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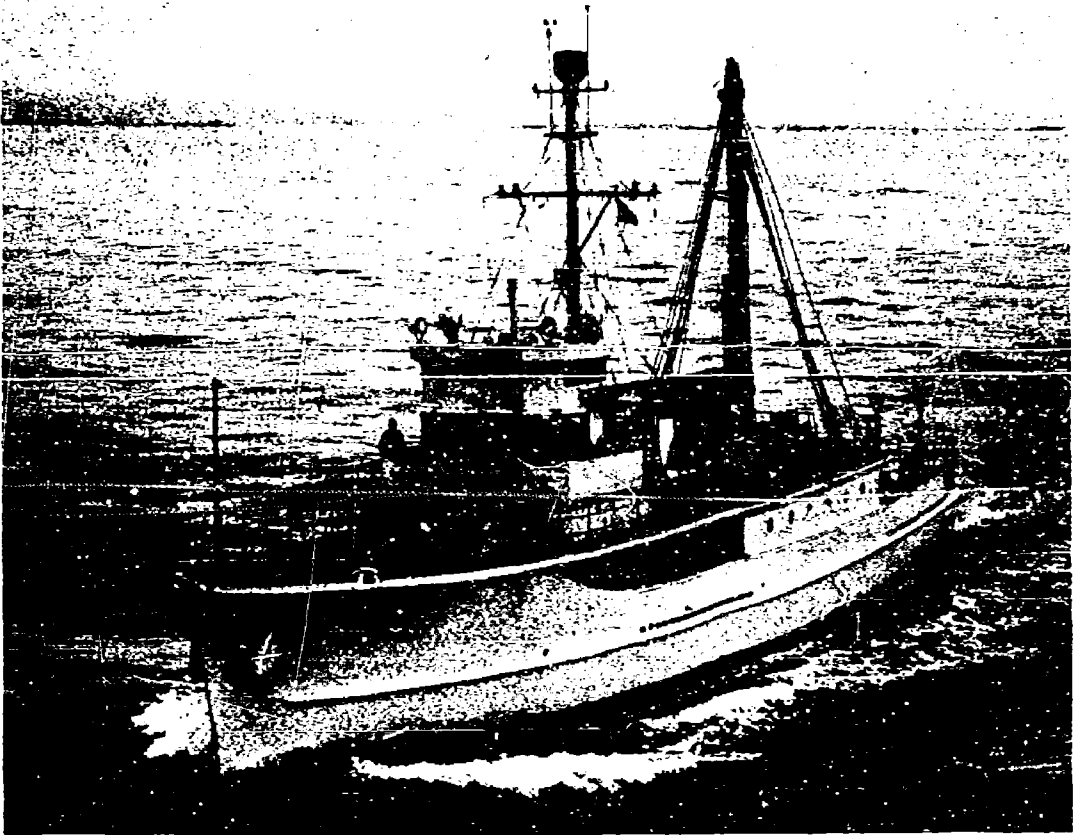
**METEOROLOGICAL OBSERVATIONS
FROM THE
CRUISES OF THE "CREST" AND THE "HORIZON"
SUMMERS OF 1949 AND 1950**

