	788-85	1	P	C4	02 MAR 88	
04 MAR 88	2010	1687.7	-2.1	2	92-85	1	P	C4	10 MAR 88	
11 MAR 88	1940	1680.7	6.8	2	56-85	1	P	C4	23 MAR 88	
18 MAR 88	2030	1685.0	-2.3	2	380-85	1	P	C4	24 MAR 88	
25 MAR 88	2105	1665.3	.9	2	358-86	1	P	C4	12 APR 88	
01 APR 88	2000	1700.5	5.2	2	350-86	1	P	C4	11 APR 88	
08 APR 88	1950	1687.7	-6.4	2	180-85	1	P	C4	13 APR 88	

Mauna Loa, Hawaii (MLO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
15 APR 88	2048	1702.6	12.0	3	316-85	1	P	C4	22 APR 88	
29 APR 88	1951	1682.4	1.5	2	346-86	1	P	C4	13 MAY 88	
06 MAY 88	1950	1666.2	-3.1	2	244-85	1	P	C4	17 MAY 88	
13 MAY 88	1942	1680.8	-6.4	2	696-85	1	P	C4	23 MAY 88	
20 MAY 88	2005	1684.1	-2.8	2	403-86	1	P	C4	31 MAY 88	
27 MAY 88	2001	1708.6	.2	2	286-86	1	P	C4	01 JUN 88	
03 JUN 88	1948	1666.9	5.5	2	262-86	1	P	C4	13 JUN 88	
10 JUN 88	1955	1697.5	-1.6	2	240-85	1	P	C4	15 JUN 88	
17 JUN 88	2000	1663.7	-7.7	2	322-86	1	P	C4	22 JUN 88	
24 JUN 88	1955	1670.4	4.6	2	376-86	1	P	C4	01 JUL 88	
01 JUL 88	2018	1672.3	-2.9	2	552-87	1	P	C4	13 JUL 88	
08 JUL 88	1955	1669.9	-2.8	2	74-87	1	P	C4	18 JUL 88	
15 JUL 88	2041	1668.1	6.2	2	224-86	1	P	C4	09 AUG 88	
22 JUL 88	2050	1664.8	3.5	2	672-85	1	P	C4	10 AUG 88	
29 JUL 88	1950	1665.3	13.6	3	46-85	1	P	C4	10 AUG 88	
05 AUG 88	2004	1659.1	-4.3	2	264-86	1	P	C4	16 AUG 88	
12 AUG 88	2044	1664.0	2.0	2	594-87	1	P	C4	17 AUG 88	
19 AUG 88	2043	1674.4	2.1	2	298-86	1	P	C4	30 AUG 88	
26 AUG 88	2000	1696.9	-8.2	2	286-87	1	P	C4	31 AUG 88	
02 SEP 88	2005	1659.2	-6.2	2	414-86	1	P	C4	15 SEP 88	
09 SEP 88	1943	1695.4	-4.2	2	23-85	1	P	C4	22 SEP 88	
09 SEP 88	1943	1693.1	-12.4	2	24-85	1	P	C4	19 SEP 88	
16 SEP 88	2003	1687.4	-.3	2	256-87	1	P	C4	22 SEP 88	
23 SEP 88	1953	1679.0	-2.8	2	34-81	1	P	C4	29 SEP 88	
30 SEP 88	2003	1669.8	8.7	2	30-81	1	P	C4	18 OCT 88	
07 OCT 88	2035	1681.5	5.0	2	102-81	1	P	C4	19 OCT 88	
14 OCT 88	1951	1692.5	1.0	2	194-81	1	P	C4	20 OCT 88	
21 OCT 88	2005	1663.7	.3	2	164-81	1	P	C4	02 NOV 88	
28 OCT 88	1938	1710.3	-3.7	2	348-81	1	P	C4	02 NOV 88	
09 NOV 88	1938	1699.7	.3	2	512-81	1	P	C4	17 NOV 88	
18 NOV 88	1953	1703.0	-.5	2	517-81	1	P	C4	02 DEC 88	
18 NOV 88	1953	1703.4		1	518-81	1	P	C4	01 DEC 88	
02 DEC 88	2025	1705.2	4.0	2	630-81	1	P	C4	14 DEC 88	
09 DEC 88	2014	1681.4	-21.7	2	656-81	1	P	C4	21 DEC 88	
16 DEC 88	2000	1712.4	-4.1	2	650-81	1	P	C4	04 JAN 89	
23 DEC 88	2050	1694.7	-10.0	2	852-81	1	P	C4	09 JAN 89	
30 DEC 88	2040	1724.9		1	533-81	1	P	C4	18 JAN 89	
30 DEC 88	2040	1725.2		1	534-81	1	P	C4	10 JAN 89	

Niwot Ridge, Colorado (NWR)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
07 JAN 86	1800	1693.4	1.0	2	2042-85	6	N	C3	10 JAN 86	
14 JAN 86	1700	1667.5	4.1	2	2024-85	6	N	C4	13 FEB 86	
28 JAN 86	1800	1672.1	.2	2	2068-85	6	N	C4	13 FEB 86	
04 FEB 86	1800	1718.6	-1.2	2	2046-85	6	N	C4	18 FEB 86	
11 FEB 86	1830	1735.9	4.8	2	2086-85	6	N	C4	19 FEB 86	
18 FEB 86	1700	1687.1	-1.7	2	2042-85	6	N	C4	24 MAR 86	
04 MAR 86	1830	1689.1	2.4	2	2030-85	6	N	C4	14 MAR 86	
11 MAR 86	1820	1701.0	-4.8	2	2028-85	6	N	C4	13 MAR 86	
18 MAR 86	1800	1743.4	2.4	2	2049-85	6	N	C4	24 MAR 86	
25 MAR 86	1700	1687.5	6.8	2	2024-85	6	N	C4	23 APR 86	
01 APR 86	1700	1670.8	3.0	2	2058-85	6	N	C4	16 APR 86	
15 APR 86	1800	1702.7	2.7	2	2096-85	6	N	C4	22 APR 86	
22 APR 86	1800	1674.8	-.5	2	2094-85	6	N	C4	01 MAY 86	
29 APR 86	1530	1685.5	.2	2	2124-85	6	N	C4	09 MAY 86	
07 MAY 86	1700	1708.0	1.5	2	2030-85	6	N	C4	09 MAY 86	
13 MAY 86	1700	1715.3	1.0	2	2016-85	6	N	C4	28 MAY 86	
20 MAY 86	1730	1688.5	-1.2	2	2050-85	6	N	C4	28 MAY 86	
28 MAY 86	1730	1707.1	.1	2	2068-85	6	N	C4	11 JUN 86	
03 JUN 86	1900	1712.0	-.3	2	2118-85	6	N	C4	10 JUN 86	
10 JUN 86	1740	1703.5	4.6	2	2034-85	6	N	C4	07 AUG 86	
17 JUN 86	1644	1670.6	6.5	2	2026-85	6	N	C4	08 AUG 86	
25 JUN 86	1622	1689.6	-7.6	2	2040-85	6	N	C4	07 JUL 86	
08 JUL 86	1535	1644.6	-3.4	2	2050-85	6	N	C4	05 AUG 86	
16 JUL 86	1520	1665.9	-5.3	2	2016-85	6	N	C4	29 JUL 86	
22 JUL 86	1500	1664.2	2.5	2	2036-85	6	N	C4	29 JUL 86	
29 JUL 86	1537	1653.2	-3.3	2	2086-85	6	N	C4	10 AUG 86	
05 AUG 86	1511	1677.1	.6	2	2082-85	6	N	C4	08 AUG 86	
12 AUG 86	1515	1678.6	5.8	2	2040-85	6	N	C4	18 SEP 86	
19 AUG 86	1450	1663.2	-4.6	2	2012-85	6	N	C4	15 SEP 86	
26 AUG 86	2050	1686.7		1	1406-10	6	P	C4	15 OCT 86	
26 AUG 86	2050	1688.5		1	1406-20	6	P	C4	15 OCT 86	
29 AUG 86	2030	1671.4	-8.3	2	2090-85	6	N	C4	23 SEP 86	
30 AUG 86	0026	1684.9	2.1	2	5679-71	6	P	C4	15 OCT 86	
30 AUG 86	0037	1694.3	1.6	2	5679-72	6	P	C4	15 OCT 86	
02 SEP 86	1530	1681.8	-.3	2	2016-85	6	N	C4	23 SEP 86	
09 SEP 86	1530	1657.7	-11.2	2	2118-85	6	N	C4	11 SEP 86	
16 SEP 86	1500	1656.4	-2.9	2	2080-85	6	N	C4	30 SEP 86	
23 SEP 86	1530	1658.6	6.1	2	2030-85	6	N	C4	08 OCT 86	
30 SEP 86	1630	1691.9		1	2098-85	6	N	C4	08 OCT 86	
07 OCT 86	1600	1703.6	1.8	2	2070-85	6	N	C4	08 OCT 86	
14 OCT 86	1630	1706.5	-3.7	2	2126-85	6	N	C4	20 OCT 86	
21 OCT 86	1755	1703.8	2.0	2	2046-85	6	N	C4	14 NOV 86	
28 OCT 86	1730	1703.8	4.5	2	2118-85	6	N	C4	12 NOV 86	
04 NOV 86	1730	1699.1	2.8	2	2064-85	6	N	C4	17 NOV 86	
11 NOV 86	1730	1719.0	3.3	2	2092-85	6	N	C4	17 NOV 86	
18 NOV 86	1745	1685.6	8.5	2	2010-85	6	N	C4	29 DEC 86	
02 DEC 86	1730	1696.2	-2.7	2	2082-85	6	N	C4	10 DEC 86	
10 DEC 86	1800	1702.6	.3	2	2004-85	6	N	C4	29 DEC 86	
16 DEC 86	1700	1703.1	2.7	2	2002-86	2	N	C4	22 DEC 86	
30 DEC 86	1700	1704.3	2.8	2	2030-86	2	N	C4	07 JAN 87	
06 JAN 87	1700	1719.8	2.1	2	2018-86	2	N	C4	09 JAN 87	
13 JAN 87	1700	1680.1	2.5	2	2047-86	2	N	C4	15 JAN 87	
13 JAN 87	1700	1680.4		1	2048-86	2	N	C4	15 JAN 87	
20 JAN 87	1800	1724.1	-1.1	2	2058-86	2	N	C4	22 JAN 87	
27 JAN 87	1730	1673.5	-.5	2	2057-86	2	N	C4	11 FEB 87	
03 FEB 87	1730	1691.0	-.3	2	2028-86	2	N	C4	10 FEB 87	
10 FEB 87	9999	1696.8	3.0	2	2032-86	2	N	C4	18 FEB 87	
17 FEB 87	1730	1749.2	-1.6	2	2030-86	2	N	C4	04 MAR 87	
24 FEB 87	1730	1722.6	-2.4	2	2060-86	2	N	C4	04 MAR 87	
03 MAR 87	1700	1747.6		1	664-83	1	N	C4	21 APR 87	
10 MAR 87	1600	1724.3	-1.0	2	2002-86	2	N	C4	13 MAR 87	
31 MAR 87	1315	1703.3	-5.8	2	2008-86	2	N	C4	08 APR 87	
08 APR 87	2030	1718.3	7.9	2	2056-86	2	N	C4	22 APR 87	
14 APR 87	1700	1707.4	2.7	2	2026-86	2	N	C4	21 APR 87	

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
21 APR 87	1700	1706.5	-1.8	2	2048-86	2	N	C4	28 APR 87	
28 APR 87	1600	1691.4	-.4	2	2032-86	2	N	C4	05 MAY 87	
06 MAY 87	1800	1701.4	.6	2	2050-86	2	N	C4	13 MAY 87	
12 MAY 87	1300	1706.4	-7.5	2	2034-86	2	N	C4	15 MAY 87	
19 MAY 87	1510	1664.9	-4.0	2	2040-86	2	N	C4	21 MAY 87	
27 MAY 87	1530	1722.1	.9	2	2026-86	2	N	C4	09 JUN 87	
02 JUN 87	1525	1717.4	-2.3	2	2042-86	2	N	C4	09 JUN 87	
11 JUN 87	1430	1681.4	.7	2	2031-86	2	N	C4	23 JUN 87	
16 JUN 87	1415	1668.3	2.0	2	2006-86	2	N	C4	23 JUN 87	
24 JUN 87	1500	1735.8	7.3	2	868-83	1	N	C4	30 JUN 87	
30 JUN 87	1435	1694.9	-3.9	2	2050-86	2	N	C4	08 JUL 87	
10 JUL 87	1530	1675.9	2.0	2	2054-86	2	N	C4	22 JUL 87	
14 JUL 87	1530	1725.1	-2.5	2	2062-86	2	N	C4	22 JUL 87	
22 JUL 87	1530	1664.6	3.3	2	2060-86	2	N	C4	30 JUL 87	
30 JUL 87	1500	1680.4	-.9	2	2046-86	2	N	C4	12 AUG 87	
04 AUG 87	2000	1695.2		1	2006-86	2	N	C4	10 AUG 87	
08 AUG 87	1630	1703.9	-2.4	2	2012-86	2	N	C4	15 SEP 87	
11 AUG 87	1630	1697.4	-4.0	2	2024-86	2	N	C4	04 SEP 87	
18 AUG 87	1715	1709.5	-8.8	2	2037-86	2	N	C4	04 SEP 87	
25 AUG 87	1630	1683.0	5.0	2	2042-86	2	N	C4	03 SEP 87	
02 SEP 87	1600	1694.7	-.9	2	2060-86	2	N	C4	15 SEP 87	
15 SEP 87	1530	1689.9	-1.9	2	2008-86	2	N	C4	24 SEP 87	
23 SEP 87	1600	1693.4	-3.3	2	2018-86	2	N	C4	30 SEP 87	
01 OCT 87	1545	1719.4	-8.1	2	2044-86	2	N	C4	06 OCT 87	
06 OCT 87	1620	1708.1	-7.6	2	2036-86	2	N	C4	26 OCT 87	
16 OCT 87	1700	1713.5	-3.7	2	2034-86	2	N	C4	27 OCT 87	
20 OCT 87	1620	1721.6	-2.4	2	2004-86	2	N	C4	27 OCT 87	
27 OCT 87	1700	1710.5	2.8	2	2042-86	2	N	C4	09 NOV 87	
03 NOV 87	1620	1700.8	-2.2	2	2006-86	2	N	C4	09 NOV 87	
10 NOV 87	1740	1704.6	1.6	2	2038-86	2	N	C4	17 NOV 87	
17 NOV 87	1600	1721.5	.2	2	2018-86	2	N	C4	18 NOV 87	
24 NOV 87	1740	1733.9	4.2	2	2024-86	2	N	C4	03 DEC 87	
01 DEC 87	1800	1725.1	6.5	2	2036-86	2	N	C4	04 DEC 87	
08 DEC 87	1812	1753.3	-4.3	2	2004-86	2	N	C4	31 DEC 87	
15 DEC 87	1900	1738.3	10.3	3	2062-86	2	N	C4	31 DEC 87	
22 DEC 87	1630	1707.6	1.7	2	2012-86	2	N	C4	05 JAN 88	
29 DEC 87	1750	1722.4	-.7	2	2013-86	2	N	C4	07 JAN 88	
29 DEC 87	1750	1716.1	4.5	2	2014-86	2	N	C4	07 JAN 88	
05 JAN 88	1750	1714.8	-3.9	2	2018-86	2	N	C4	13 JAN 88	
12 JAN 88	1630	1753.7	4.5	2	2036-86	2	N	C4	19 JAN 88	
20 JAN 88	1650	1744.9	-9.3	2	2056-86	2	N	C4	26 JAN 88	
26 JAN 88	1803	1720.8	2.3	2	2024-86	2	N	C4	03 FEB 88	
03 FEB 88	1920	1718.6		1	2041-86	2	N	C4	04 FEB 88	
03 FEB 88	1920	1717.5		1	2042-86	2	N	C4	04 FEB 88	
09 FEB 88	1720	1731.4		1	2014-86	2	N	C4	18 FEB 88	
09 FEB 88	1720	1727.8	-2.3	2	2014-86	2	N	C4	19 FEB 88	
19 FEB 88	2030	1734.1	2.8	2	2001-86	2	N	C4	24 FEB 88	
23 FEB 88	1740	1722.3	-.4	2	2018-86	2	N	C4	01 MAR 88	
01 MAR 88	1650	1712.1	-7.1	2	2062-86	2	N	C4	10 MAR 88	
08 MAR 88	1700	1755.5	3.4	2	2004-86	2	N	C4	10 MAR 88	
17 MAR 88	1745	1786.5	3.0	2	2056-86	2	N	C4	23 MAR 88	
22 MAR 88	1700	1716.6	1.5	2	2036-86	2	N	C4	24 MAR 88	
29 MAR 88	1715	1680.7	-9.2	2	2042-86	2	N	C4	12 APR 88	
05 APR 88	1700	1726.1	4.3	2	2025-86	2	N	C4	11 APR 88	
12 APR 88	1700	1714.4	.3	2	2026-86	2	N	C4	22 APR 88	
19 APR 88	1630	1714.7	8.3	2	2012-85	6	N	C4	22 APR 88	
26 APR 88	1650	1742.1	3.3	2	2062-86	2	N	C4	16 MAY 88	
03 MAY 88	1725	1751.4	-3.3	2	2001-86	2	N	C4	13 MAY 88	
10 MAY 88	1711	1737.1	-6.3	2	2048-86	2	N	C4	17 MAY 88	
17 MAY 88	1600	1703.9	-6.3	2	2056-86	2	N	C4	23 MAY 88	
24 MAY 88	1630	1735.7	.2	2	2008-86	2	N	C4	31 MAY 88	
02 JUN 88	1650	1694.0	5.8	2	2026-86	2	N	C4	13 JUN 88	
07 JUN 88	1450	1680.5	.6	2	2012-86	2	N	C4	13 JUN 88	
14 JUN 88	1630	1719.7	10.7	3	2044-86	2	N	C4	15 JUN 88	
28 JUN 88	1650	1703.9	-3.1	2	2046-86	2	N	C4	01 JUL 88	

Niwot Ridge, Colorado (NWR)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
05 JUL 88	1640	1687.3	4.1	2	2037-86	2	N	C4	19 JUL 88	
12 JUL 88	1700	1703.7	2.8	2	2006-86	2	N	C4	18 JUL 88	
21 JUL 88	1450	1736.6	-2.3	2	2048-86	2	N	C4	11 AUG 88	
26 JUL 88	1530	1705.8	-1.2	2	2026-86	2	N	C4	16 AUG 88	
02 AUG 88	1630	1684.7	-5.3	2	2008-86	2	N	C4	10 AUG 88	
09 AUG 88	1610	1681.7	5.8	2	2036-86	2	N	C4	18 AUG 88	
16 AUG 88	1540	1683.7	-8.9	2	2020-86	2	N	C4	30 AUG 88	
06 SEP 88	1600	1720.3	-.3	2	2004-86	2	N	C4	19 SEP 88	
15 SEP 88	1615	1751.6	-3.3	2	2008-86	2	N	C4	19 SEP 88	
20 SEP 88	1714	1714.0	7.8	2	2046-86	2	N	C4	28 SEP 88	
27 SEP 88	1730	1700.5	1.1	2	2016-86	2	N	C4	04 OCT 88	
04 OCT 88	1700	1715.6	-3.6	2	2050-86	2	N	C4	14 OCT 88	
11 OCT 88	1900	1703.5	6.0	2	2054-86	2	N	C4	20 OCT 88	
25 OCT 88	1812	1709.0	-.2	2	2014-60	2	N	C4	27 OCT 88	
01 NOV 88	1741	1718.6	1.9	2	2012-60	2	N	C4	09 NOV 88	
08 NOV 88	1820	1717.8	-2.2	2	2016-60	2	N	C4	16 NOV 88	
15 NOV 88	1843	1751.3	6.6	2	2008-60	2	N	C4	22 NOV 88	
22 NOV 88	1827	1725.1	6.0	2	2020-60	2	N	C4	01 DEC 88	
29 NOV 88	1926	1759.0	-5.6	2	2026-60	2	N	C4	02 DEC 88	
06 DEC 88	1655	1718.4	7.7	2	2018-60	2	N	C4	12 DEC 88	
13 DEC 88	1840	1712.3	2.6	2	2028-60	2	N	C4	21 DEC 88	
13 DEC 88	1840	1708.1	-3.9	2	2030-62	3	N	C4	21 DEC 88	
20 DEC 88	1906	1739.7	1.9	2	2034-60	2	N	C4	05 JAN 89	
27 DEC 88	1850	1769.4	-.1	2	2034-62	3	N	C4	05 JAN 89	
27 DEC 88	1850	1775.5	-3.2	2	2040-60	2	N	C4	05 JAN 89	

Olympic Pen., Washington (OPW)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
28 JAN 86	2300	1712.7	.2	2	3014-85	5	T	C4	13 FEB 86	
25 MAR 86	2330	1720.5	1.8	2	3074-84	5	T	C4	14 APR 86	
26 MAR 86	0030	1722.2	1.5	2	3077-84	5	T	C4	14 APR 86	
03 APR 86	1800	1724.3	-2.4	2	3056-84	5	T	C4	14 APR 86	
09 APR 86	1810	1729.6	1.9	2	3056-83	5	T	C4	20 APR 86	
22 APR 86	1500	1747.5	-.5	2	3010-83	5	T	C4	01 MAY 86	
22 APR 86	1545	1739.6	-2.5	2	3032-85	5	T	C4	01 MAY 86	
29 APR 86	2110	1745.6	5.4	2	3098-83	5	T	C4	09 MAY 86	
11 MAY 86	1540	1738.6	2.0	2	3056-84	5	T	C4	28 MAY 86	
15 MAY 86	1830	1731.2	.1	2	3006-85	5	T	C4	28 MAY 86	
02 JUN 86	2200	1725.5	-2.4	2	3080-83	5	T	C4	22 JUL 86	
13 JUN 86	0230	1714.3	-3.8	2	3020-84	5	T	C4	22 JUL 86	
16 JUL 86	1807	1700.2	-14.8	3	3008-83	5	T	C4	05 AUG 86	
16 JUL 86	1902	1696.3	2.0	2	3084-84	5	T	C4	05 AUG 86	
29 AUG 86	1746	1688.7	-.2	2	3048-83	5	T	C4	13 NOV 86	
29 AUG 86	1841	1692.2	.5	2	3014-84	5	T	C4	13 NOV 86	
26 SEP 86	2133	1737.8	-10.4	3	3010-85	5	T	C4	29 DEC 86	
26 SEP 86	2220	1741.5	-2.5	2	3040-84	5	T	C4	29 DEC 86	
30 OCT 86	2124	1730.6	-2.8	2	3098-83	5	T	C4	13 NOV 86	
30 OCT 86	2220	1737.6	2.5	2	3072-83	5	T	C4	13 NOV 86	
29 JAN 87	2000	1729.3	-3.6	2	3098-83	5	T	C4	20 APR 87	
12 FEB 87	2005	1717.5	-3.2	2	3030-84	5	T	C4	20 APR 87	
24 FEB 87	2345	1750.4	4.2	2	3040-85	5	T	C4	21 APR 87	
18 MAR 87	2350	1731.2	4.0	2	3034-83	5	T	C4	20 APR 87	
10 APR 87	0130	1744.9	-4.4	3	3070-84	5	T	C4	20 APR 87	
25 APR 87	0000	1746.3	-9.9	2	3042-84	5	T	C4	08 JUL 87	
13 MAY 87	0400	1735.6	8.2	2	3072-83	5	T	C4	08 JUL 87	
22 MAY 87	0013	1739.9	2.0	2	3002-83	5	T	C4	08 JUL 87	
09 JUN 87	2210	1724.8	-.1	2	3028-83	5	T	C4	08 JUL 87	
03 JUL 87	2330	1710.4	2.8	2	3098-84	5	T	C4	05 JAN 88	
22 JUL 87	2054	1699.5	6.5	2	3088-84	5	T	C4	29 FEB 88	
23 JUL 87	0030	1711.9	-2.5	2	3010-84	5	T	C4	29 FEB 88	
14 AUG 87	2250	1687.9	-3.2	2	3106-83	5	T	C4	29 FEB 88	
14 AUG 87	2344	1684.2	-6.9	2	3038-85	5	T	C4	29 FEB 88	
01 SEP 87	0200	1694.9	3.8	2	3010-85	5	T	C4	05 JAN 88	
16 SEP 87	0140	1749.8	1.6	2	3062-84	5	T	C4	22 DEC 87	
16 SEP 87	0301	1750.1	-11.6	3	3006-84	5	T	C4	22 DEC 87	
11 JAN 88	2015	1753.8	-6.4	2	3026-84	5	T	C4	29 FEB 88	
11 JAN 88	2250	1760.2	-4.2	2	3006-85	5	T	C4	29 FEB 88	
15 FEB 88	2050	1749.2	1.4	2	3034-85	5	T	C4	29 FEB 88	
15 FEB 88	2156	1751.7	-4.5	2	3050-84	5	T	C4	29 FEB 88	
04 MAR 88	2232	1760.1	4.8	2	3076-84	5	T	C4	27 APR 88	
18 MAR 88	0100	1787.5	-5.3	2	3025-83	5	T	C4	27 APR 88	
29 MAR 88	2050	1752.4	1.5	2	3074-84	5	T	C4	27 APR 88	
29 MAR 88	2216	1751.8	-2.9	2	3086-84	5	T	C4	27 APR 88	
15 JUL 88	2100	1709.4	-1.8	2	3038-85	5	T	C4	09 AUG 88	
16 JUL 88	0100	1716.4	-3.6	2	3006-85	5	T	C4	09 AUG 88	
04 AUG 88	0200	1711.9	5.8	2	3050-84	5	T	C4	09 AUG 88	
04 AUG 88	0224	1707.9	3.0	2	3106-83	5	T	C4	09 AUG 88	
18 AUG 88	2125	1705.9	5.2	2	3056-84	5	T	C4	31 AUG 88	
18 AUG 88	2200	1703.5	5.0	2	3136-86	5	T	C4	31 AUG 88	
14 SEP 88	1937	1735.9	-13.3	3	3038-83	5	T	C4	28 JUN 89	
14 SEP 88	2037	1740.1	4.7	2	3010-83	5	T	C4	28 JUN 89	
06 OCT 88	1601	1755.7	-2.2	2	3064-84	5	T	C4	12 OCT 88	
06 OCT 88	1643	1757.0	2.8	2	3008-84	5	T	C4	12 OCT 88	
18 OCT 88	2100	1767.6	3.6	2	3048-83	5	T	C4	24 OCT 88	
08 NOV 88	1600	1747.5	8.4	2	3034-60	5	T	C4	10 NOV 88	
08 NOV 88	1630	1746.8	-2.7	2	3044-60	5	T	C4	10 NOV 88	
21 NOV 88	2214	1755.8	7.3	2	3018-60	5	T	C4	01 DEC 88	
21 NOV 88	2240	1770.9	-4.1	2	3022-60	5	T	C4	01 DEC 88	
05 DEC 88	2044	1754.0	-2.1	2	3048-60	5	T	C4	08 DEC 88	
20 DEC 88	2050	1756.9	-5.5	2	3062-60	5	T	C4	03 JAN 89	
20 DEC 88	2206	1750.0	-5.1	2	3064-60	5	T	C4	03 JAN 89	

