

BARING HEAD, NEW ZEALAND CARBON DIOXIDE
PROJECT DATA REPORT 1972-1975

Prepared by

David Lowe
Institute of Nuclear Sciences, D.S.I.R.
Lower Hutt, New Zealand

and

Charles D. Keeling
and Peter R. Guenther
Scripps Institution of Oceanography
La Jolla, California

Supplement to Baring Head, New Zealand CO₂ Project
Data Report 1972-1975 (No. 1)

Introduction

Several changes have been made to the CO₂ analysis system at Baring Head since the time of writing of the Data report No. 1. The purpose of this supplement is to describe the changes made which affect some of the data in the tables of report No. 1.

In September 1977 it was discovered that the post-field values of two surveillance gases No's 35224 and 35355 were 0.63 and 0.49 ppm lower than their pre-field values. Both these gases were used during the report period and the use of their pre-field values exerted an adverse influence on the apparent curvature of the URAS 1 analyser. When the pre and post combined values of 35224 and 35355 were used in the fit to find the curvature of the URAS 1 it was found that the Baring Head computed values of the working reference gases came into closer agreement with the SIO values of the working reference gases. Cylinder 35224 was placed on line at Baring Head in March 1974 and cylinder 35355 went on line in September 1975. Hence all the Baring Head computed values of the working reference gases from March 1974 to the end of the report period are changed. The final I air indices of this period are also changed. The final values used for surveillance No. 35224 was 323.14 the combined pre- and post-field measurement of the cylinder following Normal SIO

procedure. However the value used for surveillance No. 35355 was 322.28, the SIO post-field only. The available evidence from independent measurements in New Zealand indicate that 35355 probably drifted early in its life long before being put on line at Baring Head and that its value while on line at Baring Head was the SIO post-field value.

Computing

The tables of the original report were computed using a programmable calculator; a time consuming operation and susceptible to errors. In order to double check the original manually calculated report and to recompute the tables of the report with the corrected values of the surveillance gases 3 PLL programs were prepared. The programs were designed as far as possible to duplicate the format of the original tables making them consistent with the SIO system. They were also designed to accept possible future equipment changes like extra airlines and analysers being incorporated into the system. The programs used were as follows.

1) SIR CO₂

This program accepts raw test day data in the form of standard and compared cylinder No's, observed scale differences and number of comparisons. The program outputs Tables 1, 2, 3, 5, 7 and 8 in the format used in the report. In addition the program also outputs details of the quadratic fit used to calculate the curvature factor K.

2) SIK CO₂

This program accepts the K values derived from the test days using SIR CO₂. Decisions on whether K is to be held constant, interpolated or input as a daily calculation have to be made as described in section VII of the report. SIK CO₂ outputs table 4 of the report, a summary of the K_{WG} values and the operations on them for use with the air data.

3) SIA CO₂

This program accepts date, time, wind and preliminary means of the steady CO₂ intervals at Baring Head. The program also utilizes K_{WG} information from SIK CO₂ and outputs Table 11, 12 and 13 in the format of the report.

The only tables not produced by the computer programs are tables 6, 9 and 10. Tables 9 and 10 which summarize the working reference gas information are attached. When using the new values of the surveillance 35224 and 35355 it was found that the agreement of the Baring Head computation of the working reference gases with the Scripps computation improved. The further adjustment of the working reference values in table 9 as described in section XII was not necessary.

Further Data reports

This data report cover the period December 1972 to December 1975. During the report period a single analyser, a URAS 1 and a single

airline were used. In January 1976 another analyser, a URAS 2T was incorporated at Baring Head and late in 1976 two airlines were used. These developments will be described in following data reports.

I. Introduction

The concentration of atmospheric carbon dioxide has been continuously measured at Baring Head Light House, New Zealand, since December, 1972. This report contains final summaries of the CO₂ data taken there up to 1 January 1976 together with all relevant calibration information used in the preparation of that data. Results are presented in a series of tables with textual explanatory notes. The format of the tables is patterned after CO₂ project reports by the Scripps Institution of Oceanography (SIO). Instrumental techniques used and a site description of Baring Head are described in reports of the Institute of Nuclear Sciences (INS), Lower Hutt, New Zealand [Lowe, 1973, 1974]. An interpretation of the air data will be published in a scientific journal.

II. Method of calibration and final determination of reference gas concentrations

The calibration procedures are basically as adopted by the Scripps CO₂ project at Mauna Loa Observatory, Hawaii and described in Mauna Loa Reports 1 through 6.*

* Copies are available by writing to Scripps Institution of Oceanography, c/o Charles D. Keeling, La Jolla, California 92093. Reports 3 and 4 can be obtained from the American Society of Information Sciences as National Auxiliary Publication Service Documents Nos. 8530 and 02890, c/o Microfiche Publications, 440 Park Avenue South, New York, New York 10016 U.S.A.

High purity reference gases consisting of CO_2 in N_2 were used to calibrate the non-dispersive infrared (NDIR) gas analyzer used during the period of this report. The analyzer, a Hartmann and Braun model URAS 1, was installed in an out-building of the Baring Head Light House, 12 km southeast of Wellington with exposure to the southern Pacific Ocean. Except for 3 reference gases prepared and analyzed solely in New Zealand, all reference gases were supplied by SIO and calibrated at SIO with an Applied Physics Corporation (APC) NDIR analyzer. In this report, as in previous field station reports prepared at SIO, the CO_2 concentrations of the gases are expressed in SIO 1956 index units. Such index values or "indices", denoted here by the symbol I , are related to the mole fraction of CO_2 in the reference gas and in air by equations listed in Appendix No. 1. Further details of the index and mole fraction scales are furnished by Keeling et al. [1976].

At the Baring Head CO_2 station, reference gas calibration tests took place, on average, once per month. During these tests a set of reference gases were repeatedly compared, one at a time, against a preselected "primary" reference gas or occasionally, against one of the other gases in the set. Recorder scale differences, read from the URAS 1 strip charts, were averaged and tabulated.

For the APC analyzers at SIO, the relationship between recorder scale differences and the SIO 1956, or I scale, index is linear by definition. The relationship between the Baring

Head URAS 1 recorder scale readings, denoted by the symbol S, and the I scale is expected to be non-linear, however. Over a narrow range of concentration near that of air the relation of S to I is found to be adequately represented by a quadratic relation of the form:

$$S = a_0 + a_1 I + a_2 I^2 \quad (1)$$

where a_0 , a_1 and a_2 are coefficients determined each test day by the method of least squares. Normally seven data pairs (S, I) are available, thus giving four degrees of freedom for the quadratic equation. The statistical parameter, χ^2 , is used as a measure of the goodness of fit to the data pairs, where:

$$\chi^2 = \frac{1}{n} \cdot \sum_i \left[\frac{1}{\sigma_i^2} (S_i - a_0 - a_1 I_i - a_2 I_i^2)^2 \right] \quad (2)$$

In equation (2) n denotes the number of degrees of freedom, σ_i the standard deviation of the recorder scale readings S_i . In the computations all the scale readings were given equal weight by arbitrarily setting $\sigma_i = 1$ for all S. For most test days χ^2 was found to be less than .01 with individual errors in the predicted scale differences found to be less than 0.30 ppm. If χ^2 was found to exceed .015 a single data pair was removed from the fit as described in section VI, below.

In order that the Baring Head calibration data might be preliminarily worked up with the least delay, initial calculations from test days employed a field station index, N , defined to be linear with the recorder scale, S , of the URAS 1. The N scale index was further defined to be equal to the I scale index for the primary reference gas, with SIO index, I_o , always lower in CO_2 concentration than air, and for a "High Span" gas, with SIO index, I_{HS} , always higher in CO_2 concentration than air, i.e.:

$$N_o = I_o$$

$$N_{HS} = I_{HS}$$

where:

$$I_o < I_{air} < I_{HS}$$

Indices of the reference gases on the N scale were determined by linear interpolation of the recorder strip chart ordinates, S , using the relation

$$N = I_o + (RSF)_N \cdot (S - S_o) \quad (3)$$

where S_o denotes the recorder scale value observed for the primary gas. The recorder scale factor, $(RSF)_N$, is defined by the expression:

$$(RSF)_N = \frac{I_{HS} - I_o}{S_{HS} - S_o} \quad (4)$$

The field station observations to determine the $(RSF)_N$ consisted either of repeated comparisons of the high span gas with the primary gas or repeated comparison of the high span with a third gas which in turn was compared repeatedly to the primary gas. Scale differences were read directly from the charts. The quantity $(S_{HS} - S_o)$ was found either as a direct average, $(\overline{S_{HS} - S_o})$ or as the sum of averages $(\overline{S_{HS} - S_x}) + (\overline{S_x - S_o})$ where S_x denotes the observed scale of a third gas. The values of I_{HS} and I_o used in equation (4) were as determined at S10.

Usually three gases besides the primary and high span gases were compared on a test day. These included one or two surveillance gases and one or two gases also used routinely in alternation with air between test day periods. The surveillance gases were kept in use for a year or more as a long term check on the calibration procedure, whereas the routine, so-called "working" gases remained in use only about one month.

Combining equations (1) and (3) to eliminate S:

$$N = I_o + (RSF)_N (a'_0 + a_1 I + a_2 I^2) \quad (5)$$

where a_0 in equation (1) is replaced by a specific zero point:

$$a'_0 = S_o - a_1 I_o - a_2 I_o^2 \quad (6)$$

In order to calculate I scale indices of working and surveillance gases from the results obtained on test days at Baring

Head, a quadratic relation equivalent to equation (5) was used to correct provisional results expressed as N-scale indices. The relation chosen was of the form:

$$N = I + K(I - I_o)(I - I_{HS}) \quad (7)$$

where the I scale indices of the primary and high span reference gas, as determined at SIO, appear explicitly as parameters in the quadratic equation, and where the factor K denotes an empirical constant which measures the "curvature", or departure of the N scale from linearity with the I scale.

Equating the coefficient in I^2 of the quadratic expressions (5) and (7) gives the formal relationship:

$$K = a_2(RSF)_N \quad (8)$$

The recorder scale difference of the high span reference gas from the primary gas, consistent with equation (1), is

$$\begin{aligned} S_{HS} - S_o &= a_1(I_{HS} - I_o) + a_2(I_{HS}^2 - I_o^2) \\ &= (I_{HS} - I_o)\{a_1 + a_2(I_{HS} + I_o)\} \end{aligned} \quad (9)$$

It follows from equations (4), (7) and (8) that:

$$K = \frac{a_2}{a_1 + a_2(I_o + I_{HS})} \quad (10)$$

This expression was used to evaluate K for each test day. As described above, the values of a_1 and a_2 were obtained from the fitting of data pairs (S, I) to equation (1). The results of all gases were used, with the I scale indices as determined at S10.

The N scale indices of the working and surveillance reference gases, as calculated each test day by the use of equation (3), are listed in Table 1. Table 2 lists recorder scale factors determined for each test day by equation (4). Table 3 lists the data used to calculate the curvature parameter, K. Indices on the I scale were derived from indices on the N scale by solving for I in equation (7) rearranged as a power series in I:

$$I^2 + (K^{-1} - I_o - I_{HS})I + I_o I_{HS} - NK^{-1} = 0 \quad (11)$$

These computed I scale indices for the working and surveillance reference gases are also listed in Table 1. They are further summarized in Tables 5 through 10.

III. Calculation of air indices from preliminary linear work-up

Calculation of the indices on the I scale for air followed a similar procedure to that for working and surveillance reference gases as just described. First a preliminary work-up of the air data was made using a linear scale, L, of the form:

$$L = I_{WG} + (RSF)_L \cdot (S - S_{WG}) \quad (12)$$

This expression is of the form of equation (3) but differs in that L scale indices are defined to be equal to I scale indices

for the working and the high span gas:

$$L_{WG} = I_{WG}$$

$$L_{HS} = I_{HS}$$

The recorder scale factor of equation (12) is defined as:

$$(RSF)_L = \frac{I_{HS} - I_{WG}}{S_{HS} - S_{WG}} \quad (13)$$

The scale difference $S_{HS} - S_{WG}$ is obtained from daily comparisons of the working and high span gas as part of the automatic procedure for operating the station. Specific daily comparisons are applied to air data obtained near the time of determination as described in section XV, below.

Combining equations (1) and (12) to eliminate S:

$$L_{air} = I_{WG} + (RSF)_L (a_0'' + a_1 I + a_2 I^2) \quad (14)$$

where a_0 in equation (1) is replaced by the specific zero point:

$$a_0'' = S_{WG} - a_1 I_{WG} - a_2 I_{WG}^2 \quad (15)$$

Analogous to equation (7) a quadratic relation was chosen of the form

$$L = I + K_{WG} (I - I_0)(I - I_{HS}) \quad (16)$$

This equation expresses the departure of the L and the I scale indices as a function of a curvature factor K_{WG} . Equating the coefficient of I^2 in (14) and (16) and expressing the difference $S_{HS} - S_{WG}$ in terms of a_1 , a_2 and I as was done to derive equation (9) leads to:

$$K_{WG} = \frac{a_2}{a_1 + a_2(I_{WG} + I_{HS})} \quad (17)$$

identical to equation (10) except that the denominator contains the expression $(I_{WG} + I_{HS})$ instead of $(I_o + I_{HS})$. Since $-a_1/a_2$ was always found to differ significantly from $(I_{WG} + I_{HS})$ or $(I_o + I_{HS})$, and since the index value, I_{WG} , differs only a few percent from I_o , the two parameters K and K_{WG} were found to be numerically almost equal. Both were evaluated for each test day, and if a working gas was changed on that day separate values of K_{WG} were calculated for each working gas. The values used for a_1 and a_2 to evaluate K_{WG} were the same as for K , i.e. they were derived using all of the retained data pairs (S, I) for that test day. In exceptional cases where a working gas was changed between test days, K_{WG} was calculated for both working gases on the test days immediately before and after the change was made. Whereas K was used exclusively for calculating reference gas I scale indices on test days, K_{WG} was interpolated between test days and used to calculate I scale indices of air. This procedure is further described in sections VII and XVI.

Preliminary and final L scale indices of air averaged over steady intervals of atmospheric CO_2 concentration at Baring Head are listed in Table 13.

Air indices on the I scale were derived from indices on the L scale by solving for I in equation (16) rearranged as a power series on I:

$$I^2 + (K_{WG}^{-1} - I_{WG} - I_{HS})I + I_{WG}I_{HS} - LK_{WG}^{-1} = 0 \quad (18)$$

I scale indices of air are listed in Table 13.

IV. Reference Gas Comparisons at Baring Head: Table 1.

This table lists in chronological order the average observed recorder scale differences of reference gases as determined from the URAS 1 strip charts. Also listed are N and I scale indices together with the $(RSF)_N$ and K values used in the computations.

The calibration of the analyzer on a given test day consisted of repeated comparisons of from 5 to 7 reference gases. Normally at least eight comparisons were obtained per pair of gases by alternately passing the gases through the analyzer for five minutes each at a flow rate of 0.5 l/min. Averages of the observed scale differences of the compared gases, in centimeters, for given series of comparisons were re-expressed as differences from the primary. The S values, now defined so that $S_0 = 0$, together with the I scale indices of each gas were treated as data pairs for the quadratic fit to equation (1) by least squares and the determination of K using equation (10). The primary gas was included as a data pair $(S_0 = 0, I_0)$. Test days occurred two or three times during the life of each working reference gas in current use: one test day just before its period of use, one just after, and usually one midway.

Gases are identified in all tables by cylinder numbers. In Table 1 column 1 lists the number of the higher ranking reference gas (either a primary or high span gas); column 2 lists the number of the cylinder with which it is compared. Column 3 lists the observed scale differences between gases listed in columns 1 and 2. If the higher ranking gas has a higher concentration the entry is negative and vice versa. Average scale differences, listed in column 3, were determined from the strip chart as the distance in centimeters measured perpendicularly between parallel straight lines drawn through successive traces. The number of comparisons, i.e. differences, is entered in column 4. The weighted average of the recorder scale factors, $(RSF)_N$, in column 5, are copied from column 7 of Table 2. The calculation is described below in section V. The curvature parameter K is listed in column 6, copied from column 4 or column 7 of Table 3. The calculation of K is described below in section VI.

The computed N scale index differences, each with the same sign as the corresponding scale difference, are listed in column 7. Column 8 lists the N scale indices of the working and surveillance reference gases computed using equation (3). Column 9 lists the I scale indices of the surveillance and working reference gases computed using equation (11) with the curvature value, K, listed in column 6.

V. Recorder scale factors: Table 2.

The recorder sensitivity, expressed by the recorder scale factor, $(RSF)_N$, is defined by equation (4) as the index difference, on the I scale, between the primary and high span reference gases divided by the average recorder scale difference in centimeters for these two reference gases. The units of the RSF are ppm/cm.

Columns 1 to 4 of Table 2 contain selected data copied from the corresponding columns of Table 1. Only direct comparisons between the primary and high span gases or transfer comparisons, where both primary and high span gases are run against a third gas, X, are used to determine $(RSF)_N$. Gas X is either a surveillance gas or a working gas.

The following format has been adopted from the SIO reporting scheme for reference gases standardization.

<u>Standard Gas No.</u>	<u>Compared Gas No.</u>	<u>Observed Scale Difference</u>	<u>Number of Comparisons</u>
I_o	I_{HS}	$[I_{HS}] - [I_o]$	n
I_o	X	$[X] - [I_o]$	a
I_{HS}	X	$[X] - [I_{HS}]$	b
I_o	I_{HS}	$[Y]^*$	$\left[\begin{array}{l} \text{smaller of} \\ \text{a or b} \end{array} \right]^*$
I_o	I_{HS}	$[I_{HS}] - [I_o]$	m

The asterisk on [Y] indicates this value has been computed via the transfer through the X reference gas. The number of comparisons of [Y] is the smaller of a or b. This number is also accompanied by an asterisk in the tables. The weight m, is the sum of a or b, whichever was chosen, and n.

Column 5 lists the average weighted I scale index difference of the primary and high span reference gases copied from Table 5 and based solely on calibrations at SIO. Column 6 lists each single set of $(RSF)_N$ values determined from the I scale index difference and the observed average scale difference. Column 7 lists the weighted average $(RSF)_N$ for the test day. Occasionally single $(RSF)_N$ values were omitted from the average for the day to be consistent with comparisons omitted in the work-up of the curvature factors as described in section VI, below. These omitted values are denoted by a cross, †. On the test day of 4 Jan 76, the transfer RSF should have been omitted due to the presence of a "zero" scale difference between the primary and working gas. The weighted average RSF should thus be 1.662, only negligibly different from 1.657, calculated including the transfer RSF.

VI. Summary of curvature factor determinations for Baring Head test days: Table 3.

This table lists the values of the curvature parameter, K, defined by equation (7). Values of K were calculated for all the test days run at Baring Head during the report period. These K values, except as noted, were used to calculate I scale indices of surveillance and working gases.

Column 1 lists the dates of the test days. Column 2 lists

the weighted values of $(RSF)_N$ from column 7 of Table 2. Columns 3, 4, and 5 list the results of a quadratic fit of all the test day data pairs of S and I using equation (1) to determine the a_1 : column 3 lists the number of data pairs, column 4 lists the K value obtained using equation (10) and column 5 the χ^2 value of the fit using equation (2). If the χ^2 value was greater than .015 one data pair was removed from the fit in an attempt to reduce the value of χ^2 . Columns 6, 7 and 8 show the results of this further analysis with column 6 the number of data pairs remaining and columns 7 and 8 the resulting K and χ^2 values. On all but four of the test days where χ^2 was initially greater than .015 the removal of one data pair from the fit reduced χ^2 below .015. The only exceptions were test days run on the 13 March 1974, 9 October 1975, 14 October 75 and 25 October 1975. On the 13 March 1974 the radiator assembly in the URAS 1 NDIR was warming up during the entire period of the reference gas test and all the comparisons are therefore equally suspect. On the 9 and 14 October 75 problems with the URAS 1 NDIR amplifier rendered the test day results suspect. On the 20 October 1975 an incorrect sequence of reference gases was run and the results could not be applied to this report. For these reasons the 13 March 1974 and the 9, 14, and 20 October 1975 test day results were rejected from further consideration.

Out of the 46 remaining test days considered in the report, 16 have one data pair removed from the fit.

On 21 May 1973, 16 August 1973, 10 September 1973, 15 May 1975 and 22 September 1975 the first primary versus high span run was omitted. On 20 January 1973, 3 July 1975, 2 September 1975,

10 September 1975, 25 October 1975, 19 November 1975, 26 November 1975, 11 December 1975, 22 December 1975 and 4 January 1976 the last primary high span versus primary run was omitted. On 7 May 1975 the surveillance versus high span run was omitted.

VII. Curvature factors, K_{WG} , used to determine I scale air indices: Table 4.

To establish the I scale indices of air it was necessary to replace K by K_{WG} as explained in section III and to establish a suitable K_{WG} value for each day of air observations. For the period 25 March 1974 to 27 March 1975 daily values of K_{WG} based on daily comparisons of three reference gases were calculated. The three reference gases used were the current primary, working, and high span reference gases providing three data pairs daily for fitting a quadratic. Daily values for the quadratic coefficients a_0 , a_1 and a_2 were obtained by solving simultaneously the three equations:

$$S_0 = 0 = a_0 + a_1 I_0 + a_2 I_0^2$$

$$S_{WG} = a_0 + a_1 I_{WG} + a_2 I_{WG}^2$$

$$S_{HS} = a_0 + a_1 I_{HS} + a_2 I_{HS}^2$$

Daily values of K_{WG} were calculated using equation (17). Four separate linear regressions versus time were run through the values by the method of least squares for the period 20 March 1974 to 20 August 1974. These are summarized in Table 4.

On 13 March 1974, 1 June 1974, 17 June 1974, 18 July 1974 and 20 August 1974, the analyzer was adjusted or changed resulting in a different condition for the URAS 1. Therefore linear regressions terminated on these dates.

For the remainder of the period of this report when no important adjustments or changes were made to the URAS 1, K_{WG} values for intermediate days were found by linear interpolation between values established on successive test dates.

Adjustments and changes to the URAS 1 analyzer that might have produced a change in the instrument response were taken into consideration, however. In these cases the value of K_{WG} on the test day preceding the change was extrapolated as a constant until the day of the instrumental change. After the day of the change K_{WG} value was held constant at the value of K_{WG} on the immediately following test day. Table 4 lists the K_{WG} values and operations of K_{WG} between test dates. Column 1 describes the operation on K_{WG} between the dates shown in columns 2 and 3. Columns 4 and 5 list the initial and end values of K_{WG} on these dates. All the K_{WG} values used to calculate the air indices are shown in column 6 of Table 13.

VIII. N and I scale indices of Baring Head surveillance reference gases: Table 5.

Surveillance reference gases provide a long term check on the calibration system used at Baring Head. During the period of this report, three surveillance gases, all with an I scale index of about 323 ppm, thus close to that of air, were successively used. The first gas, cylinder number 3757, was run from 23 December 1972 to and including 20 February 1974. The second gas, cylinder number 35224, was used from 20 February 1974 for the rest of the period of this report. The third gas, cylinder number 35355, was used from 10 September 75 for the rest of the period of this report. The surveillance gas was initially used as the transfer gas (gas "X") in the determination of the recorder scale factor, thus yielding sets of comparisons versus both the primary and the high span gas. This procedure terminated 5 March 1975, after which a working reference gas was used as the transfer gas. The surveillance gas then was determined only once on each test day, always versus the primary gas.

Table 5 reports chronologically the surveillance gas determinations for the period of this report. Column 1 lists the cylinder number of the higher ranking gas to which the surveillance gas, whose cylinder number is listed in column 2,

is compared. Column 3 lists the number of comparisons made between the two gases. Column 4 lists the Baring Head linear index, N, obtained for each set of comparisons copied from column 8 of Table 1. Column 5 lists the corresponding I scale index, copied from column 9 of Table 1. Columns 6 through 10 list weighted averages and standard deviations for periods of use of specific primary and high span gases. Column 11 lists the test day date of analysis.

IX. Average I scale indices of Baring Head surveillance references gases: Table 6.

This summary table shows separately the pre- and post-field surveillance gas I-scale indices determined at SIO and copied from columns 4 and 9 of Table 7. Also shown are period average I-scale indices determined at Baring Head and copied from column 9 of Table 5. The table offers indication of the stability of the gas mixture via the pre- and post-field values and the success of the method of computing I scale indices from Baring Head data using the curvature parameter, K.

Column 1 lists the inclusive dates of comparison at SIO or Baring Head. Column 2 lists the location where the data were obtained (BH = Baring Head). Column 3 lists the cylinder numbers of the primary and high span gases to which the surveillance gas was compared while at Baring Head. Column 4 lists the cylinder number of the surveillance gas. Column 5 lists the number of comparisons and column 6 the weighted average I scale index.

X. Scripps indices of Baring Head reference gases: Table 7.

This table provides a summary of calibration data obtained at the SIO calibration laboratory for all of the reference gases used at Baring Head. Column 1 lists the cylinder number and column 2 the type of use. Column 3 lists the pre-field number of comparisons at SIO and column 4 the pre-field I scale index. Column 5 lists the SIO reference gas report number from which the pre-field information is obtained. Columns 6 and 7 list the dates the cylinder left and returned to the SIO calibration laboratory. Column 8 lists the number of post-field comparisons and column 9, the post-field I scale index. Column 10 lists the gas cylinder pressure in pounds per square inch (P.S.I.) when returned to SIO, and column 11 lists the SIO reference gas report number from which the post-field information is obtained. Column 12 lists the total number of SIO comparisons, and column 13 lists the weighted average I scale index based on all SIO data.

XI. N and I scale indices of Baring Head working reference gases:

Table 8.

This table lists N and I scale indices of working reference gases determined on Baring Head test days. Column 1 lists the date of the test day. Column 2 lists the primary gas to which the working reference gases, listed in column 3, and again in column 10 for convenience, are compared. Cylinders bearing numbers preceded by NZIG contained gas mixtures prepared in New Zealand in used cylinders owned by an industrial gas firm in Wellington. Column 4 lists the number of comparisons in a single set on a test day. Columns 5 and 6 list the linear index, N, and the I-scale index computed using the curvature parameter, K, obtained for that particular test day. These data are compiled from columns 8 and 9 of Table 1. The total number of Baring Head comparisons for each working gas and the associated weighted average N and I scale indices are listed in columns 7, 8, and 9.

Data obtained on the 13 March 1974, and 9, 14 and 20 October 1975 test days are omitted as explained in section VI.

XII. Comparisons of Scripps and Baring Head I scale indices of working reference gases: Table 9.

This table and the next summarize the I scale indices obtained for each working reference gas and establishes the final indices by combining the data obtained at SIO and Baring Head. Final indices in Table 10 are used in Table 13 to calculate air indices.

Columns 1, 2, and 3 list cylinder number, the total number of comparisons and the weighted average I scale index determined at SIO for each gas. These latter two entries are copied from columns 12 and 13 of Table 7. Columns 4 and 5 list the total number of comparisons made at Baring Head (BH) and the associated weighted average N scale index. Column 6 lists the difference between the Baring Head N scale index and the SIO I scale index. Column 7 lists the weighted average I scale index of the Baring Head comparisons. Column 8 lists the difference between the Baring Head I scale index and the SIO I scale index for each working reference gas. Column 9 shows the date that use of the working reference gas began at Baring Head.

The working reference gases used at Baring Head have been split up into three groups - corresponding to the periods 14 December 1972 to 23 January 1974; 23 January 1974 to 5 March 1975, and 5 March 1975 to 31 December 1975. The first period corresponds to the time when the surveillance reference gas number 3757 was on-line at Baring Head. The other two periods are covered by surveillance reference gas number 35224. During the period September 1975 to December 1975, two surveillance gases were used (see supplement to this report, page 1).

The mean of the Baring Head I values of the working reference gases for each of the three periods was compared with the mean SIO values of the working reference gases for the same periods.

For the first period the discrepancy between the mean Baring Head and the mean SIO values was -0.11 ppm with a $\sigma = 0.08$ (12 cylinders).

For the second period the discrepancy between the mean Baring Head and the mean SIO values was -0.03 with a $\sigma = 0.07$ (10 cylinders).

For the third period, the discrepancy between the mean Baring Head and the mean SIO values was 0.01 with a σ of 0.09 (7 cylinders).

The good agreement of the Baring Head I values and the SIO Values of the working reference gases shows the validity of the quadratic fit system used to correct the Baring Head URAS1 data.

XIII. Combined Scripps and Baring Head I scale index values of working reference gases: Table 10.

Columns 1 to 4 are copied directly from columns 1 to 4 of Table 9. Column 5 lists the adjusted I scale index obtained at Baring Head calculated as described in section XII, above.

Column 6 lists the index difference between Baring Head and SIO comparing the values of columns 3 and 5. Column 7 lists the total combined number of comparisons at SIO and Baring Head.

Column 8 lists the weighted average of the working reference gas index obtained by combining the SIO and the Baring Head comparisons.

Column 9 lists the date that use of the working reference gas began.

The values listed in column 8 are adopted as the basis for computing air concentrations. These values reflect the value of the working reference when it was used as a reference gas at Baring Head. The measurements at Baring

Headings contribute to the overall calibration information for each gas by increasing considerably the number of analyses contributing to the final average for each gas.

XIV. Intervals of steady atmospheric CO₂ concentrations at Baring Head: Table 11.

Most of the atmospheric CO₂ data obtained at Baring Head is unacceptable for analysis of long term and seasonal trends in mid-southern latitudes because of near site contamination by man-made or vegetative local sources or because of loss of CO₂ by near site vegetative sinks of CO₂. To remove systematically the influence of such land effects, criteria were established for selecting steady air data intervals at the site. Air data during southerly winds at Baring Head have been found to be most acceptable because they are generally representative of large scale air masses of the mid-south-west Pacific. The air during southerly flow reaches the station from directly off the water. Air data during northerly, west and east winds were found to be systematically higher than data during southerly flow and more variable because the air had immediately before passed over land. Air data obtained during the occasionally southwest winds, west of 210°, were also rejected because the air probably had crossed over the Southern Island before reaching Baring Head.

Specifically, acceptable wind directions for further analysis of atmospheric CO₂ at Baring Head are those from 150° to 210°. This range accounts for 30% of all winds at Baring Head (private communication from J. Hickman New Zealand Meteorological Service, Wellington, 1976).

Another criterion of selection was based on the atmospheric CO₂ record itself: the selection of intervals of steady air data in which the hourly average L scale indices remained within a range of 0.3 ppm for 6 hours or more. Table 11 lists all of the periods when this criterion was satisfied, including some intervals of northerly winds. Column 1 lists the interval number assigned to southerly data only. Columns 2 through 5 list the starting and ending times and dates for each steady interval. The number of hours contained in each interval is listed in Column 6. Column 10 contains comments if data are missing during part of the interval, for example, due to instrument failure. Column 7 contains the preliminary calculation of the average hourly L scale index of the period and column 8 the correction of L to the 1959 SIO adjusted index scale (see Appendix 1). The data of column 8 are not used further in this report. They furnish, however, the only work-up of steady periods which fail to meet the wind direction criterion. These data reveal that the air data for these intervals are systematically higher than during southerly winds. Column 9 lists the wind speed and direction copied from daily aero weather reports of Wellington airport, 9 km northwest of Baring Head. The number on the left indicates average wind direction in 10's of degrees, e.g. 17 = 170°. The number on the right indicates average wind velocity in knots for the steady interval. The alphabetical character group indicates the rough direction of the wind on the

eight point compass scale, e.g. SW = South West.

XV. Reference gas information and average scale differences
for steady intervals at Baring Head: Table 12.

Steady intervals from Table 11 are recopied here for periods in which the wind direction was between 150° and 210°. The steady interval number is listed in column 1 and the start and end time and date of the interval in columns 2 to 5. Column 6 lists the I scale index difference of the high span and working gases based on preliminary pre-field values obtained at SIO. Column 7 lists the associated index of the working gas. These values were used with the preliminary weighted mean recorder scale factor of the period $(RSF)_p$, listed in column 4 of Table 13, to calculate the preliminary mean air index values L'_{air} , listed in column 7 of Table 13. The mean scale difference in column 8 was deduced from these earlier computations to avoid having to re-determine it from the original data. The mean scale difference was computed by the relation:

$$\overline{(S_{air} - S_{WG})} = \frac{(\overline{L'_{air} - I'_{WG}})}{(RSF)_p} \quad (19)$$

where L'_{air} = preliminary mean air index for the interval

I'_{WG} = preliminary I-scale index of the working gas

The combined post-field and pre-field values of the primary and high span indices on the I scale are listed in columns 9 and 10.

They are copied from column 13 of Table 7. They represent finally established indices except for high span cylinder number 10068 used from July 1975 through January 1976. The combined SIO and Baring Head working gas indices are listed in column 11, copied from column 8 of Table 10.

XVI. Mean CO₂ indices at Baring Head for steady intervals: Table 13.

This table contains the finally determined mean air CO₂ indices for the steady intervals at Baring Head during periods of southerly winds. Column 1 lists the steady interval number and columns 2 and 3, the date and number of hours that the steady interval lasted. Column 4 lists the preliminary weighted mean of the recorder scale function (RSF)_P used in the preliminary work-up of the air data as described in section XV above.

Column 5 lists finally determined values of the weighted mean recorder scale factor (RSF)_L calculated by equation (13). Column 6 lists values of the curvature factor, K_{WG}, used to calculate the final air indices on the I scale. Section VII above describes the manner in which K_{WG} was calculated and Table 4 summarizes the interval over which different interpolations of curvature factors apply. Column 7 lists the preliminary mean air indices, L'_{air}, obtained using an equation of the form of (12) except the preliminary values of the working reference gas I'_{WG} and weighted mean recorder scale factor (RSF)_P are used.

$$L' = I'_{WG} + (RSF)_P (S_{air} - S_{WG}) \quad (20)$$

Column 8 contains the mean air indices L , obtained using final values of the working reference gas and weighted mean recorder scale factor. Column 9 contains the final mean air indices for the steady intervals, I , calculated from L using equation (18).

Appendix 1 - Calibrations Equations

The CO₂ concentrations of reference gases and air listed in the tables are expressed in SIO 1956 index units. To re-express these data as mole fractions of CO₂ in total (dry) gas the following conversion equations are applied successively:

First, to convert from the 1956 index scale, I, to the 1959 SIO adjusted index, J:

$$J = 1.2186 I - 68.096 \quad (20)$$

This linear adjustment based on an SIO manometric calibration in 1959 provides a corrected index scale which corresponds to the mole fraction much more closely than the I-index scale. Published data before 1976 have been reported on the J-index scale. Secondly, further adjustments are made in accordance with an SIO calibration in 1974:

- 1) Correction for drift:

$$J_d = J - .00500 \Delta t \quad (21)$$

where Δt is number of months prior to July, 1974. This relation is extrapolated after July 1974 with Δt negative.

- 2) Correction for oxygen-carrier gas effect (applies to air data only):

$$J_{ox} = J_d \times 1.012006 \times [1.003157 - .002237 \times (P/1000) - .002522 \times (P/1000)^2] \quad (22)$$

where P is atmospheric pressure in mm Hg at the infrared analyzer location (for Baring Head and SIO P = 760, and the terms in brackets [] sum to unity).

Strictly speaking the oxygen correction applies to APC analyzers at SIO and Hawaii which have been calibrated with gases containing both air and N₂ as carrier gas. Pending such calibration at Baring Head equation (22) will be assumed to apply.

3) Conversion to 1974 manometric scale, X, in ppm:

$$X = \sum_{n=0}^3 C_n J_{ox}^n \quad (23)$$

where $C_0 = 76.582$, $C_1 = 0.584910$, $C_2 = 3.1151 \times 10^{-4}$, $C_3 = 7.3225 \times 10^{-7}$.

This method of successive adjustment permits further corrections if needed in the light of future calibrations. The I and J index scales are instrumental scales and remain fixed, but their relation to the mole fraction scale may be changed slightly later on.

Appendix 2 - Effect of Atmospheric Pressure on
the Atmospheric CO₂ Concentrations Measured at Baring Head

The sensitivity of the URAS 1 NDIR analyser, operated as a flow-through system, is directly proportional to ambient (atmospheric) pressure. As the atmospheric pressure increases the amount of CO₂ in the measurement cell of the NDIR increases, thus increasing the recorder scale reading measured by the instrument. The recorder scale factor of the URAS 1 is inversely proportional to its sensitivity by definition.

$$\therefore (\text{RSF})_L = \frac{F}{P}$$

where F is a proportionality factor, P is the atmospheric pressure, and $(\text{RSF})_L$ is defined in equation (13).

