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Optical Extinction Predictions from Measurements Aboard a British Weather Ship

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Optical Sciences Division

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The *Admiral Fitzroy* is one of two weather ships that tend station *Lima*, 57°N 20°W, for the British Ocean Weather Service. We were aboard *Fitzroy* on station over a twenty-day period in the month of July. Using two Particle Measuring Systems (PMS) particle spectrometers, we measured marine aerosols with radii in the size range from 0.1 to 15 μm. The probes were 3 m from the ocean surface on the windward quarter of the drifting ship. The aerosol size distributions gave calculated extinction coefficients at ten wavelengths between 0.4 and 10.0 μm. Statistical plots show the most frequent aerosol extinction to be near 0.02 km^{-1} for 0.55 μm and 0.005 km^{-1} for 10.0 μm. A plot of calculated extinction versus wavelength for several conditions shows that the ratio for extinctions, $k_{0.55}/k_{10.0}$, cannot be considered to be constant.

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The Admiral FitzRoy is one of two weather ships [illegible] Weather Service. We were aboard FitzRoy [illegible] Particle Measuring Systems (PMS) [illegible] from 0.1 to 15 μm. [illegible] Statistical plots [illegible] 10.0 μm. [illegible]

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CONTENTS

OPTICAL EXTINCTION PREDICTIONS FROM MEASUREMENTS ABOARD A BRITISH WEATHER SHIP

INTRODUCTION

The *Admiral Fitzroy* is one of two weather ships that tend station *Lima*, 57°N 20°W, for the British Ocean Weather Service. In late June 1978 we boarded the *Fitzroy* in Greenock, Scotland, to spend one 28-day station-keeping session with the Weather Service crew. We had with us equipment for measuring atmospheric aerosols.

As part of a joint project which included personnel from NRL and two laboratories from the United Kingdom, two of us from the former Optical Radiation Branch were to measure the marine aerosol in an open-ocean environment. While we were at sea the British were to measure aerosols on the seaward shore of South Uist, one of the Hebrides, off the northwest coast of Scotland.

Prior to the departure of the *Fitzroy*, R. Allan and S. Craig of the Royal Aircraft Establishment (RAE) and W. Shand, N. Tolliday, and A. Harland of the Royal Signal and Radar Establishment (RSRE) joined us at the dock with particle-counting equipment similar to ours. The purpose of the meeting was to make side-by-side comparison measurements of the two sets of aerosol spectrometers prior to the measurement period. We repeated the comparison at the end of the cruise.

The underlying reason for the program is an interest in the marine aerosol in the North Atlantic and that aerosol's effect on the propagation of electromagnetic waves of visible and infrared wavelengths. The immediate interest for the joint project was to determine the suitability of the weather ship as a platform for making the desired measurements and to compare aerosol measurements made in an open-sea environment with those made at a land-based seaside site. This report will only discuss the first of these two issues. The comparison of the land and sea measurements will be the subject of a later UK/US report.

EQUIPMENT AND PROCEDURES

The most obvious piece of equipment was, of course, the ship. The *Admiral Fitzroy* is a 70-m (228-ft) British corvette built in 1943 for North Atlantic duty during World War II. Of the several corvettes once in the British Ocean Weather Service, only two remain. The craft are totally seaworthy, as their record shows, but because of their short length and narrow beam they roll a great deal, making them uncomfortable platforms. Also, in moderate to heavy seas they take a lot of water across the decks, making open-air experimental work treacherous or impossible.

One appealing feature of the ships is that they steam to their station and then drift without power in a fixed attitude to the wind, thus assuring the experimenter access to a clean air sample for an extended period of time. Also, with equipment of the type we used several mounting locations are available, which allows measurements to be made at three or four heights. However, both of these features have limitations, associated with bad weather, which essentially make the ship acceptable only as a fair-weather platform for our type of measurement. A further discussion of this will occur in a later section.

Manuscript submitted May 14, 1981.

Two Particle Measuring Systems, Inc. (PMS) particle spectrometer probes measured the aerosol aboard the *Fitzroy*. One, the Active Scattering Aerosol Spectrometer Probe (ASASP), measures particles with radii in the 0.1- to 2.0-μm range. The second is a high-volume version of the classical scattering probe (CSASP), which covers a range of 1.0 to 15 μm. A third probe, another CSASP which we had intended to use at various locations on the ship, malfunctioned early on the trip and provided no data.

We placed these two instruments windward while the ship drifted on station. Since the drifting attitude has the wind coming from roughly 110° off the port bow, we needed to be as far aft as possible to avoid any contamination emanating from the ship. To avoid interfering with required weather-ship operations, the only available mounting for the instruments was 3 m from the ocean surface.

Figure 1 shows the *Admiral Fitzroy* at sea. The large superstructure at the stern is a balloon shed. The probe location was just below the shed. Later we found that another location at 6 m would have been acceptable to the Weather Service personnel at their balloon-shed level. Access to the probes would have been restricted, however, during balloon launchings.

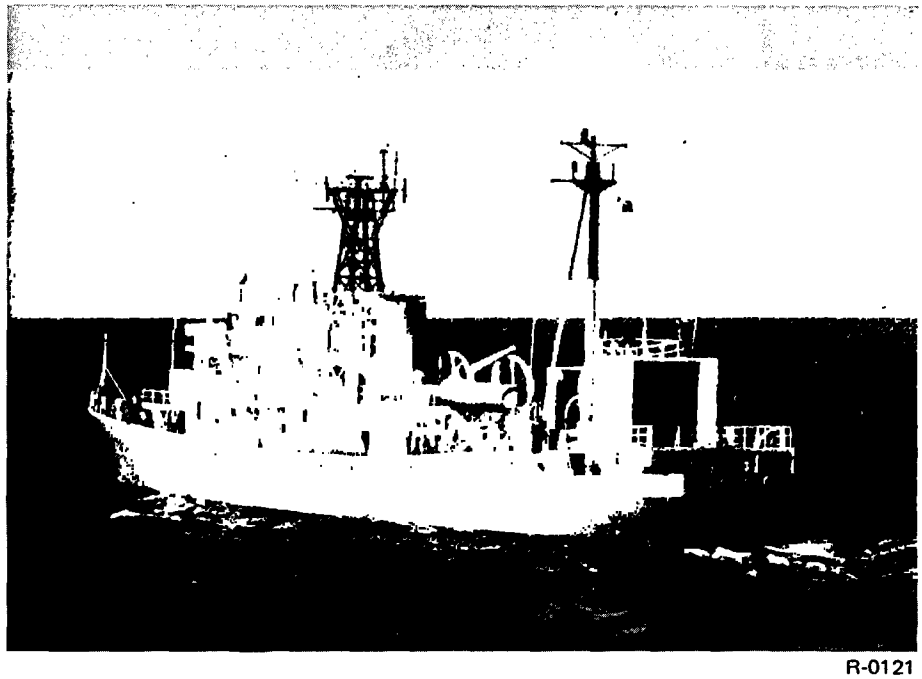

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Fig. 1 — *Admiral Fitzroy* at sea

The PMS probes normally function on land as part of the mobile laboratory shown schematically in Fig. 2, which indicates two primary sets of sensors. The meteorological set on the upper left includes devices for monitoring air temperature, dew point, wind speed, and wind direction. On the upper right are the two particle spectrometers. The electronics that handle the data from the sensors are in the mobile laboratory and are illustrated in three columns in Fig. 2. The center column shows the PMS electronics, which include the data buffer and a digital magnetic tape where the information from all sensors is stored every second.

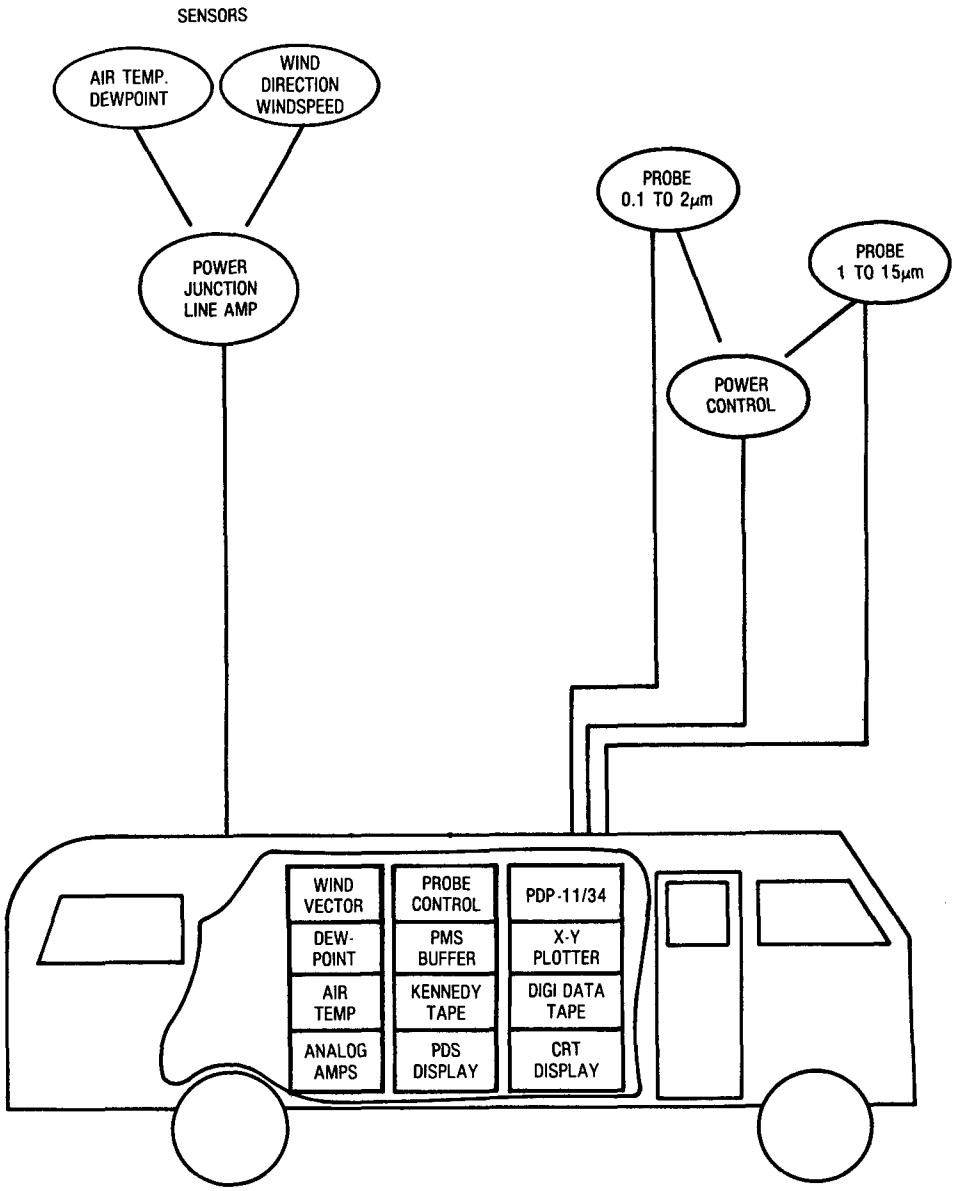

Fig. 2 — Aerosol mobile laboratory

Simultaneously, the system feeds the information into the PDP-11/34 data acquisition system for real-time processing. The user may specify averaging times. Data reduction includes the generation of aerosol size distributions from the probe data and the calculation, from these distributions, of extinction coefficients for ten arbitrary wavelengths by the Mie scattering theory. A disk stores resultant extinction coefficients, size distributions, and averaged meteorological parameters at the end of each averaging period. These data later produce time plots or cross-correlation plots.

Figure 3 gives an example of real-time output on the computer terminal from the computer program used on the *Fitzroy* cruise. The top line shows the year, day, time of day, and length of the averaging time. The next line of numbers gives the air temperature, dew point, wind speed, wind

direction, laser reference level for the ASASP, wind wave-height, visibility, ship heading, partial pressure of water vapor (calculated from the dew point) and the relative humidity (from the dew point and air temperature). We obtained the wind wave-height, visibility, and ship heading from the hourly recordings of the Weather Service personnel and entered inputs using three potentiometers into the computer's analog interface. The other values came from our own instruments.

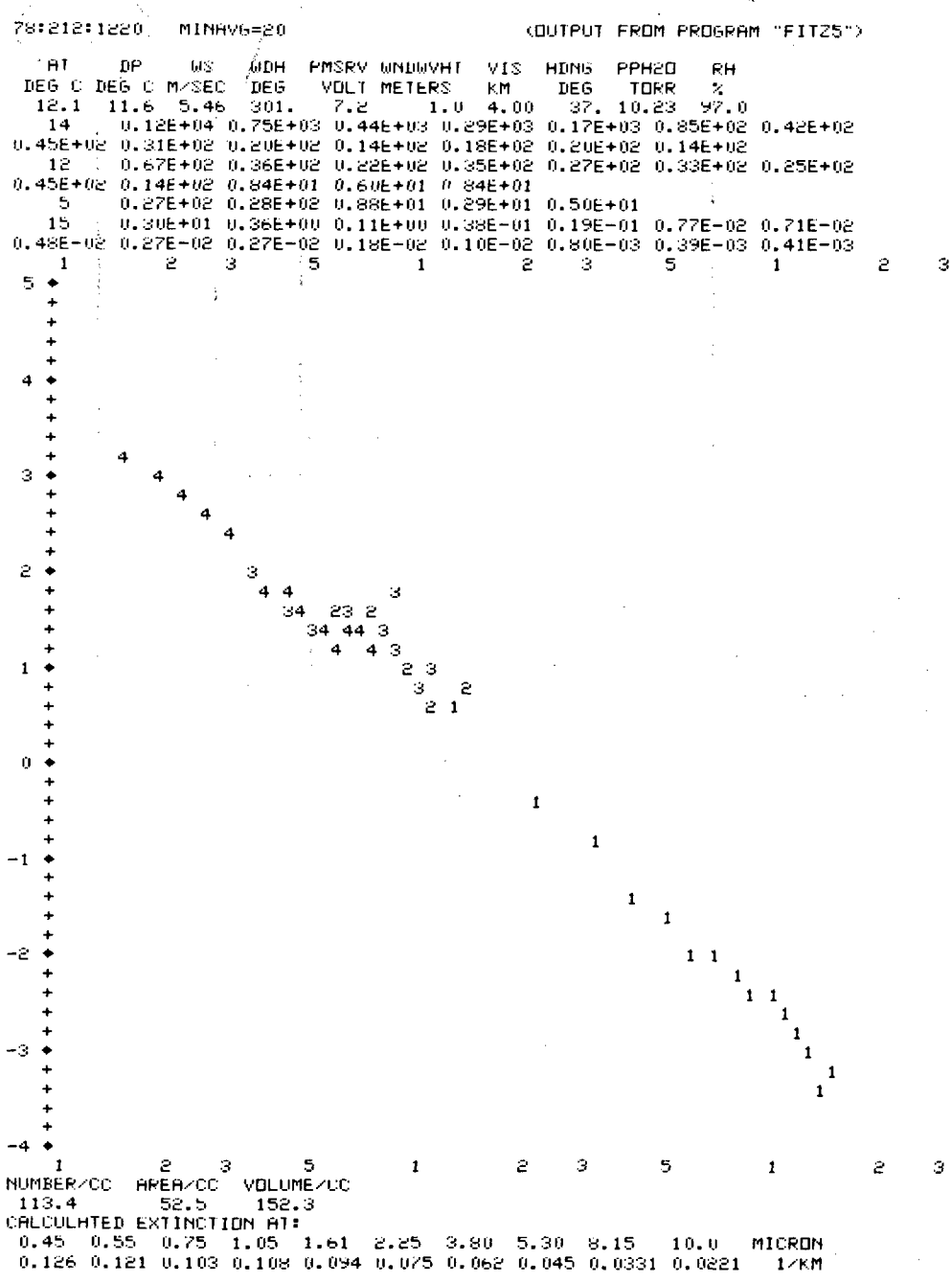

Fig. 3 — Sample output of real-time computer program

The next series of numbers gives the values of the points plotted on the particle size distribution below the numbers. The plot is $dN/dR(\mathrm{cm}^{-3}\mu\mathrm{m}^{-1})$, where N is the particle concentration and R is the particle radius, vs R (μm) in a log-log form. The vertical scale ranges from 10^{-4} to 10^{+5} as shown, and the horizontal scale covers a range of 0.1 to 30. On the curve itself, the numbers 4, 3, and 2 indicate the three ranges of the active scattering probe and a 1 indicates results from the high-volume scattering probe.

The on-line program uses the distribution to calculate, in real time, the particle number density (cm^{-3}), the cross-sectional area density ($\mu\mathrm{m}^2\ \mathrm{cm}^{-3}$) and the volume density ($\mu\mathrm{m}^3\ \mathrm{cm}^{-3}$). The results of those calculations appear directly beneath the plot. Finally, from the distribution, the extinction coefficients (per kilometer) at ten wavelengths (μm indicated as microns) are calculated in real time, as shown in the last line. These extinction coefficients, obtained from Mie theory, give only the extinction due to the aerosols; no molecular absorption or Rayleigh scattering is included.

Because the ship is small, we could not take the mobile laboratory on board. Thus, we removed the main electronic modules from the van and placed them in a compartment usually used as the radio and meteorological workshop. Cables ran about 10 m to the sensor location. Figure 4 shows the sensors mounted in their operating position. In this position they were exposed to the elements, as their measurement requirements necessitate. However, since the particle spectrometers are not rainproof, we took them inside during the off hours. Furthermore, in rough weather the waves actually broke over the mounting position, making it imperative that they not be left unattended for long periods. Thus, the data in this report are primarily for the daylight hours and relatively fair weather.

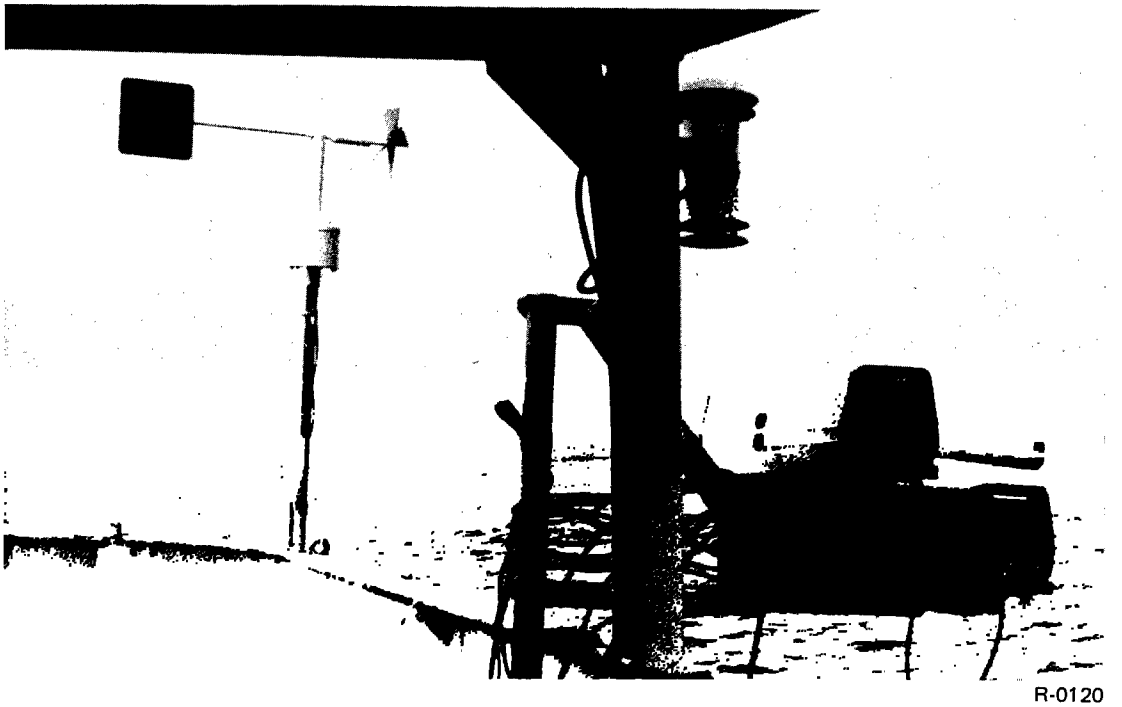

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Fig. 4 — Aerosol spectrometers at mounting site

Daily, weather permitting, we mounted the probes and did a bin-by-bin check on their operation. We then set the initial Weather Service readings on the potentiometers and did a sample real-time computer run to check operation. After mounting a data tape, we chose a total run time according to the weather conditions and instructed the computer program to produce an appropriate number of 20-min averages for disc storage. During the time on station we produced 101 of these 20-min averages. The reduction of the data tapes upon returning to NRL gave 254 of these averages.

PARTICLE-COUNTER CALIBRATION

Although calibration equipment is taken into the field in case of emergency, we rely on the manufacturer's calibration of the aerosol probes. The instruments are calibrated before each major field trip. If it seems warranted, the calibration is repeated after the trip. Calibration is done using glass beads for the larger size ranges and polystyrene or latex spheres for the smaller sizes. Adjustment is seldom needed during calibrations.

The manufacturer gives an accuracy of 10% to the flow rates and plus or minus one sampling bin size for particle sizing. The error in the flow rate converts directly with respect to an extinction coefficient calculation. The bin-size error is more complex. Due to the steep slope on many of the size distributions, a one-bin displacement may not appear to change the curve much, but a calculation of extinction coefficients may reveal an order-of-magnitude effect.

Nevertheless, we have made several comparisons [1-3] with other instruments running concurrently and have found agreement generally better than the one-bin error would predict. Further, we have measured particles at sites in conjunction with optical transmission measurements. When wind direction and relative humidity were taken into account, predicted and measured transmissions compared favorably.

MEASUREMENT RESULTS

Rather than showing all 254 particle size distributions and their associated meteorological parameters, we will look at the statistical nature of the measured variables. At station *Lima*, there is little land influence. The station is located 800 km (500 mi) west of Scotland, as marked in Fig. 5, and with a westerly air-mass movement, the air temperature is closely linked to the sea temperature. For July, a nearly perpetual cloud cover also contributes to the stability. Thus, temperature excursions are small. Figure 6 is a frequency-of-occurrence plot of the air temperature for the 254 twenty-minute averages. The figure shows very well the lack of variation of the temperature during daylight hours.

Although knowledge of the air temperature is important, the variables of interest for studying the marine aerosol are wind speed and relative humidity. Figure 7 is a statistical plot of the wind speed. It appears that the data give a normal distribution. However, the data are biased because we could not take data when high winds generated waves which threatened the instruments. This problem stopped us from taking data completely for 3 days on station.

Fig. 5 — Measurement location — Station *Lima*, 57°N 20°W

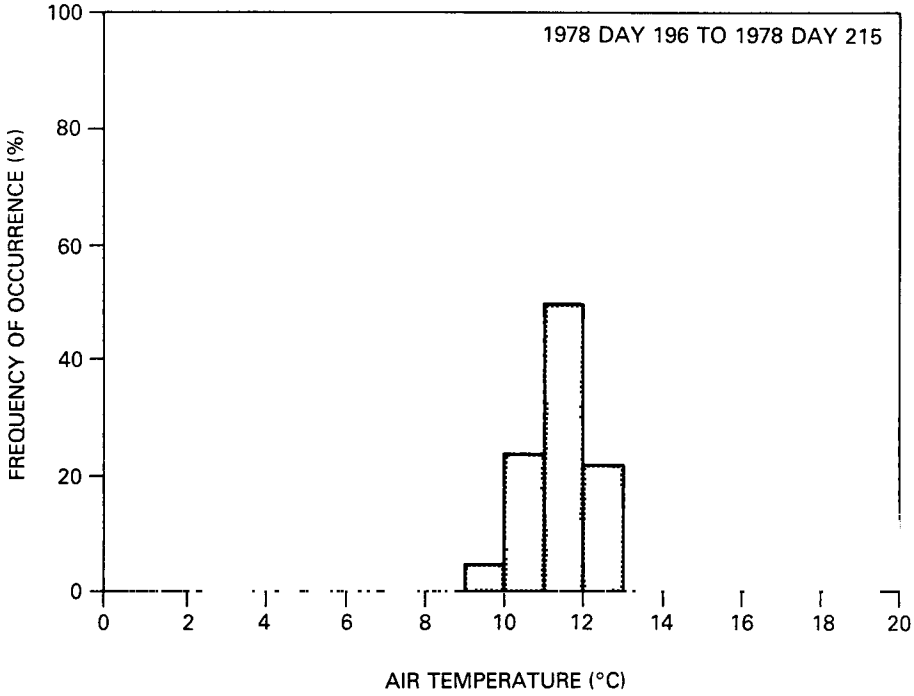

Fig. 6 — Frequency-of-occurrence plot of air temperature

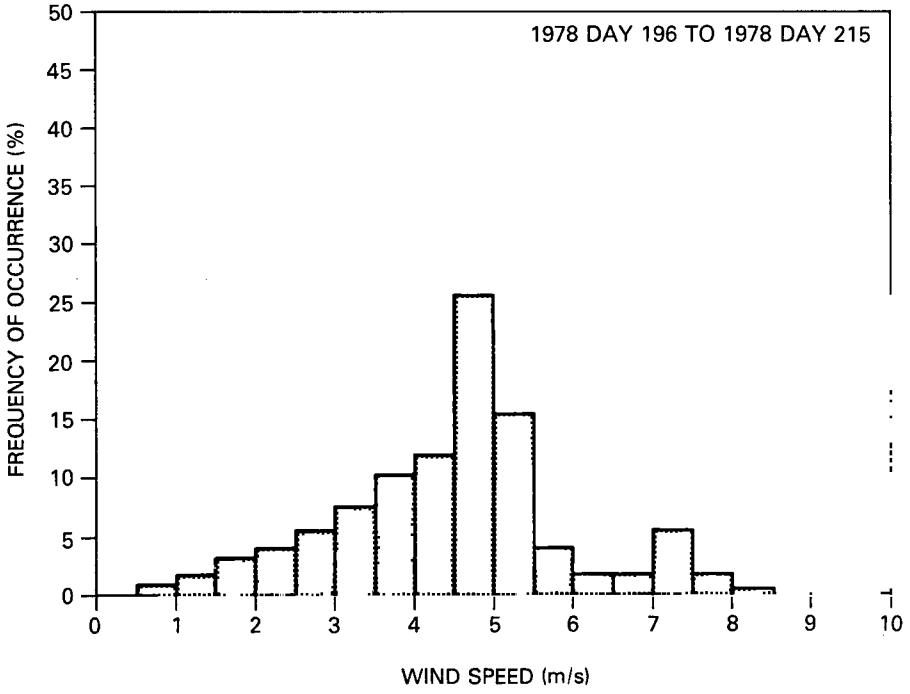

Fig. 7 — Frequency-of-occurrence plot of wind speed

A brief word here about the correlation of airborne particles with wind speed is appropriate. Cross-correlation calculations between wind speed and particle parameters such as total number, cross section, volume, and calculated extinction show that the correlation is quite low for our samples. Figure 8, for example, shows a plot of the parameter which gave the best correlation, viz, total particle volume. Obviously the correlation is not good; the others were worse. In observing the conditions at sea directly, we saw that for a rising wind the decrease in visibility did not seem to occur until after the higher wind had existed for a prolonged time. Therefore, if wind speed is to be an input parameter for marine aerosol models, it might be necessary to include a time history for meaningful results.

The second input parameter to many aerosol models is the relative humidity. Figure 9 is a frequency-of-occurrence plot of relative humidity for our measurement period. The relative humidity does not have a large range, since less than 12% of the samples have values less than 80%. Even so, the cross-correlation calculations show a higher correlation with the particle parameters than did the wind speed. Again, the best correlation was with total particle volume. That plot is shown in Fig. 10.

A separate issue concerning relative humidity should also be mentioned here. The fact that the relative humidity usually remained about 80% makes our calculated extinction coefficients more believable, because for relative humidities below 70% the particles may no longer be primarily water and may also not be spherical, both of which assumptions are used for the calculations.