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
12 JAN 86	2218	1586.3	-1.1	2	331-85	1	P	C4	10 JUN 86	
17 JAN 86	1828	1588.6		1	338-85	1	P	C4	10 JUN 86	
23 JAN 86	1215	1584.9	-1.6	2	342-85	1	P	C4	10 JUN 86	
30 JAN 86	1625	1587.5	-3.0	2	346-85	1	P	C4	10 JUN 86	
14 FEB 86	1302	1578.6	-.9	2	312-85	1	P	C4	10 JUN 86	
20 FEB 86	1300	1577.0	2.0	2	318-85	1	P	C4	10 JUN 86	
27 FEB 86	1425	1576.7	-.8	2	322-85	1	P	C4	10 JUN 86	
14 MAR 86	1250	1576.2		1	625-85	1	P	C4	10 JUN 86	
14 MAR 86	1250	1574.8		1	625-86	1	P	C4	10 JUN 86	
28 MAR 86	1325	1581.5	-.1	2	592-85	1	P	C4	10 JUN 86	
11 APR 86	1910	1583.4	.4	3	604-85	1	P	C4	16 APR 87	
19 APR 86	1210	1586.1	6.1	2	606-85	1	P	C4	16 APR 87	
08 MAY 86	1855	1586.4	4.8	2	612-85	1	P	C4	20 APR 87	
17 MAY 86	1335	1589.2	5.2	2	614-85	1	P	C4	20 APR 87	
26 JUN 86	1842	1603.3	-1.0	2	622-85	1	P	C4	15 APR 87	
17 SEP 86	1330	1615.5	1.0	2	657-85	1	P	C4	20 APR 87	
31 OCT 86	2110	1615.6	1.9	2	678-85	1	P	C4	20 APR 87	
21 NOV 86	1720	1611.7	-3.9	2	646-85	1	P	C4	21 APR 88	
15 DEC 86	1716	1609.5	-5.8	2	682-85	1	P	C4	21 APR 88	
20 JAN 87	1637	1598.6	.1	3	228-86	1	P	C4	17 JUL 87	
11 FEB 87	1352	1589.8	6.2	2	276-86	1	P	C4	17 JUL 87	
18 FEB 87	1229	1588.4	3.0	2	290-86	1	P	C4	17 JUL 87	
23 FEB 87	1203	1587.5	-3.1	2	238-86	1	P	C4	17 JUL 87	
26 FEB 87	1556	1589.8	1.0	2	292-86	1	P	C4	17 JUL 87	
07 MAR 87	1429	1589.8	5.6	2	240-86	1	P	C4	17 JUL 87	
12 MAR 87	1156	1591.8	-.6	2	242-86	1	P	C4	17 JUL 87	
18 MAR 87	1728	1593.9	-.6	2	268-86	1	P	C4	17 JUL 87	
21 MAR 87	1553	1597.9	-.9	2	295-86	1	P	C4	17 JUL 87	
10 APR 87	1710	1594.8	3.6	2	266-86	1	P	C4	17 JUL 87	
17 APR 87	1245	1592.7	4.4	2	222-86	1	P	C4	17 JUL 87	
22 APR 87	1244	1596.6	-3.4	2	278-86	1	P	C4	17 JUL 87	
27 APR 87	1305	1595.5	-9.4	2	231-86	1	P	C4	17 JUL 87	
09 MAY 87	1241	1601.9	-4.8	2	220-86	1	P	C4	21 APR 88	
23 MAY 87	1745	1605.7	-4.9	2	219-86	1	P	C4	21 APR 88	
05 JUN 87	1315	1607.7	-1.3	2	280-86	1	P	C4	20 APR 88	
26 JUN 87	1330	1617.0	-8.5	2	236-86	1	P	C4	20 APR 88	
30 JUN 87	1320	1615.3	-3.0	2	638-85	1	P	C4	18 APR 88	
02 JUL 87	1730	1611.9	-.1	2	636-85	1	P	C4	18 APR 88	
07 JUL 87	1400	1614.1	-7.8	2	596-85	1	P	C4	18 APR 88	
09 JUL 87	1745	1617.8	-5.7	2	633-85	1	P	C4	18 APR 88	
15 JUL 87	1830	1618.5	-4.7	2	598-85	1	P	C4	20 APR 88	
20 JUL 87	2030	1619.3	2.8	2	594-85	1	P	C4	20 APR 88	
26 AUG 87	1800	1619.5	2.3	2	258-86	1	P	C4	19 APR 88	
15 SEP 87	0010	1624.0	-.6	2	666-85	1	P	C4	19 APR 88	
15 SEP 87	2000	1624.3	-4.2	2	664-85	1	P	C4	19 APR 88	
17 SEP 87	1745	1629.1	1.7	2	670-85	1	P	C4	20 APR 88	
23 SEP 87	1800	1624.6	.6	2	674-85	1	P	C4	20 APR 88	
05 OCT 87	1740	1627.1	-3.6	2	672-85	1	P	C4	21 APR 88	
25 OCT 87	0010	1625.5	3.6	2	306-86	1	P	C4	20 APR 88	
27 OCT 87	1110	1624.9	4.1	2	308-86	1	P	C4	20 APR 88	
26 DEC 87	1430	1615.3	1.7	2	342-87	1	P	C4	28 JUN 88	
02 JAN 88	1603	1606.8	-8.1	2	340-87	1	P	C4	28 JUN 88	
09 JAN 88	1530	1612.7	-1.0	2	334-87	1	P	C4	28 JUN 88	
31 JAN 88	1540	1605.0	5.3	2	314-87	1	P	C4	28 JUN 88	
28 FEB 88	1530	1606.0	-3.9	2	308-87	1	P	C4	28 JUN 88	
01 MAR 88	1330	1601.8	-7.6	2	408-87	1	P	C4	20 MAR 89	
06 MAR 88	1730	1602.5	-2.5	2	302-87	1	P	C4	28 JUN 88	
13 MAR 88	1530	1596.2	-5.8	2	304-87	1	P	C4	28 JUN 88	
08 MAY 88	1530	1615.4	5.8	2	406-87	1	P	C4	20 MAR 89	
15 MAY 88	1400	1611.1	-7.6	2	403-87	1	P	C4	20 MAR 89	
05 JUN 88	1730	1624.4	-7.2	2	398-87	1	P	C4	20 MAR 89	
19 JUN 88	1500	1629.6	6.0	2	348-87	1	P	C4	16 MAR 89	
26 JUN 88	1800	1625.6	-3.1	2	317-87	1	P	C4	17 MAR 89	
10 JUL 88	1400	1627.0	-1.5	2	346-87	1	P	C4	17 MAR 89	

Palmer Station, Antarctica (PSA)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
17 JUL 88	1800	1621.5		1	338-87	1	P	C4	17 MAR 89	
24 JUL 88	1730	1633.5	-8.9	2	344-87	1	P	C4	17 MAR 89	
31 JUL 88	1830	1632.6	9.3	2	364-87	1	P	C4	20 MAR 89	
18 SEP 88	1800	1643.1	1.9	2	332-87	1	P	C4	17 MAR 89	
27 NOV 88	1736	1634.5	-11.2	3	350-87	1	P	C4	22 MAR 89	
04 DEC 88	2048	1625.6	1.9	2	383-87	1	P	C4	22 MAR 89	
11 DEC 88	2115	1628.1	9.8	2	382-87	1	P	C4	22 MAR 89	
17 DEC 88	1535	1621.1	3.6	2	380-87	1	P	C4	22 MAR 89	
22 DEC 88	1300	1622.9	9.6	2	374-87	1	P	C4	22 MAR 89	

Ragged Point, Barbados (RPB)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
14 NOV 87	1320	1686.4		1	8-85	1	P	C4	04 JAN 88	
22 NOV 87	1215	1670.0	-5.8	2	72-87	1	P	C4	04 JAN 88	
28 NOV 87	1215	1700.4	1.1	2	292-87	1	P	C4	04 JAN 88	
05 DEC 87	1215	1691.6	1.1	2	294-87	1	P	C4	04 JAN 88	
12 DEC 87	1215	1695.3	-3.5	2	152-85	1	P	C4	07 JAN 88	
19 DEC 87	1215	1692.7	3.9	2	290-87	1	P	C4	07 JAN 88	
26 DEC 87	1215	1678.9	4.9	2	242-85	1	P	C4	13 JAN 88	
02 JAN 88	1215	1697.6	-3.5	2	280-85	1	P	C4	13 JAN 88	
09 JAN 88	1215	1725.6	1.9	2	84-87	1	P	C4	18 FEB 88	
16 JAN 88	1215	1714.8	-4.0	2	296-87	1	P	C4	18 FEB 88	
23 JAN 88	1215	1723.1	1.7	2	486-85	1	P	C4	18 FEB 88	
30 JAN 88	1215	1698.4	0.0	2	746-85	1	P	C4	18 FEB 88	
06 FEB 88	1215	1699.2	3.8	2	314-85	1	P	C4	01 MAR 88	
13 FEB 88	1215	1704.1	8.4	2	350-86	1	P	C4	01 MAR 88	
19 MAR 88	1215	1683.0	-2.1	2	270-87	1	P	C4	08 APR 88	
26 MAR 88	1215	1701.4		1	406-86	1	P	C4	08 APR 88	
02 APR 88	1215	1688.1	-3.4	2	382-85	1	P	C4	18 APR 88	
09 APR 88	1215	1685.8	13.2	3	394-85	1	P	C4	18 APR 88	
16 APR 88	1215	1692.2	-12.5	3	72-87	1	P	C4	13 MAY 88	
23 APR 88	1215	1674.2	-9.6	2	492-85	1	P	C4	13 MAY 88	
30 APR 88	1215	1709.6	4.0	2	282-85	1	P	C4	17 MAY 88	
07 MAY 88	1215	1697.6	-.6	2	784-85	1	P	C4	17 MAY 88	
21 MAY 88	1215	1681.0	-3.1	2	579-87	1	P	C4	01 JUN 88	
21 MAY 88	1215	1680.7		1	580-87	1	P	C4	01 JUN 88	
28 MAY 88	1215	1694.4	-8.4	2	246-87	1	P	C4	13 JUN 88	
04 JUN 88	1215	1676.5	-4.6	2	366-86	1	P	C4	13 JUN 88	
11 JUN 88	1215	1686.1	-8.2	2	296-86	1	P	C4	07 JUL 88	
18 JUN 88	1215	1698.1	-1.7	2	542-87	1	P	C4	07 JUL 88	
25 JUN 88	1215	1673.2	4.9	2	296-85	1	P	C4	12 JUL 88	
02 JUL 88	1215	1681.9	5.6	2	451-85	1	P	C4	13 JUL 88	
02 JUL 88	1215	1685.0	15.6	2	452-85	1	P	C4	12 JUL 88	
16 JUL 88	1215	1681.7	-1.0	2	562-87	1	P	C4	11 AUG 88	
23 JUL 88	1215	1673.7	6.1	2	26-85	1	P	C4	10 AUG 88	
30 JUL 88	1215	1688.1	5.8	2	746-85	1	P	C4	10 AUG 88	
06 AUG 88	1215	1662.9	2.4	2	82-85	1	P	C4	26 AUG 88	
13 AUG 88	1215	1695.2	-.9	2	342-85	1	P	C4	26 AUG 88	
20 AUG 88	1215	1695.4	-8.9	2	116-87	1	P	C4	28 SEP 88	
27 AUG 88	1215	1697.5	-10.9	3	680-85	1	P	C4	28 SEP 88	
03 SEP 88	1215	1693.4	5.1	2	386-86	1	P	C4	22 SEP 88	
10 SEP 88	1215	1667.4	5.9	2	450-85	1	P	C4	22 SEP 88	
17 SEP 88	1215	1696.1	-11.1	3	310-86	1	P	C4	04 OCT 88	
24 SEP 88	1215	1699.3	.3	2	416-85	1	P	C4	04 OCT 88	
01 OCT 88	1215	1680.2	-4.1	2	358-86	1	P	C4	20 OCT 88	
08 OCT 88	1215	1685.1	.4	2	590-87	1	P	C4	20 OCT 88	
22 OCT 88	1215	1687.7	-7.1	2	346-86	1	P	C4	10 NOV 88	
29 OCT 88	1215	1735.4	6.2	2	234-87	1	P	C4	17 NOV 88	
05 NOV 88	1215	1698.3	-12.4	3	321-86	1	P	C4	17 NOV 88	
12 NOV 88	1215	1687.8	-1.6	2	114-81	1	P	C4	01 DEC 88	
19 NOV 88	1215	1710.4	-3.2	2	116-81	1	P	C4	01 DEC 88	
26 NOV 88	1215	1688.2	.1	2	142-81	1	P	C4	14 DEC 88	
03 DEC 88	1215	1720.9	-4.6	2	144-81	1	P	C4	12 DEC 88	
10 DEC 88	1215	1726.3	-3.6	2	172-81	1	P	C4	03 JAN 89	
17 DEC 88	1215	1703.5	3.3	2	174-81	1	P	C4	03 JAN 89	

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
25 JAN 86	1220	1619.1	-.1	2	666-83	1	P	C4	12 FEB 86	
31 JAN 86	1445	1663.9	1.3	2	630-83	1	P	C4	18 FEB 86	
10 FEB 86	1415	1650.4	-1.8	2	296-83	1	P	C4	19 FEB 86	
20 FEB 86	0720	1638.2	2.5	2	226-83	1	P	C4	27 FEB 86	
04 MAR 86	1215	1655.0	.1	2	270-85	1	P	C4	01 APR 86	
10 APR 86	0650	1613.7		1	388-85	1	P	C4	18 APR 86	
20 APR 86	1135	1594.1		1	962-83	1	P	C4	09 MAY 86	
24 APR 86	1220	1591.1	-5.8	2	1698-82	1	P	C4	28 MAY 86	
10 JUN 86	0713	1609.8	1.2	2	624-83	1	P	C4	30 JUL 86	
18 JUN 86	0800	1612.4	.9	2	690-83	1	P	C4	07 JUL 86	
09 JUL 86	0845	1609.3	4.8	2	694-83	1	P	C4	29 JUL 86	
17 JUL 86	0740	1619.6	.7	2	712-85	1	P	C4	29 JUL 86	
28 JUL 86	0705	1639.3	.3	2	550-85	1	P	C4	10 AUG 86	
04 AUG 86	0700	1624.0	-8.8	3	496-82	1	P	C4	25 SEP 86	
20 AUG 86	0615	1615.1	-2.1	2	1784-82	1	P	C4	23 SEP 86	
26 AUG 86	1037	1654.2	-7.5	2	662-83	1	P	C4	13 OCT 86	
16 SEP 86	1245	1621.3		1	795-83	1	P	C4	09 OCT 86	
22 SEP 86	0630	1616.0	.2	2	626-85	1	P	C4	30 SEP 86	
24 SEP 86	0730	1627.3	2.7	2	728-85	1	P	C4	13 OCT 86	
13 OCT 86	1000	1628.5	-1.5	2	108-85	1	P	C4	12 NOV 86	
30 OCT 86	1055	1604.9	-5.4	2	416-83	1	P	C4	29 DEC 86	
18 NOV 86	0654	1611.9	-.4	2	666-83	1	P	C4	11 DEC 86	
03 DEC 86	1110	1653.7	2.1	2	558-85	1	P	C4	30 DEC 86	
16 DEC 86	1230	1652.8	1.0	2	542-83	1	P	C4	30 DEC 86	
27 DEC 86	1130	1684.6	-8.6	2	1338-82	1	P	C4	15 JAN 87	
09 JAN 87	0747	1660.4	-1.2	2	682-83	1	P	C4	21 JAN 87	
19 JAN 87	0730	1717.1	3.8	2	1086-82	1	P	C4	03 FEB 87	
29 JAN 87	1000	1662.2	-2.6	2	1572-82	1	P	C4	10 FEB 87	
10 FEB 87	0730	1666.9	3.4	2	848-83	1	P	C4	24 FEB 87	
20 FEB 87	0647	1663.6	5.7	2	276-82	1	P	C4	05 MAR 87	
24 FEB 87	0833	1661.8	-4.8	2	846-83	1	P	C4	05 MAR 87	
03 MAR 87	1130	1655.4	-.8	2	10-85	1	P	C4	25 MAR 87	
12 MAR 87	0605	1649.9	4.2	2	680-83	1	P	C4	25 MAR 87	
19 MAR 87	1100	1662.3	-1.8	2	628-85	1	P	C4	30 APR 87	
17 APR 87	0915	1641.3	1.3	2	710-85	1	P	C4	30 APR 87	
03 OCT 87	0836	1625.0	-4.4	2	174-83	1	P	C4	26 OCT 87	
25 NOV 87	1400	1623.3	1.5	2	50-85	1	P	C4	08 DEC 87	
31 DEC 87	0800	1663.0	-4.9	2	312-83	1	P	C4	13 JAN 88	
11 JAN 88	1248	1694.0	1.9	2	510-85	1	P	C4	19 JAN 88	
14 JAN 88	0907	1691.2	-3.9	2	110-87	1	P	C4	26 JAN 88	
22 JAN 88	0730	1667.5	-3.8	2	544-85	1	P	C4	03 FEB 88	
28 JAN 88	0930	1684.8	10.1	2	374-86	1	P	C4	19 FEB 88	
06 FEB 88	1242	1674.7	-.6	2	356-86	1	P	C4	24 FEB 88	
22 FEB 88	1200	1665.9	1.6	2	58-85	1	P	C4	01 MAR 88	
18 MAR 88	1630	1664.9	11.4	3	336-86	1	P	C4	13 APR 88	
21 APR 88	1045	1615.4	-2.9	2	378-85	1	P	C4	04 MAY 88	
03 MAY 88	0840	1624.1	5.8	2	104-85	1	P	C4	16 MAY 88	
29 MAY 88	0900	1617.1	5.9	2	322-85	1	P	C4	14 JUN 88	
03 AUG 88	0712	1631.1	3.2	2	396-86	1	P	C4	18 AUG 88	
11 AUG 88	0800	1635.6	-.9	2	244-87	1	P	C4	18 AUG 88	
05 NOV 88	0800	1649.9		1	51-81	1	P	C4	17 NOV 88	
10 DEC 88	1030	1696.6	6.0	2	530-81	1	P	C4	05 JAN 89	
23 DEC 88	1107	1680.5	3.4	2	182-81	1	P	C4	09 JAN 89	

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
08 JAN 86	1730	1730.9	.5	2	60-83	1	P	C4	04 FEB 86	
16 JAN 86	0300	1734.9	5.1	2	888-83	1	P	C4	14 FEB 86	
23 JAN 86	0000	1720.0	1.3	2	1526-82	1	P	C4	14 FEB 86	
30 JAN 86	2100	1729.7	2.7	2	1162-82	1	P	C4	12 FEB 86	
06 FEB 86	0000	1734.1	11.4	3	760-83	1	P	C4	12 FEB 86	
13 FEB 86	0200	1726.2	-.2	2	1204-82	1	P	C4	27 FEB 86	
20 FEB 86	0130	1729.0	2.8	2	188-83	1	P	C4	27 FEB 86	
27 FEB 86	2300	1743.9	2.2	2	934-83	1	P	C4	21 MAR 86	
12 MAR 86	2230	1743.8		1	384-83	1	P	C4	01 APR 86	
20 MAR 86	2330	1749.6	-8.2	2	982-81	1	P	C4	01 APR 86	
02 APR 86	0015	1740.9	2.7	2	892-82	1	P	C4	24 APR 86	
18 APR 86	0010	1750.5	-1.5	2	448-83	1	P	C4	24 APR 86	
01 MAY 86	0030	1749.0	1.7	2	392-85	1	P	C4	23 JUL 86	
13 JUN 86	0000	1726.1	6.9	2	819-83	1	P	C4	30 JUL 86	
25 JUN 86	1845	1709.6	-7.9	2	948-83	1	P	C4	30 JUL 86	
11 JUL 86	0030	1709.3	5.8	2	400-85	1	P	C4	30 JUL 86	
15 AUG 86	0110	1736.3	-3.0	2	982-81	1	P	C4	13 OCT 86	
07 NOV 86	1910	1761.7		1	114-83	1	P	C4	07 JAN 87	
21 NOV 86	2110	1745.1	-2.7	2	744-83	1	P	C4	07 JAN 87	
24 DEC 86	0120	1738.9	4.1	2	366-85	1	P	C4	04 FEB 87	
03 JAN 87	0145	1750.7	4.3	2	1218-82	1	P	C4	04 FEB 87	
16 JAN 87	0245	1757.2	-5.5	2	26-85	1	P	C4	24 FEB 87	
31 JAN 87	0210	1749.2	2.3	2	1668-82	1	P	C4	18 FEB 87	
14 FEB 87	0120	1768.3	2.0	2	752-83	1	P	C4	25 MAR 87	
06 MAR 87	2035	1743.0	5.3	2	1630-82	1	P	C4	25 MAR 87	
13 MAR 87	0215	1741.3	-3.3	2	892-83	1	P	C4	28 APR 87	
21 MAR 87	0140	1737.0	-3.4	2	516-83	1	P	C4	28 APR 87	
18 APR 87	2300	1759.0	-.3	2	192-83	1	P	C4	30 APR 87	
27 APR 87	0115	1760.5	8.4	2	8-83	1	P	C4	30 APR 87	
04 MAY 87	0545	1753.9	-1.9	2	1172-82	1	P	C4	01 JUN 87	
19 MAY 87	0130	1756.0	-2.1	2	514-83	1	P	C4	01 JUN 87	
31 MAY 87	0100	1748.0	1.3	2	662-85	1	P	C4	23 JUN 87	
15 JUN 87	0000	1734.9	-2.4	2	658-85	1	P	C4	23 JUN 87	
28 JUN 87	2310	1737.2	5.7	2	619-85	1	P	C4	30 JUL 87	
12 JUL 87	2305	1721.2	3.2	2	624-85	1	P	C4	30 JUL 87	
19 JUL 87	2310	1721.2	2.5	2	604-85	1	P	C4	09 NOV 87	
27 JUL 87	0200	1718.7	1.6	2	622-83	1	P	C4	09 NOV 87	
03 AUG 87	0400	1720.1	-.1	2	1572-82	1	P	C4	04 SEP 87	
10 AUG 87	0100	1726.4	-2.8	3	528-85	1	P	C4	04 SEP 87	
23 AUG 87	0100	1702.7	6.7	2	64-85	1	P	C4	10 NOV 87	
31 AUG 87	0240	1732.6	-4.5	2	586-85	1	P	C4	09 NOV 87	
01 NOV 87	2300	1763.0	0.0	2	580-85	1	P	C4	18 NOV 87	
15 NOV 87	2300	1768.3	.8	2	336-85	1	P	C4	08 DEC 87	
22 NOV 87	1100	1761.1	-3.6	2	542-85	1	P	C4	08 DEC 87	
29 NOV 87	2320	1770.1	.6	2	150-85	1	P	C4	04 JAN 88	
06 DEC 87	2300	1780.3	3.7	2	164-85	1	P	C4	04 JAN 88	
10 DEC 87	2330	1772.3	-9.4	2	284-87	1	P	C4	19 JAN 88	
13 DEC 87	2350	1760.0	-1.1	2	13-85	1	P	C4	05 JAN 88	
20 DEC 87	2255	1768.7	-.7	2	30-85	1	P	C4	05 JAN 88	
28 DEC 87	0400	1765.5	-8.4	2	358-85	1	P	C4	19 JAN 88	
01 FEB 88	0000	1757.7		1	546-87	1	P	C4	16 FEB 88	
01 FEB 88	0000	1764.7		1	546-87	1	P	C4	18 FEB 88	
08 FEB 88	0020	1775.4	3.8	2	130-85	1	P	C4	16 FEB 88	
14 FEB 88	2330	1762.7	-10.8	3	398-86	1	P	C4	01 MAR 88	
22 FEB 88	0400	1770.2	4.7	2	370-85	1	P	C4	29 FEB 88	
07 MAR 88	0030	1763.9	.1	2	548-87	1	P	C4	24 MAR 88	
13 MAR 88	1330	1773.3	2.7	2	842-85	1	P	C4	24 MAR 88	
24 APR 88	2250	1773.1	-17.1	2	418-85	1	P	C4	16 MAY 88	
01 MAY 88	2304	1792.6	5.2	2	298-87	1	P	C4	16 MAY 88	
09 MAY 88	0145	1772.8	-3.2	2	106-85	1	P	C4	23 MAY 88	
15 MAY 88	2355	1758.9	.5	2	332-86	1	P	C4	23 MAY 88	
22 MAY 88	2330	1760.1	1.7	2	678-85	1	P	C4	14 JUN 88	
29 MAY 88	2300	1752.0	-3.6	2	270-86	1	P	C4	14 JUN 88	
06 JUN 88	0629	1748.1	-.1	2	596-87	1	P	C4	20 JUN 88	

Shemya Island (SHM)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
13 JUN 88	0030	1746.6	-5.6	2	226-86	1	P	C4	20 JUN 88	
20 JUN 88	2255	1733.0	-15.1	3	352-86	1	P	C4	01 JUL 88	
27 JUN 88	0100	1737.0	3.5	2	92-87	1	P	C4	01 JUL 88	
03 JUL 88	1215	1739.3	-7.4	2	250-85	1	P	C4	11 AUG 88	
10 JUL 88	2250	1741.3	-2.8	2	314-86	1	P	C4	11 AUG 88	
24 JUL 88	2300	1731.2	2.7	2	842-85	1	P	C4	16 AUG 88	
08 AUG 88	0217	1719.7	-2.7	2	535-87	1	P	C4	30 AUG 88	
08 AUG 88	0217	1723.6		1	536-87	1	P	C4	26 AUG 88	
15 AUG 88	0210	1754.9	-8.5	2	302-87	1	P	C4	26 AUG 88	
05 SEP 88	0430	1744.7	6.4	2	496-85	1	P	C4	15 SEP 88	
12 SEP 88	0000	1747.5	3.5	2	172-85	1	P	C4	20 OCT 88	
19 SEP 88	0030	1763.9	-1.7	2	168-85	1	P	C4	20 OCT 88	
25 SEP 88	1330	1763.3	-2.5	2	120-87	1	P	C4	19 OCT 88	
03 OCT 88	0000	1766.2	2.2	2	456-85	1	P	C4	19 OCT 88	
10 OCT 88	0000	1777.6	0.0	2	409-86	1	P	C4	24 OCT 88	
17 OCT 88	0300	1771.8	3.0	2	402-86	1	P	C4	24 OCT 88	
14 NOV 88	0300	1777.5	-6.6	2	792-85	1	P	C4	01 DEC 88	
20 NOV 88	0200	1763.1	-5.8	2	86-87	1	P	C4	02 DEC 88	
04 DEC 88	2225	1774.3	-10.5	3	242-87	1	P	C4	26 JAN 89	
18 DEC 88	0130	1779.3	-3.7	2	70-85	1	P	C4	31 JAN 89	