Let us consider a three day period where the atmospheric pressures are P₁, P₂ and P₃ at the time of three daily RSF measurements, $(\text{RSF})_{L1}$, $(\text{RSF})_{L2}$ and $(\text{RSF})_{L3}$. L scale indices obtained at times between that of $(\text{RSF})_{L1}$ and $(\text{RSF})_{L2}$ are calculated routinely at Baring Head by the averaging equation.

$$L = I_{\text{WG}} + \frac{(\text{RSF}_{L1} + \text{RSF}_{L2})}{2} \cdot (S - S_{\text{WG}}) \quad (24)$$

(cf. equation 12).

In order to calculate the effect on L caused by using recorder scale factors taken at different pressures it is necessary to convert each of the $(\text{RSF})_L$'s to the same pressure. Because of the inverse pressure proportionality between $(\text{RSF})_L$ and atmospheric

pressure, $(RSF)_{L1}$ and $(RSF)_{L3}$ can be converted to apply to the same pressure as that of $(RSF)_{L2}$ by multiplying by P_1/P_2 and P_3/P_2 , respectively. Thus, equation (24) corrected for atmospheric variations becomes:

$$L + \delta L = I_{WG} + \frac{(RSF_{L1} \cdot \frac{P_1}{P_2} + RSF_{L2})}{2} \cdot (S - S_{WG}) \quad (25)$$

Subtracting (24) from (23) gives the error in L, δL , caused by neglecting atmospheric pressure changes, i.e.:

$$\delta L = (S - S_{WG}) \cdot \frac{(P_2 - P_1)}{2P_2} \cdot (RSF)_{L1} \quad (26)$$

The atmospheric pressure at Baring Head is typically 1000 ± 50 millibar and equation (25) can be well approximated by

$$\delta L = (S - S_{WG}) \frac{(P_2 - P_1)}{2000} \cdot RSF_{L1} \quad (27)$$

An identical argument shows that

$$\delta L = (S - S_{WG}) \frac{(P_2 - P_3)}{2000} \cdot RSF_{L3} \quad (28)$$

From December 1972 to December 1973 $(RSF)_L$'s were measured at Baring Head every 12 hours. Hourly atmospheric pressure records taken at Wellington airport were examined to find the pressure difference $(P_2 - P_1)$ and $(P_2 - P_3)$ over each of the 12 hour periods. During steady intervals at Baring Head δL was calculated, with (26) and (27), using these pressure differences together with typical

scale differences and $(RSF)_L$'s for the intervals. For the inclusive steady intervals from December 1972 to December 1973 the greatest δL found was .02 ppm and was typically .005 ppm.

For the period January 1974 to December 1975 $(RSF)_L$'s were calculated once daily and δL was calculated for $(P_2 - P_1)$ and $(P_2 - P_3)$ as changes over the 24-hour periods during steady intervals. The highest δL was found to be .03 ppm on the 16 June 1975 when a 20 millibar change in pressure occurred in 24 hours. δL was typically .01 ppm from January 1974 to December 1975. Due to the small nature of the effect it was decided not to correct the Baring Head air data for atmospheric pressure.

Table 1 Reference Gas Comparisons at Baring Head

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Comparisons	Recorder Scale Factor	K	N Scale Index Difference	N Scale Index	I Scale Index	Sheet No.	Date of Analysis
4293	10068	7.77	10	2.639	0.001894	-	-	-	1	23 DEC 72
4293	3757	3.35	14	2.639	0.001894	8.84	323.99	323.18		
10068	3757	-4.34	11	2.639	0.001894	-11.45	323.13	323.32		
4293	11080	3.87	10	2.639	0.001894	10.21	324.36	324.56		
4293	10068	7.77	11	2.639	0.001894	-	-	-		
4293	10068	7.25	11	2.828	0.003804	-	-	-	2	31 DEC 72
4293	3757	3.05	10	2.828	0.003804	8.63	322.78	323.17		
10068	3757	-4.15	11	2.828	0.003804	-11.74	322.84	323.24		
4293	11080	3.54	10	2.828	0.003804	10.01	324.16	324.56		
4293	181	3.84	9	2.828	0.003804	10.86	325.01	325.40		
4293	10068	7.22	10	2.828	0.003804	-	-	-		
4293	10068	6.78	8	2.996	0.001811	-	-	-	3	20 JAN 73
4293	3757	3.02	8	2.996	0.001811	9.05	323.20	323.38		
10068	3757	-3.84	9	2.996	0.001811	-11.50	323.08	323.26		
4293	181	3.62	8	2.996	0.001811	10.84	324.99	325.18		
4293	10068	6.45 #	9	2.996	0.001811	-	-	-		
4293	10068	9.54	10	2.151	0.002403	-	-	-	4	9 FEB 73
4293	3757	4.05	8	2.151	0.002403	8.71	322.86	323.11		
10068	3757	-5.40	8	2.151	0.002403	-11.61	322.97	323.21		
4293	181	5.14	9	2.151	0.002403	11.05	325.20	325.45		
4293	11085	5.31	8	2.151	0.002403	11.42	325.57	325.82		
4293	10068	9.50	8	2.151	0.002403	-	-	-		
4293	10068	8.96	9	2.298	0.004524	-	-	-	6	8 MAR 73
4293	3757	3.74	11	2.298	0.004524	8.60	322.75	323.21		
10068	3757	-5.09	8	2.298	0.004524	-11.69	322.89	323.36		
4293	11085	4.86	8	2.298	0.004524	11.17	325.32	325.79		
4293	10068	8.88	8	2.298	0.004524	-	-	-		
4293	10068	8.90	9	2.298	0.004477	-	-	-	7	22 MAR 73
4293	3757	3.74	9	2.298	0.004477	8.59	322.74	323.20		
10068	3757	-5.13	8	2.298	0.004477	-11.79	322.79	323.25		
4293	11085	4.94	9	2.298	0.004477	11.36	325.51	325.97		
4293	4273	3.65	9	2.298	0.004477	8.39	322.54	323.00		
4293	10068	8.90	8	2.298	0.004477	-	-	-		

Table 1 Reference Gas Comparisons at Baring Head, Con't. (2)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Comparisons	Recorder Scale Factor	K	N Scale Index Difference	N Scale Index	I Scale Index	Sheet No.	Date of Analysis
4293	10068	7.94	10	2.584	0.002495	-	-	-	8	27 APR 73
4293	3757	3.44	7	2.584	0.002495	8.90	323.05	323.30		
10068	3757	-4.51	8	2.584	0.002495	-11.66	322.92	323.18		
4293	4273	3.34	8	2.584	0.002495	8.64	322.79	323.05		
4293	1008	1.57	5	2.584	0.002495	4.06	318.21	318.38		
4293	10068	7.77	5	2.584	0.002495	-	-	-		
4293	10068	9.41	8	2.245	0.000638	-	-	-	9	21 MAY 73
4293	3757	4.04	9	2.245	0.000638	9.07	323.22	323.28		
10068	3757	-5.12	7	2.245	0.000638	-11.50	323.08	323.15		
4293	1008	1.81	8	2.245	0.000638	4.07	318.22	318.26		
4293	10068	9.05	8	2.245	0.000638	-	-	-		
4293	10068	9.53	9	2.171	0.001568	-	-	-	10	13 JUN 73
4293	3757	4.11	9	2.171	0.001568	8.91	323.06	323.22		
10068	3757	-5.17	7	2.171	0.001568	-11.23	323.35	323.52		
4293	1008	1.94	8	2.171	0.001568	4.21	318.36	318.47		
4293	10067	1.61	8	2.171	0.001568	3.49	317.64	317.73		
4293	10068	9.40	8	2.171	0.001568	-	-	-		
4293	10068	9.39	8	2.195	0.002926	-	-	-	11	28 JUN 73
4293	3757	3.99	8	2.195	0.002926	8.75	322.90	323.20		
10068	3757	-5.28	8	2.195	0.002926	-11.59	322.99	323.29		
4293	10067	1.57	8	2.195	0.002926	3.46	317.61	317.79		
4293	10068	9.27	8	2.195	0.002926	-	-	-		
4293	18206	8.34	10	2.157	-0.000114	-	-	-	12	13 JUL 73
4293	3757	4.19	7	2.157	-0.000114	9.04	323.19	323.18		
18206	3757	-4.00	11	2.157	-0.000114	-8.62	323.32	323.31		
4293	10067	1.71	9	2.157	-0.000114	3.68	317.83	317.82		
4293	2403	1.96	8	2.157	-0.000114	4.22	318.37	318.36		
4293	18206	8.18	8	2.157	-0.000114	-	-	-		
4293	18206	9.13	8	1.972	0.000531	-	-	-	13	2 AUG 73
4293	3757	4.54	8	1.972	0.000531	8.95	323.10	323.14		
18206	3757	-4.48	8	1.972	0.000531	-8.84	323.10	323.15		
4293	2403	2.15	9	1.972	0.000531	4.24	318.39	318.42		
4293	18206	8.92	8	1.972	0.000531	-	-	-		

Table 1 Reference Gas Comparisons at Baring Head, Con't. (3)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Compara- sons	Recorder Scale Factor	K	N Scale Index Difference	N Scale Index	I Scale Index	Sheet No.	Date of Analysis
4293	18206	8.96	8	2.093	0.000467	-	323.22	323.25	14	16 AUG 73
4293	3757	4.33	9	2.093	0.000467	9.07	323.10	323.13		
18206	3757	-4.22	8	2.093	0.000467	-8.84	318.31	318.33		
4293	2403	1.99	7	2.093	0.000467	4.16	317.63	317.66		
4293	1004	1.66	7	2.093	0.000467	-3.48	-	-		
4293	18206	8.44	8	2.093	0.000467	-	-	-		
4293	18206	8.91	9	2.064	0.001774	-	323.08	323.22	15	10 SEP 73
4293	3757	4.32	8	2.064	0.001774	8.93	323.10	323.24		
18206	3757	-4.28	8	2.064	0.001774	-8.84	317.70	317.79		
4293	1004	1.72	7	2.064	0.001774	3.55	-	-		
4293	18206	8.63	8	2.064	0.001774	-	-	-		
4293	18206	9.07	7	1.976	0.003765	-	322.84	323.14	16	26 SEP 73
4293	3757	4.40	7	1.976	0.003765	8.69	323.06	323.36		
18206	3757	-4.49	7	1.976	0.003765	-8.88	317.90	318.11		
4293	1004	1.90	6	1.976	0.003765	3.75	318.01	318.22		
4293	35354	1.96	8	1.976	0.003765	3.86	-	-		
4293	18206	9.05	7	1.976	0.003765	-	-	-		
4293	18206	8.56	7	2.094	0.004580	-	322.96	323.32	17	9 NOV 73
4293	3757	4.21	7	2.094	0.004580	8.81	322.99	323.35		
18206	3757	-4.27	8	2.094	0.004580	-8.95	317.83	318.08		
4293	35354	1.76	8	2.094	0.004580	3.68	317.65	317.89		
4293	35356	1.67	8	2.094	0.004580	3.50	-	-		
4293	18206	8.44	7	2.094	0.004580	-	-	-		
4293	18206	8.17	7	2.207	0.006098	-	322.77	323.25	18	20 DEC 73
4293	3757	3.91	7	2.207	0.006098	8.62	323.02	323.50		
18206	3757	-4.04	6	2.207	0.006098	-8.92	317.77	318.11		
4293	35356	1.64	6	2.207	0.006098	3.62	317.57	317.89		
4293	35357	1.55	8	2.207	0.006098	3.42	-	-		
4293	18206	8.05	7	2.207	0.006098	-	-	-		
4293	18206	7.61	7	2.364	0.009002	-	322.47	323.18	19	23 JAN 74
4293	3757	3.52	5	2.364	0.009002	8.32	322.60	323.31		
18206	3757	-3.95	8	2.364	0.009002	-9.34	317.53	318.01		
4293	35357	1.43	10	2.364	0.009002	3.38	315.91	316.20		
4293	34819	0.74	7	2.364	0.009002	1.76	-	-		
4293	18206	7.48	7	2.364	0.009002	-	-	-		

Table 1 Reference Gas Comparisons at Baring Head, Cont'd. (4)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	K	N Scale Index Difference	N Scale Index	I Scale Index	Sheet No.	Date of Analysis
4293	3757	2.73	10	2.864	0.014560	7.82	321.97	323.12	20	20 FEB 74
18206	3757	-3.41	8	2.864	0.014560	-9.75	322.19	323.34		
4293	18206	6.26	12	2.864	0.014560	-	-	-		
4293	34819	0.61	9	2.864	0.014560	1.74	315.89	316.39		
4293	2418	5.80	9	2.864	0.014560	-	-	-		
4293	35353	3.63 ?	6	1.853	-0.007716	6.72	320.87	320.75	21	13 MAR 74
4293	3757	5.00 ?	4	1.853	-0.007716	-	-	-		
3757	35353	-1.16 ?	6	1.853	-0.007716	-2.15	321.01	320.90		
3757	34819	-3.45 ?	5	1.853	-0.007716	-6.39	316.77	316.64		
4293	34819	1.40 ?	5	1.853	-0.007716	2.59	316.74	316.62		
4293	2418	9.34	8	1.788	0.007364	-	-	-	22	9 MAY 74
4293	35224	4.79	7	1.788	0.007364	8.57	322.72	323.22		
2418	35224	-4.49	8	1.788	0.007364	-8.02	322.73	323.23		
4293	35353	3.46	8	1.788	0.007364	6.19	320.34	320.83		
4293	35343	3.59	10	1.788	0.007364	6.43	320.58	321.07		
4293	2418	9.24	10	1.788	0.007364	-	-	-		
4293	2418	8.67	8	1.936	0.007057	-	-	-	23	25 JUN 74
4293	35224	4.42	7	1.936	0.007057	8.56	322.71	323.19		
2418	35224	-4.10	8	1.936	0.007057	-7.94	322.81	323.29		
4293	35343	3.40	9	1.936	0.007057	6.58	320.73	321.21		
4293	35333	2.96	8	1.936	0.007057	5.72	319.87	320.33		
4293	2418	8.54	12	1.936	0.007057	-	-	-		
4293	2418	8.53	9	1.962	0.010697	-	-	-	24	14 JUL 74
4293	35224	4.34	6	1.962	0.010697	8.52	322.67	323.40		
2418	35224	-4.14	8	1.962	0.010697	-8.12	322.63	323.36		
4293	35333	2.83	7	1.962	0.010697	5.56	319.71	320.40		
4293	35254	3.24	7	1.962	0.010697	6.36	320.51	321.23		
4293	2418	8.41	14	1.962	0.010697	-	-	-		
4293	2418	8.67	15	1.921	0.001743	-	-	-	25	20 AUG 74
4293	35224	4.66	9	1.921	0.001743	8.96	323.11	323.22		
2418	35224	-3.92	8	1.921	0.001743	-7.54	323.21	323.33		
4293	35254	3.75	9	1.921	0.001743	7.20	321.35	321.47		
4293	34965	3.70	10	1.921	0.001743	7.11	321.26	321.38		
4293	2418	8.61	9	1.921	0.001743	-	-	-		
18208	2418	6.76	11	1.921	0.001743	-	-	-		

Table 1 Reference Gas Comparisons at Baring Head, Con't. (5)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Comparisons	Recorder Scale Factor	K	N Scale Index Difference	N Scale Index	I Scale Index	Sheet No.	Date of Analysis
18208	2418	5.50	31	2.369	0.004001	-	-	-	26	23 SEP 74
18208	35224	2.19	9	2.369	0.004001	5.18	322.97	323.14		
2418	35224	-3.23	10	2.369	0.004001	-7.65	323.10	323.26		
18208	34965	1.51	8	2.369	0.004001	3.58	321.37	321.51		
18208	1008	0.67	9	2.369	0.004001	1.58	319.37	319.44		
18208	2418	5.43	8	2.369	0.004001	-	-	-		
18208	34891	4.40	7	2.905	0.003523	-	-	-	27	23 OCT 74
18208	35224	1.81	7	2.905	0.003523	5.27	323.06	323.20		
18208	2418	4.46	10	2.905	0.003523	-	-	-		
18208	35224	1.77	19	2.905	0.003523	5.15	322.94	323.08		
18208	NZIG1	1.68	9	2.905	0.003523	4.89	322.68	322.81		
34891	35224	-2.48	10	2.905	0.003523	-7.20	323.22	323.36		
18208	34891	4.32	7	2.949	0.007441	-	-	-	28	5 NOV 74
34891	35224	-2.50	9	2.949	0.007441	-7.37	323.05	323.34		
18208	35224	1.72	6	2.949	0.007441	5.06	322.85	323.14		
18208	1008	0.49	7	2.949	0.007441	1.43	319.22	319.35		
18208	4284	0.66	8	2.949	0.007441	1.96	319.74	319.91		
18208	NZIG1	1.64	9	2.949	0.007441	4.83	322.62	322.91		
18208	34891	4.30	8	2.949	0.007441	-	-	-		
18208	34891	4.26	8	3.001	0.005567	-	-	-	29	13 DEC 74
34891	35224	-2.45	8	3.001	0.005567	-7.35	323.07	323.29		
18208	35224	1.71	10	3.001	0.005567	5.12	322.91	323.13		
18208	4284	0.66	8	3.001	0.005567	1.99	319.78	319.90		
18208	6060	0.34	8	3.001	0.005567	1.01	318.80	318.87		
18208	NZIG1	1.53	8	3.001	0.005567	4.61	322.40	322.61		
18208	NZIG2	0.99	8	3.001	0.005567	2.98	320.77	320.94		
18208	34891	4.22	7	3.001	0.005567	-	-	-		
18208	6060	0.33	3	3.001	0.005567	1.00	318.79	318.86		
18208	1008	0.58	3	3.001	0.005567	1.75	319.54	319.65		
18208	18207	0.80	4	3.001	0.005567	2.40	320.19	320.33		
18208	34891	4.41	7	2.868	0.001103	-	-	-	30	24 JAN 75
34891	35224	-2.53	9	2.868	0.001103	-7.25	323.17	323.21		
18208	35224	1.86	7	2.868	0.001103	5.33	323.12	323.16		
18208	6060	0.40	7	2.868	0.001103	1.15	318.94	318.95		
18208	10067	0.41	9	2.868	0.001103	1.16	318.95	318.97		
18208	NZIG1	1.67	10	2.868	0.001103	4.79	322.58	322.62		
18208	NZIG2	1.14	12	2.868	0.001103	3.26	321.05	321.09		
18208	34891	4.41	9	2.868	0.001103	-	-	-		

Table 1 Reference Gas Comparisons at Baring Head, Con't. (6)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Compara- sons	Recorder Scale Factor	K	N Scale		I Scale Index	Sheet No.	Date of Analysis
						Index Difference	Index			
18208	34891	6.20	7	2.056	0.005858	-	-	-	31	5 MAR 75
34891	35224	-3.60	8	2.056	0.005858	-7.40	323.02	323.25		
18208	35224	2.49	9	2.056	0.005858	5.13	322.92	323.15		
18208	10067	0.63	8	2.056	0.005858	1.28	319.07	319.17		
18208	18207	1.11	8	2.056	0.005858	2.27	320.06	320.21		
18208	NZIG1	2.27	8	2.056	0.005858	4.66	322.45	322.68		
18208	NZIG2	1.57	8	2.056	0.005858	3.23	321.02	321.20		
18208	34891	6.14	8	2.056	0.005858	-	-	-		
18208	34391	6.59	7	1.925	0.001759	-	-	-	32	8 APR 75
34891	18207	-5.33	9	1.925	0.001759	-10.26	320.16	320.21		
18208	18207	1.22	8	1.925	0.001759	2.35	320.14	320.18		
18208	18207	1.23	8	1.925	0.001759	2.37	320.16	320.20		
18208	35224	2.72	9	1.925	0.001759	5.23	323.02	323.09		
18208	39307	0.46	6	1.925	0.001759	0.88	318.67	318.69		
18208	NZIG1	2.40	7	1.925	0.001759	4.62	322.41	322.48		
18208	NZIG2	1.58	6	1.925	0.001759	3.05	320.84	320.89		
18208	34891	6.54	7	1.925	0.001759	-	-	-		
18208	39307	0.51	11	2.000	0.002878	1.03	318.82	318.85	33	7 MAY 75
34891	39307	-5.95	9	2.000	0.002878	-11.90	318.52	318.54		
18208	34891	6.38	6	2.000	0.002878	-	-	-		
18208	34891	6.32	5	2.000	0.002878	-	-	-		
18208	35224	2.56	6	2.000	0.002878	5.12	322.91	323.02		
18208	39305	6.97	7	2.000	0.002878	-	-	-		
18208	NZIG2	1.45	7	2.000	0.002878	2.90	320.69	320.77		
18208	NZIG1	2.44	14	2.000	0.002878	4.89	322.68	322.79		
18208	NZIG3	0.64	8	2.000	0.002878	1.29	319.08	319.12		
18208	39305	8.28	9	1.816	0.001311	-	-	-	34	15 MAY 75
39305	39307	-7.31	9	1.816	0.001311	-13.27	318.60	318.62		
18208	39307	0.52	8	1.816	0.001311	0.94	318.73	318.75		
18208	39307	0.70	12	1.816	0.001311	1.28	319.07	319.09		
18208	35224	2.91	10	1.816	0.001311	5.29	323.08	323.14		
18208	NZIG3	0.82	10	1.816	0.001311	1.49	319.28	319.30		
18208	NZIG1	2.75	6	1.816	0.001311	4.99	322.78	322.84		
18208	NZIG3	0.77	14	1.816	0.001311	1.39	319.18	319.21		
18208	NZIG2	1.87	8	1.816	0.001311	3.39	321.18	321.23		
18208	39305	7.71	12	1.816	0.001311	-	-	-		

Table 1 Reference Gas Comparisons at Baring Head, Con't. (7)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Compara- sons	Recorder Scale Factor	K	N Scale Index Difference	N Scale Index	I Scale Index	Sheet No.	Date of Analysis
18208	39305	8.52	8	1.680	0.006481	-	319.32	319.45	35	3 JUN 75
39305	NZIG3	-7.47	7	1.680	0.006481	-12.55	319.45	319.59		
18208	NZIG3	0.99	7	1.680	0.006481	1.66	319.47	319.61		
18208	NZIG3	1.00	8	1.680	0.006481	1.68	322.90	323.21		
18208	35224	3.04	8	1.680	0.006481	5.11	320.70	320.92		
18208	4296	1.73	15	1.680	0.006481	2.91	318.66	318.74		
18208	39307	0.51	10	1.680	0.006481	0.87	-	-		
18208	39305	8.22	7	1.680	0.006481	-	-	-		
18208	39305	9.56	8	1.478	0.005441	-	-	-	36	26 JUN 75
39305	4296	-7.34	5	1.478	0.005441	-10.85	321.02	321.22		
18208	4296	2.13	8	1.478	0.005441	3.15	320.94	321.14		
39305	4296	-7.23	13	1.478	0.005441	-10.69	321.18	321.38		
18208	4296	2.26	10	1.478	0.005441	3.35	321.14	321.34		
18208	35224	3.32	12	1.478	0.005441	4.92	322.71	322.96		
18208	11080	-0.91	22	1.478	0.005441	-1.35	316.44	316.31		
18208	39305	9.55	9	1.478	0.005441	-	-	-		
18208	11080	-0.89	8	1.507	0.004089	-1.35	316.44	316.35	37	3 JUL 75
39305	11080	-10.29	10	1.507	0.004089	-15.51	316.36	316.26		
18208	39305	9.34	8	1.507	0.004089	-	-	-		
18208	39305	9.31	12	1.507	0.004089	-	-	-		
18208	35224	3.41	11	1.507	0.004089	5.14	322.93	323.12		
18208	10068	14.89	9	1.507	0.004089	-	-	-		
10068	11080	-15.60	13	1.507	0.004089	-23.51	317.15	317.11		
18208	10068	17.80	8	1.291	0.004539	-	-	-	38	2 SEP 75
10068	4283	-18.95	7	1.291	0.004539	-24.46	316.20	315.99		
18208	4283	-1.37	5	1.291	0.004539	-1.77	316.02	315.80		
18208	4283	-1.31	8	1.291	0.004539	-1.70	316.09	315.88		
18208	35224	3.84	10	1.291	0.004539	4.96	322.75	323.17		
18208	11080	-0.84	8	1.291	0.004539	-1.08	316.71	316.58		
18208	NZIG2	2.15	8	1.291	0.004539	2.78	320.57	320.84		
18208	10068	16.85	5	1.291	0.004539	-	-	-		
18208	10068	13.92	10	1.589	0.007511	-	-	-	39	10 SEP 75
10068	4283	-14.95	11	1.589	0.007511	-23.76	316.90	316.71		
18208	4283	-0.96	8	1.589	0.007511	-1.53	316.26	315.91		
18208	35224	2.82	8	1.589	0.007511	4.48	322.27	322.95		
18208	35355	2.54	10	1.589	0.007511	4.04	321.83	322.47		
18208	NZIG3	0.92	8	1.589	0.007511	1.47	319.26	319.54		
18208	NZIG2	1.80	10	1.589	0.007511	2.87	320.66	321.15		
18208	NZIG1	2.79	8	1.589	0.007511	4.44	322.23	322.91		
18208	10068	14.82	8	1.589	0.007511	-	-	-		

Table 1 Reference Gas Comparisons at Haring Head, Con't. (8)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Compara- sons	Recorder Scale Factor	K	N Scale Index Difference	M Scale Index	I Scale Index	Sheet No.	Date of Analysis
18208	10068	12.63 #	6	1.894	0.009355	-	320.75	321.40	40	22 SEP 75
18208	NZIG2	1.56	4	1.894	0.009355	2.96	319.36	319.74		
18208	NZIG3	0.83	7	1.894	0.009355	1.57	321.91	322.74		
18208	NZIG1	2.17	4	1.894	0.009355	4.12	322.11	322.97		
18208	35224	2.28	6	1.894	0.009355	4.32	321.72	322.52		
18208	35355	2.07	6	1.894	0.009355	3.93	-	-		
18208	10068	12.07	6	1.894	0.009355	-	-	-		
18208	NZIG2	1.84 ?	10	2.107	0.009921	3.89	321.68	322.53	41	9 OCT 75
10068	NZIG2	-9.63 ?#	7	2.107	0.009921	-20.29	320.37	321.00		
18208	35224	2.04 ?	9	2.107	0.009921	4.30	322.09	323.00		
18208	35355	1.80 ?	10	2.107	0.009921	3.80	321.59	322.43		
18208	NZIG1	1.89 ?	8	2.107	0.009921	3.98	321.77	322.63		
18208	NZIG4	0.59 ?	15	2.107	0.009921	1.24	319.03	319.36		
18208	10068	11.86 ?#	14	2.107	0.009921	-	-	-		
18208	10068	10.85 ?	6	2.107	0.009921	-	-	-		
18208	10068	10.86 ?	6	2.107	0.009921	-	-	-		
6067	10068	13.29 ?	9	2.120	0.010347	-	-	-	42	14 OCT 75
10068	NZIG1	-8.92 ?#	9	2.120	0.010347	-18.91	321.75	323.72		
10068	NZIG4	-10.32 ?#	6	2.120	0.010347	-21.89	318.77	320.44		
6067	NZIG4	2.65 ?	9	2.120	0.010347	5.62	318.11	319.67		
6067	NZIG1	3.95 ?	7	2.120	0.010347	8.37	320.86	322.77		
6067	35224	4.00 ?	8	2.120	0.010347	8.48	320.97	322.88		
6067	19208	1.88 ?	10	2.120	0.010347	-	-	-		
35355	35355	3.80 ?	7	2.120	0.010347	8.06	320.55	322.42		
6067	10068	13.07 ?#	7	2.120	0.010347	-	-	-		
6067	18208	2.27 ?	16	2.232	0.010186	5.08	317.57	317.81	43	20 OCT 75
35355	6067	-4.51 ?#	7	2.232	0.010186	-	-	-		
35355	18208	-2.09 ?	7	2.232	0.010186	-4.67	317.61	317.85		
35355	10068	10.57 ?	8	2.232	0.010186	-	-	-		
35355	7362	8.22 ?	9	2.232	0.010186	-	-	-		
35355	3758	-3.21 ?	10	2.232	0.010186	-7.16	315.12	315.32		
35355	6067	-4.41 ?	6	2.232	0.010186	-	-	-		
18208	10068	13.90	11	1.645	0.012270	-	-	-	44	25 OCT 75
18208	6071	0.79	8	1.645	0.012270	1.31	319.10	319.55		
18208	35355	2.21	8	1.645	0.012270	3.64	321.43	322.47		
18208	35224	2.49	8	1.645	0.012270	4.09	321.88	323.01		
18208	NZIG4	0.86	8	1.645	0.012270	1.41	319.20	319.69		
18208	10068	13.66 #	6	1.645	0.012270	-	-	-		

Table 1 Reference Gas Comparisons at Baring Head, Con't. (9)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Comparisons	Recorder Scale Factor	K	N Scale Index Difference	N Scale Index	I Scale Index	Sheet No.	Date of Analysis
18208	10068	14.01	7	1.640	0.012997	-	-	-	45	4 NOV 75
10068	6071	-13.19	9	1.640	0.012997	-21.64	319.02	319.48		
18208	6071	0.76	12	1.640	0.012997	1.24	319.03	319.50		
18208	35224	2.52	14	1.640	0.012997	4.13	321.92	323.14		
18208	NZIG4	0.83	6	1.640	0.012997	1.37	319.16	319.67		
18208	10068	13.85	6	1.640	0.012997	-	-	-		
18208	10068	14.44	9	1.591	0.011571	-	-	-	46	12 NOV 75
10068	6071	-13.53	9	1.591	0.011571	-21.53	319.13	319.56		
18208	6071	0.81	12	1.591	0.011571	1.29	319.08	319.49		
18208	35224	2.60	10	1.591	0.011571	4.14	321.93	323.00		
18208	35355	2.32	8	1.591	0.011571	3.70	321.49	322.47		
18208	NZIG4	0.84	8	1.591	0.011571	1.33	319.12	319.55		
18208	10068	14.35	13	1.591	0.011571	-	-	-		
18208	10068	13.96	7	1.642	0.010644	-	-	-	47	19 NOV 75
10068	6071	-13.04	10	1.642	0.010644	-21.43	319.23	319.65		
18208	6071	0.83	6	1.642	0.010644	1.37	319.16	319.55		
18208	35224	2.57	13	1.642	0.010644	4.22	322.01	322.99		
18208	35355	2.32	8	1.642	0.010644	3.81	321.60	322.51		
18208	NZIG4	0.84	14	1.642	0.010644	1.37	319.16	319.56		
18208	10068	13.48	13	1.642	0.010644	-	-	-		
18208	10068	14.34	13	1.593	0.011546	-	-	-	48	26 NOV 75
10068	6071	-13.54	7	1.593	0.011546	-21.57	319.09	319.51		
18208	6071	0.83	10	1.593	0.011546	1.33	319.12	319.55		
18208	35224	2.61	8	1.593	0.011546	4.16	321.95	323.02		
18208	35355	2.32	18	1.593	0.011546	3.70	321.49	322.47		
18208	NZIG4	0.86	10	1.593	0.011546	1.37	319.16	319.60		
18208	10068	14.11	7	1.593	0.011546	-	-	-		
18208	10068	14.78	11	1.545	0.012523	-	-	-	49	11 DEC 75
10068	6071	-13.94	7	1.545	0.012523	-21.55	319.11	319.59		
18208	6071	0.88	10	1.545	0.012523	1.37	319.16	319.65		
18208	35224	2.64	11	1.545	0.012523	4.08	321.87	323.03		
18208	35355	2.35	10	1.545	0.012523	3.64	321.43	322.50		
18208	6081	1.73	13	1.545	0.012523	-	-	-		
18208	39345	0.00*	10	1.545	0.012523	0.00*	317.79	317.79		
18208	NZIG4	0.78	13	1.545	0.012523	1.21	319.00	319.43		
18208	10068	14.00	6	1.545	0.012523	-	-	-		

Table 1 Reference Gas Comparisons at Baring Head, Cont. (10)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Comparisons	Recorder Scale Factor	K	N Scale Index Difference	N Scale Index	I Scale Index	Sheet No.	Date of Analysis
18208	10068	15.42	4	1.483	0.012326	-	317.79	-	50	22 DEC 75
10068	39345	-15.42	4	1.483	0.012326	-22.87	317.79	317.79		
18208	39345	0.00*	3	1.483	0.012326	0.00*	317.79	317.79		
18208	35224	2.76	6	1.483	0.012326	4.09	321.88	323.02		
18208	35355	2.44	8	1.483	0.012326	3.62	321.41	322.46		
18208	NZIG4	0.84	6	1.483	0.012326	1.25	319.04	319.48		
18208	10068	14.80 #	4	1.483	0.012326	-	-	-		
18208	10068	13.85	8	1.657	0.012073	-	317.47	317.34	51	4 JAN 76
10068	39345	-14.00	6	1.657	0.012073	-23.19	317.79	317.79		
18208	39345	0.00*	4	1.657	0.012073	0.00*	317.92	323.03		
18208	35224	2.49	11	1.657	0.012073	4.13	321.92	323.03		
18208	35355	2.21	8	1.657	0.012073	3.65	321.44	322.47		
18208	NZIG4	0.79	7	1.657	0.012073	1.31	319.10	319.55		
18208	10068	13.69	10	1.657	0.012073	-	-	-		

Table 2. Recorder Scale Factors of Baring Head CO₂ Project

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Comparisons	N Scale Index Difference	Recorder Scale Factor		Date of Analysis
					Single Set	Weighted Average	
4293	10068	7.770	10	20.43	2.629	1	23 DEC 72
4293	3757	3.350	14				
10068	3757	-4.340	11	20.43	2.657		
4293	10068	7.690*	11*	20.43	2.629		
4293	10068	7.770	11				2.639
			32				
4293	10068	7.250	11	20.43	2.818	2	31 DEC 72
4293	3757	3.050	10				
10068	3757	-4.150	11	20.43	2.837		
4293	10068	7.200*	10*	20.43	2.830		
4293	10068	7.220	10				2.828
			31				
4293	10068	6.780	8	20.43	3.013	3	20 JAN 73
4293	3757	3.020	8				
10068	3757	-3.840	9	20.43	2.978		
4293	10068	6.860*	8*	20.43	3.167#		
4293	10068	6.450	9				2.996
			16				
4293	10068	9.540	10	20.43	2.142	4	9 FEB 73
4293	3757	4.050	8				
10068	3757	-5.400	8	20.43	2.162		
4293	10068	9.450*	8*	20.43	2.151		
4293	10068	9.500	8				2.151
			26				

Table 2. Recorder Scale Factors of Baring Head CO Project, Con't. (2)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Comparisons	N Scale Index Difference	Recorder Scale Factor		Sheet No.	Date of Analysis
					Single Set	Weighted Average		
4293	10068	8.961	9	20.43	2.280		6	8 MAR 73
4293	3757	3.741	11					
10068	3757	-5.088	8	20.43	2.314			
4293	10068	8.829*	8*	20.43	2.302			
4293	10068	6.875	8			2.298		
			25					
4293	10068	8.899	9	20.43	2.296		7	22 MAR 73
4293	3757	3.739	9					
10068	3757	-5.131	8	20.43	2.303			
4293	10068	8.870*	8*	20.43	2.295			
4293	10068	8.900	8			2.298		
			25					
4293	10068	7.945	10	20.43	2.571		8	27 APR 73
4293	3757	3.443	7					
10068	3757	-4.512	8	20.43	2.568			
4293	10068	7.955*	7*	20.43	2.629			
4293	10068	7.770	5			2.584		
			22					
4293	10068	9.412	8	20.43	2.171*		9	21 MAY 73
4293	3757	4.039	9					
10068	3757	-5.121	7	20.43	2.230			
4293	10068	9.160*	7*	20.43	2.257			
4293	10068	9.050	8			2.245		
			15					

Table 2. Recorder Scale Factors of Baring Head CO₂ Project, Con't. (3)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Comparisons	N Scale		Recorder Scale Factor		Date of Analysis
				Index Difference	Weighted Average	Single Set	Sheet No.	
4293	10068	9.528	9	20.43		2.144	10	13 JUN 73
4293	3757	4.106	9					
10068	3757	-5.171	7	20.43		2.202		
4293	10068	9.277*	7*	20.43		2.173		
4293	10068	9.400	8		2.171			
			24					
4293	10068	9.188	8	20.43		2.176	11	28 JUN 73
4293	3757	3.988	8					
10068	3757	-5.281	8	20.43		2.204		
4293	10068	9.269*	8*	20.43		2.204		
4293	10068	9.269	8		2.195			
			24					
4293	18206	8.345	10	17.79		2.132	12	13 JUL 73
4293	3757	4.193	7					
18206	3757	-3.996	11	17.79		2.172		
4293	18206	8.189*	7*	17.79		2.175		
4293	18206	8.181	8		2.157			
			25					
4293	18206	9.125	8	17.79		1.950	13	2 AUG 73
4293	3757	4.538	8					
18206	3757	-4.481	8	17.79		1.973		
4293	18206	9.019*	8*	17.79		1.993		
4293	18206	8.925	8		1.972			
			24					