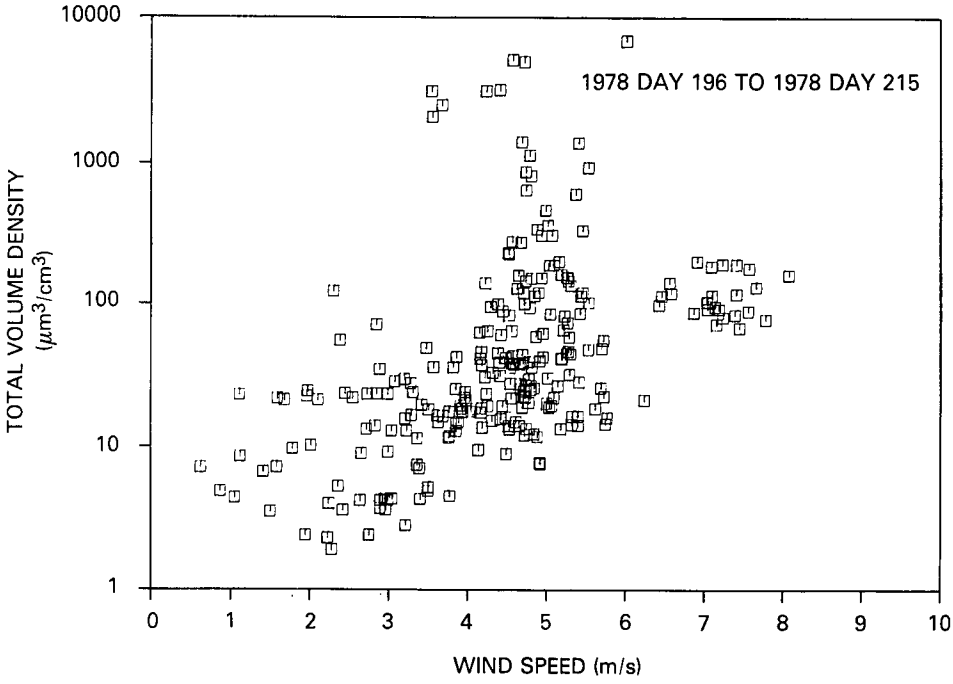

Fig. 8 — Total volume density of measured particles plotted vs wind speed

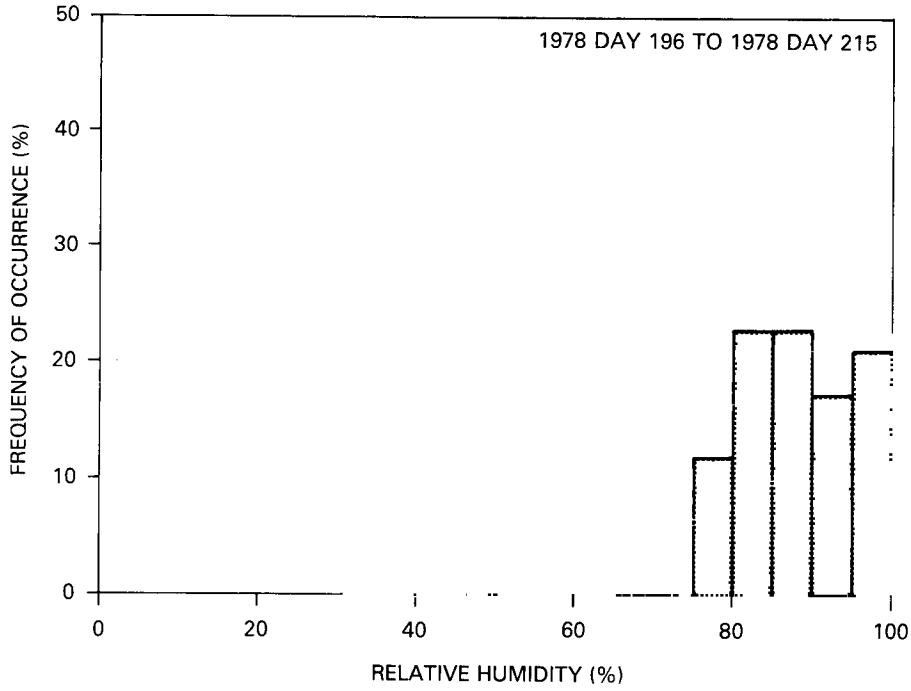

Fig. 9 — Frequency-of-occurrence plot of relative humidity

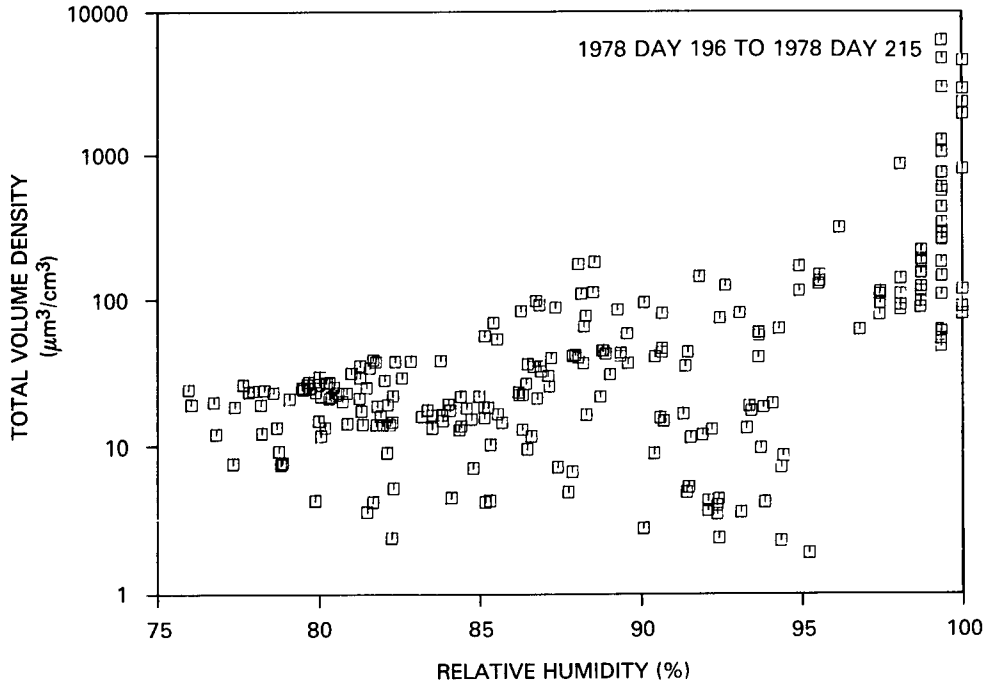

Fig. 10 — Total volume density of measured particles plotted vs relative humidity

Figure 11 shows that the variation in water vapor pressure during July was rather small, indicating that the extinction due to water vapor will be roughly that calculated for 1.2 kPa (9.0 torr) ± 20%. Calculated extinction due to aerosols, on the other hand, varies considerably. Figures 12, 13, and 14 show the frequency-of-occurrence plots for the calculated aerosol extinction at 0.55 μm, 3.8 μm, and 10.0 μm, respectively. At all three wavelengths the variation is three orders of magnitude or more. Of course, when the molecular extinction is added for the infrared cases, the variation becomes much less. For example, for the 10-μm case, since 1.2 kPa (9.0 torr) of water vapor gives approximately 0.1 km^{-1} for extinction due to molecular absorption alone, (using the P(20) CO_2 laser line frequency), most of the values in Fig. 14 will be relatively insignificant. Thus, by calculating the appropriate 10.59-μm absorption for each 20-min-average of water vapor and adding it to the corresponding aerosol extinction, we find that the frequency-of-occurrence plot for total extinction shows over 90% of the readings clustered near the 0.1 km^{-1} value, as seen in Fig. 15. Similarly, for the 3.8-μm case the $P_2(8)$ DF laser frequency gives a molecular extinction coefficient near 0.022 km^{-1}. Here the distribution shifts to the right and loses part of the left side, as Figure 16 depicts. However, for 3.8 μm the molecular extinction does not dominate as it does for 10.0 μm.

The point here is that if one wanted to predict 3.8-μm transmission it would be necessary to monitor both the water vapor and the particle size distribution, at least for a large portion of the 254 samples taken. For 10-μm transmission prediction for these same conditions, however, for over 90% of the time the aerosol measurements are superfluous.

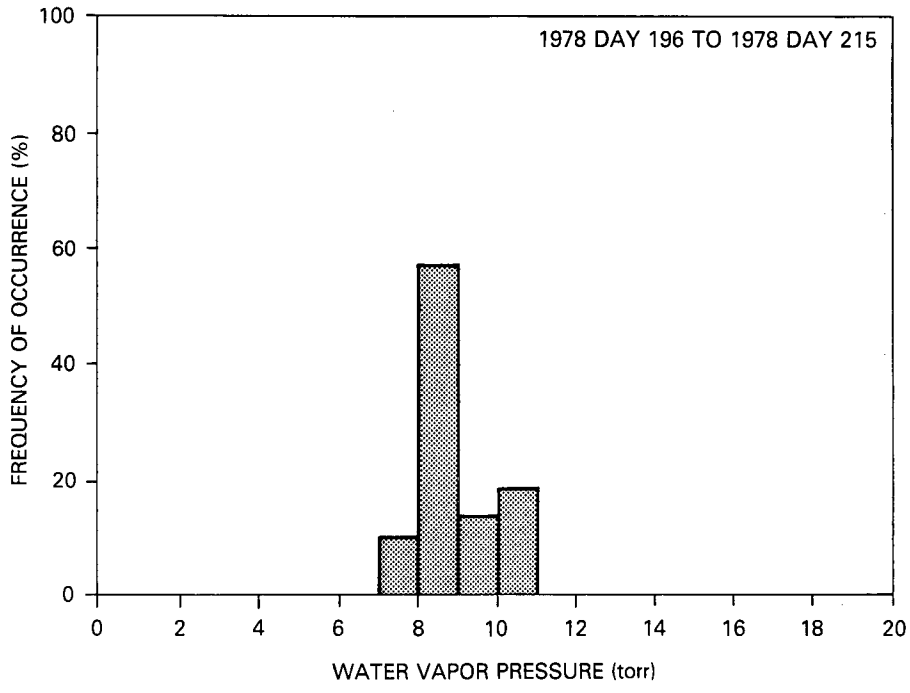

Fig. 11 — Frequency-of-occurrence plot of water vapor pressure (1 torr = 0.1333 kPa)

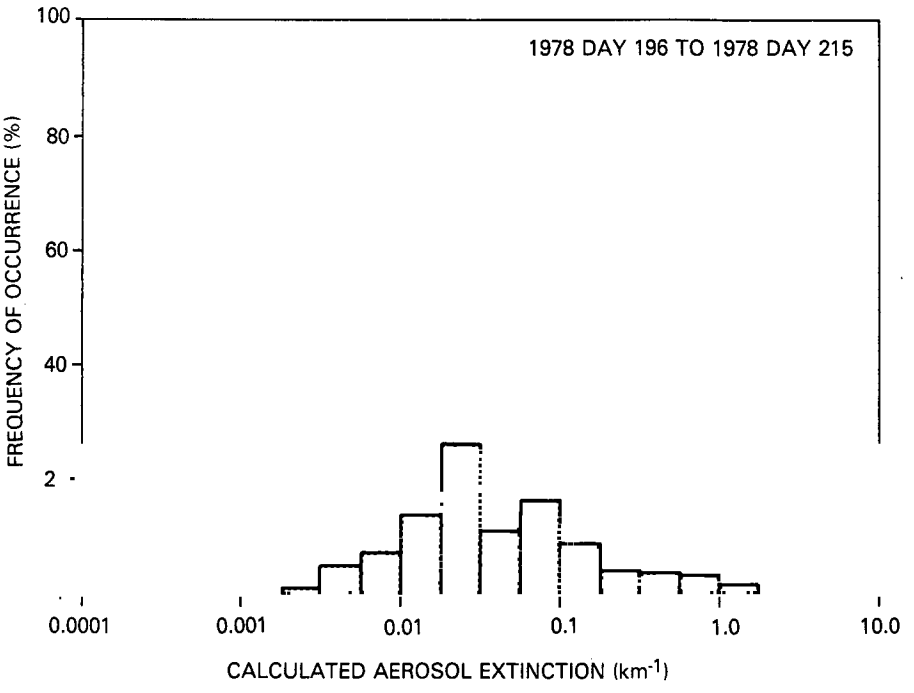

Fig. 12 — Frequency-of-occurrence plot of calculated aerosol extinction at 0.55 μm

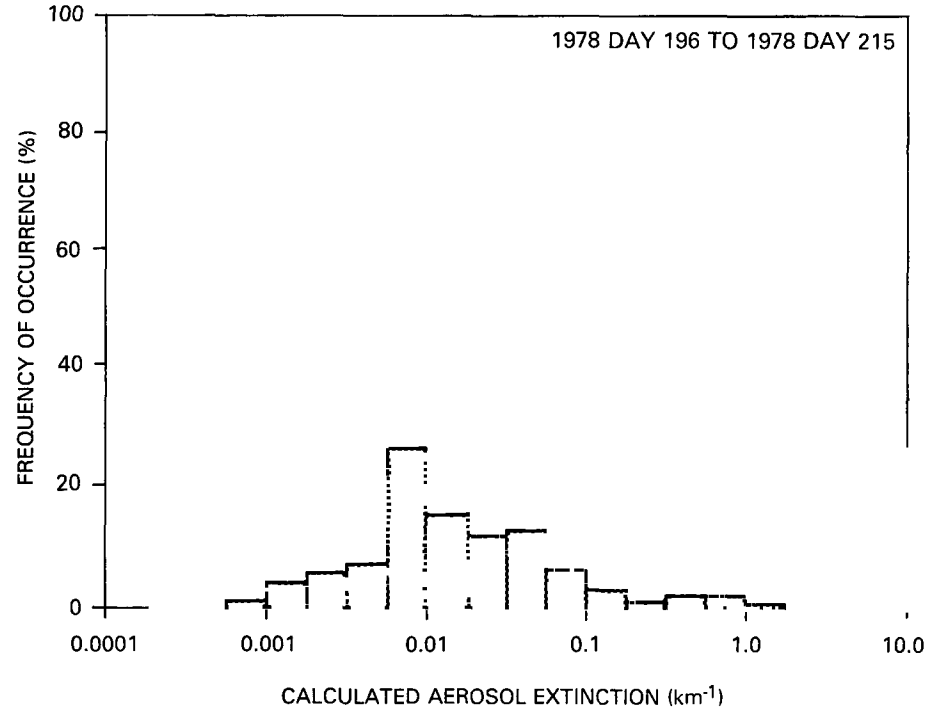

Fig. 13 — Frequency-of-occurrence plot of calculated aerosol extinction at 3.8 μm

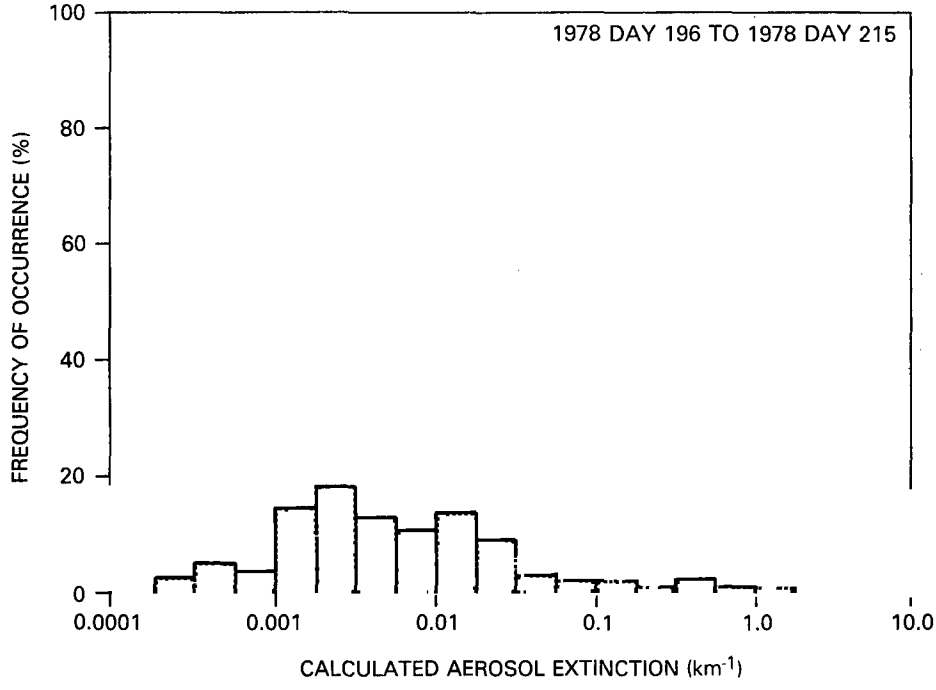

Fig. 14 — Frequency-of-occurrence plot of calculated aerosol extinction at 10.0 μm

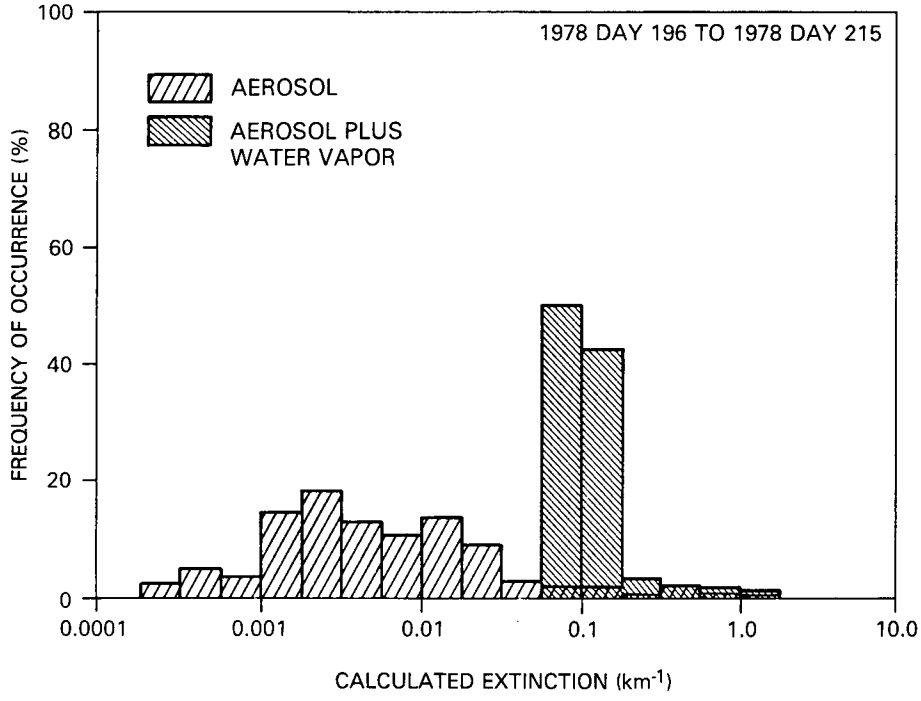

Fig. 15 — Frequency-of-occurrence plot of calculated extinction at 10.0 μm with and without water-vapor contribution

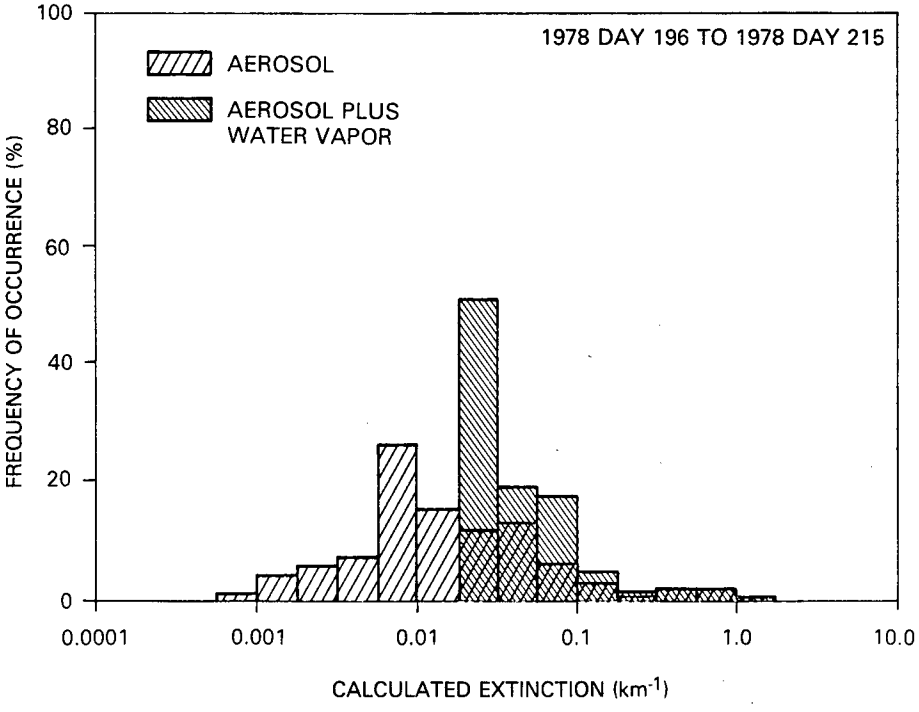

Fig. 16 — Frequency-of-occurrence plot of calculated extinction at 3.8 μm with and without water-vapor contribution

As a summary showing the wide variety of aerosol effects on extinction, Fig. 17 gives six calculated aerosol extinction vs wavelength plots. The criteria for selection of these examples were only that they cover a wide range and be spread evenly on the graph. There are several things to note in this figure. Most obvious is the range of values of extinction coefficient for any given wavelength, although the range is greatest for longer wavelengths. The latter fact is true because the largest extinction coefficient plot here is for a fog, where the particles are large, such that the scattering is nearly equally effective for all of the considered wavelengths. Note, also, the two samples where the curves actually cross. These two curves vividly point out the possible variation in slope of this function. The important point here is that the ratio of extinction coefficients at two wavelengths is not constant, as is assumed in marine aerosol models such as the one in LOWTRAN IIIB. Figure 18, which shows calculated 10-μm extinction plotted vs calculated 0.55-μm extinction, shows this as well. Although the correlation is fairly good, because of the log axis the scatter is well over an order of magnitude.

VISIBILITY OBSERVATIONS

This section is concerned with the Weather Service's visibility measurements. Their procedure is as follows: they go on deck, scan the horizon, then report the lowest visibility they encounter in the scan. On this particular cruise it was the rule, rather than the exception, that at least one direction presented a lower visibility when compared with the rest. That is, there was usually a low cloud, a patch of fog, or a rain squall in sight: these determined the visibility reading.

Thus, when the log showed a visibility of 2 km, our calculated visibility from concurrent aerosol measurements may have estimated 20 km. In fact, 20 km may have been the visibility looking in the direction opposite that used for the visual reading. Figure 19 summarizes this by showing the frequency-of-occurrence plot of the calculated aerosol extinction together with the extinction obtained from the visibility observations (using the Koschmieder relation, $\alpha = 3.91/V$) made by the Weather Service personnel.

The point is that some models for marine aerosols are derived from weather-ship data, and these models may attempt to predict the visibility from the wind speed and relative humidity. Obviously, something is amiss. Either the Weather Service will have to record more than just the lowest visibility or the modelers will have to look elsewhere for data.

AEROSOL EXTINCTION PREDICTIONS

Chýlek and others [4,5] have suggested that, for long wavelengths, the aerosol extinction is proportional to the total liquid-water content in the aerosol. A large collection of data such as that reported here lends itself to checking such a proposal. With the assumption that the aerosol particles are water and spheres, Fig. 20 indicates that the proportionality does indeed hold for 10 μm for the data collected. In fact, it is quite remarkable considering the nearly four orders of magnitude of variation in the total volume. An attempt to extend this proportionality to visible wavelengths is not successful, however, as Fig. 21 clearly shows. On the other hand, the 0.55 μm extinction does exhibit a strong proportionality to another simple function of the aerosol, namely, the total cross section. The correlation is, in fact, even better than that for 10 μm with total volume. Figure 22 shows that correlation for our 254 twenty-minute samples.

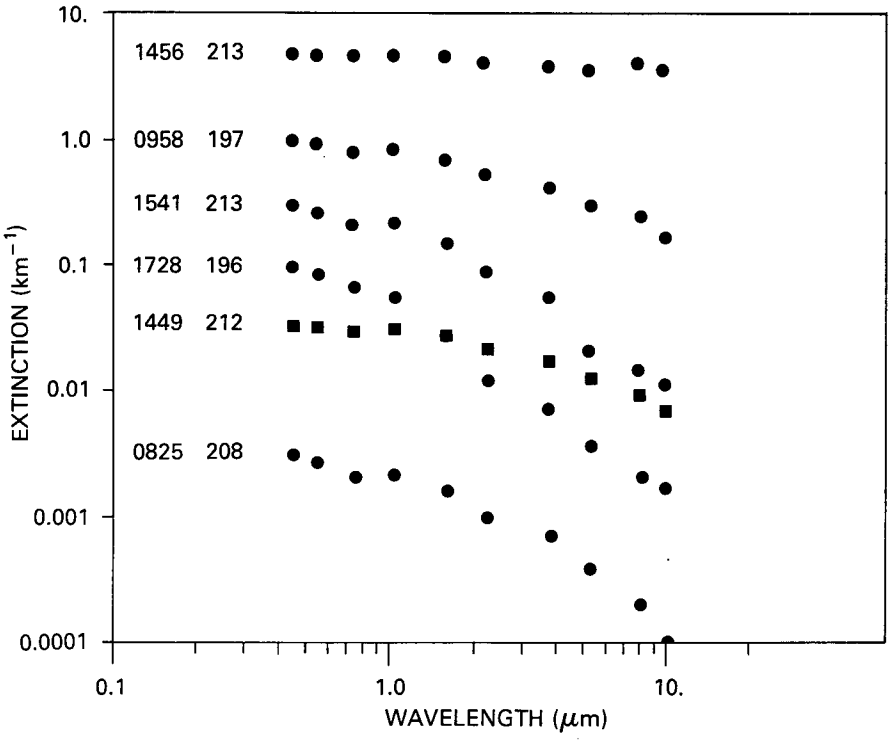

Fig. 17 — Aerosol extinctions plotted vs wavelength

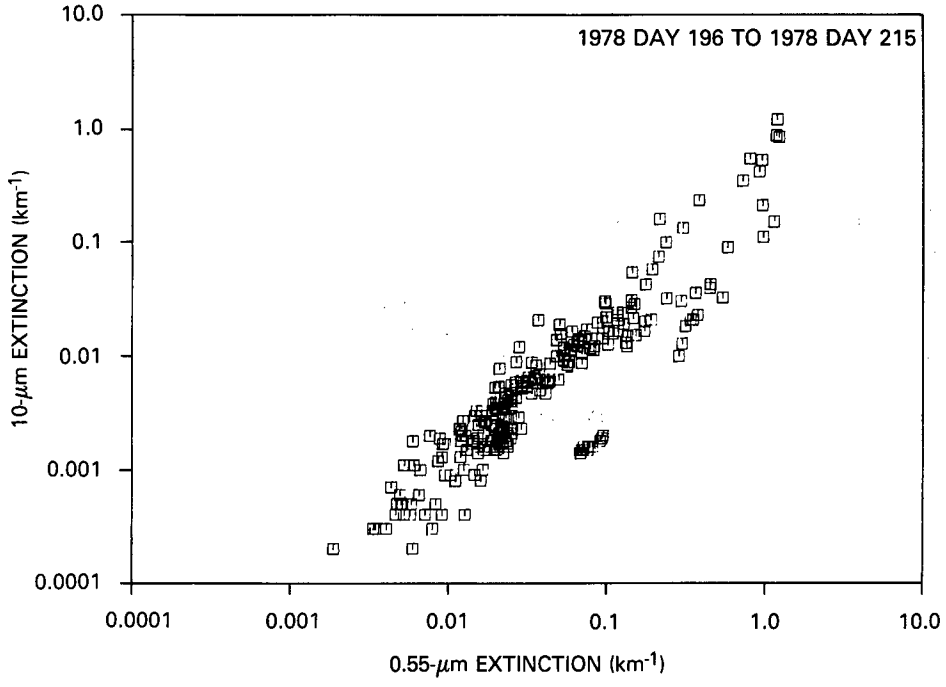

Fig. 18 — Calculated aerosol extinction at 10.0 μm plotted vs calculated aerosol extinction at 0.55 μm

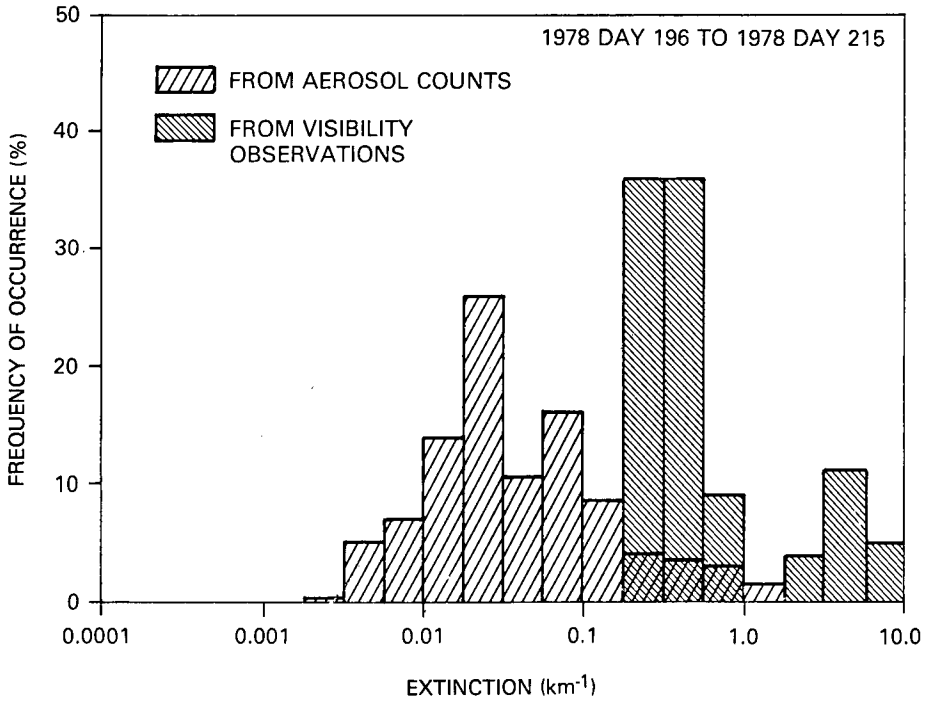

Fig. 19 — Calculated extinction at 0.55 μm compared with extinction visibility observations

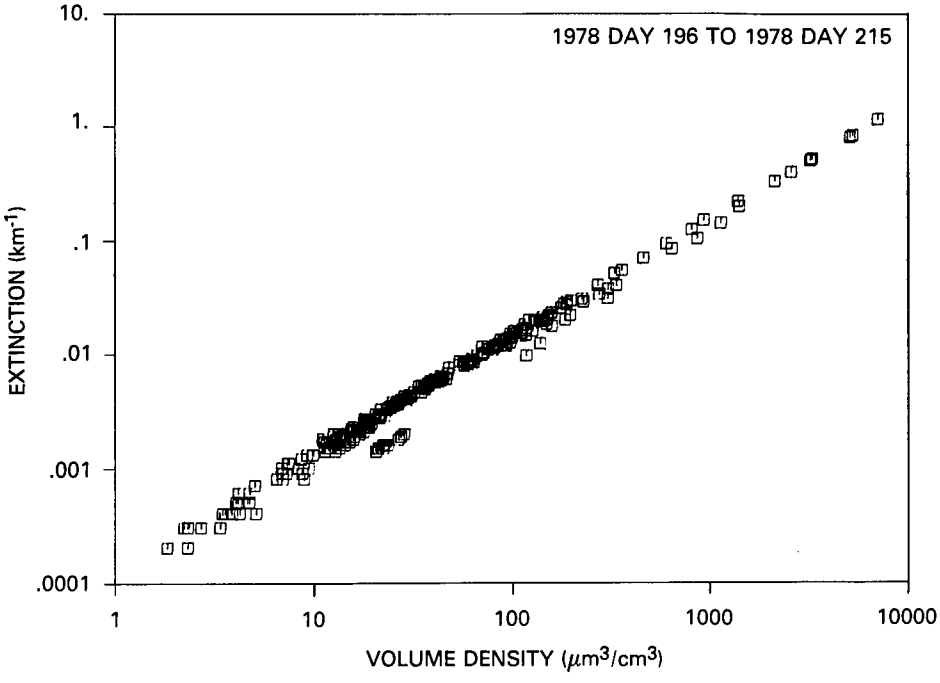

Fig. 20 — Calculated aerosol extinction at 10.0 μm plotted vs total volume density of particles (total liquid water)

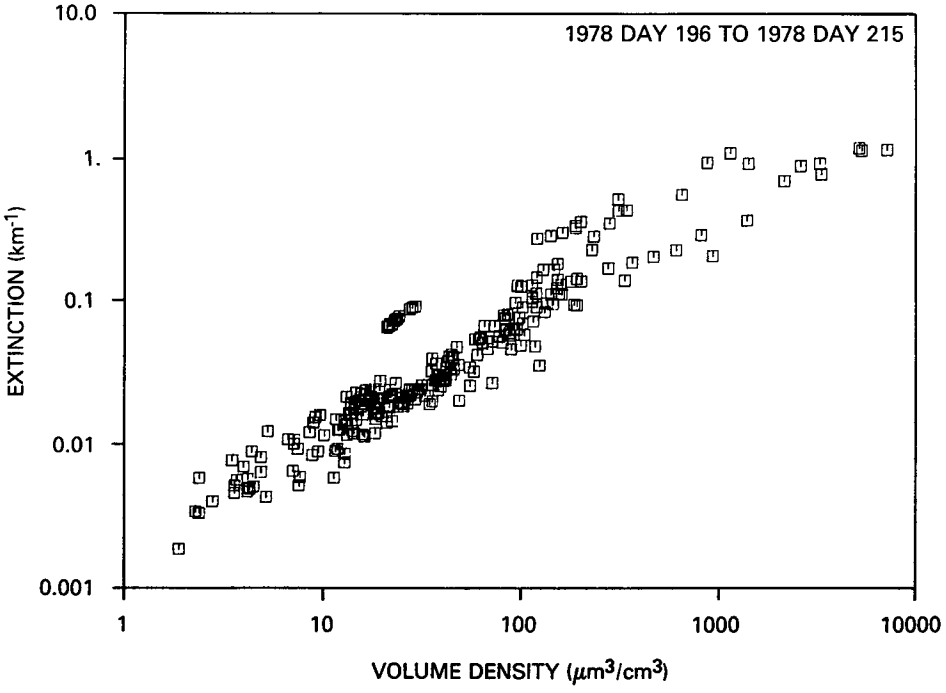

Fig. 21 — Calculated aerosol extinction at 0.55 μm plotted vs total volume density of particles (total liquid water)

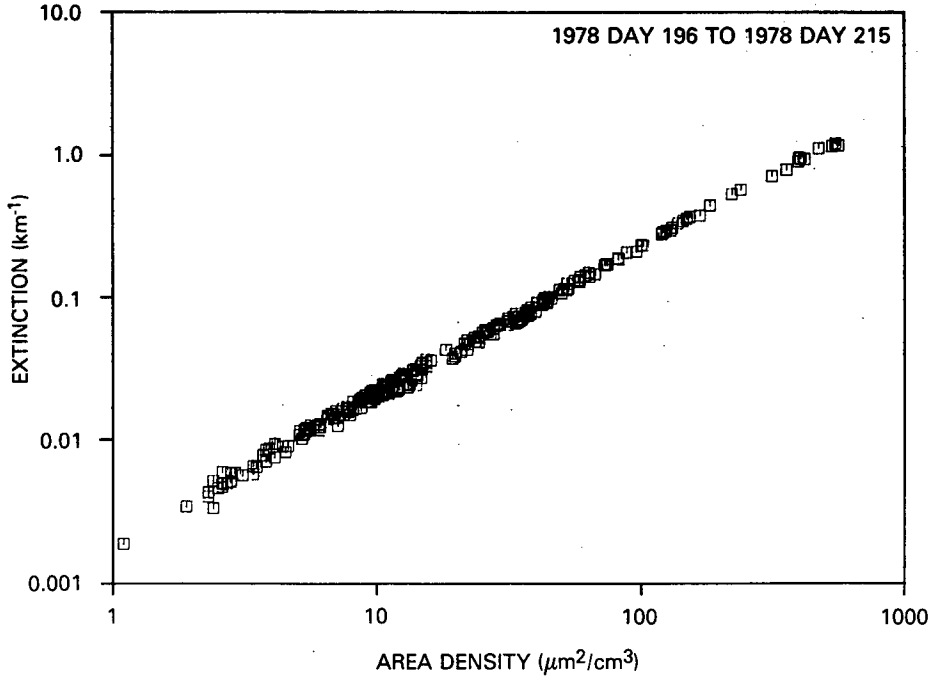

Fig. 22 — Calculated aerosol extinction at 0.55 μm plotted vs total cross-sectional area density of particles

Unfortunately, correlating other wavelengths with the simple functions number, area, and volume give less desirable results than do the two good ones shown here. Nevertheless, for predicting 10-μm aerosol extinction, a mass monitor that does not modify the sample could possibly do a good job. And for visibility predictions a device that monitors cross-sectional area would work well. Currently, a nephelometer best fits the requirements of the latter.