Scripps, California (SIO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
25 SEP 86	2110	1715.6		1	320-83	1	P	C4	13 OCT 86	
25 SEP 86	2115	1710.8	-9.1	2	342-83	1	P	C4	13 OCT 86	
25 SEP 86	2120	1715.5	6.4	2	356-83	1	P	C4	13 OCT 86	
25 SEP 86	2127	1711.4	.4	2	876-83	1	P	C4	13 OCT 86	
25 SEP 86	2134	1712.6	-9.6	2	1138-82	1	P	C4	13 OCT 86	
25 SEP 86	2140	1714.4	5.3	2	1176-82	1	P	C4	13 OCT 86	

Matatula Pt., Samoa (SMO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
03 JAN 86	0039	1585.6	-.1	2	2036-85	7	P	C3	09 JAN 86	
03 JAN 86	0039	1584.7	1.5	2	2835-85	1	P	C3	08 JAN 86	
16 JAN 86	2340	1619.5	8.5	2	2888-85	1	P	C4	03 FEB 86	
23 JAN 86	2311	1612.6	.6	2	2880-85	1	P	C4	13 FEB 86	
31 JAN 86	0011	1668.4		1	2874-85	1	P	C4	18 FEB 86	+
13 FEB 86	2137	1620.1		1	2820-85	1	P	C4	18 FEB 86	
06 MAR 86	2339	1622.3	-3.4	2	2860-85	1	P	C4	13 MAR 86	
17 MAR 86	0053	1618.2	1.1	2	2810-85	1	P	C4	01 APR 86	
27 MAR 86	2310	1599.2	-3.7	2	2806-85	1	P	C4	20 APR 86	
04 APR 86	0018	1611.9	2.9	2	2814-85	1	P	C4	18 APR 86	
10 APR 86	2052	1607.9	.4	2	2840-85	1	P	C4	20 APR 86	
16 APR 86	2132	1612.9	-7.6	2	2894-85	1	P	C4	22 APR 86	
25 APR 86	2132	1598.2	13.7	3	2820-85	1	P	C4	01 MAY 86	
01 MAY 86	2318	1607.1	-3.5	2	2888-85	1	P	C4	09 MAY 86	
05 MAY 86	2326	1604.4	2.4	2	2879-85	6	P	C4	07 AUG 86	
13 MAY 86	0220	1595.1	2.4	2	2833-85	6	P	C4	28 MAY 86	
15 MAY 86	2235	1599.8	3.9	2	2816-85	1	P	C4	28 MAY 86	
30 MAY 86	0033	1605.1	-4.2	2	2877-85	6	P	C4	10 JUN 86	
12 JUN 86	2249	1604.3	-1.6	2	2853-85	6	P	C4	07 AUG 86	
21 JUN 86	0020	1631.9		1	2806-85	1	P	C4	08 JUL 86	+
26 JUN 86	2323	1638.6	11.1	3	2838-85	1	P	C4	08 JUL 86	+
08 JUL 86	0317	1606.1	-8.7	2	2828-85	1	P	C4	05 AUG 86	
17 JUL 86	2131	1614.4	-6.6	2	2861-85	6	P	C4	07 AUG 86	
25 JUL 86	2251	1611.6	1.6	2	2052-85	6	S	C4	09 AUG 86	
31 JUL 86	2235	1612.1	-.5	2	2809-85	6	P	C4	10 AUG 86	
07 AUG 86	2321	1608.8	-12.4	3	2873-85	6	P	C4	19 SEP 86	
18 AUG 86	2348	1608.7	7.8	2	342-82	1	P	C4	25 SEP 86	
04 SEP 86	2131	1614.5	.3	2	694-83	1	P	C4	18 SEP 86	
25 SEP 86	2357	1615.9	-1.7	2	2120-85	6	S	C4	13 OCT 86	
02 OCT 86	2357	1610.9	2.7	2	2072-85	6	S	C4	09 OCT 86	
09 OCT 86	2058	1613.7	-1.3	2	2074-85	6	S	C4	14 OCT 86	
16 OCT 86	2258	1608.3	3.8	2	2066-85	6	S	C4	20 OCT 86	
24 OCT 86	2257	1612.8	-4.5	2	2080-85	6	S	C4	12 NOV 86	
30 OCT 86	2344	1603.9	6.8	2	2078-85	6	S	C4	14 NOV 86	
07 NOV 86	2325	1610.0		1	64-85	1	P	C4	17 NOV 86	
08 NOV 86	0057	1612.3	-3.7	2	2058-85	6	S	C4	17 NOV 86	
13 NOV 86	2307	1610.6	6.4	2	2022-85	1	P	C4	17 NOV 86	
14 NOV 86	0057	1605.5	-11.1	3	2070-85	6	S	C4	17 NOV 86	
20 NOV 86	2158	1607.9	-.6	2	2126-85	6	S	C4	10 DEC 86	
04 DEC 86	2058	1603.5	2.4	2	2120-85	6	S	C4	09 DEC 86	
15 DEC 86	2251	1600.7	10.3	2	2002-85	6	S	C4	30 DEC 86	
15 DEC 86	2315	1597.7	-4.4	2	914-83	1	P	C4	30 DEC 86	
18 DEC 86	2257	1595.2	-7.5	2	2098-85	6	S	C4	30 DEC 86	
26 DEC 86	2050	1611.5	-.6	2	2034-86	2	S	C4	08 JAN 87	
05 JAN 87	2258	1597.5	4.1	2	2016-86	2	S	C4	20 JAN 87	
08 JAN 87	2257	1610.3	-6.2	2	2050-86	2	S	C4	15 JAN 87	
15 JAN 87	2154	1627.5	4.3	3	542-85	1	P	C4	20 JAN 87	
15 JAN 87	2257	1626.8	.9	2	2026-86	2	S	C4	20 JAN 87	
22 JAN 87	2126	1594.9	4.1	2	358-85	1	P	C4	03 FEB 87	
22 JAN 87	2248	1595.4	-4.9	2	2042-86	2	S	C4	03 FEB 87	
29 JAN 87	1039	1592.2	1.2	2	587-85	1	P	C4	11 FEB 87	
29 JAN 87	1158	1590.5	4.1	2	2062-86	2	S	C4	11 FEB 87	
11 FEB 87	2358	1647.9	5.3	2	2034-86	2	S	C4	24 FEB 87	
17 FEB 87	2257	1624.7	.4	2	2018-86	2	S	C4	24 FEB 87	
19 FEB 87	2045	1621.8	-3.7	2	400-83	1	P	C4	24 FEB 87	
19 FEB 87	2050	1621.2	4.4	3	2026-86	2	S	C4	24 FEB 87	
26 FEB 87	2253	1607.1	3.8	2	172-83	1	P	C4	13 MAR 87	
26 FEB 87	2258	1603.6	2.3	2	2046-86	2	S	C4	13 MAR 87	
09 MAR 87	2029	1639.3	3.3	2	658-83	1	P	C4	13 MAR 87	
09 MAR 87	2057	1635.5	-.6	2	2058-86	2	S	C4	13 MAR 87	
12 MAR 87	2352	1613.8	-4.1	2	2032-86	2	S	C4	24 MAR 87	
19 MAR 87	2145	1618.8	3.4	2	698-83	1	P	C4	25 MAR 87	
19 MAR 87	2251	1619.8	4.8	2	2022-86	2	S	C4	25 MAR 87	
30 MAR 87	2157	1611.4	1.4	2	2054-86	2	S	C4	08 APR 87	

Matatula Pt., Samoa (SMO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
02 APR 87	2210	1604.5	-13.5	2	94-85	1	P	C4	08 APR 87	
02 APR 87	2257	1608.5	-9.8	2	2034-86	2	S	C4	08 APR 87	
16 APR 87	2357	1597.9	-1.0	2	2030-86	2	S	C4	05 MAY 87	
27 APR 87	2058	1606.5	-.9	2	2014-86	2	S	C4	05 MAY 87	
01 MAY 87	0057	1607.6	2.8	2	2020-86	2	S	C4	13 MAY 87	
07 MAY 87	2157	1610.2	10.3	3	2002-86	2	S	C4	21 MAY 87	
07 MAY 87	2235	1605.0	-3.5	2	880-83	1	P	C4	21 MAY 87	
14 MAY 87	2257	1608.3	.6	2	2024-86	2	S	C4	26 MAY 87	
14 MAY 87	2328	1609.5	-1.8	2	778-83	1	P	C4	26 MAY 87	
22 MAY 87	0051	1609.5	5.5	2	2008-86	2	S	C4	01 JUN 87	
22 MAY 87	0056	1608.3	-2.8	2	826-85	1	P	C4	09 JUN 87	
28 MAY 87	2138	1615.7	1.9	2	226-83	1	P	C4	15 JUN 87	
28 MAY 87	2257	1614.8	6.7	2	2046-86	2	S	C4	15 JUN 87	
04 JUN 87	2057	1615.8	-.7	2	2030-86	2	S	C4	23 JUN 87	
04 JUN 87	2126	1612.4	1.8	2	629-83	1	P	C4	23 JUN 87	
11 JUN 87	2259	1616.5	-1.5	2	2048-86	2	S	C4	23 JUN 87	
18 JUN 87	2159	1617.6	1.4	2	2020-86	2	S	C4	30 JUN 87	
18 JUN 87	2253	1620.4	4.2	2	600-85	1	P	C4	30 JUN 87	
25 JUN 87	2357	1621.7	-6.8	2	2052-86	2	S	C4	08 JUL 87	
02 JUL 87	2158	1619.2	-.4	2	2004-86	2	S	C4	13 JUL 87	
02 JUL 87	2350	1621.1	-1.3	2	186-82	1	P	C4	13 JUL 87	
09 JUL 87	2117	1619.0	-.8	2	690-85	1	P	C4	13 JUL 87	
09 JUL 87	2158	1615.8	-2.2	2	2042-86	2	S	C4	13 JUL 87	
21 JUL 87	0029	1625.2	-.6	2	806-85	1	P	C4	30 JUL 87	
21 JUL 87	0058	1624.6	-2.9	2	2018-86	2	S	C4	30 JUL 87	
23 JUL 87	2207	1625.5	-1.2	2	628-85	1	P	C4	11 AUG 87	
23 JUL 87	2258	1626.9	-4.2	3	2020-86	2	S	C4	11 AUG 87	
31 JUL 87	0059	1623.5	-2.7	2	58-85	1	P	C4	11 AUG 87	
31 JUL 87	0158	1624.0	-.4	2	2002-86	2	S	C4	12 AUG 87	
06 AUG 87	2058	1623.1	-4.0	2	2030-86	2	S	C4	12 AUG 87	
06 AUG 87	2138	1626.9	-5.1	3	1164-82	1	P	C4	12 AUG 87	
14 AUG 87	1950	1621.9	0.0	2	2004-86	2	S	C4	09 SEP 87	
14 AUG 87	2018	1626.9	1.9	2	274-86	1	P	C4	09 SEP 87	
20 AUG 87	2151	1622.2	1.8	3	238-86	1	P	C4	04 SEP 87	
20 AUG 87	2250	1622.2	-.2	2	2050-86	2	S	C4	09 SEP 87	
28 AUG 87	1958	1619.5	-1.3	3	2014-86	2	S	C4	11 SEP 87	
28 AUG 87	2106	1625.2	-1.6	2	666-83	1	P	C4	11 SEP 87	
03 SEP 87	2225	1620.5	8.2	2	3060-83	5	T	C4	29 SEP 87	
03 SEP 87	2358	1621.4	4.7	2	2006-86	2	S	C4	15 SEP 87	
10 SEP 87	2204	1624.0	.6	2	3095-84	5	T	C4	29 SEP 87	
10 SEP 87	2257	1625.6	.3	2	2002-86	2	S	C4	24 SEP 87	
17 SEP 87	2214	1624.1	-3.0	2	18-85	1	P	C4	30 SEP 87	
17 SEP 87	2258	1621.9	-3.6	2	2022-86	2	S	C4	24 SEP 87	
24 SEP 87	2345	1620.7	4.1	2	3026-85	5	T	C4	14 OCT 87	
25 SEP 87	0058	1622.2	-5.6	2	2062-86	2	S	C4	08 OCT 87	
30 SEP 87	0127	1621.2	-.7	2	2012-87	3	P	C4	14 OCT 87	
30 SEP 87	0137	1621.7	-1.6	2	2010-87	3	P	C4	14 OCT 87	
30 SEP 87	0145	1624.5	1.9	2	234-87	1	P	C4	14 OCT 87	
30 SEP 87	0153	1620.5	6.6	2	2014-87	3	P	C4	14 OCT 87	
30 SEP 87	0201	1622.8	-4.2	2	3002-83	5	T	C4	14 OCT 87	
30 SEP 87	0205	1621.5	2.4	2	2006-87	3	P	C4	14 OCT 87	
30 SEP 87	0216	1628.9	7.4	3	236-87	1	P	C4	14 OCT 87	
30 SEP 87	0225	1621.6	-.5	2	2008-87	3	P	C4	14 OCT 87	
02 OCT 87	0258	1621.1	-.3	2	564-83	6	S	C4	14 OCT 87	
02 OCT 87	0323	1623.2	3.2	2	2002-87	3	P	C4	14 OCT 87	
02 OCT 87	0330	1628.1	5.4	2	3040-85	5	T	C4	14 OCT 87	
02 OCT 87	0333	1621.6	-3.4	2	2004-87	3	P	C4	14 OCT 87	
02 OCT 87	0342	1623.9	.4	2	534-83	1	P	C4	14 OCT 87	
02 OCT 87	0350	1618.1	1.2	2	2016-87	3	P	C4	14 OCT 87	
02 OCT 87	0359	1622.5	1.1	2	2018-87	3	P	C4	14 OCT 87	
02 OCT 87	0408	1617.7	-4.8	2	2020-87	3	P	C4	14 OCT 87	
08 OCT 87	2159	1622.1	-3.6	2	458-83	6	S	C4	27 OCT 87	
08 OCT 87	2217	1621.4	3.7	2	432-83	1	P	C4	27 OCT 87	
08 OCT 87	2218	1626.8	.6	2	3008-83	5	T	C4	10 NOV 87	
15 OCT 87	1959	1629.4	-8.9	2	408-85	6	S	C4	09 NOV 87	

Matatula Pt., Samoa (SMO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
15 OCT 87	2234	1623.2	-4.7	2	3018-84	5	T	C4	10 NOV 87	
23 OCT 87	0046	1624.9	5.2	2	128-87	1	P	C4	09 NOV 87	
23 OCT 87	0050	1623.6	3.6	2	3084-84	5	T	C4	10 NOV 87	
23 OCT 87	0158	1629.6	.5	2	252-87	6	S	C4	09 NOV 87	
29 OCT 87	2038	1625.3	2.3	2	676-83	1	P	C4	09 NOV 87	
29 OCT 87	2038	1631.3	9.6	2	3096-84	5	T	C4	10 NOV 87	
29 OCT 87	2158	1622.7	-6.5	2	32-85	6	S	C4	09 NOV 87	
06 NOV 87	0057	1622.5	13.6	3	776-85	1	P	C4	17 NOV 87	
06 NOV 87	0101	1622.2	-9.9	2	3006-85	5	T	C4	23 NOV 87	
06 NOV 87	0158	1618.9	2.9	2	812-85	6	S	C4	17 NOV 87	
13 NOV 87	0043	1617.4	-4.4	2	496-85	1	P	C4	24 NOV 87	
13 NOV 87	0053	1614.2	-1.3	2	3076-84	5	T	C4	23 NOV 87	
13 NOV 87	0058	1612.9	7.2	2	522-85	6	S	C4	24 NOV 87	
19 NOV 87	2345	1617.6	3.4	2	3090-84	5	T	C4	22 DEC 87	
19 NOV 87	2358	1619.7	8.5	2	24-85	6	S	C4	04 DEC 87	
25 NOV 87	2140	1621.3	-9.9	2	90-85	1	P	C4	04 DEC 87	
25 NOV 87	2146	1613.9	0.0	2	3062-83	5	T	C4	08 DEC 87	
25 NOV 87	2220	1614.2	3.2	2	78-87	6	S	C4	04 DEC 87	
03 DEC 87	2216	1625.5	-2.4	2	270-87	1	P	C4	15 DEC 87	
03 DEC 87	2218	1628.3	-1.1	2	3014-83	5	T	C4	08 DEC 87	
03 DEC 87	2256	1623.2	-8.3	2	46-85	6	S	C4	15 DEC 87	
10 DEC 87	2205	1609.0	-3.8	2	542-87	1	P	C4	31 DEC 87	
10 DEC 87	2209	1613.9	-6.2	2	3008-85	5	T	C4	22 DEC 87	
10 DEC 87	2257	1610.1	1.2	2	2038-86	2	S	C4	31 DEC 87	
17 DEC 87	2148	1620.5	5.0	2	3072-83	5	T	C4	13 JAN 88	
17 DEC 87	2156	1624.5	.2	2	144-85	1	P	C4	04 JAN 88	
17 DEC 87	2257	1622.2	.2	2	2042-86	2	S	C4	04 JAN 88	
24 DEC 87	2255	1621.6	-4.6	2	3074-83	5	T	C4	05 JAN 88	
24 DEC 87	2258	1619.7	2.7	2	350-86	1	P	C4	06 JAN 88	
24 DEC 87	2358	1619.2	.5	2	2048-86	2	S	C4	06 JAN 88	
31 DEC 87	1958	1609.3	-3.5	2	2002-86	2	S	C4	06 JAN 88	
31 DEC 87	2021	1610.5	4.9	2	254-87	1	P	C4	06 JAN 88	
31 DEC 87	2025	1613.9	-3.8	2	3092-83	5	T	C4	05 JAN 88	
07 JAN 88	2214	1611.0	-6.7	2	3046-84	5	T	C4	13 JAN 88	
07 JAN 88	2219	1617.4	6.0	2	108-85	1	P	C4	13 JAN 88	
07 JAN 88	2357	1609.1	6.5	2	330-85	6	S	C4	13 JAN 88	
14 JAN 88	2031	1647.6	7.7	2	3052-84	5	T	C4	16 FEB 88	
14 JAN 88	2035	1646.8	1.2	2	422-86	1	P	C4	26 JAN 88	
14 JAN 88	2058	1642.7	3.8	2	2008-86	2	S	C4	26 JAN 88	
21 JAN 88	2144	1607.0	.6	2	3062-83	5	T	C4	03 FEB 88	
21 JAN 88	2146	1613.7	-3.9	2	408-86	1	P	C4	03 FEB 88	
21 JAN 88	2258	1607.9	2.1	2	2044-86	2	S	C4	03 FEB 88	
28 JAN 88	2158	1631.5	9.2	2	2026-86	2	S	C4	19 FEB 88	
28 JAN 88	2221	1630.5	-.6	2	3078-84	5	T	C4	03 FEB 88	
28 JAN 88	2231	1626.6	-1.3	2	2046-87	3	P	C4	04 FEB 88	
04 FEB 88	2211	1620.4	-1.8	2	3056-83	5	T	C4	16 FEB 88	
04 FEB 88	2214	1622.5	-7.2	2	2039-87	3	P	C4	18 FEB 88	
04 FEB 88	2258	1618.7	5.4	2	390-85	6	S	C4	16 FEB 88	
11 FEB 88	2058	1638.2	-10.8	3	152-85	6	S	C4	26 FEB 88	
11 FEB 88	2201	1630.5	-8.8	2	334-85	1	P	C4	26 FEB 88	
11 FEB 88	2201	1639.6	-1.4	2	2037-87	3	P	C4	26 FEB 88	
11 FEB 88	2204	1633.6	4.8	2	3080-83	5	T	C4	09 MAR 88	
25 FEB 88	2058	1644.7	1.9	2	2038-86	2	S	C4	10 MAR 88	
25 FEB 88	2134	1640.4	-.5	2	3078-83	5	T	C4	09 MAR 88	
25 FEB 88	2140	1649.0	-5.2	2	419-85	1	P	C4	10 MAR 88	
25 FEB 88	2140	1644.9	-2.5	2	2042-87	3	P	C4	10 MAR 88	
09 MAR 88	0025	1606.2	-2.7	2	3020-84	5	T	C4	24 MAR 88	
09 MAR 88	0031	1610.0	1.5	2	270-85	1	P	C4	23 MAR 88	
09 MAR 88	0031	1606.2	6.4	2	2032-87	3	P	C4	23 MAR 88	
09 MAR 88	0058	1606.7	4.2	2	2006-86	2	S	C4	23 MAR 88	
10 MAR 88	2307	1601.7	-1.2	2	3042-84	5	T	C4	24 MAR 88	
10 MAR 88	2321	1609.5	1.5	2	552-85	1	P	C4	23 MAR 88	
10 MAR 88	2321	1607.0	4.4	2	2030-87	3	P	C4	23 MAR 88	
11 MAR 88	0058	1608.2	2.0	2	2048-86	2	S	C4	23 MAR 88	
17 MAR 88	2123	1616.4	-5.0	2	3098-83	5	T	C4	22 APR 88	

Matatula Pt., Samoa (SMO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
17 MAR 88	2129	1614.5	-6.9	2	2034-87	3	P	C4	11 APR 88	
17 MAR 88	2158	1620.3	-1.1	2	2044-86	2	S	C4	12 APR 88	
24 MAR 88	1117	1610.4	-3.2	2	3022-83	5	T	C4	22 APR 88	
24 MAR 88	2230	1618.6	11.0	3	370-85	1	P	C4	08 APR 88	
24 MAR 88	2230	1617.5	-4.0	2	2038-87	3	P	C4	08 APR 88	
24 MAR 88	2348	1619.5	-6.0	2	2008-86	2	S	C4	08 APR 88	
31 MAR 88	2127	1624.8	-7.9	2	2018-86	2	S	C4	27 APR 88	
31 MAR 88	2216	1626.4	1.2	2	3079-84	5	T	C4	26 APR 88	
31 MAR 88	2220	1625.4	-4.1	2	130-85	1	P	C4	11 APR 88	
31 MAR 88	2220	1621.4	5.0	2	2036-87	3	P	C4	11 APR 88	
16 APR 88	0058	1649.5	.9	2	3104-83	5	T	C4	26 APR 88	
16 APR 88	0103	1653.8	-9.8	2	82-85	1	P	C4	27 APR 88	
16 APR 88	0103	1649.0	4.8	2	2096-87	3	P	C4	27 APR 88	
16 APR 88	0140	1649.8	10.4	3	2014-86	2	S	C4	29 APR 88	
22 APR 88	0048	1616.2	-6.7	2	3030-85	5	T	C4	13 MAY 88	
22 APR 88	0115	1616.7	-3.6	2	2046-87	3	P	C4	16 MAY 88	
22 APR 88	0158	1613.4	-3.0	2	2004-86	2	S	C4	17 MAY 88	
28 APR 88	2256	1627.4	-4.8	2	3040-85	5	T	C4	13 MAY 88	
28 APR 88	2332	1628.7	.1	2	2040-87	3	P	C4	16 MAY 88	
29 APR 88	0010	1624.6	-7.5	2	2038-86	2	S	C4	17 MAY 88	
05 MAY 88	2131	1617.8	-7.1	2	3016-84	5	T	C4	23 MAY 88	
05 MAY 88	2134	1619.7	-2.9	2	546-87	1	P	C4	13 MAY 88	
05 MAY 88	2148	1616.3	-3.5	2	2036-87	3	P	C4	16 MAY 88	
05 MAY 88	2315	1611.8	-.2	2	2042-86	2	S	C4	31 MAY 88	
12 MAY 88	2121	1612.5	-1.2	2	3138-86	5	T	C4	23 MAY 88	
12 MAY 88	2138	1608.7	2.5	2	2042-87	3	P	C4	23 MAY 88	
12 MAY 88	2219	1612.5	-.8	2	2024-86	2	S	C4	31 MAY 88	
19 MAY 88	2333	1616.5	-1.2	2	3006-84	5	T	C4	01 JUN 88	
19 MAY 88	2346	1612.5	8.7	2	2038-87	3	P	C4	31 MAY 88	
20 MAY 88	0113	1615.5	-2.8	2	2036-86	2	S	C4	01 JUN 88	
26 MAY 88	2207	1641.2	4.6	3	3100-83	5	T	C4	01 JUN 88	+
26 MAY 88	2221	1644.3	-.1	2	194-85	1	P	C4	01 JUN 88	+
26 MAY 88	2229	1638.0	-2.5	2	2032-87	3	P	C4	01 JUN 88	+
26 MAY 88	2313	1634.8	-2.2	2	2006-86	2	S	C4	01 JUN 88	+
02 JUN 88	2104	1624.2	3.4	2	2018-86	2	S	C4	15 JUN 88	
02 JUN 88	2113	1619.3	-5.4	2	3026-85	5	T	C4	15 JUN 88	
02 JUN 88	2117	1624.2	-4.5	2	560-85	1	P	C4	13 JUN 88	
02 JUN 88	2128	1619.8	1.2	2	2034-87	3	P	C4	13 JUN 88	
09 JUN 88	2224	1618.5	5.8	2	3064-84	5	T	C4	15 JUN 88	
09 JUN 88	2239	1626.6	-10.3	2	358-85	1	P	C4	14 JUN 88	
09 JUN 88	2247	1623.2	3.6	2	2036-87	3	P	C4	15 JUN 88	
09 JUN 88	2330	1621.3	-2.8	2	2014-86	2	S	C4	15 JUN 88	
16 JUN 88	2226	1621.4	-1.3	2	3002-84	5	T	C4	28 JUN 88	
16 JUN 88	2232	1620.7	-11.4	3	300-85	1	P	C4	22 JUN 88	
16 JUN 88	2248	1621.2	-5.7	2	2030-87	3	P	C4	22 JUN 88	
16 JUN 88	2331	1620.4	-7.5	3	2002-86	2	S	C4	28 JUN 88	
23 JUN 88	2145	1622.5	0.0	2	2062-86	2	S	C4	28 JUN 88	
23 JUN 88	2240	1619.0	-2.8	2	3016-85	5	T	C4	28 JUN 88	
23 JUN 88	2243	1624.7	7.0	2	216-86	1	P	C4	28 JUN 88	
23 JUN 88	2259	1629.9	.7	2	2044-87	3	P	C4	28 JUN 88	
30 JUN 88	2149	1627.1	10.0	3	2056-86	2	S	C4	13 JUL 88	
30 JUN 88	2224	1627.8	7.8	2	3022-84	5	T	C4	07 JUL 88	
30 JUN 88	2227	1625.6	1.6	2	244-86	1	P	C4	07 JUL 88	
30 JUN 88	2238	1624.4	-7.1	2	2096-87	3	P	C4	07 JUL 88	
07 JUL 88	2120	1621.9	.5	2	2004-86	2	S	C4	13 JUL 88	
07 JUL 88	2244	1622.8	1.3	2	3020-84	5	T	C4	09 AUG 88	
07 JUL 88	2246	1631.1	-8.8	2	22-85	1	P	C4	13 JUL 88	
07 JUL 88	2255	1633.4	-7.1	2	2040-87	3	P	C4	12 JUL 88	
14 JUL 88	2328	1630.0	8.0	2	2024-86	2	S	C4	11 AUG 88	
15 JUL 88	0018	1632.2	-1.0	2	3068-84	5	T	C4	09 AUG 88	
15 JUL 88	0034	1631.4	-1.1	2	2046-87	3	P	C4	11 AUG 88	
21 JUL 88	2231	1630.3	3.8	2	2042-86	2	S	C4	11 AUG 88	
21 JUL 88	2256	1634.0	-4.4	2	3010-84	5	T	C4	09 AUG 88	
21 JUL 88	2304	1628.0	-4.2	2	2042-87	3	P	C4	11 AUG 88	
28 JUL 88	2219	1632.0	-.4	2	2018-86	2	S	C4	17 AUG 88	