**TECHNICAL REPORT NO. 1
SUBTROPICAL PACIFIC METEOROLOGY PROJECT**

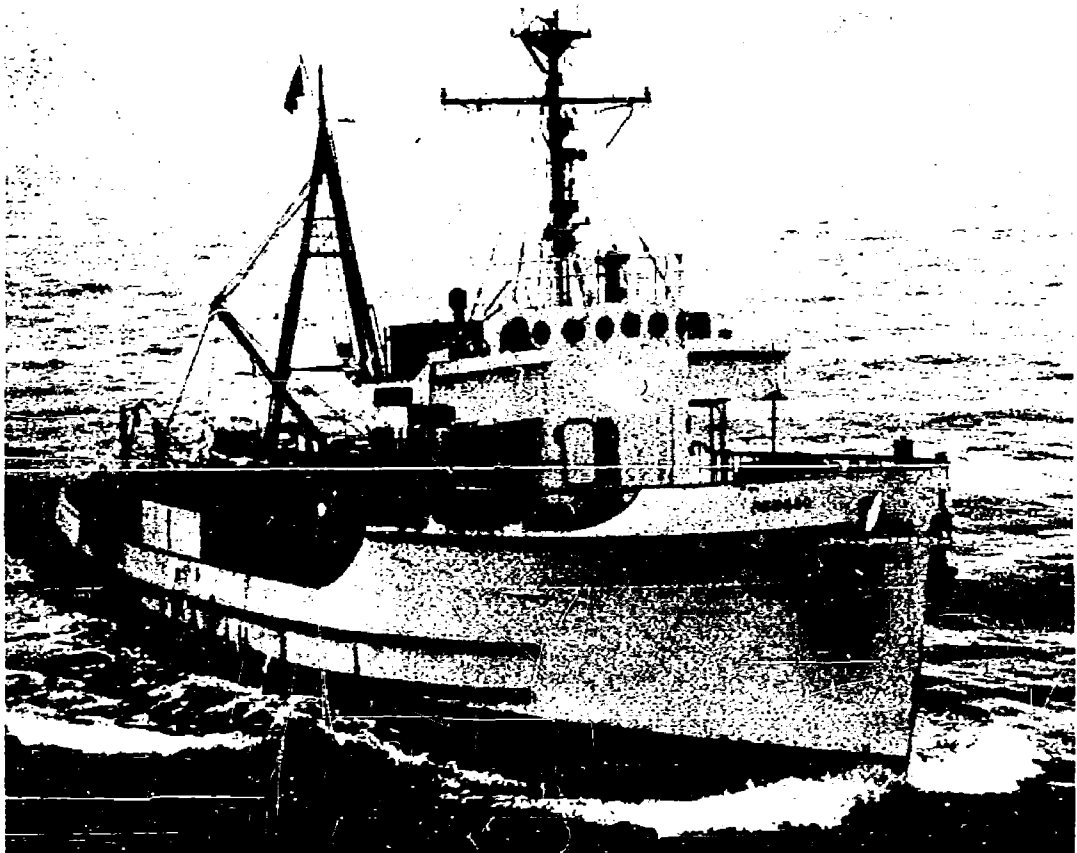
**PROJECT NR-082-065 CONTRACT N6ONR 27514
OFFICE OF NAVAL RESEARCH**

**DEPARTMENT OF METEOROLOGY
UNIVERSITY OF CALIFORNIA
LOS ANGELES 24, CALIF.
SEPTEMBER 30, 1952**

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NORTH PACIFIC OCEAN



The "CREST"



The "HORIZON"

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I. INTRODUCTION

The launching, in 1949, of an extensive oceanographic investigation off the west coast of the United States and Lower California by the Scripps Institution of Oceanography of the University of California made it possible for the first time systematically to obtain observations of the three-dimensional structure of the atmosphere over this region. In this investigation, known as the Marine Life Research Program, it was planned to have three ships taking simultaneous 14 day cruises every month, each covering a 500 mile square adjacent to the coast. It was anticipated that meteorological data taken during these cruises would answer questions regarding the structure of the subtropical anticyclone, and thus contribute to the understanding of the general circulation of the atmosphere, in addition to filling a gap in the areal coverage of upper air climatological data. The Department of Meteorology of the University of California therefore undertook to carry out meteorological observations on these cruises.

It had been hoped that all three ships could be equipped for meteorological observations, including radiosonde and radar wind observations. Funds were available, however, only for equipping one ship, the "Crest," with radiosonde equipment, and the air search radar needed for wind observations could not be obtained. In so far as possible the "Crest" was operated over the southern part of the off-shore strip, so that the radiosonde data would be obtained from the region most interesting from the meteorological standpoint. The observations were limited,

in 1949 and 1950, to the three summer months, when it was expected that quasi-stationary conditions would prevail.

The July, August, and September, 1949, cruises each covered the 500 mile square off Lower California, as shown on the maps on pages 17 and 18. In 1950 the "Crest" cruises covered three different regions off the coast of the State of California, as shown on pages 18 and 19.