RECOMMENDATIONS

As noted earlier, one of the aims of the project was determining if the weather ship is suitable for making aerosol measurements that would satisfy the Navy's at-sea measurement requirements. Given that data are required for all types of weather and that this ship is not usable in bad weather, the conclusion is that it is not a suitable platform. High-wind data are needed for adequate testing of marine aerosol models.

When we have compared the shipboard results with land-based results, we may find the two sets of data much the same for similar wind speeds and relative humidities, or we may not. In either case, further measurements at sea and on land are recommended: at-sea measurements, because of the certainty of the lack of interference from surf and land-mass effects, and land-based measurements, because of needed comparisons with the more expensive and more difficult shipboard measurements.

For open-ocean studies, there are several recommendations. If a ship is used, it should be much larger than *Fitzroy*, so that easily accessible probe-mounting sites can assure damage-free operation of the probes during rough weather. Several choices for mounting heights would also be important for obtaining vertical profiles of the aerosol. Furthermore, if the ship is long enough a shipboard transmission measurement along the deck may be feasible along with the aerosol measurements.

For a ship that is not dedicated to the experiment, self-contamination is the worst problem; e.g., finding a place with clean air on a ship steaming with the wind may be impossible. Of course, prudent scheduling, with ship route and prevailing wind in mind, may alleviate the problem.

The alternative to a ship for open-ocean measurements is a sea platform such as used for drilling for oil. There, one could, for example, make high-resolution vertical aerosol profile measurements quite simply, compared with the problems associated with the same measurement aboard ship. Also, because the platforms would be usable in most weather as well, they would actually be preferable to a ship — except for the obvious location limitation.

In conclusion, the reader should not infer that the measurements from the *Fitzroy* cruise are not useful. They are indeed useful, but unfortunately the data for high-wind conditions are conspicuously absent. Future measurements on a better platform would correct this. In the joint report with the U.K., we will discuss in detail the comparisons between the shipboard and land-based measurements. Therein may lie some indication as to how extensive future shipboard measurements should be.

ACKNOWLEDGMENTS

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REFERENCES

1. E. E. Hindman II, Bull. Am. Meteorol. Soc. 58, 592 (1977).
2. W. A. Hoppel, "Relationship between Dry Aerosol Size, Critical Supersaturation, and Size at High Relative Humidity," *Conference on Cloud Physics and Atmospheric Electricity, Issaquah, Washington*, American Meteorological Society, Boston, Mass., Aug. 1978, p. 16.
3. D. Jensen, R. Jeck, G. Trusty, G. Schacher, "Intercomparison of PMS Particle Size Spectrometer," NOSC Technical Report 555, June 1980.
4. P. Chýlek, "Extinction and Liquid Water Content of Fogs and Clouds," J. Atmos. Sci. 35, 296 (1978).
5. R. G. Pinnick, S. G. Jennings, P. Chýlek, and H. J. Auvermann, "Verification of a Linear Relation Between IR Extinction, Absorption, and Liquid Water Content of Fogs," J. Atmos. Sci. 36, 1577 (1979).

Appendix

AEROSOL DATA

As examples of marine atmosphere aerosol data, we have listed the 20-min averages of measurements that we made during the times the ship was stopped and turned into the wind. Tables A1a to A1e give the particle density distribution dN/dR ($cm^{-3}\ \mu m^{-1}$) as a function of the radius of the probe bin centers. For Probe 1 we give results from only the first seven bins. Due to a double-valued sensitivity in the detection response, the data for the larger size ranges of that probe have proven to be inconsistent in many instances. For the purpose of calculating extinction coefficients, we fit a line between the value for the seventh bin of Probe 1 (ASASP) and the first bin of Probe 2 (CSASP). For convenience, the radii chosen for the fitted line are the same as the remaining eight bin centers of Probe 1.

Tables A2a to A2f give meteorological parameters and, for four wavelengths, calculated extinction coefficients. (The extinction calculations do not include molecular absorption.)

We have listed the particle probe bin edges in Table A3 to aid those who may wish to put the aerosol data into a form different from the one we have chosen.

Although all 254 size distributions are in Tables A1a to A1e, we want to show one sample plot for each day. For simplicity we chose to plot only those data that occurred at 1000, 1200, or 1400 hours, whichever came first on that day. Day 205 gave the only exception. Figures A1a to A1o show the resulting 15 plots.

Table A1a — Twenty-Minute Averages of dN/dR (cm^{-3} μm^{-1}) vs Radius (μm)

PROGRAM A49GLT: AEROSOL DISTRIBUTION TABULATION (PROCESSED ON 27-APR-81)

NRL6532: ON FITZROY

		RADIUS --->	0.12	0.15	0.18	0.22	0.26	0.29	0.33	1.23	2.18	3.12	4.08
78	196	1320	0.[illegible]-01	2.[illegible] 03	1.12E 03	4.[illegible] 02	3.31E 02	2.[illegible] 02	1.57E 02	1.36E 00	5.42E-03	5.85E-04	1.23E-04
		1340	0.[illegible]-01	3.[illegible] 03	1.33E 03	4.[illegible] 02	3.23E 02	2.[illegible] 02	1.77E 02	1.38E 00	5.82E-03	4.93E-04	6.16E-05
		1400	0.[illegible]-01	2.[illegible] 03	1.18E 03	5.[illegible] 02	3.49E 02	2.[illegible] 02	1.28E 02	1.30E 00	4.71E-03	4.93E-04	1.54E-04
		1420	0.[illegible]-01	2.[illegible] 03	1.22E 03	4.[illegible] 02	3.53E 02	2.[illegible] 02	1.29E 02	1.25E 00	5.57E-03	4.00E-04	2.77E-04
		1440	0.[illegible]-01	2.[illegible] 03	1.22E 03	4.[illegible] 02	3.56E 02	2.[illegible] 02	1.41E 02	1.25E 00	6.44E-03	6.16E-04	2.77E-04
		1500	0.[illegible]-01	2.[illegible] 03	1.19E 03	5.[illegible] 02	3.41E 02	2.[illegible] 02	1.25E 02	1.22E 00	5.48E-03	7.70E-04	2.77E-04
		1520	0.[illegible]-01	2.[illegible] 03	1.26E 03	5.[illegible] 02	3.86E 02	2.[illegible] 02	1.54E 02	1.33E 00	6.50E-03	6.16E-04	2.16E-04
		1540	0.[illegible]-01	2.[illegible] 03	1.28E 03	5.[illegible] 02	4.07E 02	2.[illegible] 02	1.49E 02	1.34E 00	5.39E-03	6.47E-04	1.23E-04
		1600	0.[illegible]-01	2.[illegible] 03	1.28E 03	5.[illegible] 02	3.60E 02	2.[illegible] 02	1.50E 02	1.42E 00	5.97E-03	6.47E-04	9.24E-05
		1620	0.[illegible]-01	2.[illegible] 03	1.29E 03	6.[illegible] 02	4.04E 02	2.[illegible] 02	1.93E 02	1.63E 00	6.19E-03	8.01E-04	9.24E-05
		1640	0.[illegible]-01	2.[illegible] 03	1.29E 03	6.[illegible] 02	4.55E 02	2.[illegible] 02	1.84E 02	1.83E 00	6.31E-03	6.47E-04	2.77E-04
		1700	0.[illegible]-01	2.[illegible] 03	1.40E 03	6.[illegible] 02	4.20E 02	2.[illegible] 02	1.96E 02	1.67E 00	6.47E-03	7.08E-04	1.85E-04
		1720	0.[illegible]-01	2.[illegible] 03	1.30E 03	5.[illegible] 02	3.48E 02	2.[illegible] 02	1.68E 02	1.29E 00	5.70E-03	4.62E-04	2.46E-04
		1740	0.[illegible]-01	2.[illegible] 03	1.26E 03	5.[illegible] 02	3.46E 02	1.[illegible] 02	1.45E 02	1.23E 00	5.51E-03	5.23E-04	1.85E-04
		1800	0.[illegible]-01	2.[illegible] 03	1.32E 03	5.[illegible] 02	3.44E 02	2.[illegible] 02	1.54E 02	1.31E 00	6.40E-03	7.08E-04	1.54E-04
78	197	820	0.[illegible]-01	3.77E 03	2.25E 03	1.21E 03	8.97E 02	5.45E 02	3.94E 02	8.78E 00	9.[illegible]-02	1.77E-02	4.90E-03
		840	0.[illegible]-01	3.61E 03	2.13E 03	1.17E 03	8.41E 02	5.71E 02	3.73E 02	9.82E 00	1.[illegible]-01	2.51E-02	7.94E-03
		900	0.[illegible]-01	6.30E 03	2.99E 03	1.75E 03	1.31E 03	8.64E 02	6.50E 02	1.80E 01	3.[illegible]-01	8.22E-02	2.50E-02
		920	0.[illegible]-01	1.29E 04	4.41E 03	2.42E 03	1.81E 03	1.24E 03	9.41E 02	4.19E 01	1.[illegible] 00	3.56E-01	1.03E-01
		940	0.[illegible]-01	9.75E 03	3.40E 03	1.89E 03	1.49E 03	1.05E 03	8.40E 02	3.51E 01	1.[illegible] 00	4.33E-01	1.41E-01
		1000	0.[illegible]-01	8.48E 03	3.04E 03	1.59E 03	1.25E 03	8.42E 02	7.00E 02	2.86E 01	1.[illegible] 00	7.61E-01	2.96E-01
		1020	0.[illegible]-01	5.17E 03	2.22E 03	1.35E 03	1.02E 03	6.80E 02	5.50E 02	1.72E 01	8.[illegible]-01	3.66E-01	1.27E-01
		1040	0.[illegible]-01	3.18E 03	1.80E 03	1.21E 03	9.42E 02	6.78E 02	4.91E 02	9.07E 00	5.[illegible]-01	1.82E-01	5.95E-02
		1100	0.[illegible]-01	2.68E 03	1.59E 03	1.08E 03	8.36E 02	5.51E 02	4.24E 02	6.60E 00	4.[illegible]-01	1.62E-01	5.22E-02
		1120	0.[illegible]-01	1.94E 03	1.22E 03	7.36E 02	5.51E 02	3.50E 02	2.54E 02	3.71E 00	2.[illegible]-01	7.83E-02	2.56E-02
		1140	0.[illegible]-01	1.77E 03	1.08E 03	7.25E 02	4.88E 02	3.06E 02	1.98E 02	2.71E 00	1.[illegible]-01	5.79E-02	2.05E-02
		1200	0.[illegible]-01	2.14E 03	1.23E 03	7.41E 02	5.48E 02	3.20E 02	2.00E 02	2.34E 00	2.[illegible]-01	6.56E-02	2.07E-02
		1220	0.[illegible]-01	2.21E 03	1.34E 03	8.29E 02	6.16E 02	4.13E 02	2.67E 02	3.14E 00	2.[illegible]-01	8.42E-02	3.02E-02
		1240	0.[illegible]-01	2.47E 03	1.51E 03	9.81E 02	7.03E 02	4.84E 02	3.50E 02	4.83E 00	3.[illegible]-01	1.15E-01	4.06E-02
		1300	0.[illegible]-01	2.48E 03	1.56E 03	9.13E 02	6.43E 02	4.72E 02	3.10E 02	3.41E 00	2.[illegible]-01	8.86E-02	3.11E-02
		1400	0.[illegible]-01	3.24E 03	1.93E 03	1.32E 03	1.01E 03	6.98E 02	4.94E 02	1.46E 01	4.[illegible]-01	1.32E-01	4.85E-02
		1420	0.[illegible]-01	4.22E 03	2.41E 03	1.68E 03	1.36E 03	9.33E 02	7.17E 02	1.08E 01	2.[illegible]-01	9.57E-02	4.35E-02
		1440	0.[illegible]-01	3.54E 03	2.32E 03	1.65E 03	1.24E 03	8.47E 02	6.11E 02	6.22E 00	1.[illegible]-01	3.88E-02	1.79E-02
		1500	0.[illegible]-01	3.82E 03	2.35E 03	1.61E 03	1.25E 03	8.99E 02	7.11E 02	8.16E 00	1.[illegible]-01	4.49E-02	1.71E-02
		1520	0.[illegible]-01	3.58E 03	2.17E 03	1.45E 03	1.20E 03	8.24E 02	5.63E 02	9.03E 00	1.[illegible]-01	3.69E-02	1.45E-02
		1540	0.[illegible]-01	3.23E 03	2.01E 03	1.26E 03	1.08E 03	6.95E 02	5.18E 02	9.23E 00	1.[illegible]-01	3.50E-02	1.56E-02
78	198	1340	0.00E-01	1.88E 03	1.08E 03	6.61E 02	3.85E 02	1.86E 02	1.42E 02	2.38E 00	3.87E-01	1.47E-01	4.50E-02
		1400	0.00E-01	1.49E 03	1.09E 03	5.68E 02	3.32E 02	1.82E 02	1.19E 02	2.17E 00	2.92E-01	1.01E-01	3.30E-02
		1420	0.00E-01	1.56E 03	7.19E 02	2.68E 02	1.92E 02	1.05E 02	6.25E 01	1.98E 00	1.96E-01	5.59E-02	2.05E-02
		1440	0.00E-01	1.77E 03	1.22E 03	5.83E 02	3.21E 02	2.07E 02	1.26E 02	2.50E 00	2.62E-01	7.96E-02	2.60E-02
		1500	0.00E-01	1.96E 03	1.19E 03	4.61E 02	2.80E 02	1.43E 02	1.05E 02	2.48E 00	2.69E-01	7.80E-02	2.69E-02
		1520	0.00E-01	2.31E 03	1.29E 03	6.56E 02	3.88E 02	2.06E 02	1.42E 02	3.19E 00	3.23E-01	9.33E-02	3.73E-02
		1540	0.00E-01	6.56E 02	5.60E 02	5.25E 02	3.20E 02	1.80E 02	1.51E 02	3.01E 00	3.60E-01	1.04E-01	4.07E-02
		1600	0.00E-01	6.99E 02	5.05E 02	3.31E 02	2.75E 02	1.54E 02	9.03E 01	2.75E 00	3.31E-01	9.21E-02	3.51E-02
		1620	0.00E-01	7.44E 02	4.73E 02	1.84E 02	1.10E 02	4.13E 01	4.82E 01	1.82E 00	1.68E-01	3.67E-02	1.45E-02
		1640	0.00E-01	7.59E 02	4.67E 02	2.08E 02	1.15E 02	4.22E 01	4.44E 01	1.51E 00	1.60E-01	4.33E-02	1.57E-02
		1700	0.00E-01	8.76E 02	4.80E 02	1.61E 02	9.12E 01	4.73E 01	4.44E 01	1.77E 00	1.90E-01	4.97E-02	1.81E-02
78	201	800	0.00E-01	4.18E 02	1.41E 02	4.04E 01	3.10E 01	1.12E 01	9.03E 00	1.65E-01	5.88E-03	1.08E-03	4.31E-04
		820	0.00E-01	2.07E 02	8.36E 01	2.58E 01	1.89E 01	1.38E 01	9.03E 00	1.43E-01	5.36E-03	6.16E-04	9.24E-05
		840	0.00E-01	2.38E 02	1.08E 02	3.96E 01	2.75E 01	7.74E 00	1.05E 01	2.16E-01	1.04E-02	1.32E-03	2.16E-04
		900	0.00E-01	3.77E 02	1.37E 02	2.67E 01	2.41E 01	7.74E 00	1.43E 01	2.17E-01	1.30E-02	1.66E-03	5.54E-04

Table A1a (Continued)

PROGRAM A49GLT: AEROSOL DISTRIBUTION TABULATION (PROCESSED ON 27-APR-81)

NRL6532: ON FITZROY

RADIUS --->			5.03	5.97	6.93	7.88	8.83	9.78	10.73	11.68	12.63	13.58	14.53
78	196	1320	3.08E-05	6.16E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	3.08E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01
		1340	3.08E-05	6.16E-05	3.08E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01
		1400	6.16E-05	1.23E-04	3.08E-05	6.16E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01
		1420	1.23E-04	1.23E-04	3.08E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01
		1440	1.23E-04	6.16E-05	9.24E-05	0.00E-01	3.08E-05	3.08E-05	3.08E-05	0.00E-01	3.08E-05	0.00E-01	0.00E-01
		1500	9.24E-05	1.54E-04	9.24E-05	6.16E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01
		1520	1.54E-04	1.54E-04	3.08E-05	6.16E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01
		1540	1.54E-04	9.24E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01
		1600	9.24E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01
		1620	6.16E-05	3.08E-05	0.00E-01	3.08E-05	3.08E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01
		1640	1.23E-04	6.16E-05	0.00E-01	0.00E-01	3.08E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01
		1700	6.16E-05	6.16E-05	3.08E-05	3.08E-05	3.08E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01
		1720	9.24E-05	3.08E-05	0.00E-01	0.00E-01	3.08E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01
		1740	3.08E-05	0.00E-01	0.00E-01	0.00E-01	6.16E-05	0.00E-01	3.08E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01
		1800	0.00E-01	9.24E-05	3.08E-05	3.08E-05	0.00E-01	0.00E-01	0.00E-01	3.08E-05	0.00E-01	0.00E-01	0.00E-01
78	197	820	2.80E-03	8.62E-04	1.42E-03	5.23E-04	4.93E-04	4.93E-04	3.08E-04	9.24E-05	6.[illegible]E-05	6.16E-05	3.08E-05
		840	5.02E-03	1.48E-03	2.09E-03	1.02E-03	1.05E-03	8.31E-04	3.69E-04	4.31E-04	1.[illegible]E-04	6.16E-05	1.54E-04
		900	8.96E-03	7.48E-03	3.82E-03	5.48E-03	2.19E-03	2.49E-03	2.03E-03	1.20E-03	9.[illegible]E-04	1.08E-03	5.85E-04
		920	3.89E-02	3.89E-02	1.76E-02	2.61E-02	1.18E-02	1.37E-02	1.37E-02	9.85E-03	1.[illegible]E-02	1.02E-02	6.93E-03
		940	4.40E-02	4.07E-02	1.51E-02	2.07E-02	8.34E-03	8.96E-03	7.73E-03	5.42E-03	5.[illegible]E-03	5.57E-03	3.33E-03
		1000	9.41E-02	8.73E-02	3.01E-02	4.58E-02	1.98E-02	2.07E-02	2.03E-02	1.27E-02	1.[illegible]E-02	1.22E-02	7.73E-03
		1020	4.13E-02	3.45E-02	1.20E-02	1.61E-02	7.02E-03	7.11E-03	8.22E-03	4.62E-03	4.[illegible]E-03	5.94E-03	3.42E-03
		1040	2.11E-02	1.49E-02	6.77E-03	8.31E-03	2.59E-03	3.57E-03	1.79E-03	1.51E-03	1.[illegible]E-03	8.01E-04	6.16E-04
		1100	1.80E-02	1.56E-02	5.76E-03	8.65E-03	2.31E-03	2.99E-03	2.09E-03	1.05E-03	9.[illegible]E-04	3.69E-04	4.62E-04
		1120	1.03E-02	8.28E-03	3.60E-03	4.62E-03	1.48E-03	1.91E-03	7.70E-04	4.62E-04	4.[illegible]E-04	4.62E-04	2.16E-04
		1140	7.33E-03	5.45E-03	2.46E-03	3.73E-03	1.02E-03	1.66E-03	5.54E-04	3.08E-04	2.[illegible]E-04	2.46E-04	1.54E-04
		1200	8.81E-03	5.51E-03	3.36E-03	3.48E-03	1.23E-03	1.45E-03	9.54E-04	5.85E-04	3.[illegible]E-04	3.08E-04	9.24E-05
		1220	1.22E-02	8.81E-03	4.65E-03	6.40E-03	1.76E-03	2.62E-03	1.20E-03	6.77E-04	7.[illegible]E-04	7.08E-04	3.08E-04
		1240	1.52E-02	1.24E-02	5.27E-03	7.79E-03	3.11E-03	3.36E-03	2.83E-03	2.03E-03	1.[illegible]E-03	1.45E-03	8.93E-04
		1300	1.29E-02	1.04E-02	4.90E-03	6.07E-03	2.03E-03	2.49E-03	1.79E-03	1.20E-03	7.[illegible]E-04	2.77E-04	1.54E-04
		1400	2.23E-02	1.61E-02	7.67E-03	1.13E-02	2.93E-03	5.02E-03	3.45E-03	1.82E-03	1.[illegible]E-03	8.01E-04	6.47E-04
		1420	1.87E-02	1.59E-02	6.99E-03	1.11E-02	3.73E-03	4.83E-03	3.23E-03	1.39E-03	1.[illegible]E-03	1.17E-03	7.70E-04
		1440	8.44E-03	5.73E-03	2.93E-03	4.71E-03	1.42E-03	2.25E-03	1.17E-03	8.62E-04	4.[illegible]E-04	4.31E-04	2.16E-04
		1500	9.61E-03	7.88E-03	3.79E-03	5.51E-03	1.88E-03	2.59E-03	1.82E-03	1.02E-03	8.[illegible]E-04	4.31E-04	3.39E-04
		1520	7.30E-03	6.80E-03	3.23E-03	4.53E-03	1.32E-03	2.56E-03	1.23E-03	7.70E-04	8.[illegible]E-04	4.62E-04	3.69E-04
		1540	6.80E-03	6.19E-03	3.66E-03	4.40E-03	1.79E-03	2.00E-03	1.85E-03	8.62E-04	7.[illegible]E-04	4.31E-04	4.00E-04
78	198	1340	1.94E-02	1.30E-02	8.16E-03	7.76E-03	3.51E-03	4.74E-03	2.52E-03	1.66E-03	1.57E-03	9.[illegible]E-04	4.62E-04
		1400	1.28E-02	9.08E-03	4.83E-03	5.45E-03	1.60E-03	2.62E-03	1.82E-03	9.85E-04	8.62E-04	4.[illegible]E-04	7.39E-04
		1420	9.61E-03	4.28E-03	4.34E-03	2.68E-03	1.79E-03	1.79E-03	9.54E-04	8.93E-04	6.47E-04	4.[illegible]E-04	3.69E-04
		1440	1.15E-02	5.11E-03	4.06E-03	3.54E-03	1.51E-03	2.46E-03	1.23E-03	9.24E-04	6.47E-04	3.[illegible]E-04	4.00E-04
		1500	1.22E-02	3.82E-03	5.08E-03	3.05E-03	1.82E-03	2.03E-03	1.23E-03	4.62E-04	5.54E-04	6.[illegible]E-04	1.85E-04
		1520	1.87E-02	7.64E-03	9.67E-03	3.88E-03	4.40E-03	4.22E-03	2.56E-03	1.72E-03	1.35E-03	8.[illegible]E-04	9.54E-04
		1540	2.05E-02	7.94E-03	9.54E-03	4.90E-03	4.00E-03	4.00E-03	1.85E-03	1.35E-03	9.85E-04	9.[illegible]E-04	4.62E-04
		1600	1.88E-02	6.47E-03	8.71E-03	3.73E-03	3.39E-03	2.83E-03	1.79E-03	1.35E-03	1.39E-03	6.[illegible]E-04	7.08E-04
		1620	9.36E-03	4.10E-03	3.79E-03	1.48E-03	2.68E-03	1.51E-03	1.32E-03	8.01E-04	4.31E-04	3.[illegible]E-04	2.16E-04
		1640	7.08E-03	4.06E-03	4.16E-03	1.94E-03	1.48E-03	1.11E-03	9.54E-04	6.47E-04	6.77E-04	3.[illegible]E-04	2.77E-04
		1700	1.07E-02	3.76E-03	4.80E-03	1.69E-03	2.28E-03	1.91E-03	9.54E-04	1.02E-03	5.85E-04	4.[illegible]E-04	2.77E-04
78	201	800	1.54E-04	6.16E-05	9.24E-05	0.00E-01	0.00E-01	3.08E-05	0.00E-01	0.00E-01	3.08E-05	6.16E-05	0.00E-01
		820	9.24E-05	3.08E-05	3.08E-05	0.00E-01	3.08E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01
		840	6.16E-05	9.24E-05	3.08E-05	3.08E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01
		900	3.08E-04	6.16E-05	9.24E-05	9.24E-05	6.16E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01

Table A1b — Twenty-Minute Averages of dN/dR (cm^{-3} μm^{-1}) vs Radius (μm)

PROGRAM A49GLT: AEROSOL DISTRIBUTION TABULATION (PROCESSED ON 27-APR-81)