Matatula Pt., Samoa (SMO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
28 JUL 88	2237	1634.9	2.5	2	586-87	1	P	C4	10 AUG 88	
28 JUL 88	2243	1632.5	6.1	2	3088-84	5	T	C4	09 AUG 88	
28 JUL 88	2248	1633.1	.4	2	2032-87	3	P	C4	10 AUG 88	
04 AUG 88	2220	1631.7	-11.6	3	2044-86	2	S	C4	17 AUG 88	
04 AUG 88	2239	1628.9	.3	2	3064-84	5	T	C4	18 AUG 88	
04 AUG 88	2254	1635.9	11.5	3	2034-87	3	P	C4	17 AUG 88	
11 AUG 88	2246	1632.7	-1.6	2	2012-86	2	S	C4	26 AUG 88	
11 AUG 88	2304	1627.2	-4.6	2	3008-84	5	T	C4	18 AUG 88	
11 AUG 88	2311	1625.9	.9	2	2036-87	3	P	C4	18 AUG 88	
18 AUG 88	2143	1640.7	4.1	2	2014-86	2	S	C4	26 AUG 88	
18 AUG 88	2221	1644.1	-3.2	2	3014-83	5	T	C4	01 SEP 88	
18 AUG 88	2228	1638.6	2.3	2	306-87	1	P	C4	26 AUG 88	
18 AUG 88	2242	1641.2	3.8	2	2038-87	3	P	C4	26 AUG 88	
25 AUG 88	2230	1648.4	6.6	2	2002-86	2	S	C4	09 SEP 88	
25 AUG 88	2251	1647.0	-4.4	2	3102-83	5	T	C4	01 SEP 88	
25 AUG 88	2254	1648.0	-2.3	2	334-87	1	P	C4	01 SEP 88	
25 AUG 88	2305	1650.1	8.1	2	2044-87	3	P	C4	01 SEP 88	
01 SEP 88	1942	1626.8	.4	2	2006-86	2	S	C4	09 SEP 88	
01 SEP 88	2036	1637.8	-11.4	3	3076-84	5	T	C4	19 SEP 88	
01 SEP 88	2037	1634.9	-9.2	2	350-86	1	P	C4	09 SEP 88	
01 SEP 88	2047	1635.9	-9.2	2	2040-87	3	P	C4	09 SEP 88	
08 SEP 88	2135	1637.8	8.5	2	3034-85	5	T	C4	20 SEP 88	
08 SEP 88	2150	1634.5	-1.9	2	2030-87	3	P	C4	19 SEP 88	
15 SEP 88	2238	1630.4	-4.8	2	3068-83	5	T	C4	29 SEP 88	
15 SEP 88	2255	1628.2	4.9	2	2052-87	3	P	C4	22 SEP 88	
15 SEP 88	2330	1630.4	4.7	2	2040-86	2	S	C4	29 SEP 88	
22 SEP 88	2226	1636.6	1.6	2	3074-83	5	T	C4	29 SEP 88	
22 SEP 88	2230	1635.9	-5.4	2	584-85	1	P	C4	28 SEP 88	
22 SEP 88	2240	1634.0	-1.8	2	2007-87	3	P	C4	29 SEP 88	
22 SEP 88	2331	1635.7	-3.3	2	2028-86	2	S	C4	29 SEP 88	
29 SEP 88	2147	1641.5	-5.3	2	3036-84	5	T	C4	04 OCT 88	
29 SEP 88	2149	1638.0	2.6	2	372-86	1	P	C4	04 OCT 88	
29 SEP 88	2201	1640.4	.7	2	2041-87	3	P	C4	04 OCT 88	
29 SEP 88	2201	1637.0		1	2042-87	3	P	C4	04 OCT 88	
29 SEP 88	2209	1639.0	.4	2	2036-86	2	S	C4	04 OCT 88	
06 OCT 88	2154	1639.0	2.1	2	3068-84	5	T	C4	24 OCT 88	
06 OCT 88	2208	1640.5	-11.7	3	2046-87	3	P	C4	20 OCT 88	
06 OCT 88	2319	1639.9	1.5	2	2042-86	2	S	C4	20 OCT 88	
13 OCT 88	2225	1633.5	14.1	3	3106-83	5	T	C4	24 OCT 88	
13 OCT 88	2232	1638.1	-.3	2	264-86	1	P	C4	20 OCT 88	
13 OCT 88	2244	1637.4	-5.3	2	2038-87	3	P	C4	20 OCT 88	
13 OCT 88	2332	1630.7	4.1	2	2026-86	2	S	C4	20 OCT 88	
20 OCT 88	2240	1642.2	4.7	2	2004-60	2	S	C4	04 NOV 88	
20 OCT 88	2258	1646.0	-11.2	3	3026-85	5	T	C4	04 NOV 88	
20 OCT 88	2301	1645.7	-2.0	2	28-81	1	P	C4	31 OCT 88	
20 OCT 88	2312	1641.8	3.1	2	2010-62	3	P	C4	31 OCT 88	
27 OCT 88	2137	1636.5	-4.8	2	2006-60	2	S	C4	04 NOV 88	
27 OCT 88	2207	1635.8	1.5	2	3040-85	5	T	C4	04 NOV 88	
27 OCT 88	2224	1637.5	1.6	2	2004-62	3	P	C4	04 NOV 88	
03 NOV 88	2219	1647.6	-9.9	2	2010-60	2	S	C4	17 NOV 88	
03 NOV 88	2247	1646.5	6.7	2	3004-60	5	T	C4	16 NOV 88	
03 NOV 88	2304	1646.0	-2.4	2	2002-62	3	P	C4	09 NOV 88	
10 NOV 88	2037	1633.0	7.3	2	2002-60	2	S	C4	16 NOV 88	
10 NOV 88	2147	1634.3	.6	2	3010-60	5	T	C4	16 NOV 88	
10 NOV 88	2153	1633.8	-3.5	2	2024-62	3	P	C4	16 NOV 88	
18 NOV 88	2208	1643.4	-3.5	2	3018-84	5	T	C4	02 DEC 88	
18 NOV 88	2223	1642.5	7.6	2	2016-62	3	P	C4	02 DEC 88	
18 NOV 88	2239	1642.4	.3	2	2022-60	2	S	C4	05 DEC 88	
23 NOV 88	2139	1635.7	5.0	2	2024-60	2	S	C4	05 DEC 88	
23 NOV 88	2300	1637.8	1.9	2	3058-60	5	T	C4	02 DEC 88	
23 NOV 88	2305	1631.7	-.3	2	508-81	1	P	C4	02 DEC 88	
23 NOV 88	2316	1636.8	-11.5	3	2022-62	3	P	C4	02 DEC 88	
01 DEC 88	2139	1634.0	-3.2	2	2032-60	2	S	C4	12 DEC 88	
01 DEC 88	2210	1636.0	-4.7	2	576-81	1	P	C4	12 DEC 88	
01 DEC 88	2222	1631.8	-2.1	2	2008-62	3	P	C4	12 DEC 88	

Matatula Pt., Samoa (SMO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
08 DEC 88	2341	1643.9	.3	2	2030-60	2	S	C4	12 DEC 88	
09 DEC 88	0026	1642.5	-5.7	2	3008-70	5	T	C4	14 DEC 88	
09 DEC 88	0028	1636.0	-10.6	2	585-81	1	P	C4	14 DEC 88	
16 DEC 88	2230	1628.2	5.2	2	2038-60	2	S	C4	03 JAN 89	
16 DEC 88	2315	1622.9	1.8	2	3008-83	5	T	C4	03 JAN 89	
16 DEC 88	2318	1629.6	-2.3	2	548-81	1	P	C4	21 DEC 88	
16 DEC 88	2329	1629.0	-5.0	2	2020-62	3	P	C4	21 DEC 88	
22 DEC 88	2147	1631.1	4.1	2	2035-60	2	S	C4	04 JAN 89	
22 DEC 88	2207	1639.7	1.4	2	3008-60	5	T	C4	03 JAN 89	
22 DEC 88	2210	1636.3	4.8	2	614-81	1	P	C4	03 JAN 89	
22 DEC 88	2223	1639.7	11.0	3	2010-62	3	P	C4	04 JAN 89	

South Pole, Antarctica (SPO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
03 JAN 86	0235	1589.9	-2.5	2	92-85	1	P	C4	14 APR 86	
18 JAN 86	0815	1582.4	-2.8	2	104-85	1	P	C4	14 APR 86	
31 JAN 86	0237	1583.8	1.2	2	96-85	1	P	C4	14 APR 86	
08 FEB 86	2350	1578.8	-1.1	2	750-85	1	S	C4	15 APR 87	
22 FEB 86	0340	1576.3	-6.2	2	748-85	1	S	C4	15 APR 87	
08 MAR 86	0853	1583.2	5.7	2	746-85	1	S	C4	15 APR 87	
22 MAR 86	0445	1582.2	-.5	2	820-85	1	S	C4	16 APR 87	
29 MAR 86	0247	1584.6	2.1	2	767-85	1	P	C4	14 APR 87	
05 APR 86	0217	1583.3	-1.9	2	818-85	1	S	C4	16 APR 87	
12 APR 86	0428	1588.2	-8.0	2	766-85	1	P	C4	14 APR 87	
19 APR 86	0345	1590.8	-1.6	2	764-85	1	S	C4	16 APR 87	
26 APR 86	0242	1591.6	2.2	2	816-85	1	P	C4	14 APR 87	
03 MAY 86	0404	1587.2	1.8	2	743-85	1	S	C4	16 APR 87	
10 MAY 86	0334	1587.1	-3.4	2	795-85	1	P	C4	16 APR 87	
15 MAY 86	0755	1594.5	-2.5	2	793-85	1	P	C4	16 APR 87	
31 MAY 86	0754	1596.0	-2.2	2	792-85	1	S	C4	15 APR 87	
01 JUN 86	0045	1597.3	-11.3	3	739-85	1	P	C4	16 APR 87	
14 JUN 86	0852	1598.3	6.0	2	762-85	1	S	C4	16 APR 87	
15 JUN 86	0615	1600.4	3.1	2	813-85	1	P	C4	15 APR 87	
28 JUN 86	0342	1600.3	5.9	2	812-85	1	S	C4	16 APR 87	
12 JUL 86	0305	1602.8	-2.0	2	809-85	1	S	C4	16 APR 87	
26 JUL 86	0020	1614.9	.5	2	756-85	1	S	C4	15 APR 87	
15 AUG 86	0515	1611.9	1.8	2	806-85	1	P	C4	15 APR 87	
23 AUG 86	0220	1612.4	1.3	3	752-85	1	S	C4	15 APR 87	
01 SEP 86	0935	1613.4	.3	2	803-85	1	P	C4	16 APR 87	
15 SEP 86	0810	1613.0	.3	2	784-85	1	P	C4	14 APR 87	
20 SEP 86	0850	1617.3	6.3	2	830-85	1	S	C4	16 APR 87	
01 OCT 86	0952	1613.1	-8.6	2	782-85	1	P	C4	15 APR 87	
04 OCT 86	0954	1616.0	-1.3	2	786-85	1	S	C4	16 APR 87	
15 OCT 86	0915	1613.9	9.2	2	780-85	1	P	C4	14 APR 87	
18 OCT 86	0540	1614.6	2.8	2	777-85	1	S	C4	08 DEC 86	
01 NOV 86	0430	1617.2	-2.5	2	827-85	1	S	C4	08 DEC 86	
01 NOV 86	1039	1611.8	3.8	2	738-85	1	P	C4	08 DEC 86	
15 NOV 86	0516	1614.7	1.0	2	736-85	1	P	C4	08 DEC 86	
22 NOV 86	0230	1605.5	-.2	2	788-85	1	S	C4	08 DEC 86	
29 NOV 86	0149	1606.3	7.8	2	770-85	1	P	C4	15 JAN 87	
06 DEC 86	2352	1610.1	-8.9	2	100-83	1	S	C4	07 JAN 87	
15 DEC 86	0601	1600.8	-8.2	2	658-83	1	P	C4	07 JAN 87	
22 DEC 86	0859	1606.5	-4.0	2	388-85	1	S	C4	09 JAN 87	
01 JAN 87	0830	1600.5	-2.0	2	292-82	1	P	C4	09 JAN 87	
04 JAN 87	0630	1598.7	-2.5	2	772-85	1	P	C4	15 JAN 87	
08 JAN 87	0253	1597.7	-1.2	2	422-83	1	S	C4	16 APR 87	
12 JAN 87	1050	1599.3	-4.6	2	826-85	1	P	C4	15 APR 87	
15 JAN 87	0413	1595.9	.2	2	774-85	1	P	C4	15 APR 87	
16 JAN 87	0931	1598.0	-6.0	2	822-85	1	P	C4	15 APR 87	
17 JAN 87	0755	1594.9	1.6	2	824-85	1	P	C4	15 APR 87	
18 JAN 87	0453	1595.8	2.8	2	776-85	1	P	C4	15 APR 87	
19 JAN 87	0634	1595.5	-1.8	2	108-85	1	P	C4	15 APR 87	
25 JAN 87	0437	1587.8	-7.0	2	363-86	1	S	C4	09 DEC 87	
01 FEB 87	0917	1591.0	-1.2	2	408-86	1	P	C4	09 DEC 87	
07 FEB 87	2345	1591.8	5.4	2	411-86	1	S	C4	11 DEC 87	
15 FEB 87	0832	1590.2	-3.2	2	414-86	1	P	C4	09 DEC 87	
22 FEB 87	2249	1590.4	-3.3	2	370-86	1	S	C4	09 DEC 87	
01 MAR 87	0254	1592.1	-.7	2	368-86	1	P	C4	11 DEC 87	
07 MAR 87	2315	1593.4	-1.1	2	410-86	1	S	C4	11 DEC 87	
15 MAR 87	0055	1592.9	2.0	2	366-86	1	P	C4	11 DEC 87	
21 MAR 87	2310	1594.2	1.6	2	398-86	1	S	C4	11 DEC 87	
01 APR 87	0048	1598.0	-3.3	2	399-86	1	P	C4	11 DEC 87	
07 APR 87	2256	1592.9	4.6	2	406-86	1	S	C4	11 DEC 87	
22 APR 87	2257	1604.1		1	404-86	1	S	C4	11 DEC 87	
04 MAY 87	0130	1597.5	-5.7	2	360-86	1	P	C4	11 DEC 87	
07 MAY 87	2257	1599.0	-5.3	2	402-86	1	S	C4	11 DEC 87	
15 MAY 87	0055	1600.9	8.3	2	357-86	1	P	C4	11 DEC 87	
15 MAY 87	0055	1614.0	-3.0	2	358-86	1	P	C4	11 DEC 87	

South Pole, Antarctica (SPO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
22 MAY 87	2357	1608.6	.5	2	416-86	1	S	C4	09 DEC 87	
01 JUN 87	0158	1605.9	-1.1	2	372-86	1	P	C4	09 DEC 87	
07 JUN 87	2257	1611.1	-2.7	2	374-86	1	S	C4	09 DEC 87	
15 JUN 87	0050	1613.8	10.2	3	418-86	1	P	C4	09 DEC 87	
17 JUN 87	0059	1607.6	-.5	2	419-86	1	P	C4	09 DEC 87	
22 JUN 87	2259	1608.9	-2.1	2	378-86	1	S	C4	09 DEC 87	
01 JUL 87	0058	1614.9	0.0	2	376-86	1	P	C4	09 DEC 87	
07 JUL 87	2257	1617.5	4.8	2	422-86	1	S	C4	09 DEC 87	
15 JUL 87	0102	1619.4	10.3	3	392-86	1	P	C4	09 DEC 87	
22 JUL 87	2257	1622.6	7.4	2	349-86	1	S	C4	09 DEC 87	
01 AUG 87	0108	1617.5	-1.7	2	390-86	1	P	C4	09 DEC 87	
07 AUG 87	2257	1622.2	.5	2	352-86	1	S	C4	09 DEC 87	
15 AUG 87	0104	1621.0	-.9	2	396-86	1	P	C4	09 DEC 87	
22 AUG 87	2157	1624.0	-2.5	2	356-86	1	S	C4	09 DEC 87	
02 SEP 87	0054	1626.1	-3.3	2	394-86	1	P	C4	09 DEC 87	
08 SEP 87	1158	1624.5	2.9	2	354-86	1	S	C4	09 DEC 87	
15 SEP 87	0051	1622.7		1	339-86	1	P	C4	13 JAN 88	
22 SEP 87	2157	1624.2	-8.0	2	327-86	1	S	C4	13 JAN 88	
07 OCT 87	2357	1627.9	6.8	2	336-86	1	S	C4	13 JAN 88	
15 OCT 87	9999	1629.8	-1.0	2	332-86	1	P	C4	13 JAN 88	
22 OCT 87	2157	1624.1	3.8	3	326-86	1	S	C4	13 JAN 88	
01 NOV 87	0207	1621.4	-.5	2	329-86	1	P	C4	19 JAN 88	
10 NOV 87	0455	1623.0		1	338-86	1	S	C4	19 JAN 88	
01 DEC 87	9999	1616.8	-6.8	2	322-86	1	P	C4	31 DEC 87	
08 DEC 87	1355	1620.4	1.8	2	324-86	1	S	C4	05 JAN 88	
23 DEC 87	1055	1616.0	-4.9	2	334-86	1	S	C4	05 JAN 88	
27 DEC 87	0730	1610.0	5.8	2	524-87	1	P	C4	01 MAR 88	
01 JAN 88	1200	1610.5	6.3	2	526-87	1	P	C4	01 MAR 88	
10 JAN 88	1850	1606.8	-6.2	2	527-87	1	S	C4	01 MAR 88	
22 JAN 88	1159	1604.3	-1.5	2	530-87	1	S	C4	01 MAR 88	
24 JAN 88	1005	1603.2	4.5	2	9000-87	1	N	C4	09 MAR 88	
24 JAN 88	1005	1602.4	4.6	2	9001-87	6	N	C4	09 MAR 88	
27 JAN 88	0130	1601.7	-3.6	2	348-86	1	P	C4	26 FEB 88	
09 FEB 88	0600	1600.0	5.6	2	385-86	1	S	C4	26 FEB 88	
09 FEB 88	2345	1606.4	-5.0	2	346-86	1	P	C4	23 MAR 88	
22 FEB 88	0600	1602.3	5.0	2	387-86	1	S	C4	06 DEC 88	
28 FEB 88	0445	1597.5	4.4	2	342-86	1	P	C4	06 DEC 88	
08 MAR 88	0450	1600.2	.9	2	380-86	1	P	C4	06 DEC 88	
01 APR 88	0200	1609.7	1.9	2	412-87	1	P	C4	07 DEC 88	
15 APR 88	0940	1610.6	-3.1	2	413-87	1	P	C4	06 DEC 88	
25 APR 88	2355	1612.3	-5.8	2	416-87	1	S	C4	07 DEC 88	
02 MAY 88	0315	1607.9	3.5	2	417-87	1	P	C4	06 DEC 88	
02 MAY 88	0315	1612.7		1	418-87	1	P	C4	06 DEC 88	
08 MAY 88	0055	1606.6	4.2	2	419-87	1	S	C4	08 DEC 88	
15 MAY 88	1114	1613.7	-9.1	2	506-87	1	P	C4	06 DEC 88	
22 MAY 88	2259	1617.4	4.0	2	508-87	1	S	C4	06 DEC 88	
01 JUN 88	9999	1613.3	-11.8	3	510-87	1	P	C4	06 DEC 88	
08 JUN 88	0559	1622.4	-.5	2	512-87	1	S	C4	06 DEC 88	
22 JUN 88	2259	1621.7		1	515-87	1	S	C4	08 DEC 88	
22 JUN 88	2259	1628.2		1	516-87	1	S	C4	07 DEC 88	
09 JUL 88	0400	1625.3	8.5	2	489-87	1	S	C4	07 DEC 88	
17 JUL 88	0544	1627.4	4.0	2	493-87	1	P	C4	06 DEC 88	
23 JUL 88	0300	1630.6	3.7	2	495-87	1	S	C4	08 DEC 88	
08 AUG 88	0600	1637.6	5.4	2	499-87	1	S	C4	08 DEC 88	
15 AUG 88	0314	1632.4	-4.4	2	502-87	1	P	C4	07 DEC 88	
26 AUG 88	0900	1636.5	12.3	3	504-87	1	S	C4	06 DEC 88	
06 SEP 88	0847	1635.8	15.1	3	478-87	1	P	C4	07 DEC 88	
12 SEP 88	2200	1639.3	2.0	2	480-87	1	S	C4	06 DEC 88	
16 SEP 88	0834	1634.1		1	482-87	1	P	C4	07 DEC 88	
23 SEP 88	2200	1637.9	12.9	3	484-87	1	S	C4	07 DEC 88	
02 OCT 88	0229	1636.6	6.0	2	486-87	1	P	C4	07 DEC 88	
09 OCT 88	0500	1642.0	.1	2	488-87	1	S	C4	07 DEC 88	
15 OCT 88	0312	1641.0	3.7	2	492-87	1	P	C4	08 DEC 88	
25 OCT 88	2359	1640.9	7.2	2	463-87	1	S	C4	06 FEB 89	
25 OCT 88	2359	1637.5	.2	2	464-87	1	S	C4	06 FEB 89	

South Pole, Antarctica (SPO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
02 NOV 88	0540	1641.9	-1.2	2	467-87	1	P	C4	06 FEB 89	
09 NOV 88	0250	1639.3	5.8	2	470-87	1	S	C4	06 FEB 89	
22 NOV 88	1000	1637.1	-.4	2	472-87	1	S	C4	06 FEB 89	
03 DEC 88	0420	1633.8	9.8	2	476-87	1	P	C4	06 FEB 89	
06 DEC 88	0350	1630.4	8.4	2	602-81	1	P	C4	21 DEC 88	
06 DEC 88	2300	1630.5	-3.4	2	600-81	1	S	C4	21 DEC 88	
07 DEC 88	0300	1631.6	1.1	2	596-81	1	P	C4	06 JAN 89	
08 DEC 88	2200	1627.9	-7.6	2	436-87	1	S	C4	10 APR 89	
09 DEC 88	0258	1628.8	10.3	3	574-81	1	S	C4	06 JAN 89	
12 DEC 88	0000	1635.0	8.0	2	598-81	1	P	C4	06 JAN 89	
13 DEC 88	0350	1626.9	-11.5	2	606-81	1	P	C4	03 JAN 89	
17 DEC 88	9999	1632.9	-13.6	3	440-87	1	P	C4	10 APR 89	
22 DEC 88	0405	1621.6	1.4	2	437-87	1	S	C4	12 APR 89	