Table 2. Recorder Scale Factors of Baring Head CO₂ Project, Con't. (4)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Compari- sons	N Scale Index Difference	Recorder Scale Factor		Date of Analysis
					Single Set	Weighted Average	
4293	18206	8.962	9	17.79	1.985#	14	16 AUG 73
4293	3757	4.333	9				
18206	3757	-4.225	8	17.79	2.079		
4293	18206	8.558*	8*	17.79	2.107		
4293	18206	8.444	8				2.093
			16				
4293	18206	8.906	9	17.79	1.998#	15	10 SEP 73
4293	3757	4.325	8				
18206	3757	-4.281	8	17.79	2.067		
4293	18206	8.606*	8*	17.79	2.061		
4293	18206	8.631	8				2.064
			16				
4293	18206	9.071	7	17.79	1.961	16	26 SEP 73
4293	3757	4.400	7				
18206	3757	-4.493	7	17.79	2.000		
4293	18206	8.893*	7*	17.79	1.966		
4293	18206	9.050	7				1.976
			21				
4293	18206	8.557	7	17.79	2.079	17	9 NOV 73
4293	3757	4.207	7				
18206	3757	-4.275	8	17.79	2.097		
4293	18206	8.482*	7*	17.79	2.107		
4293	18206	8.443	7				2.094
			21				

Table 2. Recorder Scale Factors of Baring Head CO Project, Con't. (5)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Comparisons	N Scale Index Difference	Recorder Scale Factor		Date of Analysis	Sheet No.
					Single Set	Weighted Average		
4293	18206	8.171	7	17.79	2.177		18	20 DEC 73
4293	3757	3.907	7					
18206	3757	-4.042	6	17.79	2.238			
4293	18206	7.949*	6*	17.79	2.210			
4293	18206	8.050	7			2.207		
4293	18206	7.614	7	17.79	2.336		19	23 JAN 74
4293	3757	3.520	5					
18206	3757	-3.950	8					
4293	18206	7.470*	5*	17.79	2.382			
4293	18206	7.479	7	17.79	2.379			
			19			2.364		
4293	3757	2.730	10				20	20 FEB 74
18206	3757	-3.406	8	17.79	2.899			
4293	18206	6.136*	8*	17.79	2.841			
4293	18206	6.262	12	16.60	2.862			
4293	2418	5.800	9			2.864		
			29					
4293	35353	3.625	6				21	13 MAR 74
3757	35353	-1.158	6					
4293	3757	4.783*	6*	9.01	1.884			
4293	3757	5.000	4	9.01	1.802			
4293	34819	1.400	5					
3757	34819	-3.450	5					
4293	3757	4.850*	5*	9.01	1.858			
			15			1.853		

Table 2. Recorder Scale Factors of Baring Head CO₂ Project, Con't. (6)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Comparisons	Recorder Scale Factor		Date of Analysis
				N Scale Index Difference	Single Set	
4293	2418	9.343	8	16.60	1.777	22 9 MAY 74
4293	35224	4.792	7			
2418	35224	-4.487	8			
4293	2418	9.279*	7*	16.60	1.789	
4293	2418	9.245	10	16.60	1.796	
			25			1.788
4293	2418	8.675	8	16.60	1.914	23 25 JUN 74
4293	35224	4.421	7			
2418	35224	-4.100	8			
4293	2418	8.521*	7*	16.60	1.948	
4293	2418	8.538	12	16.60	1.944	
			27			1.936
4293	2418	8.527	9	16.60	1.947	24 14 JUL 74
4293	35224	4.341	6			
2418	35224	-4.137	8			
4293	2418	8.478*	6*	16.60	1.958	
4293	2418	8.410	14	16.60	1.974	
			29			1.962
4293	2418	8.673	15	16.60	1.914	25 20 AUG 74
4293	35224	4.661	9			
2418	35224	-3.925	8			
4293	2418	8.586*	8*	16.60	1.933	
4293	2418	8.613	9	16.60	1.927	
18208	2418	6.759	11	12.96	1.917	
			43			1.921

Table 2. Recorder Scale Factors of Baring Head CO₂ Project, Cont. (7)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Comparisons	N Scale Index Difference	Recorder Scale Factor		Date of Analysis
					Single Set	Weighted Average	
18208	2418	5.498	31	12.96	2.357	26	23 SEP 74
18208	35224	2.189	9				
18208	35224	-3.230	10	12.96	2.392		
18208	2418	5.419*	9*	12.96	2.386		
18208	2418	5.431	8			2.369	
			48				
18208	34891	4.400	7	12.63	2.870	27	23 OCT 74
18208	35224	1.814	7				
18208	35224	-2.480	10	12.63	2.941		
18208	34891	4.294*	7*	12.96	2.903		
18208	2418	4.465	10			2.905	
			24				
18208	34891	4.321	7	12.63	2.923	28	5 NOV 74
18208	35224	1.717	6				
18208	35224	-2.500	9	12.63	2.995		
18208	34891	4.217*	6*	12.63	2.937		
18208	34891	4.300	8			2.949	
			21				
18208	34891	4.256	8	12.63	2.968	29	13 DEC 74
18208	35224	1.706	10				
18208	35224	-2.450	8	12.63	3.039		
18208	34891	4.156*	8*	12.63	2.995		
18208	34891	4.217	7			3.001	
			23				

Table 2. Recorder Scale Factors of Baring Head CO₂ Project, Cont. (8)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Compara- sons	N Scale Index Difference	Recorder Scale Factor		Date of Analysis
					Single Set	Weighted Average	
18208	34891	4.414	7	12.63	2.861	30	24 JAN 75
18208	35224	1.857	7				
18208	35224	-2.528	9				
18208	34891	4.385*	7*	12.63	2.880		
18208	34891	4.411	9	12.63	2.863		
			23			2.868	
18208	34891	6.200	7	12.63	2.037	31	5 MAR 75
18208	35224	2.494	9				
18208	35224	-3.600	8				
18208	34891	6.094*	8*	12.63	2.073		
18208	34891	6.144	8	12.63	2.056		
			23			2.056	
18208	34891	6.593	7	12.63	1.916	32	8 APR 75
18208	18207	1.219	8				
18208	18207	-5.328	9				
18208	34891	6.547*	8*	12.63	1.929		
18208	34891	6.543	7	12.63	1.930		
			22			1.925	
18208	39307	0.514	11				
18208	39307	-5.950	9				
18208	34891	6.464*	9*	12.63	1.954*	33	7 MAY 75
18208	34891	6.383	6	12.63	1.979		
18208	34891	6.320	5	12.63	1.998		
18208	39305	6.971	7	14.08	2.020		
			18			2.000	

Table 2. Recorder Scale Factors of Baring Head CO₂ Project, Con't. (9)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Comparisons	N Scale Index Difference	Recorder Scale Factor		Date of Analysis	Sheet No.
					Single Set	Weighted Average		
18208	39305	8.278	9	14.08	1.701#	1.816	34	15 MAY 75
18208	39307	0.519	8					
18208	39307	-7.306	9	14.08	1.799			
18208	39305	7.825*	8*	14.08	1.827			
18208	39305	7.708	12					
			20					
18208	39305	8.525	8	14.08	1.652		35	3 JUN 75
18208	39305	8.221	7	14.08	1.713			
			15			1.680		
18208	39305	9.563	8	14.08	1.472		36	26 JUN 75
18208	4296	2.131	8					
18208	4296	-7.340	5	14.08	1.487			
18208	39305	9.471*	5*					
18208	4296	2.265	10					
18208	4296	-7.231	13	14.08	1.483			
18208	39305	9.496*	10*	14.08	1.474			
18208	39305	9.550	9			1.478		
			32					
18208	11080	-0.894	8				37	3 JUL 75
18208	11080	-10.295	10					
18208	39305	9.401*	8*	14.08	1.498			
18208	39305	9.338	8	14.08	1.508			
18208	39305	9.315	12	14.08	1.512			
18208	10068	14.889	9	22.87	1.536#			
			28			1.507		

Table 2. Recorder Scale Factors of Baring Head CO₂ Project, Con't. (10)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Compari- sons	N Scale Index Difference	Recorder Scale Factor		Date of Analysis
					Single Set	Weighted Average	
18208	10068	17.800	8	22.87	1.285	38	2 SEP 75
18208	4283	-1.370	5				
18208	4283	-18.950	7				
18208	10068	17.580*	5*	22.87	1.301		
18208	10068	16.850	5	22.87	1.357#		
			13			1.291	
18208	10068	13.920	10	22.87	1.643#	39	10 SEP 75
18208	4283	-0.963	8				
18208	4283	-14.955	11				
18208	10068	13.992*	8*	22.87	1.635		
18208	10068	14.825	8	22.87	1.543		
			16			1.589	
18208	10068	12.633	6	22.87	1.810#	40	22 SEP 75
18208	10068	12.075	6	22.87	1.894		
			6			1.894	
18208	10068	11.857	14	22.87	1.929#	41	9 OCT 75
18208	10068	10.850	6	22.87	2.108		
18208	10068	10.858	6	22.87	2.106		
			12			2.107	

Table 2. Recorder Scale Factors of Baring Head CO₂ Project, Con't. (11)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Comparisons	N Scale Index Difference	Recorder Scale Factor		Sheet No.	Date of Analysis
					Single Set	Weighted Average		
6067	10068	13.289	9	28.17	2.120	42	14 OCT 75	
6067	10068	13.071	9	28.17	2.155*		2.120	
6067	18208	2.275	16			43	20 OCT 75	
35355	18208	-2.093	7	9.79	2.241			
6067	35355	4.368*	7*	-9.79	2.172#			
35355	6067	-4.507	7	-9.79	2.221			
35355	6067	-4.408	6				2.232	
			13					
18208	10068	13.900	11	22.87	1.645	44	25 OCT 75	
18208	10068	13.658	6	22.87	1.674#			
			11				1.645	
18208	10068	14.007	7	22.87	1.633	45	4 NOV 75	
18208	6071	0.758	12					
10068	6071	-13.194	9					
18208	10068	13.952*	9*	22.87	1.639			
18208	10068	13.850	6	22.87	1.651			
			22				1.640	

Table 2. Recorder Scale Factors of Baring Head CO₂ Project, Con't. (12)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Comparisons	N Scale Index Difference	Recorder Scale Factor		Date of Analysis
					Single Set	Weighted Average	
18208	10068	14.444	9	22.87	1.583	46	12 NOV 75
18208	6071	0.808	12				
10068	6071	-13.533	9	22.87	1.595		
18208	10068	14.341*	9*	22.87	1.594		
18208	10068	14.350	13				
			31		1.591		
18208	10068	13.964	7	22.87	1.638	47	19 NOV 75
18208	6071	0.833	6				
10068	6071	-13.045	10	22.87	1.648		
18208	10068	13.878*	6*	22.87	1.697#		
18208	10068	13.477	13				
			13		1.642		
18208	10068	14.342	13	22.87	1.595	48	26 NOV 75
18208	6071	0.835	10				
10068	6071	-13.536	7	22.87	1.591		
18208	10068	14.371*	7*	22.87	1.621#		
18208	10068	14.107	7				
			20		1.593		
18208	10068	14.782	11	22.87	1.547	49	11 DEC 75
18208	6071	0.885	10				
10068	6071	-13.943	7	22.87	1.542		
18208	10068	14.828*	7*	22.87	1.634#		
18208	10068	14.000	6				
			18		1.545		

Table 2. Recorder Scale Factors of Baring Head CO Project, Cont. (13)

(Sub) Standard Cylinder No.	Compared Cylinder No.	Observed Scale Difference	No. of Comparisons	N Scale Index Difference	Recorder Scale Factor		Sheet No.	Date of Analysis
					Single Set	Weighted Average		
18208	10068	15.425	4	22.87	1.483		50	22 DEC 75
18208	39345	0.000	3					
10068	39345	-15.425	4					
18208	10068	15.425*	3*	22.87	1.483			
18208	10068	14.800	4	22.87	1.545#			
			7					1.483
18208	10068	13.850	8	22.87	1.651		51	4 JAN 76
18208	39345	0.000	4					
10068	39345	-14.000	6					
18208	10068	14.000*	4*	22.87	1.634			
18208	10068	13.695	10	22.87	1.670			
			22					1.657

Table 3. Summary of Curvature Factor Determinations for Baring Head Test Days

Date of Test Day	(RSP) N	All Data Pairs			With Data Pair Omitted		
		No. of Data Pairs	K	Chisqd	No. of Data Pairs	K	Chisqd
23 DEC 72	2.639	6	0.001894	0.0015			
31 DEC 72	2.828	7	0.003804	0.0003			
20 JAN 73	2.996	6	0.000043	0.0343	5	0.001811	0.0068
9 FEB 73	2.151	7	0.002403	0.0014			
8 MAR 73	2.298	6	0.004524	0.0033			
22 MAR 73	2.298	7	0.004477	0.0027			
27 APR 73	2.584	7	0.002495	0.0080			
21 MAY 73	2.245	6	0.001530	0.0288	5	0.000638	0.0128
13 JUN 73	2.171	7	0.001568	0.0103			
28 JUN 73	2.195	6	0.002926	0.0048			
13 JUL 73	2.157	7	-0.000114	0.0051			
2 AUG 73	1.972	6	0.000531	0.0069			
16 AUG 73	2.093	7	0.002228	0.0409	6	0.000467	0.0084
10 SEP 73	2.064	6	0.002901	0.0199	5	0.001774	0.0030
26 SEP 73	1.976	7	0.003765	0.0062			
9 NOV 73	2.094	7	0.004580	0.0090			
20 DEC 73	2.207	7	0.006098	0.0089			
23 JAN 74	2.364	7	0.009002	0.0046			
20 FEB 74	2.864	6	0.014560	0.0060			
13 MAR 74	1.853	6	-0.007716	0.0128			
9 MAY 74	1.788	7	0.007364	0.0020			
25 JUN 74	1.936	7	0.007057	0.0059			
14 JUL 74	1.962	7	0.010697	0.0090			
20 AUG 74	1.921	7	0.001743	0.0035			
23 SEP 74	2.369	7	0.004001	0.0010			
23 OCT 74	2.905	6	0.003523	0.0021			
5 NOV 74	2.949	7	0.007441	0.0016			
13 DEC 74	3.001	10	0.005567	0.0015			
24 JAN 75	2.868	7	0.001103	0.0016			
5 MAR 75	2.056	7	0.005858	0.0014			
8 APR 75	1.925	8	0.001759	0.0029			
7 MAY 75	2.000	7	0.002427	0.0097	6	0.002878	0.0058
15 MAY 75	1.816	7	0.003766	0.0496	6	0.001311	0.0081
3 JUN 75	1.680	6	0.006481	0.0228			
26 JUN 75	1.478	9	0.005441	0.0060			
3 JUL 75	1.507	7	-0.001402	0.0104	6	0.004089	0.0014

rejected - analyser problems or wrong cylinder sequence

Chisqd > 0.015: no instructions

Table 3. Summary of Curvature Factor Determinations for Baring Head Test Days, Con't. (2)

Date of Test Day	(RSF) N	All Data Pairs			With Data Pair Omitted		
		No. of Data Pairs	K	Chisqd	No. of Data Pairs	K	Chisqd
2 SEP 75	1.291	8	0.003771	0.1014	7	0.004539	0.0091
10 SEP 75	1.589	7	0.007511	0.1322	rejected - analyser problems or wrong cylinder sequence		
22 SEP 75	1.894	5	0.010413	0.0873	4	0.009355	0.0184
9 OCT 75	2.107	7	0.009921	0.2185	rejected - analyser problems or wrong cylinder sequence		
14 OCT 75	2.120	6	0.010347	0.0129	rejected - analyser problems or wrong cylinder sequence		
20 OCT 75	2.232	7	0.010186	0.0170	rejected - analyser problems or wrong cylinder sequence		
25 OCT 75	1.645	6	0.011881	0.0142	5	0.012270	0.0068
4 NOV 75	1.640	6	0.012997	0.0042			
12 NOV 75	1.591	7	0.011571	0.0057			
19 NOV 75	1.642	7	0.010148	0.0388	6	0.010644	0.0081
26 NOV 75	1.593	7	0.011283	0.0141	6	0.011546	0.0050
11 DEC 75	1.545	8	0.011714	0.0902	7	0.012523	0.0049
22 DEC 75	1.483	6	0.011727	0.0917	5	0.012326	0.0075
4 JAN 76	1.657	6	0.012073	0.0195	Chisqd > 0.015: no instructions		

TABLE 4. CURVATURE FACTORS, K, USED TO DETERMINE I SCALE INDICES, CONT. (2)

INITIAL TIME DATE	FINAL TIME DATE	OPERATION ON K	K VALUES FROM TEST DAYS		CONSEQUENT K VALUES		CYLINDER NUMBERS			INDICES		
			INITIAL	FINAL	INITIAL	FINAL	I	HS	WG	I	WG	
22 APR 74		D'LY CALC			0.001426							
23 APR 74		D'LY CALC			0.001482							
24 APR 74		D'LY CALC			0.001539							
25 APR 74		D'LY CALC			0.001595							
26 APR 74		D'LY CALC			0.001652							
27 APR 74		D'LY CALC			0.001708							
28 APR 74		D'LY CALC			0.001764							
29 APR 74		D'LY CALC			0.001821							
3 MAY 74		D'LY CALC			0.002046							
4 MAY 74		D'LY CALC			0.002103							
8 MAY 74		D'LY CALC			0.002328							
9 MAY 74		D'LY CALC			0.002328							
11 MAY 74		D'LY CALC			0.002497							
13 MAY 74		D'LY CALC			0.002610							
29 MAY 74		D'LY CALC			0.003512							
30 MAY 74		D'LY CALC			0.003568							
2 JUN 74		D'LY CALC			0.007519							
3 JUN 74		D'LY CALC			0.007755							
4 JUN 74		D'LY CALC			0.007990							
12 JUN 74		D'LY CALC			0.009875							
13 JUN 74		D'LY CALC			0.010110							
16 JUN 74		D'LY CALC			0.010817							
17 JUN 74		D'LY CALC			0.011052							
18 JUN 74		D'LY CALC			0.006593							
19 JUN 74		D'LY CALC			0.006713							
20 JUN 74		D'LY CALC			0.006833							
3 JUL 74		D'LY CALC			0.008268							
4 JUL 74		D'LY CALC			0.008507							
5 JUL 74		D'LY CALC			0.008627							
6 JUL 74		D'LY CALC			0.008747							
7 JUL 74		D'LY CALC			0.008866							
8 JUL 74		D'LY CALC			0.008986							
10 JUL 74		D'LY CALC			0.009225							
11 JUL 74		D'LY CALC			0.009345							
12 JUL 74		D'LY CALC			0.009464							
26 JUL 74		D'LY CALC			0.006188							
1 AUG 74		D'LY CALC			0.005429							
7 AUG 74		D'LY CALC			0.004671							

TABLE 4. CURVATURE FACTORS, K, USED TO DETERMINE I SCALE INDICES, CON'T. (3)

INITIAL TIME	DATE	FINAL TIME	DATE	OPERATION ON K	K VALUES FROM TEST DAYS		CONSEQUENT K VALUES		CYLINDER NUMBERS			INDICES		
					INITIAL	FINAL	INITIAL	FINAL	I	HS	WG	I	WG	WG
8	AUG 74			D'LY CALC			0.004544		18208	24 18	34965	317.79	321.52	
9	AUG 74			D'LY CALC			0.004418		18208	24 18	1008	317.79	319.43	
10	AUG 74			D'LY CALC			0.004291		18208	34891	1008	317.79	319.43	
11	AUG 74			D'LY CALC			0.004165		18208	34891	4284	317.79	319.94	
12	AUG 74			D'LY CALC			0.004039		18208	34891	6060	317.79	318.83	
14	AUG 74			D'LY CALC			0.003786		18208	34891	10067	317.79	319.12	
18	AUG 74			D'LY CALC			0.003280		18208	34891	10067	317.79	319.12	
19	AUG 74			D'LY CALC			0.003154		18208	34891	18207	317.79	320.21	
20	AUG 74			D'LY CALC			0.003358		18208	34891	18207	317.79	318.87	
20	AUG 74			INTERP'D	0.000578		0.000316		18208	34891	39307	317.79	318.87	
23	SEP 74			INTERP'D	0.000317	0.000317	0.000316	-0.002298	18208	24 18	1008	317.79	319.43	
23	SEP 74			INTERP'D	0.000317	-0.002288	0.000316	-0.002298	18208	34891	1008	317.79	319.43	
23	OCT 74			INTERP'D	-0.002288	0.002258	-0.002296	0.002249	18208	34891	4284	317.79	319.94	
5	NOV 74			INTERP'D	0.002258	0.000830	0.002247	0.000828	18208	34891	4284	317.79	319.94	
13	DEC 74			INTERP'D	0.000830	-0.004909	0.000829	-0.004934	18208	34891	6060	317.79	318.83	
24	JAN 75			INTERP'D	0.000830	-0.004909	-0.004941	-0.004941	18208	34891	10067	317.79	319.12	
4	FEB 75			CONSTANT	0.000847	0.000847	0.000846	0.000846	18208	34891	10067	317.79	319.12	
4	FEB 75			CONSTANT	0.000847	0.000847	0.000846	0.000846	18208	34891	10067	317.79	319.12	
5	MAR 75			INTERP'D	0.000847	-0.002842	0.000845	-0.002861	18208	34891	18207	317.79	320.21	
8	APR 75			INTERP'D	-0.002842	-0.001895	-0.002850	-0.001898	18208	34891	39307	317.79	318.87	
7	MAY 75			INTERP'D	-0.002842	-0.001895	-0.002850	-0.001898	18208	34891	39307	317.79	318.87	
15	MAY 75			INTERP'D	-0.001895	-0.003827	-0.001898	-0.003842	18208	34891	39307	317.79	318.87	
3	JUN 75			INTERP'D	-0.003827	0.002968	-0.003872	0.002973	18208	39305	NZIG3	317.79	319.40	
26	JUN 75			INTERP'D	0.002968	0.003508	0.002958	0.003466	18208	39305	4296	317.79	321.17	
3	JUL 75			INTERP'D	0.003508	0.000153	0.003524	0.000153	18208	39305	11080	317.79	316.43	
4	AUG 75			INTERP'D	0.000153	0.001513	0.000152	0.001496	18208	10068	11080	317.79	316.43	
2	SEP 75			INTERP'D	0.001513	0.002873	0.001497	0.002889	18208	10068	4283	317.79	315.83	
2	SEP 75			INTERP'D	0.002873	0.009355	0.002846	0.009078	18208	10068	NZIG2	317.79	321.04	
9	OCT 75			CONSTANT	0.009355	0.009355	0.009078	0.009078	18208	10068	NZIG2	317.79	321.04	
9	OCT 75			CONSTANT	0.009355	0.009355	0.009078	0.009078	18208	10068	NZIG2	317.79	321.04	
14	OCT 75			CONSTANT	0.010857	0.010857	0.010304	0.010304	18208	10068	NZIG1	317.79	322.73	
20	OCT 75			INTERP'D	0.011298	0.011828	0.011067	0.011576	18208	10068	NZIG4	317.79	319.63	
20	OCT 75			INTERP'D	0.011298	0.012270	0.011576	0.011999	18208	10068	NZIG4	317.79	319.63	
25	OCT 75			INTERP'D	0.012270	0.012997	0.012009	0.012704	18208	10068	6071	317.79	319.56	
4	NOV 75			INTERP'D	0.012997	0.012997	0.012704	0.012704	18208	10068	6071	317.79	319.56	
12	NOV 75			INTERP'D	0.011572	0.011572	0.011339	0.011339	18208	10068	6071	317.79	319.56	
19	NOV 75			INTERP'D	0.011572	0.010644	0.011339	0.010447	18208	10068	6071	317.79	319.56	
19	NOV 75			INTERP'D	0.010644	0.011546	0.010447	0.011314	18208	10068	6071	317.79	319.56	
26	NOV 75			INTERP'D	0.011546	0.012523	0.011314	0.012251	18208	10068	6071	317.79	319.56	
11	DEC 75			INTERP'D	0.011546	0.012523	0.011314	0.012251	18208	10068	6071	317.79	319.56	
11	DEC 75			INTERP'D	0.012523	0.012326	0.012552	0.012354	18208	10068	39345	317.79	317.60	
22	DEC 75			INTERP'D	0.012523	0.012326	0.012552	0.012354	18208	10068	39345	317.79	317.60	
4	JAN 76			CONSTANT	0.012326	0.012326	0.012354	0.012354	18208	10068	39345	317.79	317.60	

TABLE 4A. CYLINDER NUMBERS USED FOR K CALCULATIONS

INITIAL TEST DAY	FINAL TEST DAY	PERIOD BETWEEN
20 DEC 72 (4293 10068)	23 DEC 72 (4293 10068)	(4293 10068 11080)
23 DEC 72 (4293 10068)	31 DEC 72 (4293 10068)	(4293 10068 11080)
31 DEC 72 (4293 10068)	20 JAN 73 (4293 10068)	(4293 10068 181)
20 JAN 73 (4293 10068)	9 FEB 73 (4293 10068)	(4293 10068 181)
9 FEB 73 (4293 10068)	8 MAR 73 (4293 10068)	(4293 10068 11085)
8 MAR 73 (4293 10068)	22 MAR 73 (4293 10068)	(4293 10068 11085)
22 MAR 73 (4293 10068)	12 APR 73 (4293 10068)	(4293 10068 4273)
12 APR 73 (4293 10068)	27 APR 73 (4293 10068)	(4293 10068 4273)
27 APR 73 (4293 10068)	4 MAR 73 (4293 10068)	(4293 10068 1008)
4 MAR 73 (4293 10068)	1 JUN 73 (4293 10068)	(4293 10068 1008)
1 JUN 73 (4293 10068)	13 JUN 73 (4293 10068)	(4293 10068 1008)
13 JUN 73 (4293 10068)	28 JUN 73 (4293 10068)	(4293 10068 10067)
28 JUN 73 (4293 10068)	13 JUL 73 (4293 18206)	(4293 18206 10067)
13 JUL 73 (4293 18206)	16 JUL 73 (4293 18206)	(4293 18206 2403)
16 JUL 73 (4293 18206)	2 AUG 73 (4293 18206)	(4293 18206 2403)
2 AUG 73 (4293 18206)	16 AUG 73 (4293 18206)	(4293 18206 2403)
16 AUG 73 (4293 18206)	10 SEP 73 (4293 18206)	(4293 18206 1004)
10 SEP 73 (4293 18206)	26 SEP 73 (4293 18206)	(4293 18206 1004)
26 SEP 73 (4293 18206)	9 NOV 73 (4293 18206)	(4293 18206 35354)
9 NOV 73 (4293 18206)	20 DEC 73 (4293 18206)	(4293 18206 35356)
20 DEC 73 (4293 18206)	23 JAN 74 (4293 18206)	(4293 18206 35357)
23 JAN 74 (4293 18206)	20 FEB 74 (4293 18206)	(4293 18206 34819)
20 FEB 74 (4293 18206)	8 MAR 74 (4293 18206)	(4293 2418 34819)
8 MAR 74 (4293 18206)	13 MAR 74 (4293 18206)	(4293 2418 34819)
13 MAR 74 (4293 18206)	23 SEP 74 (18208 2418)	(18208 2418 34965)
23 SEP 74 (18208 2418)	23 OCT 74 (18208 34891)	(18208 2418 1008)
23 OCT 74 (18208 34891)	5 NOV 74 (18208 34891)	(18208 34891 1008)
5 NOV 74 (18208 34891)	13 DEC 74 (18208 34891)	(18208 34891 4284)
13 DEC 74 (18208 34891)	24 JAN 75 (18208 34891)	(18208 34891 6060)
24 JAN 75 (18208 34891)	4 FEB 75 (18208 34891)	(18208 34891 10067)
4 FEB 75 (18208 34891)	5 MAR 75 (18208 34891)	(18208 34891 10067)
5 MAR 75 (18208 34891)	8 APR 75 (18208 34891)	(18208 34891 18207)
8 APR 75 (18208 34891)	7 MAY 75 (18208 34891)	(18208 34891 39307)
7 MAY 75 (18208 34891)	15 MAY 75 (18208 34891)	(18208 34891 39307)
15 MAY 75 (18208 34891)	3 JUN 75 (18208 39305)	(18208 39305 NZIG3)
3 JUN 75 (18208 39305)	26 JUN 75 (18208 39305)	(18208 39305 4296)
26 JUN 75 (18208 39305)	3 JUL 75 (18208 39305)	(18208 39305 11080)
3 JUL 75 (18208 39305)	4 AUG 75 (18208 39305)	(18208 10068 11080)
4 AUG 75 (18208 39305)	2 SEP 75 (18208 10068)	(18208 10068 4283)
2 SEP 75 (18208 10068)	22 SEP 75 (18208 10068)	(18208 10068 NZIG2)
22 SEP 75 (18208 10068)	9 OCT 75 (18208 10068)	(18208 10068 NZIG2)
9 OCT 75 (18208 10068)	14 OCT 75 (18208 10068)	(18208 10068 NZIG1)
14 OCT 75 (18208 10068)	20 OCT 75 (18208 10068)	(18208 10068 NZIG4)
20 OCT 75 (18208 10068)	25 OCT 75 (18208 10068)	(18208 10068 NZIG4)
25 OCT 75 (18208 10068)	4 NOV 75 (18208 10068)	(18208 10068 6071)
4 NOV 75 (18208 10068)	12 NOV 75 (18208 10068)	(18208 10068 6071)
12 NOV 75 (18208 10068)	19 NOV 75 (18208 10068)	(18208 10068 6071)
19 NOV 75 (18208 10068)	26 NOV 75 (18208 10068)	(18208 10068 6071)
26 NOV 75 (18208 10068)	11 DEC 75 (18208 10068)	(18208 10068 6071)
11 DEC 75 (18208 10068)	22 DEC 75 (18208 10068)	(18208 10068 39345)
22 DEC 75 (18208 10068)	4 JAN 76 (18208 10068)	(18208 10068 39345)

Table 5. N and I Scale Indices of Baring Head Surveillance Reference Gases

Date of Analysis	Sub Standard Cylinder No.	Compared Cylinder No.	Single set		Weighted Average		Measured Cylinder No.
			No. of Comparisons	N	I	N	
23 DEC 72	4293	3757	14	322.99	323.18		
31 DEC 72	4293	3757	10	322.78	323.17		
20 JAN 73	4293	3757	8	323.20	323.38		
9 FEB 73	4293	3757	8	322.86	323.11		
8 MAR 73	4293	3757	11	322.75	323.21		
22 MAR 73	4293	3757	9	322.74	323.20		
27 APR 73	4293	3757	7	323.05	323.30		
21 MAY 73	4293	3757	9	323.22	323.28		
13 JUN 73	4293	3757	9	323.06	323.22		
28 JUN 73	4293	3757	8	322.90	323.20		
13 JUL 73	4293	3757	7	323.19	323.18		
2 AUG 73	4293	3757	8	323.10	323.14		
16 AUG 73	4293	3757	9	323.22	323.25		
10 SEP 73	4293	3757	8	323.08	323.22		
26 SEP 73	4293	3757	7	322.84	323.14		
9 NOV 73	4293	3757	7	322.96	323.32		
20 DEC 73	4293	3757	7	322.77	323.25		
23 JAN 74	4293	3757	5	322.47	323.18		
20 FEB 74	4293	3757	10	321.97	323.12	161	322.90 0.07 323.21 0.02
23 DEC 72	10068	3757	11	323.13	323.32		
31 DEC 72	10068	3757	11	322.84	323.24		
20 JAN 73	10068	3757	9	323.08	323.26		
9 FEB 73	10068	3757	8	322.97	323.21		
8 MAR 73	10068	3757	8	322.89	323.36		
22 MAR 73	10068	3757	8	322.79	323.25		
27 APR 73	10068	3757	8	322.92	323.18		
21 MAY 73	10068	3757	7	323.08	323.15		
13 JUN 73	10068	3757	7	323.35	323.52		
28 JUN 73	10068	3757	8	322.99	323.29		
13 JUL 73	18206	3757	11	323.32	323.31	85	323.00 0.05 323.28 0.03
2 AUG 73	18206	3757	8	323.10	323.15		
16 AUG 73	18206	3757	8	323.10	323.13		
10 SEP 73	18206	3757	8	323.10	323.24		
26 SEP 73	18206	3757	7	323.06	323.36		
9 NOV 73	18206	3757	8	322.99	323.35		
20 DEC 73	18206	3757	6	323.02	323.50		
23 JAN 74	18206	3757	8	322.60	323.31		
20 FEB 74	18206	3757	8	322.19	323.34	72	322.95 0.12 323.29 0.04
				Wt'd average		318	322.94 0.05 323.25 0.01

Table 5. N and I Scale Indices of Baring Head Surveillance Reference Gases, Con't. (3)

Date of Analysis	Sub Standard Cylinder No.	Compared Cylinder No.	Single set		Weighted Average		Measured Cylinder No.
			No. of Comparisons	N	I	N	
9 MAY 74	2418	35224	8	322.73	323.23		
25 JUN 74	2418	35224	8	322.81	323.29		
14 JUL 74	2418	35224	8	322.63	323.36		
20 AUG 74	2418	35224	8	323.21	323.33		
23 SEP 74	2418	35224	10	323.10	323.26	42	323.29 0.02
9 MAY 74	4293	35224	7	322.72	323.22		
25 JUN 74	4293	35224	7	322.71	323.19		
14 JUL 74	4293	35224	6	322.67	323.40		
20 AUG 74	4293	35224	9	323.11	323.22	29	323.25 0.04
23 SEP 74	18208	35224	9	322.97	323.14		
23 OCT 74	18208	35224	19	322.94	323.08		
23 OCT 74	18208	35224	7	323.06	323.20		
5 NOV 74	18208	35224	6	322.85	323.14		
13 DEC 74	18208	35224	10	322.91	323.13		
24 JAN 75	18208	35224	7	323.12	323.16		
5 MAR 75	18208	35224	9	322.92	323.15		
8 APR 75	18208	35224	9	323.02	323.09		
7 MAY 75	18208	35224	6	322.91	323.02		
15 MAY 75	18208	35224	10	323.08	323.14		
3 JUN 75	18208	35224	8	322.90	323.21		
26 JUN 75	18208	35224	12	322.71	322.96		
3 JUL 75	18208	35224	11	322.93	323.12		
2 SEP 75	18208	35224	10	322.75	323.17		
22 SEP 75	18208	35224	6	322.11	322.97		
25 OCT 75	18208	35224	8	321.88	323.01		
4 NOV 75	18208	35224	14	321.92	323.14		
12 NOV 75	18208	35224	10	321.93	323.00		
19 NOV 75	18208	35224	13	322.01	322.99		
26 NOV 75	18208	35224	8	321.95	323.02		
11 DEC 75	18208	35224	11	321.87	323.03		
22 DEC 75	18208	35224	6	321.88	323.02		
4 JAN 76	18208	35224	11	321.92	323.03		
23 OCT 74	34891	35224	10	323.22	323.36	44	323.29 0.03
5 NOV 74	34891	35224	9	323.05	323.34	335	323.15 0.02
13 DEC 74	34891	35224	8	323.07	323.29		
24 JAN 75	34891	35224	9	323.17	323.21		
5 MAR 75	34891	35224	8	323.02	323.25		
			Wtd. average				
			44	323.11	0.04	323.29	0.03
			335	322.68	0.08	323.15	0.02
							35224

Table 5. N and I Scale Indices of Baring Head Surveillance Reference Gases, Cont'd. (4)

Date of Analysis	Sub Standard Cylinder No.	Compared Cylinder No.	Single set		Weighted Average		Measured Cylinder No.
			No. of Comparisons	N	I	No. of Comparisons	
22 SEP 75	18208	35355	6	321.72	322.52		
25 OCT 75	18208	35355	8	321.43	322.47		
12 NOV 75	18208	35355	8	321.49	322.47		
19 NOV 75	18208	35355	8	321.60	322.51		
26 NOV 75	18208	35355	18	321.49	322.47		
11 DEC 75	18208	35355	10	321.43	322.50		
22 DEC 75	18208	35355	8	321.41	322.46		
4 JAN 76	18208	35355	8	321.44	322.47		
				Wt'd average		74	321.49 0.03 322.48 0.01
						74	321.49 0.03 322.48 0.01