NRL6532: ON FITZROY

		RADIUS --->	0.12	0.15	0.18	0.22	0.26	0.29	0.33	1.23	2.18	3.12	4.08
78	201	920	0.[illegible]-01	5.14E 02	1.71E 02	2.41E 01	2.32E 01	8.60E 00	7.53E 00	2.37E-01	1.55E-02	2.34E-03	6.47E-04
		940	0.[illegible]-01	4.82E 02	1.33E 02	3.87E 01	2.24E 01	1.29E 01	1.66E 01	2.61E-01	1.65E-02	2.99E-03	7.39E-04
		1000	0.[illegible]-01	5.28E 02	1.44E 02	4.04E 01	2.15E 01	1.89E 01	1.13E 01	2.71E-01	1.61E-02	2.83E-03	9.54E-04
		1020	0.[illegible]-01	6.06E 02	1.69E 02	3.96E 01	2.41E 01	6.02E 00	1.05E 01	3.61E-01	1.96E-02	3.26E-03	7.70E-04
		1040	0.[illegible]-01	6.95E 02	1.69E 02	4.65E 01	2.84E 01	1.03E 01	1.13E 01	5.42E-01	2.25E-02	2.86E-03	4.93E-04
		1100	0.[illegible]-01	7.25E 02	1.95E 02	4.13E 01	2.41E 01	1.12E 01	1.05E 01	6.43E-01	3.07E-02	3.39E-03	9.54E-04
		1300	0.[illegible]-01	1.30E 03	5.49E 02	1.87E 02	9.72E 01	6.28E 01	4.29E 01	1.00E 00	7.75E-02	1.68E-02	6.10E-03
		1320	0.[illegible]-01	1.43E 03	6.76E 02	3.21E 02	2.04E 02	1.10E 02	9.49E 01	1.33E 00	1.14E-01	3.11E-02	1.12E-02
		1340	0.[illegible]-01	1.59E 03	6.88E 02	3.61E 02	2.73E 02	1.49E 02	1.30E 02	1.45E 00	1.40E-01	3.81E-02	1.20E-02
		1400	0.[illegible]-01	1.41E 03	6.73E 02	4.60E 02	3.32E 02	1.80E 02	1.33E 02	2.00E 00	1.95E-01	5.76E-02	1.98E-02
		1420	0.[illegible]-01	1.34E 03	8.26E 02	4.34E 02	2.60E 02	1.40E 02	9.64E 01	1.54E 00	2.17E-01	5.90E-02	1.95E-02
		1440	0.[illegible]-01	1.43E 03	9.35E 02	4.98E 02	2.91E 02	1.55E 02	1.02E 02	1.68E 00	2.69E-01	8.44E-02	3.47E-02
78	203	1200	0.00E-01	1.55E 02	4.95E 01	3.44E 01	3.18E 01	7.74E 00	1.43E 01	3.23E-01	8.81E-02	4.38E-02	2.20E-02
		1220	0.00E-01	1.51E 02	6.56E 01	3.70E 01	4.47E 01	9.46E 00	1.73E 01	4.11E-01	9.44E-02	4.07E-02	1.62E-02
		1240	0.00E-01	2.38E 02	9.57E 01	5.59E 01	4.65E 01	2.24E 01	2.71E 01	6.46E-01	2.25E-02	1.03E-02	5.23E-03
		1300	0.00E-01	1.88E 02	7.03E 01	3.27E 01	3.70E 01	1.81E 01	1.28E 01	6.46E-01	8.56E-03	3.29E-03	1.97E-03
		1320	0.00E-01	8.41E 02	2.78E 02	8.78E 01	8.52E 01	4.65E 01	7.45E 01	9.42E-01	1.42E-01	6.07E-02	1.90E-02
78	205	1840	0.[illegible]-01	4.19E 02	1.32E 02	3.79E 01	1.81E 01	1.63E 01	1.58E 01	1.[illegible] 00	1.31E-01	2.[illegible]-02	1.11E-02
		1900	0.[illegible]-01	3.48E 02	1.24E 02	4.56E 01	1.81E 01	9.46E 00	8.28E 00	1.[illegible] 00	1.34E-01	3.[illegible]-02	1.13E-02
		1920	0.[illegible]-01	3.30E 02	9.84E 01	2.58E 01	1.29E 01	1.20E 01	1.28E 01	8.[illegible]-01	8.93E-02	1.[illegible]-02	7.27E-03
		1940	0.[illegible]-01	2.84E 02	8.10E 01	1.38E 01	1.55E 01	8.60E 00	6.02E 00	8.[illegible]-01	1.04E-01	2.[illegible]-02	7.73E-03
		2000	0.[illegible]-01	3.19E 02	9.03E 01	1.72E 01	1.81E 01	8.60E 00	1.20E 01	7.[illegible]-01	8.45E-02	1.[illegible]-02	5.67E-03
		2020	0.[illegible]-01	2.65E 02	7.90E 01	1.98E 01	1.55E 01	6.88E 00	8.28E 00	6.[illegible]-01	7.56E-02	1.[illegible]-02	5.57E-03
		2040	0.[illegible]-01	2.34E 02	8.57E 01	1.55E 01	8.60E 00	4.30E 00	6.02E 00	5.[illegible]-01	6.12E-02	1.[illegible]-02	4.43E-03
		2100	0.[illegible]-01	2.37E 02	8.23E 01	7.74E 00	6.02E 00	9.46E 00	6.78E 00	5.[illegible]-01	6.37E-02	1.[illegible]-02	4.10E-03
		2120	0.[illegible]-01	2.53E 02	8.50E 01	1.63E 01	1.81E 01	6.88E 00	7.53E 00	6.[illegible]-01	8.32E-02	1.[illegible]-02	6.74E-03
		2140	0.[illegible]-01	2.77E 02	8.50E 01	2.06E 01	1.98E 01	6.02E 00	6.78E 00	5.[illegible]-01	7.54E-02	1.[illegible]-02	6.68E-03
78	206	1140	0.[illegible]-01	9.85E 02	3.51E 02	7.92E 01	5.59E 01	2.[illegible] 01	1.[illegible] 01	1.[illegible] 00	1.[illegible]-01	3.85E-02	1.22E-02
		1200	0.[illegible]-01	1.01E 03	3.75E 02	1.02E 02	4.99E 01	2.[illegible] 01	2.[illegible] 01	2.[illegible] 00	2.[illegible]-01	4.59E-02	1.55E-02
		1220	0.[illegible]-01	1.04E 03	3.51E 02	9.89E 01	5.51E 01	2.[illegible] 01	3.[illegible] 01	2.[illegible] 00	2.[illegible]-01	5.03E-02	1.59E-02
		1240	0.[illegible]-01	9.67E 02	4.16E 02	8.63E 01	6.02E 01	3.[illegible] 01	2.[illegible] 01	2.[illegible] 00	2.[illegible]-01	5.22E-02	1.68E-02
		1300	0.[illegible]-01	8.73E 02	3.73E 02	1.08E 02	6.19E 01	3.[illegible] 01	3.[illegible] 01	2.[illegible] 00	2.[illegible]-01	5.33E-02	1.85E-02
		1320	0.[illegible]-01	9.00E 02	3.74E 02	1.02E 02	6.28E 01	4.[illegible] 01	2.[illegible] 01	2.[illegible] 00	2.[illegible]-01	6.06E-02	2.08E-02
		1340	0.[illegible]-01	1.43E 03	4.89E 02	1.20E 02	6.88E 01	5.[illegible] 01	5.[illegible] 01	2.[illegible] 00	2.[illegible]-01	6.61E-02	2.17E-02
		1400	0.[illegible]-01	1.03E 03	4.46E 02	1.14E 02	8.09E 01	4.[illegible] 01	3.[illegible] 01	2.[illegible] 00	3.[illegible]-01	8.83E-02	3.28E-02
		1420	0.[illegible]-01	8.83E 02	4.01E 02	1.17E 02	8.00E 01	4.[illegible] 01	4.[illegible] 01	2.[illegible] 00	3.[illegible]-01	8.73E-02	3.03E-02
		1440	0.[illegible]-01	9.80E 02	4.08E 02	1.08E 02	5.33E 01	4.[illegible] 01	3.[illegible] 01	1.[illegible] 00	1.[illegible]-01	4.31E-02	1.27E-02
		1500	0.[illegible]-01	8.95E 02	3.96E 02	1.16E 02	6.54E 01	3.[illegible] 01	4.[illegible] 01	1.[illegible] 00	1.[illegible]-01	3.47E-02	9.30E-03
		1520	0.[illegible]-01	9.37E 02	3.72E 02	1.03E 02	7.40E 01	4.[illegible] 01	2.[illegible] 01	1.[illegible] 00	1.[illegible]-01	3.63E-02	9.89E-03
		1540	0.[illegible]-01	9.56E 02	3.64E 02	1.11E 02	5.68E 01	3.[illegible] 01	1.[illegible] 01	1.[illegible] 00	1.[illegible]-01	4.54E-02	1.32E-02
78	207	840	0.[illegible]-01	2.[illegible] 02	7.23E 01	1.38E 01	1.03E 01	3.44E 00	4.52E 00	1.31E-01	1.47E-02	2.89E-03	8.01E-04
		900	0.[illegible]-01	3.[illegible] 02	8.03E 01	1.55E 01	3.44E 00	4.30E 00	3.01E 00	1.32E-01	1.66E-02	2.65E-03	9.54E-04
		920	0.[illegible]-01	2.[illegible] 02	8.63E 01	2.06E 01	6.02E 00	2.58E 00	3.76E 00	1.25E-01	1.43E-02	2.37E-03	5.54E-04
		940	0.[illegible]-01	3.[illegible] 02	9.30E 01	1.63E 01	8.60E 00	0.00E-01	2.26E 00	1.66E-01	1.84E-02	3.33E-03	9.54E-04
		1000	0.[illegible]-01	4.[illegible] 02	1.22E 02	2.67E 01	1.55E 01	7.74E 00	6.78E 00	2.30E-01	2.97E-02	6.53E-03	1.85E-03
		1020	0.[illegible]-01	3.[illegible] 02	1.21E 02	2.67E 01	1.29E 01	5.16E 00	5.27E 00	2.30E-01	3.18E-02	6.99E-03	2.34E-03
		1040	0.[illegible]-01	3.[illegible] 02	9.23E 01	2.24E 01	9.46E 00	5.16E 00	4.52E 00	1.81E-01	2.02E-02	3.69E-03	9.54E-04
		1100	0.[illegible]-01	3.[illegible] 02	7.83E 01	1.29E 01	8.60E 00	4.30E 00	3.76E 00	1.44E-01	1.31E-02	2.59E-03	8.31E-04
		1120	0.[illegible]-01	2.[illegible] 02	6.76E 01	1.20E 01	1.03E 01	1.72E 00	3.76E 00	1.50E-01	1.35E-02	2.71E-03	8.62E-04
		1140	0.[illegible]-01	4.[illegible] 02	1.18E 02	2.15E 01	7.74E 00	3.44E 00	0.00E-01	1.06E-01	8.19E-03	9.54E-04	2.77E-04

Table A1b (Continued)

PROGRAM A49GLT: AEROSOL DISTRIBUTION TABULATION (PROCESSED ON 27-APR-81)

NRL6532: ON FITZROY

		RADIUS --->	5.03	5.97	6.93	7.88	8.83	9.78	10.73	11.68	12.63	13.58	14.53
78	201	920	4.62E-04	2.16E-04	1.54E-04	6.16E-05	3.08E-05	0.[illegible]-01	3.08E-05	0.[illegible]-01	0.00E-01	0.00E-01	0.[illegible]-01
		940	7.08E-04	1.23E-04	1.85E-04	1.23E-04	2.16E-04	3.[illegible]-05	3.08E-05	0.[illegible]-01	3.08E-05	0.00E-01	0.[illegible]-01
		1000	6.47E-04	3.08E-04	2.46E-04	6.16E-05	2.16E-04	1.[illegible]-04	3.08E-05	3.[illegible]-05	3.08E-05	0.00E-01	0.[illegible]-01
		1020	5.23E-04	4.62E-04	2.46E-04	2.16E-04	2.77E-04	6.[illegible]-05	1.23E-04	3.[illegible]-05	6.16E-05	3.08E-05	6.[illegible]-05
		1040	3.08E-04	3.39E-04	2.46E-04	1.85E-04	2.16E-04	3.[illegible]-05	3.08E-05	0.[illegible]-01	0.00E-01	0.00E-01	0.[illegible]-01
		1100	2.16E-04	2.77E-04	3.08E-05	9.24E-05	3.08E-05	0.[illegible]-01	0.00E-01	0.[illegible]-01	0.00E-01	3.08E-05	0.[illegible]-01
		1300	3.51E-03	1.48E-03	1.57E-03	7.70E-04	8.62E-04	5.[illegible]-04	1.85E-04	3.[illegible]-04	1.54E-04	1.23E-04	3.[illegible]-05
		1320	6.13E-03	2.93E-03	2.86E-03	2.12E-03	1.32E-03	1.[illegible]-03	6.16E-04	1.[illegible]-03	4.93E-04	4.62E-04	3.[illegible]-04
		1340	6.03E-03	3.63E-03	2.96E-03	2.80E-03	1.35E-03	1.[illegible]-03	1.08E-03	1.[illegible]-03	6.47E-04	3.69E-04	4.[illegible]-04
		1400	8.96E-03	4.56E-03	4.53E-03	3.42E-03	1.63E-03	2.[illegible]-03	1.29E-03	9.[illegible]-04	9.24E-04	4.62E-04	6.[illegible]-04
		1420	8.25E-03	3.82E-03	4.16E-03	1.48E-03	1.05E-03	1.[illegible]-03	6.47E-04	7.[illegible]-04	2.77E-04	3.69E-04	2.[illegible]-04
		1440	1.64E-02	5.85E-03	6.93E-03	3.26E-03	3.05E-03	2.[illegible]-03	1.26E-03	1.[illegible]-03	8.93E-04	8.31E-04	5.[illegible]-04
78	203	1200	8.68E-03	5.05E-03	3.97E-03	3.48E-03	1.66E-03	2.00E-03	1.20E-03	6.16E-04	5.54E-04	4.31E-04	1.85E-04
		1220	6.87E-03	3.57E-03	2.68E-03	1.94E-03	8.01E-04	1.45E-03	8.31E-04	5.23E-04	3.39E-04	1.85E-04	3.69E-04
		1240	3.23E-03	3.66E-03	1.66E-03	3.66E-03	2.12E-03	2.62E-03	2.74E-03	1.76E-03	2.16E-03	2.46E-03	1.39E-03
		1300	1.26E-03	1.11E-03	8.01E-04	1.29E-03	8.31E-04	8.31E-04	1.02E-03	8.62E-04	5.85E-04	8.31E-04	6.16E-04
		1320	7.64E-03	5.76E-03	2.96E-03	4.53E-03	1.57E-03	2.52E-03	2.00E-03	1.02E-03	1.11E-03	7.08E-04	4.93E-04
78	205	1840	6.87E-03	3.88E-03	2.56E-03	2.46E-03	1.26E-03	8.62E-04	3.39E-04	3.08E-04	4.[illegible]-04	1.85E-04	2.[illegible]-04
		1900	7.24E-03	3.36E-03	2.89E-03	1.54E-03	1.60E-03	1.02E-03	8.62E-04	4.62E-04	4.[illegible]-04	2.16E-04	1.[illegible]-04
		1920	3.97E-03	3.23E-03	2.19E-03	1.02E-03	1.08E-03	7.70E-04	4.00E-04	4.93E-04	1.[illegible]-04	1.23E-04	9.[illegible]-05
		1940	4.68E-03	2.28E-03	1.69E-03	1.08E-03	8.93E-04	5.54E-04	4.00E-04	1.85E-04	3.[illegible]-04	1.23E-04	1.[illegible]-04
		2000	2.80E-03	1.76E-03	1.02E-03	6.77E-04	4.93E-04	4.93E-04	1.85E-04	3.08E-04	6.[illegible]-05	6.16E-05	3.[illegible]-05
		2020	2.96E-03	1.72E-03	7.70E-04	7.08E-04	3.69E-04	3.08E-04	2.16E-04	6.16E-05	9.[illegible]-05	6.16E-05	1.[illegible]-04
		2040	2.06E-03	1.54E-03	7.39E-04	7.70E-04	2.77E-04	1.85E-04	1.54E-04	3.08E-05	9.[illegible]-05	0.00E-01	3.[illegible]-05
		2100	2.96E-03	2.00E-03	7.39E-04	5.23E-04	1.85E-04	4.31E-04	3.69E-04	6.16E-05	6.[illegible]-05	6.16E-05	0.[illegible]-01
		2120	3.42E-03	1.79E-03	1.32E-03	1.23E-03	7.70E-04	5.23E-04	5.54E-04	1.85E-04	2.[illegible]-04	4.00E-04	1.[illegible]-04
		2140	3.82E-03	2.59E-03	1.45E-03	1.20E-03	9.24E-04	6.47E-04	2.77E-04	3.08E-04	2.[illegible]-04	1.85E-04	1.[illegible]-04
78	206	1140	7.76E-03	4.06E-03	2.68E-03	2.12E-03	1.57E-03	1.[illegible]-03	8.62E-04	4.[illegible]-04	4.93E-04	2.16E-04	1.[illegible]-04
		1200	9.88E-03	5.67E-03	4.00E-03	2.59E-03	2.00E-03	1.[illegible]-03	7.08E-04	6.[illegible]-04	6.77E-04	3.08E-04	2.[illegible]-04
		1220	9.85E-03	5.02E-03	4.37E-03	3.42E-03	1.85E-03	1.[illegible]-03	1.02E-03	7.[illegible]-04	6.16E-04	3.69E-04	2.[illegible]-04
		1240	1.02E-02	5.96E-03	3.87E-03	2.90E-03	2.90E-03	1.[illegible]-03	1.53E-03	6.[illegible]-04	4.99E-04	3.12E-04	1.[illegible]-04
		1300	1.08E-02	6.93E-03	4.18E-03	3.21E-03	2.43E-03	1.[illegible]-03	1.06E-03	8.[illegible]-04	5.93E-04	3.43E-04	3.[illegible]-04
		1320	1.21E-02	6.49E-03	5.06E-03	3.37E-03	2.40E-03	1.[illegible]-03	1.78E-03	9.[illegible]-04	9.99E-04	5.62E-04	2.[illegible]-04
		1340	1.36E-02	6.74E-03	5.15E-03	3.74E-03	3.21E-03	2.[illegible]-03	1.97E-03	8.[illegible]-04	1.03E-03	7.18E-04	6.[illegible]-04
		1400	2.00E-02	1.13E-02	8.46E-03	5.59E-03	4.65E-03	3.[illegible]-03	3.18E-03	2.[illegible]-03	1.47E-03	1.06E-03	1.[illegible]-03
		1420	1.81E-02	1.05E-02	7.71E-03	5.21E-03	4.65E-03	3.[illegible]-03	2.62E-03	2.[illegible]-03	1.62E-03	9.36E-04	1.[illegible]-03
		1440	6.62E-03	3.87E-03	2.93E-03	1.87E-03	1.87E-03	1.[illegible]-03	8.43E-04	7.[illegible]-04	5.62E-04	7.18E-04	3.[illegible]-04
		1500	4.96E-03	2.56E-03	2.09E-03	1.56E-03	1.28E-03	1.[illegible]-03	9.67E-04	7.[illegible]-04	7.49E-04	5.62E-04	2.[illegible]-04
		1520	6.74E-03	3.18E-03	2.87E-03	2.15E-03	1.90E-03	1.[illegible]-03	1.65E-03	9.[illegible]-04	9.36E-04	9.67E-04	5.[illegible]-04
		1540	6.43E-03	4.74E-03	3.46E-03	2.90E-03	2.84E-03	2.[illegible]-03	2.75E-03	1.[illegible]-03	1.90E-03	1.09E-03	8.[illegible]-04
78	207	840	3.39E-04	3.69E-04	9.24E-05	1.85E-04	0.[illegible]-01	3.08E-05	6.16E-05	3.08E-05	0.00E-01	0.00E-01	0.00E-01
		900	2.77E-04	2.16E-04	1.54E-04	9.24E-05	3.[illegible]-05	0.00E-01	0.00E-01	6.16E-05	0.00E-01	3.08E-05	0.00E-01
		920	1.85E-04	1.54E-04	6.16E-05	9.24E-05	3.[illegible]-05	9.24E-05	0.00E-01	3.08E-05	0.00E-01	0.00E-01	0.00E-01
		940	5.85E-04	1.85E-04	9.24E-05	6.16E-05	3.[illegible]-05	6.16E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	3.08E-05
		1000	1.02E-03	9.24E-05	4.93E-04	2.46E-04	3.[illegible]-04	1.85E-04	3.08E-05	0.00E-01	6.16E-05	0.00E-01	3.08E-05
		1020	1.69E-03	5.85E-04	8.01E-04	2.46E-04	3.[illegible]-04	3.08E-04	6.16E-05	9.24E-05	3.08E-05	3.08E-05	0.00E-01
		1040	7.70E-04	2.46E-04	1.85E-04	1.23E-04	9.[illegible]-05	1.85E-04	3.08E-05	6.16E-05	9.24E-05	3.08E-05	0.00E-01
		1100	4.31E-04	1.54E-04	1.85E-04	1.23E-04	6.[illegible]-05	3.08E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	3.08E-05
		1120	4.00E-04	1.54E-04	1.85E-04	1.54E-04	6.[illegible]-05	6.16E-05	0.00E-01	0.00E-01	3.08E-05	0.00E-01	0.00E-01
		1140	3.39E-04	3.08E-05	9.24E-05	6.16E-05	3.[illegible]-05	3.08E-05	0.00E-01	0.00E-01	0.00E-01	0.00E-01	0.00E-01

Table A1c — Twenty-Minute Averages of dN/dR (cm^{-3} μm^{-1}) vs Radius (μm)

PROGRAM A49GLT: AEROSOL DISTRIBUTION TABULATION (PROCESSED ON 27-APR-81)

NPL6532: ON FITZROY

		RADIUS --->	0.12	0.15	0.18	0.22	0.26	0.29	0.33	1.23	2.18	3.12	4.08
78	207	1200	0.00E-01	3.[illegible] 02	5.55E 01	9.46E 00	5.16E 00	4.30E 00	3.[illegible] 00	1.21E-01	1.14E-02	1.88E-03	8.01E-04
		1220	0.00E-01	4.[illegible] 02	8.57E 01	9.46E 00	8.60E 00	0.00E-01	2.[illegible] 00	2.10E-01	2.71E-02	5.76E-03	2.28E-03
		1240	0.00E-01	2.[illegible] 02	6.49E 01	1.89E 01	7.74E 00	3.44E 00	6.[illegible] 00	2.76E-01	2.49E-02	4.93E-03	2.00E-03
		1340	0.00E-01	1.[illegible] 02	4.48E 01	1.72E 01	8.60E 00	6.02E 00	4.[illegible] 00	2.83E-01	2.41E-02	5.51E-03	2.43E-03
		1400	0.00E-01	1.[illegible] 02	5.62E 01	1.38E 01	4.30E 00	6.02E 00	6.[illegible] 00	2.94E-01	2.70E-02	6.03E-03	2.09E-03
		1420	0.00E-01	3.[illegible] 02	1.79E 02	8.43E 01	3.79E 01	2.32E 01	1.[illegible] 01	4.25E-01	3.28E-02	7.20E-03	2.89E-03
		1440	0.00E-01	5.[illegible] 02	3.11E 02	9.89E 01	4.90E 01	2.24E 01	1.[illegible] 01	5.58E-01	3.57E-02	6.59E-03	2.65E-03
		1500	0.00E-01	5.[illegible] 02	2.62E 02	1.54E 02	7.31E 01	3.27E 01	2.[illegible] 01	5.42E-01	4.05E-02	8.25E-03	2.77E-03
		1520	0.00E-01	7.[illegible] 02	4.89E 02	2.07E 02	1.10E 02	4.47E 01	2.[illegible] 01	7.39E-01	5.76E-02	1.01E-02	3.54E-03
		1540	0.00E-01	7.[illegible] 02	3.80E 02	1.43E 02	6.11E 01	2.93E 01	2.[illegible] 01	5.72E-01	3.55E-02	5.57E-03	1.66E-03
		1600	0.00E-01	5.[illegible] 02	2.79E 02	8.69E 01	4.47E 01	2.24E 01	1.[illegible] 01	4.75E-01	3.11E-02	4.99E-03	1.32E-03
		1620	0.00E-01	3.[illegible] 02	1.79E 02	7.66E 01	2.84E 01	1.89E 01	1.[illegible] 01	3.66E-01	2.48E-02	3.45E-03	1.08E-03
		1640	0.00E-01	3.[illegible] 02	1.13E 02	5.08E 01	2.58E 01	6.02E 00	1.[illegible] 01	3.34E-01	2.15E-02	3.69E-03	9.24E-04
78	208	820	0.[illegible] -01	1.[illegible] 02	4.[illegible] 01	1.[illegible] 01	4.30E 00	2.[illegible] 00	7.[illegible]-01	6.[illegible] -02	3.[illegible] -03	1.[illegible] -04	6.[illegible] -05
		840	0.[illegible]-01	1.[illegible] 02	7.[illegible] 01	2.[illegible] 01	5.16E 00	6.[illegible] 00	2.[illegible] 00	1.[illegible] -01	5.[illegible] -03	8.[illegible] -04	3.[illegible] -05
		900	0.[illegible] -01	2.[illegible] 02	1.[illegible] 02	2.[illegible] 01	9.46E 00	5.[illegible] 00	4.[illegible] 00	1.[illegible] -01	8.[illegible] -03	1.[illegible] -03	3.[illegible] -04
		920	0.[illegible] -01	3.[illegible] 02	1.[illegible] 02	3.[illegible] 01	1.38E 01	1.[illegible] 01	4.[illegible] 00	1.[illegible] -01	8.[illegible] -03	1.[illegible] -03	2.[illegible] -04
		940	0.[illegible] -01	3.[illegible] 02	1.[illegible] 02	2.[illegible] 01	1.12E 01	1.[illegible] 01	4.[illegible] 00	2.[illegible] -01	1.[illegible] -02	1.[illegible] -03	5.[illegible] -04
		1000	0.[illegible] -01	2.[illegible] 02	8.[illegible] 01	2.[illegible] 01	6.88E 00	3.[illegible] 00	1.[illegible] 00	1.[illegible] -01	7.[illegible] -03	1.[illegible] -03	5.[illegible] -04
		1020	0.[illegible]-01	2.[illegible] 02	4.[illegible] 01	8.[illegible] 00	6.02E 00	8.[illegible] -01	3.[illegible] 00	1.[illegible] -01	9.[illegible] -03	2.[illegible] -03	1.[illegible] -03
		1040	0.[illegible] -01	2.[illegible] 02	8.[illegible] 01	2.[illegible] 01	6.02E 00	6.[illegible] 00	3.[illegible] 00	1.[illegible] -01	7.[illegible] -03	1.[illegible] -03	4.[illegible] -04
		1100	0.[illegible] -01	3.[illegible] 02	1.[illegible] 02	4.[illegible] 01	2.24E 01	8.[illegible] 00	3.[illegible] 00	1.[illegible] -01	7.[illegible] -03	1.[illegible] -03	1.[illegible] -04
		1120	0.[illegible] -01	6.[illegible] 02	3.[illegible] 02	1.[illegible] 02	4.30E 01	1.[illegible] 01	1.[illegible] 01	3.[illegible] -01	1.[illegible] -02	1.[illegible] -03	9.[illegible] -05
		1220	0.[illegible] -01	1.[illegible] 03	4.[illegible] 02	1.[illegible] 02	4.99E 01	2.[illegible] 01	2.[illegible] 01	6.[illegible] -01	4.[illegible] -02	6.[illegible] -03	2.[illegible] -03
		1240	0.[illegible] -01	1.[illegible] 03	5.[illegible] 02	1.[illegible] 02	6.19E 01	2.[illegible] 01	2.[illegible] 01	6.[illegible] -01	4.[illegible] -02	6.[illegible] -03	1.[illegible] -03
		1300	0.[illegible] -01	1.[illegible] 03	6.[illegible] 02	1.[illegible] 02	8.00E 01	2.[illegible] 01	1.[illegible] 01	6.[illegible] -01	4.[illegible] -02	7.[illegible] -03	2.[illegible] -03
		1320	0.[illegible] -01	1.[illegible] 03	4.[illegible] 02	1.[illegible] 02	5.25E 01	2.[illegible] 01	1.[illegible] 01	7.[illegible] -01	4.[illegible] -02	7.[illegible] -03	1.[illegible] -03
		1340	0.[illegible] -01	9.[illegible] 02	3.[illegible] 02	5.[illegible] 01	2.84E 01	1.[illegible] 01	1.[illegible] 01	7.[illegible] -01	4.[illegible] -02	6.[illegible] -03	1.[illegible] -03
		1400	0.[illegible] -01	9.[illegible] 02	2.[illegible] 02	4.[illegible] 01	2.93E 01	1.[illegible] 01	1.[illegible] 01	6.[illegible] -01	4.[illegible] -02	5.[illegible] -03	1.[illegible] -03
		1420	0.[illegible] -01	8.[illegible] 02	2.[illegible] 02	5.[illegible] 01	2.49E 01	1.[illegible] 01	1.[illegible] 01	7.[illegible] -01	4.[illegible] -02	4.[illegible] -03	1.[illegible] -03
		1440	0.[illegible] -01	9.[illegible] 02	2.[illegible] 02	6.[illegible] 01	3.44E 01	1.[illegible] 01	1.[illegible] 01	7.[illegible] -01	4.[illegible] -02	5.[illegible] -03	2.[illegible] -03
		1500	0.[illegible] -01	9.[illegible] 02	2.[illegible] 02	5.[illegible] 01	3.18E 01	2.[illegible] 01	1.[illegible] 01	7.[illegible] -01	4.[illegible] -02	6.[illegible] -03	2.[illegible] -03
		1520	0.[illegible] -01	7.[illegible] 02	2.[illegible] 02	5.[illegible] 01	3.36E 01	1.[illegible] 01	9.[illegible] 00	8.[illegible] -01	5.[illegible] -02	7.[illegible] -03	2.[illegible] -03
		1540	0.[illegible] -01	7.[illegible] 02	1.[illegible] 02	4.[illegible] 01	2.24E 01	9.[illegible] 00	1.[illegible] 01	8.[illegible] -01	5.[illegible] -02	8.[illegible] -03	2.[illegible] -03
		1600	0.[illegible] -01	6.[illegible] 02	1.[illegible] 02	4.[illegible] 01	2.32E 01	1.[illegible] 01	1.[illegible] 01	8.[illegible] -01	5.[illegible] -02	8.[illegible] -03	2.[illegible] -03
		1620	0.[illegible] -01	6.[illegible] 02	1.[illegible] 02	3.[illegible] 01	2.24E 01	1.[illegible] 01	1.[illegible] 01	8.[illegible] -01	5.[illegible] -02	9.[illegible] -03	2.[illegible] -03
		1640	0.[illegible] -01	5.[illegible] 02	1.[illegible] 02	3.[illegible] 01	2.84E 01	1.[illegible] 01	9.[illegible] 00	8.[illegible] -01	4.[illegible] -02	8.[illegible] -03	3.[illegible] -03
		1700	0.[illegible] -01	5.[illegible] 02	1.[illegible] 02	4.[illegible] 01	2.49E 01	7.[illegible] 00	8.[illegible] 00	7.[illegible] -01	5.[illegible] -02	9.[illegible] -03	3.[illegible] -03
		1720	0.[illegible] -01	4.[illegible] 02	1.[illegible] 02	3.[illegible] 01	1.72E 01	1.[illegible] 01	9.[illegible] 00	6.[illegible] -01	4.[illegible] -02	8.[illegible] -03	3.[illegible] -03
		1740	0.[illegible] -01	4.[illegible] 02	1.[illegible] 02	2.[illegible] 01	1.12E 01	6.[illegible] 00	8.[illegible] 00	5.[illegible] -01	3.[illegible] -02	7.[illegible] -03	2.[illegible] -03
		1800	0.[illegible] -01	4.[illegible] 02	9.[illegible] 01	2.[illegible] 01	1.38E 01	5.[illegible] 00	6.[illegible] 00	5.[illegible] -01	4.[illegible] -02	7.[illegible] -03	1.[illegible] -03
		1820	0.[illegible] -01	4.[illegible] 02	1.[illegible] 02	2.[illegible] 01	1.12E 01	6.[illegible] 00	7.[illegible] 00	4.[illegible] -01	3.[illegible] -02	5.[illegible] -03	1.[illegible] -03
		1840	0.[illegible] -01	4.[illegible] 02	1.[illegible] 02	2.[illegible] 01	1.81E 01	9.[illegible] 00	1.[illegible] 01	4.[illegible] -01	3.[illegible] -02	5.[illegible] -03	1.[illegible] -03
		1900	0.[illegible] -01	5.[illegible] 02	1.[illegible] 02	2.[illegible] 01	1.98E 01	1.[illegible] 01	6.[illegible] 00	5.[illegible] -01	3.[illegible] -02	5.[illegible] -03	1.[illegible] -03
		1920	0.[illegible] -01	6.[illegible] 02	1.[illegible] 02	2.[illegible] 01	1.72E 01	6.[illegible] 00	8.[illegible] 00	5.[illegible] -01	4.[illegible] -02	6.[illegible] -03	2.[illegible] -03
		1940	0.[illegible] -01	7.[illegible] 02	2.[illegible] 02	3.[illegible] 01	1.98E 01	1.[illegible] 01	1.[illegible] 01	5.[illegible] -01	4.[illegible] -02	6.[illegible] -03	2.[illegible] -03
		2000	0.[illegible] -01	8.[illegible] 02	2.[illegible] 02	3.[illegible] 01	1.74E 01	1.[illegible] 01	6.[illegible] 00	5.[illegible] -01	4.[illegible] -02	7.[illegible] -03	1.[illegible] -03
		2020	0.[illegible] -01	9.[illegible] 02	2.[illegible] 02	3.[illegible] 01	2.41E 01	1.[illegible] 01	9.[illegible] 00	5.[illegible] -01	4.[illegible] -02	8.[illegible] -03	2.[illegible] -03
		2040	0.[illegible] -01	1.[illegible] 03	3.[illegible] 02	8.[illegible] 01	3.36E 01	1.[illegible] 01	1.[illegible] 01	7.[illegible] -01	6.[illegible] -02	1.[illegible] -02	3.37E-03
		2100	0.[illegible] -01	1.[illegible] 03	2.[illegible] 02	7.[illegible] 01	3.87E 01	1.[illegible] 01	1.[illegible] 01	7.[illegible] -01	6.[illegible] -02	1.[illegible] -02	3.53E-03
78	209	1100	0.00E-01	4.85E 02	1.41E 02	3.70E 01	2.06E 01	1.38E 01	9.79E 00	1.02E 00	1.19E-01	2.16E-02	7.33E-03
		1120	0.00E-01	4.01E 02	7.29E 01	2.75E 01	1.20E 01	1.03E 01	6.78E 00	7.08E-01	6.55E-02	1.07E-02	2.86E-03