Station M (STM)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
08 JAN 86	1320	1730.2	3.4	2	730-82	1	P	C4	14 FEB 86	
15 JAN 86	1320	1756.7	-.8	2	1152-82	1	P	C4	14 FEB 86	
22 JAN 86	0900	1762.4	0.0	2	1376-82	1	P	C4	14 FEB 86	
30 JAN 86	1100	1763.0	-7.0	2	778-83	1	P	C4	21 MAR 86	
05 FEB 86	1500	1734.7	-4.0	2	318-83	1	P	C4	21 MAR 86	
12 FEB 86	1510	1812.2	3.1	2	34-82	1	P	C4	21 MAR 86	+
19 FEB 86	1615	1732.3	-1.5	2	692-83	1	P	C4	21 MAR 86	
26 FEB 86	1320	1729.7	-5.5	2	726-85	1	P	C4	24 APR 86	
05 MAR 86	1320	1761.6	-2.8	2	56-85	1	P	C4	24 APR 86	
19 MAR 86	1315	1741.3	6.1	2	192-85	1	P	C4	24 APR 86	
26 MAR 86	0915	1766.2	4.8	2	834-85	1	P	C4	12 JUN 86	
02 APR 86	0800	1755.2		1	698-83	1	P	C4	12 JUN 86	
09 APR 86	0940	1737.3		1	700-83	1	P	C4	12 JUN 86	
16 APR 86	0920	1746.5	-2.4	2	706-85	1	P	C4	12 JUN 86	
20 APR 86	1330	1752.7	3.0	2	240-85	1	P	C4	28 MAY 86	
30 APR 86	1310	1736.7	-3.9	2	256-85	1	P	C4	28 MAY 86	
07 MAY 86	1310	1745.9	-1.3	2	788-83	1	P	C4	28 MAY 86	
14 MAY 86	0900	1748.1	-1.1	2	1630-82	1	P	C4	28 MAY 86	
21 MAY 86	0930	1735.8	6.5	2	778-83	1	P	C4	10 AUG 86	
28 MAY 86	1530	1730.9	2.3	2	708-83	1	P	C4	04 AUG 86	
04 JUN 86	0945	1736.5	6.2	2	839-85	1	P	C4	04 AUG 86	
08 JUN 86	0955	1726.2	4.9	2	98-85	1	P	C4	10 AUG 86	
18 JUN 86	1310	1712.7	-8.3	2	1186-82	1	P	C4	04 AUG 86	
25 JUN 86	1310	1712.1	-5.6	2	804-82	1	P	C4	04 AUG 86	
02 JUL 86	1305	1713.9	5.9	2	726-83	1	P	C4	04 AUG 86	
09 JUL 86	1320	1702.4	-1.7	2	1704-82	1	P	C4	04 AUG 86	
16 JUL 86	0755	1706.1	-17.4	3	44-85	1	P	C4	23 SEP 86	
23 JUL 86	0800	1723.0	8.8	3	354-83	1	P	C4	23 SEP 86	
03 AUG 86	1500	1707.8	-.4	2	34-82	1	P	C4	23 SEP 86	
06 AUG 86	0815	1746.6	2.6	2	1630-82	1	P	C4	23 SEP 86	
13 AUG 86	1310	1731.2	-7.0	2	314-85	1	P	C4	25 SEP 86	
20 AUG 86	1315	1718.2	-3.5	2	252-85	1	P	C4	25 SEP 86	
27 AUG 86	1310	1720.4	-5.7	2	752-83	1	P	C4	25 SEP 86	
31 AUG 86	1310	1711.8	19.7	2	356-85	1	P	C4	25 SEP 86	
10 SEP 86	0945	1775.0	-11.2	3	892-83	1	P	C4	14 OCT 86	
17 SEP 86	1535	1720.6	-10.8	3	1332-82	1	P	C4	14 OCT 86	
24 SEP 86	0815	1727.5	3.6	2	1662-82	1	P	C4	14 OCT 86	
30 SEP 86	0750	1721.6	-13.6	4	324-85	1	P	C4	14 OCT 86	
22 OCT 86	1310	1730.7	5.4	2	704-85	1	P	C4	29 DEC 86	
05 NOV 86	0815	1733.5	1.8	2	162-83	1	P	C4	23 DEC 86	
12 NOV 86	0815	1743.1	3.1	2	348-83	1	P	C4	29 DEC 86	
19 NOV 86	0805	1733.9	-5.2	2	566-85	1	P	C4	23 DEC 86	
26 NOV 86	0820	1751.4	5.1	2	210-83	1	P	C4	23 DEC 86	
03 DEC 86	1320	1738.0	6.5	3	868-83	1	P	C4	22 JAN 87	
11 DEC 86	1315	1746.7	-3.3	2	716-85	1	P	C4	22 JAN 87	
17 DEC 86	1310	1743.0	6.4	2	931-83	1	P	C4	22 JAN 87	
26 DEC 86	1340	1729.0	-1.5	2	391-85	1	P	C4	22 JAN 87	
01 FEB 87	1315	1746.7	-1.2	2	526-85	1	P	C4	05 MAR 87	
08 FEB 87	1305	1767.0	-3.7	2	184-85	1	P	C4	05 MAR 87	
15 FEB 87	1310	1783.0	5.8	2	52-85	1	P	C4	05 MAR 87	
21 FEB 87	1310	1747.1	-2.5	2	318-83	1	P	C4	05 MAR 87	
01 MAR 87	0820	1798.2	3.2	2	99-85	1	P	C4	22 APR 87	
08 MAR 87	1415	1754.3	4.6	2	1006-82	1	P	C4	22 APR 87	
14 MAR 87	0800	1744.0	5.1	2	388-85	1	P	C4	22 APR 87	
21 MAR 87	0800	1805.0	.9	2	405-85	1	P	C4	22 APR 87	
29 MAR 87	1310	1772.8	4.6	2	780-83	1	P	C4	13 MAY 87	
05 APR 87	1310	1750.8	-6.0	2	1762-82	1	P	C4	15 MAY 87	
12 APR 87	1310	1736.5	.4	2	366-85	1	P	C4	15 MAY 87	
19 APR 87	1310	1743.7	-.3	2	1218-82	1	P	C4	13 MAY 87	
26 APR 87	0940	1735.1	2.5	2	666-83	1	P	C4	09 JUN 87	
03 MAY 87	0755	1753.0	4.3	2	26-85	1	P	C4	09 JUN 87	
10 MAY 87	0800	1744.9	-7.6	2	718-85	1	P	C4	09 JUN 87	
17 MAY 87	1400	1758.9	-.3	2	306-83	1	P	C4	09 JUN 87	
24 MAY 87	1305	1728.1	3.2	2	740-85	1	P	C4	30 JUN 87	

Station M (STM)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
31 MAY 87	1330	1741.9	5.4	2	512-83	1	P	C4	30 JUN 87	
07 JUN 87	1305	1739.5	2.5	2	614-85	1	P	C4	30 JUN 87	
14 JUN 87	1305	1740.8	0.0	2	770-85	1	P	C4	30 JUN 87	
23 JUN 87	0915	1732.5	2.0	2	1220-82	1	P	C4	10 AUG 87	
30 JUN 87	0915	1722.5	-.8	2	412-85	1	P	C4	10 AUG 87	
07 JUL 87	0815	1724.0	-1.9	2	164-83	1	P	C4	10 AUG 87	
14 JUL 87	0815	1725.7	-5.4	2	470-82	1	P	C4	10 AUG 87	
19 JUL 87	1315	1730.5	-4.8	2	656-85	1	P	C4	04 SEP 87	
26 JUL 87	1305	1720.6	-8.3	2	706-85	1	P	C4	04 SEP 87	
02 AUG 87	1310	1723.9	.7	2	36-85	1	P	C4	03 SEP 87	
09 AUG 87	1310	1740.7	-4.8	3	558-85	1	P	C4	03 SEP 87	
15 AUG 87	0810	1731.8	-1.3	2	702-85	1	P	C4	24 SEP 87	
18 AUG 87	0800	1726.5	-1.8	3	266-86	1	P	C4	23 SEP 87	
25 AUG 87	0815	1731.1	.1	2	54-85	1	P	C4	24 SEP 87	
29 AUG 87	0745	1725.4	-7.2	2	46-85	1	P	C4	23 SEP 87	
01 SEP 87	0720	1735.4	6.9	2	744-83	1	P	C4	23 SEP 87	
05 SEP 87	0745	1743.0	1.4	2	50-85	1	P	C4	24 SEP 87	
08 SEP 87	0745	1733.4	-3.7	2	57-85	1	P	C4	23 SEP 87	
11 SEP 87	0905	1755.8	5.8	2	27-85	1	P	C4	26 FEB 88	
14 SEP 87	1305	1750.6	-3.8	2	798-85	1	P	C4	26 FEB 88	
17 SEP 87	0845	1757.9	-10.4	3	48-85	1	P	C4	24 FEB 88	
20 SEP 87	1315	1753.9	1.8	2	832-85	1	P	C4	18 FEB 88	
23 SEP 87	1315	1747.9	2.5	2	848-83	1	P	C4	24 FEB 88	
27 SEP 87	1310	1748.6	-3.6	2	678-85	1	P	C4	19 FEB 88	
30 SEP 87	1305	1737.2	4.3	2	1260-82	1	P	C4	18 FEB 88	
03 OCT 87	0745	1786.2	13.3	3	62-85	1	P	C4	18 FEB 88	
11 OCT 87	0800	1764.5	-3.4	2	252-85	1	P	C4	10 NOV 87	
14 OCT 87	0920	1754.5	-3.7	2	826-85	1	P	C4	10 NOV 87	
17 OCT 87	0925	1843.7	.3	2	1272-82	1	P	C4	10 NOV 87	
20 OCT 87	0755	1798.6	-5.8	2	286-85	1	P	C4	10 NOV 87	
24 OCT 87	0815	1750.2	-4.7	2	306-83	1	P	C4	10 NOV 87	
27 OCT 87	0810	1743.7	-11.4	3	120-84	1	P	C4	10 NOV 87	
31 OCT 87	1515	1753.7	-4.4	2	602-85	1	P	C4	10 NOV 87	
03 NOV 87	0800	1750.9	2.9	2	718-85	1	P	C4	10 NOV 87	
08 NOV 87	1325	1744.9	-1.1	2	556-83	1	P	C4	31 DEC 87	
11 NOV 87	1305	1776.6	2.7	2	124-87	1	P	C4	31 DEC 87	
15 NOV 87	1310	1789.9		1	1680-82	1	P	C4	02 JAN 88	
18 NOV 87	1310	1768.4	-5.0	2	838-83	1	P	C4	02 JAN 88	
22 NOV 87	1310	1741.6	4.0	2	888-83	1	P	C4	02 JAN 88	
25 NOV 87	1310	1751.6	2.1	2	2-85	1	P	C4	02 JAN 88	
28 NOV 87	1310	1752.3	-3.1	2	772-83	1	P	C4	31 DEC 87	
30 NOV 87	1310	1753.4	7.7	2	1080-82	1	P	C4	31 DEC 87	
05 DEC 87	0920	1755.7	-2.7	2	526-83	1	P	C4	06 JAN 88	
08 DEC 87	0915	1753.6	2.8	2	496-83	1	P	C4	06 JAN 88	
12 DEC 87	1002	1760.8	-1.8	2	420-83	1	P	C4	05 JAN 88	
15 DEC 87	0945	1780.0	-4.0	2	6-85	1	P	C4	05 JAN 88	
19 DEC 87	0825	1755.1	-.1	2	266-83	1	P	C4	06 JAN 88	
22 DEC 87	0930	1748.1	-3.0	2	1204-82	1	P	C4	05 JAN 88	
26 DEC 87	0920	1756.5	5.0	2	946-83	1	P	C4	05 JAN 88	
28 DEC 87	1000	1772.4	2.1	2	552-85	1	P	C4	06 JAN 88	
03 JAN 88	1310	1768.8	5.0	2	486-83	1	P	C4	04 FEB 88	
06 JAN 88	1310	1753.1	-1.6	2	494-83	1	P	C4	04 FEB 88	
10 JAN 88	1310	1762.2	6.0	2	118-87	1	P	C4	04 FEB 88	
13 JAN 88	1310	1776.3	6.4	2	553-83	1	P	C4	04 FEB 88	
13 JAN 88	1310	1772.7		1	554-83	1	P	C4	04 FEB 88	
16 JAN 88	1310	1766.3	-.7	2	90-85	1	P	C4	04 FEB 88	
19 JAN 88	1310	1741.3	1.7	2	380-85	1	P	C4	04 FEB 88	
22 JAN 88	1335	1774.9	-2.8	2	4-85	1	P	C4	04 FEB 88	
25 JAN 88	1305	1775.7	4.8	2	696-85	1	P	C4	04 FEB 88	
01 FEB 88	0935	1809.4	-3.8	2	784-85	1	P	C4	01 MAR 88	
05 FEB 88	1415	1810.4	.8	2	180-85	1	P	C4	02 MAR 88	
08 FEB 88	1410	1761.6	6.4	2	540-87	1	P	C4	02 MAR 88	
12 FEB 88	1510	1781.1	-5.0	2	194-85	1	P	C4	02 MAR 88	
15 FEB 88	0810	1778.4	-8.8	2	538-87	1	P	C4	02 MAR 88	
19 FEB 88	1350	1759.6	-4.4	2	24-85	1	P	C4	02 MAR 88	

Station M (STM)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
22 FEB 88	0725	1760.3	-4.9	2	160-85	1	P	C4	02 MAR 88	
25 FEB 88	1310	1784.8	-4.5	2	184-85	1	P	C4	04 MAY 88	
28 FEB 88	1325	1766.4	7.3	2	368-85	1	P	C4	04 MAY 88	
02 MAR 88	1305	1758.6	-.5	2	92-87	1	P	C4	04 MAY 88	
06 MAR 88	1305	1773.7	5.0	2	94-87	1	P	C4	20 JUN 88	
09 MAR 88	1315	1753.8	-6.4	2	12-85	1	P	C4	04 MAY 88	
14 MAR 88	1305	1765.1	.3	2	278-87	1	P	C4	04 MAY 88	
17 MAR 88	1310	1772.0	5.9	2	680-85	1	P	C4	04 MAY 88	
21 MAR 88	1050	1794.7	2.3	2	286-87	1	P	C4	04 MAY 88	
25 MAR 88	0800	1829.4	.4	2	352-86	1	P	C4	27 APR 88	
28 MAR 88	0745	1817.6	5.6	2	322-86	1	P	C4	27 APR 88	
01 APR 88	0750	1801.7	2.4	2	358-85	1	P	C4	29 APR 88	
04 APR 88	0810	1745.5	.3	2	284-87	1	P	C4	29 APR 88	
08 APR 88	0820	1780.5	-2.4	2	110-87	1	P	C4	27 APR 88	
11 APR 88	0840	1775.9	-4.9	2	278-86	1	P	C4	27 APR 88	
15 APR 88	2020	1772.2	4.9	2	396-86	1	P	C4	29 APR 88	
18 APR 88	0750	1773.2	-6.5	2	422-86	1	P	C4	29 APR 88	
22 APR 88	1315	1786.9	8.8	2	360-85	1	P	C4	23 MAY 88	
25 APR 88	1310	1766.4	.5	2	560-87	1	P	C4	23 MAY 88	
28 APR 88	0915	1757.5	-4.3	2	222-86	1	P	C4	23 MAY 88	
19 MAY 88	0945	1757.8	.8	2	23-85	1	P	C4	22 JUN 88	
23 MAY 88	1515	1741.2	9.9	2	372-86	1	P	C4	22 JUN 88	
27 MAY 88	1420	1758.0	4.9	2	62-85	1	P	C4	22 JUN 88	
31 MAY 88	2100	1758.4	-.7	2	410-85	1	P	C4	22 JUN 88	
03 JUN 88	1515	1748.2	.3	2	6-85	1	P	C4	22 JUN 88	
06 JUN 88	0800	1738.1	-2.3	2	160-85	1	P	C4	22 JUN 88	
10 JUN 88	1525	1741.5	6.1	2	535-87	1	P	C4	22 JUN 88	
13 JUN 88	0935	1741.8	-4.0	2	552-85	1	P	C4	22 JUN 88	
18 JUN 88	0845	1738.4	6.7	2	112-87	1	P	C4	09 AUG 88	
23 JUN 88	0810	1742.3	1.0	2	354-85	1	P	C4	09 AUG 88	
26 JUN 88	1415	1721.9	-4.4	2	252-85	1	P	C4	09 AUG 88	
29 JUN 88	0820	1730.4	4.0	2	384-85	1	P	C4	09 AUG 88	
03 JUL 88	0910	1733.4	1.7	2	270-85	1	P	C4	10 AUG 88	
06 JUL 88	0840	1739.9	4.7	2	140-85	1	P	C4	10 AUG 88	
09 JUL 88	0840	1765.9	-4.7	2	248-86	1	P	C4	09 AUG 88	
12 JUL 88	1250	1750.3	-1.6	2	110-87	1	P	C4	09 AUG 88	
15 JUL 88	0755	1732.1	5.2	2	400-86	1	P	C4	17 AUG 88	
18 JUL 88	0815	1748.5	5.0	2	792-85	1	P	C4	17 AUG 88	
23 JUL 88	0715	1737.1	-8.1	2	254-87	1	P	C4	17 AUG 88	
26 JUL 88	0815	1741.8	-3.7	2	300-86	1	P	C4	17 AUG 88	
29 JUL 88	0815	1728.6	-6.5	2	653-85	1	P	C4	17 AUG 88	
29 JUL 88	0815	1729.7		1	654-85	1	P	C4	17 AUG 88	
01 AUG 88	0820	1743.2	3.6	2	234-86	1	P	C4	17 AUG 88	
05 AUG 88	0810	1734.4	-2.3	2	332-86	1	P	C4	18 AUG 88	
08 AUG 88	0810	1726.9	14.7	3	100-87	1	P	C4	18 AUG 88	
12 AUG 88	0900	1740.6	4.0	2	30-85	1	P	C4	29 SEP 88	
15 AUG 88	1255	1758.2	5.8	2	96-87	1	P	C4	29 SEP 88	
19 AUG 88	1305	1740.3	2.9	2	280-85	1	P	C4	29 SEP 88	
22 AUG 88	1310	1731.0	-6.0	2	546-87	1	P	C4	29 SEP 88	
25 AUG 88	0835	1754.0	2.7	2	256-85	1	P	C4	29 SEP 88	
28 AUG 88	1300	1755.4	-8.2	2	314-85	1	P	C4	29 SEP 88	
31 AUG 88	1300	1744.6	.2	2	244-86	1	P	C4	29 SEP 88	
03 SEP 88	1300	1814.2	-8.1	2	356-86	1	P	C4	29 SEP 88	
13 SEP 88	0714	1752.8	-4.5	2	542-87	1	P	C4	14 OCT 88	
16 SEP 88	0810	1745.5	1.1	2	212-85	1	P	C4	12 OCT 88	
20 SEP 88	0810	1744.0	7.0	2	338-86	1	P	C4	12 OCT 88	
23 SEP 88	1330	1755.4	-5.5	2	216-86	1	P	C4	12 OCT 88	
26 SEP 88	0940	1752.5	-5.8	2	246-86	1	P	C4	12 OCT 88	
30 SEP 88	0930	1766.3	-8.0	2	598-85	1	P	C4	12 OCT 88	
03 OCT 88	0800	1756.9	6.6	2	570-87	1	P	C4	12 OCT 88	
09 OCT 88	1305	1776.4	-5.0	2	46-85	1	P	C4	08 NOV 88	
14 OCT 88	1300	1799.2		1	227-85	1	P	C4	09 NOV 88	
14 OCT 88	1300	1797.0		1	228-85	1	P	C4	08 NOV 88	
19 OCT 88	1400	1768.8	-1.0	2	247-86	1	P	C4	09 NOV 88	
23 OCT 88	1300	1770.6	3.8	2	314-86	1	P	C4	08 NOV 88	

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
27 OCT 88	1300	1770.6	7.1	2	222-86	1	P	C4	08 NOV 88	
31 OCT 88	0730	1762.5	-2.2	2	254-86	1	P	C4	09 NOV 88	
04 NOV 88	0820	1792.9	-4.5	2	128-81	1	P	C4	05 DEC 88	
07 NOV 88	0945	1766.8	11.8	3	126-81	1	P	C4	05 DEC 88	
11 NOV 88	1505	1762.1	8.5	2	140-81	1	P	C4	05 DEC 88	
14 NOV 88	0815	1766.1	-2.2	2	138-81	1	P	C4	05 DEC 88	
18 NOV 88	1505	1794.8	.3	2	136-81	1	P	C4	05 DEC 88	
21 NOV 88	0930	1753.1	-.5	2	134-81	1	P	C4	05 DEC 88	
25 NOV 88	0900	1769.3	-3.5	2	132-81	1	P	C4	05 DEC 88	
28 NOV 88	0820	1768.4	-4.7	2	130-81	1	P	C4	05 DEC 88	
02 DEC 88	0720	1766.2	15.9	3	570-81	1	P	C4	09 JAN 89	
05 DEC 88	0740	1789.3	-4.6	2	572-81	1	P	C4	09 JAN 89	
08 DEC 88	1305	1766.3	-5.6	2	47-81	1	P	C4	05 JAN 89	
11 DEC 88	1310	1783.6	-1.3	2	584-81	1	P	C4	05 JAN 89	
14 DEC 88	0740	1765.8	1.1	2	562-81	1	P	C4	05 JAN 89	
18 DEC 88	1300	1767.7	5.1	2	564-81	1	P	C4	05 JAN 89	
22 DEC 88	0735	1762.2	8.4	2	566-81	1	P	C4	05 JAN 89	
26 DEC 88	0650	1781.7	-2.0	2	568-81	1	P	C4	05 JAN 89	
30 DEC 88	0940	1751.5	2.4	2	504-81	1	P	C4	02 FEB 89	

Syowa, Antarctica (SYO)

Sample Date (GMT)	Sample Time (GMT)	Mean CH4 Conc (ppb)	1st-2nd Aliquot (ppb)	# of Aliquots	Flask I.D.	Flask Type	Collection Method	Analysis G.C.	Analysis Date	Flag
17 APR 86	0600	1580.7	-.5	2	248-83	1	P	C4	15 MAY 87	
15 MAY 86	0900	1593.2	-1.4	2	896-83	1	P	C4	15 MAY 87	
17 JUN 86	1000	1602.6	.6	2	164-83	1	P	C4	15 MAY 87	
15 JUL 86	1200	1610.5	-3.9	2	1260-82	1	P	C4	15 MAY 87	
17 AUG 86	0900	1618.8	-3.9	2	156-82	1	P	C4	15 MAY 87	
19 SEP 86	0900	1618.8	-2.8	2	906-82	1	P	C4	15 MAY 87	
15 OCT 86	0900	1617.0	-2.7	2	316-83	1	P	C4	15 MAY 87	
19 NOV 86	0600	1611.6	-3.9	2	932-82	1	P	C4	15 MAY 87	
15 DEC 86	1200	1604.5	-3.9	2	90-83	1	P	C4	15 MAY 87	
15 FEB 88	1920	1606.7	-3.1	2	76-85	1	P	C4	05 JUN 89	
29 FEB 88	1325	1605.9	5.1	2	810-85	1	P	C4	05 JUN 89	
19 APR 88	1045	1606.9	.2	2	110-85	1	P	C4	05 JUN 89	
30 APR 88	1230	1611.7		1	640-85	1	P	C4	05 JUN 89	
15 MAY 88	1030	1618.3	1.6	2	186-82	1	P	C4	05 JUN 89	
29 JUN 88	0830	1625.5	2.9	2	228-86	1	P	C4	05 JUN 89	
02 SEP 88	1450	1635.3	1.5	2	830-85	1	P	C4	05 JUN 89	
15 SEP 88	0800	1638.3	-2.3	2	328-85	1	P	C4	05 JUN 89	
15 OCT 88	1815	1635.8	1.2	2	10-85	1	P	C4	05 JUN 89	
29 OCT 88	1015	1637.3	-2.2	2	1218-82	1	P	C4	05 JUN 89	
14 NOV 88	1300	1636.4	9.7	2	352-85	1	P	C4	31 MAY 89	
29 NOV 88	1400	1632.8	.2	2	11-83	1	P	C4	01 JUN 89	
30 DEC 88	0730	1627.9	0.0	2	448-85	1	P	C4	05 JUN 89	

Appendix B
Tabulation of Monthly Average Methane Concentrations

The format of the tabulations in this appendix is the same as that used for Appendix B in *Lang et al.* (1990). For the convenience of the reader we repeat the explanations of the entries in the tabulations.

In this appendix, tabulations of monthly average methane concentrations for all of the network sites are provided. The sites are ordered alphabetically by the 3-letter site code (see Table 1). The monthly averages are calculated as the arithmetic means of the individual, background, flask concentrations given in Appendix A.

When a flask sample was analyzed more than once, concentrations of all analyzed aliquots for that particular flask sample are averaged together to obtain a mean methane concentration. This mean value then represents an individual flask concentration. When both members of a flask pair were analyzed, all of the accepted aliquot concentrations from both flasks are averaged to obtain a mean methane concentration. If this flask pair sample is classified as background, then this single value is used in the calculation of the monthly mean. If two pairs of flasks were sampled simultaneously (i.e. with two separate portable sampling units), the aliquots of all analyzed flasks are averaged and treated as a single sample in the calculation of the monthly average concentration. On rare occasions we have sampled with the flask pair made up of two different flask types. We refer to this as sampling with "mixed pairs". Both members from a "mixed pair" were usually analyzed. All accepted aliquots from both flasks of such a mixed pair are averaged together to obtain a single mean sample methane concentration for use in the calculation of the monthly average.

The number of flask samples used to calculate each monthly average and the sample standard deviation of the monthly average concentration are also included in the tables. If only one background flask sample was taken at a site in any month, then the concentration of such a flask sample was taken as the monthly average, and no entry was made for the standard deviation. For those months when no background flask samples were successfully collected at a particular site, the entry for the monthly average is left blank. Because these monthly values are based on only a few grab samples collected during the month, the standard deviation term that we include should not be interpreted as the uncertainty of the true monthly average concentration that would be obtained by a continuous measurement of methane during the entire month. The monthly average concentrations are given to the nearest 0.1 ppb, again to retain enough significant digits for any further processing of the data.