Table 6. Average I Scale Indices of Baring Head Surveillance Reference Gases

<u>Dates</u>	<u>Location</u>	<u>(Sub) Standard Cylinder Nos.</u>	<u>Surveillance Cylinder Nos.</u>	<u>No. of Comparisons</u>	<u>I</u>
SEP 72	SIO	Various	3757	38	323.31
DEC 72-JUN 73	BH	4293 & 10068	3757	178	323.25
JUL 73-FEB 74	BH	4293 & 18206	3757	140	323.24
NOV 74	SIO	Various	3757	50	323.04
MAY 73	SIO	Various	35224	54	323.45
MAY 74-AUG 74	BH	4293 & 2418	35224	61	323.28
SEP 74	BH	18208 & 2418	35224	19	323.20
OCT 74-MAY 75	BH	18208 & 34891	35224	117	323.18
MAY 75-JUL 75	BH	18208(HS 39305)	35224	41	323.10
SEP 75-JAN 76	BH	18208(HS 10068)	35224	97	323.04
JAN 77	SIO	Various	35224	50	322.82
MAY 73	SIO	Various	35355	53	322.77
SEP 75-JAN 76	BH	18208(HS 10068)	35355	74	322.48
SEP 77	SIO	Various	35355	57	322.28

Reference Gas Data used for Computer Run of 14 FEB 78

Cylinder	Use	Dates		Index used for prelim work-up	Current Best Value
		Left SIO	Retnd SIO		
136	S	29 MAR 76		329.47	prelim value
181	W	21 SEP 72	16 JUL 73	325.32	325.39
1004	W	2 JAN 73	7 MAY 74	317.63	317.96
1008	W	2 JAN 73	18 OCT 73	318.40	318.58
1008	W	14 MAY 74	17 SEP 75	319.39	319.42
2403	W	2 JAN 73	7 MAY 74	318.29	318.37
2405	W	26 SEP 75	4 AUG 76	321.03	321.06
2418	H	7 AUG 73	17 SEP 75	330.74	330.75
2419	W	9 DEC 75	14 JAN 77	321.32	321.34
2425	W	13 AUG 75	4 AUG 76	316.47	316.51
2425	W	6 APR 77		318.55	prelim value
2426	H	10 SEP 76		341.25	prelim value
3757	S	21 SEP 72	26 NOV 74	323.31	323.16
3758	W	13 AUG 75		315.29	prelim value
3759	W	9 DEC 75	14 JAN 77	322.17	322.19
4273	W	21 SEP 72	18 OCT 73	323.10	323.19
4276	W	10 SEP 76		321.35	prelim value
4283	W	4 MAY 73	9 MAR 76	315.87	315.82
4284	W	14 MAY 74	17 SEP 75	319.96	319.95
4285	H	29 MAR 76		343.97	prelim value
4292	W	10 SEP 76		320.72	prelim value
4293	I	21 SEP 72	26 NOV 74	314.19	314.15
4295	I	28 MAR 75	17 SEP 75	321.48	321.16
4296	W	29 MAR 76		321.68	prelim value
6060	W	14 MAY 74	9 MAR 76	318.76	318.81
6067	I	21 SEP 72	9 MAR 76	312.56	312.49
6071	W	13 AUG 75	9 MAR 76	319.50	319.50
6071	W	10 SEP 76		321.41	prelim value
6081	I	13 AUG 75	27 MAY 77	321.32	321.27
7362	H	13 AUG 75	14 JAN 77	337.25	337.34
10067	W	2 JAN 73	18 OCT 73	317.91	317.96
10067	W	14 MAY 74	17 SEP 75	319.16	319.14
10068	H	21 SEP 72	18 OCT 73	334.53	334.58
10068	H	4 JUN 75	4 AUG 76	340.62	340.66
11076	W	9 DEC 75	14 JAN 77	322.25	322.27
11080	W	21 SEP 72	16 JUL 73	324.56	324.58
11080	W	28 MAR 75	9 MAR 76	316.41	316.39
11080	W	10 SEP 76		320.74	prelim value
11081	W	26 SEP 75	14 JAN 77	320.72	320.78
11082	S	5 MAY 77		326.56	prelim value
11085	W	21 SEP 72	16 JUL 73	325.83	325.84
11085	W	29 MAR 76	27 MAY 77	321.69	321.82
18206	H	21 SEP 72	7 MAY 74	331.91	331.94
18207	W	14 MAY 74	17 SEP 75	320.22	320.21
18208	I	7 AUG 73	9 MAR 76	317.84	317.79
34803	A	29 NOV 76	27 MAY 77	339.26	339.07
34819	W	4 MAY 73	26 NOV 74	316.47	316.43
34850	S	4 MAY 73		322.87	prelim value
34891	H	7 AUG 73	17 SEP 75	330.46	330.42
34940	A	29 NOV 76	27 MAY 77	322.11	322.03
34965	W	4 MAY 73	26 NOV 74	321.50	321.55

35224	S	4	MAY	73	14	JAN	77	322.94	323.14
35234	A	29	NOV	76	27	MAY	77	312.10	312.27
35254	N	4	MAY	73	26	NOV	74	321.40	321.44
35260	A	29	NOV	76				323.14	prelim value
35333	N	4	MAY	73	26	NOV	74	320.49	320.49
35343	W	4	MAY	73	26	NOV	74	321.14	321.12
35353	W	4	MAY	73	26	NOV	74	320.94	320.87
35354	H	4	MAY	73	7	MAY	74	318.27	318.28
35355	S	4	MAY	73	6	SEP	77	322.77	322.28
35356	W	4	MAY	73	7	MAY	74	318.24	318.23
35357	H	4	MAY	73	7	MAY	74	318.17	318.13
39298	N	29	MAR	76	27	MAY	77	321.71	321.82
39305	H	4	MAY	73	17	SEP	75	331.88	331.87
39307	R	14	MAY	74	17	SEP	75	318.91	318.96
39345	N	13	AUG	75	4	AUG	76	317.71	317.72
NZIG1	A	23	OCT	74	14	OCT	75	323.02	323.01
NZIG2	A	13	DEC	74	14	OCT	75	320.91	321.27
NZIG3	A	7	MAY	75	22	SEP	75	319.12	319.54
NZIG3	A	1	JUN	76	1	FEB	77	000.00	prelim value
NZIG3	A	1	MAR	77				000.00	prelim value
NZIG4	A	9	OCT	75	4	JAN	76	319.62	319.66

Table 8. N and I Scale Indices of Baring Head Working Reference Gases

Date of Analysis	Sub Standard Cylinder No.	Single set			Weighted Average			Measured Cylinder No.
		Compared Cylinder No.	No. of Comparisons	N	I	No. of Comparisons	N	
31 DEC 72	4293	181	9	325.01	325.40			
20 JAN 73	4293	181	8	324.99	325.18			
9 FEB 73	4293	181	9	325.20	325.45	26	325.07	0.07 325.35 0.08
				Wt'd average		26	325.07	0.07 325.35 0.08
16 AUG 73	4293	1004	7	317.63	317.66			
10 SEP 73	4293	1004	7	317.70	317.79			
26 SEP 73	4293	1004	6	317.90	318.11	20	317.74	0.08 317.84 0.13
				Wt'd average		20	317.74	0.08 317.84 0.13
27 APR 73	4293	1008	5	318.21	318.38			
21 MAY 73	4293	1008	8	318.22	318.26			
13 JUN 73	4293	1008	8	318.36	318.47	21	318.27	0.05 318.37 0.06
				Wt'd average		21	318.27	0.05 318.37 0.06
23 SEP 74	18208	1008	9	319.37	319.44			
5 NOV 74	18208	1008	7	319.22	319.35			
13 DEC 74	18208	1008	3	319.54	319.65	19	319.34	0.08 319.44 0.07
				Wt'd average		19	319.34	0.08 319.44 0.07
13 JUL 73	4293	2403	8	318.37	318.36			
2 AUG 73	4293	2403	9	318.39	318.42			
15 AUG 73	4293	2403	7	318.31	318.33	24	318.36	0.02 318.38 0.03
				Wt'd average		24	318.36	0.02 318.38 0.03
22 MAR 73	4293	4273	9	322.54	323.00			
27 APR 73	4293	4273	8	322.79	323.05	17	322.66	0.13 323.02 0.02
				Wt'd average		17	322.66	0.13 323.02 0.02
2 SEP 75	10068	4283	7	316.20	315.99	7	316.20	0.00 315.99 0.00
2 SEP 75	18208	4283	5	316.02	315.80			
2 SEP 75	18208	4283	8	316.09	315.88	13	316.07	0.04 315.85 0.04
				Wt'd average		20	316.11	0.05 315.90 0.05
5 NOV 74	18208	4284	8	319.74	319.91			
13 DEC 74	18208	4284	8	319.78	319.90	16	319.76	0.02 319.91 0.00
				Wt'd average		16	319.76	0.02 319.91 0.00
3 JUN 75	18208	4296	15	320.70	320.92			

Table 8. N and I Scale Indices of Baring Head Working Reference Gases, Con't. (2)

Date of Analysis	Sub Standard Cylinder No.	Compared Cylinder No.	Single set			Weighted Average			Measured Cylinder No.		
			No. of Comparisons	N	I	No. of Comparisons	N	I			
26 JUN 75	18208	4296	8	320.94	321.14						
26 JUN 75	18208	4296	10	321.14	321.34	33	320.89	0.13	321.10	0.13	
26 JUN 75	39305	4296	5	321.02	321.22						
26 JUN 75	39305	4296	13	321.18	321.38	18	321.13	0.07	321.34	0.08	
				Wt'd average		51	320.98	0.10	321.18	0.10	4296
13 DEC 74	18208	6060	3	318.79	318.86						
13 DEC 74	18208	6060	8	318.80	318.87						
24 JAN 75	18208	6060	7	318.94	318.95	18	318.85	0.05	318.90	0.03	
				Wt'd average		18	318.85	0.05	318.90	0.03	6060
4 NOV 75	10068	6071	9	319.02	319.48						
12 NOV 75	10068	6071	9	319.13	319.56						
19 NOV 75	10068	6071	10	319.23	319.65						
26 NOV 75	10068	6071	7	319.09	319.51						
11 DEC 75	10068	6071	7	319.11	319.59	42	319.12	0.04	319.56	0.03	
25 OCT 75	18208	6071	8	319.10	319.55						
4 NOV 75	18208	6071	12	319.03	319.50						
12 NOV 75	18208	6071	12	319.08	319.49						
19 NOV 75	18208	6071	6	319.16	319.55						
26 NOV 75	18208	6071	10	319.12	319.55						
11 DEC 75	18208	6071	10	319.16	319.65	58	319.10	0.02	319.55	0.02	
				Wt'd average		100	319.11	0.02	319.55	0.02	6071
13 JUN 73	4293	10067	8	317.64	317.73						
28 JUN 73	4293	10067	8	317.61	317.79						
13 JUL 73	4293	10067	9	317.83	317.82	25	317.70	0.07	317.78	0.03	
				Wt'd average		25	317.70	0.07	317.78	0.03	10067
24 JAN 75	18208	10067	9	318.95	318.97						
5 MAR 75	18208	10067	8	319.07	319.17	17	319.01	0.06	319.06	0.10	
				Wt'd average		17	319.01	0.06	319.06	0.10	10067
23 DEC 72	4293	11080	10	324.36	324.56						
31 DEC 72	4293	11080	10	324.16	324.56	20	324.26	0.10	324.56	0.00	
				Wt'd average		20	324.26	0.10	324.56	0.00	11080
3 JUL 75	10068	11080	13	317.15	317.11						
26 JUN 75	18208	11080	22	316.44	316.31	13	317.15	0.00	317.11	0.00	

Table 8. N and I Scale Indices of Baring Head Working Reference Gases, Con't. (3)

Date of Analysis	Sub Standard Cylinder No.	Compared Cylinder No.	Single set			Weighted Average			Measured Cylinder No.		
			No. of Comparisons	N	I	No. of Comparisons	N	I			
3 JUL 75	18208	11080	8	316.44	316.35	38	316.50	0.08	316.38	0.07	11080
2 SEP 75	18208	11080	8	316.71	316.58		316.36	0.00	316.26	0.00	
3 JUL 75	39305	11080	10	316.36	316.26		316.61	0.15	316.51	0.16	
				Wt'd average			61				
9 FEB 73	4293	11085	8	325.57	325.82		325.47	0.07	325.86	0.06	11085
8 MAR 73	4293	11085	8	325.32	325.79		325.47	0.07	325.86	0.06	
22 MAR 73	4293	11085	9	325.51	325.97		325.47	0.07	325.86	0.06	
				Wt'd average			25				
13 DEC 74	18208	18207	4	320.19	320.33		320.14	0.02	320.21	0.02	18207
5 MAR 75	18208	18207	8	320.06	320.21		320.14	0.03	320.22	0.03	
8 APR 75	18208	18207	8	320.14	320.18		320.16	0.00	320.21	0.00	
8 APR 75	18208	18207	8	320.16	320.20	28	320.16	0.00	320.21	0.00	
8 APR 75	34891	18207	9	320.16	320.21	9	320.14	0.02	320.21	0.02	
				Wt'd average			37				
23 JAN 74	4293	34819	7	315.91	316.20		315.89	0.01	316.31	0.10	34819
20 FEB 74	4293	34819	9	315.89	316.39		315.89	0.01	316.31	0.10	
				Wt'd average			16				
20 AUG 74	4293	34965	10	321.26	321.38		321.26	0.00	321.38	0.00	34965
23 SEP 74	18208	34965	8	321.37	321.51		321.37	0.00	321.51	0.00	
				Wt'd average			18				
14 JUL 74	4293	35254	7	320.51	321.23		320.99	0.42	321.37	0.12	35254
20 AUG 74	4293	35254	9	321.35	321.47		320.99	0.42	321.37	0.12	
				Wt'd average			16				
25 JUN 74	4293	35333	8	319.87	320.33		319.80	0.08	320.36	0.04	35333
14 JUL 74	4293	35333	7	319.71	320.40		319.80	0.08	320.36	0.04	
				Wt'd average			15				
9 MAY 74	4293	35343	10	320.58	321.07		320.65	0.08	321.14	0.07	35343
25 JUN 74	4293	35343	9	320.73	321.21		320.65	0.08	321.14	0.07	
				Wt'd average			19				
9 MAY 74	4293	35353	8	320.34	320.83		320.34	0.00	320.83	0.00	35353
				Wt'd average			8				
				Wt'd average			8				

Table 8. N and I Scale Indices of Baring Head Working Reference Gases, Con't. (4)

Date of Analysis	Sub Standard Cylinder No.	Compared Cylinder No.	Single set		Weighted Average			Measured Cylinder No.			
			No. of Comparisons	N	I	No. of Comparisons	N		I		
26 SEP 73	4293	35354	8	318.01	318.22						
9 NOV 73	4293	35354	8	317.83	318.08		16	317.92	0.09	318.15	0.07
				Wt'd average			16	317.92	0.09	318.15	0.07
9 NOV 73	4293	35356	8	317.65	317.89						
20 DEC 73	4293	35356	6	317.77	318.11		14	317.70	0.06	317.98	0.11
				Wt'd average			14	317.70	0.06	317.98	0.11
20 DEC 73	4293	35357	8	317.57	317.89						
23 JAN 74	4293	35357	10	317.53	318.01		18	317.55	0.02	317.96	0.06
				Wt'd average			18	317.55	0.02	317.96	0.06
8 APR 75	18208	39307	6	318.67	318.69						
7 MAY 75	18208	39307	11	318.82	318.85						
15 MAY 75	18208	39307	8	318.73	318.75						
15 MAY 75	18208	39307	12	319.07	319.09						
3 JUN 75	18208	39307	10	318.66	318.74		47	318.81	0.08	318.85	0.07
15 MAY 75	39305	39307	9	318.60	318.62		9	318.60	0.00	318.62	0.00
				Wt'd average			56	318.78	0.07	318.81	0.07
22 DEC 75	10068	39345	4	317.79	317.79						
4 JAN 76	10068	39345	6	317.47	317.34		10	317.60	0.16	317.52	0.22
11 DEC 75	18208	39345	10	317.79	317.79						
22 DEC 75	18208	39345	3	317.79	317.79						
4 JAN 76	18208	39345	4	317.79	317.79		17	317.79	0.00	317.79	0.00
				Wt'd average			27	317.72	0.07	317.69	0.09

Table 9. Comparison of Scripps and Baring Head I Scale Indices of Working Reference Gases

(Baring Head Data from final run of SIR CO₂ - 14. Feb 78)

Working Cylinder No.	2	3	4	5	6	7	8	9
11080	43	324.58	20	324.26	-0.32	324.56	-0.02	14 DEC 72
181	39	325.39	26	325.07	-0.32	325.35	-0.04	31 DEC 72
11085	50	325.84	25	325.47	-0.37	325.86	0.02	9 FEB 73
4273	79	323.19	17	322.66	-0.53	323.02	-0.17	22 MAR 73
1008	31	318.58	21	318.27	-0.31	318.37	-0.21	27 APR 73
10067	28	317.96	25	317.70	-0.26	317.80	-0.16	11 JUN 73
2403	31	318.37	24	318.36	-0.01	318.38	0.01	13 JUL 73
1004	33	317.96	20	317.74	-0.22	317.84	-0.12	16 AUG 73
35354	46	318.28	16	317.92	-0.36	318.15	-0.13	26 SEP 73
35356	46	318.23	14	317.70	-0.53	317.98	-0.25	9 NOV 73
35357	38	318.13	18	317.55	-0.58	317.96	-0.17	20 DEC 73
34819	55	316.43	16	315.89	-0.54	316.31	-0.12	23 JAN 74
					-0.36	Average of 12	-0.11	
					0.16	σ	0.08	
35353	59	320.87	8	320.34	-0.33	320.83	-0.04	8 MAR 74
35343	55	321.12	19	320.65	-0.47	321.14	0.02	22 APR 74
35333	55	320.49	15	319.80	-0.69	320.37	-0.12	1 JUN 74
35254	52	321.45	16	320.99	-0.46	321.37	-0.08	8 JUL 74
34965	52	321.55	18	321.31	-0.24	321.44	-0.11	15 AUG 74
1008	52	319.42	19	319.34	-0.18	319.44	0.02	23 SEP 74
4284	50	319.95	16	319.76	-0.19	319.91	-0.04	4 NOV 74
6060	52	318.81	18	318.85	0.04	318.90	0.09	13 DEC 74

Table 9. Comparison of Scripps and Baring Head I Scale Indices of Working Reference Gases, Con't (2)

(Baring Head Data from final run of SIR CO₂ - 14 Feb 78)

Working Cylinder No.	2	3	4	5	6	7	8	9
10067	53	319.14	17	319.01	-0.13	319.06	-0.08	24 JAN 75
18207	51	320.21	37	320.14	-0.07	320.21	0.00	5 MAR 75
39307	49	318.96	56	318.78	-0.28	Average of 10 σ	0.07	4 APR 75
NZIG3	-	-	61	319.29	-0.18	319.40	-0.15	12 MAY 75
4296	50	321.16	51	320.98	-	321.18	0.02	3 JUN 75
11080	81	316.39	61	316.61	-0.18	316.51	0.12	26 JUN 75
4283	145	315.82	20	316.11	0.22	315.90	0.08	4 AUG 75
NZIG2	-	-	61	320.88	0.29	321.03	-	2 SEP 75
NZIG1	-	-	75	322.55	-	322.72	-	9 OCT 75
NZIG4	54*	319.66*	72	319.12	-	319.56	-0.10	14 OCT 75
6071	50	319.50	100	319.11	-0.54	319.55	0.05	20 OCT 75
39345	49	317.72	27	317.72	0.00	317.69	-0.03	11 DEC 75
					-0.11	Average of 7 σ	0.01	
					0.30		0.09	

* Post-field only (Cylinder No. 2427)

Table 10. Combined Scripps and Baring Head I Indices of Working Reference Gases

(Baring Head Data from final run of SIR CO₂ - 14 Feb 78)

Cylinder No.	At Scripps Pre- and Post-field Combined		At Baring Head		Index Difference BH-SIO	No. of Comparisons	Wtd. Av. Index	Date Use Began
	No. of Comparisons	Wtd. Av. Index	No. of Comparisons	I				
11080	43	324.58	20	324.56	-0.02	63	324.57	14 DEC 72
181	39	325.39	26	325.35	-0.04	65	325.37	31 DEC 72
11085	50	325.84	25	325.86	0.02	75	325.85	9 FEB 73
4273	79	323.19	17	323.02	-0.17	96	323.16	22 MAR 73
1008	31	318.58	21	318.37	-0.21	52	318.50	27 APR 73
10067	28	317.96	25	317.80	-0.16	53	317.88	11 JUN 73
2403	31	318.37	24	318.38	0.01	55	318.37	13 JUL 73
1004	33	317.96	20	317.84	-0.12	53	317.91	16 AUG 73
35354	46	318.28	16	318.15	-0.13	62	318.25	26 SEP 73
35356	46	318.23	14	317.98	-0.25	60	318.17	9 NOV 73
35357	38	318.13	18	317.96	-0.17	56	318.08	20 DEC 73
34819	55	316.43	16	316.31	-0.12	71	316.40	23 JAN 74
35353	59	320.87	8	320.83	-0.04	67	320.87	8 MAR 74
35343	55	321.12	19	321.14	0.02	74	321.13	22 APR 74
35333	55	320.49	15	320.37	-0.12	70	320.46	1 JUN 74
35254	52	321.45	16	321.37	-0.08	68	321.43	8 JUL 74
23965	52	321.55	18	321.44	-0.11	70	321.52	15 AUG 74
1008	52	319.42	19	319.44	0.02	71	319.43	23 SEP 74
4284	50	319.95	16	319.91	-0.04	66	319.94	4 NOV 74
6060	52	318.81	18	318.90	0.09	70	318.83	13 DEC 74
10067	53	319.14	17	319.06	-0.08	70	319.12	23 JAN 75

Table 10. Combined Scripps and Baring Head I Indices of Working Reference Gases, Con't (2)

(Baring Head Data from final run of SIR CO₂ - 14 Feb 78)

Cylinder No.	At Scripps Pre- and Post-field Combined		At Baring Head		Index Difference BH-SIO	No. of Comparisons	Wtd. Av. Index	Date Use Began
	No. of Comparisons	Wtd. Av. Index	No. of Comparisons	I				
18207	51	320.21	37	320.21	0.00	88	320.21	5 MAR 75
39307	49	318.96	56	318.81	-0.15	105	318.88	4 APR 75
NZIG3	-	-	61	319.40	-	61	319.40	12 MAY 75
4296	50	321.16	51	321.18	0.02	101	321.17	3 JUN 75
11080	81	316.39	61	316.51	0.12	142	316.44	26 JUN 75
4283	145	315.82	200	315.90	0.08	165	315.83	4 AUG 75
NZIG2	-	-	61	321.03	-	61	321.03	2 SEP 75
NZIG1	-	-	75	322.72	-	75	322.72	9 OCT 75
NZIG4	54†	319.66†	72	319.56	-0.10	126	319.60	14 OCT 75
6071	50	319.50	100	319.55	0.05	150	319.53	20 OCT 75
* 39345	49	317.72	71	317.69	-0.02	76	317.60	11 DEC 75

† Post-field only (Cylinder no. 2427)

* Cylinder no. 39345. 44 of the 71 comparisons were made in 1976. See following data report.

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head

Interval No.	Time Interval			No. of Hours	Preliminary L Index	Preliminary Adjusted Index	Airport Winds	Comments
	Starting Date	Ending Date	Hour					
1	1900 20 DEC 72	0100 21 DEC 72		7	320.21	322.11	19-S-16	
2	1100 21 DEC 72	1800 21 DEC 72		8	320.48	322.44	18-S-27	
3	1900 21 DEC 72	0400 22 DEC 72		10	320.80	322.83	18-S-20	
	1900 23 DEC 72	0400 24 DEC 72		10	321.26	323.39	36-N-22	
4	1200 27 DEC 72	1800 27 DEC 72		7	320.27	322.18	17-S-14	
	2200 4 JAN 73	0300 5 JAN 73		6	322.36	324.73	01-N-19	
5	0800 6 JAN 73	1800 6 JAN 73		11	320.82	322.85	19-S-08	
6	1100 9 JAN 73	1600 9 JAN 73		6	320.82	322.85	18-S-14	
7	1700 12 JAN 73	0200 13 JAN 73		10	320.90	322.95	17-S-25	
8	1000 13 JAN 73	1600 13 JAN 73		7	320.09	321.96	19-S-13	
	2000 14 JAN 73	0100 15 JAN 73		6	321.14	323.24	02-N-20	
9	2000 16 JAN 73	0800 17 JAN 73		13	320.68	322.68	20-S-07	
10	0900 17 JAN 73	1500 17 JAN 73		7	320.36	322.29	19-S-10	
	0900 20 JAN 73	1400 20 JAN 73		6	319.34	321.05	01-N-18	
	2200 25 JAN 73	0400 26 JAN 73		7	321.38	323.54	01-N-25	
	2200 5 FEB 73	0400 6 FEB 73		7	321.74	323.98	19-S-10	
12	0300 8 FEB 73	1900 8 FEB 73		17	320.38	322.32	17-S-15	
	1100 10 FEB 73	1600 10 FEB 73		6	320.63	322.62	35-N-29	
	1800 10 FEB 73	0000 11 FEB 73		7	321.37	323.52	35-N-28	
13	0200 11 FEB 73	1000 11 FEB 73		9	320.84	322.88	18-S-12	
14	1300 12 FEB 73	1900 12 FEB 73		7	320.52	322.49	17-S-25	
15	2000 12 FEB 73	0200 13 FEB 73		7	320.75	322.77	16-S-20	
16	0300 13 FEB 73	1400 13 FEB 73		12	320.32	322.25	17-S-17	
17	1500 13 FEB 73	2100 13 FEB 73		7	320.61	322.60	17-S-11	
18	1200 14 FEB 73	1900 14 FEB 73		8	320.60	322.59	18-S-16	
19	0600 17 FEB 73	2300 17 FEB 73		18	321.11	323.21	17-S-12	
20	0200 18 FEB 73	1500 18 FEB 73		14	320.73	322.75	18-S-11	
21	1800 21 FEB 73	0100 22 FEB 73		8	321.62	323.83	18-S-12	
22	1000 22 FEB 73	2300 22 FEB 73		14	321.14	323.24	17-S-12	
23	0000 23 FEB 73	1800 23 FEB 73		18	320.98	323.05	17-S-11	
	1200 25 FEB 73	1700 25 FEB 73		6	321.82	324.07	36-N-17	
	0600 3 MAR 73	1300 3 MAR 73		8	323.60	326.24	35-N-22	
	2100 3 MAR 73	0300 4 MAR 73		7	322.65	325.08	36-N-14	

*1600 missing - calib cycle

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head, Con't. (2)

Interval No.	Time Interval		No. of Hours	Preliminary L Index	Preliminary Adjusted Index	Airport Winds	Comments		
	Starting Date	Ending Date							
24	1900	6 MAR 73	0500	7 MAR 73	11	321.11	323.21	16-S-15	
25	1800	9 MAR 73	2300	9 MAR 73	6	321.06	323.15	18-S-18	
26	0000	10 MAR 73	1500	10 MAR 73	16	321.07	323.16	17-S-13	
27	0400	12 MAR 73	1900	12 MAR 73	16	321.30	323.44	16-SE-12	
28	2300	12 MAR 73	0700	13 MAR 73	9	321.26	323.39	18-S-13	
29	1100	17 MAR 73	1600	17 MAR 73	6	321.14	323.24	16-S-15	
	0100	20 MAR 73	0700	20 MAR 73	7	322.07	324.38	36-N-21	
	0900	20 MAR 73	1400	20 MAR 73	6	321.12	323.22	36-N-20	
30	0100	21 MAR 73	1300	21 MAR 73	13	321.50	323.68	19-S-11	
31	1200	24 MAR 73	0100	25 MAR 73	14	321.51	323.70	19-S-24	
32	1800	25 MAR 73	2300	25 MAR 73	6	321.42	323.59	19-S-14	
33	0000	26 MAR 73	2300	26 MAR 73	24	321.28	323.42	18-S-17	
34	0000	27 MAR 73	0700	27 MAR 73	8	321.25	323.38	18-S-15	
35	0800	27 MAR 73	1700	27 MAR 73	10	321.02	323.10	18-S-13	
	0100	29 MAR 73	0600	29 MAR 73	6	322.49	324.89	04-NE-12	
36	1700	30 MAR 73	2200	30 MAR 73	6	321.31	323.45	20-S-09	
	1700	31 MAR 73	0300	1 APR 73	11	321.84	324.10	35-N-23	
37	1300	1 APR 73	0000	2 APR 73	12	321.53	323.72	19-S-24	
38	0100	2 APR 73	1200	2 APR 73	12	321.28	323.42	19-S-26	
39	1500	2 APR 73	2300	2 APR 73	9	321.29	323.43	18-S-25	
40	0000	3 APR 73	1600	3 APR 73	17	321.18	323.29	18-S-20	
41	1700	3 APR 73	2300	3 APR 73	7	321.28	323.42	18-S-19	
42	0000	4 APR 73	2300	4 APR 73	24	321.28	323.42	18-S-17	
43	0000	5 APR 73	0300	6 APR 73	28	321.28	323.42	18-S-15	
44	0800	6 APR 73	1700	6 APR 73	10	321.10	323.20	19-S-10	
45	1000	9 APR 73	1600	9 APR 73	7	321.09	323.18	18-S-12	
46	0900	11 APR 73	1500	11 APR 73	7	320.98	323.05	18-S-14	
47	1700	13 APR 73	2300	13 APR 73	7	321.44	323.61	17-S-18	
48	0000	14 APR 73	1600	14 APR 73	17	321.31	323.45	18-S-13	
	1900	16 APR 73	0100	17 APR 73	7	322.50	324.90	33-NW-16	
49	0400	17 APR 73	1800	17 APR 73	15	321.26	323.39	17-S-13	
	1800	21 APR 73	0000	22 APR 73	7	322.42	324.80	35-N-15	
	0400	23 APR 73	0900	23 APR 73	6	321.81	324.06	35-N-34	
	2300	23 APR 73	0400	24 APR 73	6	322.00	324.29	35-N-22	
50	1100	24 APR 73	1700	24 APR 73	7	321.64	323.85	17-S-14	
51	1100	30 APR 73	1600	30 APR 73	6	321.03	323.11	20-SW-9	

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head, Con't. (3)

Interval No.	Time Interval			No. of Hours	Preliminary L Index	Preliminary Adjusted Index	Airport Winds	Comments
	Starting Date	Hour	Ending Date					
	1700	3 MAY 73	2200	6	321.80	324.05	36-N-20	
	2200	4 MAY 73	0400	7	322.65	325.08	35-N-15	
	1700	8 MAY 73	2200	6	320.85	322.89	35-N-26	
	2200	9 MAY 73	0400	7	322.02	324.32	33-NW-12	
52	1500	13 MAY 73	2300	9	321.02	323.10	16-SE-17	
53	0000	14 MAY 73	0800	9	321.06	323.15	16-S-20	
54	1500	14 MAY 73	2300	9	321.16	323.27	17-S-20	
55	0000	15 MAY 73	0800	9	321.16	323.27	17-S-15	
56	2000	20 MAY 73	0300	8	321.54	323.73	18-S-14	
57	1700	25 MAY 73	0200	10	321.35	323.50	17-S-12	
	1200	28 MAY 73	1700	6	320.88	322.93	35-N-15	
	0000	30 MAY 73	0500	6	321.76	324.00	34-N-19	
	1700	1 JUN 73	2200	6	321.81	324.06	01-N-18	
	0200	2 JUN 73	0700	6	322.47	324.87	02-N-14	
	1700	2 JUN 73	2200	6	322.40	324.78	01-N-15	
	0900	4 JUN 73	1500	7	322.93	325.43	36-N-17	
	1700	8 JUN 73	2300	7	321.66	323.88	35-N-14	
58	1600	13 JUN 73	2100	6	321.32	323.46	16-SE-10	
59	0000	14 JUN 73	2200	23	321.32	323.46	15-SE-13	
60	2300	14 JUN 73	1300	15	321.17	323.28	16-S-12	
61	1700	15 JUN 73	2300	7	321.21	323.33	17-S-16	
62	1300	16 JUN 73	2000	8	321.22	323.34	18-S-16	
63	2300	16 JUN 73	0600	8	321.42	323.59	17-S-17	
64	1400	17 JUN 73	2300	10	321.19	323.31	17-S-15	
65	0000	18 JUN 73	1300	14	321.28	323.42	16-S-09	
66	1600	19 JUN 73	2100	6	322.29	324.65	17-S-07	
	1700	22 JUN 73	2300	7	323.24	325.80	02-NE-07	
	0000	23 JUN 73	0600	7	322.88	325.36	02-N-06	
	2000	25 JUN 73	0100	6	322.13	324.45	36-N-16	
67	2100	27 JUN 73	0600	10	321.51	323.70	17-S-12	
68	0300	29 JUN 73	0900	7	321.75	323.99	17-S-14	
69	1500	30 JUN 73	2300	9	321.67	323.89	18-S-16	
70	0100	1 JUL 73	2000	20	321.43	323.60	17-S-16	
71	2100	1 JUL 73	0600	10	321.63	323.84	16-S-11	

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head, Cont. (4)

Interval No.	Time Interval				No. of Hours	Preliminary L Index	Preliminary Adjusted Index	Airport Winds	Comments
	Hour	Starting Date	Hour	Ending Date					
72	1700	5 JUL 73	0200	6 JUL 73	10	322.30	324.66	36-N-15	
73	0400	6 JUL 73	0900	6 JUL 73	6	322.98	325.49	01-N-12	
74	1700	6 JUL 73	2200	6 JUL 73	6	322.03	324.33	18-S-27	
75	0100	7 JUL 73	1700	7 JUL 73	17	321.57	323.77	17-S-15	
76	0800	10 JUL 73	2300	10 JUL 73	16	321.76	324.00	17-S-20	
77	0000	11 JUL 73	2300	11 JUL 73	24	321.71	323.94	16-SE-17	
78	0000	12 JUL 73	0600	12 JUL 73	7	322.17	324.50	14-SE-07	
79	1600	12 JUL 73	2300	12 JUL 73	8	321.63	323.84	16-S-09	
80	0000	13 JUL 73	2300	13 JUL 73	8	321.45	323.62	16-SE-11	
81	0000	14 JUL 73	0400	15 JUL 73	29	321.43	323.60	17-S-15	
82	0500	15 JUL 73	1600	15 JUL 73	12	321.58	323.78	16-S-10	
83	1900	15 JUL 73	0000	16 JUL 73	6	322.51	324.91	08-B-02	
84	2300	16 JUL 73	0600	17 JUL 73	8	323.56	326.19	05-NE-05	
85	1900	24 JUL 73	0100	25 JUL 73	7	322.46	324.85	19-S-08	
86	1800	25 JUL 73	0400	26 JUL 73	11	322.00	324.29	18-S-24	
87	0600	26 JUL 73	1100	26 JUL 73	6	321.93	324.21	18-S-24	
88	1200	26 JUL 73	2300	26 JUL 73	12	321.70	323.93	18-S-24	
89	0000	27 JUL 73	2300	27 JUL 73	24	321.79	324.04	17-S-16	
90	0000	28 JUL 73	0700	28 JUL 73	8	321.78	324.02	17-S-12	
91	1500	28 JUL 73	2300	28 JUL 73	9	321.86	324.12	18-S-13	
92	0000	29 JUL 73	1600	29 JUL 73	17	322.06	324.37	19-S-21	
93	1700	29 JUL 73	0000	30 JUL 73	8	321.80	324.05	19-S-21	
94	0100	30 JUL 73	0700	30 JUL 73	7	322.07	324.38	20-S-21	
95	0800	30 JUL 73	2300	30 JUL 73	16	321.86	324.12	18-S-14	
96	0000	31 JUL 73	0300	1 AUG 73	28	321.81	324.06	18-S-13	
97	2000	3 AUG 73	0100	4 AUG 73	6	322.16	324.49	20-SW-20	
98	0200	4 AUG 73	1400	4 AUG 73	13	322.36	324.73	19-S-13	
99	2300	4 AUG 73	0400	5 AUG 73	6	322.41	324.79	36-N-22	
100	1800	5 AUG 73	2300	5 AUG 73	6	323.13	325.67	01-N-11	
101	0300	6 AUG 73	1100	6 AUG 73	9	322.15	324.48	15-SE-09	
102	1200	6 AUG 73	2100	6 AUG 73	10	321.95	324.23	17-S-10	
103	2200	6 AUG 73	1000	7 AUG 73	13	322.24	324.59	19-S-20	
104	1200	7 AUG 73	0000	8 AUG 73	13	321.63	323.84	18-S-25	
105	0500	8 AUG 73	1100	8 AUG 73	7	321.95	324.23	18-S-26	
106	1500	8 AUG 73	0400	9 AUG 73	14	321.58	323.78	19-S-24	
107	1800	10 AUG 73	0300	11 AUG 73	10	322.35	324.72	36-N-16	

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head, Con't. (5)