Table A1c (Continued)

PROGRAM A49GLT: AEROSOL DISTRIBUTION TABULATION (PROCESSED ON 27-APR-81)

NRL6532: ON FITZROY

			RADIUS --->	5.03	5.97	6.93	7.88	8.83	9.78	10.73	11.68	12.63	13.58	14.53
78	207	1200	4. -04	2.16E-04	9.24E-05	1. -04	1.54E-04	6.16E-05	3.08E-05	9.24E-05	0.00E-01	3.08E-05	3.08E-05
		1220	1. -03	5.23E-04	7.70E-04	3. -04	4.62E-04	3.69E-04	2.77E-04	1.23E-04	3.08E-05	3.08E-05	3.08E-05
		1240	9. -04	4.31E-04	4.62E-04	2. -04	6.16E-05	1.23E-04	1.54E-04	0.00E-01	0.00E-01	3.08E-05	3.08E-05
		1340	1. -03	5.23E-04	8.62E-04	1. -04	1.23E-04	3.08E-04	2.46E-04	1.23E-04	1.85E-04	0.00E-01	3.08E-05
		1400	1. -03	4.62E-04	8.31E-04	1. -04	1.85E-04	2.16E-04	1.23E-04	1.23E-04	9.24E-05	3.08E-05	3.08E-05
		1420	2. -03	9.54E-04	4.62E-04	7. -04	3.39E-04	4.62E-04	2.77E-04	1.54E-04	9.24E-05	3.08E-05	6.16E-05
		1440	2. -03	4.62E-04	7.70E-04	6. -04	2.16E-04	5.23E-04	1.85E-04	9.24E-05	0.00E-01	1.23E-04	3.08E-05
		1500	1. -03	6.77E-04	8.31E-04	3. -04	2.46E-04	2.46E-04	9.24E-05	3.08E-05	1.23E-04	6.16E-05	3.08E-05
		1520	1. -03	7.70E-04	4.93E-04	3. -04	1.54E-04	1.85E-04	1.23E-04	6.16E-05	1.23E-04	0.00E-01	0.00E-01
		1540	7. -04	4.62E-04	2.16E-04	2. -04	6.16E-05	3.08E-05	3.08E-05	1.54E-04	0.00E-01	3.08E-05	3.08E-05
		1600	5. -04	1.23E-04	2.16E-04	1. -04	6.16E-05	9.24E-05	3.08E-05	0.00E-01	0.00E-01	0.00E-01	3.08E-05
		1620	6. -04	2.77E-04	2.46E-04	2. -04	6.16E-05	1.23E-04	6.16E-05	6.16E-05	0.00E-01	0.00E-01	0.00E-01
		1640	4. -04	4.93E-04	2.16E-04	6. -05	6.16E-05	0.00E-01	0.00E-01	6.16E-05	0.00E-01	3.08E-05	0.00E-01
78	208	820	9. -05	3. -05	3. -05	0.00E-01	6.16E-05	3. -05	0. -01	0. -01	3. -05	0. -01	3. -05
		840	6. -05	3. -05	9. -05	3.08E-05	3.08E-05	3. -05	0. -01	0. -01	3. -05	0. -01	0. -01
		900	2. -04	9. -05	1. -04	9.24E-05	9.24E-05	0. -01	0. -01	6. -05	0. -01	0. -01	0. -01
		920	2. -04	0. -01	1. -04	3.08E-05	3.08E-05	3. -05	6. -05	3. -05	0. -01	0. -01	0. -01
		940	3. -04	1. -04	1. -04	6.16E-05	9.24E-05	1. -04	6. -05	0. -01	3. -05	0. -01	0. -01
		1000	1. -04	6. -05	9. -05	3.08E-05	3.08E-05	0. -01	3. -05	0. -01	0. -01	0. -01	0. -01
		1020	9. -04	4. -04	5. -04	4.00E-04	3.08E-04	2. -04	6. -05	2. -04	1. -04	9. -05	6. -05
		1040	3. -04	2. -04	1. -04	1.23E-04	9.24E-05	9. -05	3. -05	6. -05	0. -01	0. -01	0. -01
		1100	1. -04	6. -05	3. -05	6.16E-05	1.23E-04	6. -05	0. -01	0. -01	3. -05	0. -01	3. -05
		1120	0. -01	3. -05	0. -01	3.08E-05	3.08E-05	0. -01	0. -01	0. -01	0. -01	0. -01	0. -01
		1220	1. -03	2. -04	5. -04	1.54E-04	2.16E-04	9. -05	6. -05	0. -01	0. -01	3. -05	9. -05
		1240	8. -04	3. -04	4. -04	9.24E-05	2.77E-04	1. -04	3. -05	9. -05	0. -01	6. -05	0. -01
		1300	1. -03	4. -04	4. -04	2.46E-04	1.85E-04	6. -05	1. -04	1. -04	3. -05	3. -05	0. -01
		1320	1. -03	5. -04	3. -04	2.16E-04	2.46E-04	9. -05	6. -05	6. -05	0. -01	3. -05	6. -05
		1340	9. -04	7. -04	2. -04	3.08E-04	1.54E-04	9. -05	9. -05	6. -05	0. -01	0. -01	0. -01
		1400	8. -04	8. -04	1. -04	1.54E-04	2.46E-04	3. -05	6. -05	3. -05	9. -05	0. -01	3. -05
		1420	8. -04	3. -04	2. -04	1.85E-04	2.46E-04	1. -04	3. -05	0. -01	6. -05	0. -01	3. -05
		1440	1. -03	4. -04	5. -04	4.31E-04	3.39E-04	1. -04	1. -04	6. -05	6. -05	6. -05	0. -01
		1500	8. -04	4. -04	2. -04	1.85E-04	1.23E-04	6. -05	6. -05	9. -05	6. -05	0. -01	0. -01
		1520	1. -03	1. -03	6. -04	4.00E-04	2.16E-04	2. -04	9. -05	6. -05	6. -05	0. -01	0. -01
		1540	1. -03	1. -03	6. -04	3.08E-04	1.54E-04	2. -04	1. -04	1. -04	3. -05	9. -05	0. -01
		1600	1. -03	1. -03	8. -04	5.54E-04	3.69E-04	1. -04	9. -05	1. -04	3. -05	1. -04	0. -01
		1620	2. -03	1. -03	7. -04	5.54E-04	7.08E-04	1. -04	6. -05	2. -04	0. -01	3. -05	9. -05
		1640	1. -03	8. -04	7. -04	3.39E-04	2.77E-04	1. -04	2. -04	1. -04	0. -01	9. -05	0. -01
		1700	2. -03	1. -03	1. -03	1.20E-03	7.08E-04	5. -04	3. -04	2. -04	2. -04	6. -05	9. -05
		1720	1. -03	1. -03	4. -04	6.77E-04	3.08E-04	3. -04	3. -04	1. -04	9. -05	3. -05	3. -05
		1740	1. -03	8. -04	3. -04	5.23E-04	2.46E-04	1. -04	3. -05	3. -05	0. -01	3. -05	3. -05
		1800	1. -03	6. -04	4. -04	4.31E-04	1.85E-04	9. -05	1. -04	3. -05	3. -05	0. -01	0. -01
		1820	1. -03	6. -04	4. -04	2.77E-04	1.23E-04	2. -04	3. -05	0. -01	9. -05	3. -05	0. -01
		1840	1. -03	6. -04	3. -04	2.46E-04	1.54E-04	1. -04	9. -05	3. -05	3. -05	3. -05	0. -01
		1900	1. -03	9. -04	4. -04	4.93E-04	2.16E-04	2. -04	6. -05	3. -05	1. -04	3. -05	0. -01
		1920	1. -03	7. -04	6. -04	2.16E-04	3.39E-04	1. -04	1. -04	9. -05	0. -01	6. -05	3. -05
		1940	1. -03	7. -04	4. -04	4.62E-04	3.39E-04	2. -04	1. -04	1. -04	6. -05	0. -01	3. -05
		2000	9. -04	5. -04	3. -04	2.81E-04	9.36E-05	1. -04	1. -04	6. -05	3. -05	3. -05	0. -01
		2020	1. -03	6. -04	4. -04	1.25E-04	2.18E-04	1. -04	0. -01	3. -05	6. -05	0. -01	0. -01
		2040	2. -03	7. -04	8. -04	3.74E-04	4.68E-04	3. -04	1. -04	1. -04	1. -04	3. -05	3. -05
		2100	2. -03	1. -03	9. -04	5.30E-04	3.43E-04	2. -04	1. -04	9. -05	1. -04	3. -05	0. -01
78	209	1100	4.71E-03	2.16E-03	1.91E-03	8.93E-04	8.62E-04	4.93E-04	3.39E-04	3.69E-04	2.16E-04	9.24E-05	6.16E-05
		1120	1.02E-03	4.31E-04	3.69E-04	9.24E-05	1.23E-04	3.08E-05	6.16E-05	0.00E-01	3.08E-05	0.00E-01	3.08E-05

Table A1d — Twenty-Minute Averages of dN/dR (cm^{-3} μm^{-1}) vs Radius (μm)

PROGRAM A49GLT: AEROSOL DISTRIBUTION TABULATION (PROCESSED ON 27-APR-81)

NRL6532: ON FITZROY

RADIUS --->		0.12	0.15	0.18	0.22	0.26	0.29	0.33	1.23	2.18	3.12	4.08
78 209	1140	0.00E-01	3.64E 02	9.77E 01	3.27E 01	1.81E 01	1.20E 01	1.20E 01	7.68E-01	7.31E-02	1.23E-02	4.00E-03
	1200	0.00E-01	5.22E 02	1.49E 02	3.96E 01	2.41E 01	1.63E 01	1.28E 01	1.15E 00	1.13E-01	2.18E-02	7.64E-03
	1220	0.00E-01	4.89E 02	1.40E 02	3.01E 01	2.24E 01	1.12E 01	9.79E 00	1.02E 00	9.79E-02	1.72E-02	5.42E-03
	1240	0.00E-01	4.41E 02	1.11E 02	2.58E 01	1.46E 01	9.46E 00	1.28E 01	7.91E-01	7.40E-02	1.42E-02	4.16E-03
	1300	0.00E-01	3.71E 02	8.70E 01	2.75E 01	1.72E 01	8.60E 00	7.53E 00	6.57E-01	5.89E-02	9.21E-03	3.08E-03
	1320	0.00E-01	3.67E 02	9.77E 01	1.98E 01	9.46E 00	5.16E 00	3.76E 00	6.73E-01	6.01E-02	1.07E-02	3.14E-03
	1340	0.00E-01	3.66E 02	9.77E 01	1.63E 01	1.55E 01	7.74E 00	7.53E 00	7.54E-01	7.26E-02	1.30E-02	4.99E-03
	1400	0.00E-01	2.84E 02	9.43E 01	2.32E 01	1.89E 01	1.55E 01	9.79E 00	7.08E-01	6.97E-02	1.18E-02	4.40E-03
	1420	0.00E-01	3.66E 02	9.84E 01	2.75E 01	1.81E 01	1.29E 01	5.27E 00	7.46E-01	7.98E-02	1.37E-02	5.30E-03
	1440	0.00E-01	3.48E 02	1.04E 02	2.15E 01	1.29E 01	1.20E 01	7.53E 00	7.56E-01	7.99E-02	1.47E-02	4.43E-03
	1500	0.00E-01	3.85E 02	1.00E 02	3.79E 01	1.98E 01	1.12E 01	1.73E 01	8.00E-01	8.88E-02	1.45E-02	4.99E-03
	1520	0.00E-01	4.01E 02	1.24E 02	3.96E 01	2.24E 01	7.74E 00	8.28E 00	8.26E-01	8.53E-02	1.52E-02	4.62E-03
	1540	0.00E-01	4.19E 02	1.25E 02	2.41E 01	1.63E 01	1.38E 01	1.13E 01	7.79E-01	8.19E-02	1.42E-02	4.68E-03
	1600	0.00E-01	5.65E 02	1.56E 02	3.79E 01	2.32E 01	1.20E 01	7.53E 00	8.95E-01	8.69E-02	1.58E-02	4.99E-03
	1620	0.00E-01	5.71E 02	1.59E 02	4.39E 01	2.24E 01	9.46E 00	1.51E 01	1.09E 00	1.09E-01	2.00E-02	6.56E-03
78 210	820	0.00E-01	3. 02	1.17E 02	3. 01	2.53E 01	2. 01	1.30E 01	5.19E 00	1.01E 00	1.19E-01	3. -02
	840	0.00E-01	2. 02	9.17E 01	3. 01	2.93E 01	1. 01	8.28E 00	1.39E 00	1.44E-01	2.89E-02	8. -03
	900	0.00E-01	2. 02	1.06E 02	4. 01	1.81E 01	1. 01	1.36E 01	1.30E 00	1.36E-01	2.82E-02	8. -03
	920	0.00E-01	3. 02	1.09E 02	2. 01	2.67E 01	1. 01	1.43E 01	1.56E 00	1.83E-01	4.06E-02	1. -02
	940	0.00E-01	3. 02	1.21E 02	3. 01	2.58E 01	1. 01	1.13E 01	1.47E 00	2.09E-01	5.89E-02	2. -02
	1000	0.00E-01	3. 02	9.77E 01	3. 01	2.84E 01	9. 00	1.43E 01	1.31E 00	1.33E-01	3.03E-02	9. -03
	1020	0.00E-01	3. 02	1.06E 02	2. 01	2.41E 01	1. 01	1.05E 01	1.10E 00	1.06E-01	2.17E-02	7. -03
	1040	0.00E-01	3. 02	1.08E 02	2. 01	1.98E 01	7. 00	6.02E 00	1.11E 00	1.20E-01	2.76E-02	8. -03
	1100	0.00E-01	3. 02	8.77E 01	2. 01	2.15E 01	1. 01	7.53E 00	1.08E 00	1.15E-01	2.40E-02	8. -03
	1140	0.00E-01	3. 02	8.63E 01	3. 01	2.32E 01	1. 01	1.20E 01	1.06E 00	1.07E-01	2.07E-02	7. -03
	1200	0.00E-01	3. 02	1.33E 02	3. 01	2.32E 01	8. 00	8.28E 00	1.06E 00	1.07E-01	2.28E-02	7. -03
	1220	0.00E-01	3. 02	1.10E 02	2. 01	2.24E 01	1. 01	1.36E 01	1.01E 00	1.04E-01	2.17E-02	7. -03
	1240	0.00E-01	3. 02	1.04E 02	3. 01	1.98E 01	1. 01	1.20E 01	9.03E-01	9.48E-02	1.96E-02	6. -03
	1300	0.00E-01	3. 02	1.18E 02	2. 01	1.89E 01	2. 01	1.13E 01	8.56E-01	8.45E-02	1.72E-02	7. -03
	1320	0.00E-01	3. 02	1.08E 02	3. 01	2.24E 01	9. 00	4.52E 00	8.77E-01	8.69E-02	1.82E-02	6. -03
	1340	0.00E-01	5. 02	1.63E 02	2. 01	2.24E 01	1. 01	1.81E 01	7.14E-01	7.61E-02	1.61E-02	6. -03
	1400	0.00E-01	3. 02	1.02E 02	2. 01	1.29E 01	1. 01	6.78E 00	7.36E-02	1.58E-02	5. -03
	1420	0.00E-01	4. 02	1.43E 02	3. 01	2.24E 01	1. 01	6.78E 00	6.92E-01	6.12E-02	1.31E-02	5. -03
	1440	0.00E-01	5. 02	1.73E 02	4. 01	3.18E 01	1. 01	1.13E 01	8.74E-01	7.97E-02	1.62E-02	6. -03
	1500	0.00E-01	8. 02	2.45E 02	6. 01	3.18E 01	2. 01	1.58E 01	1.22E 00	1.01E-01	2.01E-02	6. -03
78 211	840	0.00E-01	1. 03	7.68E 02	2. 02	1.29E 02	4. 01	2.86E 01	1.82E 00	2.27E-01	5.82E-02	2.04E-02
	900	0.00E-01	1. 03	6.92E 02	2. 02	1.02E 02	4. 01	2.86E 01	1.46E 00	1.56E-01	3.00E-02	9.70E-03
	920	0.00E-01	1. 03	7.53E 02	2. 02	1.17E 02	6. 01	2.86E 01	1.55E 00	1.83E-01	4.23E-02	1.54E-02
	940	0.00E-01	1. 03	6.30E 02	1. 02	8.69E 01	3. 01	2.11E 01	1.24E 00	1.37E-01	2.96E-02	9.27E-03
	1000	0.00E-01	1. 03	6.63E 02	2. 02	9.12E 01	3. 01	2.41E 01	1.20E 00	1.40E-01	3.29E-02	9.82E-03
	1020	0.00E-01	1. 03	5.87E 02	1. 02	8.43E 01	3. 01	2.48E 01	1.14E 00	1.33E-01	3.18E-02	1.01E-02
	1040	0.00E-01	1. 03	5.84E 02	1. 02	8.86E 01	3. 01	1.88E 01	1.06E 00	1.35E-01	3.21E-02	9.85E-03
	1100	0.00E-01	1. 03	6.06E 02	1. 02	8.78E 01	3. 01	2.48E 01	9.61E-01	1.13E-01	2.47E-02	9.27E-03
	1200	0.00E-01	1. 03	4.77E 02	1. 02	6.54E 01	3. 01	1.81E 01	7.70E-01	7.04E-02	1.41E-02	4.62E-03
	1220	0.00E-01	1. 03	4.70E 02	1. 02	4.90E 01	2. 01	1.28E 01	7.53E-01	6.66E-02	1.20E-02	3.45E-03
	1240	0.00E-01	1. 03	4.06E 02	1. 02	4.47E 01	3. 01	1.73E 01	7.70E-01	5.91E-02	8.99E-03	3.11E-03
	1300	0.00E-01	1. 03	4.27E 02	1. 02	4.13E 01	3. 01	1.88E 01	7.69E-01	5.31E-02	8.31E-03	2.74E-03
	1320	0.00E-01	1. 03	3.63E 02	9. 01	4.47E 01	2. 01	1.66E 01	7.70E-01	5.34E-02	8.04E-03	2.19E-03
	1340	0.00E-01	1. 03	3.13E 02	8. 01	4.30E 01	2. 01	1.13E 01	7.51E-01	5.16E-02	8.78E-03	2.49E-03
	1400	0.00E-01	8. 02	2.55E 02	7. 01	3.79E 01	1. 01	1.05E 01	6.47E-01	4.93E-02	7.05E-03	1.82E-03
	1420	0.00E-01	8. 02	2.40E 02	7. 01	2.49E 01	1. 01	9.79E 00	6.90E-01	5.59E-02	9.02E-03	2.62E-03
	1440	0.00E-01	8. 02	2.26E 02	6. 01	2.58E 01	2. 01	9.79E 00	6.60E-01	5.45E-02	1.01E-02	3.63E-03

Table A1d (Continued)

PROGRAM A49GLT: AEROSOL DISTRIBUTION TABULATION (PROCESSED ON 27-APR-81)

NRL6532: ON FITZROY

		RADIUS --->	5.03	5.97	6.93	7.88	8.83	9.78	10.73	11.68	12.63	13.58	14.53
78	209	1140	2.83E-03	1.82E-03	1.05E-03	5.85E-04	3.69E-04	3.[illegible]-04	3.08E-04	1.23E-04	6.16E-05	6.[illegible]-05	9.24E-05
		1200	4.10E-03	2.06E-03	1.76E-03	1.14E-03	1.17E-03	3.[illegible]-04	2.16E-04	3.08E-04	3.08E-05	2.[illegible]-04	6.16E-05
		1220	2.96E-03	2.09E-03	1.23E-03	7.08E-04	8.31E-04	6.[illegible]-04	2.16E-04	1.54E-04	1.54E-04	3.[illegible]-05	6.16E-05
		1240	2.40E-03	1.39E-03	8.62E-04	6.77E-04	6.77E-04	3.[illegible]-04	2.77E-04	1.54E-04	9.24E-05	9.[illegible]-05	9.24E-05
		1300	1.66E-03	1.69E-03	6.47E-04	5.54E-04	4.00E-04	3.[illegible]-04	1.23E-04	9.24E-05	9.24E-05	3.[illegible]-05	0.00E-01
		1320	2.09E-03	1.60E-03	8.62E-04	7.08E-04	3.69E-04	2.[illegible]-04	2.16E-04	1.23E-04	6.16E-05	3.[illegible]-05	0.00E-01
		1340	2.31E-03	2.00E-03	5.85E-04	8.93E-04	4.93E-04	5.[illegible]-04	2.46E-04	1.54E-04	1.54E-04	0.[illegible]-01	0.00E-01
		1400	2.16E-03	1.82E-03	9.54E-04	7.70E-04	4.93E-04	4.[illegible]-04	1.23E-04	1.54E-04	9.24E-05	9.[illegible]-05	6.16E-05
		1420	2.34E-03	1.94E-03	1.02E-03	8.62E-04	4.62E-04	3.[illegible]-04	1.85E-04	1.23E-04	1.54E-04	9.[illegible]-05	3.08E-05
		1440	2.37E-03	1.82E-03	1.02E-03	7.70E-04	3.39E-04	3.[illegible]-04	2.46E-04	1.23E-04	6.16E-05	9.[illegible]-05	6.16E-05
		1500	2.43E-03	1.66E-03	1.17E-03	8.62E-04	6.16E-04	4.[illegible]-04	1.23E-04	1.23E-04	9.24E-05	9.[illegible]-05	6.16E-05
		1520	3.26E-03	1.66E-03	1.17E-03	6.16E-04	5.54E-04	2.[illegible]-04	9.24E-05	1.85E-04	1.85E-04	3.[illegible]-05	6.16E-05
		1540	2.52E-03	1.45E-03	8.01E-04	8.93E-04	4.31E-04	3.[illegible]-04	2.46E-04	1.54E-04	1.23E-04	3.[illegible]-05	1.23E-04
		1600	2.68E-03	1.97E-03	1.11E-03	8.62E-04	3.69E-04	2.[illegible]-04	4.00E-04	2.77E-04	9.24E-05	2.[illegible]-04	0.00E-01
		1620	3.76E-03	2.59E-03	1.76E-03	8.01E-04	1.02E-03	5.[illegible]-04	3.69E-04	4.31E-04	6.16E-05	1.[illegible]-04	3.08E-05
78	210	820	1.35E-02	6.22E-03	2.93E-03	1.54E-03	4.31E-03	7.[illegible]-04	5.54E-04	3.08E-04	3.39E-04	2.46E-04	2.[illegible]-04
		840	5.57E-03	2.37E-03	2.65E-03	1.08E-03	1.05E-03	4.[illegible]-04	5.54E-04	3.08E-04	9.24E-05	1.54E-04	6.[illegible]-05
		900	5.63E-03	2.56E-03	2.28E-03	9.24E-04	8.93E-04	6.[illegible]-04	5.54E-04	3.08E-04	9.24E-05	9.24E-05	3.[illegible]-05
		920	7.54E-03	3.63E-03	3.02E-03	1.26E-03	1.11E-03	7.[illegible]-04	6.47E-04	3.69E-04	3.08E-04	2.46E-04	1.[illegible]-04
		940	1.26E-02	4.37E-03	6.40E-03	2.86E-03	3.42E-03	1.[illegible]-03	1.20E-03	7.08E-04	6.47E-04	5.23E-04	3.[illegible]-04
		1000	5.82E-03	2.31E-03	1.85E-03	8.93E-04	1.17E-03	5.[illegible]-04	2.46E-04	3.39E-04	9.24E-05	6.16E-05	0.[illegible]-01
		1020	4.74E-03	1.94E-03	1.63E-03	8.62E-04	1.05E-03	4.[illegible]-04	4.31E-04	6.16E-05	1.23E-04	1.85E-04	9.[illegible]-05
		1040	5.39E-03	2.12E-03	2.28E-03	8.31E-04	8.93E-04	8.[illegible]-04	4.31E-04	2.77E-04	1.23E-04	1.23E-04	3.[illegible]-05
		1100	5.17E-03	1.48E-03	2.93E-03	6.47E-04	9.85E-04	6.[illegible]-04	2.46E-04	1.85E-04	2.16E-04	2.16E-04	1.[illegible]-04
		1140	5.27E-03	2.56E-03	1.57E-03	9.85E-04	8.93E-04	3.[illegible]-04	4.93E-04	3.08E-04	2.16E-04	2.46E-04	9.[illegible]-05
		1200	5.39E-03	1.66E-03	1.91E-03	9.54E-04	1.14E-03	5.[illegible]-04	5.23E-04	2.16E-04	3.39E-04	1.54E-04	1.[illegible]-04
		1220	4.06E-03	1.54E-03	2.19E-03	8.62E-04	8.01E-04	3.[illegible]-04	3.39E-04	3.39E-04	1.85E-04	1.23E-04	6.[illegible]-05
		1240	4.68E-03	1.97E-03	2.16E-03	9.54E-04	1.11E-03	2.[illegible]-04	4.31E-04	3.08E-04	1.85E-04	6.16E-05	3.[illegible]-05
		1300	4.90E-03	1.60E-03	2.40E-03	6.77E-04	6.77E-04	2.[illegible]-04	3.69E-04	1.54E-04	1.54E-04	6.16E-05	0.[illegible]-01
		1320	4.31E-03	1.79E-03	1.39E-03	7.39E-04	7.08E-04	3.[illegible]-04	1.85E-04	2.16E-04	2.46E-04	1.85E-04	1.[illegible]-04
		1340	3.23E-03	1.48E-03	1.66E-03	8.01E-04	7.08E-04	3.[illegible]-04	3.39E-04	6.16E-05	1.23E-04	9.24E-05	3.[illegible]-05
		1400	3.05E-03	1.29E-03	1.66E-03	7.08E-04	6.77E-04	4.[illegible]-04	2.77E-04	2.16E-04	1.23E-04	6.16E-05	0.[illegible]-01
		1420	2.62E-03	1.08E-03	1.48E-03	4.00E-04	3.39E-04	3.[illegible]-04	1.54E-04	1.54E-04	6.16E-05	6.16E-05	0.[illegible]-01
		1440	3.60E-03	1.57E-03	1.42E-03	7.08E-04	7.08E-04	4.[illegible]-04	4.00E-04	2.16E-04	9.24E-05	3.08E-05	9.[illegible]-05
		1500	3.85E-03	1.91E-03	1.79E-03	7.70E-04	9.24E-04	4.[illegible]-04	4.00E-04	1.85E-04	6.16E-05	3.08E-05	3.[illegible]-05
78	211	840	1.07E-02	3.17E-03	4.[illegible]-03	1.91E-03	2.03E-03	9.54E-04	8.[illegible]-04	9.24E-04	4.[illegible]-04	2.[illegible]-04	1.54E-04
		900	5.79E-03	2.22E-03	2.[illegible]-03	7.39E-04	8.62E-04	3.69E-04	4.[illegible]-04	1.54E-04	1.[illegible]-04	9.[illegible]-05	6.16E-05
		920	8.71E-03	2.59E-03	3.[illegible]-03	1.02E-03	1.45E-03	5.85E-04	4.[illegible]-04	4.31E-04	1.[illegible]-04	1.[illegible]-04	6.16E-05
		940	5.70E-03	2.43E-03	2.[illegible]-03	7.70E-04	1.05E-03	3.08E-04	3.[illegible]-04	1.23E-04	1.[illegible]-04	9.[illegible]-05	6.16E-05
		1000	5.73E-03	2.25E-03	2.[illegible]-03	8.62E-04	1.05E-03	4.62E-04	3.[illegible]-04	2.77E-04	1.[illegible]-04	9.[illegible]-05	0.00E-01
		1020	6.31E-03	2.19E-03	2.[illegible]-03	6.77E-04	1.17E-03	5.23E-04	2.[illegible]-04	2.16E-04	1.[illegible]-04	1.[illegible]-04	6.16E-05
		1040	6.03E-03	2.22E-03	2.[illegible]-03	7.39E-04	1.14E-03	2.16E-04	3.[illegible]-04	1.85E-04	2.[illegible]-04	6.[illegible]-05	0.00E-01
		1100	4.93E-03	1.94E-03	2.[illegible]-03	7.39E-04	8.93E-04	2.46E-04	2.[illegible]-04	1.54E-04	6.[illegible]-05	1.[illegible]-04	3.08E-05
		1200	2.31E-03	7.70E-04	1.[illegible]-03	6.16E-04	4.00E-04	1.85E-04	1.[illegible]-04	1.23E-04	3.[illegible]-05	3.[illegible]-05	3.08E-05
		1220	2.06E-03	1.23E-03	8.[illegible]-04	5.85E-04	2.77E-04	3.69E-04	1.[illegible]-04	1.23E-04	6.[illegible]-05	0.[illegible]-01	0.00E-01
		1240	1.69E-03	1.11E-03	5.[illegible]-04	3.69E-04	4.31E-04	1.54E-04	3.[illegible]-05	6.16E-05	3.[illegible]-05	3.08E-05	3.08E-05
		1300	1.66E-03	8.01E-04	4.[illegible]-04	2.16E-04	3.69E-04	1.54E-04	9.[illegible]-05	1.85E-04	0.[illegible]-01	0.[illegible]-01	0.00E-01
		1320	1.69E-03	8.31E-04	5.[illegible]-04	1.54E-04	3.08E-04	2.46E-04	6.[illegible]-05	6.16E-05	6.[illegible]-05	0.[illegible]-01	0.00E-01
		1340	1.51E-03	8.62E-04	5.[illegible]-04	4.00E-04	2.46E-04	9.24E-05	6.[illegible]-05	6.16E-05	3.[illegible]-05	0.[illegible]-01	0.00E-01
		1400	1.29E-03	1.08E-03	5.[illegible]-04	2.46E-04	1.54E-04	1.23E-04	9.[illegible]-05	0.00E-01	3.[illegible]-05	6.[illegible]-05	0.00E-01
		1420	1.88E-03	8.93E-04	6.[illegible]-04	1.85E-04	5.54E-04	4.31E-04	3.[illegible]-05	3.08E-05	6.[illegible]-05	3.[illegible]-05	0.00E-01
		1440	2.16E-03	7.08E-04	5.[illegible]-04	3.08E-04	2.16E-04	3.08E-05	1.[illegible]-04	0.00E-01	0.[illegible]-01	0.[illegible]-01	0.00E-01

Table A1e — Twenty-Minute Averages of dN/dR (cm^{-3} μm^{-1}) vs Radius (μm)

PROGRAM A49GLT: AEROSOL DISTRIBUTION TABULATION (PROCESSED ON 27-APR-81)