In 1950 a joint expedition known as "Operation Mid-Pacific" was conducted by the University of California and the U.S. Navy. The Department of Meteorology conducted a program of meteorological observations aboard the "Horizon" during the portion of this cruise extending southwestward from San Diego, Calif. to a point at 4.6°N , 140.0°W , and thence northwestwards to Honolulu, Hawaii, as shown on page 20.

In the summer of 1951 the task of taking meteorological observations aboard the "Crest" was taken over by the U. S. Weather Bureau, under a cooperative agreement with the University of California and the Office of Naval Research. From August 1951 through September 1952 these observations were made every month, and disseminated and published through the normal channels.

Analyses of the 1949 and 1950 data will be the subject of technical reports to be issued by this project in the near future. However there have already been several expressions of interest in the observations, themselves, and as they constitute a body of information from regions where no previous upper-air observations have been made, it has been decided to reproduce them. This report therefore consists of a description of the observations and how they were made, followed by presentation of the detailed observations.

The project has been under the general supervision of M. Neiburger. David S. Johnson was in direct charge of the instrumental and observational program. Much of the equipment used in the meteorological observations, and most of the supplies, were government furnished. Although he was not employed on the project, John Y. Gilbert helped materially in setting up the instrumental program.

The personnel engaged in taking the meteorological observations on the various cruises were either graduate students or staff members of the Department of Meteorology. The observers on the cruises were:

1949 "Crest" Cruises

July, August, and September: Ephriam Regelson, supervising;
James A. Bartlett.

Frank Arsenault assisted on the July cruise.

Yale Mintz assisted on the August cruise.

1950 "Crest" Cruises

July: George Waldor, supervising; William W. Boede.

August: W.W. Boede, supervising; Steacy Hicks, Robert Kartrude.

September: Steacy Hicks, Robert Kartrude, Harold V. Thompson.

1950 "Horizon" Cruise

David S. Johnson, supervising; James G. Edinger, Leon Sherman.

On all the cruises, the ships' crews and marine technicians provided assistance and cooperation of great value in carrying out the observational program. Assistance in time, equipment and supplies was received from many at the Scripps Institution of Oceanography, and also from the U.S. Weather Bureau and the Navy Weather Central, Naval Air Station, San Diego, California.

In the checking and compilation of the observations, and their prepara-

tion for duplication, various workers on the Subtropical Pacific Project participated. David S. Johnson was in charge of the work most of the time. Several of the observers assisted with checking. Laurence E. Eber and Humberto Tiburcio did much of the work of rechecking, compiling, and preparing for duplication, and Mrs. Naomi Golding did most of the typing of the observations. A.H. Thompson took charge of the later phases of preparing the report.

II. INSTRUMENTATION AND OBSERVATIONAL PROCEDURE

1. GENERAL

The two University of California vessels on which detailed meteorological observations were taken in 1949 and 1950 are ships obtained from the Navy following World War II.

The motor vessel "Crest," (see Frontispiece), is a converted mine sweeper completely refitted for oceanographic and marine meteorological research. The ship, of wood construction, is 136 feet long at the water line with a beam of $24\frac{1}{2}$ feet and a displacement of 206 tons.

The meteorology section was located on the starboard side in the after laboratory and just forward of the afterdeck. The radiosonde ground station, meteorological instruments, plotting equipment and working area were located together in this section. The afterdeck was used as the radiosonde inflation and launching area.

The motor vessel "Horizon" is also shown on the frontispiece. It was converted from an ATA class, sea-going tug to a long-range oceanographic research vessel capable of handling heavy equipment. This ship is 143 feet long at the mean water line with a beam of 33 feet and a displacement of 760 tons. A central meteorological section was located in the after laboratory of the "Horizon" on the port side. Balloon inflation and launching facilities were located on the forward deck between the bow and superstructure. This illogical area was chosen for balloon work as it was the only clear area on the ship. The problems of balloon and radiosonde handling encountered at this breeziest and most oscillatory position on the ship were solved only after a considerable number of trials and errors had been made.