Interval No.	Time Interval		No. of Hours	Preliminary L Index	Preliminary Adjusted Index	Airport Winds	Comments	
	Starting Date	Ending Date						
	2200	14 AUG 73	0300	15 AUG 73	6	323.42	326.02	36-N-10
101	0400	16 AUG 73	1000	16 AUG 73	7	321.94	324.22	17-S-14
102	2100	16 AUG 73	1100	17 AUG 73	15	321.95	324.23	17-S-23
103	1200	17 AUG 73	1900	17 AUG 73	8	321.84	324.10	18-S-20
104	2000	17 AUG 73	2300	18 AUG 73	28	321.95	324.23	17-S-17
105	0000	19 AUG 73	1700	19 AUG 73	18	321.78	324.02	17-S-14
106	0700	21 AUG 73	1400	21 AUG 73	8	322.56	324.97	18-S-12
107	1700	21 AUG 73	2200	21 AUG 73	6	322.00	324.29	19-S-27
108	2300	21 AUG 73	2300	22 AUG 73	25	322.10	324.41	17-S-30
109	0000	23 AUG 73	1100	23 AUG 73	12	322.09	324.40	18-S-26
110	1400	23 AUG 73	0000	24 AUG 73	11	321.73	323.96	17-S-18
	1800	31 AUG 73	2300	31 AUG 73	6	322.73	325.18	36-N-17
	1900	1 SEP 73	0000	2 SEP 73	6	323.90	326.61	36-N-12
111	1700	2 SEP 73	2300	2 SEP 73	7	321.92	324.20	17-S-10
	2200	5 SEP 73	0400	6 SEP 73	7	323.07	325.60	36-N-16
112	1900	7 SEP 73	0500	8 SEP 73	11	322.09	324.40	18-S-26
113	0600	8 SEP 73	1200	8 SEP 73	7	322.43	324.82	19-S-29
114	1600	8 SEP 73	0000	9 SEP 73	9	321.87	324.13	19-S-23
115	1200	9 SEP 73	2100	9 SEP 73	10	321.85	324.11	18-S-15
	2000	10 SEP 73	0100	11 SEP 73	6	323.17	325.72	02-N-18
	1800	11 SEP 73	0100	12 SEP 73	8	321.96	324.24	35-N-22
	1800	13 SEP 73	0300	14 SEP 73	10	322.52	324.93	35-N-27
	1700	14 SEP 73	0000	15 SEP 73	8	321.73	323.96	34-N-27
116	0000	16 SEP 73	1000	16 SEP 73	11	321.99	324.28	16-S-14
117	1100	16 SEP 73	1700	16 SEP 73	7	321.79	324.04	15-SE-12
	0000	1 OCT 73	0500	1 OCT 73	6	323.33	325.91	01-N-23
118	1700	1 OCT 73	0000	2 OCT 73	8	322.20	324.54	17-S-15
119	1600	3 OCT 73	0000	4 OCT 73	9	322.15	324.48	19-S-17
120	0400	4 OCT 73	1300	4 OCT 73	10	322.93	325.43	19-S-22
121	1400	4 OCT 73	2000	4 OCT 73	7	322.58	325.00	17-S-11
	1800	5 OCT 73	2300	5 OCT 73	6	322.96	325.46	36-N-21
	0000	6 OCT 73	0500	6 OCT 73	6	323.19	325.74	35-N-22
	1900	6 OCT 73	0300	7 OCT 73	9	323.14	325.68	35-N-15
	1900	10 OCT 73	0500	11 OCT 73	11	322.66	325.10	01-N-21
	0000	13 OCT 73	0600	13 OCT 73	7	323.62	326.27	02-N-18

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head, Con't. (6)

Interval No.	Time Interval		No. of Hours	Preliminary L Index	Preliminary Adjusted Index	Airport Winds	Comments
	Starting Date	Ending Date					
122	0500	17 OCT 73	1200	322.52	324.93	17-S-16	
123	1300	17 OCT 73	1900	322.31	324.67	15-SE-10	
	2100	20 OCT 73	0500	322.54	324.95	34-NW-25	
	2100	22 OCT 73	0500	323.47	326.08	35-N-20	
124	2000	23 OCT 73	0300	322.28	324.63	18-S-22	
125	0700	24 OCT 73	1800	322.21	324.55	18-S-20	
126	1900	24 OCT 73	0100	322.31	324.67	16-S-11	
127	1100	25 OCT 73	1700	321.90	324.17	17-S-14	
128	1000	27 OCT 73	1900	321.85	324.11	17-S-14	
129	1800	7 NOV 73	0300	323.42	326.02	33-NW-20	
130	1800	9 NOV 73	0200	322.39	324.77	17-S-13	
131	0600	10 NOV 73	1800	322.36	324.73	18-S-12	
132	1200	14 NOV 73	2300	322.04	324.34	16-S-17	
133	0000	15 NOV 73	1100	322.24	324.59	16-S-16	
134	2300	15 NOV 73	0500	322.91	325.40	16-S-10	
	0600	19 NOV 73	1300	322.41	324.79	19-S-16	
	2200	23 NOV 73	0500	323.03	325.55	34-N-27	
135	0500	28 NOV 73	1400	322.09	324.40	17-S-12	
136	1800	28 NOV 73	0100	322.40	324.78	18-S-06	
137	0700	29 NOV 73	1200	321.30	323.44	16-S-12	
138	1400	29 NOV 73	2000	321.83	324.09	17-S-13	
139	1500	2 DEC 73	2000	322.56	324.97	15-SE-13	
140	1200	6 DEC 73	1700	321.97	324.26	18-SE-09	
141	0700	9 DEC 73	1200	321.98	324.27	18-SE-25	
142	1300	9 DEC 73	1800	322.14	324.46	17-SE-19	
143	0900	11 DEC 73	2100	321.92	324.20	17-SE-14	
144	2200	11 DEC 73	0300	322.27	324.62	17-SE-10	
145	1200	12 DEC 73	1600	322.01	324.30	18-SE-08	
	2200	17 DEC 73	0500	323.05	325.57	36-NE-18	
146	1300	18 DEC 73	0000	322.22	324.56	19-SE-27	
147	0400	19 DEC 73	2300	322.12	324.44	18-SE-20	
148	0000	20 DEC 73	0900	322.13	324.45	17-SE-10	
149	1500	20 DEC 73	2300	322.01	324.30	17-SE-13	
150	0000	21 DEC 73	2000	322.06	324.37	16-SE-12	
152	1900	2 JAN 74	0100	323.41	326.01	36-NW-20	*0000 missing - calib cycle
153	1600	3 JAN 74	2100	322.03	324.33	17-SW-14	
	0700	4 JAN 74	1300	321.46	323.63	17-SW-13	
	1800	7 JAN 74	2300	322.86	325.34	35-NW-25	
154	0100	9 JAN 74	0600	321.62	323.83	17-SW-14	
155	0900	9 JAN 74	1400	322.43	324.82	17-SW-20	
156	1500	9 JAN 74	2300	321.96	324.24	17-S-23	
157	0100	10 JAN 74	2000	321.95	324.23	17-S-20	
158	1100	12 JAN 74	2300	322.13	324.45	16-S-15	
159	0100	13 JAN 74	0700	322.07	324.38	15-SE-16	

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head, Cont. (7)

Interval No.	Time Interval				No. of Hours	Preliminary L Index	Preliminary Adjusted Index	Airport Winds	Comments
	Starting Hour	Starting Date	Ending Hour	Ending Date					
160	1100	13 JAN 74	1900	13 JAN 74	9	322.30	324.66	19-S-11	
	1000	15 JAN 74	1500	15 JAN 74	6	321.36	323.51	36-N-24	
	0700	16 JAN 74	1300	16 JAN 74	7	321.75	323.99	36-N-14	
161	2300	16 JAN 74	0500	17 JAN 74	6	321.82	324.07	17-S-21	*0000 missing - calib cycle
162	0600	17 JAN 74	1700	17 JAN 74	12	322.04	324.34	17-S-16	
163	1700	19 JAN 74	2300	19 JAN 74	7	321.88	324.15	17-S-14	
164	0100	20 JAN 74	0600	20 JAN 74	6	322.32	324.68	17-S-10	
165	1600	23 JAN 74	2200	23 JAN 74	7	321.68	323.90	17-S-14	
166	0400	24 JAN 74	0900	24 JAN 74	6	322.12	324.44	20-S-07	
167	1000	24 JAN 74	2300	24 JAN 74	14	321.80	324.05	19-S-25	
168	0000	25 JAN 74	1400	25 JAN 74	15	321.88	324.15	18-S-23	
169	1500	25 JAN 74	2000	25 JAN 74	6	321.89	324.16	17-S-13	
170	1000	26 JAN 74	1500	26 JAN 74	6	321.83	324.09	01-N-17	
171	1500	27 JAN 74	2000	27 JAN 74	6	322.04	324.34	17-S-13	
172	1200	29 JAN 74	1900	29 JAN 74	8	321.82	324.07	19-S-13	
	0700	31 JAN 74	1400	31 JAN 74	8	321.86	324.12	17-S-15	
	2000	1 FEB 74	0600	2 FEB 74	10	323.15	325.69	01-N-17	*0000 missing - calib cycle
	0200	3 FEB 74	0800	3 FEB 74	7	322.70	325.15	36-N-16	
173	1700	5 FEB 74	2200	5 FEB 74	6	322.92	325.41	21-SW-06	
	0100	10 FEB 74	0600	10 FEB 74	6	322.32	324.68	36-N-17	
174	1300	10 FEB 74	1900	10 FEB 74	7	322.05	324.35	17-S-13	
175	0100	11 FEB 74	0800	11 FEB 74	8	321.70	323.93	17-S-16	
176	1200	11 FEB 74	1900	11 FEB 74	8	321.30	323.44	16-S-19	
177	2000	15 FEB 74	0500	16 FEB 74	9	321.17	323.28	18-S-23	*0000 missing - calib cycle
178	0700	16 FEB 74	0400	17 FEB 74	21	321.34	323.49	18-S-19	*0000 missing - calib cycle
179	0600	17 FEB 74	2300	17 FEB 74	18	321.29	323.43	18-S-19	
180	0100	18 FEB 74	1100	18 FEB 74	11	321.32	323.46	18-S-15	
181	0200	21 FEB 74	1100	21 FEB 74	10	321.54	323.73	20-S-16	
182	1200	21 FEB 74	2200	21 FEB 74	11	321.39	323.55	17-S-21	
183	0400	24 FEB 74	0900	24 FEB 74	6	322.72	325.17	19-S-08	
184	1200	25 FEB 74	1700	25 FEB 74	6	321.77	324.01	19-S-13	
185	1800	26 FEB 74	0100	27 FEB 74	7	321.21	323.33	18-S-19	*0000 missing - calib cycle
186	0100	1 MAR 74	0700	1 MAR 74	7	321.65	323.87	20-S-27	
187	1400	1 MAR 74	1900	1 MAR 74	6	321.11	323.21	20-SW-32	
188	2000	1 MAR 74	0200	2 MAR 74	6	321.00	323.07	20-SW-27	*0000 missing - calib cycle
189	0900	3 MAR 74	1400	3 MAR 74	6	321.29	323.43	19-S-25	

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head, Con't. (8)

Interval No.	Time Interval		No. of Hours	Preliminary L Index	Preliminary Adjusted Index	Airport Winds	Comments
	Starting Date	Ending Date					
190	1600 3 MAR 74	2200 3 MAR 74	7	321.37	323.52	18-S-12	
191	0800 6 MAR 74	1600 6 MAR 74	9	320.58	322.56	01-N-25	analyser malfunctioning
192	0900 7 MAR 74	1400 7 MAR 74	6	321.18	323.29	18-S-14	analyser malfunctioning
193	2100 15 MAR 74	0800 16 MAR 74	11	322.16	324.49	19-S-26	*0000 missing - calib cycle
194	0900 16 MAR 74	2300 16 MAR 74	15	322.00	324.29	18-S-24	
195	0100 17 MAR 74	1100 17 MAR 74	11	321.94	324.22	18-S-26	
196	1300 17 MAR 74	2300 17 MAR 74	11	321.96	324.24	18-S-33	
197	0100 18 MAR 74	0900 18 MAR 74	9	321.92	324.20	18-S-38	
198	1200 21 MAR 74	1900 21 MAR 74	8	321.99	324.28	19-S-10	
199	1200 22 MAR 74	2100 22 MAR 74	10	321.65	323.87	18-S-07	
200	1200 23 MAR 74	1900 23 MAR 74	8	321.73	323.96	18-S-13	
201	1200 24 MAR 74	1800 24 MAR 74	7	321.35	323.50	18-S-13	
202	1500 26 MAR 74	2200 26 MAR 74	8	321.70	323.93	18-S-18	2300 missing - calib cycle
	0000 27 MAR 74	1200 27 MAR 74	13	321.63	323.84	17-S-10	
203	1000 6 APR 74	2200 6 APR 74	13	321.81	324.06	18-S-20	2300 missing - calib cycle
204	0000 7 APR 74	0600 7 APR 74	7	321.84	324.10	18-S-14	
205	1400 10 APR 74	2200 10 APR 74	9	321.58	323.78	18-S-22	2300 missing - calib cycle
206	0000 11 APR 74	1800 11 APR 74	17	321.76	324.00	18-S-13	*1300 & 1400 missing - power fail.
207	0900 21 APR 74	1100 22 APR 74	27	321.71	323.94	18-S-32	
208	1200 22 APR 74	2300 22 APR 74	12	321.67	323.89	18-S-33	
209	0000 23 APR 74	2300 23 APR 74	24	321.61	323.82	18-S-34	
210	0000 24 APR 74	2300 24 APR 74	24	321.64	323.85	19-S-28	
211	0000 25 APR 74	1800 25 APR 74	19	321.70	323.93	19-S-17	
212	1000 26 APR 74	2300 26 APR 74	14	321.97	324.26	20-S-35	
213	0000 27 APR 74	2300 27 APR 74	24	321.82	324.07	20-S-45	
214	0000 28 APR 74	2300 28 APR 74	24	321.68	323.90	19-S-40	
215	0000 29 APR 74	2000 29 APR 74	20	321.76	324.00	18-S-25	*0900 missing - freezer change
216	2000 3 MAY 74	0200 4 MAY 74	7	321.90	324.17	19-S-33	
217	0300 4 MAY 74	0800 4 MAY 74	6	322.05	324.35	19-S-30	
	1900 7 MAY 74	0200 8 MAY 74	8	322.64	325.07	36-N-19	
218	0500 8 MAY 74	1400 8 MAY 74	10	322.15	324.48	18-S-20	
219	1500 8 MAY 74	2000 8 MAY 74	6	322.22	324.56	20-S-30	
220	2100 8 MAY 74	0200 9 MAY 74	6	322.08	324.39	21-SW-30	
221	1100 11 MAY 74	1600 11 MAY 74	6	321.89	324.16	18-S-15	
	1700 12 MAY 74	2300 12 MAY 74	7	322.46	324.85	02-N-20	

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head, Con't. (9)

Interval No.	Time Interval				No. of Hours	Preliminary Index	Preliminary Adjusted Index	Airport Winds	Comments
	Starting Hour	Starting Date	Ending Hour	Ending Date					
222	1100	13 MAY 74	1800	13 MAY 74	8	321.96	324.24	18-S-14	
	0100	25 MAY 74	0700	25 MAY 74	7	322.76	325.22	34-NW-21	
223	1500	29 MAY 74	2300	29 MAY 74	9	322.21	324.55	21-SW-36	0000 missing - calib cycle
224	0100	30 MAY 74	1100	30 MAY 74	11	322.37	324.74	19-S-25	
225	1400	2 JUN 74	2300	2 JUN 74	10	322.28	324.63	18-S-30	
226	0100	3 JUN 74	2100	3 JUN 74	21	322.12	324.44	19-S-34	0000 missing - calib cycle
227	2200	3 JUN 74	0400	4 JUN 74	6	322.17	324.50	18-S-27	*0000 missing - calib cycle
228	0800	4 JUN 74	1700	4 JUN 74	10	321.98	324.27	18-S-20	
229	0200	12 JUN 74	0900	12 JUN 74	8	321.92	324.20	19-S-31	
230	1000	12 JUN 74	2300	12 JUN 74	14	322.10	324.41	18-S-35	
231	0000	13 JUN 74	0200	14 JUN 74	27	322.10	324.41	17-S-30	
232	0100	16 JUN 74	2300	16 JUN 74	23	322.09	324.40	18-S-43	
233	0000	17 JUN 74	1900	17 JUN 74	20	322.03	324.33	18-S-36	
234	0000	18 JUN 74	1500	18 JUN 74	16	322.29	324.65	21-SW-30	
235	1600	18 JUN 74	2300	18 JUN 74	8	322.01	324.30	20-SW-34	
236	0000	19 JUN 74	1500	19 JUN 74	16	322.28	324.63	21-SW-28	
237	1600	19 JUN 74	2300	19 JUN 74	8	322.00	324.29	19-S-31	
238	0000	20 JUN 74	1800	20 JUN 74	19	322.12	324.44	20-S-20	
	0100	22 JUN 74	0800	22 JUN 74	8	322.40	324.78	36-N-28	
	1700	22 JUN 74	2300	22 JUN 74	7	322.80	325.27	36-N-20	
	0000	23 JUN 74	0600	23 JUN 74	7	322.67	325.11	36-N-18	
	1900	23 JUN 74	0300	24 JUN 74	9	322.64	325.07	01-N-22	
	0400	24 JUN 74	1100	24 JUN 74	7	322.39	324.77	33-NW-20	*0900 missing - freezer change
	2200	24 JUN 74	0400	25 JUN 74	7	322.48	324.88	36-N-22	
	2000	26 JUN 74	0800	27 JUN 74	12	323.14	325.68	36-N-20	*0000 missing - calib cycle
239	0400	3 JUL 74	2300	3 JUL 74	20	322.50	324.90	18-S-29	
240	0100	4 JUL 74	2300	4 JUL 74	23	322.51	324.91	18-S-25	0000 missing - calib cycle
241	0100	5 JUL 74	2300	5 JUL 74	22	322.34	324.71	18-S-23	*0000 & 2000 missing - calib cycle
242	0000	6 JUL 74	2300	6 JUL 74	23	322.35	324.72	19-S-27	*2000 missing - calib cycle
243	0000	7 JUL 74	2300	7 JUL 74	23	322.38	324.76	17-S-16	*2000 missing - calib cycle
244	0100	8 JUL 74	1600	8 JUL 74	16	322.37	324.74	17-S-10	
245	0100	10 JUL 74	1700	10 JUL 74	17	322.87	325.35	18-S-16	
246	0400	11 JUL 74	0900	11 JUL 74	6	322.67	325.11	18-S-08	
247	1700	11 JUL 74	2300	11 JUL 74	7	322.34	324.71	19-S-28	
248	0000	12 JUL 74	0700	12 JUL 74	8	322.64	325.07	20-S-20	

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head, Cont. (10)

Interval No.	Time Interval			No. of Hours	Preliminary Index	Preliminary Adjusted Index	Airport Winds	Comments
	Starting Date	Ending Date	Hour					
249	0200 15 JUL 74	0800 15 JUL 74	0800	7	323.89	326.60	01-N-14	
	0100 19 JUL 74	0800 19 JUL 74	0800	8	323.10	325.63	36-N-26	
	1000 19 JUL 74	1500 19 JUL 74	1500	6	322.49	324.89	36-N-45	
	1600 19 JUL 74	2300 19 JUL 74	2300	8	323.26	325.83	35-N-30	
	0000 20 JUL 74	0800 20 JUL 74	0800	9	323.44	326.05	36-N-20	
	2100 21 JUL 74	0200 22 JUL 74	0200	6	323.40	326.00	36-N-18	
	1800 22 JUL 74	0000 23 JUL 74	0000	7	322.98	325.49	36-N-30	
	1700 24 JUL 74	2300 24 JUL 74	2300	7	323.33	325.91	01-N-17	
	0600 26 JUL 74	1300 26 JUL 74	1300	8	323.23	325.79	19-S-27	
	0000 30 JUL 74	0600 30 JUL 74	0600	7	323.92	326.63	36-N-15	
250	0400 1 AUG 74	1100 1 AUG 74	1100	8	322.94	325.44	19-S-12	
	0300 3 AUG 74	0800 3 AUG 74	0800	6	323.76	326.44	36-N-14	
251	0000 7 AUG 74	2300 7 AUG 74	2300	24	322.69	325.13	18-S-30	
252	0000 8 AUG 74	1100 8 AUG 74	1100	12	322.61	325.04	15-SE-13	
253	1200 8 AUG 74	1700 8 AUG 74	1700	6	322.18	324.51	15-SE-9	
254	2000 8 AUG 74	1000 9 AUG 74	1000	15	323.06	325.58	15-SE-5	
255	1200 10 AUG 74	2200 10 AUG 74	2200	11	322.61	325.04	17-S-15	
256	0800 11 AUG 74	1400 11 AUG 74	1400	7	322.75	325.21	18-S-14	
257	1500 11 AUG 74	2300 11 AUG 74	2300	9	322.52	324.93	19-S-16	
258	0000 12 AUG 74	0600 12 AUG 74	0600	7	322.58	325.00	19-S-19	
259	1900 13 AUG 74	1300 14 AUG 74	1300	19	322.55	324.96	17-S-15	
260	1700 14 AUG 74	0400 15 AUG 74	0400	12	322.59	325.01	17-S-14	
261	1300 18 AUG 74	2300 18 AUG 74	2300	11	322.88	325.36	20-S-37	
262	0000 19 AUG 74	0600 19 AUG 74	0600	7	322.92	325.41	20-S-36	
263	0700 19 AUG 74	1200 19 AUG 74	1200	6	323.10	325.63	20-S-33	
264	1300 19 AUG 74	1900 19 AUG 74	1900	7	322.98	325.49	19-S-25	
265	2000 19 AUG 74	0100 20 AUG 74	0100	6	322.56	324.97	19-S-18	
266	0200 20 AUG 74	0800 20 AUG 74	0800	7	322.33	324.69	20-SW-14	
267	2100 22 AUG 74	0200 23 AUG 74	0200	6	322.81	325.28	19-S-34	
268	0400 23 AUG 74	1200 23 AUG 74	1200	9	323.29	325.86	20-S-36	
269	1400 23 AUG 74	2100 23 AUG 74	2100	8	322.72	325.17	20-SW-29	
270	0300 24 AUG 74	1200 24 AUG 74	1200	10	323.30	325.88	20-SW-43	
271	1700 24 AUG 74	2200 24 AUG 74	2200	6	322.72	325.17	21-SW-47	
272	2300 24 AUG 74	1600 25 AUG 74	1600	18	322.90	325.39	19-S-35	
273	1800 25 AUG 74	0100 26 AUG 74	0100	8	322.74	325.19	19-S-20	
274	1300 26 AUG 74	2000 26 AUG 74	2000	8	323.08	325.61	19-S-12	

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head, Cont. (11)

Interval No.	Time Interval				No. of Hours	Preliminary Index	Preliminary Adjusted Index	Airport Winds	Comments
	Starting Hour	Starting Date	Ending Hour	Ending Date					
275	2100	26 AUG 74	0500	27 AUG 74	9	322.76	325.22	20-SW-25	
276	1600	27 AUG 74	2300	27 AUG 74	8	322.84	325.32	19-S-31	
277	0000	28 AUG 74	0500	28 AUG 74	6	322.80	325.27	20-SW-34	
278	0600	28 AUG 74	1300	28 AUG 74	8	323.19	325.74	20-S-29	
279	2000	29 AUG 74	0600	30 AUG 74	11	322.73	325.18	17-S-18	
280	0000	3 SEP 74	0500	3 SEP 74	6	323.13	325.67	19-S-21	
281	1600	3 SEP 74	2300	3 SEP 74	8	322.94	325.44	16-S-20	
282	1100	4 SEP 74	1700	4 SEP 74	7	322.88	325.36	17-S-18	
283	2100	5 SEP 74	0600	6 SEP 74	10	322.76	325.22	20-S-16	
284	1600	9 SEP 74	2100	9 SEP 74	6	322.99	325.50	20-S-37	
285	0100	10 SEP 74	1200	10 SEP 74	12	323.82	326.51	20-S-40	
286	0500	11 SEP 74	2300	11 SEP 74	19	323.02	325.54	19-S-20	
287	0000	12 SEP 74	0900	12 SEP 74	10	323.01	325.52	18-S-18	
288	1000	12 SEP 74	1800	12 SEP 74	9	323.20	325.75	18-S-14	
289	1300	13 SEP 74	2300	13 SEP 74	11	323.01	325.52	17-S-16	
290	0000	14 SEP 74	0900	14 SEP 74	10	322.99	325.50	18-S-16	
291	1400	14 SEP 74	1900	14 SEP 74	6	323.12	325.66	17-S-17	
292	1700	19 SEP 74	2300	19 SEP 74	7	322.58	325.00	18-S-27	
293	0000	20 SEP 74	1300	20 SEP 74	14	322.73	325.18	19-S-27	
294	1400	20 SEP 74	2100	20 SEP 74	8	322.45	324.84	18-S-12	
295	0100	27 SEP 74	0600	27 SEP 74	6	323.07	325.60	35-N-19	
296	0100	28 SEP 74	1100	28 SEP 74	9	322.06	324.37	18-S-18	
297	1200	28 SEP 74	1700	28 SEP 74	11	322.80	325.27	18-S-36	
298	1800	28 SEP 74	2300	28 SEP 74	6	323.00	325.51	18-S-35	
299	0000	29 SEP 74	1100	29 SEP 74	12	322.82	325.29	18-S-29	
300	1200	29 SEP 74	1700	29 SEP 74	6	323.11	325.65	18-S-33	
301	1800	29 SEP 74	2300	29 SEP 74	6	322.90	325.39	17-S-29	
302	0000	30 SEP 74	1200	30 SEP 74	13	322.82	325.29	18-S-20	
303	1300	30 SEP 74	1800	30 SEP 74	6	322.86	325.34	17-S-14	
	0100	4 OCT 74	0600	4 OCT 74	6	324.40	327.22	18-S-10	
304	0300	9 OCT 74	1400	9 OCT 74	12	322.68	325.12	02-N-13	
305	0100	10 OCT 74	0700	10 OCT 74	7	323.06	325.58	20-S-30	
	0100	11 OCT 74	0600	11 OCT 74	6	323.82	326.51	20-S-27	
	0100	12 OCT 74	0600	12 OCT 74	6	323.78	326.46	36-N-20	
								01-N-21	

Table 11. Intervals of Steady Atmospheric CO Index at Baring Head, Const. (12)

Interval No.	Time Interval				No. of Hours	Preliminary L Index	Preliminary Adjusted Index	Airport Winds	Comments
	Hour	Starting Date	Hour	Ending Date					
306	0100	13 OCT 74	0600	13 OCT 74	6	322.99	325.50	17-S-19	
307	1300	18 OCT 74	2300	18 OCT 74	11	322.33	324.69	20-S-23	
308	2300	21 OCT 74	0600	22 OCT 74	7	323.95	326.67	18-S-20	*0000 missing - calib cycle
309	0700	22 OCT 74	1400	22 OCT 74	8	322.70	325.15	17-S-15	
310	0300	23 OCT 74	0800	23 OCT 74	6	322.84	325.32	16-S-14	
311	1000	25 OCT 74	1500	25 OCT 74	6	322.84	325.32	18-S-17	
	0700	27 OCT 74	1300	27 OCT 74	6	322.63	325.06	35-N-30	
	2200	27 OCT 74	0400	28 OCT 74	7	323.74	326.41	35-N-20	
312	1200	28 OCT 74	2100	28 OCT 74	10	323.18	325.73	17-S-18	*1200 missing - power fluctuation
313	1600	29 OCT 74	2100	29 OCT 74	6	322.60	325.02	19-S-34	
314	2200	29 OCT 74	0300	30 OCT 74	6	322.25	324.60	18-S-22	
315	1100	30 OCT 74	1700	30 OCT 74	7	323.07	325.60	19-S-35	
316	1800	30 OCT 74	2300	30 OCT 74	6	322.96	325.46	20-S-36	
317	0000	31 OCT 74	1700	31 OCT 74	18	323.14	325.68	18-S-34	
318	1800	31 OCT 74	0100	1 NOV 74	8	322.87	325.35	17-S-25	
319	0300	1 NOV 74	0900	1 NOV 74	7	322.76	325.22	18-S-13	
320	1000	1 NOV 74	1600	1 NOV 74	7	323.30	325.88	18-S-14	
321	1300	2 NOV 74	1800	2 NOV 74	6	323.22	325.78	18-S-19	
322	1900	2 NOV 74	1400	3 NOV 74	20	322.90	325.39	18-S-18	
323	1700	3 NOV 74	2300	3 NOV 74	7	322.92	325.41	18-S-15	
324	0000	4 NOV 74	0500	4 NOV 74	6	322.67	325.11	18-S-14	
325	2000	4 NOV 74	0100	5 NOV 74	6	322.76	325.22	17-S-15	
	2000	8 NOV 74	0100	9 NOV 74	6	324.04	326.78	36-N-20	
	2000	9 NOV 74	0200	10 NOV 74	7	323.80	326.49	35-N-24	
	2000	11 NOV 74	0100	12 NOV 74	6	324.41	327.23	36-N-18	
	1900	14 NOV 74	0800	15 NOV 74	14	323.52	326.14	35-N-32	
326	1700	16 NOV 74	0100	17 NOV 74	9	323.06	325.58	18-S-12	
327	0400	21 NOV 74	1000	21 NOV 74	7	322.88	325.36	17-S-16	
328	1700	21 NOV 74	2200	21 NOV 74	6	323.24	325.80	17-S-15	
329	2300	21 NOV 74	0400	22 NOV 74	6	323.00	325.51	18-S-12	
330	1900	22 NOV 74	0100	23 NOV 74	7	322.86	325.34	17-S-17	
331	1300	26 NOV 74	1900	26 NOV 74	7	323.34	325.93	20-S-21	
	2000	29 NOV 74	0300	30 NOV 74	8	325.50	328.56	03-NE-17	
	1200	5 DEC 74	2000	5 DEC 74	9	323.31	325.89	35-N-27	
	1600	6 DEC 74	2300	6 DEC 74	8	323.31	325.89	01-N-17	

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head, Con't. (13)

Interval No.	Time Interval				No. of Hours	Preliminary Index	Preliminary Adjusted Index	Airport Winds	Comments
	Starting Hour	Starting Date	Ending Hour	Ending Date					
332	1800	7 DEC 74	2300	7 DEC 74	6	323.26	325.83	35-N-24	
333	0000	8 DEC 74	0600	8 DEC 74	7	323.05	325.57	35-N-27	
334	1100	8 DEC 74	1700	8 DEC 74	7	322.78	325.24	35-N-27	
335	1300	10 DEC 74	1800	10 DEC 74	6	323.05	325.57	18-S-19	
336	1900	10 DEC 74	0000	11 DEC 74	6	322.91	325.40	17-S-11	
337	1700	14 DEC 74	2300	14 DEC 74	7	323.20	325.75	17-S-15	
338	1900	15 DEC 74	0100	16 DEC 74	7	323.04	325.56	18-S-16	
339	0200	16 DEC 74	0800	16 DEC 74	7	322.81	325.28	18-S-11	
340	2100	23 DEC 74	0800	24 DEC 74	12	322.90	325.39	17-S-13	
341	0600	1 JAN 75	1100	1 JAN 75	6	323.26	325.83	19-S-10	
342	2200	9 JAN 75	1000	10 JAN 75	12	323.18	325.73	18-S-15	
343	1900	10 JAN 75	0700	11 JAN 75	12	323.05	325.57	19-S-13	
344	2100	11 JAN 75	0400	12 JAN 75	7	323.28	325.85	20-S-10	
345	1400	17 JAN 75	2000	17 JAN 75	7	323.01	325.52	21-SW-35	
346	2200	18 JAN 75	0800	19 JAN 75	11	322.83	325.30	18-S-12	
347	1900	20 JAN 75	0700	21 JAN 75	13	322.82	325.29	18-S-20	
348	0900	27 JAN 75	1400	27 JAN 75	6	323.44	326.05	36-N-22	
349	1200	29 JAN 75	2000	29 JAN 75	9	323.19	325.74	20-S-19	
350	2100	29 JAN 75	0900	30 JAN 75	13	322.98	325.49	18-S-18	
351	2200	30 JAN 75	0400	31 JAN 75	7	322.56	324.97	18-S-15	
352	2100	31 JAN 75	0600	1 FEB 75	10	322.88	325.36	19-S-12	
353	1900	5 FEB 75	0100	6 FEB 75	7	322.53	324.94	19-S-36	
354	1800	7 FEB 75	0200	8 FEB 75	9	321.98	324.27	19-S-24	
355	0900	10 FEB 75	1700	10 FEB 75	9	322.10	324.41	02-N-23	
356	0900	11 FEB 75	1700	11 FEB 75	9	322.11	324.43	01-N-26	
357	1200	15 FEB 75	1700	15 FEB 75	6	322.49	324.89	01-N-21	
358	0000	17 FEB 75	2300	17 FEB 75	24	322.42	324.80	19-S-21	
359	0000	18 FEB 75	0600	18 FEB 75	7	322.48	324.88	18-S-15	
360	0000	21 FEB 75	0600	21 FEB 75	7	324.24	327.02	01-N-20	
361	0200	25 FEB 75	0800	25 FEB 75	7	322.42	324.80	19-S-28	
362	0900	25 FEB 75	1400	25 FEB 75	6	322.61	325.04	18-S-28	
363	1500	25 FEB 75	2300	25 FEB 75	9	322.49	324.89	18-S-28	
364	0000	26 FEB 75	0500	26 FEB 75	6	322.57	324.99	19-S-24	
365	1200	26 FEB 75	1700	26 FEB 75	6	322.82	325.29	18-S-15	
366	1900	26 FEB 75	0300	27 FEB 75	9	323.24	325.80	17-S-13	

*0000 missing - calib cycle
 *0000 missing - calib cycle
 *0000 missing - calib cycle

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head, Cont. (14)

Interval No.	Time Interval				No. of Hours	Preliminary L Index	Preliminary Adjusted Index	Airport Winds	Comments
	Starting Date	Ending Date	Hour	Date					
359	0400 27 FEB 75	1200 27 FEB 75			9	322.86	325.34	21-SW-11	
360	1200 28 FEB 75	0000 1 MAR 75			13	322.53	324.94	19-S-S-30	
361	1400 1 MAR 75	2200 1 MAR 75			9	322.72	325.17	17-S-20	
362	0500 6 MAR 75	2300 6 MAR 75			19	322.54	324.95	17-S-20	
363	1200 9 MAR 75	2100 9 MAR 75			10	322.72	325.17	18-S-16	
364	1200 11 MAR 75	2000 11 MAR 75			9	322.36	324.73	17-S-14	
365	0100 12 MAR 75	1300 12 MAR 75			13	322.45	324.84	16-S-15	
	1900 20 MAR 75	0700 21 MAR 75			13	323.80	326.49	02-N-21	
	0100 26 MAR 75	0600 26 MAR 75			6	323.70	326.36	36-N-19	
	0100 29 MAR 75	0700 29 MAR 75			7	323.13	325.67	36-N-27	
	1900 29 MAR 75	0000 30 MAR 75			6	323.26	325.83	01-N-21	
	0100 30 MAR 75	0700 30 MAR 75			7	323.05	325.57	36-N-23	
	1900 2 APR 75	0700 3 APR 75			13	323.25	325.82	35-N-22	
	0800 3 APR 75	1300 3 APR 75			6	322.41	324.79	35-N-21	
366	1700 4 APR 75	2200 4 APR 75			6	322.86	325.34	17-S-16	
	1900 6 APR 75	0700 7 APR 75			13	323.08	325.61	36-N-30	
367	1600 14 APR 75	2300 14 APR 75			8	322.54	324.95	18-S-28	
368	2100 25 APR 75	0300 26 APR 75			7	323.00	325.51	19-S-33	
369	0700 26 APR 75	1200 26 APR 75			6	323.37	325.96	20-S-38	
370	1200 30 APR 75	2000 30 APR 75			9	322.62	325.05	16-S-15	
371	2100 30 APR 75	0300 1 MAY 75			7	322.82	325.29	16-S-08	
372	0300 7 MAY 75	0800 7 MAY 75			6	322.84	325.32	18-S-26	
373	1500 7 MAY 75	2100 7 MAY 75			7	322.96	325.46	18-S-19	
374	0800 26 MAY 75	1300 26 MAY 75			6	322.81	325.28	19-S-07	
375	0400 27 MAY 75	1200 27 MAY 75			9	322.82	325.29	17-S-25	
376	1300 27 MAY 75	1800 27 MAY 75			6	322.70	325.15	16-S-17	
377	2300 28 MAY 75	0900 29 MAY 75			11	322.92	325.41	18-S-20	
378	1300 29 MAY 75	1900 29 MAY 75			7	323.34	325.93	18-S-19	
379	1300 31 MAY 75	2300 31 MAY 75			11	322.88	325.36	17-S-18	
380	0000 1 JUN 75	1500 1 JUN 75			16	322.99	325.50	17-S-20	
381	1600 1 JUN 75	2200 1 JUN 75			7	322.89	325.38	18-S-15	
382	2100 7 JUN 75	0300 8 JUN 75			7	323.13	325.67	19-S-30	
383	0400 8 JUN 75	1400 8 JUN 75			11	323.26	325.83	19-S-28	