METHANE FLASK MONTHLY MEANS FOR ALT

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1758.6	13.5	4
1986	FEB	1747.0	13.3	3
1986	MAR	1769.9	19.9	4
1986	APR	1752.6	8.0	18
1986	MAY	1743.9	10.4	4
1986	JUN	1719.7	14.1	4
1986	JUL	1717.4	6.0	3
1986	AUG	1718.5	20.7	4
1986	SEP	1722.3	9.3	2
1986	OCT	1766.3	23.3	2
1986	NOV	1752.3	11.4	4
1986	DEC	1737.5	4.3	5
1987	JAN	1754.5	12.5	4
1987	FEB	1757.4	2.0	4
1987	MAR	1761.3	11.5	5
1987	APR	1748.8	3.8	4
1987	MAY	1751.8	9.2	4
1987	JUN	1733.8	9.0	5
1987	JUL	1731.2	5.7	4
1987	AUG	1734.2	8.4	5
1987	SEP	1751.8	9.0	4
1987	OCT	1766.8	5.4	4
1987	NOV	1769.1	9.8	5
1987	DEC	1767.3	15.8	4
1988	JAN	1776.1	37.0	4
1988	FEB	1776.3	17.4	5
1988	MAR	1777.6	21.2	3
1988	APR	1779.1	12.8	4
1988	MAY	1761.8	7.0	5
1988	JUN	1749.4	10.4	4
1988	JUL	1732.5	11.6	4
1988	AUG	1733.7	9.9	5
1988	SEP	1760.2	7.7	4
1988	OCT	1780.6	4.3	4
1988	NOV	1783.4	15.2	4
1988	DEC	1788.6	19.8	3

METHANE FLASK MONTHLY MEANS FOR AMS

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1588.8		1
1986	FEB	1581.9		1
1986	MAR	1590.6		1
1986	APR	1593.1	2.0	2
1986	MAY	1597.7	7.2	4
1986	JUN	1604.9	1.7	3
1986	JUL	1608.7	1.6	4
1986	AUG	1615.2	3.5	3
1986	SEP	1614.8	3.5	3
1986	OCT	1612.6	1.4	3
1986	NOV	1608.8		1
1986	DEC	1602.4		1
1987	JAN	1595.8	2.9	3
1987	FEB	1592.0	3.9	3
1987	MAR			
1987	APR			
1987	MAY			
1987	JUN			
1987	JUL	1622.4	4.5	4
1987	AUG			
1987	SEP			
1987	OCT			
1987	NOV	1629.7		1
1987	DEC	1621.2	1.3	2
1988	JAN	1598.5		1
1988	FEB	1602.2		1
1988	MAR	1603.6	3.1	3
1988	APR	1613.7		1
1988	MAY			
1988	JUN			
1988	JUL	1626.1	4.2	2
1988	AUG	1633.2	1.8	5
1988	SEP	1636.1	2.0	8
1988	OCT	1637.5	3.4	3
1988	NOV			
1988	DEC	1621.4		1

METHANE FLASK MONTHLY MEANS FOR ASC

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1597.5	4.8	3
1986	FEB	1595.6	6.5	3
1986	MAR	1599.4	5.2	4
1986	APR	1613.0	9.3	4
1986	MAY	1616.4	3.6	3
1986	JUN	1620.8	8.2	4
1986	JUL	1619.3	5.0	4
1986	AUG	1621.0	6.3	4
1986	SEP	1620.0	5.2	3
1986	OCT	1627.4	6.8	5
1986	NOV	1629.7	9.7	4
1986	DEC	1621.4	14.4	4
1987	JAN	1611.7	3.5	5
1987	FEB	1612.1	12.5	4
1987	MAR	1615.5	4.5	4
1987	APR	1624.8	6.2	5
1987	MAY	1635.8	6.7	4
1987	JUN	1635.9	3.6	4
1987	JUL	1635.2	8.9	5
1987	AUG	1636.8	6.1	3
1987	SEP	1636.1	4.5	2
1987	OCT	1633.0	5.4	5
1987	NOV	1630.3	5.5	4
1987	DEC	1625.3	9.2	5
1988	JAN	1611.6	2.3	4
1988	FEB	1614.6	2.1	4
1988	MAR	1629.1	5.7	5
1988	APR	1620.9	6.9	3
1988	MAY	1639.0	5.2	4
1988	JUN	1637.4	9.3	5
1988	JUL	1643.1	2.2	4
1988	AUG	1646.0	8.4	2
1988	SEP	1646.1	5.8	5
1988	OCT	1652.4	3.0	4
1988	NOV	1638.6	5.4	3
1988	DEC	1641.3	6.3	5

METHANE FLASK MONTHLY MEANS FOR AVI

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1681.1	5.1	4
1986	FEB	1686.0	15.8	3
1986	MAR	1687.1	12.5	3
1986	APR	1670.7	11.7	3
1986	MAY	1663.6	7.6	5
1986	JUN	1665.6	5.6	5
1986	JUL	1664.5	8.5	4
1986	AUG	1660.6	7.3	5
1986	SEP	1657.9	3.5	3
1986	OCT	1671.0	8.0	5
1986	NOV	1690.1	14.6	4
1986	DEC	1689.2	6.8	4
1987	JAN	1693.2	25.6	4
1987	FEB	1687.9	17.8	4
1987	MAR	1699.6	26.4	4
1987	APR	1678.4	7.8	4
1987	MAY	1677.8	8.5	5
1987	JUN	1682.1	8.1	3
1987	JUL	1677.3	13.4	5
1987	AUG	1676.1	9.0	3
1987	SEP	1677.1	5.3	4
1987	OCT	1682.4	4.5	3
1987	NOV	1699.4	20.1	3
1987	DEC	1702.7	14.8	4
1988	JAN	1704.7	12.5	4
1988	FEB	1706.9	14.1	5
1988	MAR	1712.0	14.5	4
1988	APR	1693.1	11.8	4
1988	MAY	1692.1	5.0	4
1988	JUN	1684.8	1.5	3
1988	JUL	1680.9	0.0	2
1988	AUG	1689.5	7.8	5
1988	SEP	1680.1	8.2	4
1988	OCT	1690.8	3.4	3
1988	NOV	1710.9	21.3	3
1988	DEC	1717.6	4.8	5

METHANE FLASK MONTHLY MEANS FOR AZR

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1723.6	9.2	2
1986	FEB			
1986	MAR	1694.3		1
1986	APR			
1986	MAY	1705.2		1
1986	JUN	1705.8		1
1986	JUL			
1986	AUG	1708.2	2.4	3
1986	SEP			
1986	OCT			
1986	NOV			
1986	DEC	1726.1		1
1987	JAN	1742.0	19.4	3
1987	FEB	1726.1	3.7	4
1987	MAR	1728.1		1
1987	APR	1733.9	5.5	2
1987	MAY			
1987	JUN	1703.9	25.0	2
1987	JUL	1716.3	13.8	3
1987	AUG	1693.2	22.5	3
1987	SEP	1733.1		1
1987	OCT	1741.0	14.8	2
1987	NOV	1741.3	2.6	2
1987	DEC	1747.5	7.6	3
1988	JAN	1738.3	10.0	2
1988	FEB	1728.2	6.4	2
1988	MAR	1733.5	3.3	2
1988	APR	1755.3	3.4	2
1988	MAY	1737.5	1.2	2
1988	JUN			
1988	JUL	1703.6	5.8	2
1988	AUG	1702.1		1
1988	SEP	1729.4	26.4	3
1988	OCT	1750.5		1
1988	NOV			
1988	DEC			

METHANE FLASK MONTHLY MEANS FOR BRW

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1742.5	6.2	2
1986	FEB	1768.7	10.9	3
1986	MAR	1787.1	8.5	3
1986	APR	1760.3	10.0	4
1986	MAY	1736.4	10.1	2
1986	JUN	1730.3	8.0	4
1986	JUL	1727.0	13.1	3
1986	AUG	1723.4	15.6	3
1986	SEP	1749.1	36.8	3
1986	OCT	1804.3	29.1	3
1986	NOV	1769.8	20.3	4
1986	DEC	1760.2	5.5	3
1987	JAN	1761.6	19.4	3
1987	FEB	1779.8	7.7	2
1987	MAR	1775.4	23.2	4
1987	APR	1764.9	3.9	3
1987	MAY	1753.3	9.2	5
1987	JUN	1733.2	1.1	3
1987	JUL	1733.6	21.9	2
1987	AUG	1744.3	8.4	3
1987	SEP	1763.8	11.0	3
1987	OCT	1758.4	3.0	3
1987	NOV	1767.8	9.0	4
1987	DEC	1772.2	13.5	3
1988	JAN	1788.1	30.3	4
1988	FEB	1811.3	35.6	3
1988	MAR	1791.2	9.8	6
1988	APR	1773.2	1.9	2
1988	MAY	1760.6	8.4	4
1988	JUN	1741.7	1.2	2
1988	JUL	1741.5	10.1	6
1988	AUG	1741.4	2.2	3
1988	SEP	1767.8	3.2	2
1988	OCT	1774.4	4.6	6
1988	NOV	1787.4	10.2	4
1988	DEC	1804.8	16.5	6

METHANE FLASK MONTHLY MEANS FOR CBA

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1750.6	24.1	3
1986	FEB	1734.7	6.2	4
1986	MAR	1738.7	9.1	4
1986	APR	1743.6	6.5	4
1986	MAY	1741.1	8.9	3
1986	JUN	1728.7	6.7	5
1986	JUL	1701.1	5.3	2
1986	AUG	1721.5	11.4	5
1986	SEP	1756.3	13.7	4
1986	OCT	1756.6	19.2	3
1986	NOV	1729.2	11.5	3
1986	DEC	1748.6	7.7	3
1987	JAN	1745.9	5.5	4
1987	FEB	1739.4	9.4	4
1987	MAR	1748.9	18.8	3
1987	APR	1753.5	8.1	4
1987	MAY	1746.0	3.6	4
1987	JUN	1736.6	8.1	4
1987	JUL	1731.6	5.5	2
1987	AUG	1724.6	18.7	4
1987	SEP	1757.4	2.2	2
1987	OCT	1765.1	5.2	4
1987	NOV	1754.4	1.0	3
1987	DEC	1759.1	7.1	3
1988	JAN	1760.7	17.7	4
1988	FEB	1761.7	13.7	3
1988	MAR	1764.8	6.3	2
1988	APR	1763.3	12.2	4
1988	MAY	1759.6	5.3	5
1988	JUN	1745.9	5.3	3
1988	JUL	1742.3	11.5	4
1988	AUG	1751.6	16.9	3
1988	SEP	1748.4	8.7	3
1988	OCT	1762.4	13.2	3
1988	NOV	1771.9	8.9	3
1988	DEC	1766.1	11.9	7

METHANE FLASK MONTHLY MEANS FOR CGO

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1586.4	2.4	3
1986	FEB	1582.2	3.4	8
1986	MAR	1581.4	4.4	6
1986	APR	1585.4	2.3	7
1986	MAY	1599.6	4.5	3
1986	JUN	1599.7	4.8	8
1986	JUL	1609.9	5.4	8
1986	AUG	1613.5	1.6	4
1986	SEP	1613.7	5.2	2
1986	OCT	1616.3	4.7	4
1986	NOV	1612.4	2.5	5
1986	DEC	1606.1	2.4	6
1987	JAN	1595.7	2.0	5
1987	FEB	1592.2	3.1	8
1987	MAR	1597.0	2.4	6
1987	APR	1599.6		1
1987	MAY	1612.9	2.7	4
1987	JUN	1613.7	4.3	7
1987	JUL	1620.2	1.8	6
1987	AUG	1623.2	3.0	5
1987	SEP	1627.1	.6	3
1987	OCT	1627.5	2.4	6
1987	NOV	1622.3	3.1	5
1987	DEC	1617.0	.5	2
1988	JAN	1609.7		1
1988	FEB	1602.5	4.3	6
1988	MAR	1601.5	5.5	2
1988	APR	1605.4	5.7	3
1988	MAY	1617.2	3.8	4
1988	JUN	1621.9	4.5	4
1988	JUL	1631.2	4.9	7
1988	AUG	1637.2	1.9	5
1988	SEP	1636.7	3.7	5
1988	OCT	1637.1	3.0	9
1988	NOV	1633.3	1.7	6
1988	DEC	1626.8	5.8	5

METHANE FLASK MONTHLY MEANS FOR CHR

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1630.3	5.0	2
1986	FEB	1629.3		1
1986	MAR	1641.6	17.0	3
1986	APR	1650.5	8.8	2
1986	MAY	1620.8	10.0	4
1986	JUN	1625.3	4.0	4
1986	JUL	1618.6	5.5	4
1986	AUG	1623.1	.8	3
1986	SEP	1622.7	8.2	4
1986	OCT	1614.5	7.3	4
1986	NOV	1623.0	4.8	3
1986	DEC	1630.3	6.1	4
1987	JAN	1641.2	25.1	3
1987	FEB	1632.5	15.5	4
1987	MAR	1652.2	17.3	5
1987	APR	1657.0	23.8	3
1987	MAY	1652.0	.1	2
1987	JUN	1635.3	5.8	3
1987	JUL	1637.9	8.8	3
1987	AUG	1631.7	5.1	4
1987	SEP	1628.4	1.3	3
1987	OCT	1636.0	.5	2
1987	NOV	1647.3	8.4	4
1987	DEC	1635.3	6.6	3
1988	JAN	1656.1	15.0	4
1988	FEB	1663.2	19.5	5
1988	MAR	1657.8	16.0	4
1988	APR	1640.9		1
1988	MAY	1635.2	12.4	3
1988	JUN	1636.7	4.9	4
1988	JUL	1641.0	9.8	4
1988	AUG	1644.8	4.1	2
1988	SEP	1644.8	7.5	4
1988	OCT	1646.0	4.8	5
1988	NOV	1651.1	5.9	3
1988	DEC	1657.4	3.8	4

METHANE FLASK MONTHLY MEANS FOR CMO					METHANE FLASK MONTHLY MEANS FOR GMI					METHANE FLASK MONTHLY MEANS FOR HBA				
YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks	YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks	YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1717.8	8.9	5	1986	JAN	1667.9	6.5	4	1986	JAN	1580.5	4.6	2
1986	FEB	1712.0	19.3	3	1986	FEB	1674.9	58.3	2	1986	FEB	1569.0	5.7	2
1986	MAR	1713.9	20.9	4	1986	MAR	1687.3	7.1	3	1986	MAR	1576.1	5.0	2
1986	APR	1736.3	7.1	4	1986	APR	1680.2	12.7	5	1986	APR	1580.5	.1	2
1986	MAY	1722.5	8.9	5	1986	MAY	1634.2		1	1986	MAY	1584.0	3.0	2
1986	JUN	1715.8	8.7	4	1986	JUN	1662.7	1.4	2	1986	JUN	1592.3	3.2	2
1986	JUL	1693.5	10.4	3	1986	JUL	1660.9		1	1986	JUL	1609.5	1.0	2
1986	AUG	1689.8	27.8	3	1986	AUG				1986	AUG	1611.0	0.0	2
1986	SEP	1697.7	37.6	2	1986	SEP	1644.2		1	1986	SEP	1612.8	1.6	2
1986	OCT	1744.9	17.3	4	1986	OCT	1668.9		1	1986	OCT	1614.6	2.4	2
1986	NOV	1730.4	4.4	3	1986	NOV	1687.9	9.8	3	1986	NOV	1610.2		1
1986	DEC	1735.1	4.7	4	1986	DEC	1684.5	20.8	2	1986	DEC	1606.4	4.5	2
1987	JAN	1737.1	13.6	2	1987	JAN	1683.9	19.0	2	1987	JAN	1590.2	1.8	3
1987	FEB	1731.4	11.0	4	1987	FEB	1683.3	13.9	3	1987	FEB	1584.2		1
1987	MAR	1740.2	3.2	3	1987	MAR	1689.2	16.9	3	1987	MAR			
1987	APR	1739.9	12.1	4	1987	APR	1687.9	10.5	4	1987	APR	1595.9	1.2	2
1987	MAY	1731.3	10.6	4	1987	MAY	1696.8	6.6	3	1987	MAY	1602.8		1
1987	JUN	1743.4	18.2	3	1987	JUN	1660.6	.3	2	1987	JUN	1612.5		1
1987	JUL	1708.6	11.3	5	1987	JUL	1653.2	10.1	4	1987	JUL	1621.3	1.7	2
1987	AUG	1706.2	19.1	4	1987	AUG	1661.5	11.3	4	1987	AUG	1620.8		1
1987	SEP	1722.6	26.7	5	1987	SEP	1664.0	36.1	3	1987	SEP			
1987	OCT	1753.0	10.9	4	1987	OCT	1689.1	16.2	5	1987	OCT			
1987	NOV	1743.9	9.1	4	1987	NOV	1679.5	23.7	4	1987	NOV			
1987	DEC	1752.0	8.7	4	1987	DEC	1707.0	8.8	4	1987	DEC			
1988	JAN	1760.6	9.8	3	1988	JAN	1694.5	10.4	4	1988	JAN	1609.4	1.4	2
1988	FEB	1753.8	10.9	4	1988	FEB	1709.2	23.1	3	1988	FEB			
1988	MAR	1760.1	17.7	4	1988	MAR	1687.1	17.2	4	1988	MAR	1606.1		1
1988	APR	1755.1	11.6	4	1988	APR	1686.2	9.4	4	1988	APR			
1988	MAY	1745.1	12.4	5	1988	MAY	1685.2	2.8	3	1988	MAY			
1988	JUN	1734.9	14.0	4	1988	JUN	1662.0	5.9	4	1988	JUN			
1988	JUL	1737.6	15.1	3	1988	JUL	1657.1	7.4	3	1988	JUL			
1988	AUG	1724.2	10.1	4	1988	AUG	1657.0	8.1	4	1988	AUG			
1988	SEP	1747.1	8.2	4	1988	SEP	1657.7	10.8	3	1988	SEP			
1988	OCT	1751.1	16.5	4	1988	OCT	1667.7	16.6	4	1988	OCT			
1988	NOV	1746.3	7.3	3	1988	NOV	1700.2	14.8	4	1988	NOV			
1988	DEC	1751.3	2.6	4	1988	DEC	1704.0	6.9	3	1988	DEC			

METHANE FLASK MONTHLY MEANS FOR KEY

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1720.9		1
1986	FEB	1695.0	31.4	2
1986	MAR	1709.4	11.1	2
1986	APR	1731.4	6.2	2
1986	MAY	1698.6	22.0	5
1986	JUN	1660.4	6.0	4
1986	JUL	1659.8	4.0	3
1986	AUG	1657.4	1.5	3
1986	SEP	1674.5	23.6	4
1986	OCT	1703.3	19.3	3
1986	NOV	1685.8	16.2	3
1986	DEC	1719.4	12.2	3
1987	JAN	1701.0	24.2	2
1987	FEB	1722.3	4.2	2
1987	MAR	1720.9	11.3	3
1987	APR	1720.1	10.3	2
1987	MAY	1693.0	4.7	2
1987	JUN	1668.2	2.0	2
1987	JUL	1671.7	9.3	3
1987	AUG	1686.4		1
1987	SEP	1695.7		1
1987	OCT	1745.5		1
1987	NOV	1714.1	.5	2
1987	DEC	1718.9	13.6	3
1988	JAN	1739.4	6.2	2
1988	FEB	1700.6		1
1988	MAR	1719.0		1
1988	APR	1716.8		1
1988	MAY	1729.8	18.0	2
1988	JUN	1705.0	1.2	2
1988	JUL	1693.8		1
1988	AUG	1683.0		1
1988	SEP	1685.6		1
1988	OCT	1757.7		1
1988	NOV	1732.3	23.4	2
1988	DEC	1756.1	2.0	2

METHANE FLASK MONTHLY MEANS FOR KUM

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1681.5	21.2	2
1986	FEB	1666.8	28.1	3
1986	MAR	1675.2	20.8	5
1986	APR	1690.2	8.7	3
1986	MAY	1665.3	7.1	3
1986	JUN	1682.8	16.6	3
1986	JUL	1658.3	17.0	5
1986	AUG	1664.2	16.9	3
1986	SEP	1682.2	31.9	4
1986	OCT	1680.9	9.5	3
1986	NOV	1696.6	12.6	3
1986	DEC	1701.8	10.6	5
1987	JAN	1716.3	10.3	4
1987	FEB	1688.4	16.5	4
1987	MAR	1700.1	9.4	5
1987	APR	1690.3	10.5	3
1987	MAY	1692.9	11.1	10
1987	JUN	1698.7	8.1	3
1987	JUL	1679.2	9.7	3
1987	AUG	1658.4	15.7	8
1987	SEP	1680.3	21.1	8
1987	OCT	1696.7	8.0	8
1987	NOV	1707.6	11.3	8
1987	DEC	1715.3	13.5	7
1988	JAN	1699.9	18.6	8
1988	FEB	1697.9	19.3	9
1988	MAR	1708.0	2.6	6
1988	APR	1716.0	13.9	8
1988	MAY	1704.5	7.4	9
1988	JUN	1687.6	13.4	8
1988	JUL	1678.3	16.4	6
1988	AUG	1680.4	12.2	8
1988	SEP	1686.6	17.7	6
1988	OCT	1696.4	12.9	9
1988	NOV	1715.2	8.7	7
1988	DEC	1702.7	27.7	4

METHANE FLASK MONTHLY MEANS FOR MBC

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1757.0		1
1986	FEB	1755.6	6.9	2
1986	MAR	1764.4	.3	2
1986	APR	1753.4	8.3	4
1986	MAY	1738.7	2.7	4
1986	JUN	1723.1	5.2	5
1986	JUL	1717.6	4.2	5
1986	AUG	1716.2	1.7	3
1986	SEP	1730.5	12.7	5
1986	OCT	1769.0	3.6	4
1986	NOV	1760.0	13.5	3
1986	DEC	1761.6	27.1	2
1987	JAN	1787.4	5.3	2
1987	FEB	1764.7	11.8	4
1987	MAR	1774.9	13.1	5
1987	APR	1769.2	16.6	4
1987	MAY	1756.9	11.0	4
1987	JUN	1732.7	12.4	5
1987	JUL	1735.9	1.7	2
1987	AUG	1735.3	6.7	5
1987	SEP	1750.7	12.5	4
1987	OCT	1768.0	5.2	5
1987	NOV	1769.9	8.0	5
1987	DEC	1782.3	14.4	5
1988	JAN	1793.4	42.3	2
1988	FEB	1785.2	13.0	5
1988	MAR	1788.1	16.5	4
1988	APR	1781.4	16.5	4
1988	MAY	1763.7	18.4	5
1988	JUN	1743.6	2.7	4
1988	JUL	1730.9	9.9	4
1988	AUG	1738.6	8.2	3
1988	SEP	1751.6	12.6	5
1988	OCT	1774.8	5.5	4
1988	NOV	1780.3	10.2	4
1988	DEC	1798.9	17.5	2

METHANE FLASK MONTHLY MEANS FOR MCM

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1585.1	6.6	3
1986	FEB	1572.4		1
1986	MAR	1578.8	1.7	2
1986	APR	1583.3	1.6	2
1986	MAY	1587.6		1
1986	JUN	1592.3	1.0	2
1986	JUL	1605.9	1.7	2
1986	AUG	1603.5		1
1986	SEP	1615.5	4.4	2
1986	OCT	1613.6	.4	2
1986	NOV	1610.8	4.4	3
1986	DEC	1603.2		1
1987	JAN	1599.8	3.6	2
1987	FEB	1591.1	.9	2
1987	MAR	1590.8		1
1987	APR	1595.4		1
1987	MAY	1605.1		1
1987	JUN	1618.0		1
1987	JUL	1619.1		1
1987	AUG			
1987	SEP			
1987	OCT	1624.5	2.9	4
1987	NOV			
1987	DEC			
1988	JAN			
1988	FEB			
1988	MAR			
1988	APR			
1988	MAY			
1988	JUN			
1988	JUL			
1988	AUG			
1988	SEP			
1988	OCT			
1988	NOV			
1988	DEC			

METHANE FLASK MONTHLY MEANS FOR MID

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1702.8	16.6	8
1986	FEB	1714.2	15.8	8
1986	MAR	1712.5	17.3	7
1986	APR	1685.9	18.8	5
1986	MAY	1714.9	9.8	4
1986	JUN	1688.0	16.1	4
1986	JUL	1676.2	14.4	4
1986	AUG	1673.3	24.8	4
1986	SEP	1694.9	29.3	4
1986	OCT	1710.6	12.0	5
1986	NOV	1718.0	15.5	4
1986	DEC	1725.9	15.8	5
1987	JAN	1724.6	7.2	4
1987	FEB	1732.4	15.0	4
1987	MAR	1718.8	18.1	4
1987	APR	1737.4	15.0	5
1987	MAY	1719.9	16.5	4
1987	JUN	1718.3	9.6	3
1987	JUL	1689.0	14.5	4
1987	AUG	1697.4	10.7	3
1987	SEP	1714.2	27.2	5
1987	OCT	1732.7	13.2	4
1987	NOV	1728.8	12.4	4
1987	DEC	1724.2	14.8	5
1988	JAN	1731.8	5.1	4
1988	FEB	1740.7	16.1	4
1988	MAR	1720.0	21.2	4
1988	APR	1727.9	14.9	4
1988	MAY	1710.7	22.4	4
1988	JUN	1704.3	18.6	4
1988	JUL	1699.6	18.4	4
1988	AUG	1677.5	15.0	3
1988	SEP	1716.9	13.0	3
1988	OCT	1726.0	5.2	3
1988	NOV	1717.4	15.1	4
1988	DEC	1731.7	34.1	3

METHANE FLASK MONTHLY MEANS FOR MLO

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1653.6	5.3	4
1986	FEB	1650.5	7.3	4
1986	MAR	1638.2		1
1986	APR	1675.5	14.1	4
1986	MAY	1663.3	12.5	5
1986	JUN	1656.5	4.9	4
1986	JUL	1671.7	23.8	5
1986	AUG	1652.1	12.1	5
1986	SEP	1653.5	15.5	4
1986	OCT	1675.3	14.6	4
1986	NOV	1668.0	14.6	4
1986	DEC	1679.1	6.1	5
1987	JAN	1669.8	7.4	4
1987	FEB	1674.0	12.1	4
1987	MAR	1669.8	12.5	4
1987	APR	1675.5	14.5	4
1987	MAY	1671.7	14.7	5
1987	JUN	1671.7	17.6	4
1987	JUL	1652.6	7.3	5
1987	AUG	1666.5	25.5	4
1987	SEP	1656.8	8.0	5
1987	OCT	1681.6	14.5	5
1987	NOV	1700.7	19.0	4
1987	DEC	1684.3	12.3	5
1988	JAN	1677.0	9.1	4
1988	FEB	1680.8	6.9	3
1988	MAR	1679.7	10.0	4
1988	APR	1693.3	9.8	4
1988	MAY	1684.9	17.6	4
1988	JUN	1674.6	15.5	4
1988	JUL	1668.1	3.2	5
1988	AUG	1673.6	16.8	4
1988	SEP	1678.0	13.9	5
1988	OCT	1687.0	19.5	4
1988	NOV	1701.5	2.4	2
1988	DEC	1703.7	16.6	5

METHANE FLASK MONTHLY MEANS FOR NWR

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1677.7	13.8	3
1986	FEB	1713.9	24.8	3
1986	MAR	1705.3	26.1	4
1986	APR	1683.4	14.2	4
1986	MAY	1704.7	11.4	4
1986	JUN	1693.9	18.1	4
1986	JUL	1656.9	10.0	4
1986	AUG	1679.6	10.4	7
1986	SEP	1669.3	16.5	5
1986	OCT	1704.4	1.4	4
1986	NOV	1701.2	16.8	3
1986	DEC	1701.5	3.6	4
1987	JAN	1699.4	26.2	4
1987	FEB	1714.9	26.7	4
1987	MAR	1725.1	22.2	3
1987	APR	1705.9	11.0	4
1987	MAY	1698.7	24.2	4
1987	JUN	1699.5	27.2	5
1987	JUL	1686.5	26.5	4
1987	AUG	1697.8	10.0	5
1987	SEP	1692.6	2.5	3
1987	OCT	1714.6	5.8	5
1987	NOV	1715.2	15.4	4
1987	DEC	1728.7	17.7	5
1988	JAN	1733.5	18.7	4
1988	FEB	1725.9	7.1	4
1988	MAR	1730.3	41.1	5
1988	APR	1724.3	13.0	4
1988	MAY	1732.0	20.0	4
1988	JUN	1699.5	16.5	4
1988	JUL	1708.4	20.6	4
1988	AUG	1683.3	1.5	3
1988	SEP	1721.6	21.6	4
1988	OCT	1709.4	6.1	3
1988	NOV	1734.4	19.4	5
1988	DEC	1735.2	27.8	4