The location of the individual meteorological instruments aboard the ships is presented in the following sections which describe the measurement of the individual meteorological elements. Surface observations were taken every six hours on the "Crest" and every three hours on the "Horizon," in addition to observations at the time of release of each radiosonde. In general, the U.S. Weather Bureau procedures outlined in the "Manual of Marine Meteorological Observations"¹ were followed.

2. SURFACE PRESSURE

The standard of pressure measurement used on the cruises was the Wallace and Tiernan Type FA-126 aneroid barometer. Repeated checking of these instruments against Fortin type mercurial barometers at shore stations showed an accuracy of ± 0.1 millibar which is exceptional for this type of instrument. The type of construction used provided a rugged instrument with high sensitivity unaffected by the vibration encountered on shipboard.

A Green type 28, fixed cistern, shipboard mercurial barometer was included on the cruise of the "Horizon" in 1950. However, it was of little use as the effects of pumping and the roll and pitch of the ship prevented the obtaining of reliable readings.

The surface pressure on all the cruises was continuously recorded by Julien P. Friez Type 790 microbarographs. The pressure indicated by the microbarographs was compared with the aneroid barometer at least once every six hours. The microbarographs were constructed for use at land stations and the records indicated the effects of pumping and roll of the ship by broadening of the recorded trace. Frequent comparison

¹ U.S. Weather Bureau Circular M, U.S. Govt. Printing Office, Washington 25, D.C., 1949.

with the Wallace and Tiernan aneroid barometer showed that reliable results could be obtained by reading the middle of the broadened trace.

The millibar was used as the unit of pressure measurement. The smallest pressure division was one-half millibar on the aneroid barometers and one millibar on the microbarographs, with the fractions of a millibar being estimated to the nearest tenth. The microbarograph records were made on charts of four-day duration with time divisions every 15 minutes. The time scale was set to correspond with the local standard time zone. The microbarograph charts were changed and the time reset each time a ship passed into a new time zone. The microbarograph traces were also corrected to agree with the readings obtained with the precision aneroid barometer.

On both ships the pressure instruments were located in the meteorology sections. Their height above the mean water line was four meters on the "Horizon" and three meters on the "Crest."

3. AIR AND SEA SURFACE TEMPERATURE AND AIR MOISTURE

On all cruises the surface air temperature and moisture content were determined by means of the standard Weather Bureau type sling psychrometer. The thermometers were graduated in degrees Fahrenheit and were read to one-tenth of a degree. To obtain the maximum possible accuracy, the measurements were made on the windward side of the ship as far as practicable from large surfaces which were heated by the sun. Whenever possible, areas of open shade were used to reduce radiation errors. The wet bulb wicking was changed frequently to prevent inaccuracies resulting from contamination. No attempt was made to use instruments for recording air temperature and moisture because of the difficulties involved in obtaining proper exposure of a thermoscreen

on shipboard.

Sea surface temperature measurements were made by bucket, with the bucket water temperature measured to the nearest one-tenth degree centigrade and converted to degrees and tenths Fahrenheit. Every care was exercised to obtain samples which were representative of the open sea. The samples were taken in such a way as to avoid collecting water discharged from the ship. The thermometer readings were made as rapidly as possible to avoid cooling by evaporation. Where necessary, several readings were made in order to obtain a reliable value for the sea surface temperature.

4. SURFACE WIND

The wind speed relative to the ship was measured with a magnetic type, three-cup anemometer mounted atop the mainmast. The anemometer heights above mean water line were $14\frac{1}{2}$ meters on the "Crest" and 17 meters on the "Horizon." The relative wind direction was estimated by observing the position of a vane mounted atop the mainmast. Whenever possible, the true wind direction was also determined by observing the direction from which small waves were coming. The true wind speed and direction were obtained vectorially from the relative wind and the ship's movement. The wind direction was recorded to the nearest ten degrees from which the wind was blowing and the speed to the nearest knot.