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head, Con't. (15)

Interval No.	Time Interval			No. of Hours	Preliminary L Index	Preliminary Adjusted Index	Airport Winds	Comments
	Starting Hour	Starting Date	Ending Date					
384	1600	10 JUN 75	2300	8	322.97	325.47	18-S-28	
385	0000	11 JUN 75	1700	18	323.04	325.56	19-S-20	
386	0800	14 JUN 75	1500	8	323.74	326.41	19-S-26	
387	0100	15 JUN 75	2300	23	323.40	326.00	20-S-40	
388	0000	16 JUN 75	0500	6	323.50	326.12	21-SW-51	
	0100	21 JUN 75	1000	10	323.90	326.61	35-N-20	
389	1200	21 JUN 75	1800	7	323.16	325.71	19-S-22	
	0200	22 JUN 75	0800	7	323.43	326.04	01-N-05	
390	1300	22 JUN 75	2000	8	323.17	325.72	19-S-35	
391	2100	22 JUN 75	1700	21	323.01	325.52	18-S-25	
392	2200	24 JUN 75	0300	6	323.33	325.91	17-S-26	
393	0500	25 JUN 75	1200	8	323.55	326.18	18-S-28	
394	1300	25 JUN 75	1800	6	323.38	325.97	19-S-23	
395	1700	26 JUN 75	2300	7	323.00	325.51	19-S-23	
396	0000	27 JUN 75	1300	14	322.88	325.36	17-S-20	
397	1400	27 JUN 75	1900	6	322.78	325.24	16-S-10	
398	1300	28 JUN 75	2000	8	322.97	325.47	18-S-08	
399	0900	29 JUN 75	1700	9	323.54	326.17	19-S-09	
400	1700	1 JUL 75	2300	7	323.70	326.36	36-N-22	
401	1800	2 JUL 75	0100	8	323.42	326.02	19-S-22	
402	2100	3 JUL 75	0900	13	323.27	325.84	21-SW-35	
403	1000	4 JUL 75	1500	6	323.16	325.71	20-SW-36	
404	1600	4 JUL 75	2100	6	322.88	325.36	21-SW-3	
405	2200	4 JUL 75	1400	17	323.18	325.73	20-SW-30	
406	0700	6 JUL 75	1500	9	323.22	325.78	20-S-30	
	1600	7 JUL 75	0300	12	323.09	325.62	19-S-25	
	1500	14 JUL 75	2000	6	324.46	327.29	36-N-40	
	0100	15 JUL 75	0700	7	323.87	326.57	35-N-28	
	1200	15 JUL 75	1700	6	323.09	325.62	34-N-26	
	1900	15 JUL 75	0800	14	323.68	326.34	36-N-18	
	1000	16 JUL 75	1500	6	323.00	325.51	36-N-25	
	1700	16 JUL 75	2200	6	323.80	326.49	35-N-19	
	2300	16 JUL 75	0400	6	323.65	326.30	36-N-16	
	0500	17 JUL 75	1200	7	323.80	326.49	04-NE-15	*0900 missing - power failure
407	1700	17 JUL 75	2300	7	323.44	326.05	21-SW-33	
408	0000	18 JUL 75	0800	9	323.36	325.95	20-SW-28	

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head, Cont'd. (16)

Interval No.	Time Interval			No. of Hours	Preliminary L Index	Preliminary Adjusted Index	Airport Winds	Comments
	Starting Hour	Starting Date	Ending Date					
409	0900	18 JUL 75	1500 18 JUL 75	7	323.65	326.30	21-SW-20	
410	1600	18 JUL 75	2100 18 JUL 75	6	323.20	325.75	19-S-16	
411	1200	21 JUL 75	2300 21 JUL 75	12	323.11	325.65	20-S-35	
412	0000	22 JUL 75	0900 22 JUL 75	10	323.31	325.89	20-S-32	
413	1000	22 JUL 75	1500 22 JUL 75	6	323.14	325.68	20-SW-30	
414	1600	22 JUL 75	2100 22 JUL 75	6	322.82	325.29	21-SW-37	
415	2200	22 JUL 75	0800 23 JUL 75	11	323.08	325.61	20-S-36	
416	0900	23 JUL 75	1400 23 JUL 75	6	323.27	325.84	20-SW-34	
417	1500	23 JUL 75	2300 23 JUL 75	9	322.97	325.47	20-S-38	
418	0000	24 JUL 75	0800 24 JUL 75	9	323.13	325.67	21-SW-16	
	1800	29 JUL 75	0100 30 JUL 75	8	323.67	326.33	35-N-38	
419	0800	30 JUL 75	1900 30 JUL 75	12	323.77	326.45	19-S-30	
	1700	31 JUL 75	0300 1 AUG 75	11	323.79	326.47	36-N-33	
	0700	1 AUG 75	1300 1 AUG 75	7	323.64	326.29	35-N-50	
	1400	1 AUG 75	1900 1 AUG 75	6	323.59	326.23	35-N-36	
	2200	1 AUG 75	1100 2 AUG 75	14	323.76	326.44	29-NW-17	
420	2200	2 AUG 75	0400 3 AUG 75	7	323.12	325.66	18-S-23	
421	0600	3 AUG 75	1100 3 AUG 75	6	323.52	326.14	17-S-14	
422	1600	7 AUG 75	2300 7 AUG 75	8	323.71	326.38	18-S-13	
423	0000	8 AUG 75	0500 8 AUG 75	6	323.72	326.39	18-S-18	
424	1600	8 AUG 75	2200 8 AUG 75	7	323.62	326.27	20-S-30	
425	1400	20 AUG 75	2100 20 AUG 75	8	323.65	326.32	17-S-20	
	0100	21 AUG 75	0700 21 AUG 75	7	324.30	327.10	21-SW-34	
	0800	21 AUG 75	1300 21 AUG 75	6	324.34	327.14	21-SW-36	
426	2000	21 AUG 75	0100 22 AUG 75	6	324.17	326.94	19-S-36	
427	0200	22 AUG 75	1300 22 AUG 75	12	324.32	327.12	19-S-28	
428	1500	22 AUG 75	2000 22 AUG 75	6	323.60	326.24	18-S-23	
429	2100	22 AUG 75	0200 23 AUG 75	6	323.99	326.72	18-S-20	
430	0400	23 AUG 75	1500 23 AUG 75	12	324.55	327.40	18-S-15	
	2000	24 AUG 75	0200 25 AUG 75	7	325.23	328.23	01-N-15	
	0000	30 AUG 75	0900 30 AUG 75	10	324.47	327.30	35-N-30	
431	0400	4 SEP 75	0100 5 SEP 75	22	323.98	326.71	18-S-20	
432	0300	5 SEP 75	2000 5 SEP 75	18	324.10	326.85	18-S-15	
433	2100	5 SEP 75	0900 6 SEP 75	13	324.37	327.18	18-S-15	
	0100	10 SEP 75	0700 10 SEP 75	7	325.97	329.13	02-N-15	

Table 11. Intervals of Steady Atmospheric CO₂ Index at Baring Head, Con't. (17)

Interval No.	Time Interval			No. of Hours	Preliminary L Index	Preliminary Adjusted Index	Airport Winds	Comments
	Starting Date	Ending Date	Hour					
434	12 SEP 75	12 SEP 75	0700	7	323.83	326.52	18-S-25	
435	12 SEP 75	12 SEP 75	1300	6	324.21	326.99	18-S-15	*
	19 SEP 75	20 SEP 75	0900	11	324.83	327.74	0-N-30	*
439	9 OCT 75	9 OCT 75	0900	6	324.64	327.51	N	*
440	9 OCT 75	10 OCT 75	2000	28	324.57	327.42	S	*
441	10 OCT 75	11 OCT 75	0600	7	324.58	327.44	S	*
442	19 OCT 75	19 OCT 75	1100	8	324.17	326.94	S	*
443	19 OCT 75	20 OCT 75	0900	12	323.90	326.61	S	*
444	27 OCT 75	27 OCT 75	2100	12	323.36	325.95	S	*
	27 OCT 75	29 OCT 75	0200	27	323.54	326.17	S	*
	31 OCT 75	31 OCT 75	0800	8	324.10	326.85	N	
445	1 NOV 75	2 NOV 75	0500	11	324.00	326.73	36-N-30	*
446	2 NOV 75	3 NOV 75	1200	14	323.47	326.08	18-S-15	*
447	3 NOV 75	3 NOV 75	1900	7	323.29	325.86	17-SW-20	*
448	4 NOV 75	5 NOV 75	1900	27	323.56	326.19	18-S-25	*
449	6 NOV 75	9 NOV 75	0300	11	323.73	326.40	18-S-20	*
	14 NOV 75	14 NOV 75	0900	7	323.66	326.32	18-S-30	
	14 NOV 75	16 NOV 75	1600	7	324.06	326.80	18-S-25	
451	17 NOV 75	17 NOV 75	2100	11	323.57	326.21	18-S-20	
452	19 NOV 75	20 NOV 75	0500	8	323.42	326.02	19-S-20	*
453	20 NOV 75	20 NOV 75	1500	7	323.91	326.62	18-S-10	
454	21 NOV 75	1600	21 NOV 75	6	323.53	326.16	19-SW-35	
455	21 NOV 75	2300	21 NOV 75	7	323.38	325.97	19-SW-35	
456	22 NOV 75	22 NOV 75	2200	8	323.96	326.68	16-SE-05	
457	14 DEC 75	14 DEC 75	0600	6	323.88	326.58	17-S-15	
458	14 DEC 75	14 DEC 75	1400	6	324.03	326.77	17-S-20	
459	14 DEC 75	15 DEC 75	0700	13	322.87	325.35	17-S-15	*
	23 DEC 75	24 DEC 75	0500	7	323.80	326.49	36-N-20	*
	25 DEC 75	25 DEC 75	0900	6	323.77	326.45	31-NW-20	
460	25 DEC 75	26 DEC 75	0100	9	323.01	325.52	36-N-05	*
461	26 DEC 75	27 DEC 75	0100	11	322.87	325.35	18-S-25	*
462	29 DEC 75	30 DEC 75	1100	27	322.93	325.43	18-S-20	*
463	30 DEC 75	30 DEC 75	2000	9	323.07	325.60	18-S-15	
	31 DEC 75	31 DEC 75	2300	23	322.81	325.28	18-S-25	

Table 12. Reference Gas Information and Average Scale Differences for Steady Intervals at Baring Head

Interval No.	Time Interval		Preliminary Index		Computed Scale Difference	Final Index			
	Starting Date	Ending Date	(HS-I) or (HS-WG)	WG		I	HS	WG	
1	1900	20 DEC 72	0100	21 DEC 72	9.97	324.56	314.15	334.58	324.57
2	1100	21 DEC 72	1800	21 DEC 72	9.97	324.56	314.15	334.58	324.57
3	1900	21 DEC 72	0400	22 DEC 72	9.97	324.56	314.15	334.58	324.57
4	1200	27 DEC 72	1800	27 DEC 72	9.97	324.56	314.15	334.58	324.57
5	0800	6 JAN 73	1800	6 JAN 73	9.21	325.32	314.15	334.58	325.37
6	1100	9 JAN 73	1600	9 JAN 73	9.21	325.32	314.15	334.58	325.37
7	1700	12 JAN 73	0200	13 JAN 73	9.21	325.32	314.15	334.58	325.37
8	1000	13 JAN 73	1600	13 JAN 73	9.21	325.32	314.15	334.58	325.37
9	2000	16 JAN 73	0800	17 JAN 73	9.21	325.32	314.15	334.58	325.37
10	0900	17 JAN 73	1500	17 JAN 73	9.21	325.32	314.15	334.58	325.37
11	2200	5 FEB 73	0400	6 FEB 73	9.21	325.32	314.15	334.58	325.37
12	0300	8 FEB 73	1900	8 FEB 73	9.21	325.32	314.15	334.58	325.37
13	0200	11 FEB 73	1000	11 FEB 73	8.70	325.83	314.15	334.58	325.85
14	1300	12 FEB 73	1900	12 FEB 73	8.70	325.83	314.15	334.58	325.85
15	2000	12 FEB 73	0200	13 FEB 73	8.70	325.83	314.15	334.58	325.85
16	0300	13 FEB 73	1400	13 FEB 73	8.70	325.83	314.15	334.58	325.85
17	1500	13 FEB 73	2100	13 FEB 73	8.70	325.83	314.15	334.58	325.85
18	1200	14 FEB 73	1900	14 FEB 73	8.70	325.83	314.15	334.58	325.85
19	0600	17 FEB 73	2300	17 FEB 73	8.70	325.83	314.15	334.58	325.85
20	0200	18 FEB 73	1500	18 FEB 73	8.70	325.83	314.15	334.58	325.85
21	1800	21 FEB 73	0100	22 FEB 73	8.70	325.83	314.15	334.58	325.85
22	1000	22 FEB 73	2300	22 FEB 73	8.70	325.83	314.15	334.58	325.85
23	0000	23 FEB 73	1800	23 FEB 73	8.70	325.83	314.15	334.58	325.85
24	1900	6 MAR 73	0500	7 MAR 73	8.70	325.83	314.15	334.58	325.85
25	1800	9 MAR 73	2300	9 MAR 73	8.70	325.83	314.15	334.58	325.85
26	0000	10 MAR 73	1500	10 MAR 73	8.70	325.83	314.15	334.58	325.85
27	0400	12 MAR 73	1900	12 MAR 73	8.70	325.83	314.15	334.58	325.85
28	2300	12 MAR 73	0700	13 MAR 73	8.70	325.83	314.15	334.58	325.85
29	1100	17 MAR 73	1600	17 MAR 73	8.70	325.83	314.15	334.58	325.85
30	0100	21 MAR 73	1300	21 MAR 73	8.70	325.83	314.15	334.58	325.85
31	1200	24 MAR 73	0100	25 MAR 73	11.43	323.10	314.15	334.58	323.16
32	1800	25 MAR 73	2300	25 MAR 73	11.43	323.10	314.15	334.58	323.16
33	0000	26 MAR 73	2300	26 MAR 73	11.43	323.10	314.15	334.58	323.16

Table 12. Reference Gas Information and Average Scale Differences for Steady Intervals at Baring Head, Con't. (2)

Interval No.	Time Interval			Preliminary Index			Final Index			
	Hour	Starting Date	Ending Date	(HS-I) or (HS-WG)	WG	Computed Scale Difference	I	HS	WG	
34	0000	27 MAR 73	0700	27 MAR 73	11.43	323.10	-0.86	314.15	334.58	323.16
35	0800	27 MAR 73	1700	27 MAR 73	11.43	323.10	-0.97	314.15	334.58	323.16
36	1700	30 MAR 73	2200	30 MAR 73	11.43	323.10	-0.79	314.15	334.58	323.16
37	1300	1 APR 73	0000	2 APR 73	11.43	323.10	-0.69	314.15	334.58	323.16
38	0100	2 APR 73	1200	2 APR 73	11.43	323.10	-0.80	314.15	334.58	323.16
39	1500	2 APR 73	2300	2 APR 73	11.43	323.10	-0.84	314.15	334.58	323.16
40	0000	3 APR 73	1600	3 APR 73	11.43	323.10	-0.90	314.15	334.58	323.16
41	1700	3 APR 73	2300	3 APR 73	11.43	323.10	-0.85	314.15	334.58	323.16
42	0000	4 APR 73	2300	4 APR 73	11.43	323.10	-0.85	314.15	334.58	323.16
43	0000	5 APR 73	0300	6 APR 73	11.43	323.10	-0.85	314.15	334.58	323.16
44	0800	6 APR 73	1700	6 APR 73	11.43	323.10	-0.93	314.15	334.58	323.16
45	1000	9 APR 73	1600	9 APR 73	11.43	323.10	-0.93	314.15	334.58	323.16
46	0900	11 APR 73	1500	11 APR 73	11.43	323.10	-0.97	314.15	334.58	323.16
47	1700	13 APR 73	2300	13 APR 73	11.43	323.10	-0.66	314.15	334.58	323.16
48	0000	14 APR 73	1600	14 APR 73	11.43	323.10	-0.71	314.15	334.58	323.16
49	0400	17 APR 73	1800	17 APR 73	11.43	323.10	-0.73	314.15	334.58	323.16
50	1100	24 APR 73	1700	24 APR 73	11.43	323.10	-0.59	314.15	334.58	323.16
51	1100	30 APR 73	1600	30 APR 73	16.13	318.40	1.03	314.15	334.58	318.50
52	1500	13 MAY 73	2300	13 MAY 73	16.13	318.40	1.18	314.15	334.58	318.50
53	0000	14 MAY 73	0800	14 MAY 73	16.13	318.40	1.21	314.15	334.58	318.50
54	1500	14 MAY 73	2300	14 MAY 73	16.13	318.40	1.26	314.15	334.58	318.50
55	0000	15 MAY 73	0800	15 MAY 73	16.13	318.40	1.26	314.15	334.58	318.50
56	2000	20 MAY 73	0300	21 MAY 73	16.13	318.40	1.44	314.15	334.58	318.50
57	1700	25 MAY 73	0200	26 MAY 73	16.13	318.40	1.42	314.15	334.58	318.50
58	1600	13 JUN 73	2100	13 JUN 73	16.62	317.91	1.57	314.15	334.58	317.88
59	0000	14 JUN 73	2200	14 JUN 73	16.62	317.91	1.57	314.15	334.58	317.88
60	2300	14 JUN 73	1300	15 JUN 73	16.62	317.91	1.49	314.15	334.58	317.88
61	1700	15 JUN 73	2300	15 JUN 73	16.62	317.91	1.51	314.15	334.58	317.88
62	1300	16 JUN 73	2000	16 JUN 73	16.62	317.91	1.53	314.15	334.58	317.88
63	2300	16 JUN 73	0600	17 JUN 73	16.62	317.91	1.63	314.15	334.58	317.88
64	1400	17 JUN 73	2300	17 JUN 73	16.62	317.91	1.52	314.15	334.58	317.88
65	0000	18 JUN 73	1300	18 JUN 73	16.62	317.91	1.56	314.15	334.58	317.88
66	1600	19 JUN 73	2100	19 JUN 73	16.62	317.91	2.04	314.15	334.58	317.88
67	2100	27 JUN 73	0600	28 JUN 73	16.62	317.91	1.64	314.15	334.58	317.88

Table 12. Reference Gas Information and Average Scale Differences for Steady Intervals at Baring Head, Cont. (3)

Interval No.	Time Interval			Preliminary Index			Computed Scale Difference			Final Index		
	Hour	Starting Date	Ending Date	(HS-I) or (HS-WG)	WG		(HS-I) or (HS-WG)	WG		I	HS	WG
68	0300	29 JUN 73	0900	14.00	317.91		14.00	317.91	1.77	314.15	331.94	317.88
69	1500	30 JUN 73	2300	14.00	317.91		14.00	317.91	1.77	314.15	331.94	317.88
70	0100	1 JUL 73	2000	14.00	317.91		14.00	317.91	1.66	314.15	331.94	317.88
71	2100	1 JUL 73	0600	14.00	317.91		14.00	317.91	1.75	314.15	331.94	317.88
72	1700	6 JUL 73	2200	14.00	317.91		14.00	317.91	1.92	314.15	331.94	317.88
73	0100	7 JUL 73	1700	14.00	317.91		14.00	317.91	1.71	314.15	331.94	317.88
74	0800	10 JUL 73	2300	14.00	317.91		14.00	317.91	1.81	314.15	331.94	317.88
75	0000	11 JUL 73	2300	14.00	317.91		14.00	317.91	1.78	314.15	331.94	317.88
76	0000	12 JUL 73	0600	14.00	317.91		14.00	317.91	2.01	314.15	331.94	317.88
77	1600	12 JUL 73	2300	14.00	317.91		14.00	317.91	1.76	314.15	331.94	317.88
78	1600	13 JUL 73	2300	13.62	318.29		13.62	318.29	1.47	314.15	331.94	318.37
79	0000	14 JUL 73	0400	13.62	318.29		13.62	318.29	1.46	314.15	331.94	318.37
80	0500	15 JUL 73	1600	13.62	318.29		13.62	318.29	1.53	314.15	331.94	318.37
81	1900	24 JUL 73	0100	13.62	318.29		13.62	318.29	2.07	314.15	331.94	318.37
82	1800	25 JUL 73	0400	13.62	318.29		13.62	318.29	1.85	314.15	331.94	318.37
83	0600	26 JUL 73	1100	13.62	318.29		13.62	318.29	1.82	314.15	331.94	318.37
84	1200	26 JUL 73	2300	13.62	318.29		13.62	318.29	1.71	314.15	331.94	318.37
85	0000	27 JUL 73	2300	13.62	318.29		13.62	318.29	1.76	314.15	331.94	318.37
86	0000	28 JUL 73	0700	13.62	318.29		13.62	318.29	1.76	314.15	331.94	318.37
87	1500	28 JUL 73	2300	13.62	318.29		13.62	318.29	1.81	314.15	331.94	318.37
88	0000	29 JUL 73	1600	13.62	318.29		13.62	318.29	1.93	314.15	331.94	318.37
89	1700	29 JUL 73	0000	13.62	318.29		13.62	318.29	1.80	314.15	331.94	318.37
90	0100	30 JUL 73	0700	13.62	318.29		13.62	318.29	1.93	314.15	331.94	318.37
91	0800	30 JUL 73	2300	13.62	318.29		13.62	318.29	1.83	314.15	331.94	318.37
92	0000	31 JUL 73	0300	13.62	318.29		13.62	318.29	1.81	314.15	331.94	318.37
93	2000	3 AUG 73	0100	13.62	318.29		13.62	318.29	1.94	314.15	331.94	318.37
94	0200	4 AUG 73	1400	13.62	318.29		13.62	318.29	2.05	314.15	331.94	318.37
95	0300	6 AUG 73	1100	13.62	318.29		13.62	318.29	1.93	314.15	331.94	318.37
96	1200	6 AUG 73	2100	13.62	318.29		13.62	318.29	1.83	314.15	331.94	318.37
97	2200	6 AUG 73	1000	13.62	318.29		13.62	318.29	1.98	314.15	331.94	318.37
98	1200	7 AUG 73	0000	13.62	318.29		13.62	318.29	1.57	314.15	331.94	318.37
99	0500	8 AUG 73	1100	13.62	318.29		13.62	318.29	1.72	314.15	331.94	318.37
100	1500	8 AUG 73	0400	13.62	318.29		13.62	318.29	1.55	314.15	331.94	318.37
101	0400	16 AUG 73	1000	13.62	318.29		13.62	318.29	1.83	314.15	331.94	318.37
102	2100	16 AUG 73	1100	14.28	317.63		14.28	317.63	2.10	314.15	331.94	317.91

Table 12. Reference Gas Information and Average Scale Differences for Steady Intervals at Baring Head, Cont. (4)

Interval No.	Time Interval		Preliminary Index		Computed Scale Difference		Final Index			
	Hour	Starting Date	Hour	Ending Date	(HS-I) or (HS-WG)	WG	I	HS		
103	1200	17 AUG 73	1900	17 AUG 73	14.28	317.63	2.09	314.15	331.94	317.91
104	2000	17 AUG 73	2300	18 AUG 73	14.28	317.63	2.12	314.15	331.94	317.91
105	0000	19 AUG 73	1700	19 AUG 73	14.28	317.63	2.03	314.15	331.94	317.91
106	0700	21 AUG 73	1400	21 AUG 73	14.28	317.63	2.38	314.15	331.94	317.91
107	1700	21 AUG 73	2200	21 AUG 73	14.28	317.63	2.12	314.15	331.94	317.91
108	2300	21 AUG 73	2300	22 AUG 73	14.28	317.63	2.18	314.15	331.94	317.91
109	0000	23 AUG 73	1100	23 AUG 73	14.28	317.63	2.17	314.15	331.94	317.91
110	1400	23 AUG 73	0000	24 AUG 73	14.28	317.63	2.01	314.15	331.94	317.91
111	1700	2 SEP 73	2300	2 SEP 73	14.28	317.63	2.08	314.15	331.94	317.91
112	1900	7 SEP 73	0500	8 SEP 73	14.28	317.63	2.11	314.15	331.94	317.91
113	0600	8 SEP 73	1200	8 SEP 73	14.28	317.63	2.30	314.15	331.94	317.91
114	1600	8 SEP 73	0000	9 SEP 73	14.28	317.63	2.04	314.15	331.94	317.91
115	1200	9 SEP 73	2100	9 SEP 73	14.28	317.63	2.05	314.15	331.94	317.91
116	0000	16 SEP 73	1000	16 SEP 73	14.28	317.63	2.13	314.15	331.94	317.91
117	1100	16 SEP 73	1700	16 SEP 73	14.28	317.63	2.04	314.15	331.94	317.91
118	1700	1 OCT 73	0000	2 OCT 73	13.64	318.27	1.96	314.15	331.94	318.25
119	1600	3 OCT 73	0000	4 OCT 73	13.64	318.27	1.96	314.15	331.94	318.25
120	0400	4 OCT 73	1300	4 OCT 73	13.64	318.27	2.38	314.15	331.94	318.25
121	1400	4 OCT 73	2000	4 OCT 73	13.64	318.27	2.21	314.15	331.94	318.25
122	0500	17 OCT 73	1200	17 OCT 73	13.64	318.27	2.13	314.15	331.94	318.25
123	1300	17 OCT 73	1900	17 OCT 73	13.64	318.27	2.03	314.15	331.94	318.25
124	2000	23 OCT 73	0300	24 OCT 73	13.64	318.27	1.98	314.15	331.94	318.25
125	0700	24 OCT 73	1800	24 OCT 73	13.64	318.27	1.95	314.15	331.94	318.25
126	1900	24 OCT 73	0100	25 OCT 73	13.64	318.27	2.01	314.15	331.94	318.25
127	1100	25 OCT 73	1700	25 OCT 73	13.64	318.27	1.80	314.15	331.94	318.25
128	1000	27 OCT 73	1900	27 OCT 73	13.64	318.27	1.77	314.15	331.94	318.25
129	1800	9 NOV 73	0200	10 NOV 73	13.67	318.24	2.02	314.15	331.94	318.17
130	0600	10 NOV 73	1800	10 NOV 73	13.67	318.24	2.01	314.15	331.94	318.17
131	1200	14 NOV 73	2300	14 NOV 73	13.67	318.24	1.84	314.15	331.94	318.17
132	0000	15 NOV 73	1100	15 NOV 73	13.67	318.24	1.94	314.15	331.94	318.17
133	2300	15 NOV 73	0500	16 NOV 73	13.67	318.24	2.28	314.15	331.94	318.17
134	0600	19 NOV 73	1300	19 NOV 73	13.67	318.24	2.04	314.15	331.94	318.17
135	0500	28 NOV 73	1400	28 NOV 73	13.67	318.24	1.85	314.15	331.94	318.17
136	1800	28 NOV 73	0100	29 NOV 73	13.67	318.24	2.00	314.15	331.94	318.17

Table 12. Reference Gas Information and Average Scale Differences for Steady Intervals at Baring Head, Con't. (5)

Interval No.	Time Interval			Preliminary Index			Computed Scale Difference	Final Index		
	Hour	Starting Date	Ending Date	(HS-I) or (HS-WG)	WG			I	HS	WG
137	0700	29 NOV 73	1200	13.67	318.24		1.47	314.15	331.94	318.17
138	1400	29 NOV 73	2000	13.67	318.24		1.73	314.15	331.94	318.17
139	1500	2 DEC 73	2000	13.67	318.24		2.08	314.15	331.94	318.17
140	1200	6 DEC 73	1700	13.67	318.24		1.77	314.15	331.94	318.17
141	0700	9 DEC 73	1200	13.67	318.24		1.76	314.15	331.94	318.17
142	1300	9 DEC 73	1800	13.67	318.24		1.85	314.15	331.94	318.17
143	0900	11 DEC 73	2100	13.67	318.24		1.76	314.15	331.94	318.17
144	2200	11 DEC 73	0300	13.67	318.24		1.93	314.15	331.94	318.17
145	1200	12 DEC 73	1800	13.67	318.24		1.80	314.15	331.94	318.17
146	1300	18 DEC 73	0000	13.67	318.24		1.87	314.15	331.94	318.17
147	0400	19 DEC 73	2300	13.67	318.24		1.82	314.15	331.94	318.17
148	0000	20 DEC 73	0900	13.67	318.24		1.82	314.15	331.94	318.17
149	1500	20 DEC 73	2300	13.74	318.17		1.81	314.15	331.94	318.08
150	0000	21 DEC 73	2000	13.74	318.17		1.83	314.15	331.94	318.08
152	1600	3 JAN 74	2100	13.74	318.17		1.73	314.15	331.94	318.08
153	0700	4 JAN 74	1300	13.74	318.17		1.48	314.15	331.94	318.08
154	0100	9 JAN 74	0600	13.74	318.17		1.53	314.15	331.94	318.08
155	0900	9 JAN 74	1400	13.74	318.17		1.89	314.15	331.94	318.08
156	1500	9 JAN 74	2300	13.74	318.17		1.68	314.15	331.94	318.08
157	0100	10 JAN 74	2000	13.74	318.17		1.69	314.15	331.94	318.08
158	1100	12 JAN 74	2300	13.74	318.17		1.75	314.15	331.94	318.08
159	0100	13 JAN 74	0700	13.74	318.17		1.72	314.15	331.94	318.08
160	1100	13 JAN 74	1900	13.74	318.17		1.83	314.15	331.94	318.08
161	2300	16 JAN 74	0500	13.74	318.17		1.62	314.15	331.94	318.08
162	0600	17 JAN 74	1700	13.74	318.17		1.72	314.15	331.94	318.08
163	1700	19 JAN 74	2300	13.74	318.17		1.64	314.15	331.94	318.08
164	0100	20 JAN 74	0600	13.74	318.17		1.84	314.15	331.94	318.08
165	1600	23 JAN 74	2200	15.44	316.47		2.30	314.15	331.94	316.40
166	0400	24 JAN 74	0900	15.44	316.47		2.49	314.15	331.94	316.40
167	1000	24 JAN 74	2300	15.44	316.47		2.35	314.15	331.94	316.40
168	0000	25 JAN 74	1400	15.44	316.47		2.39	314.15	331.94	316.40
169	1500	25 JAN 74	2000	15.44	316.47		2.39	314.15	331.94	316.40
170	1500	27 JAN 74	2000	15.44	316.47		2.47	314.15	331.94	316.40
171	1200	29 JAN 74	1900	15.44	316.47		2.37	314.15	331.94	316.40
172	0700	31 JAN 74	1400	15.44	316.47		2.40	314.15	331.94	316.40

Table 12. Reference Gas Information and Average Scale Differences for Steady Intervals at Baring Head, Con't. (6)

Interval No.	Time Interval				Preliminary Index			Computed Scale Difference			Final Index		
	Starting Hour	Starting Date	Ending Hour	Ending Date	(HS-I) or (HS-WG)	WG		Difference	I	HS	WG		
173	1700	5 FEB 74	2200	5 FEB 74	15.44	316.47		2.83	314.15	331.94	316.40		
174	1300	10 FEB 74	1900	10 FEB 74	15.44	316.47		2.26	314.15	331.94	316.40		
175	0100	11 FEB 74	0800	11 FEB 74	15.44	316.47		2.14	314.15	331.94	316.40		
176	1200	11 FEB 74	1900	11 FEB 74	15.44	316.47		1.98	314.15	331.94	316.40		
177	2000	15 FEB 74	0500	16 FEB 74	15.44	316.47		1.81	314.15	331.94	316.40		
178	0700	16 FEB 74	0400	17 FEB 74	15.44	316.47		1.88	314.15	331.94	316.40		
179	0600	17 FEB 74	2300	17 FEB 74	15.44	316.47		1.86	314.15	331.94	316.40		
180	0100	18 FEB 74	1100	18 FEB 74	15.44	316.47		1.85	314.15	331.94	316.40		
181	0200	21 FEB 74	1100	21 FEB 74	14.27	316.47		1.87	314.15	330.75	316.40		
182	1200	21 FEB 74	2200	21 FEB 74	14.27	316.47		1.81	314.15	330.75	316.40		
183	0400	24 FEB 74	0900	24 FEB 74	14.27	316.47		2.26	314.15	330.75	316.40		
184	1200	25 FEB 74	1700	25 FEB 74	14.27	316.47		1.91	314.15	330.75	316.40		
185	1800	26 FEB 74	0100	27 FEB 74	14.27	316.47		1.72	314.15	330.75	316.40		
186	0100	1 MAR 74	0700	1 MAR 74	14.27	316.47		1.80	314.15	330.75	316.40		
187	1400	1 MAR 74	1900	1 MAR 74	14.27	316.47		1.61	314.15	330.75	316.40		
188	2000	1 MAR 74	0200	2 MAR 74	14.27	316.47		1.58	314.15	330.75	316.40		
189	0900	3 MAR 74	1400	3 MAR 74	14.27	316.47		1.46	314.15	330.75	316.40		
190	1600	3 MAR 74	2200	3 MAR 74	14.27	316.47		1.49	314.15	330.75	316.40		
191	0900	7 MAR 74	1400	7 MAR 74	14.27	316.47		1.36	314.15	330.75	316.40		
192	2100	15 MAR 74	0800	16 MAR 74	9.80	320.94		0.77	314.15	330.75	320.87		
193	0900	16 MAR 74	2300	16 MAR 74	9.80	320.94		0.67	314.15	330.75	320.87		
194	0100	17 MAR 74	1100	17 MAR 74	9.80	320.94		0.64	314.15	330.75	320.87		
195	1300	17 MAR 74	2300	17 MAR 74	9.80	320.94		0.65	314.15	330.75	320.87		
196	0100	18 MAR 74	0900	18 MAR 74	9.80	320.94		0.63	314.15	330.75	320.87		
197	1200	21 MAR 74	1900	21 MAR 74	9.80	320.94		0.65	314.15	330.75	320.87		
198	1200	22 MAR 74	2100	22 MAR 74	9.80	320.94		0.44	314.15	330.75	320.87		
199	1200	23 MAR 74	1900	23 MAR 74	9.80	320.94		0.49	314.15	330.75	320.87		
200	1200	24 MAR 74	1800	24 MAR 74	9.80	320.94		0.26	314.15	330.75	320.87		
201	1500	26 MAR 74	2200	26 MAR 74	16.55	320.94		0.47	314.15	330.75	320.87		
202	0000	27 MAR 74	1200	27 MAR 74	16.55	320.94		0.43	314.15	330.75	320.87		
203	1000	6 APR 74	2200	6 APR 74	16.55	320.94		0.52	314.15	330.75	320.87		
204	0000	7 APR 74	0600	7 APR 74	16.55	320.94		0.54	314.15	330.75	320.87		
205	1400	10 APR 74	2200	10 APR 74	16.55	320.94		0.39	314.15	330.75	320.87		
206	0000	11 APR 74	1800	11 APR 74	16.55	320.94		0.50	314.15	330.75	320.87		

Table 12. Reference Gas Information and Average Scale Differences for Steady Intervals at Baring Head, Con't. (7)