NRL6532: ON FITZROY

		RADIUS --->	0.12	0.15	0.18	0.22	0.26	0.29	0.33	1.23	2.18	3.12	4.08
78	211	1500	0.00E-01	7.47E 02	2.05E 02	6.28E 01	2.93E 01	1.55E 01	6.78E 00	5.29E-01	4.42E-02	7.30E-03	2.59E-03
78	212	800	0.[illegible]-01	1.[illegible] 03	9.05E 02	6.22E 02	4.16E 02	2.[illegible] 02	1.77E 02	4.38E 00	1.50E-01	4.92E-02	1.[illegible]-02
		820	0.[illegible]-01	9.[illegible] 02	7.11E 02	4.07E 02	2.53E 02	1.[illegible] 02	1.10E 02	2.76E 00	1.38E-01	4.62E-02	1.[illegible]-02
		840	0.[illegible]-01	7.[illegible] 02	5.35E 02	2.74E 02	2.00E 02	1.[illegible] 02	7.45E 01	2.07E 00	1.38E-01	4.51E-02	1.[illegible]-02
		900	0.[illegible]-01	7.[illegible] 02	4.09E 02	2.37E 02	1.40E 02	8.[illegible] 01	5.57E 01	1.44E 00	1.11E-01	3.56E-02	1.[illegible]-02
		920	0.[illegible]-01	6.[illegible] 02	3.84E 02	2.21E 02	1.36E 02	7.[illegible] 01	4.44E 01	1.29E 00	1.18E-01	4.02E-02	1.[illegible]-02
		940	0.[illegible]-01	1.[illegible] 03	7.84E 02	5.12E 02	3.62E 02	2.[illegible] 02	1.54E 02	3.52E 00	2.06E-01	6.66E-02	2.[illegible]-02
		1000	0.[illegible]-01	1.[illegible] 03	8.13E 02	5.08E 02	3.87E 02	2.[illegible] 02	1.47E 02	3.77E 00	2.59E-01	9.06E-02	3.[illegible]-02
		1020	0.[illegible]-01	8.[illegible] 02	6.24E 02	3.48E 02	2.21E 02	1.[illegible] 02	8.36E 01	2.45E 00	2.04E-01	6.23E-02	2.[illegible]-02
		1040	0.[illegible]-01	8.[illegible] 02	5.96E 02	3.67E 02	2.48E 02	1.[illegible] 02	7.60E 01	2.17E 00	2.57E-01	8.28E-02	2.[illegible]-02
		1100	0.[illegible]-01	8.[illegible] 02	5.51E 02	3.36E 02	2.27E 02	1.[illegible] 02	7.83E 01	1.97E 00	2.96E-01	1.12E-01	3.[illegible]-02
		1140	0.[illegible]-01	4.[illegible] 02	3.29E 02	1.71E 02	9.89E 01	5.[illegible] 01	3.54E 01	1.38E 00	2.16E-01	7.28E-02	2.[illegible]-02
		1200	0.[illegible]-01	5.[illegible] 02	3.94E 02	1.88E 02	1.24E 02	5.[illegible] 01	2.71E 01	1.55E 00	1.71E-01	4.57E-02	1.[illegible]-02
		1220	0.[illegible]-01	1.[illegible] 03	6.09E 02	3.70E 02	2.36E 02	1.[illegible] 02	7.15E 01	3.06E 00	3.67E-01	1.10E-01	3.[illegible]-02
		1240	0.[illegible]-01	1.[illegible] 03	7.14E 02	2.65E 02	1.64E 02	9.[illegible] 01	5.95E 01	1.83E 00	1.73E-01	4.25E-02	1.[illegible]-02
		1300	0.[illegible]-01	1.[illegible] 03	8.10E 02	2.19E 02	1.16E 02	5.[illegible] 01	4.07E 01	1.49E 00	1.41E-01	3.65E-02	1.[illegible]-02
		1320	0.[illegible]-01	5.[illegible] 02	4.96E 02	4.57E 02	3.86E 02	2.[illegible] 02	1.54E 02	2.32E 00	1.71E-01	6.52E-02	2.[illegible]-02
		1340	0.[illegible]-01	1.[illegible] 03	6.04E 02	2.61E 02	2.62E 02	1.[illegible] 02	1.32E 02	9.94E 00	2.48E-01	2.02E-01	1.[illegible]-01
		1400	0.[illegible]-01	4.[illegible] 02	3.04E 02	3.42E 02	3.17E 02	2.[illegible] 02	1.38E 02	2.23E 00	1.03E-01	4.44E-02	2.[illegible]-02
		1420	0.[illegible]-01	4.[illegible] 02	3.45E 02	1.72E 02	8.60E 01	3.[illegible] 01	1.81E 01	8.07E-01	9.89E-02	2.35E-02	8.[illegible]-03
		1440	0.[illegible]-01	4.[illegible] 02	1.73E 02	5.51E 01	3.01E 01	1.[illegible] 01	1.66E 01	9.43E-01	1.13E-01	2.72E-02	1.[illegible]-02
		1500	0.[illegible]-01	3.[illegible] 02	1.11E 02	4.56E 01	3.53E 01	2.[illegible] 01	2.26E 01	1.14E 00	1.25E-01	2.91E-02	1.[illegible]-02
78	213	840	0.00E-01	9.62E 02	6.38E 02	4.23E 02	3.74E 02	2.[illegible] 02	1.96E 02	5.05E 00	1.60E-01	6.52E-02	2.[illegible]-02
		900	0.00E-01	1.46E 03	8.02E 02	5.21E 02	4.19E 02	3.[illegible] 02	2.42E 02	6.75E 00	2.26E-01	9.77E-02	4.[illegible]-02
		920	0.00E-01	1.31E 03	8.29E 02	4.95E 02	4.39E 02	3.[illegible] 02	1.95E 02	4.54E 00	2.58E-01	1.15E-01	4.[illegible]-02
		940	0.00E-01	1.25E 03	8.25E 02	5.34E 02	4.12E 02	2.[illegible] 02	1.86E 02	3.98E 00	2.62E-01	1.14E-01	4.[illegible]-02
		1000	0.00E-01	1.32E 03	9.03E 02	6.17E 02	4.34E 02	2.[illegible] 02	2.14E 02	3.62E 00	1.85E-01	7.71E-02	2.[illegible]-02
		1020	0.00E-01	1.32E 03	9.36E 02	6.70E 02	4.78E 02	3.[illegible] 02	1.84E 02	2.61E 00	1.45E-01	5.51E-02	2.[illegible]-02
		1040	0.00E-01	1.61E 03	1.01E 03	7.04E 02	5.25E 02	3.[illegible] 02	2.74E 02	6.17E 00	1.63E-01	7.37E-02	3.[illegible]-02
		1100	0.00E-01	2.58E 03	1.41E 03	8.24E 02	6.46E 02	4.[illegible] 02	3.41E 02	1.63E 01	2.73E-01	1.39E-01	6.[illegible]-02
		1120	0.00E-01	3.98E 03	1.85E 03	1.06E 03	8.52E 02	5.[illegible] 02	4.10E 02	2.23E 01	3.35E-01	1.62E-01	9.[illegible]-02
		1140	0.00E-01	4.92E 03	2.11E 03	1.29E 03	9.84E 02	6.[illegible] 02	5.21E 02	2.46E 01	3.17E-01	1.42E-01	8.[illegible]-02
		1200	0.00E-01	4.57E 03	1.99E 03	1.31E 03	1.02E 03	7.[illegible] 02	4.95E 02	2.35E 01	2.65E-01	1.24E-01	7.[illegible]-02
		1220	0.00E-01	4.35E 03	2.08E 03	1.29E 03	1.01E 03	6.[illegible] 02	4.91E 02	2.36E 01	2.43E-01	1.10E-01	6.[illegible]-02
		1240	0.00E-01	4.37E 03	2.25E 03	1.37E 03	9.42E 02	6.[illegible] 02	4.86E 02	1.79E 01	2.04E-01	8.50E-02	4.[illegible]-02
		1300	0.00E-01	5.13E 03	2.49E 03	1.57E 03	1.18E 03	8.[illegible] 02	6.17E 02	2.46E 01	1.92E-01	9.20E-02	5.[illegible]-02
78	215	840	0.00E-01	1.00E 02	1.87E 01	6.02E 00	2.58E 00	8.60E-01	2.26E 00	2.21E-01	2.54E-02	5.[illegible]-03	1.45E-03
		900	0.00E-01	8.91E 01	1.94E 01	5.16E 00	6.02E 00	2.58E 00	7.53E-01	2.09E-01	2.27E-02	4.[illegible]-03	1.60E-03
		920	0.00E-01	1.39E 02	5.42E 01	6.02E 00	5.16E 00	6.02E 00	4.52E 00	3.84E-01	5.12E-02	1.[illegible]-02	3.66E-03
		940	0.00E-01	1.95E 02	5.96E 01	1.29E 01	1.03E 01	6.02E 00	6.02E 00	4.63E-01	6.35E-02	1.[illegible]-02	4.62E-03
		1000	0.00E-01	2.26E 02	7.23E 01	2.32E 01	1.72E 01	6.88E 00	3.76E 00	4.82E-01	6.66E-02	1.[illegible]-02	4.50E-03
		1020	0.00E-01	1.95E 02	5.22E 01	1.63E 01	9.46E 00	3.44E 00	4.52E 00	3.90E-01	5.18E-02	1.[illegible]-02	3.51E-03
		1040	0.00E-01	2.46E 02	9.10E 01	2.49E 01	1.03E 01	8.60E 00	6.78E 00	3.84E-01	4.36E-02	8.[illegible]-03	3.05E-03
		1100	0.00E-01	2.90E 02	9.23E 01	2.32E 01	1.63E 01	7.74E 00	3.76E 00	3.83E-01	4.90E-02	1.[illegible]-02	2.89E-03
		1120	0.00E-01	2.40E 02	7.16E 01	9.46E 00	1.38E 01	5.16E 00	6.78E 00	3.32E-01	3.23E-02	4.[illegible]-03	1.51E-03
		1140	0.00E-01	2.48E 02	7.43E 01	1.98E 01	1.89E 01	7.74E 00	8.28E 00	3.51E-01	4.24E-02	7.[illegible]-03	2.77E-03
		1200	0.00E-01	2.32E 02	7.90E 01	2.06E 01	1.20E 01	8.60E 00	9.79E 00	3.57E-01	4.42E-02	1.[illegible]-02	2.68E-03
		1220	0.00E-01	2.76E 02	9.84E 01	2.58E 01	1.46E 01	6.88E 00	4.52E 00	3.87E-01	5.02E-02	9.[illegible]-03	3.17E-03
		1240	0.00E-01	3.89E 02	1.39E 02	5.51E 01	2.58E 01	1.03E 01	1.51E 01	4.14E-01	7.06E-02	1.[illegible]-02	6.31E-03

Table A1e (Continued)

PROGRAM A49GLT: AEROSOL DISTRIBUTION TABULATION (PROCESSED ON 27-APR-81)

NRL6532: ON FITZROY

		RADIUS --->	5.03	5.97	6.93	7.88	8.83	9.78	10.73	11.68	12.63	13.58	14.53
78	211	1500	1.54E-03	5.23E-04	5.85E-04	2.77E-04	2.46E-04	1.23E-04	6.16E-05	0.00E-01	3.08E-05	0.00E-01	0.00E-01
78	212	800	6.71E-03	5.48E-03	2.46E-03	3.14E-03	1.08E-03	1.[illegible]E-03	1.[illegible]E-03	7.08E-04	9.[illegible]E-04	4.[illegible]E-04	4.[illegible]E-04
		820	5.67E-03	4.50E-03	2.22E-03	2.83E-03	1.35E-03	1.[illegible]E-03	1.[illegible]E-03	8.93E-04	6.[illegible]E-04	3.[illegible]E-04	4.[illegible]E-04
		840	6.47E-03	4.71E-03	2.77E-03	2.83E-03	1.11E-03	1.[illegible]E-03	1.[illegible]E-03	4.00E-04	6.[illegible]E-04	3.[illegible]E-04	2.[illegible]E-04
		900	5.27E-03	4.13E-03	2.06E-03	2.62E-03	8.62E-04	1.[illegible]E-03	4.[illegible]E-04	5.85E-04	4.[illegible]E-04	1.[illegible]E-04	1.[illegible]E-04
		920	7.11E-03	4.03E-03	2.68E-03	2.89E-03	7.70E-04	1.[illegible]E-03	6.[illegible]E-04	5.54E-04	3.[illegible]E-04	1.[illegible]E-04	3.[illegible]E-04
		940	7.82E-03	6.13E-03	2.96E-03	3.69E-03	1.11E-03	1.[illegible]E-03	1.[illegible]E-03	5.54E-04	5.[illegible]E-04	4.[illegible]E-04	3.[illegible]E-04
		1000	1.32E-02	8.44E-03	5.36E-03	5.67E-03	1.88E-03	3.[illegible]E-03	1.[illegible]E-03	9.54E-04	9.[illegible]E-04	6.[illegible]E-04	4.[illegible]E-04
		1020	9.08E-03	5.14E-03	3.69E-03	3.91E-03	1.05E-03	1.[illegible]E-03	1.[illegible]E-03	7.70E-04	4.[illegible]E-04	2.[illegible]E-04	3.[illegible]E-04
		1040	1.08E-02	6.62E-03	4.62E-03	3.94E-03	2.03E-03	2.[illegible]E-03	1.[illegible]E-03	8.93E-04	8.[illegible]E-04	4.[illegible]E-04	5.[illegible]E-04
		1100	1.47E-02	8.19E-03	6.59E-03	5.17E-03	2.37E-03	2.[illegible]E-03	1.[illegible]E-03	9.54E-04	1.[illegible]E-03	6.[illegible]E-04	6.[illegible]E-04
		1140	1.09E-02	4.99E-03	3.57E-03	3.66E-03	1.02E-03	2.[illegible]E-03	1.[illegible]E-03	4.31E-04	4.[illegible]E-04	2.[illegible]E-04	3.[illegible]E-04
		1200	7.48E-03	3.51E-03	2.83E-03	2.09E-03	9.85E-04	1.[illegible]E-03	4.[illegible]E-04	3.39E-04	3.[illegible]E-04	6.[illegible]E-05	2.[illegible]E-04
		1220	1.95E-02	8.19E-03	7.33E-03	4.90E-03	2.77E-03	2.[illegible]E-03	1.[illegible]E-03	1.08E-03	8.[illegible]E-04	4.[illegible]E-04	4.[illegible]E-04
		1240	7.08E-03	2.74E-03	2.49E-03	1.45E-03	1.11E-03	8.[illegible]E-04	5.[illegible]E-04	4.93E-04	2.[illegible]E-04	1.[illegible]E-04	9.[illegible]E-05
		1300	6.80E-03	3.20E-03	2.77E-03	1.35E-03	9.85E-04	1.[illegible]E-03	4.[illegible]E-04	4.93E-04	1.[illegible]E-04	9.[illegible]E-05	1.[illegible]E-04
		1320	1.13E-02	1.16E-02	5.97E-03	9.02E-03	5.76E-03	5.[illegible]E-03	6.[illegible]E-03	5.11E-03	4.[illegible]E-03	6.[illegible]E-03	3.[illegible]E-03
		1340	1.27E-01	1.78E-01	1.21E-01	1.98E-01	1.37E-01	1.[illegible]E-01	1.[illegible]E-01	1.34E-01	1.[illegible]E-01	1.[illegible]E-01	8.[illegible]E-02
		1400	2.06E-02	2.35E-02	1.63E-02	2.61E-02	1.75E-02	2.[illegible]E-02	2.[illegible]E-02	1.60E-02	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02
		1420	5.05E-03	1.66E-03	2.40E-03	7.39E-04	1.11E-03	5.[illegible]E-04	4.[illegible]E-04	4.31E-04	2.[illegible]E-04	1.[illegible]E-04	9.[illegible]E-05
		1440	6.13E-03	1.79E-03	2.56E-03	1.05E-03	9.24E-04	7.[illegible]E-04	5.[illegible]E-04	1.85E-04	2.[illegible]E-04	2.[illegible]E-04	9.[illegible]E-05
		1500	6.77E-03	2.31E-03	2.65E-03	8.93E-04	1.26E-03	8.[illegible]E-04	4.[illegible]E-04	3.39E-04	9.[illegible]E-05	2.[illegible]E-04	1.[illegible]E-04
78	213	840	1.23E-02	1.[illegible]E-02	8.71E-03	1.24E-02	7.61E-03	8.47E-03	8.44E-03	6.34E-03	7.30E-03	6.87E-03	6.[illegible]E-03
		900	2.61E-02	3.[illegible]E-02	2.07E-02	3.44E-02	2.07E-02	2.85E-02	3.09E-02	2.32E-02	2.86E-02	2.52E-02	1.[illegible]E-02
		920	2.10E-02	2.[illegible]E-02	1.11E-02	1.78E-02	9.36E-03	1.31E-02	1.23E-02	8.34E-03	1.03E-02	8.59E-03	6.[illegible]E-03
		940	1.83E-02	1.[illegible]E-02	7.67E-03	1.37E-02	4.50E-03	8.16E-03	6.40E-03	4.10E-03	4.19E-03	4.71E-03	3.[illegible]E-03
		1000	1.26E-02	1.[illegible]E-02	5.23E-03	8.04E-03	4.13E-03	5.27E-03	4.19E-03	3.23E-03	3.20E-03	4.03E-03	2.[illegible]E-03
		1020	8.47E-03	8.[illegible]E-03	3.51E-03	5.54E-03	2.22E-03	3.02E-03	2.62E-03	1.85E-03	1.48E-03	1.57E-03	8.[illegible]E-04
		1040	1.65E-02	1.[illegible]E-02	1.03E-02	1.80E-02	1.28E-02	1.36E-02	1.68E-02	1.48E-02	1.33E-02	1.54E-02	9.[illegible]E-03
		1100	4.36E-02	6.[illegible]E-02	4.23E-02	6.35E-02	5.03E-02	5.69E-02	7.06E-02	6.12E-02	5.89E-02	6.66E-02	4.[illegible]E-02
		1120	6.30E-02	9.[illegible]E-02	6.41E-02	9.83E-02	8.23E-02	9.18E-02	1.11E-01	9.67E-02	9.42E-02	1.11E-01	7.[illegible]E-02
		1140	5.95E-02	8.[illegible]E-02	6.35E-02	9.67E-02	7.77E-02	9.16E-02	1.06E-01	9.27E-02	9.15E-02	1.07E-01	7.[illegible]E-02
		1200	4.58E-02	6.[illegible]E-02	4.62E-02	6.54E-02	5.49E-02	5.66E-02	6.88E-02	5.69E-02	5.65E-02	6.02E-02	4.[illegible]E-02
		1220	4.39E-02	6.[illegible]E-02	4.54E-02	6.81E-02	5.51E-02	5.56E-02	6.95E-02	5.85E-02	5.51E-02	5.99E-02	4.[illegible]E-02
		1240	3.25E-02	4.[illegible]E-02	2.63E-02	4.18E-02	3.63E-02	3.68E-02	4.46E-02	3.66E-02	3.81E-02	3.69E-02	3.[illegible]E-02
		1300	3.73E-02	4.[illegible]E-02	3.17E-02	4.76E-02	4.26E-02	4.68E-02	5.40E-02	4.61E-02	4.34E-02	4.58E-02	3.[illegible]E-02
78	215	840	8.[illegible]E-04	6.77E-04	2.46E-04	4.[illegible]E-04	1.23E-04	1.54E-04	0.00E-01	0.00E-01	0.00E-01	3.08E-05	3.08E-05
		900	8.[illegible]E-04	8.01E-04	1.54E-04	4.[illegible]E-04	1.54E-04	1.85E-04	0.00E-01	6.16E-05	0.00E-01	0.00E-01	3.08E-05
		920	1.[illegible]E-03	1.02E-03	7.08E-04	5.[illegible]E-04	4.93E-04	1.23E-04	9.24E-05	1.54E-04	9.24E-05	3.08E-05	3.08E-05
		940	2.[illegible]E-03	1.63E-03	1.11E-03	5.[illegible]E-04	5.23E-04	3.39E-04	3.08E-04	1.54E-04	1.23E-04	0.00E-01	9.24E-05
		1000	2.[illegible]E-03	1.63E-03	8.31E-04	4.[illegible]E-04	5.23E-04	4.00E-04	1.54E-04	6.16E-05	9.24E-05	9.24E-05	6.16E-05
		1020	2.[illegible]E-03	1.11E-03	7.08E-04	4.[illegible]E-04	4.62E-04	3.08E-04	1.23E-04	1.54E-04	9.24E-05	6.16E-05	9.24E-05
		1040	2.[illegible]E-03	9.85E-04	6.77E-04	3.[illegible]E-04	2.77E-04	2.46E-04	1.54E-04	0.00E-01	1.54E-04	0.00E-01	0.00E-01
		1100	1.[illegible]E-03	1.02E-03	7.39E-04	2.[illegible]E-04	2.77E-04	2.46E-04	2.16E-04	9.24E-05	9.24E-05	3.08E-05	9.24E-05
		1120	7.[illegible]E-04	3.69E-04	1.54E-04	9.[illegible]E-05	6.16E-05	9.24E-05	3.08E-05	0.00E-01	3.08E-05	0.00E-01	0.00E-01
		1140	1.[illegible]E-03	1.05E-03	4.00E-04	4.[illegible]E-04	2.77E-04	1.23E-04	3.08E-05	9.24E-05	1.23E-04	3.08E-05	0.00E-01
		1200	2.[illegible]E-03	1.08E-03	6.47E-04	2.[illegible]E-04	4.00E-04	1.54E-04	9.24E-05	3.08E-05	9.24E-05	3.08E-05	0.00E-01
		1220	2.[illegible]E-03	9.85E-04	6.47E-04	4.[illegible]E-04	4.00E-04	2.16E-04	9.24E-05	9.24E-05	9.24E-05	6.16E-05	3.08E-05
		1240	3.[illegible]E-03	1.39E-03	1.39E-03	5.[illegible]E-04	7.08E-04	3.39E-04	2.77E-04	2.77E-04	9.24E-05	9.24E-05	3.08E-05

Table A2a — Twenty-Minute Averages of Measured and Calculated Parameters

PROGRAM A48GLT: AEROSOL DATA TABULATION (PROCESSED ON 28-APR-81)

NRL6532: ON FITZROY

YEAR	DAY	TIME	AT	RH	WS	WD	WVP	NUM	AREA	VOL	0.55	1.05	3.80	10.0
78	196	1320	11.3	80.8	1.1	278	8.1	173.	35.9	23.0	0.076	0.046	0.0067	0.0016
		1340	3.4	76.2	2.0	308	4.5	208.	39.7	24.3	0.082	0.048	0.0068	0.0016
		1400	11.3	80.3	1.6	309	8.0	177.	34.5	21.7	0.070	0.043	0.[illegible]3	0.0015
		1420	12.0	80.8	1.7	313	8.5	176.	34.0	21.2	0.069	0.041	0.[illegible]2	0.0014
		1440	12.1	80.3	2.0	310	8.5	180.	35.1	22.4	0.072	0.043	0.[illegible]4	0.0016
		1500	12.2	80.3	2.1	312	8.5	172.	33.5	21.1	0.068	0.041	0.[illegible]1	0.0015
		1520	11.8	77.8	2.5	309	8.0	188.	37.4	23.4	0.077	0.046	0.[illegible]7	0.0016
		1540	12.6	78.5	3.0	308	8.6	187.	37.2	23.1	0.076	0.045	0.[illegible]6	0.0015
		1600	12.1	77.6	3.3	299	8.2	190.	38.0	23.8	0.078	0.047	0.[illegible]9	0.0016
		1620	12.7	79.4	3.3	299	8.7	195.	42.2	27.5	0.091	0.056	0.[illegible]0	0.0018
		1640	12.7	81.0	3.2	300	8.9	197.	43.8	29.3	0.095	0.060	0.[illegible]8	0.0020
		1700	12.3	81.9	3.1	305	8.8	207.	43.8	28.3	0.094	0.057	0.[illegible]2	0.0019
		1720	12.7	79.8	2.9	303	8.8	193.	38.0	23.3	0.079	0.046	0.[illegible]5	0.0016
		1740	12.7	79.9	2.6	308	8.8	184.	35.4	21.8	0.072	0.042	0.[illegible]1	0.0015
		1800	12.3	80.4	2.7	306	8.6	192.	37.2	23.1	0.076	0.045	0.[illegible]5	0.0016
78	197	820	11.9	94.7	4.9	279	9.9	358.	118.8	120.1	0.286	0.232	0.0469	0.0100
		840	12.2	95.6	4.2	275	10.2	346.	123.7	141.1	0.299	0.253	0.0557	0.0128
		900	9.6	118.0	5.1	285	10.5	552.	219.3	307.6	0.539	0.470	0.1176	0.0323
		920	12.0	99.3	4.8	285	10.4	923.	464.4	1130.7	1.133	1.100	0.3758	0.1500
		940	12.0	100.0	4.7	287	10.5	735.	391.7	862.3	0.969	0.934	0.3314	0.1097
		1000	8.7	128.0	4.7	281	10.8	631.	397.3	1400.0	0.959	0.925	0.4733	0.2082
		1020	12.0	99.8	4.7	280	10.5	445.	236.7	642.5	0.580	0.530	0.2307	0.0891
		1040	12.0	99.4	4.6	281	10.4	342.	147.6	278.3	0.364	0.295	0.1120	0.0353
		1100	12.1	98.9	4.5	282	10.5	293.	120.7	231.7	0.295	0.231	0.0933	0.0301
		1120	12.1	98.7	4.6	282	10.4	201.	72.3	128.9	0.172	0.131	0.0503	0.0166
		1140	12.1	98.1	4.3	283	10.4	177.	57.5	95.5	0.134	0.098	0.0375	0.0122
		1200	11.7	101.0	4.7	280	10.4	195.	58.2	99.8	0.132	0.093	0.0383	0.0131
		1220	12.1	98.0	4.7	275	10.3	220.	74.0	146.3	0.173	0.125	0.0530	0.0200
		1240	12.0	98.6	4.5	275	10.4	260.	99.5	227.1	0.238	0.182	0.0765	0.0318
		1300	11.7	101.0	4.9	284	10.4	248.	81.4	152.5	0.190	0.136	0.0548	0.0208
		1400	11.9	101.0	4.9	279	10.6	369.	180.9	339.7	0.451	0.403	0.1295	0.0421
		1420	12.2	99.0	4.9	281	10.5	466.	181.2	308.4	0.448	0.346	0.1035	0.0390
		1440	12.2	98.8	5.2	284	10.5	411.	130.2	161.2	0.314	0.214	0.0521	0.0182
		1500	12.2	98.5	5.2	282	10.5	437.	151.5	199.3	0.375	0.268	0.0645	0.0227
		1520	12.0	100.0	5.0	284	10.5	399.	142.8	187.9	0.351	0.269	0.0633	0.0207
		1540	12.2	98.5	5.1	282	10.5	363.	136.6	188.2	0.338	0.267	0.0641	0.0209
78	198	1340	7.3	136.0	6.9	282	10.4	162.	63.5	200.4	0.142	0.114	0.0740	0.0306
		1400	10.7	107.0	6.6	284	10.3	144.	52.1	141.4	0.116	0.092	0.0534	0.0207
		1420	11.9	97.7	6.4	284	10.2	104.	36.3	98.0	0.080	0.069	0.0365	0.0142
		1440	11.9	97.0	6.6	286	10.1	160.	52.8	118.9	0.118	0.093	0.0463	0.0166
		1500	11.6	97.9	6.5	286	10.0	153.	49.7	113.9	0.110	0.090	0.0458	0.0158
		1520	11.1	99.7	7.4	284	9.8	185.	66.6	191.1	0.149	0.123	0.0659	0.0284
		1540	11.8	94.7	7.6	283	9.8	104.	58.5	178.6	0.142	0.119	0.0668	0.0265

Table A2b — Twenty-Minute Averages of Measured and Calculated Parameters

PROGRAM A48GLT: AEROSOL DATA TABULATION (PROCESSED ON 28-APR-81)

NRL6532: ON FITZROY

YEAR	DAY	TIME	AT	RH	WS	WD	WVP	NUM	AREA	VOL	0.55	1.05	3.80	10.0
78	198	1600	10.9	98.4	8.1	286	9.6	85.	48.8	160.4	0.116	0.103	0.0597	0.0239
		1620	11.8	90.8	7.4	285	9.4	62.	28.2	83.6	0.065	0.060	0.0307	0.0123
		1640	11.6	92.0	7.8	286	9.4	62.	26.1	77.7	0.059	0.053	0.0288	0.0114
		1700	10.5	98.7	7.0	280	9.4	64.	29.0	92.0	0.066	0.061	0.0343	0.0136
78	201	800	9.7	92.3	2.3	189	8.4	21.	3.8	4.0	0.007	0.005	0.0013	0.0004
		820	9.8	92.4	2.0	229	8.4	12.	2.8	2.4	0.006	0.004	0.0010	0.0002
		840	9.9	92.3	1.5	236	8.4	15.	3.7	3.5	0.008	0.006	0.0016	0.0003
		900	9.7	92.4	1.1	165	8.3	20.	4.4	4.4	0.009	0.007	0.0019	0.0004
		920	10.5	87.9	0.9	132	8.3	24.	4.5	4.9	0.008	0.007	0.0022	0.0005
		940	10.5	87.7	1.4	129	8.4	23.	5.3	6.7	0.011	0.008	0.0027	0.0008
		1000	10.6	87.5	1.6	127	8.4	25.	5.2	7.2	0.010	0.008	0.0029	0.0009
		1020	10.8	85.4	2.0	124	8.3	27.	6.0	10.2	0.012	0.010	0.0037	0.0013
		1040	10.9	81.8	2.7	125	8.0	31.	7.1	9.0	0.015	0.013	0.0040	0.0009
		1100	11.1	78.5	3.0	124	7.8	32.	7.8	9.2	0.016	0.015	0.0046	0.0008
		1300	10.7	91.3	4.8	262	8.8	77.	19.7	35.6	0.041	0.033	0.0136	0.0047
		1320	9.0	101.0	5.3	266	8.7	103.	31.3	73.4	0.070	0.052	0.0239	0.0106
		1340	8.9	103.0	5.4	268	8.8	117.	36.8	85.3	0.084	0.061	0.0276	0.0122
		1400	10.5	97.8	5.4	273	9.3	121.	44.4	113.7	0.103	0.080	0.0388	0.0165
		1420	10.7	97.1	5.2	272	9.4	116.	37.2	81.8	0.083	0.063	0.0330	0.0113
		1440	11.2	95.4	5.3	269	9.5	128.	45.5	134.6	0.101	0.079	0.0493	0.0202
78	203	1200	10.6	103.0	2.9	265	9.8	11.	12.2	71.7	0.028	0.026	0.0243	0.0120
		1220	11.3	98.8	2.4	260	9.9	13.	11.4	55.4	0.027	0.024	0.0202	0.0089
		1240	11.3	100.0	2.3	268	10.0	20.	16.0	123.4	0.037	0.034	0.0234	0.0206
		1300	11.4	99.8	3.5	285	10.1	14.	9.0	48.9	0.021	0.021	0.0102	0.0078
		1320	7.7	111.0	7.0	268	8.7	53.	25.6	103.7	0.060	0.050	0.0332	0.0164
78	205	1840	9.9	85.4	5.7	273	7.8	23.	15.3	55.2	0.036	0.036	0.0216	0.0083
		1900	10.1	85.0	5.3	268	7.9	20.	14.6	57.9	0.034	0.035	0.0223	0.0088
		1920	10.0	81.3	4.9	271	7.5	18.	11.3	39.4	0.026	0.027	0.0151	0.0059
		1940	10.2	82.0	4.7	263	7.7	15.	10.7	38.3	0.025	0.027	0.0158	0.0056
		2000	10.1	80.3	4.7	275	7.4	17.	9.6	27.2	0.023	0.023	0.0120	0.0038
		2020	10.4	78.0	4.0	271	7.4	14.	8.1	24.0	0.019	0.019	0.0107	0.0033
		2040	10.6	77.4	4.2	261	7.4	13.	6.7	18.5	0.016	0.016	0.0086	0.0025
		2100	10.0	78.7	4.0	264	7.3	12.	7.0	21.0	0.016	0.017	0.0093	0.0030
		2120	10.2	81.0	3.6	277	7.6	14.	9.0	35.7	0.021	0.021	0.0132	0.0054
		2140	10.0	81.4	2.9	288	7.5	14.	8.7	34.6	0.020	0.020	0.0129	0.0053
78	206	1140	10.6	85.3	7.2	283	8.2	52.	24.2	71.8	0.054	0.056	0.0294	0.0102
		1200	10.6	86.1	6.9	274	8.3	56.	27.5	86.7	0.062	0.063	0.0347	0.0126
		1220	10.3	87.4	7.2	274	8.2	57.	29.1	91.7	0.067	0.066	0.0365	0.0133
		1240	10.6	86.7	7.1	275	8.3	56.	29.1	95.2	0.066	0.067	0.0381	0.0140
		1300	11.5	86.9	7.0	278	8.8	55.	31.2	102.0	0.072	0.072	0.0402	0.0149
		1320	11.1	88.3	7.1	277	8.7	55.	32.6	115.0	0.075	0.076	0.0444	0.0171