METHANE FLASK MONTHLY MEANS FOR OPW

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1712.7		1
1986	FEB			
1986	MAR	1721.3	1.2	2
1986	APR	1737.3	10.1	5
1986	MAY	1734.9	5.3	2
1986	JUN	1719.9	7.9	2
1986	JUL	1698.3	2.8	2
1986	AUG	1690.5	2.5	2
1986	SEP	1739.6	2.7	2
1986	OCT	1734.1	4.9	2
1986	NOV			
1986	DEC			
1987	JAN	1729.3		1
1987	FEB	1734.0	23.3	2
1987	MAR	1731.2		1
1987	APR	1745.6	1.0	2
1987	MAY	1737.8	3.0	2
1987	JUN	1724.8		1
1987	JUL	1707.3	6.8	3
1987	AUG	1686.0	2.7	2
1987	SEP	1731.6	31.8	3
1987	OCT			
1987	NOV			
1987	DEC			
1988	JAN	1757.0	4.5	2
1988	FEB	1750.4	1.8	2
1988	MAR	1762.9	16.8	4
1988	APR			
1988	MAY			
1988	JUN			
1988	JUL	1712.9	4.9	2
1988	AUG	1707.3	3.6	4
1988	SEP	1738.0	2.9	2
1988	OCT	1760.1	6.5	3
1988	NOV	1755.3	11.2	4
1988	DEC	1753.7	3.5	3

METHANE FLASK MONTHLY MEANS FOR PSA

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1586.8	1.6	4
1986	FEB	1577.4	1.0	3
1986	MAR	1578.5	4.2	2
1986	APR	1584.8	1.9	2
1986	MAY	1587.8	2.0	2
1986	JUN	1603.3		1
1986	JUL			
1986	AUG			
1986	SEP	1615.5		1
1986	OCT	1615.6		1
1986	NOV	1611.7		1
1986	DEC	1609.5		1
1987	JAN	1598.6		1
1987	FEB	1588.9	1.1	4
1987	MAR	1593.3	3.5	4
1987	APR	1594.9	1.7	4
1987	MAY	1603.8	2.7	2
1987	JUN	1613.3	5.0	3
1987	JUL	1616.3	3.2	5
1987	AUG	1619.5		1
1987	SEP	1625.5	2.4	4
1987	OCT	1625.8	1.1	3
1987	NOV			
1987	DEC	1615.3		1
1988	JAN	1608.1	4.0	3
1988	FEB	1606.0		1
1988	MAR	1600.2	3.5	3
1988	APR			
1988	MAY	1613.3	3.1	2
1988	JUN	1626.5	2.7	3
1988	JUL	1628.6	5.6	4
1988	AUG			
1988	SEP	1643.1		1
1988	OCT			
1988	NOV	1634.5		1
1988	DEC	1624.4	3.1	4

METHANE FLASK MONTHLY MEANS FOR RPB

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN			
1986	FEB			
1986	MAR			
1986	APR			
1986	MAY			
1986	JUN			
1986	JUL			
1986	AUG			
1986	SEP			
1986	OCT			
1986	NOV			
1986	DEC			
1987	JAN			
1987	FEB			
1987	MAR			
1987	APR			
1987	MAY			
1987	JUN			
1987	JUL			
1987	AUG			
1987	SEP			
1987	OCT			
1987	NOV	1685.6	15.2	3
1987	DEC	1689.6	7.3	4
1988	JAN	1711.9	13.3	5
1988	FEB	1701.6	3.4	2
1988	MAR	1692.2	13.0	2
1988	APR	1690.0	12.9	5
1988	MAY	1691.0	8.9	3
1988	JUN	1683.5	11.2	4
1988	JUL	1681.8	6.0	4
1988	AUG	1687.7	16.6	4
1988	SEP	1689.0	14.7	4
1988	OCT	1697.1	25.7	4
1988	NOV	1696.2	10.6	4
1988	DEC	1716.9	11.9	3

METHANE FLASK MONTHLY MEANS FOR SEY

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1641.5	31.7	2
1986	FEB	1644.3	8.7	2
1986	MAR	1655.0		1
1986	APR	1599.6	12.3	3
1986	MAY			
1986	JUN	1611.1	1.9	2
1986	JUL	1622.7	15.2	3
1986	AUG	1631.1	20.5	3
1986	SEP	1621.5	5.6	3
1986	OCT	1616.7	16.7	2
1986	NOV	1611.9		1
1986	DEC	1663.7	18.1	3
1987	JAN	1679.9	32.2	3
1987	FEB	1664.1	2.6	3
1987	MAR	1655.9	6.2	3
1987	APR	1641.3		1
1987	MAY			
1987	JUN			
1987	JUL			
1987	AUG			
1987	SEP			
1987	OCT	1625.0		1
1987	NOV	1623.3		1
1987	DEC	1663.0		1
1988	JAN	1684.4	11.9	4
1988	FEB	1670.3	6.2	2
1988	MAR	1664.9		1
1988	APR	1615.4		1
1988	MAY	1620.6	4.9	2
1988	JUN			
1988	JUL			
1988	AUG	1633.4	3.2	2
1988	SEP			
1988	OCT			
1988	NOV	1649.9		1
1988	DEC	1688.6	11.3	2

METHANE FLASK MONTHLY MEANS FOR SHM

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1728.8	6.3	4
1986	FEB	1733.3	7.8	4
1986	MAR	1746.7	4.1	2
1986	APR	1745.7	6.7	2
1986	MAY	1749.0		1
1986	JUN	1717.8	11.7	2
1986	JUL	1709.3		1
1986	AUG	1736.3		1
1986	SEP			
1986	OCT			
1986	NOV	1753.4	11.8	2
1986	DEC	1738.9		1
1987	JAN	1752.4	4.2	3
1987	FEB	1768.3		1
1987	MAR	1740.4	3.1	3
1987	APR	1759.7	1.1	2
1987	MAY	1752.6	4.1	3
1987	JUN	1736.0	1.6	2
1987	JUL	1720.4	1.4	3
1987	AUG	1720.4	12.9	4
1987	SEP			
1987	OCT			
1987	NOV	1765.6	4.3	4
1987	DEC	1769.3	7.6	5
1988	JAN			
1988	FEB	1767.4	6.6	4
1988	MAR	1768.6	6.6	2
1988	APR	1773.1		1
1988	MAY	1767.3	16.0	5
1988	JUN	1741.2	7.4	4
1988	JUL	1737.3	5.4	3
1988	AUG	1738.0	23.9	2
1988	SEP	1754.9	10.2	4
1988	OCT	1771.8	5.7	3
1988	NOV	1770.3	10.1	2
1988	DEC	1776.8	3.5	2

METHANE FLASK MONTHLY MEANS FOR SIO

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN			
1986	FEB			
1986	MAR			
1986	APR			
1986	MAY			
1986	JUN			
1986	JUL			
1986	AUG			
1986	SEP	1713.4	2.1	6
1986	OCT			
1986	NOV			
1986	DEC			
1987	JAN			
1987	FEB			
1987	MAR			
1987	APR			
1987	MAY			
1987	JUN			
1987	JUL			
1987	AUG			
1987	SEP			
1987	OCT			
1987	NOV			
1987	DEC			
1988	JAN			
1988	FEB			
1988	MAR			
1988	APR			
1988	MAY			
1988	JUN			
1988	JUL			
1988	AUG			
1988	SEP			
1988	OCT			
1988	NOV			
1988	DEC			

METHANE FLASK MONTHLY MEANS FOR SMO

YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1605.7	18.2	3
1986	FEB	1620.1		1
1986	MAR	1613.2	12.4	3
1986	APR	1607.7	6.7	4
1986	MAY	1602.3	4.8	5
1986	JUN	1604.3		1
1986	JUL	1611.0	3.5	4
1986	AUG	1608.7	.1	2
1986	SEP	1615.2	1.0	2
1986	OCT	1609.9	3.9	5
1986	NOV	1609.3	2.6	5
1986	DEC	1601.7	6.3	5
1987	JAN	1604.4	15.3	8
1987	FEB	1621.0	15.7	6
1987	MAR	1623.1	11.6	6
1987	APR	1604.4	4.6	4
1987	MAY	1609.9	3.4	9
1987	JUN	1617.4	3.3	6
1987	JUL	1622.5	3.6	10
1987	AUG	1623.5	2.6	8
1987	SEP	1622.7	2.3	16
1987	OCT	1623.8	3.5	18
1987	NOV	1617.7	3.5	11
1987	DEC	1618.1	6.5	15
1988	JAN	1624.3	15.4	12
1988	FEB	1633.4	10.5	9
1988	MAR	1614.2	7.7	15
1988	APR	1630.8	15.4	9
1988	MAY	1614.4	3.3	10
1988	JUN	1623.1	3.2	20
1988	JUL	1630.5	3.9	14
1988	AUG	1638.6	8.3	14
1988	SEP	1635.1	4.1	17
1988	OCT	1638.9	4.3	14
1988	NOV	1639.4	5.6	13
1988	DEC	1634.3	6.0	14

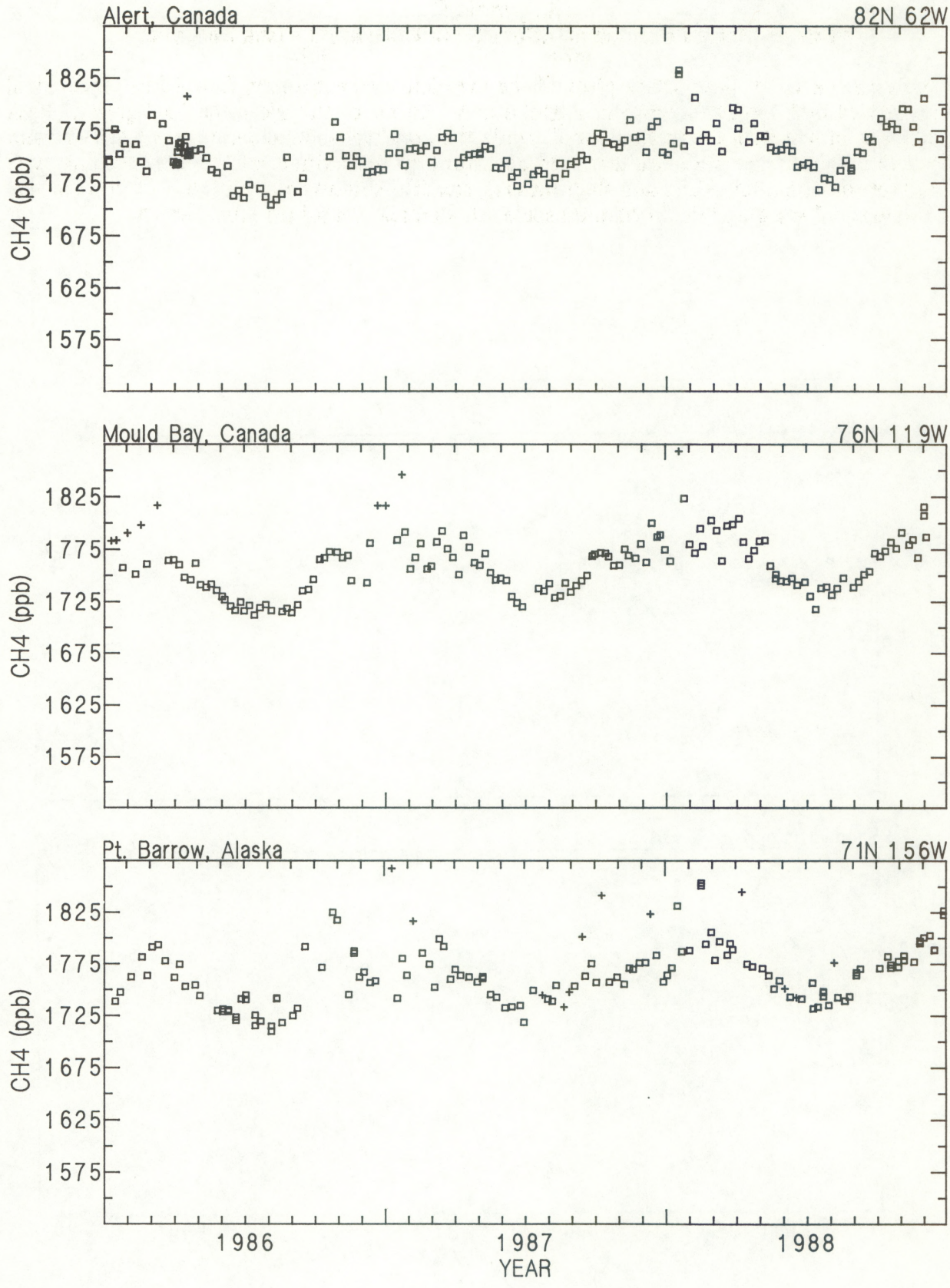
METHANE FLASK MONTHLY MEANS FOR SPO

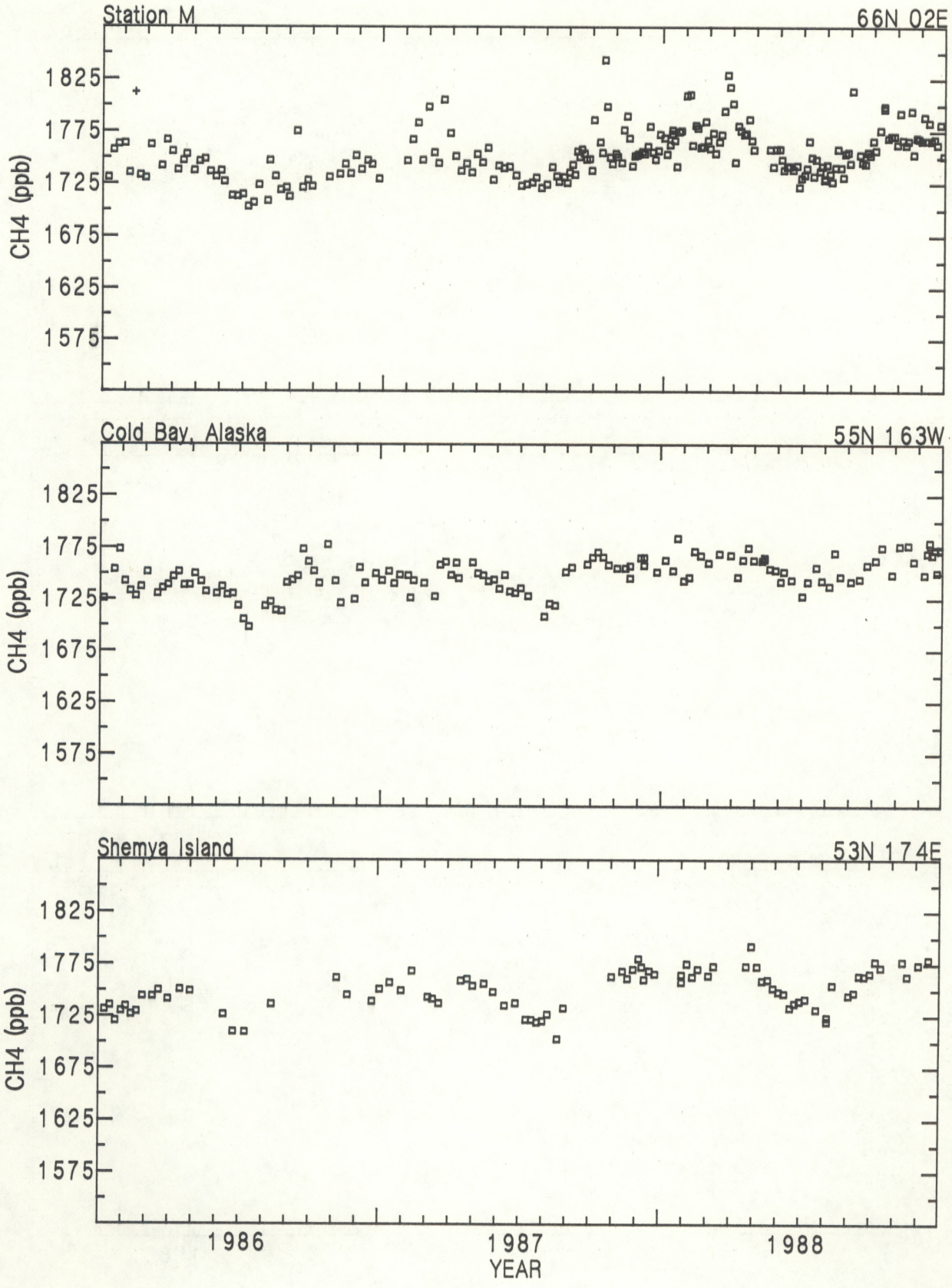
YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1585.4	4.0	3
1986	FEB	1577.5	1.8	2
1986	MAR	1583.4	1.2	3
1986	APR	1588.5	3.7	4
1986	MAY	1591.2	4.7	4
1986	JUN	1599.1	1.5	4
1986	JUL	1608.9	8.6	2
1986	AUG	1612.2	.4	2
1986	SEP	1614.6	2.4	3
1986	OCT	1614.4	1.3	4
1986	NOV	1611.1	5.1	5
1986	DEC	1605.8	4.7	3
1987	JAN	1596.4	3.5	10
1987	FEB	1590.8	.7	4
1987	MAR	1593.1	.9	4
1987	APR	1598.3	5.6	3
1987	MAY	1603.2	5.7	4
1987	JUN	1609.5	3.1	5
1987	JUL	1618.6	3.2	4
1987	AUG	1621.2	2.7	4
1987	SEP	1624.4	1.4	4
1987	OCT	1627.2	2.9	3
1987	NOV	1622.2	1.1	2
1987	DEC	1615.8	4.3	4
1988	JAN	1605.2	3.5	5
1988	FEB	1601.5	3.8	4
1988	MAR	1600.2		1
1988	APR	1610.9	1.3	3
1988	MAY	1611.8	4.7	4
1988	JUN	1620.2	6.1	3
1988	JUL	1627.8	2.7	3
1988	AUG	1635.5	2.7	3
1988	SEP	1636.8	2.3	4
1988	OCT	1639.7	2.4	4
1988	NOV	1639.5	2.4	3
1988	DEC	1629.9	3.9	10

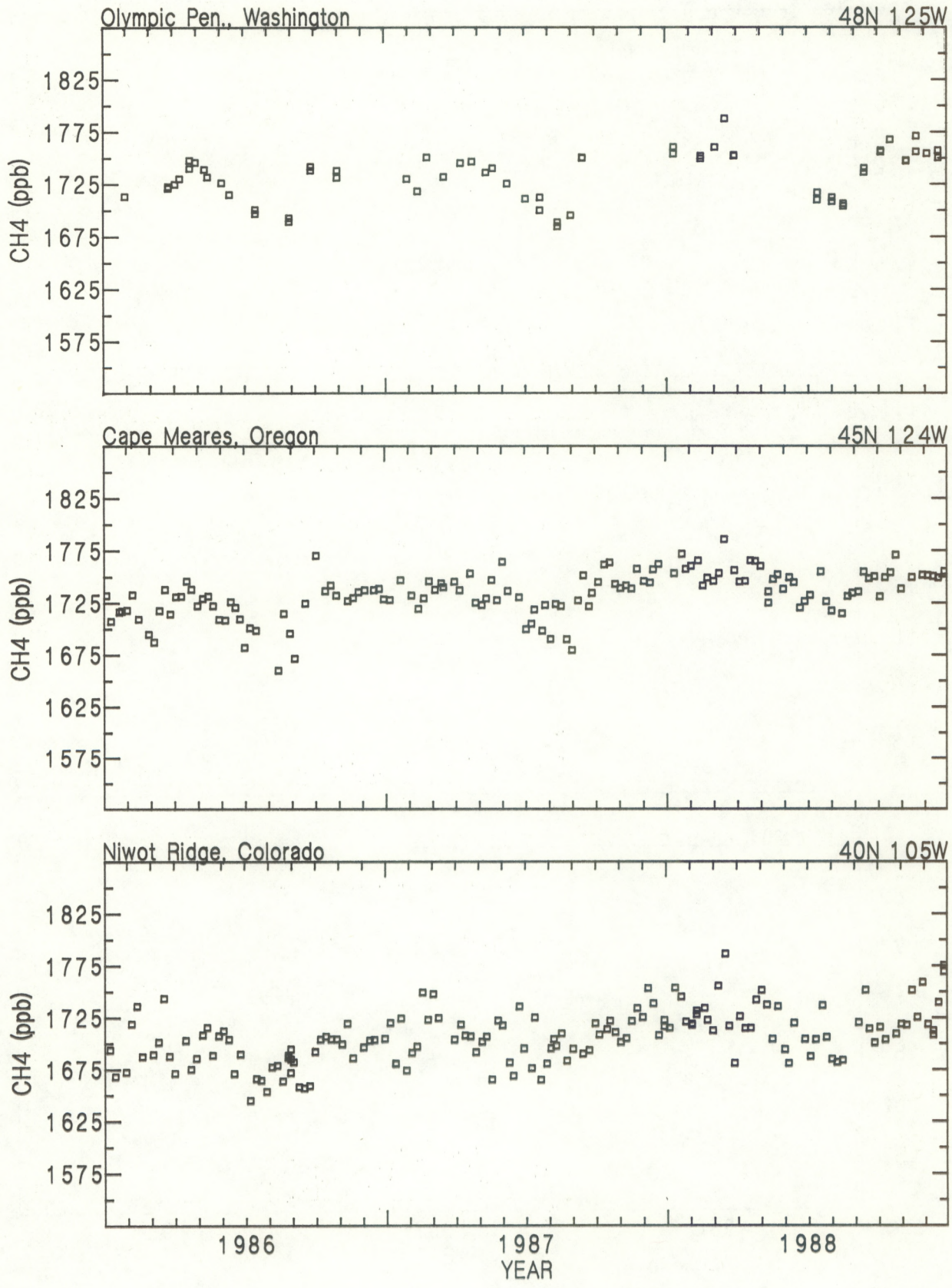
METHANE FLASK MONTHLY MEANS FOR STM					METHANE FLASK MONTHLY MEANS FOR SYO				
YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks	YEAR	MONTH	CH4 (ppb)	St. Dev. (ppb)	# of Flasks
1986	JAN	1753.1	15.5	4	1986	JAN			
1986	FEB	1732.2	2.5	3	1986	FEB			
1986	MAR	1756.4	13.3	3	1986	MAR			
1986	APR	1745.7	8.6	5	1986	APR	1580.7		1
1986	MAY	1740.1	8.2	4	1986	MAY	1593.2		1
1986	JUN	1721.9	11.7	4	1986	JUN	1602.6		1
1986	JUL	1711.3	9.1	4	1986	JUL	1610.5		1
1986	AUG	1722.6	14.2	6	1986	AUG	1618.8		1
1986	SEP	1736.2	26.1	4	1986	SEP	1618.8		1
1986	OCT	1730.7		1	1986	OCT	1617.0		1
1986	NOV	1740.5	8.5	4	1986	NOV	1611.6		1
1986	DEC	1739.2	7.7	4	1986	DEC	1604.5		1
1987	JAN				1987	JAN			
1987	FEB	1760.9	17.5	4	1987	FEB			
1987	MAR	1774.9	26.6	5	1987	MAR			
1987	APR	1741.5	7.3	4	1987	APR			
1987	MAY	1745.3	11.7	5	1987	MAY			
1987	JUN	1733.8	8.4	4	1987	JUN			
1987	JUL	1725.2	4.1	4	1987	JUL			
1987	AUG	1729.9	6.2	6	1987	AUG			
1987	SEP	1746.4	8.8	10	1987	SEP			
1987	OCT	1774.4	33.8	8	1987	OCT			
1987	NOV	1758.8	16.0	9	1987	NOV			
1987	DEC	1760.3	10.6	8	1987	DEC			
1988	JAN	1764.7	12.2	8	1988	JAN			
1988	FEB	1779.1	19.8	9	1988	FEB	1606.3	.6	2
1988	MAR	1783.1	27.9	8	1988	MAR			
1988	APR	1773.3	16.3	9	1988	APR	1609.3	3.4	2
1988	MAY	1753.9	8.4	4	1988	MAY	1618.3		1
1988	JUN	1737.8	8.2	8	1988	JUN	1625.5		1
1988	JUL	1742.0	11.5	9	1988	JUL			
1988	AUG	1742.8	10.5	10	1988	AUG			
1988	SEP	1761.5	24.4	7	1988	SEP	1636.8	2.1	2
1988	OCT	1772.0	13.1	7	1988	OCT	1636.5	1.0	2
1988	NOV	1771.7	14.6	8	1988	NOV	1634.6	2.6	2
1988	DEC	1770.5	12.0	9	1988	DEC	1627.9		1

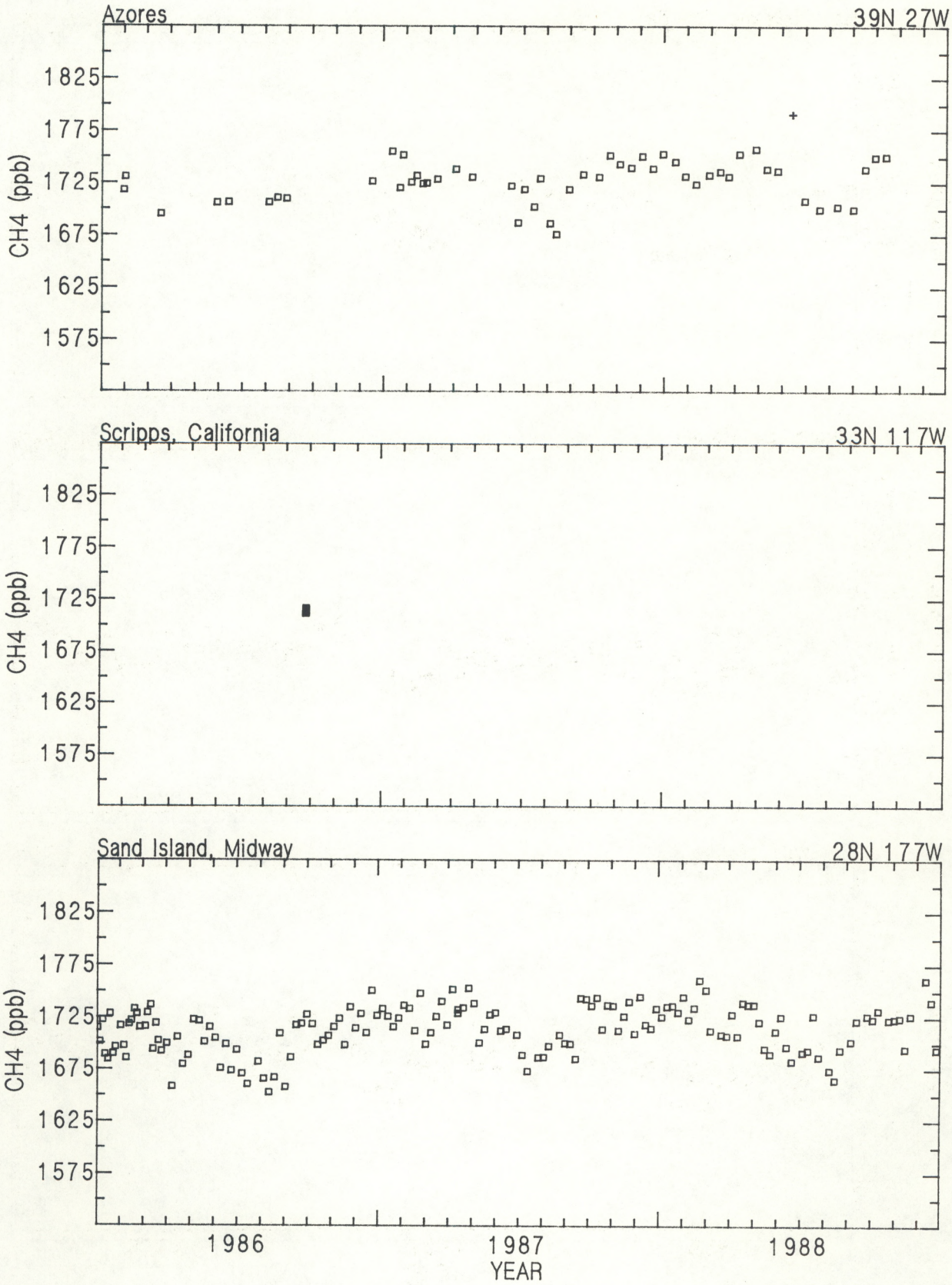
Appendix C
Plots of Methane Concentrations from Individual Flask Samples