5. WAVES

The wave direction, period, and height were determined by visual observation of the sea surface. The direction from which the waves were coming was estimated and recorded to the nearest ten degrees. The wave period, the interval in seconds between the passage of two successive

wave crests, was timed by a stop watch. The wave height, the vertical distance of a crest above the trough, was estimated to the nearest one-half meter.

6. VISIBILITY, WEATHER, AND CLOUDS

The visibility, weather, and clouds have in common the fact that while they are important meteorological parameters, all are estimated visually and are, therefore, subjective observations. Thus, considerable variability enters into the observation of these elements as a result of the variability in the judgment, aptitude, and experience of the observers. The observers aboard the "Crest" and the "Horizon" made special efforts to have the record of clouds, visibility, and weather representative of actual conditions by checking and discussing among themselves.

The visibility was estimated in nautical miles. The present and past weather were observed and coded according to the U.S. Weather Bureau procedures.

The cloud forms were classified according to the U.S. Weather Bureau Circular S². The cloud amounts and heights were observed and encoded according to the procedures outlined in the "Manual of Marine Meteorological Observations"³. The observations aboard the "Crest" were limited to those outlined in the Weather Bureau manuals, as this procedure was adequate for the sky conditions encountered in the cruise areas. On the cruise of the "Horizon" an additional cloud log was maintained to describe more adequately the clouds encountered in tropical regions. Also, many photographs were taken to clarify the observations. Mr. James G. Edinger recorded the clouds and state of the sky

² Circular S., "Cloud Forms & Codes for States of the Sky," U.S. Weather Bureau, U.S. Govt. Printing Office, Washington 25, D.C., 1949

³ See footnote 1, page 6.

by means of sketches and word pictures. The cloud log, sketches and photographs will not be included in this report, but may be the subject of a later report.

7. WINDS ALOFT OBSERVATIONS

Because of the importance of upper wind data for research and forecasting in the cruise areas of the "Crest" and "Horizon," considerable effort was expended unsuccessfully to obtain ship radar suitable for tracking sounding balloons. Attempts at modifying the surface search radar with which the ships were equipped also were unsuccessful.

Standard U.S. Navy shipboard theodolites manufactured by Keuffel and Esser Co. were obtained for the 1950 cruises, which permitted the taking of pibals and rabals when sea and sky conditions permitted. No successful flights were obtained aboard the "Crest." The ship has a very narrow beam and at observation time it was usually "hove to" which resulted in a large roll and pitch, making it too difficult to keep the balloon in the field of view. Also, in the "Crest" cruise areas, the prevalence of low clouds prevented flights lasting more than a few minutes.

These same difficulties, in general, prevailed aboard the "Horizon." However, during the cruise fifteen soundings were taken. Nine of these soundings were "rabals", in which the radiosonde balloon was tracked by the theodolite to obtain azimuth and elevation angles, and the altitude was obtained from the pressure-height curve evaluated from the radiosonde data. The remaining six ascents were pibals using 100 gram balloons inflated with helium to a free lift of 625 grams. An assumed ascent rate of 318 meters per minute, average, was used in evaluating

these flights. No successful flights were obtained at night because of the added tracking difficulties.

The winds aloft data were evaluated according to the standard procedure outlined in "Ocean Station Instructions for Meteorological Personnel"⁴.

8. RADIOSONDE FLIGHTS

On all the cruises, the greatest emphasis was placed on upper-air soundings by radiosonde. The majority of the cruises were in areas previously unexplored, meteorologically speaking. Soundings were made twice daily at approximately 0300 and 1500 G.C.T. Some extra soundings were made on the "Horizon" in the vicinity of the Hawaiian Islands.

The radiosonde flights were carried out and evaluated according to the U.S. Weather Bureau procedures outlined in the "Manual of Radiosonde Observations"⁵ except that more levels were evaluated than required by this manual. Levels were selected to show all significant variations in humidity, bases and tops of all temperature inversions and isothermal layers, points of changes in lapse rate, and any other points required to make the computed sounding agree within 0.5 degrees centigrade with the recorder record. All soundings were checked at least two times.