Interval No.	Time Interval			Preliminary Index			Final Index		
	Hour	Starting Date	Ending Date	(HS-I) or (HS-WG)	WG	Computed Scale Difference	I	HS	WG
207	0900	21 APR 74	22 APR 74	16.55	320.94	0.46	314.15	330.75	320.87
208	1200	22 APR 74	22 APR 74	16.55	321.14	0.32	314.15	330.75	321.13
209	0000	23 APR 74	23 APR 74	16.55	321.14	0.28	314.15	330.75	321.13
210	0000	24 APR 74	24 APR 74	16.55	321.14	0.30	314.15	330.75	321.13
211	0000	25 APR 74	25 APR 74	16.55	321.14	0.33	314.15	330.75	321.13
212	1000	26 APR 74	26 APR 74	16.55	321.14	0.40	314.15	330.75	321.13
213	0000	27 APR 74	27 APR 74	16.55	321.14	0.49	314.15	330.75	321.13
214	0000	28 APR 74	28 APR 74	16.55	321.14	0.32	314.15	330.75	321.13
215	0000	29 APR 74	29 APR 74	16.55	321.14	0.36	314.15	330.75	321.13
216	2000	3 MAY 74	4 MAY 74	16.55	321.14	0.43	314.15	330.75	321.13
217	0300	4 MAY 74	4 MAY 74	16.55	321.14	0.52	314.15	330.75	321.13
218	0500	8 MAY 74	8 MAY 74	16.55	321.14	0.57	314.15	330.75	321.13
219	1500	8 MAY 74	2000	16.55	321.14	0.61	314.15	330.75	321.13
220	2100	8 MAY 74	0200	16.55	321.14	0.53	314.15	330.75	321.13
221	1100	11 MAY 74	1600	16.55	321.14	0.45	314.15	330.75	321.13
222	1100	13 MAY 74	1800	16.55	321.14	0.48	314.15	330.75	321.13
223	1500	29 MAY 74	2300	16.55	321.14	0.59	314.15	330.75	321.13
224	0100	30 MAY 74	1100	16.55	321.14	0.69	314.15	330.75	321.13
225	1400	2 JUN 74	2300	16.55	320.49	0.98	314.15	330.75	320.47
226	0100	3 JUN 74	2100	16.55	320.49	0.90	314.15	330.75	320.47
227	2200	3 JUN 74	0400	16.55	320.49	0.92	314.15	330.75	320.47
228	0800	4 JUN 74	1700	16.55	320.49	0.81	314.15	330.75	320.47
229	0200	12 JUN 74	0900	16.55	320.49	0.72	314.15	330.75	320.47
230	1000	12 JUN 74	2300	16.55	320.49	0.81	314.15	330.75	320.47
231	0000	13 JUN 74	0200	16.55	320.49	0.81	314.15	330.75	320.47
232	0100	16 JUN 74	2300	16.55	320.49	0.77	314.15	330.75	320.47
233	0000	17 JUN 74	1900	16.55	320.49	0.81	314.15	330.75	320.47
234	0000	18 JUN 74	1500	16.55	320.49	1.01	314.15	330.75	320.47
235	1600	18 JUN 74	2300	16.55	320.49	0.86	314.15	330.75	320.47
236	0000	19 JUN 74	1500	16.55	320.49	1.00	314.15	330.75	320.47
237	1600	19 JUN 74	2300	16.55	320.49	0.84	314.15	330.75	320.47
238	0000	20 JUN 74	1800	16.55	320.49	0.91	314.15	330.75	320.47
239	0400	3 JUL 74	2300	16.55	320.49	1.06	314.15	330.75	320.47
240	0100	4 JUL 74	2300	16.55	320.49	1.07	314.15	330.75	320.47

Table 12. Reference Gas Information and Average Scale Differences for Steady Intervals at Baring Head, Con't. (8)

Interval No.	Time Interval			Preliminary Index		Computed Scale Difference	Final Index		
	Hour	Starting Date	Hour Ending Date	(HS-I) or (HS-WG)	WG		I	HS	WG
241	0100	5 JUL 74	2300 5 JUL 74	16.55	320.49	0.99	314.15	330.75	320.47
242	0000	6 JUL 74	2300 6 JUL 74	16.55	320.49	0.99	314.15	330.75	320.47
243	0000	7 JUL 74	2300 7 JUL 74	16.55	320.49	0.99	314.15	330.75	320.47
244	0100	8 JUL 74	1600 8 JUL 74	16.55	320.49	0.97	314.15	330.75	320.47
245	0100	10 JUL 74	1700 10 JUL 74	16.55	321.40	0.75	314.15	330.75	321.43
246	0400	11 JUL 74	0900 11 JUL 74	16.55	321.40	0.65	314.15	330.75	321.43
247	1700	11 JUL 74	2300 11 JUL 74	16.55	321.40	0.48	314.15	330.75	321.43
248	0000	12 JUL 74	0700 12 JUL 74	16.55	321.40	0.63	314.15	330.75	321.43
249	0600	26 JUL 74	1300 26 JUL 74	16.55	321.40	1.02	314.15	330.75	321.43
250	0400	1 AUG 74	1100 1 AUG 74	16.55	321.40	0.75	314.15	330.75	321.43
251	0000	7 AUG 74	2300 7 AUG 74	16.55	321.40	0.64	314.15	330.75	321.43
252	0000	8 AUG 74	1100 8 AUG 74	16.55	321.40	0.61	314.15	330.75	321.43
253	1200	8 AUG 74	1700 8 AUG 74	16.55	321.40	0.39	314.15	330.75	321.43
254	2000	8 AUG 74	1000 9 AUG 74	16.55	321.40	0.83	314.15	330.75	321.43
255	1200	10 AUG 74	2200 10 AUG 74	16.55	321.40	0.60	314.15	330.75	321.43
256	0800	11 AUG 74	1400 11 AUG 74	16.55	321.40	0.66	314.15	330.75	321.43
257	1500	11 AUG 74	2300 11 AUG 74	16.55	321.40	0.55	314.15	330.75	321.43
258	0000	12 AUG 74	0600 12 AUG 74	16.55	321.40	0.57	314.15	330.75	321.43
259	1900	13 AUG 74	1300 14 AUG 74	16.55	321.40	0.54	314.15	330.75	321.43
260	1700	14 AUG 74	0400 15 AUG 74	16.55	321.40	0.57	314.15	330.75	321.43
261	1300	18 AUG 74	2300 18 AUG 74	16.55	321.50	0.71	314.15	330.75	321.52
262	0000	19 AUG 74	0600 19 AUG 74	16.55	321.50	0.74	314.15	330.75	321.52
263	0700	19 AUG 74	1200 19 AUG 74	16.55	321.50	0.84	314.15	330.75	321.52
264	1300	19 AUG 74	1900 19 AUG 74	16.55	321.50	0.77	314.15	330.75	321.52
265	2000	19 AUG 74	0100 20 AUG 74	16.55	321.50	0.55	314.15	330.75	321.52
266	0200	20 AUG 74	0800 20 AUG 74	16.55	321.50	0.44	314.15	330.75	321.52
267	2100	22 AUG 74	0200 23 AUG 74	12.90	321.50	0.69	317.79	330.75	321.52
268	0400	23 AUG 74	1200 23 AUG 74	12.90	321.50	0.94	317.79	330.75	321.52
269	1400	23 AUG 74	2100 23 AUG 74	12.90	321.50	0.64	317.79	330.75	321.52
270	0300	24 AUG 74	1200 24 AUG 74	12.90	321.50	0.94	317.79	330.75	321.52
271	1700	24 AUG 74	2200 24 AUG 74	12.90	321.50	0.64	317.79	330.75	321.52
272	2300	24 AUG 74	1600 25 AUG 74	12.90	321.50	0.72	317.79	330.75	321.52
273	1800	25 AUG 74	0100 26 AUG 74	12.90	321.50	0.64	317.79	330.75	321.52
274	1300	26 AUG 74	2000 26 AUG 74	12.90	321.50	0.81	317.79	330.75	321.52
275	2100	26 AUG 74	0500 27 AUG 74	12.90	321.50	0.65	317.79	330.75	321.52
276	1600	27 AUG 74	2300 27 AUG 74	12.90	321.50	0.69	317.79	330.75	321.52

Table 12. Reference Gas Information and Average Scale Differences for Steady Intervals at Baring Head, Con't. (9)

Interval No.	Time Interval			Preliminary Index			Final Index		
	Hour	Starting Date	Ending Date	(HS-I) or (HS-WG)	WG	Computed Scale Difference	I	HS	WG
277	0000	28 AUG 74	0500 28 AUG 74	12.90	321.50	0.68	317.79	330.75	321.52
278	0600	28 AUG 74	1300 28 AUG 74	12.90	321.50	0.88	317.79	330.75	321.52
279	2000	29 AUG 74	0600 30 AUG 74	12.90	321.50	0.64	317.79	330.75	321.52
280	0000	3 SEP 74	0500 3 SEP 74	12.90	321.50	0.83	317.79	330.75	321.52
281	1600	3 SEP 74	2300 3 SEP 74	12.90	321.50	0.74	317.79	330.75	321.52
282	1100	4 SEP 74	1700 4 SEP 74	12.90	321.50	0.70	317.79	330.75	321.52
283	2100	5 SEP 74	0600 6 SEP 74	12.90	321.50	0.63	317.79	330.75	321.52
284	1600	9 SEP 74	2100 9 SEP 74	12.90	321.50	0.74	317.79	330.75	321.52
285	0100	10 SEP 74	1200 10 SEP 74	12.90	321.50	1.15	317.79	330.75	321.52
286	0500	11 SEP 74	2300 11 SEP 74	12.90	321.50	0.75	317.79	330.75	321.52
287	0000	12 SEP 74	0900 12 SEP 74	12.90	321.50	0.74	317.79	330.75	321.52
288	1000	12 SEP 74	1800 12 SEP 74	12.90	321.50	0.84	317.79	330.75	321.52
289	1300	13 SEP 74	2300 13 SEP 74	12.90	321.50	0.73	317.79	330.75	321.52
290	0000	14 SEP 74	0900 14 SEP 74	12.90	321.50	0.71	317.79	330.75	321.52
291	1400	14 SEP 74	1900 14 SEP 74	12.90	321.50	0.77	317.79	330.75	321.52
292	1700	19 SEP 74	2300 19 SEP 74	12.90	321.50	0.49	317.79	330.75	321.52
293	0000	20 SEP 74	1300 20 SEP 74	12.90	321.50	0.56	317.79	330.75	321.52
294	1400	20 SEP 74	2100 20 SEP 74	12.90	321.50	0.43	317.79	330.75	321.52
295	1500	27 SEP 74	2300 27 SEP 74	12.90	319.39	1.00	317.79	330.75	319.43
296	0100	28 SEP 74	1100 28 SEP 74	12.90	319.39	1.27	317.79	330.75	319.43
297	1200	28 SEP 74	1700 28 SEP 74	12.90	319.39	1.35	317.79	330.75	319.43
298	1800	28 SEP 74	2300 28 SEP 74	12.90	319.39	1.28	317.79	330.75	319.43
299	0000	29 SEP 74	1100 29 SEP 74	12.90	319.39	1.30	317.79	330.75	319.43
300	1200	29 SEP 74	1700 29 SEP 74	12.90	319.39	1.39	317.79	330.75	319.43
301	1800	29 SEP 74	2300 29 SEP 74	12.90	319.39	1.32	317.79	330.75	319.43
302	0000	30 SEP 74	1200 30 SEP 74	12.90	319.39	1.30	317.79	330.75	319.43
303	1300	30 SEP 74	1800 30 SEP 74	12.90	319.39	1.33	317.79	330.75	319.43
304	0300	9 OCT 74	1400 9 OCT 74	12.90	319.39	1.20	317.79	330.75	319.43
305	0100	10 OCT 74	0700 10 OCT 74	12.90	319.39	1.33	317.79	330.75	319.43
306	0100	13 OCT 74	0600 13 OCT 74	12.90	319.39	1.29	317.79	330.75	319.43
307	1300	18 OCT 74	2300 18 OCT 74	12.90	319.39	1.04	317.79	330.75	319.43
308	2300	21 OCT 74	0600 22 OCT 74	12.62	319.39	1.58	317.79	330.42	319.43
309	0700	22 OCT 74	1400 22 OCT 74	12.62	319.39	1.14	317.79	330.42	319.43
310	0300	23 OCT 74	0800 23 OCT 74	12.62	319.39	1.18	317.79	330.42	319.43
311	1000	25 OCT 74	1500 25 OCT 74	12.62	319.39	1.18	317.79	330.42	319.43

Table 12. Reference Gas Information and Average Scale Differences for Steady Intervals at Baring Head, Con't. (10)

Interval No.	Time Interval			Preliminary Index			Final Index		
	Hour	Starting Date	Ending Date	(HS-I) or (HS-WG)	WG	Computed Scale Difference	I	HS	WG
312	1200	28 OCT 74	28 OCT 74	12.62	319.39	1.30	317.79	330.42	319.43
313	1600	29 OCT 74	29 OCT 74	12.62	319.39	1.11	317.79	330.42	319.43
314	2200	29 OCT 74	30 OCT 74	12.62	319.39	0.99	317.79	330.42	319.43
315	1100	30 OCT 74	30 OCT 74	12.62	319.39	1.27	317.79	330.42	319.43
316	1800	30 OCT 74	30 OCT 74	12.62	319.39	1.23	317.79	330.42	319.43
317	0000	31 OCT 74	31 OCT 74	12.62	319.39	1.29	317.79	330.42	319.43
318	1800	31 OCT 74	1 NOV 74	12.62	319.39	1.20	317.79	330.42	319.43
319	0300	1 NOV 74	1 NOV 74	12.62	319.39	1.15	317.79	330.42	319.43
320	1000	1 NOV 74	1 NOV 74	12.62	319.39	1.34	317.79	330.42	319.43
321	1300	2 NOV 74	2 NOV 74	12.62	319.39	1.30	317.79	330.42	319.43
322	1900	2 NOV 74	3 NOV 74	12.62	319.39	1.19	317.79	330.42	319.43
323	1700	3 NOV 74	3 NOV 74	12.62	319.39	1.20	317.79	330.42	319.43
324	0000	4 NOV 74	4 NOV 74	12.62	319.39	1.11	317.79	330.42	319.43
325	2000	4 NOV 74	5 NOV 74	12.62	319.96	0.94	317.79	330.42	319.94
326	1700	16 NOV 74	17 NOV 74	12.62	319.96	1.03	317.79	330.42	319.94
327	0400	21 NOV 74	21 NOV 74	12.62	319.96	0.98	317.79	330.42	319.94
328	1700	21 NOV 74	22 NOV 74	12.62	319.96	1.10	317.79	330.42	319.94
329	2300	21 NOV 74	22 NOV 74	12.62	319.96	1.03	317.79	330.42	319.94
330	1900	22 NOV 74	23 NOV 74	12.62	319.96	0.99	317.79	330.42	319.94
331	1300	26 NOV 74	26 NOV 74	12.62	319.96	1.15	317.79	330.42	319.94
332	1300	10 DEC 74	10 DEC 74	12.62	319.96	1.04	317.79	330.42	319.94
333	1900	10 DEC 74	11 DEC 74	12.62	319.96	0.99	317.79	330.42	319.94
334	1700	14 DEC 74	14 DEC 74	12.62	318.76	1.49	317.79	330.42	318.83
335	1900	15 DEC 74	16 DEC 74	12.62	318.76	1.43	317.79	330.42	318.83
336	0200	16 DEC 74	16 DEC 74	12.62	318.76	1.33	317.79	330.42	318.83
337	2100	23 DEC 74	24 DEC 74	12.62	318.76	1.37	317.79	330.42	318.83
338	0600	1 JAN 75	1 JAN 75	12.62	318.76	1.49	317.79	330.42	318.83
339	2200	9 JAN 75	10 JAN 75	12.62	318.76	1.48	317.79	330.42	318.83
340	1900	10 JAN 75	11 JAN 75	12.62	318.76	1.43	317.79	330.42	318.83
341	2100	11 JAN 75	12 JAN 75	12.62	318.76	1.50	317.79	330.42	318.83
342	2400	17 JAN 75	17 JAN 75	12.62	318.76	1.50	317.79	330.42	318.83
343	2200	18 JAN 75	19 JAN 75	12.62	318.76	1.47	317.79	330.42	318.83
344	1900	20 JAN 75	21 JAN 75	12.62	318.76	1.48	317.79	330.42	318.83
345	1200	29 JAN 75	29 JAN 75	12.62	319.16	1.43	317.79	330.42	319.12

Table 12. Reference Gas Information and Average Scale Differences for Steady Intervals at Baring Head, Con't. (11)

Interval No.	Time Interval			Preliminary Index			Final Index		
	Hour	Starting Date	Ending Date	(HS-I) or (HS-WG)	WG	Computed Scale Difference	I	HS	WG
346	2100	29 JAN 75	30 JAN 75	12.62	319.16	1.36	317.79	330.42	319.12
347	2200	30 JAN 75	31 JAN 75	12.62	319.16	1.22	317.79	330.42	319.12
348	2100	31 JAN 75	1 FEB 75	12.62	319.16	1.33	317.79	330.42	319.12
349	1900	5 FEB 75	6 FEB 75	12.62	319.16	1.80	317.79	330.42	319.12
350	1800	7 FEB 75	8 FEB 75	12.62	319.16	1.47	317.79	330.42	319.12
351	0000	17 FEB 75	17 FEB 75	12.62	319.16	1.76	317.79	330.42	319.12
352	0000	18 FEB 75	18 FEB 75	12.62	319.16	1.82	317.79	330.42	319.12
353	0200	25 FEB 75	25 FEB 75	12.62	319.16	1.60	317.79	330.42	319.12
354	0900	25 FEB 75	1400 25 FEB 75	12.62	319.16	1.70	317.79	330.42	319.12
355	1500	25 FEB 75	2300 25 FEB 75	12.62	319.16	1.64	317.79	330.42	319.12
356	0000	26 FEB 75	0500 26 FEB 75	12.62	319.16	1.70	317.79	330.42	319.12
357	1200	26 FEB 75	1700 26 FEB 75	12.62	319.16	1.82	317.79	330.42	319.12
358	1900	26 FEB 75	0300 27 FEB 75	12.62	319.16	2.01	317.79	330.42	319.12
359	0400	27 FEB 75	1200 27 FEB 75	12.62	319.16	1.80	317.79	330.42	319.12
360	1200	28 FEB 75	0000 1 MAR 75	12.62	319.16	1.64	317.79	330.42	319.12
361	1400	1 MAR 75	2200 1 MAR 75	12.62	319.16	1.77	317.79	330.42	319.12
362	0500	6 MAR 75	2300 6 MAR 75	12.62	320.22	1.16	317.79	330.42	320.21
363	1200	9 MAR 75	2100 9 MAR 75	12.62	320.22	1.25	317.79	330.42	320.21
364	1200	11 MAR 75	2000 11 MAR 75	12.62	320.22	1.06	317.79	330.42	320.21
365	0100	12 MAR 75	1300 12 MAR 75	12.62	320.22	1.12	317.79	330.42	320.21
366	1700	4 APR 75	2200 4 APR 75	10.24	320.22	1.38	317.79	330.42	320.21
367	1600	14 APR 75	2300 14 APR 75	11.55	318.91	1.86	317.79	330.42	318.85
368	2100	25 APR 75	0300 26 APR 75	11.55	318.91	2.05	317.79	330.42	318.85
369	0700	26 APR 75	1200 26 APR 75	11.55	318.91	2.24	317.79	330.42	318.85
370	1200	30 APR 75	2000 30 APR 75	11.55	318.91	1.94	317.79	330.42	318.85
371	2100	30 APR 75	0300 1 MAY 75	11.55	318.91	2.05	317.79	330.42	318.85
372	0300	7 MAY 75	0800 7 MAY 75	11.55	318.91	2.04	317.79	330.42	318.85
373	1500	7 MAY 75	2100 7 MAY 75	11.55	318.91	2.09	317.79	330.42	318.85
374	0800	26 MAY 75	1300 26 MAY 75	12.76	319.12	1.94	317.79	331.87	319.40
375	0400	27 MAY 75	1200 27 MAY 75	12.76	319.12	1.99	317.79	331.87	319.40
376	1300	27 MAY 75	1800 27 MAY 75	12.76	319.12	1.92	317.79	331.87	319.40
377	2300	28 MAY 75	0900 29 MAY 75	12.76	319.12	2.13	317.79	331.87	319.40
378	1300	29 MAY 75	1900 29 MAY 75	12.76	319.12	2.36	317.79	331.87	319.40

Table 12. Reference Gas Information and Average Scale Differences for Steady Intervals at Baring Head, Con't. (12)

Interval No.	Time Interval				Preliminary Index			Computed Scale Difference			Final Index		
	Hour	Starting Date	Hour	Ending Date	(HS-I) or (HS-WG)	WG		Difference	I	HS	WG		
379	1300	31 MAY 75	2300	31 MAY 75	12.76	319.12		2.10	317.79	331.87		319.40	
380	0800	1 JUN 75	1500	1 JUN 75	12.76	319.12		2.15	317.79	331.87		319.40	
381	1600	1 JUN 75	2200	1 JUN 75	12.76	319.12		2.10	317.79	331.87		319.40	
382	2100	7 JUN 75	0300	8 JUN 75	10.70	321.18		1.19	317.79	331.87		321.17	
383	0400	8 JUN 75	1400	8 JUN 75	10.70	321.18		1.27	317.79	331.87		321.17	
384	1600	10 JUN 75	2300	10 JUN 75	10.70	321.18		1.14	317.79	331.87		321.17	
385	0000	11 JUN 75	1700	11 JUN 75	10.70	321.18		1.20	317.79	331.87		321.17	
386	0800	14 JUN 75	1500	14 JUN 75	10.70	321.18		1.61	317.79	331.87		321.17	
387	0100	15 JUN 75	2300	15 JUN 75	10.70	321.18		1.41	317.79	331.87		321.17	
388	0000	16 JUN 75	0500	16 JUN 75	10.70	321.18		1.48	317.79	331.87		321.17	
389	1200	21 JUN 75	1800	21 JUN 75	10.70	321.18		1.27	317.79	331.87		321.17	
390	1300	22 JUN 75	2000	22 JUN 75	10.70	321.18		1.30	317.79	331.87		321.17	
391	2100	22 JUN 75	1700	23 JUN 75	10.70	321.18		1.20	317.79	331.87		321.17	
392	2200	24 JUN 75	0300	25 JUN 75	10.70	321.18		1.42	317.79	331.87		321.17	
393	0500	25 JUN 75	1200	25 JUN 75	10.70	321.18		1.56	317.79	331.87		321.17	
394	1300	25 JUN 75	1800	25 JUN 75	10.70	321.18		1.45	317.79	331.87		321.17	
395	1700	26 JUN 75	2300	26 JUN 75	15.47	316.41		4.45	317.79	331.87		316.43	
396	0000	27 JUN 75	1300	27 JUN 75	15.47	316.41		4.36	317.79	331.87		316.43	
397	1400	27 JUN 75	1900	27 JUN 75	15.47	316.41		4.30	317.79	331.87		316.43	
398	1300	28 JUN 75	2000	28 JUN 75	15.47	316.41		4.46	317.79	331.87		316.43	
399	0900	29 JUN 75	1700	29 JUN 75	15.47	316.41		4.86	317.79	331.87		316.43	
400	1800	2 JUL 75	0100	3 JUL 75	15.47	316.41		4.56	317.79	331.87		316.43	
401	2100	3 JUL 75	0900	4 JUL 75	24.21	316.41		4.67	317.79	340.66		316.43	
402	1000	4 JUL 75	1500	4 JUL 75	24.21	316.41		4.61	317.79	340.66		316.43	
403	1600	4 JUL 75	2100	4 JUL 75	24.21	316.41		4.42	317.79	340.66		316.43	
404	2200	4 JUL 75	1400	5 JUL 75	24.21	316.41		4.70	317.79	340.66		316.43	
405	0700	6 JUL 75	1500	6 JUL 75	24.21	316.41		4.75	317.79	340.66		316.43	
406	1600	7 JUL 75	0300	8 JUL 75	24.21	316.41		4.60	317.79	340.66		316.43	
407	1700	17 JUL 75	2300	17 JUL 75	24.21	316.41		4.76	317.79	340.66		316.43	
408	0000	18 JUL 75	0800	18 JUL 75	24.21	316.41		4.95	317.79	340.66		316.43	
409	0900	18 JUL 75	1500	18 JUL 75	24.21	316.41		5.16	317.79	340.66		316.43	
410	1600	18 JUL 75	2100	18 JUL 75	24.21	316.41		4.84	317.79	340.66		316.43	
411	1200	21 JUL 75	2300	21 JUL 75	24.21	316.41		4.98	317.79	340.66		316.43	
412	0000	22 JUL 75	0900	22 JUL 75	24.21	316.41		5.13	317.79	340.66		316.43	
413	1000	22 JUL 75	1500	22 JUL 75	24.21	316.41		5.11	317.79	340.66		316.43	

Table 12. Reference Gas Information and Average Scale Differences for Steady Intervals at Baring Head, Con't. (13)

Interval No.	Time Interval		Preliminary Index		Computed Scale Difference	Final Index				
	Hour	Starting Date	Hour	Ending Date		(HS-I) or (HS-WG)	WG	I	HS	WG
414	1600	22 JUL 75	2100	22 JUL 75	4.87	24.21	316.41	317.79	340.66	316.44
415	2200	22 JUL 75	0800	23 JUL 75	5.07	24.21	316.41	317.79	340.66	316.44
416	0900	23 JUL 75	1400	23 JUL 75	5.21	24.21	316.41	317.79	340.66	316.44
417	1500	23 JUL 75	2300	23 JUL 75	4.98	24.21	316.41	317.79	340.66	316.44
418	0000	24 JUL 75	0800	24 JUL 75	5.15	24.21	316.41	317.79	340.66	316.44
419	0800	30 JUL 75	1900	30 JUL 75	5.17	24.21	316.41	317.79	340.66	316.44
420	2200	2 AUG 75	0400	3 AUG 75	4.89	24.21	316.41	317.79	340.66	316.44
421	0600	3 AUG 75	1100	3 AUG 75	5.21	24.21	316.41	317.79	340.66	316.44
422	1600	7 AUG 75	2300	7 AUG 75	5.79	24.75	315.87	317.79	340.66	315.83
423	0000	8 AUG 75	0500	8 AUG 75	5.80	24.75	315.87	317.79	340.66	315.83
424	1600	8 AUG 75	2200	8 AUG 75	5.73	24.75	315.87	317.79	340.66	315.83
425	1400	20 AUG 75	2100	20 AUG 75	5.95	24.75	315.87	317.79	340.66	315.83
426	2000	21 AUG 75	0100	22 AUG 75	6.40	24.75	315.87	317.79	340.66	315.83
427	0200	22 AUG 75	1300	22 AUG 75	6.55	24.75	315.87	317.79	340.66	315.83
428	1500	22 AUG 75	2000	22 AUG 75	5.99	24.75	315.87	317.79	340.66	315.83
429	2100	22 AUG 75	0200	23 AUG 75	6.28	24.75	315.87	317.79	340.66	315.83
430	0400	23 AUG 75	1500	23 AUG 75	6.71	24.75	315.87	317.79	340.66	315.83
431	0400	4 SEP 75	0100	5 SEP 75	2.35	19.71	320.91	317.79	340.66	321.03
432	0300	5 SEP 75	2000	5 SEP 75	2.43	19.71	320.91	317.79	340.66	321.03
433	2100	5 SEP 75	0900	6 SEP 75	2.67	19.71	320.91	317.79	340.66	321.03
434	0100	12 SEP 75	0700	12 SEP 75	1.71	19.71	320.91	317.79	340.66	321.03
435	0800	12 SEP 75	1300	12 SEP 75	1.94	19.71	320.91	317.79	340.66	321.03
439	1600	9 OCT 75	2000	10 OCT 75	0.84	17.60	323.02	317.79	340.66	322.70
440	2300	10 OCT 75	0600	11 OCT 75	0.85	17.60	323.02	317.79	340.66	322.70
441	0400	19 OCT 75	1100	19 OCT 75	2.51	21.00	319.62	317.79	340.66	319.60
442	2100	19 OCT 75	0900	20 OCT 75	2.51	21.00	319.62	317.79	340.66	319.60
443	1000	27 OCT 75	2100	27 OCT 75	2.40	21.12	319.50	317.79	340.66	319.53
444	2200	27 OCT 75	0200	29 OCT 75	2.52	21.12	319.50	317.79	340.66	319.53
445	2200	2 NOV 75	1200	3 NOV 75	2.48	21.12	319.50	317.79	340.66	319.53
446	1300	3 NOV 75	1900	3 NOV 75	2.36	21.12	319.50	317.79	340.66	319.53
447	1600	4 NOV 75	1900	5 NOV 75	2.52	21.12	319.50	317.79	340.66	319.53
448	1600	8 NOV 75	0300	9 NOV 75	2.64	21.12	319.50	317.79	340.66	319.53
449	0300	14 NOV 75	0900	14 NOV 75	2.64	21.12	319.50	317.79	340.66	319.53

Table 12. Reference Gas Information and Average Scale Differences for Steady Intervals at Baring Head, Con't. (14)

Interval No.	Time Interval				Preliminary Index			Final Index		
	Hour	Starting Date	Hour	Ending Date	(HS-I) or (HS-WG)	WG	Computed Scale Difference	I	HS	WG
450	1000	14 NOV 75	1600	14 NOV 75	21.12	319.50	2.89	317.79	340.66	319.53
451	1100	17 NOV 75	2100	17 NOV 75	21.12	319.50	2.54	317.79	340.66	319.53
452	2100	19 NOV 75	0500	20 NOV 75	21.12	319.50	2.45	317.79	340.66	319.53
453	0900	20 NOV 75	1500	20 NOV 75	21.12	319.50	2.78	317.79	340.66	319.53
454	1100	21 NOV 75	1600	21 NOV 75	21.12	319.50	2.59	317.79	340.66	319.53
455	1700	21 NOV 75	2300	21 NOV 75	21.12	319.50	2.50	317.79	340.66	319.53
456	1500	22 NOV 75	2200	22 NOV 75	21.12	319.50	2.88	317.79	340.66	319.53
457	0100	14 DEC 75	0600	14 DEC 75	22.91	317.71	3.94	317.79	340.66	317.60
458	0900	14 DEC 75	1400	14 DEC 75	22.91	317.71	4.03	317.79	340.66	317.60
459	1800	14 DEC 75	0700	15 DEC 75	22.91	317.71	3.36	317.79	340.66	317.60
460	1400	26 DEC 75	0100	27 DEC 75	22.91	317.71	3.25	317.79	340.66	317.60
461	0800	29 DEC 75	1100	30 DEC 75	22.91	317.71	3.30	317.79	340.66	317.60
462	1200	30 DEC 75	2000	30 DEC 75	22.91	317.71	3.39	317.79	340.66	317.60
463	0100	31 DEC 75	2300	31 DEC 75	22.91	317.71	3.28	317.79	340.66	317.60

Table 13. Mean CO₂ Indices at Baring Head for Steady Intervals

Interval No.	Assigned Date	No. of Hours	Recorder Scale Factor		K	L		I
			Preliminary	Final		Preliminary	Final	
1	20 DEC 72	7	2.612	2.622	0.001856	320.21	320.20	320.08
2	21 DEC 72	8	2.636	2.647	0.001856	320.48	320.47	320.36
3	22 DEC 72	10	2.644	2.655	0.001856	320.80	320.79	320.69
4	27 DEC 72	7	2.579	2.589	0.002790	320.27	320.26	320.08
5	6 JAN 73	11	2.770	2.770	0.003147	320.82	320.87	320.66
6	9 JAN 73	6	2.932	2.932	0.002849	320.82	320.87	320.68
7	12 JAN 73	10	3.294	3.294	0.002520	320.90	320.95	320.79
8	13 JAN 73	7	3.294	3.294	0.002457	320.09	320.14	319.94
9	17 JAN 73	13	3.060	3.060	0.002107	320.68	320.73	320.59
10	17 JAN 73	7	3.020	3.020	0.002056	320.36	320.41	320.26
11	6 FEB 73	7	2.173	2.173	0.002241	321.74	321.79	321.68
12	8 FEB 73	17	2.161	2.161	0.002310	320.38	320.43	320.26
13	11 FEB 73	9	2.116	2.123	0.002465	320.84	320.84	320.66
14	12 FEB 73	7	2.080	2.087	0.002568	320.52	320.52	320.32
15	12 FEB 73	7	2.076	2.083	0.002589	320.75	320.75	320.56
16	13 FEB 73	12	2.063	2.070	0.002618	320.32	320.32	320.10
17	13 FEB 73	7	2.054	2.061	0.002646	320.61	320.61	320.41
18	14 FEB 73	8	2.058	2.065	0.002711	320.60	320.60	320.39
19	17 FEB 73	18	2.087	2.094	0.002926	321.11	321.11	320.92
20	18 FEB 73	14	2.116	2.123	0.002980	320.73	320.73	320.51
21	21 FEB 73	8	2.160	2.167	0.003237	321.62	321.63	321.44
22	22 FEB 73	14	2.118	2.125	0.003295	321.14	321.14	320.92
23	23 FEB 73	18	2.120	2.127	0.003345	320.98	320.98	320.75
24	7 MAR 73	11	2.200	2.208	0.004188	321.11	321.11	320.82
25	9 MAR 73	6	2.200	2.208	0.004291	321.06	321.06	320.76
26	10 MAR 73	16	2.190	2.198	0.004290	321.07	321.07	320.77
27	12 MAR 73	16	2.203	2.211	0.004284	321.30	321.30	321.02
28	13 MAR 73	9	2.224	2.232	0.004282	321.26	321.26	320.98
29	17 MAR 73	6	2.196	2.204	0.004268	321.14	321.14	320.85
30	21 MAR 73	13	2.198	2.206	0.004257	321.50	321.50	321.24
31	24 MAR 73	14	2.196	2.194	0.004302	321.51	321.57	321.48
32	25 MAR 73	6	2.174	2.172	0.004302	321.42	321.48	321.38
33	26 MAR 73	33	2.175	2.173	0.004302	321.34	321.34	321.23
34	27 MAR 73	8	2.159	2.157	0.004302	321.25	321.31	321.20

Table 13. Mean CO₂ Indices at Baring Head for Steady Intervals, Con't. (2)

Interval No.	Assigned Date	No. of Hours	Recorder Scale Factor		K	L		I
			Preliminary	Final		Preliminary	Final	
35	27 MAR 73	10	2.144	2.142	0.004302	321.02	321.08	320.95
36	30 MAR 73	6	2.252	2.250	0.004302	321.31	321.37	321.26
37	1 APR 73	12	2.271	2.269	0.004302	321.53	321.59	321.50
38	2 APR 73	12	2.289	2.287	0.004302	321.28	321.34	321.23
39	2 APR 73	9	2.156	2.154	0.004302	321.29	321.35	321.24
40	3 APR 73	17	2.135	2.133	0.004302	321.18	321.24	321.12
41	3 APR 73	7	2.144	2.142	0.004302	321.28	321.34	321.23
42	4 APR 73	24	2.148	2.146	0.004302	321.28	321.34	321.23
43	5 APR 73	28	2.140	2.138	0.004302	321.28	321.34	321.23
44	6 APR 73	10	2.159	2.157	0.004302	321.10	321.16	321.04
45	9 APR 73	7	2.165	2.163	0.004302	321.09	321.15	321.03
46	11 APR 73	7	2.179	2.177	0.004302	320.98	321.04	320.91
47	13 APR 73	7	2.525	2.523	0.002438	321.44	321.50	321.45
48	14 APR 73	17	2.517	2.515	0.002438	321.37	321.43	321.31
49	17 APR 73	15	2.534	2.532	0.002438	321.26	321.32	321.26
50	24 APR 73	7	2.467	2.465	0.002438	321.64	321.70	321.65
51	30 APR 73	6	2.563	2.555	0.000507	321.03	321.12	321.14
52	13 MAY 73	9	2.213	2.206	0.000507	321.02	321.11	321.13
53	14 MAY 73	9	2.207	2.200	0.000507	321.06	321.15	321.17
54	14 MAY 73	9	2.194	2.187	0.000507	321.16	321.25	321.27
55	15 MAY 73	9	2.195	2.188	0.000507	321.16	321.25	321.27
56	21 MAY 73	8	2.180	2.173	0.000507	321.54	321.63	321.65
57	25 MAY 73	10	2.074	2.068	0.000507	321.35	321.44	321.46
58	13 JUN 73	6	2.177	2.187	0.001592	321.32	321.31	321.38
59	14 JUN 73	23	2.178	2.188	0.001674	321.32	321.31	321.38
60	15 JUN 73	15	2.183	2.194	0.001769	321.17	321.16	321.23
61	15 JUN 73	7	2.179	2.189	0.001840	321.21	321.20	321.28
62	16 JUN 73	8	2.161	2.171	0.001942	321.22	321.21	321.29
63	17 JUN 73	8	2.160	2.170	0.001992	321.42	321.41	321.50
64	17 JUN 73	10	2.156	2.166	0.002073	321.19	321.18	321.27
65	18 JUN 73	14	2.155	2.165	0.002133	321.28	321.27	321.36
66	19 JUN 73	6	2.148	2.158	0.002313	322.29	322.28	322.41
67	28 JUN 73	10	2.195	2.206	0.003310	321.51	321.50	321.66
68	29 JUN 73	7	2.165	2.174	0.003210	321.75	321.74	321.87
69	30 JUN 73	9	2.128	2.137	0.002850	321.67	321.66	321.77

Table 13. Mean CO₂ Indices at Baring Head for Steady Intervals, Con't. (3)