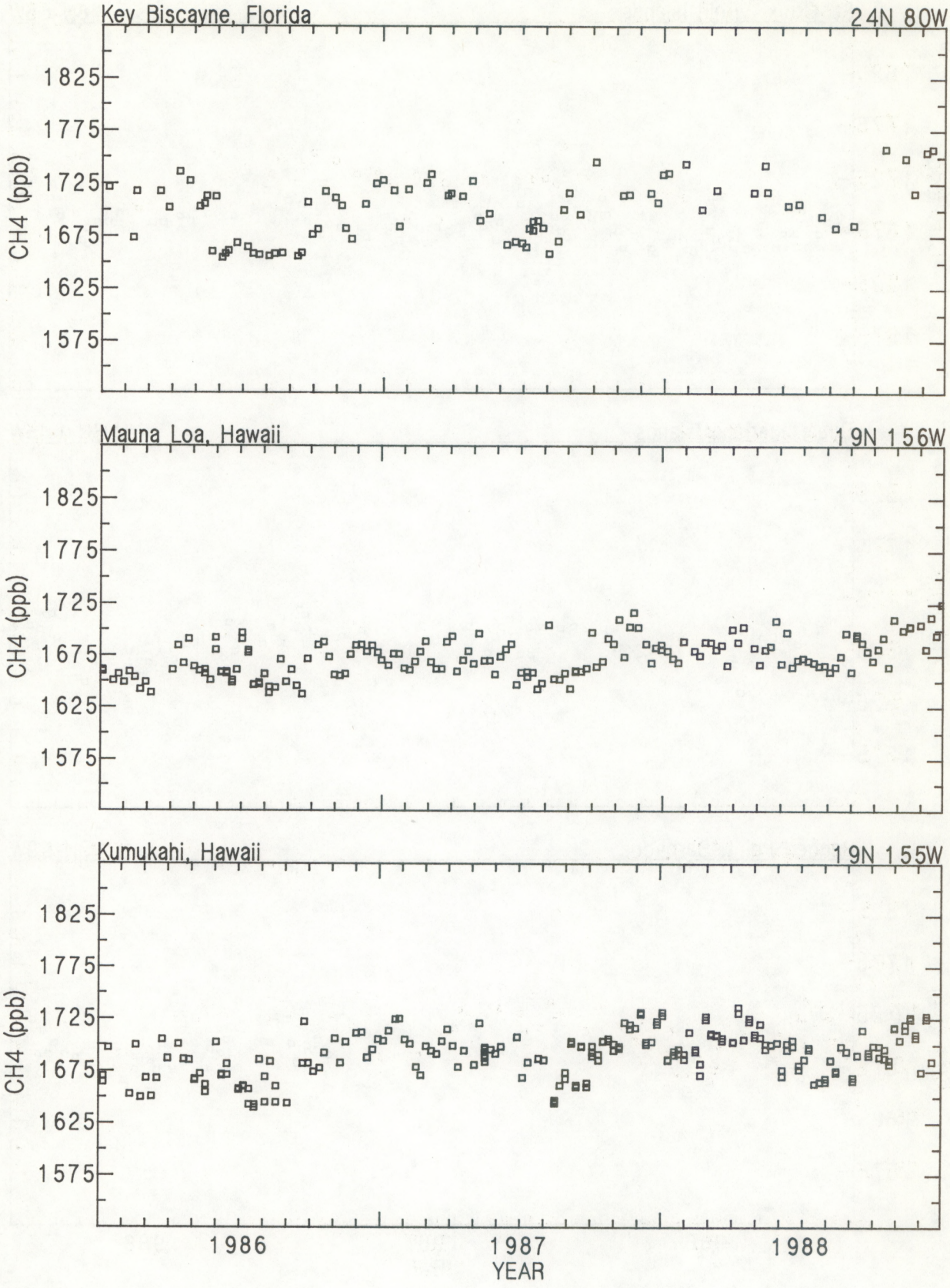
We show here a set of time series plots of the methane concentrations found from individual flask samples that were tabulated in Appendix A. In all of the plots the background flask samples are shown with a square symbol, while the non-background samples are shown with a plus (+) symbol. The plots are arranged according to the latitude of the site, starting with the northernmost site of ALT, and then moving steadily southward. For ease of comparison both the vertical scale and the horizontal scale are identical for all the sites shown.

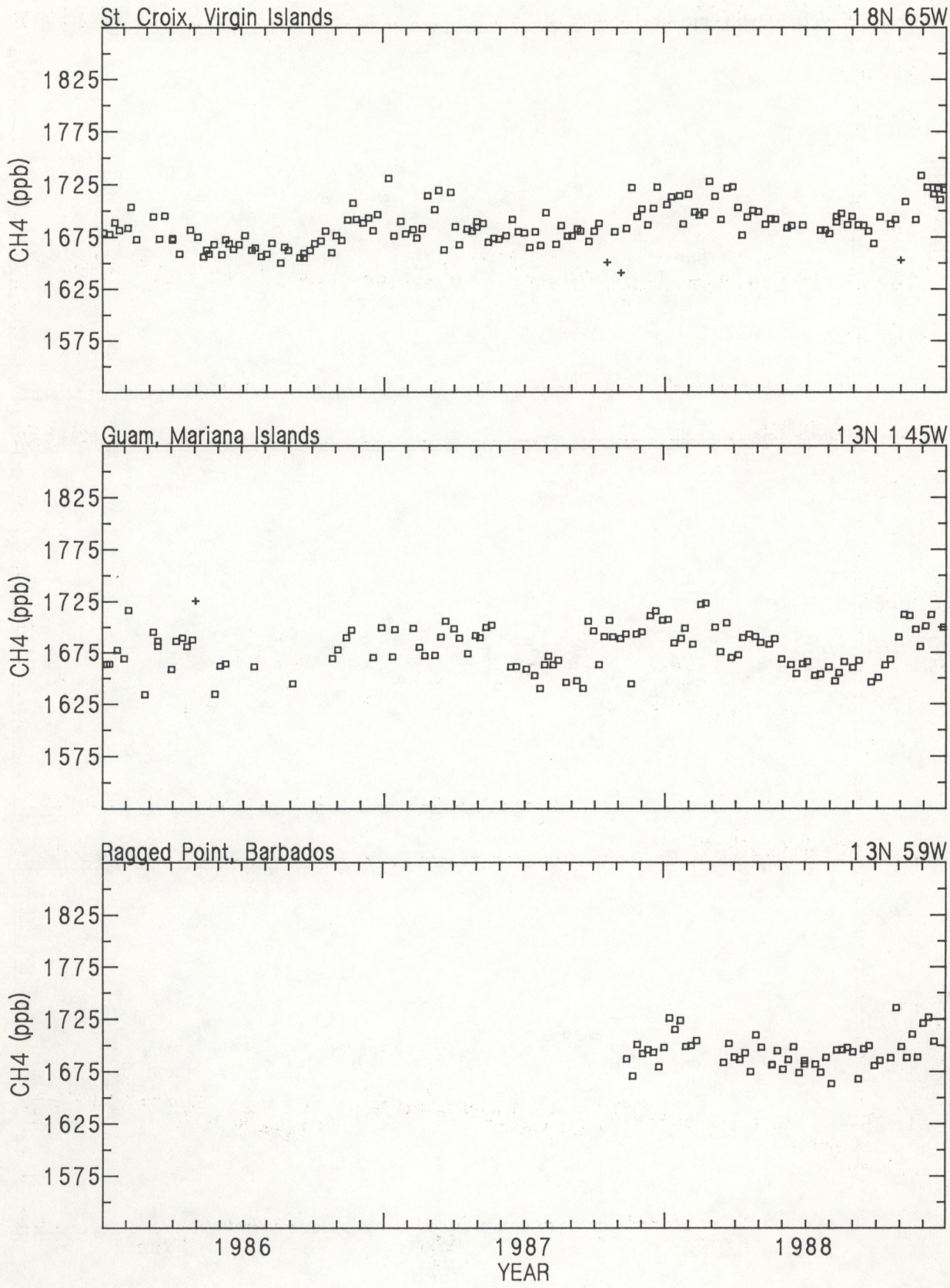

Alert, Canada
82N 62W
Mould Bay, Canada
76N 119W
Pt. Barrow, Alaska
71N 156W
CH4 (ppb)
1825
1775
1725
1675
1625
1575
1986
1987
1988
YEAR

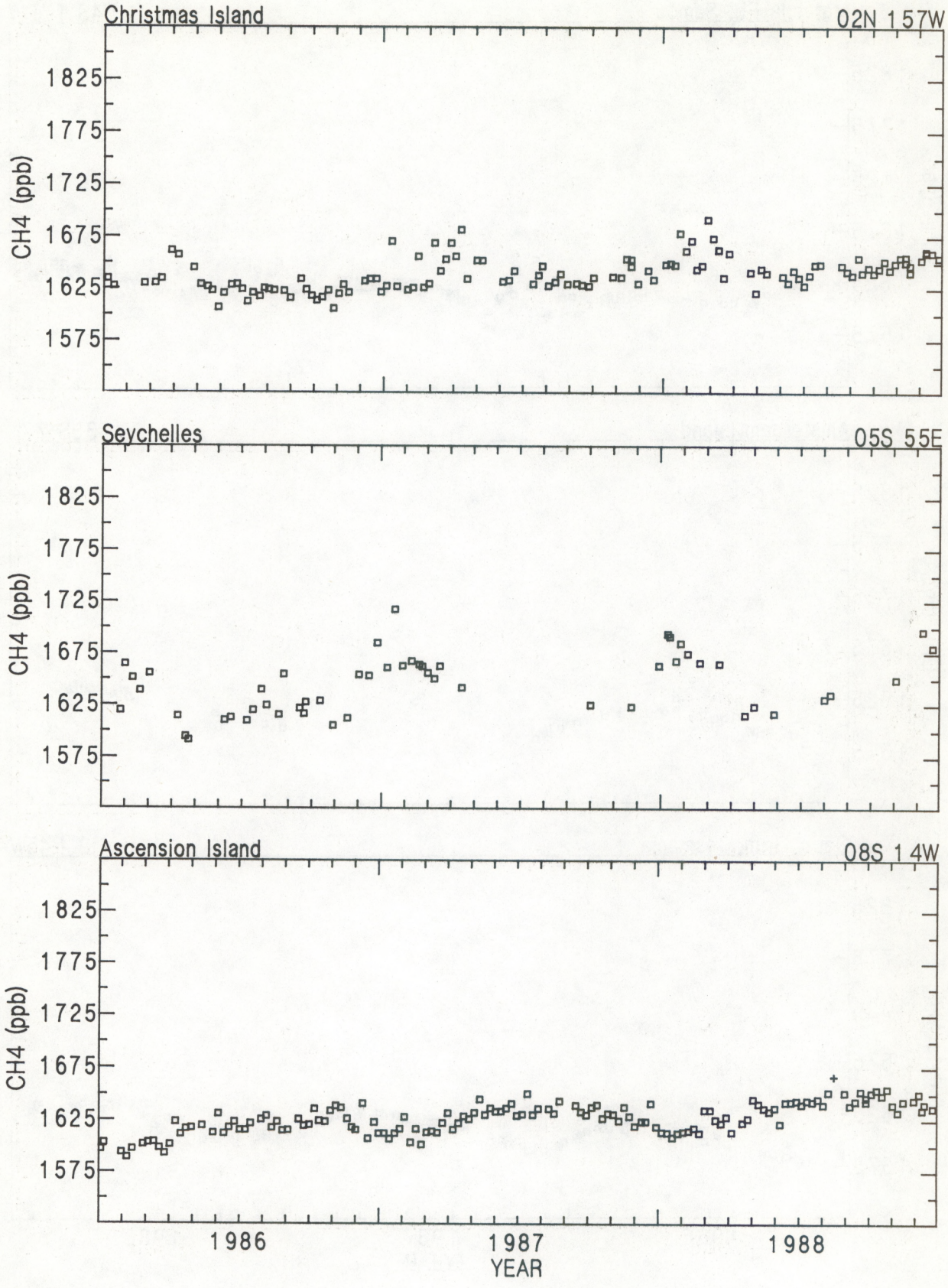

Station M
66N 02E
Cold Bay, Alaska
55N 163W
Shemya Island
53N 174E
CH4 (ppb)
1825
1775
1725
1675
1625
1575
1986
1987
1988
YEAR

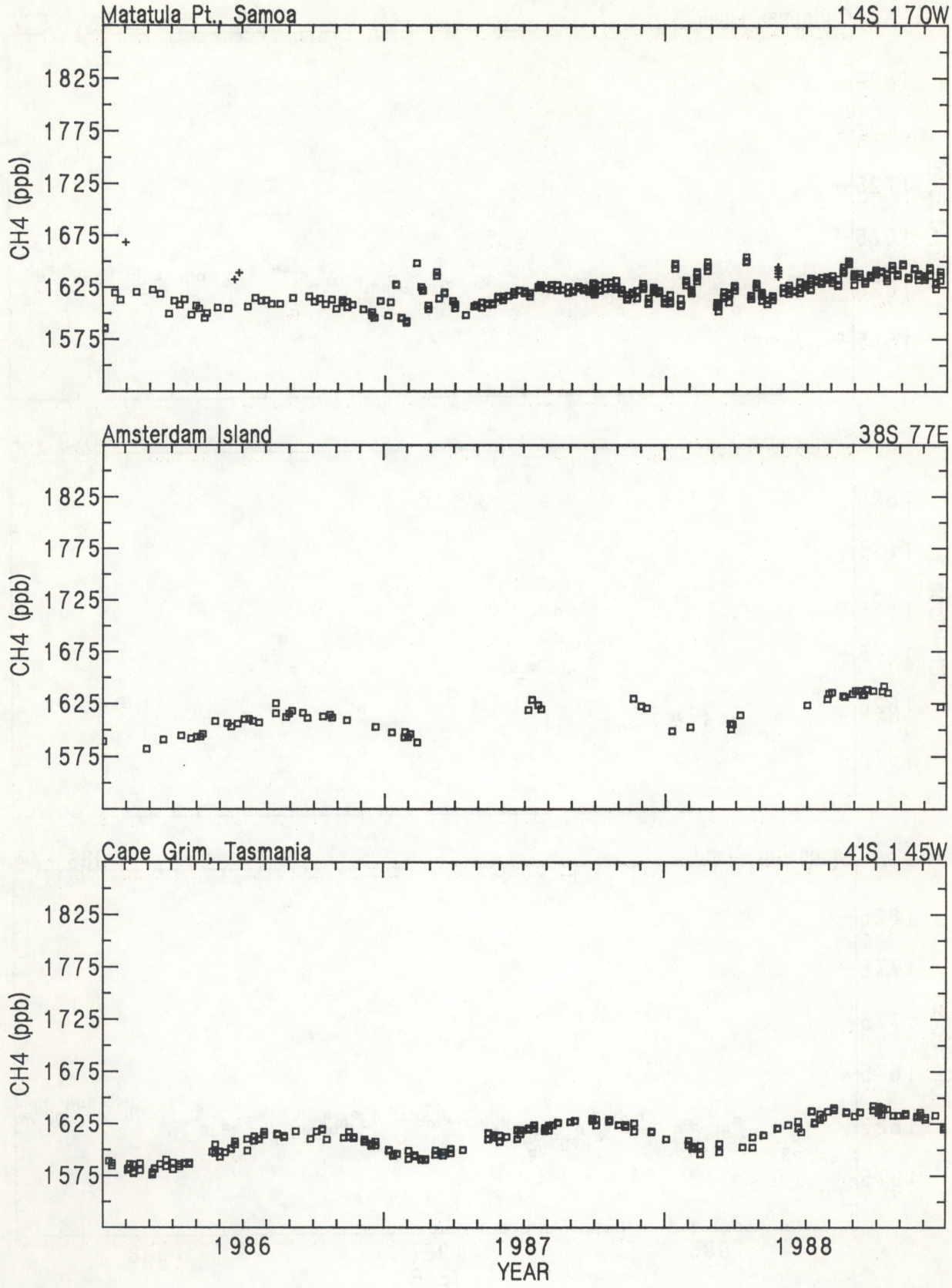

Olympic Pen., Washington
48N 125W
Cape Meares, Oregon
45N 124W
Niwot Ridge, Colorado
40N 105W
CH4 (ppb)
1825
1775
1725
1675
1625
1575
1986
1987
1988
YEAR

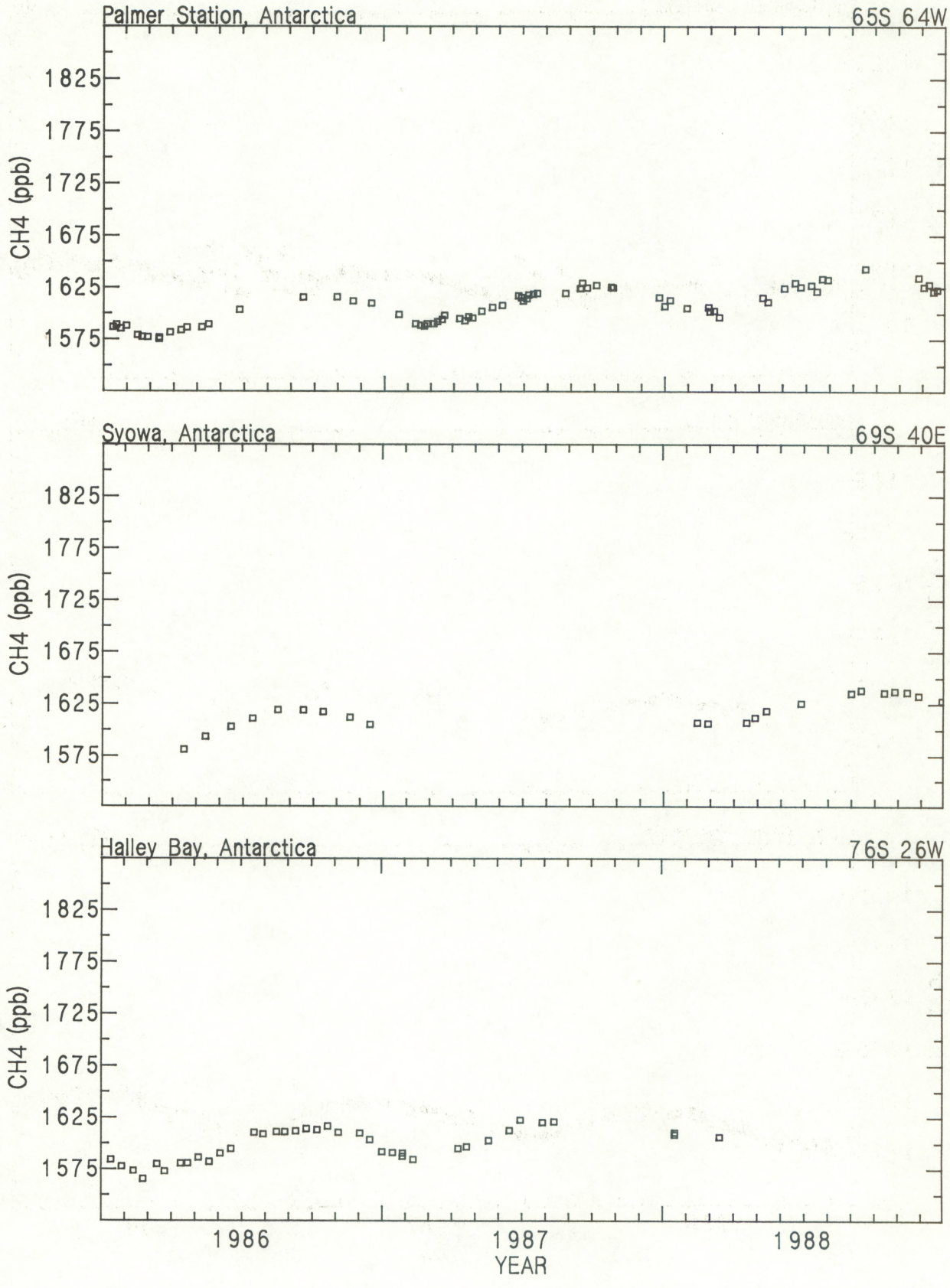

Azores
39N 27W
Scripps, California
33N 117W
Sand Island, Midway
28N 177W
CH4 (ppb)
1825
1775
1725
1675
1625
1575
1986
1987
1988
YEAR

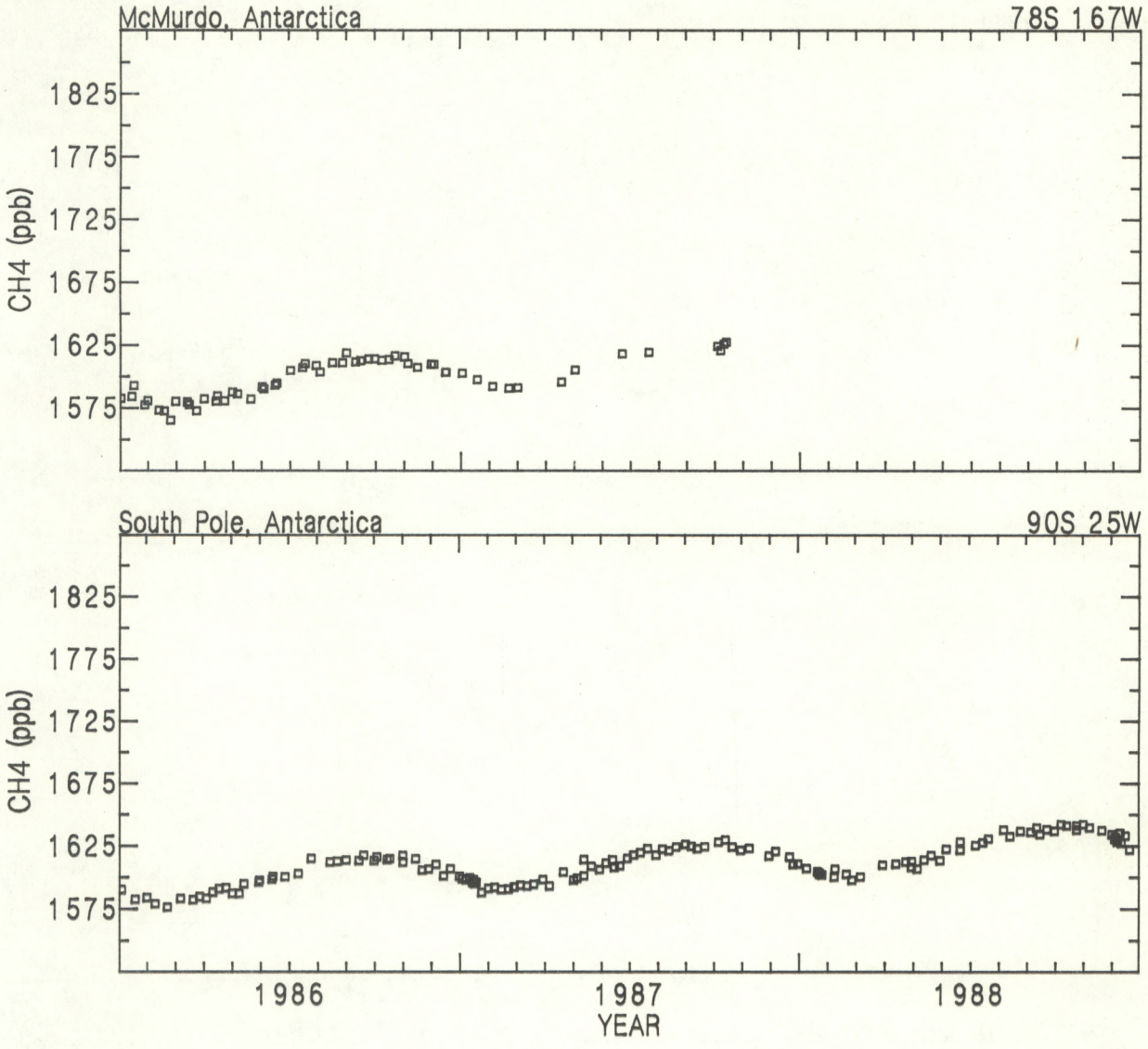

Key Biscayne, Florida
24N 80W
Mauna Loa, Hawaii
19N 156W
Kumukahi, Hawaii
19N 155W
CH4 (ppb)
1825
1775
1725
1675
1625
1575
1986
1987
1988
YEAR


St. Croix, Virgin Islands
18N 65W
Guam, Mariana Islands
13N 145W
Ragged Point, Barbados
13N 59W
CH4 (ppb)
1825
1775
1725
1675
1625
1575
1986
1987
1988
YEAR


Christmas Island
02N 157W
Seychelles
05S 55E
Ascension Island
08S 14W
CH4 (ppb)
1825
1775
1725
1675
1625
1575
1986
1987
1988
YEAR


Matatula Pt., Samoa
14S 170W
Amsterdam Island
38S 77E
Cape Grim, Tasmania
41S 145W
CH4 (ppb)
1825
1775
1725
1675
1625
1575
1986
1987
1988
YEAR


Palmer Station, Antarctica
65S 64W
Syowa, Antarctica
69S 40E
Halley Bay, Antarctica
76S 26W
CH4 (ppb)
1825
1775
1725
1675
1625
1575
1986
1987
1988
YEAR



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