Table A2c — Twenty-Minute Averages of Measured and Calculated Parameters

PROGRAM A48GLT: AEROSOL DATA TABULATION (PROCESSED ON 28-APR-81)

NRL6532: ON FITZROY

YEAR	DAY	TIME	AT	RH	WS	WD	WVP	NUM	AREA	VOL	0.55	1.05	3.80	10.0
78	206	1340	8.6	92.6	7.7	284	7.8	78.	38.0	131.3	0.087	0.083	0.0481	0.0196
		1400	11.1	88.2	7.2	277	8.7	64.	42.6	190.9	0.097	0.097	0.0656	0.0299
		1420	11.4	88.2	7.1	274	8.9	60.	42.2	184.7	0.098	0.097	0.0632	0.0288
		1440	11.4	88.4	7.2	272	8.9	57.	24.0	80.3	0.054	0.050	0.0293	0.0119
		1500	11.4	88.2	7.4	275	8.9	56.	21.4	67.8	0.048	0.042	0.0236	0.0100
		1520	11.2	89.0	7.6	275	8.9	54.	22.0	89.0	0.048	0.043	0.0277	0.0138
		1540	11.3	88.4	7.4	273	8.9	52.	23.5	117.5	0.050	0.048	0.0341	0.0188
78	207	840	10.7	79.8	3.1	244	7.7	11.	2.6	4.3	0.005	0.004	0.0019	0.0005
		900	10.4	81.4	2.9	219	7.7	13.	2.6	4.2	0.005	0.004	0.0019	0.0005
		920	10.7	81.1	3.0	208	7.8	13.	2.5	3.6	0.005	0.004	0.0017	0.0004
		940	10.6	83.9	3.8	207	8.0	14.	2.8	4.5	0.005	0.005	0.0022	0.0005
		1000	10.3	86.5	4.2	258	8.1	19.	4.6	9.5	0.009	0.008	0.0041	0.0013
		1020	10.5	86.2	3.8	256	8.2	18.	4.6	11.6	0.009	0.008	0.0048	0.0017
		1040	10.6	84.9	3.4	254	8.1	15.	3.4	7.1	0.007	0.006	0.0028	0.0010
		1100	10.4	85.2	3.0	243	8.0	13.	2.7	4.2	0.005	0.004	0.0019	0.0005
		1120	10.7	85.1	3.0	248	8.2	12.	2.6	4.3	0.005	0.004	0.0019	0.0005
		1140	11.2	81.9	2.8	162	8.2	17.	2.4	2.4	0.003	0.003	0.0011	0.0003
		1200	11.2	82.1	3.5	133	8.2	11.	2.3	5.2	0.004	0.004	0.0018	0.0007
		1220	11.2	86.4	3.2	137	8.6	17.	4.1	12.9	0.008	0.007	0.0047	0.0020
		1240	10.6	90.0	4.5	307	8.6	11.	3.8	8.9	0.009	0.008	0.0038	0.0012
		1340	10.2	92.1	3.9	270	8.6	8.	3.9	12.9	0.009	0.009	0.0047	0.0019
		1400	10.4	91.7	3.8	264	8.7	9.	4.1	11.9	0.010	0.009	0.0046	0.0017
		1420	10.3	93.2	4.7	277	8.8	25.	7.8	18.7	0.017	0.014	0.0066	0.0027
		1440	10.2	93.8	3.9	272	8.7	36.	9.3	18.4	0.019	0.016	0.0069	0.0025
		1500	10.1	93.5	4.0	266	8.6	38.	10.4	17.4	0.023	0.018	0.0068	0.0022
		1520	9.7	94.0	3.4	265	8.5	60.	14.2	19.5	0.029	0.023	0.0084	0.0023
		1540	9.9	93.2	2.7	256	8.5	47.	10.9	13.2	0.022	0.017	0.0054	0.0014
		1600	9.9	93.7	1.8	249	8.6	34.	8.1	9.7	0.017	0.013	0.0044	0.0010
		1620	10.1	94.4	1.1	186	8.7	24.	6.1	8.6	0.013	0.010	0.0037	0.0010
		1640	10.2	94.1	0.6	193	8.8	18.	5.1	7.2	0.011	0.009	0.0032	0.0008
78	208	820	10.0	95.0	2.3	285	8.8	6.	1.1	1.9	0.002	0.002	0.0006	0.0002
		840	10.2	94.3	2.3	265	8.8	10.	1.9	2.3	0.004	0.003	0.0009	0.0003
		900	9.9	93.0	2.4	278	8.5	14.	2.8	3.6	0.005	0.004	0.0015	0.0004
		920	10.5	92.1	2.9	272	8.7	16.	3.1	3.7	0.006	0.005	0.0015	0.0004
		940	10.5	91.5	3.5	276	8.7	17.	3.5	4.9	0.007	0.006	0.0020	0.0006
		1000	10.1	90.1	3.2	274	8.3	12.	2.3	2.8	0.004	0.004	0.0013	0.0003
		1020	10.5	91.3	3.4	274	8.7	10.	2.9	11.4	0.006	0.006	0.0031	0.0018
		1040	10.5	91.8	3.4	281	8.7	13.	2.6	4.3	0.005	0.004	0.0016	0.0006
		1100	9.9	93.8	2.7	272	8.6	19.	3.4	4.2	0.006	0.005	0.0016	0.0005
		1120	10.4	91.6	2.4	264	8.6	40.	7.1	5.3	0.013	0.009	0.0022	0.0004
		1220	10.8	90.3	4.4	278	8.8	56.	12.0	15.6	0.024	0.019	0.0066	0.0017
		1240	10.7	90.6	3.6	279	8.7	70.	13.1	14.8	0.024	0.018	0.0061	0.0016
		1300	10.7	91.2	3.3	275	8.8	77.	14.1	16.5	0.025	0.019	0.0068	0.0019

Table A2d — Twenty-Minute Averages of Measured and Calculated Parameters

PROGRAM A48GLT: AEROSOL DATA TABULATION (PROCESSED ON 28-APR-81)

NRL6532: ON FITZROY

YEAR	DAY	TIME	AT	RH	WS	WD	WVP	NUM	AREA	VOL	0.55	1.05	3.80	10.0
78	208	1320	10.9	88.3	3.7	271	8.6	57.	12.1	16.3	0.023	0.020	0.0071	0.0018
		1340	11.1	84.5	4.3	277	8.4	44.	10.5	15.2	0.021	0.020	0.0070	0.0017
		1400	11.2	81.7	4.7	278	8.1	40.	9.5	13.9	0.020	0.018	0.0061	0.0015
		1420	11.3	81.4	4.5	284	8.2	39.	9.7	13.9	0.020	0.019	0.0062	0.0015
		1440	11.4	83.3	4.1	280	8.4	42.	10.6	17.6	0.022	0.020	0.0074	0.0021
		1500	11.4	82.0	3.9	272	8.3	42.	10.1	14.5	0.020	0.019	0.0068	0.0016
		1520	11.5	80.9	4.2	276	8.2	35.	10.0	17.3	0.021	0.021	0.0078	0.0021
		1540	11.6	82.0	4.4	272	8.4	33.	10.1	19.1	0.022	0.022	0.0083	0.0024
		1600	11.6	80.7	4.8	276	8.2	30.	9.9	20.1	0.022	0.022	0.0085	0.0025
		1620	11.6	82.1	4.7	278	8.4	30.	10.3	22.0	0.022	0.023	0.0093	0.0028
		1640	11.6	81.6	5.0	281	8.4	27.	9.1	18.7	0.020	0.020	0.0081	0.0024
		1700	11.1	82.2	4.8	279	8.1	27.	9.9	29.3	0.021	0.022	0.0105	0.0043
		1720	11.6	78.0	4.3	266	8.0	21.	7.7	19.1	0.017	0.017	0.0077	0.0026
		1740	11.8	78.4	4.8	277	8.1	20.	6.5	13.3	0.014	0.014	0.0060	0.0017
		1800	11.4	77.8	4.8	273	7.9	19.	6.1	12.2	0.013	0.013	0.0057	0.0015
		1820	11.9	76.5	4.7	277	8.0	19.	6.0	12.0	0.013	0.013	0.0053	0.0015
		1840	10.4	79.7	4.9	278	7.5	22.	6.8	11.7	0.015	0.014	0.0051	0.0014
		1900	10.0	81.0	5.4	280	7.5	24.	6.9	14.0	0.014	0.014	0.0059	0.0018
		1920	12.1	79.8	4.6	268	8.4	28.	7.5	14.8	0.015	0.015	0.0063	0.0019
		1940	12.1	81.9	4.5	274	8.6	34.	8.3	16.0	0.017	0.015	0.0065	0.0021
		2000	11.8	83.3	4.5	275	8.6	36.	7.9	13.2	0.015	0.014	0.0061	0.0016
		2020	12.7	84.3	4.2	272	9.3	39.	8.7	13.6	0.017	0.016	0.0065	0.0016
		2040	12.7	84.9	5.1	278	9.3	55.	11.9	21.8	0.023	0.020	0.0091	0.0028
		2100	12.1	86.0	4.7	282	9.1	47.	11.6	22.4	0.023	0.021	0.0097	0.0029
78	209	1100	11.1	82.8	4.4	293	8.2	24.	12.7	38.5	0.029	0.030	0.0165	0.0055
		1120	11.2	81.9	2.8	182	8.2	17.	7.4	13.9	0.017	0.018	0.0077	0.0015
		1140	11.5	81.2	3.9	285	8.3	19.	9.4	25.1	0.022	0.022	0.0106	0.0034
		1200	11.6	83.7	4.8	278	8.6	27.	13.7	38.9	0.032	0.033	0.0168	0.0054
		1220	11.6	81.0	5.3	280	8.3	24.	11.7	31.7	0.027	0.028	0.0139	0.0043
		1240	11.6	77.6	5.2	281	7.9	21.	9.8	26.3	0.023	0.023	0.0110	0.0036
		1300	11.6	75.6	5.1	277	7.8	17.	7.7	19.2	0.017	0.018	0.0084	0.0026
		1320	11.7	76.7	5.0	281	7.9	17.	7.4	19.9	0.016	0.018	0.0088	0.0027
		1340	11.4	79.4	4.8	277	8.0	17.	8.8	24.9	0.020	0.021	0.0100	0.0035
		1400	11.6	79.3	4.7	272	8.1	16.	8.6	24.2	0.020	0.020	0.0102	0.0034
		1420	11.6	80.1	4.8	280	8.2	18.	8.8	25.4	0.020	0.021	0.0111	0.0035
		1440	11.7	79.3	4.7	278	8.2	18.	9.0	25.0	0.021	0.021	0.0110	0.0034
		1500	11.7	80.0	4.6	275	8.3	21.	10.5	27.4	0.025	0.024	0.0119	0.0037
		1520	11.8	79.9	4.8	274	8.3	21.	9.9	26.5	0.022	0.023	0.0117	0.0036
		1540	11.8	79.5	4.8	273	8.2	21.	9.8	26.4	0.023	0.023	0.0113	0.0036
		1600	11.8	79.8	5.0	272	8.3	26.	10.9	29.9	0.024	0.025	0.0125	0.0041
		1620	11.7	81.5	4.6	271	8.4	28.	13.6	38.0	0.031	0.032	0.0160	0.0053
78	210	820	11.0	91.6	4.8	278	9.0	27.	52.2	151.5	0.128	0.143	0.0874	0.0190
		840	11.4	88.9	5.3	287	8.9	18.	14.8	45.9	0.035	0.038	0.0206	0.0064

Table A2e — Twenty-Minute Averages of Measured and Calculated Parameters

PROGRAM A48GLT: AEROSOL DATA TABULATION (PROCESSED ON 28-APR-81)

NPL6532: ON FITZROY

YEAR	DAY	TIME	AT	RH	WS	WD	WVP	NUM	AREA	VOL	0.55	1.05	3.80	10.0
78	210	900	11.0	89.2	5.3	287	8.8	19.	14.8	44.1	0.036	0.037	0.0198	0.0062
		920	11.3	89.7	4.4	284	9.0	20.	18.2	60.3	0.044	0.046	0.0266	0.0086
		940	11.2	89.8	4.4	284	9.0	22.	21.9	99.5	0.051	0.053	0.0378	0.0156
		1000	11.4	88.0	3.9	278	8.9	19.	14.7	42.0	0.036	0.037	0.0196	0.0058
		1020	11.2	88.2	4.6	277	8.8	19.	12.5	37.4	0.029	0.031	0.0162	0.0052
		1040	11.5	88.1	4.2	280	8.9	17.	12.5	40.9	0.029	0.032	0.0182	0.0059
		1100	11.1	90.6	4.5	293	8.9	17.	12.4	41.5	0.029	0.031	0.0174	0.0059
		1140	11.7	86.9	5.2	297	9.0	18.	12.6	40.6	0.030	0.031	0.0166	0.0058
		1200	11.0	89.1	5.0	291	8.8	21.	12.6	41.9	0.029	0.031	0.0171	0.0061
		1220	11.8	86.7	4.2	288	8.9	19.	12.2	36.8	0.029	0.030	0.0157	0.0052
		1240	11.8	86.9	3.8	285	9.0	18.	11.5	35.6	0.027	0.027	0.0148	0.0051
		1300	11.3	89.2	4.4	295	8.9	19.	10.7	31.1	0.025	0.025	0.0134	0.0044
		1320	11.9	87.0	4.3	286	9.1	18.	10.1	32.7	0.023	0.024	0.0136	0.0047
		1340	7.4	107.0	5.4	298	8.2	26.	10.8	28.2	0.025	0.023	0.0118	0.0040
		1400	11.9	86.5	4.8	292	9.0	16.	8.7	26.8	0.020	0.021	0.0114	0.0039
		1420	11.3	88.5	4.6	294	8.9	22.	8.6	21.7	0.019	0.019	0.0097	0.0030
		1440	11.9	86.8	4.2	290	9.1	29.	11.4	30.4	0.025	0.025	0.0127	0.0042
		1500	12.0	86.7	4.6	295	9.1	42.	15.3	35.4	0.034	0.034	0.0157	0.0047
78	211	840	11.8	92.5	5.1	297	9.6	92.	31.1	84.3	0.066	0.060	0.0353	0.0121
		900	11.8	90.2	5.5	300	9.4	89.	24.2	47.4	0.050	0.044	0.0213	0.0062
		920	11.2	93.6	5.0	302	9.3	95.	27.5	61.4	0.056	0.050	0.0270	0.0084
		940	11.9	88.7	4.7	301	9.2	75.	20.8	43.5	0.043	0.038	0.0195	0.0058
		1000	11.1	91.5	4.4	297	9.0	84.	21.9	44.7	0.044	0.038	0.0200	0.0060
		1020	11.8	88.5	4.2	297	9.2	73.	20.6	45.5	0.042	0.037	0.0198	0.0062
		1040	11.8	87.9	4.6	292	9.1	74.	19.7	42.6	0.039	0.035	0.0191	0.0058
		1100	11.0	89.4	4.7	298	8.8	80.	19.3	37.3	0.038	0.032	0.0163	0.0050
		1200	11.1	86.2	4.3	300	8.5	71.	14.7	23.3	0.028	0.023	0.0102	0.0029
		1220	11.8	84.1	4.0	301	8.7	63.	13.3	21.8	0.025	0.022	0.0095	0.0028
		1240	11.9	84.0	3.9	296	8.7	60.	13.0	19.3	0.025	0.022	0.0085	0.0023
		1300	11.2	85.3	4.1	300	8.5	62.	13.1	18.3	0.025	0.021	0.0079	0.0021
		1320	11.8	83.6	3.8	297	8.7	54.	12.1	17.5	0.024	0.021	0.0078	0.0020
		1340	11.6	85.5	3.6	296	8.7	50.	11.1	16.5	0.022	0.020	0.0076	0.0019
		1400	11.9	83.5	3.9	296	8.7	41.	9.5	14.9	0.019	0.017	0.0067	0.0018
		1420	12.0	84.4	3.5	301	8.9	38.	9.8	18.1	0.020	0.019	0.0081	0.0023
		1440	12.0	85.2	3.2	303	8.9	37.	9.5	15.6	0.019	0.018	0.0077	0.0018
		1500	12.0	84.4	3.0	294	8.8	34.	7.9	12.9	0.015	0.014	0.0061	0.0016
78	212	800	11.9	101.0	4.7	293	10.5	152.	62.9	119.7	0.152	0.129	0.0430	0.0152
		820	11.9	100.0	4.8	295	10.4	106.	42.8	93.6	0.101	0.086	0.0335	0.0126
		840	11.8	100.0	4.5	297	10.4	79.	33.5	83.0	0.079	0.068	0.0305	0.0117
		900	11.9	99.7	4.2	304	10.4	62.	25.0	62.7	0.058	0.049	0.0234	0.0089
		920	11.9	99.2	4.6	299	10.4	57.	23.3	64.1	0.053	0.046	0.0242	0.0093
		940	11.9	99.3	4.8	305	10.3	130.	55.5	113.5	0.134	0.112	0.0442	0.0149
		1000	11.8	99.4	5.3	301	10.3	133.	61.2	152.6	0.146	0.125	0.0575	0.0214

Table A2f — Twenty-Minute Averages of Measured and Calculated Parameters

PROGRAM A48GLT: AEROSOL DATA TABULATION (PROCESSED ON 28-APR-81)

NRL6532: ON FITZROY

YEAR	DAY	TIME	AT	RH	WS	WD	WVP	NUM	AREA	VOL	0.55	1.05	3.80	10.0
78	212	1020	11.8	99.0	5.5	300	10.3	91.	40.1	101.7	0.094	0.082	0.0396	0.0143
		1040	11.7	98.7	5.5	301	10.2	89.	40.8	119.9	0.094	0.081	0.0462	0.0175
		1100	11.0	103.0	5.3	300	10.1	86.	42.7	144.6	0.099	0.085	0.0552	0.0218
		1140	11.9	97.9	4.4	316	10.2	45.	25.8	88.5	0.060	0.055	0.0366	0.0132
		1200	12.0	97.3	4.3	305	10.2	52.	23.6	64.1	0.053	0.050	0.0276	0.0090
		1220	12.0	95.8	5.3	301	10.0	95.	50.4	154.9	0.117	0.108	0.0635	0.0226
		1240	11.6	94.2	5.2	304	9.6	96.	31.4	65.4	0.070	0.059	0.0277	0.0087
		1300	11.5	93.8	4.9	301	9.5	90.	26.7	58.6	0.056	0.049	0.0241	0.0081
		1320	11.1	96.0	5.5	302	9.5	101.	61.0	331.8	0.144	0.119	0.0732	0.0538
		1340	10.5	99.6	6.0	297	9.4	122.	552.0	6943.6	1.185	1.229	1.1603	1.2013
		1400	10.6	97.9	5.5	298	9.4	78.	95.3	924.7	0.215	0.199	0.1615	0.1581
		1420	11.1	93.5	5.2	297	9.3	41.	14.8	41.2	0.032	0.028	0.0160	0.0060
		1440	11.7	90.8	5.3	300	9.3	27.	14.0	44.6	0.032	0.031	0.0182	0.0065
		1500	10.6	104.0	5.7	301	9.9	22.	15.4	48.3	0.037	0.036	0.0201	0.0069
78	213	840	12.0	99.6	5.0	277	10.4	126.	87.6	462.7	0.212	0.193	0.1005	0.0738
		900	12.0	99.8	5.4	277	10.5	162.	165.6	1378.1	0.382	0.364	0.2517	0.2308
		920	12.1	99.6	5.4	278	10.5	149.	101.0	602.4	0.236	0.212	0.1334	0.0984
		940	12.1	99.3	5.0	278	10.5	144.	81.3	361.3	0.192	0.167	0.0957	0.0572
		1000	12.1	99.4	4.7	275	10.5	156.	73.6	273.9	0.175	0.144	0.0709	0.0422
		1020	12.2	99.0	4.7	275	10.5	155.	58.0	159.1	0.135	0.103	0.0458	0.0237
		1040	12.2	99.0	4.8	274	10.5	190.	128.3	806.9	0.302	0.271	0.1556	0.1316
		1100	12.2	99.5	4.4	271	10.6	275.	351.9	3239.6	0.801	0.808	0.5599	0.5408
		1120	12.3	99.5	4.6	273	10.6	370.	522.6	5189.4	1.173	1.196	0.8723	0.8692
		1140	12.3	99.7	4.7	274	10.7	439.	537.8	5035.1	1.219	1.229	0.8521	0.8406
		1200	12.3	99.8	4.2	276	10.7	424.	411.6	3182.7	0.952	0.955	0.5760	0.5255
		1220	12.3	99.9	3.5	268	10.7	419.	409.9	3175.9	0.949	0.954	0.5725	0.5248
		1240	12.3	99.7	3.5	269	10.7	416.	310.1	2109.5	0.722	0.697	0.3883	0.3446
		1300	12.3	99.8	3.7	271	10.7	497.	389.4	2549.9	0.917	0.897	0.4746	0.4146
78	215	840	11.5	78.5	4.9	301	8.0	4.	2.6	7.7	0.006	0.006	0.0035	0.0011
		900	11.6	77.1	4.9	299	7.9	4.	2.4	7.6	0.005	0.006	0.0034	0.0011
		920	11.4	83.4	5.4	294	8.4	8.	5.1	16.3	0.012	0.012	0.0071	0.0023
		940	11.4	86.3	5.7	295	8.7	10.	6.5	22.3	0.015	0.015	0.0093	0.0033
		1000	11.2	86.4	6.2	290	8.6	12.	6.5	21.1	0.015	0.015	0.0093	0.0030
		1020	11.2	85.1	5.6	293	8.5	10.	5.4	18.4	0.012	0.013	0.0075	0.0027
		1040	11.1	85.3	5.8	297	8.5	14.	5.5	14.4	0.012	0.012	0.0063	0.0020
		1100	11.3	83.4	5.3	298	8.4	14.	5.5	16.2	0.012	0.012	0.0067	0.0023
		1120	12.0	78.6	3.4	180	8.3	12.	4.2	7.5	0.010	0.009	0.0038	0.0009
		1140	11.6	80.2	5.2	309	8.2	13.	5.3	13.3	0.012	0.011	0.0058	0.0018
		1200	11.5	80.7	5.3	295	8.2	13.	5.6	14.2	0.013	0.012	0.0064	0.0020
		1220	11.3	82.9	5.8	295	8.3	14.	5.6	15.9	0.012	0.012	0.0069	0.0022
		1240	10.9	86.9	5.7	290	8.5	22.	8.6	25.6	0.019	0.017	0.0106	0.0038

Table A3 — Bin-Edge Locations for Probes in Table A1

Particle Radius (μm)	
ASASP Probe 1	CSASP Probe 2
0.1	0.75
0.135	1.7
0.17	2.65
0.205	3.6
0.24	4.55
0.275	5.5
0.31	6.45
0.35	7.4
0.4	8.35
0.45	9.3
0.5	10.25
0.55	11.2
0.6	12.15
0.65	13.1
0.7	14.05
0.75	15.0