Interval No.	Assigned Date	No. of Hours	Recorder Scale Factor		K	L		I
			Preliminary	Final		Preliminary	Final	
70	1 JUL 73	20	2.119	2.128	0.002699	321.43	321.41	321.52
71	2 JUL 73	10	2.126	2.135	0.002553	321.63	321.62	321.72
72	6 JUL 73	6	2.148	2.157	0.001443	322.03	322.02	322.08
73	7 JUL 73	17	2.144	2.153	0.001312	321.57	321.56	321.61
74	10 JUL 73	16	2.128	2.137	0.000548	321.76	321.75	321.77
75	11 JUL 73	24	2.133	2.142	0.000353	321.71	321.70	321.71
76	12 JUL 73	7	2.120	2.129	0.000202	322.17	322.16	322.17
77	12 JUL 73	77	2.118	2.127	0.000041	321.63	321.62	321.62
78	13 JUL 73	8	2.155	2.147	-0.000113	321.45	321.52	321.52
79	14 JUL 73	29	2.154	2.146	-0.000113	321.43	321.50	321.50
80	15 JUL 73	12	2.151	2.143	-0.000113	321.58	321.65	321.64
81	24 JUL 73	7	2.012	2.005	0.000529	322.46	322.52	322.55
82	25 JUL 73	11	2.006	1.999	0.000529	322.00	322.07	322.09
83	26 JUL 73	6	2.002	1.995	0.000529	321.93	322.00	322.02
84	26 JUL 73	12	1.991	1.984	0.000529	321.70	321.77	321.79
85	27 JUL 73	24	1.987	1.980	0.000529	321.79	321.86	321.88
86	28 JUL 73	8	1.983	1.976	0.000529	321.78	321.85	321.87
87	28 JUL 73	9	1.972	1.965	0.000529	321.86	321.93	321.95
88	29 JUL 73	17	1.955	1.948	0.000529	322.06	322.13	322.15
89	29 JUL 73	8	1.951	1.944	0.000529	321.80	321.87	321.89
90	30 JUL 73	7	1.954	1.947	0.000529	322.07	322.14	322.16
91	30 JUL 73	16	1.953	1.946	0.000529	321.86	321.93	321.95
92	31 JUL 73	28	1.944	1.937	0.000529	321.81	321.88	321.90
93	3 AUG 73	6	1.998	1.991	0.000951	322.16	322.23	322.26
94	4 AUG 73	13	1.987	1.980	0.001065	322.36	322.42	322.47
95	6 AUG 73	9	2.003	1.996	0.001631	322.15	322.22	322.28
96	6 AUG 73	10	1.997	1.990	0.001746	321.95	322.02	322.08
97	7 AUG 73	13	1.992	1.985	0.001884	322.24	322.31	322.38
98	7 AUG 73	13	2.123	2.115	0.002053	321.63	321.70	321.77
99	8 AUG 73	7	2.129	2.121	0.002221	321.95	322.02	322.10
100	8 AUG 73	14	2.119	2.111	0.002384	321.58	321.65	321.73
101	16 AUG 73	7	1.999	1.992	0.004521	321.94	322.01	322.17
102	17 AUG 73	15	2.053	2.017	0.004508	321.95	322.15	322.35
103	17 AUG 73	8	2.019	1.984	0.004454	321.84	322.05	322.23
104	18 AUG 73	28	2.041	2.005	0.004369	321.95	322.15	322.34
105	19 AUG 73	18	2.040	2.004	0.004261	321.78	321.99	322.16

Table 13. Mean CO₂ Indices at Baring Head for Steady Intervals, Con't. (4)

Interval No.	Assigned Date	No. of Hours	Recorder Scale Factor		K	L		I
			Preliminary	Final		Preliminary	Final	
106	21 AUG 73	8	2.069	2.033	0.004025	322.56	322.75	322.94
107	21 AUG 73	6	2.063	2.027	0.003983	322.00	322.20	322.37
108	22 AUG 73	25	2.050	2.014	0.003910	322.10	322.30	322.47
109	23 AUG 73	12	2.052	2.016	0.003823	322.09	322.29	322.46
110	23 AUG 73	11	2.041	2.005	0.003759	321.73	321.94	322.09
111	2 SEP 73	7	2.063	2.027	0.002625	321.92	322.12	322.24
112	8 SEP 73	11	2.114	2.077	0.002042	322.09	322.29	322.38
113	8 SEP 73	7	2.091	2.054	0.001999	322.43	322.63	322.71
114	8 SEP 73	9	2.075	2.039	0.001947	321.87	322.08	322.16
115	9 SEP 73	10	2.055	2.019	0.001851	321.85	322.06	322.13
116	16 SEP 73	11	2.048	2.012	0.002460	321.99	322.19	322.30
117	16 SEP 73	7	2.043	2.007	0.002505	321.79	322.00	322.10
118	1 CCT 73	8	2.003	2.010	0.003803	322.20	322.19	322.34
119	3 CCT 73	9	1.983	1.990	0.003838	322.15	322.14	322.29
120	4 CCT 73	10	1.956	1.963	0.003848	322.93	322.93	323.09
121	4 CCT 73	7	1.947	1.954	0.003854	322.58	322.58	322.73
122	17 CCT 73	8	1.994	2.001	0.004080	322.52	322.52	322.68
123	17 CCT 73	7	1.994	2.001	0.004086	322.31	322.30	322.47
124	24 CCT 73	8	2.024	2.031	0.004199	322.27	322.27	322.44
125	24 CCT 73	12	2.016	2.023	0.004209	322.21	322.20	322.37
126	24 CCT 73	7	2.013	2.020	0.004216	322.31	322.30	322.47
127	25 CCT 73	7	2.019	2.026	0.004228	321.90	321.89	322.05
128	27 CCT 73	10	2.028	2.035	0.004264	321.85	321.84	322.00
129	9 NOV 73	9	2.053	2.068	0.004512	322.39	322.35	322.54
130	10 NOV 73	13	2.045	2.060	0.004533	322.36	322.32	322.50
131	14 NOV 73	12	2.062	2.077	0.004683	322.04	322.00	322.18
132	15 NOV 73	12	2.062	2.077	0.004701	322.24	322.20	322.39
133	16 NOV 73	7	2.044	2.059	0.004731	322.91	322.87	323.08
134	19 NOV 73	8	2.049	2.064	0.004848	322.41	322.37	322.57
135	28 NOV 73	10	2.080	2.095	0.005168	322.09	322.05	322.25
136	28 NOV 73	8	2.076	2.091	0.005186	322.40	322.36	322.57
137	29 NOV 73	6	2.075	2.090	0.005203	321.30	321.25	321.43
138	29 NOV 73	7	2.070	2.085	0.005214	321.83	321.79	321.98
139	2 DEC 73	6	2.079	2.094	0.005322	322.56	322.52	322.75

Table 13. Mean CO₂ Indices at Baring Head for Steady Intervals, Con't. (5)

Interval No.	Assigned Date	No. of Hours	Recorder Scale Factor		K	L		I
			Preliminary	Final		Preliminary	Final	
140	6 DEC 73	6	2.107	2.122	0.005459	321.97	321.93	322.14
141	9 DEC 73	6	2.119	2.135	0.005558	321.98	321.94	322.15
142	9 DEC 73	6	2.108	2.123	0.005567	322.14	322.10	322.32
143	11 DEC 73	13	2.095	2.110	0.005637	321.92	321.88	322.09
144	12 DEC 73	6	2.088	2.103	0.005651	322.27	322.23	322.46
145	12 DEC 73	7	2.091	2.106	0.005673	322.01	321.97	322.19
146	18 DEC 73	12	2.133	2.149	0.005891	322.22	322.18	322.42
147	19 DEC 73	20	2.134	2.150	0.005919	322.12	322.08	322.31
148	20 DEC 73	10	2.140	2.156	0.005941	322.13	322.09	322.33
149	20 DEC 73	9	2.121	2.140	0.005980	322.01	321.95	322.19
150	21 DEC 73	21	2.121	2.140	0.006030	322.06	322.00	322.25
152	3 JAN 74	6	2.227	2.246	0.007106	322.03	321.97	322.26
153	4 JAN 74	7	2.216	2.235	0.007158	321.46	321.40	321.66
154	9 JAN 74	6	2.257	2.277	0.007539	321.62	321.56	321.85
155	9 JAN 74	6	2.257	2.277	0.007566	322.43	322.38	322.70
156	9 JAN 74	9	2.257	2.277	0.007591	321.96	321.90	322.21
157	10 JAN 74	20	2.239	2.259	0.007643	321.95	321.89	322.20
158	12 JAN 74	13	2.265	2.285	0.007826	322.13	322.07	322.40
159	13 JAN 74	7	2.262	2.282	0.007863	322.07	322.01	322.34
160	13 JAN 74	9	2.262	2.282	0.007900	322.30	322.25	322.58
161	17 JAN 74	6	2.252	2.272	0.008178	321.82	321.76	322.08
163	17 JAN 74	12	2.249	2.269	0.008210	322.04	321.98	322.32
164	19 JAN 74	7	2.259	2.279	0.008400	321.88	321.82	322.16
165	20 JAN 74	6	2.251	2.271	0.008425	322.32	322.27	322.62
166	23 JAN 74	7	2.263	2.283	0.008822	321.68	321.64	322.14
167	24 JAN 74	6	2.270	2.285	0.008822	322.12	322.09	322.60
168	24 JAN 74	14	2.270	2.285	0.008822	321.80	321.76	322.26
169	25 JAN 74	15	2.267	2.282	0.008822	321.88	321.84	322.35
170	25 JAN 74	6	2.267	2.282	0.008822	321.89	321.85	322.36
171	27 JAN 74	6	2.259	2.274	0.008822	322.04	322.01	322.51
171	29 JAN 74	8	2.258	2.273	0.008822	321.82	321.78	322.29
172	31 JAN 74	8	2.249	2.264	0.008822	321.86	321.82	322.33
173	5 FEB 74	6	2.280	2.295	0.008822	322.92	322.89	323.42
174	10 FEB 74	7	2.466	2.482	0.008822	322.05	322.02	322.52
175	11 FEB 74	8	2.441	2.457	0.008822	321.70	321.66	322.16
176	11 FEB 74	8	2.441	2.457	0.008822	321.30	321.26	321.74

Table 13. Mean CO Indices at Baring Head for Steady Intervals, Con't. (6)

Interval No.	Assigned Date	No. of Hours	Recorder Scale Factor		K	L		I
			Preliminary	Final		Preliminary	Final	
177	16 FEB 74	9	2.593	2.610	0.008822	321.17	321.13	321.60
178	16 FEB 74	21	2.592	2.609	0.008822	321.34	321.30	321.78
179	17 FEB 74	18	2.593	2.610	0.008822	321.29	321.25	321.73
180	18 FEB 74	11	2.622	2.639	0.008822	321.32	321.28	321.76
181	21 FEB 74	10	2.716	2.731	0.008935	321.54	321.50	321.93
182	21 FEB 74	11	2.716	2.731	0.008946	321.39	321.35	321.78
183	24 FEB 74	6	2.761	2.776	0.009010	322.72	322.68	323.15
184	25 FEB 74	6	2.769	2.785	0.009044	321.77	321.73	322.18
185	26 FEB 74	7	2.756	2.771	0.009076	321.21	321.17	321.60
186	1 MAR 74	7	2.873	2.889	0.009133	321.65	321.61	322.06
187	1 MAR 74	6	2.873	2.889	0.009146	321.11	321.07	321.50
188	1 MAR 74	6	2.873	2.889	0.009152	321.00	320.96	321.38
189	3 MAR 74	6	3.294	3.312	0.009190	321.29	321.25	321.69
190	3 MAR 74	7	3.294	3.312	0.009198	321.37	321.33	321.77
191	7 MAR 74	6	3.464	3.483	0.009290	321.18	321.14	321.58
192	16 MAR 74	11	1.587	1.600	-0.000659	322.16	322.10	322.09
193	16 MAR 74	15	1.584	1.597	-0.000659	322.00	321.94	321.93
194	17 MAR 74	11	1.572	1.585	-0.000603	321.94	321.88	321.87
195	17 MAR 74	11	1.572	1.585	-0.000603	321.96	321.90	321.89
196	18 MAR 74	9	1.563	1.576	-0.000546	321.92	321.86	321.85
197	21 MAR 74	8	1.607	1.620	-0.000377	321.99	321.93	321.93
198	22 MAR 74	10	1.607	1.620	-0.000321	321.65	321.59	321.58
199	23 MAR 74	8	1.600	1.613	-0.000264	321.73	321.67	321.67
200	24 MAR 74	7	1.587	1.600	-0.000208	321.35	321.28	321.29
201	26 MAR 74	8	1.609	1.614	-0.000095	321.70	321.63	321.63
202	27 MAR 74	13	1.611	1.616	-0.000039	321.63	321.56	321.56
203	6 APR 74	13	1.669	1.674	0.000528	321.81	321.74	321.75
204	7 APR 74	7	1.665	1.670	0.000580	321.84	321.77	321.78
205	10 APR 74	9	1.650	1.655	0.000749	321.58	321.51	321.52
206	11 APR 74	17	1.650	1.655	0.000806	321.76	321.69	321.70
207	21 APR 74	27	1.673	1.678	0.001370	321.71	321.64	321.65
208	22 APR 74	12	1.671	1.676	0.001426	321.67	321.66	321.67
209	23 APR 74	24	1.666	1.671	0.001482	321.61	321.60	321.61
210	24 APR 74	24	1.671	1.676	0.001539	321.64	321.63	321.64
211	25 APR 74	19	1.698	1.703	0.001595	321.70	321.69	321.70
212	26 APR 74	14	1.711	1.716	0.001652	321.97	321.96	321.97

Table 13. Mean CO₂ Indices at Baring Head for Steady Intervals, Con't. (7)

Interval No.	Assigned Date	No. of Hours	Recorder Scale Factor		K	L		I
			Preliminary	Final		Preliminary	Final	
213	27 APR 74	24	1.702	1.707	0.001708	321.82	321.81	321.82
214	28 APR 74	24	1.697	1.702	0.001764	321.68	321.67	321.68
215	29 APR 74	20	1.700	1.705	0.001821	321.76	321.75	321.76
216	3 MAY 74	7	1.761	1.766	0.002046	321.90	321.89	321.91
217	4 MAY 74	6	1.753	1.758	0.002103	322.05	322.04	322.06
218	8 MAY 74	10	1.769	1.774	0.002328	322.15	322.14	322.16
219	8 MAY 74	6	1.769	1.774	0.002328	322.22	322.21	322.23
220	9 MAY 74	6	1.757	1.762	0.002328	322.08	322.07	322.09
221	11 MAY 74	6	1.684	1.689	0.002497	321.89	321.88	321.90
222	13 MAY 74	8	1.712	1.717	0.002610	321.96	321.95	321.97
223	29 MAY 74	9	1.816	1.821	0.003512	322.21	322.20	322.24
224	30 MAY 74	11	1.791	1.796	0.003568	322.37	322.36	322.40
225	2 JUN 74	10	1.827	1.833	0.007519	322.28	322.27	322.39
226	3 JUN 74	21	1.820	1.826	0.007755	322.12	322.10	322.22
227	4 JUN 74	6	1.827	1.833	0.007990	322.17	322.15	322.28
228	4 JUN 74	10	1.830	1.836	0.007990	321.98	321.96	322.08
229	12 JUN 74	8	1.976	1.982	0.009875	321.92	321.90	322.04
230	12 JUN 74	14	1.976	1.982	0.009875	322.10	322.08	322.23
231	13 JUN 74	27	1.987	1.993	0.010110	322.10	322.08	322.24
232	15 JUN 74	23	2.082	2.088	0.010817	322.09	322.07	322.24
233	17 JUN 74	20	1.903	1.909	0.011052	322.03	322.01	322.18
234	18 JUN 74	16	1.774	1.779	0.006593	322.29	322.28	322.38
235	18 JUN 74	8	1.774	1.779	0.006593	322.01	321.99	322.09
236	19 JUN 74	16	1.791	1.796	0.006713	322.28	322.27	322.37
237	19 JUN 74	8	1.791	1.796	0.006713	322.00	321.98	322.08
238	20 JUN 74	19	1.799	1.804	0.006833	322.12	322.10	322.21
239	3 JUL 74	20	1.897	1.903	0.008268	322.50	322.49	322.63
240	4 JUL 74	23	1.890	1.896	0.008507	322.51	322.50	322.65
241	5 JUL 74	22	1.875	1.881	0.008627	322.34	322.33	322.47
242	6 JUL 74	23	1.882	1.888	0.008747	322.35	322.34	322.48
243	7 JUL 74	23	1.909	1.915	0.008866	322.38	322.37	322.52
244	8 JUL 74	16	1.936	1.942	0.008986	322.37	322.36	322.51
245	10 JUL 74	17	1.971	1.977	0.009225	322.87	322.86	323.02
246	11 JUL 74	6	1.956	1.962	0.009345	322.67	322.70	322.81
247	11 JUL 74	7	1.967	1.973	0.009345	322.34	322.37	322.45

Table 13. Mean CO₂ Indices at Baring Head for Steady Intervals, Con't. (8)

Interval No.	Assigned Date	No. of Hours	Recorder Scale Factor		K	I	
			Preliminary	Final		Preliminary	Final
248	12 JUL 74	8	1.978	1.984	0.009464	322.64	322.67
249	26 JUL 74	8	1.793	1.798	0.006188	323.23	323.27
250	1 AUG 74	8	2.047	2.053	0.005429	322.94	322.97
251	7 AUG 74	24	2.030	2.036	0.004671	322.69	322.72
252	8 AUG 74	12	1.993	1.999	0.004544	322.61	322.64
253	8 AUG 74	6	1.993	1.999	0.004544	322.18	322.21
254	9 AUG 74	15	1.995	2.001	0.004418	323.06	323.09
255	10 AUG 74	11	2.017	2.023	0.004291	322.61	322.64
256	11 AUG 74	7	2.041	2.047	0.004165	322.75	322.78
257	11 AUG 74	9	2.041	2.047	0.004165	322.52	322.55
258	12 AUG 74	7	2.073	2.079	0.004039	322.58	322.61
259	14 AUG 74	19	2.133	2.139	0.003786	322.55	322.58
260	14 AUG 74	12	2.102	2.108	0.003786	322.59	322.62
261	18 AUG 74	11	1.930	1.936	0.003280	322.88	322.90
262	19 AUG 74	7	1.913	1.919	0.003154	322.92	322.94
263	19 AUG 74	6	1.913	1.919	0.003154	323.10	323.12
264	19 AUG 74	7	1.913	1.919	0.003154	322.98	323.00
265	19 AUG 74	6	1.910	1.916	0.003154	322.56	322.58
266	20 AUG 74	7	1.905	1.911	0.003358	322.33	322.35
267	23 AUG 74	6	1.904	1.913	0.000558	322.81	322.84
268	23 AUG 74	9	1.908	1.917	0.000556	323.29	323.32
269	23 AUG 74	8	1.908	1.917	0.000552	322.72	322.75
270	24 AUG 74	10	1.918	1.927	0.000548	323.30	323.33
271	24 AUG 74	6	1.918	1.927	0.000544	322.72	322.75
272	25 AUG 74	18	1.931	1.940	0.000540	322.90	322.93
273	25 AUG 74	8	1.934	1.943	0.000536	322.74	322.77
274	26 AUG 74	8	1.942	1.951	0.000530	323.08	323.11
275	27 AUG 74	9	1.935	1.944	0.000527	322.79	322.79
276	27 AUG 74	8	1.931	1.940	0.000521	322.84	322.87
277	28 AUG 74	6	1.912	1.921	0.000519	322.80	322.83
278	28 AUG 74	8	1.912	1.921	0.000516	323.19	323.22
279	30 AUG 74	11	1.910	1.919	0.000504	322.73	322.76
280	3 SEP 74	6	1.955	1.964	0.000473	323.13	323.16
281	3 SEP 74	8	1.955	1.964	0.000467	322.94	322.97
282	4 SEP 74	7	1.966	1.975	0.000461	322.88	322.91
283	6 SEP 74	10	1.986	1.995	0.000450	322.76	322.79

Table 13. Mean CO₂ Indices at Baring Head for Steady Intervals, Con't. (9)

Interval No.	Assigned Date	No. of Hours	Recorder Scale Factor		K	L		I
			Preliminary	Final		Preliminary	Final	
284	9 SEP 74	6	2.024	2.033	0.000421	322.99	323.02	323.02
285	10 SEP 74	12	2.020	2.029	0.000417	323.82	323.85	323.86
286	11 SEP 74	19	2.016	2.025	0.000407	323.02	323.05	323.05
287	12 SEP 74	10	2.032	2.041	0.000403	323.01	323.04	323.04
288	12 SEP 74	9	2.032	2.041	0.000399	323.20	323.23	323.23
289	13 SEP 74	11	2.069	2.079	0.000390	323.01	323.04	323.04
290	14 SEP 74	10	2.102	2.112	0.000387	322.99	323.02	323.02
291	14 SEP 74	6	2.102	2.112	0.000383	323.12	323.15	323.15
292	19 SEP 74	7	2.186	2.196	0.000344	322.58	322.60	322.61
293	20 SEP 74	14	2.212	2.222	0.000340	322.73	322.76	322.76
294	20 SEP 74	8	2.212	2.222	0.000337	322.45	322.47	322.48
295	27 SEP 74	9	2.660	2.672	-0.000059	322.06	322.11	322.11
296	28 SEP 74	11	2.681	2.693	-0.000099	322.80	322.86	322.86
297	28 SEP 74	6	2.681	2.693	-0.000130	323.00	323.06	323.05
298	28 SEP 74	6	2.681	2.693	-0.000152	322.82	322.88	322.88
299	29 SEP 74	12	2.667	2.679	-0.000185	322.86	322.92	322.91
300	29 SEP 74	6	2.667	2.679	-0.000217	323.11	323.17	323.16
301	29 SEP 74	6	2.667	2.679	-0.000239	322.90	322.96	322.95
302	30 SEP 74	13	2.646	2.658	-0.000273	322.82	322.88	322.87
303	30 SEP 74	6	2.613	2.625	-0.000308	322.86	322.92	322.91
304	9 OCT 74	12	2.748	2.761	-0.001067	322.68	322.74	322.71
305	10 OCT 74	7	2.760	2.773	-0.001138	323.06	323.12	323.08
306	13 OCT 74	6	2.801	2.814	-0.001397	322.99	323.05	323.01
307	18 OCT 74	11	2.831	2.844	-0.001885	322.33	322.38	322.34
308	22 OCT 74	7	2.893	2.895	-0.002178	323.95	323.99	323.93
309	22 OCT 74	8	2.897	2.899	-0.002207	322.70	322.74	322.69
310	23 OCT 74	6	2.927	2.929	-0.002276	322.84	322.88	322.82
311	25 OCT 74	6	2.918	2.920	-0.001582	322.84	322.88	322.84
312	28 OCT 74	10	2.918	2.920	-0.000475	323.18	323.22	323.21
313	29 OCT 74	6	2.901	2.903	-0.000096	322.60	322.64	322.64
314	30 OCT 74	6	2.901	2.903	-0.000008	322.25	322.29	322.31
315	30 OCT 74	7	2.901	2.903	0.000187	323.07	323.11	323.12
316	30 OCT 74	6	2.901	2.903	0.000282	322.96	323.00	323.01
317	31 OCT 74	18	2.901	2.903	0.000457	323.14	323.18	323.20
318	31 OCT 74	8	2.901	2.903	0.000646	322.87	322.91	322.93
319	1 NOV 74	7	2.918	2.920	0.000770	322.76	322.80	322.82

Table 13. Mean CO₂ Indices at Baring Head for Steady Intervals, Cont't. (10)

Interval No.	Assigned Date	No. of Hours	Recorder Scale Factor		K	L		I
			Preliminary	Final		Preliminary	Final	
320	1 NOV 74	7	2.918	2.920	0.000872	323.30	323.34	323.37
321	2 NOV 74	6	2.935	2.937	0.001258	323.22	323.26	323.30
322	3 NOV 74	20	2.945	2.947	0.001447	322.90	322.94	322.98
323	3 NOV 74	7	2.948	2.950	0.001673	322.92	322.96	323.01
324	4 NOV 74	6	2.964	2.966	0.001768	322.67	322.71	322.76
325	4 NOV 74	6	2.966	2.968	0.002059	322.76	322.74	322.79
326	16 NOV 74	9	3.011	3.013	0.001821	323.06	323.04	323.08
327	21 NOV 74	7	2.974	2.976	0.001656	322.88	322.86	322.90
328	21 NOV 74	6	2.974	2.976	0.001637	323.24	323.22	323.26
329	22 NOV 74	6	2.942	2.944	0.001627	323.00	322.98	323.02
330	22 NOV 74	7	2.935	2.937	0.001595	322.86	322.84	322.88
331	26 NOV 74	7	2.948	2.950	0.001455	323.34	323.32	323.36
332	10 DEC 74	6	2.965	2.967	0.000933	323.05	323.03	323.05
333	10 DEC 74	6	2.977	2.979	0.000924	322.91	322.89	322.91
334	14 DEC 74	7	2.987	2.989	0.000643	323.20	323.27	323.29
335	15 DEC 74	7	2.996	2.998	0.000494	323.04	323.11	323.13
336	16 DEC 74	7	3.042	3.044	0.000454	322.81	322.88	322.90
337	24 DEC 74	12	3.026	3.028	-0.000628	322.90	322.97	322.95
338	1 JAN 75	6	3.023	3.025	-0.001760	323.26	323.33	323.28
339	10 JAN 75	12	2.992	2.994	-0.002970	323.18	323.25	323.16
340	11 JAN 75	12	2.998	3.000	-0.003090	323.05	323.12	323.03
341	12 JAN 75	7	3.016	3.018	-0.003224	323.28	323.35	323.25
342	17 JAN 75	7	2.840	2.842	-0.004004	323.01	323.08	322.96
343	19 JAN 75	11	2.776	2.778	-0.004199	322.83	322.90	322.78
344	21 JAN 75	13	2.749	2.751	-0.004462	322.82	322.89	322.76
345	29 JAN 75	9	2.812	2.814	-0.004940	323.19	323.15	323.01
346	30 JAN 75	13	2.803	2.805	-0.004940	322.98	322.94	322.80
347	31 JAN 75	7	2.796	2.798	-0.004940	322.56	322.52	322.39
348	1 FEB 75	10	2.791	2.793	-0.004940	322.88	322.84	322.71
349	5 FEB 75	7	1.869	1.870	0.000845	322.53	322.49	322.51
350	7 FEB 75	9	1.916	1.918	0.000845	321.98	321.94	321.96
351	17 FEB 75	24	1.854	1.855	0.000845	322.42	322.38	322.40
352	18 FEB 75	7	1.825	1.826	0.000845	322.48	322.44	322.46
353	25 FEB 75	7	2.033	2.035	0.000845	322.42	322.38	322.46
354	25 FEB 75	6	2.033	2.035	0.000845	322.61	322.57	322.60

Table 13. Mean CO₂ Indices at Baring Head for Steady Intervals, Cont. (11)

Interval No.	Assigned Date	No. of Hours	Recorder Scale Factor		K	I	
			Preliminary	Final		Preliminary	Final
355	25 FEB 75	9	2.033	2.035	0.000845	322.49	322.45
356	26 FEB 75	6	2.010	2.012	0.000845	322.49	322.45
357	26 FEB 75	6	2.010	2.012	0.000845	322.57	322.56
358	26 FEB 75	9	2.032	2.034	0.000845	322.82	322.81
359	27 FEB 75	9	2.060	2.062	0.000845	323.24	323.20
360	28 FEB 75	13	2.059	2.061	0.000845	322.86	322.82
361	1 MAR 75	9	2.010	2.012	0.000845	322.53	322.49
362	6 MAR 75	19	1.995	1.997	0.000724	322.72	322.68
363	9 MAR 75	10	2.001	2.003	0.000386	322.54	322.53
364	11 MAR 75	9	2.015	2.017	0.000170	322.72	322.71
365	12 MAR 75	13	1.995	1.997	0.000102	322.36	322.35
366	4 APR 75	6	1.915	1.909	-0.002461	322.45	322.44
367	14 APR 75	8	1.950	1.950	-0.002642	322.86	322.84
368	26 APR 75	7	2.000	2.000	-0.002274	322.54	322.54
369	26 APR 75	6	1.988	1.988	-0.002261	323.00	322.98
370	30 APR 75	9	1.910	1.910	-0.002121	323.37	323.35
371	1 MAY 75	7	1.904	1.904	-0.002110	322.62	322.59
372	7 MAY 75	6	1.925	1.925	-0.001906	322.82	322.78
373	7 MAY 75	7	1.941	1.941	-0.001963	322.82	322.80
374	26 MAY 75	6	1.899	1.856	0.000075	322.96	322.92
375	27 MAY 75	9	1.862	1.820	0.000398	322.81	323.01
376	27 MAY 75	6	1.862	1.820	0.000511	322.82	323.02
377	29 MAY 75	11	1.787	1.746	0.001059	322.70	322.90
378	29 MAY 75	7	1.796	1.745	0.001239	322.92	322.90
379	31 MAY 75	11	1.792	1.751	0.001989	322.34	323.11
380	1 JUN 75	16	1.799	1.758	0.002192	322.88	323.52
381	1 JUN 75	7	1.799	1.758	0.002365	322.99	323.07
382	8 JUN 75	7	1.643	1.643	0.003057	322.99	323.18
383	8 JUN 75	11	1.636	1.636	0.003066	322.89	323.08
384	10 JUN 75	8	1.565	1.565	0.003119	323.13	323.12
385	11 JUN 75	18	1.547	1.547	0.003131	323.26	323.12
386	14 JUN 75	8	1.586	1.586	0.003200	323.25	323.12
387	15 JUN 75	23	1.580	1.580	0.003223	322.97	323.17
388	16 JUN 75	6	1.570	1.570	0.003236	323.03	323.31
						322.96	323.01
						323.03	323.08
						323.74	323.80
						323.40	323.45
						323.50	323.55

Table 13. Mean CO₂ Indices at Baring Head for Steady Intervals, Con't. (12)

Interval No.	Assigned Date	No. of Hours	Recorder Scale Factor		K	L		I
			Preliminary	Final		Preliminary	Final	
389	21 JUN 75	7	1.556	1.556	0.003358	323.16	323.15	323.21
390	22 JUN 75	8	1.535	1.535	0.003362	323.17	323.16	323.22
391	23 JUN 75	21	1.521	1.521	0.003395	323.01	323.00	323.06
392	25 JUN 75	6	1.515	1.515	0.003433	323.33	323.32	323.38
393	25 JUN 75	8	1.516	1.516	0.003441	323.55	323.54	323.61
394	25 JUN 75	6	1.516	1.516	0.003447	323.38	323.37	323.44
395	26 JUN 75	7	1.482	1.479	0.003353	323.00	323.01	323.21
396	27 JUN 75	14	1.483	1.480	0.003142	322.88	322.90	323.08
397	27 JUN 75	6	1.483	1.480	0.002942	322.78	322.80	322.97
398	28 JUN 75	8	1.471	1.468	0.002460	322.97	322.99	323.18
399	29 JUN 75	9	1.467	1.464	0.002049	323.54	323.56	323.68
400	2 JUL 75	8	1.538	1.535	0.000433	323.42	323.44	323.49
401	4 JUL 75	13	1.470	1.471	0.000179	323.27	323.30	323.33
402	4 JUL 75	6	1.464	1.465	0.000195	323.16	323.10	323.21
403	4 JUL 75	6	1.464	1.465	0.000206	322.88	322.91	322.94
404	5 JUL 75	17	1.440	1.441	0.000226	323.18	323.22	323.25
405	6 JUL 75	9	1.435	1.436	0.002277	323.22	323.26	323.29
406	7 JUL 75	12	1.451	1.452	0.000337	323.09	323.12	323.17
407	17 JUL 75	7	1.477	1.478	0.000754	323.44	323.48	323.57
408	18 JUL 75	9	1.403	1.404	0.000768	323.36	323.40	323.49
409	18 JUL 75	7	1.403	1.404	0.000782	323.65	323.69	323.79
410	18 JUL 75	6	1.403	1.404	0.000794	323.20	323.24	323.29
411	21 JUL 75	12	1.345	1.346	0.000918	323.11	323.15	323.20
412	22 JUL 75	10	1.345	1.346	0.000937	323.31	323.35	323.40
413	22 JUL 75	6	1.316	1.317	0.000951	323.14	323.18	323.24
414	22 JUL 75	6	1.316	1.317	0.000962	322.82	322.84	322.89
415	23 JUL 75	11	1.316	1.317	0.000977	323.08	323.11	323.27
416	23 JUL 75	6	1.316	1.317	0.000991	323.27	323.30	323.41
417	23 JUL 75	9	1.316	1.317	0.001005	322.97	323.00	323.13
418	24 JUL 75	9	1.306	1.307	0.001020	323.13	323.17	323.20
419	30 JUL 75	12	1.424	1.425	0.001289	323.77	323.80	323.94
420	3 AUG 75	7	1.372	1.373	0.001435	323.12	323.16	323.32
421	3 AUG 75	6	1.365	1.366	0.001448	323.52	323.56	323.72
422	7 AUG 75	8	1.353	1.357	0.001656	323.71	323.70	323.92
423	8 AUG 75	6	1.353	1.357	0.001670	323.72	323.71	323.93
424	8 AUG 75	7	1.353	1.357	0.001703	323.62	323.60	323.83

Table 13. Mean CO₂ Indices at Baring Head for Steady Intervals, Cont. (13)

Interval No.	Assigned Date	No. of Hours	Recorder Scale Factor		K	L		M	
			Preliminary	Final		Preliminary	Final	Preliminary	Final
425	20 AUG 75	8	1.310	1.314	0.002276	323.66	323.65	323.95	323.95
426	21 AUG 75	6	1.297	1.301	0.002334	324.17	324.16	324.46	324.46
427	22 AUG 75	12	1.291	1.295	0.002352	324.32	324.31	324.64	324.64
428	22 AUG 75	6	1.291	1.295	0.002372	323.60	323.58	323.91	323.91
429	23 AUG 75	6	1.294	1.298	0.002384	323.99	323.98	324.31	324.31
430	23 AUG 75	12	1.294	1.298	0.002404	324.55	324.54	324.88	324.88
431	4 SEP 75	22	1.309	1.303	0.003508	323.98	324.09	324.28	324.28
432	5 SEP 75	18	1.314	1.308	0.003780	324.10	324.21	324.42	324.42
433	6 SEP 75	13	1.295	1.289	0.003982	324.37	324.47	324.70	324.70
434	12 SEP 75	7	1.705	1.697	0.005864	323.83	323.94	324.25	324.25
435	12 SEP 75	6	1.705	1.697	0.005949	324.21	324.31	324.63	324.63
439	10 OCT 75	28	1.838	1.872	0.010303	324.57	324.30	324.62	324.62
440	11 OCT 75	7	1.834	1.868	0.010303	324.58	324.32	324.61	324.61
441	19 OCT 75	8	1.810	1.813	0.011477	324.17	324.16	325.15	325.15
442	20 OCT 75	12	1.702	1.704	0.011545	323.90	323.90	324.85	324.85
443	27 OCT 75	12	1.607	1.605	0.012159	323.36	323.40	324.32	324.32
444	28 OCT 75	27	1.602	1.600	0.012218	323.54	323.53	324.51	324.51
445	3 NOV 75	14	1.603	1.601	0.012615	323.47	323.50	324.55	324.55
446	3 NOV 75	7	1.604	1.602	0.012647	323.29	323.32	324.34	324.34
447	5 NOV 75	27	1.611	1.609	0.012576	323.56	323.60	324.63	324.63
448	8 NOV 75	11	1.602	1.600	0.011950	323.73	323.70	324.79	324.79
449	14 NOV 75	7	1.576	1.575	0.011113	323.66	323.70	324.63	324.63
450	14 NOV 75	7	1.576	1.575	0.011076	324.06	324.10	325.08	325.08
451	17 NOV 75	11	1.601	1.599	0.010677	323.57	323.60	324.48	324.48
452	20 NOV 75	6	1.599	1.598	0.010516	323.42	323.45	324.80	324.80
453	20 NOV 75	7	1.587	1.586	0.010573	323.91	323.94	324.86	324.86
454	21 NOV 75	6	1.554	1.553	0.010705	323.53	323.56	324.44	324.44
455	21 NOV 75	7	1.554	1.553	0.010738	323.38	323.41	324.27	324.27
456	22 NOV 75	8	1.550	1.549	0.010854	323.96	324.00	324.94	324.94
457	14 DEC 75	6	1.567	1.577	0.012504	323.88	323.81	325.29	325.29
458	14 DEC 75	6	1.567	1.577	0.012497	324.03	323.96	325.45	325.45
459	15 DEC 75	13	1.537	1.547	0.012488	322.87	322.79	324.14	324.14
460	26 DEC 75	11	1.589	1.599	0.012353	322.87	322.79	324.13	324.13
461	29 DEC 75	27	1.582	1.592	0.012353	322.93	322.85	324.20	324.20