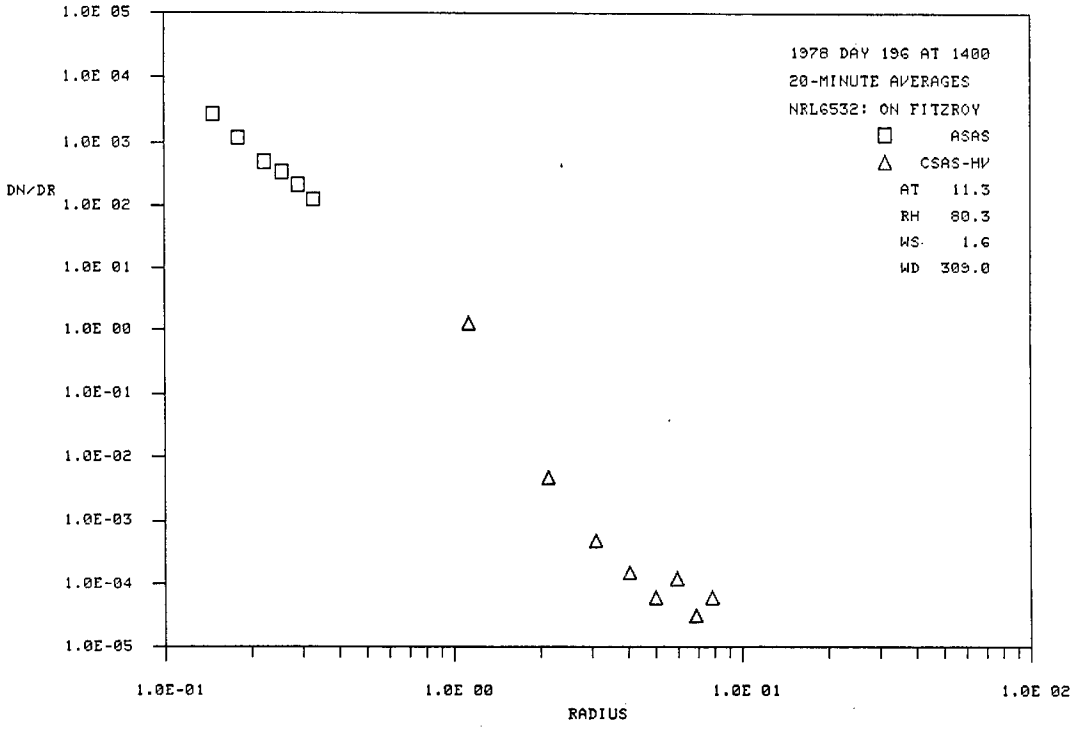

Fig. A1a

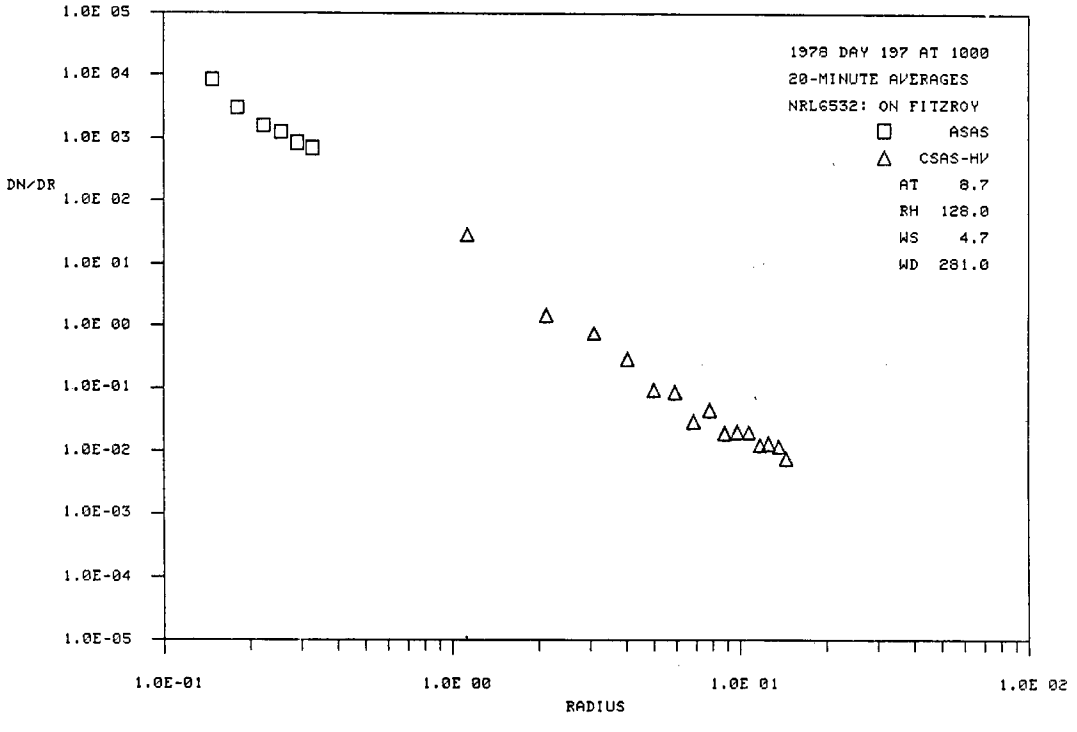

Fig. A1b

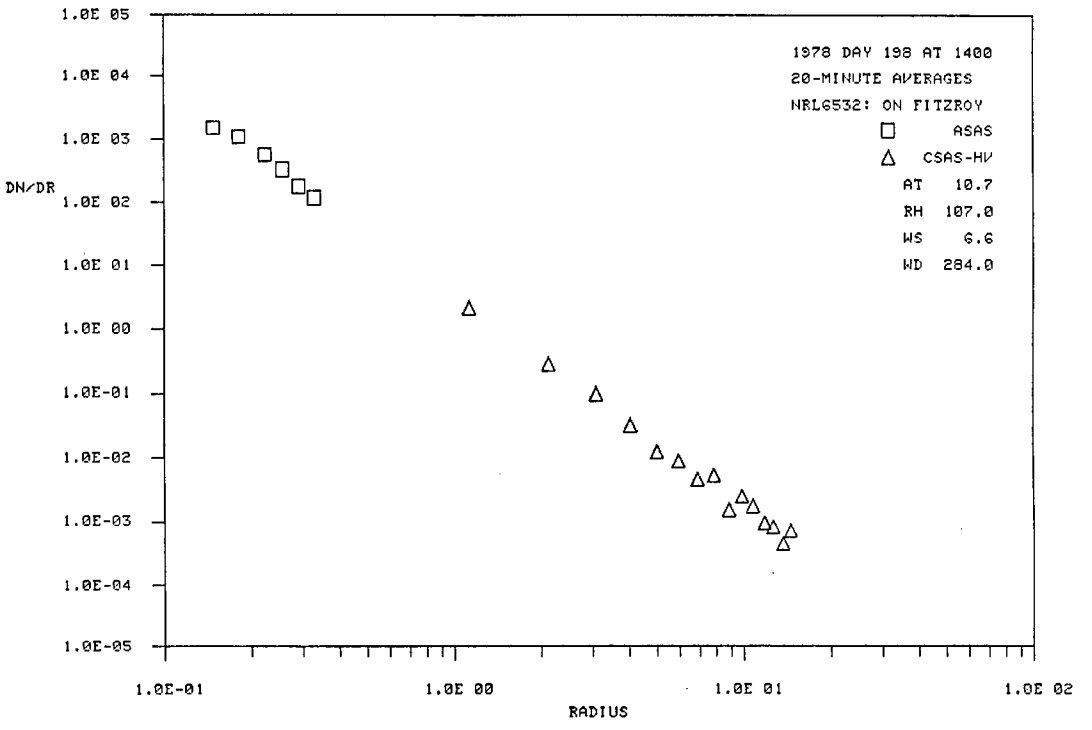

Fig. A1c

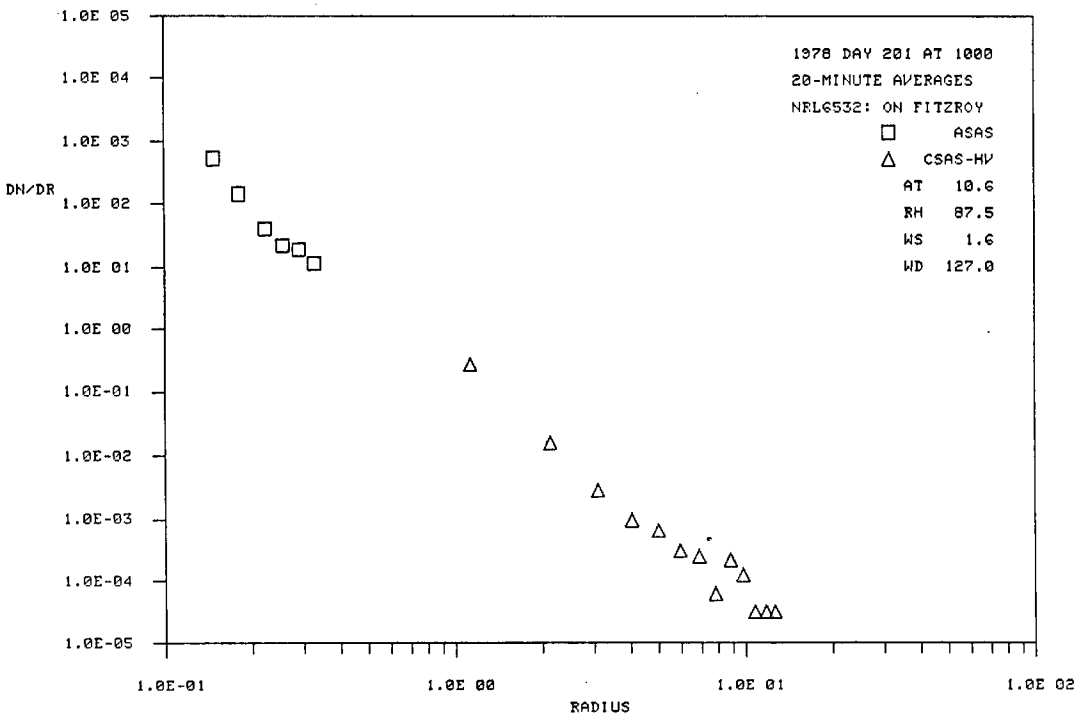

Fig. A1d

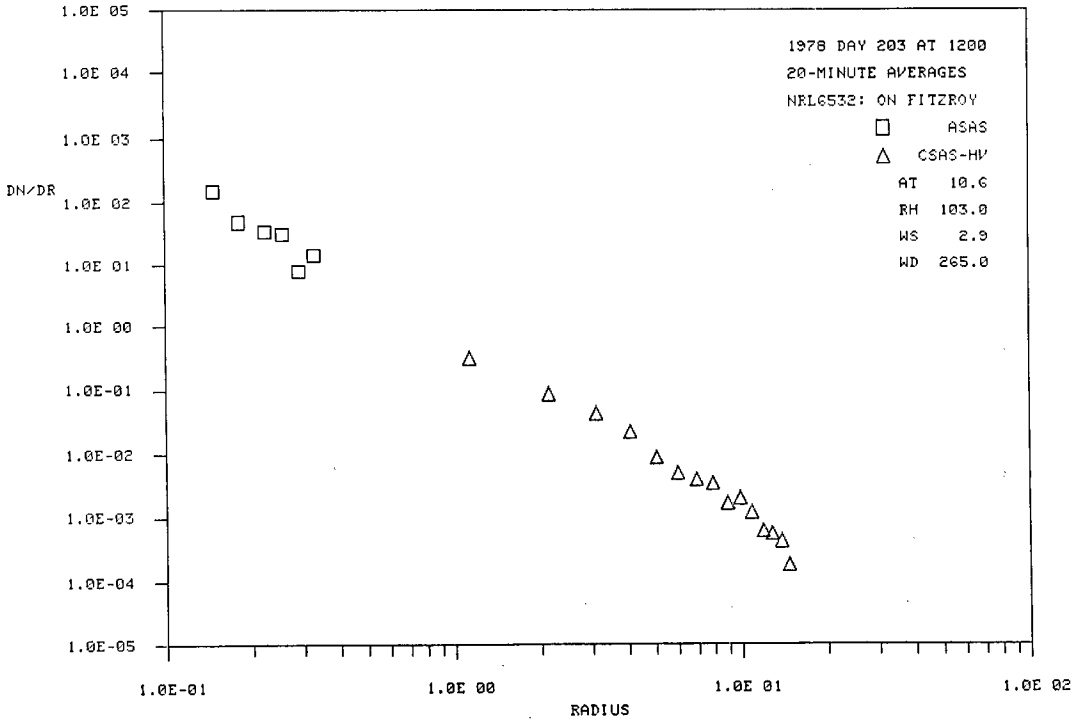

Fig. A1e

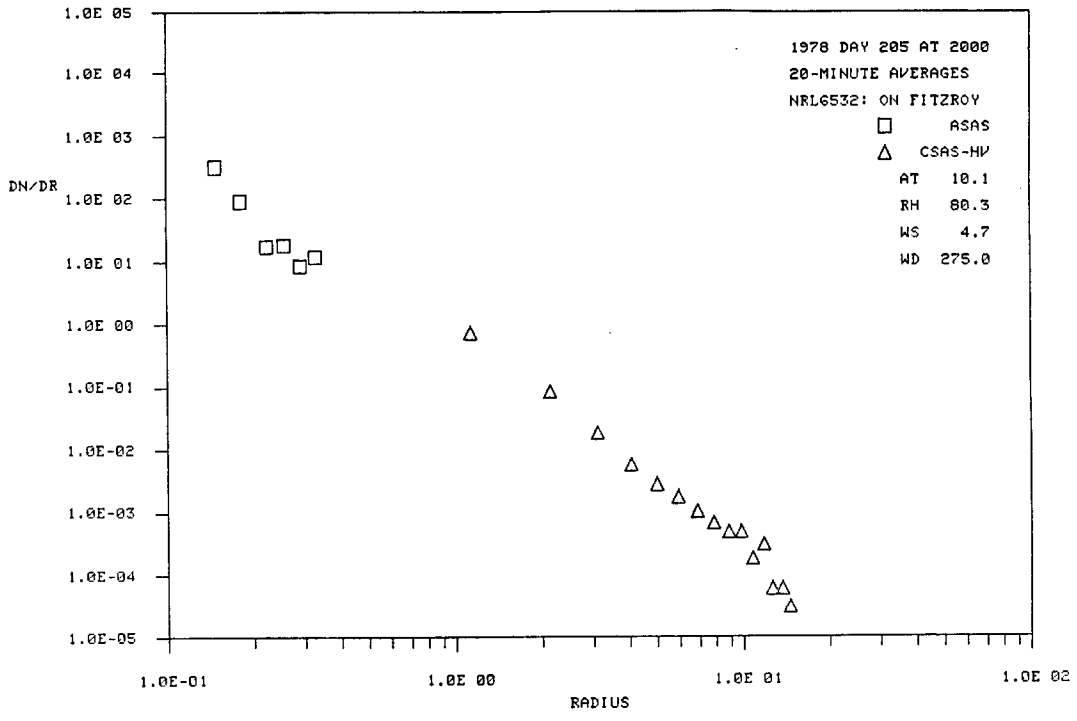

Fig. A1f

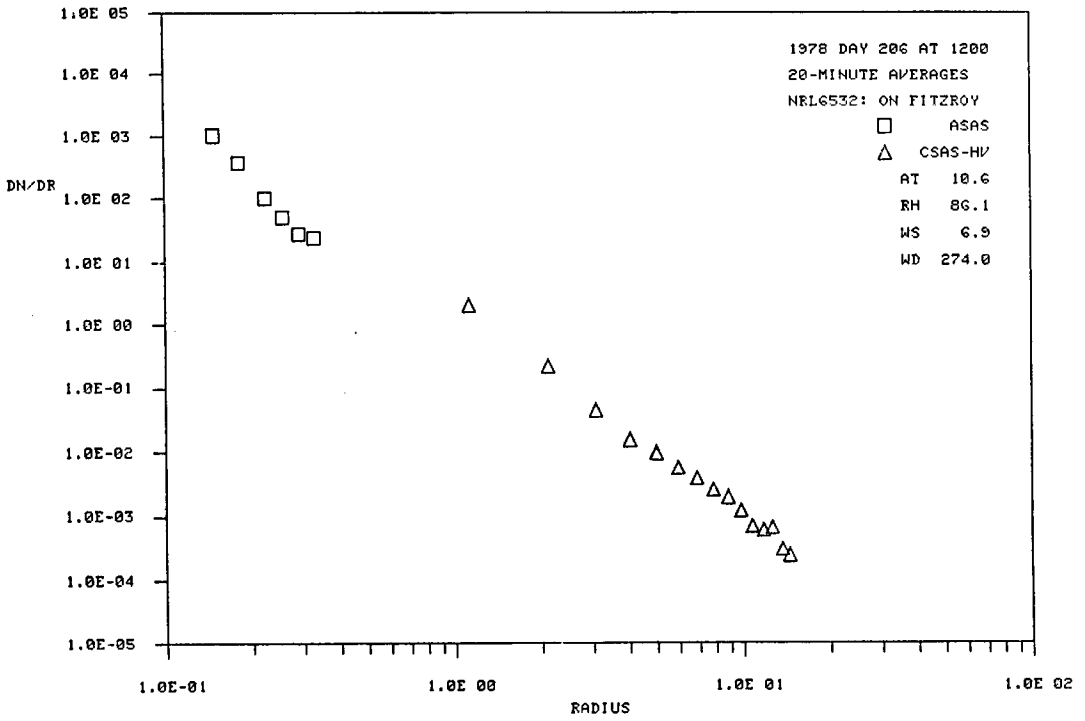

Fig. A1g

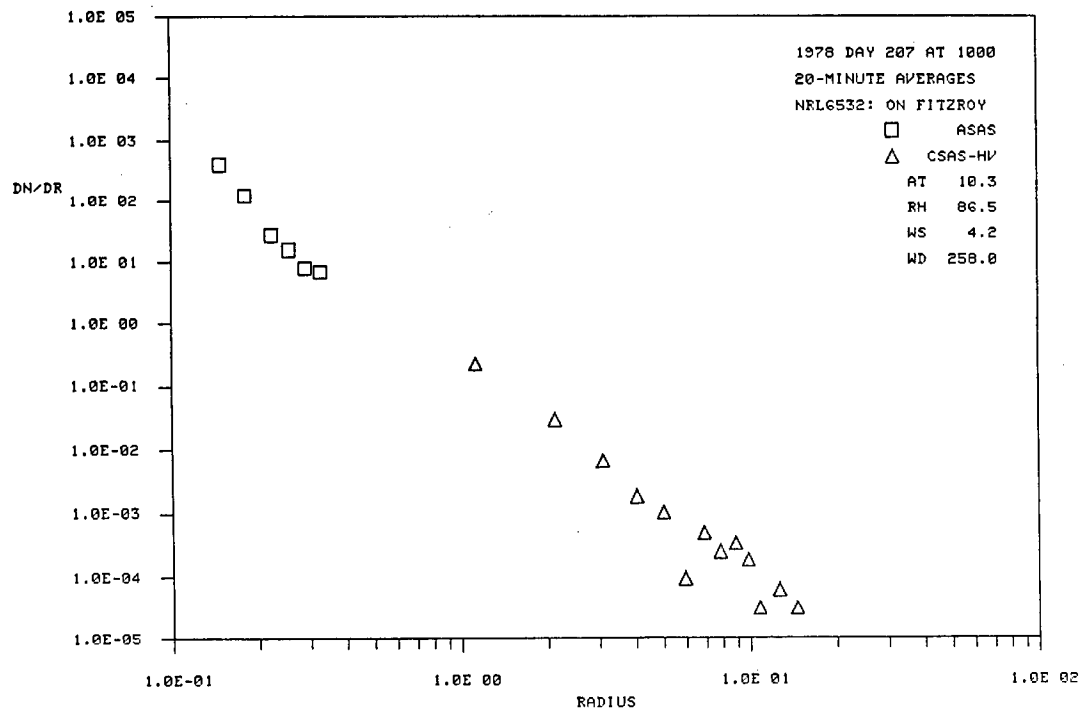

Fig. A1h

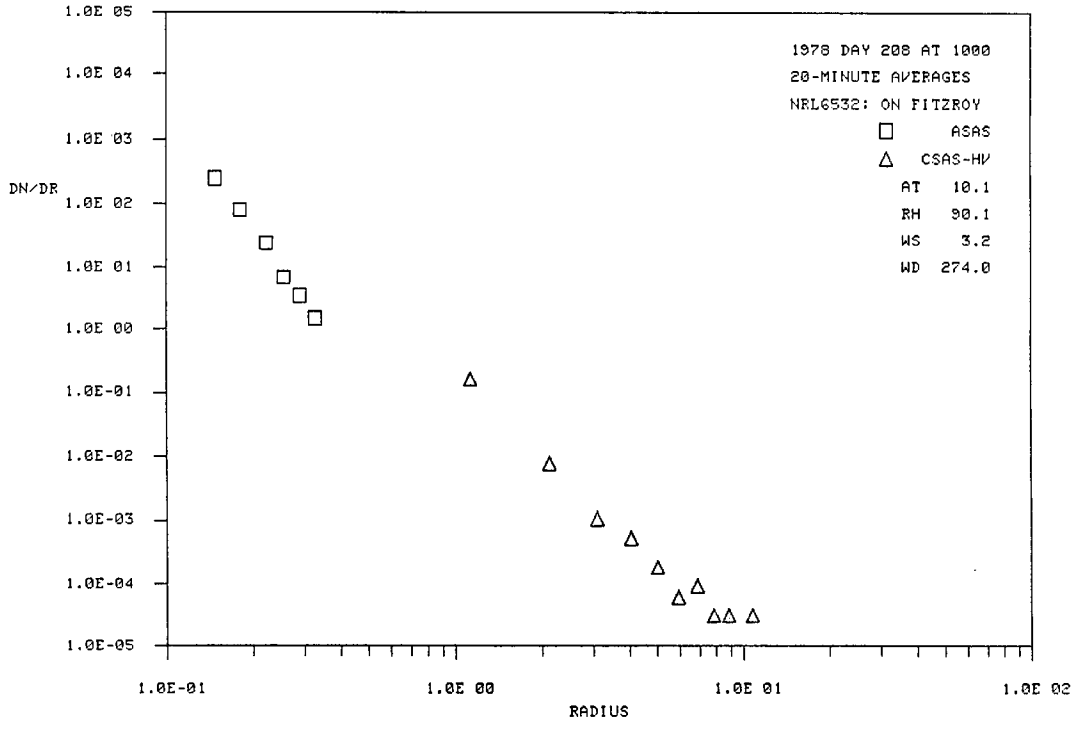

Fig. A1i

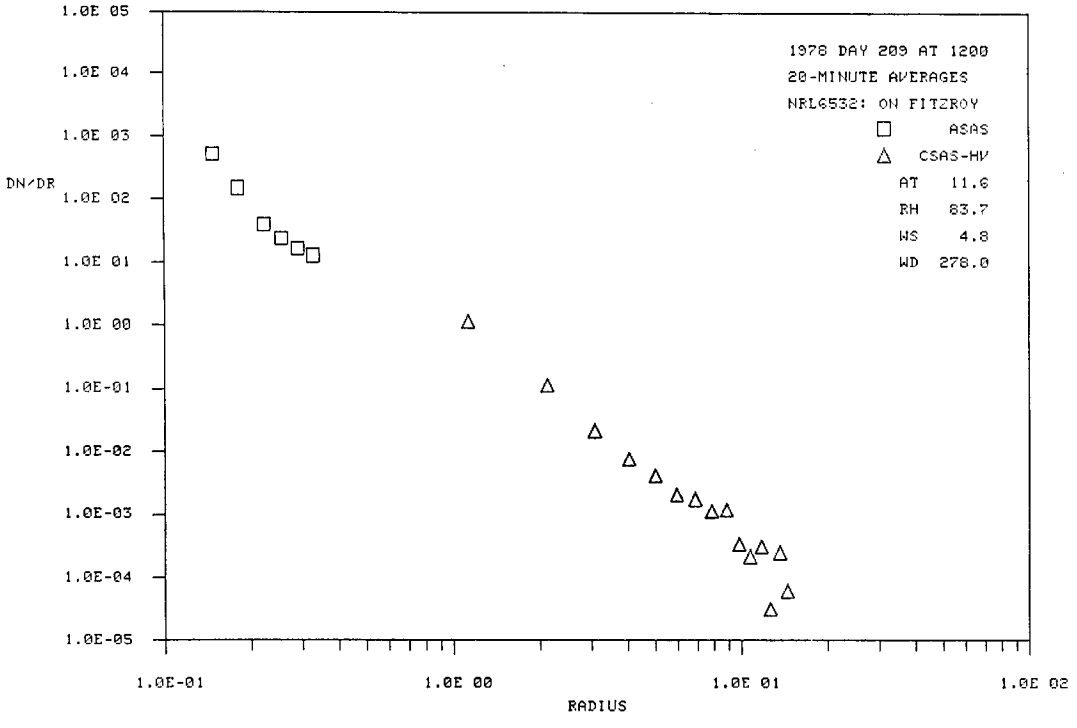

Fig. A1j

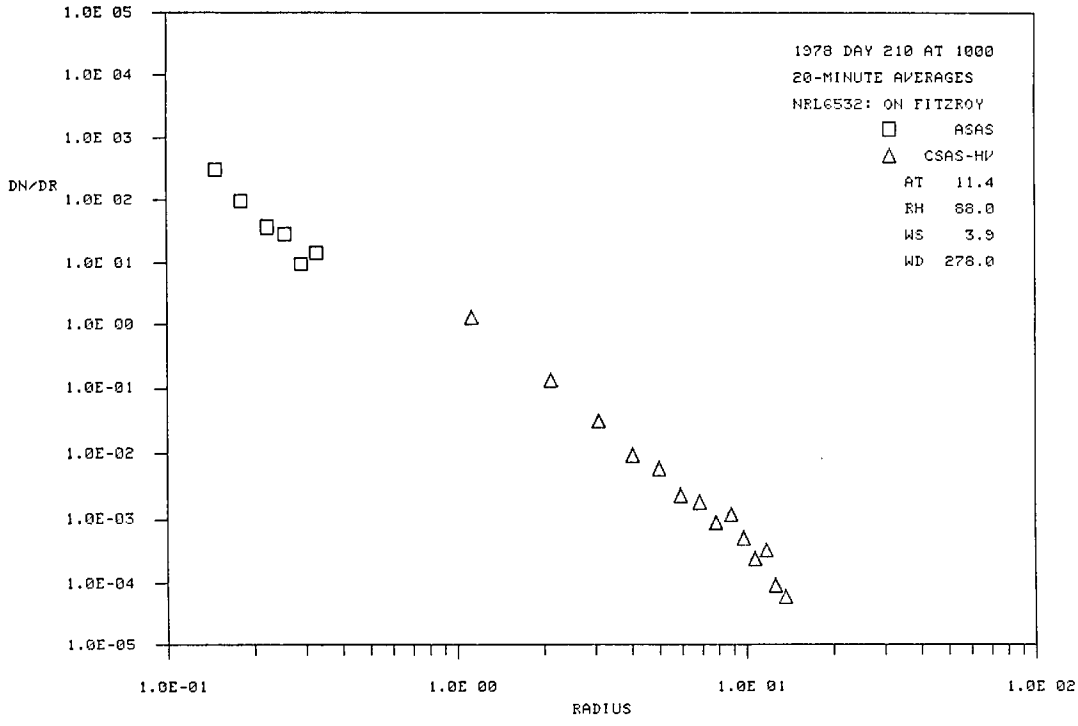

Fig. A1k

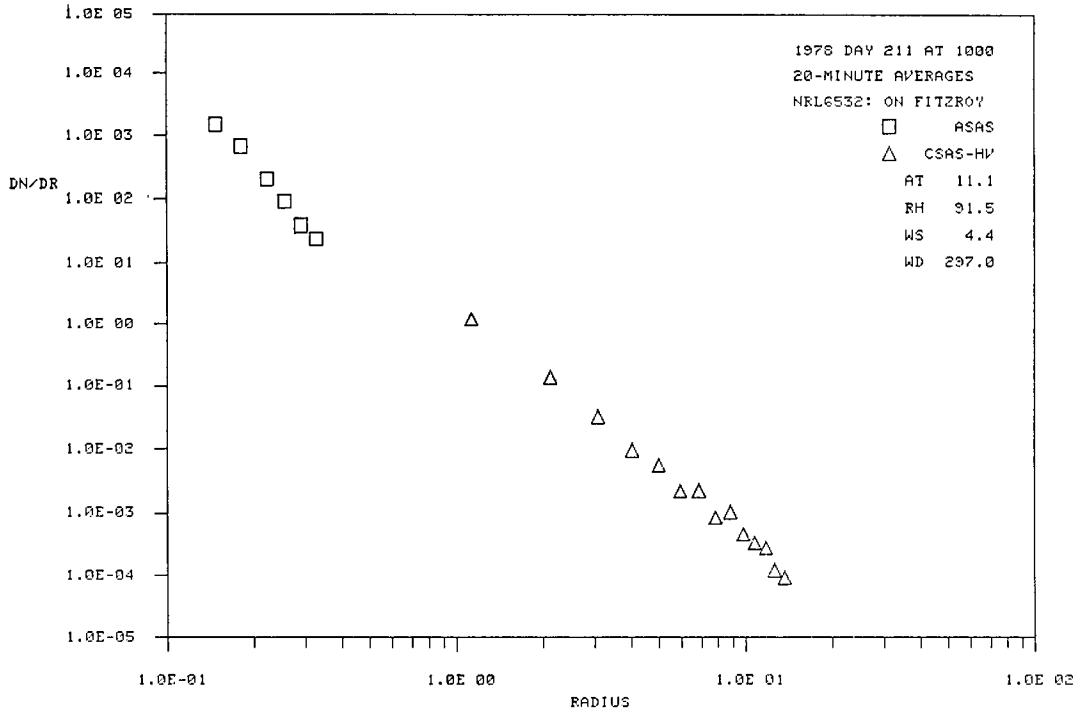

Fig. A1l

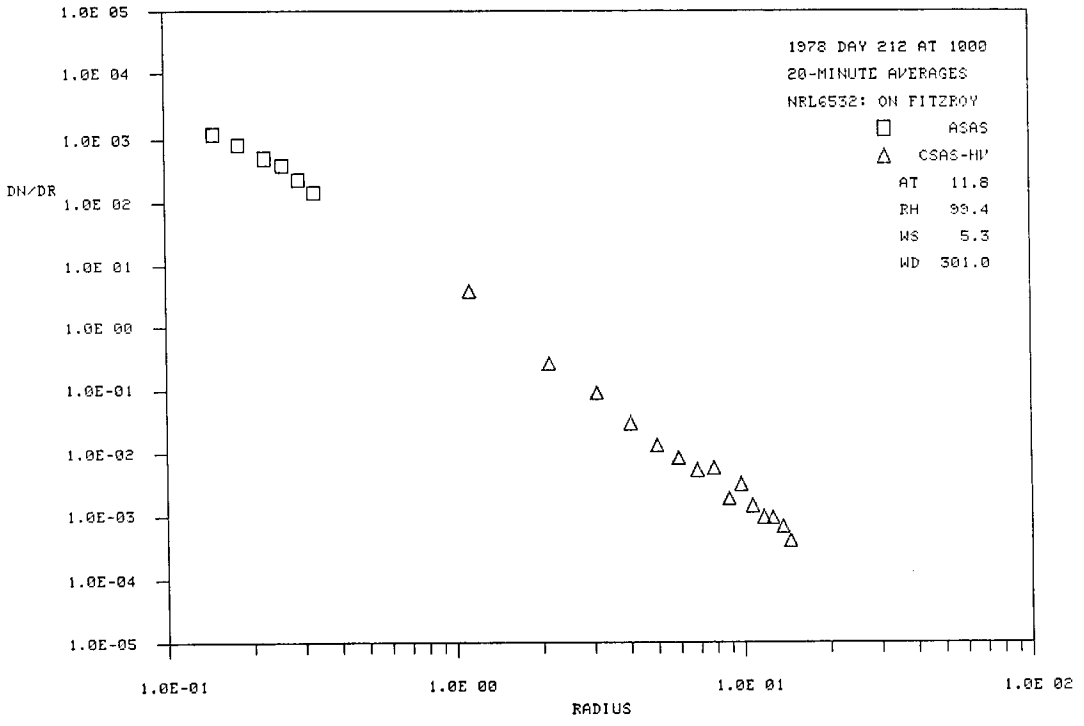

Fig. A1m

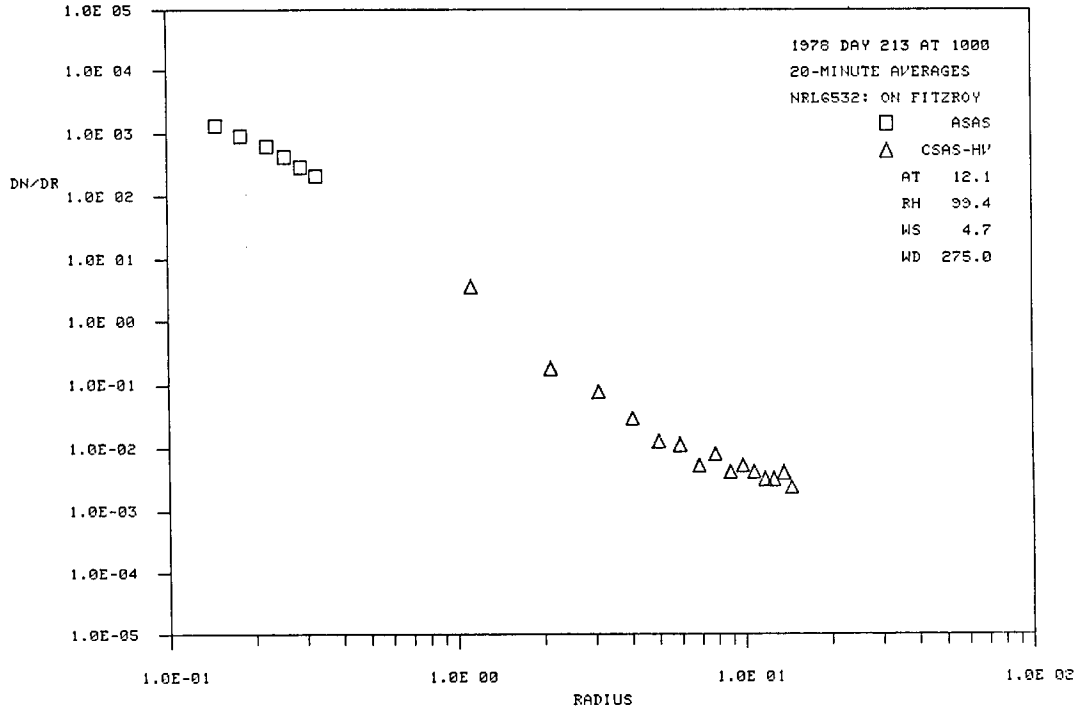

Fig. A1n

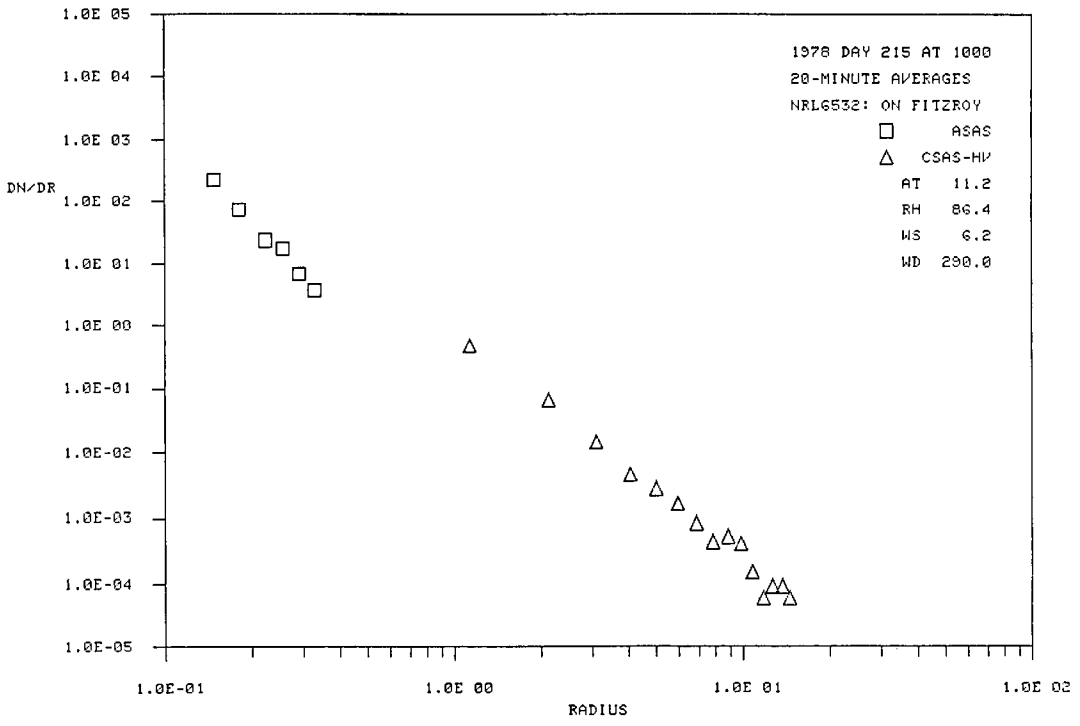
1.0E 05
1.0E 04
1.0E 03
DN/DR
1.0E 02
1.0E 01
1.0E 00
1.0E-01
1.0E-02
1.0E-03
1.0E-04
1.0E-05
1.0E-01
1.0E 00
1.0E 01
1.0E 02
RADIUS
1978 DAY 215 AT 1000
20-MINUTE AVERAGES
NRL6532: ON FITZROY
ASAS
CSAS-HV
AT 11.2
RH 86.4
WS 6.2
WD 290.0

Fig. A1o