On the 1949 cruises of the "Crest," Friez type AN/AMT-1 radiosonde transmitters operating on 72.2 megacycles were used. A ground plane antenna and a vertical dipole were mounted atop the foremast. Provision was made for switching a super-regenerative receiver manufactured by the National Company to the antenna which gave the optimum reception at any given time. The output of the receiver was fed into a General

⁴ U.S. Weather Bureau, Circular T, U.S. Govt. Printing Office, Washington, 25, D.C., 1950

⁵ U.S. Weather Bureau, Circular P, U.S. Govt. Printing Office, Washington 25, D.C., 1949

Radio Company audio frequency meter which in turn actuated a Friez Cycloray recorder producing a permanent record of the frequency of the audio signal received from the radiosonde transmitter. Preflight checking and calibration of the radiosonde instruments were accomplished in a baseline check box patterned after those used by the U.S. Weather Bureau. The box is completely enclosed and contains a circulating fan and a solution of sodium chloride which maintains a fairly constant humidity therein. Dry and wet bulb thermometers placed within the box are viewed through a window to determine the temperature and humidity.

The radiosonde balloons were inflated and the radiosonde trains launched on the afterdeck of the "Crest," an area approximately 17 by 22 feet. The height of the launching area was one and one-half meters above the mean water line. A large wind screen, consisting of a pipe framework covered with canvas, was mounted along part of the port side of the afterdeck. Rising about ten feet above the deck, the screen extended back from the superstructure about 15 feet, providing partial protection against the wind on the afterdeck. By heading the ship so that the wind came in a little off the port bow, good protection was secured when inflating and launching the radiosonde balloons.

A partitioned rack for storing 40 helium cylinders was constructed and placed on the afterdeck just to the rear of the superstructure. In this way, all the balloons could be filled directly from the rack, eliminating the necessity of moving the cylinders while the ship was at sea.

Three hundred and fifty gram neoprene balloons were used on most of the flights. They were usually inflated to give a total lift of 2100 grams which resulted in a free lift of 850 grams. Train regulator reels were used on most flights. This device is a drum to which is

fixed a spring loaded ratchet. The line joining the radiosonde instrument to the balloon is wrapped around the drum prior to release, thus providing a very short train which greatly aids in the ship-board launching. After the release, the weight of the radiosonde slowly unwinds the string from the drum, this action taking about a minute to complete.

During the 1950 cruises of the "Crest," Friez Type AN/AMT-7, 403 megacycle, pulse modulated radiosondes were used. One vertical dipole receiving antenna was used in conjunction with a National Company superheterodyne, frequency modulation receiver. This receiver had been designed specifically for radiosonde reception on 403 megacycles. However, considerable difficulty was encountered in obtaining satisfactory performance. Balloons weighing 500 grams were used for most flights in 1950. Usually the balloons were inflated to a total lift of 1850 grams resulting in a free lift of 600 grams. The remainder of the equipment and operation was the same as in 1949.

The radiosonde ground station installation on the "Horizon" was basically the same as that on the "Crest" in 1950. Friez AN/AMT-7, 403 megacycle radiosondes also were used with the same type of receiving and recording equipment. The half-wave, dipole receiving antenna was placed atop the forward mast of the "Horizon." The only deck space free of heavy equipment and obstructions and thus available for inflating balloons and launching radiosondes was the forward deck. To overcome the inherent difficulties resulting from the magnified effects of the roll and pitch of the ship in this area and the force of the wind, a cubical canvas inflation shelter, measuring ten feet on each edge, was installed on the starboard side of the ship just forward of

the superstructure. The port canvas side was rolled up when removing the radiosonde train for launching. Sixty helium cylinders were stored in racks located next to the inflation shelter. By heading the ship at launching time so the wind came in slightly starboard of dead aft, good protection was offered on the forward deck by the inflation shelter and the ship's superstructure. Even with these facilities, the launching of the radiosondes was usually difficult. Before the end of the cruise a rather impressive list had accumulated of ways to abort a radiosonde flight. The remainder of the radiosonde installation and operation was similar to that on the "Crest."

During the 1949 cruises, very good results were obtained with the 72.2 megacycle radiosondes. The only equipment difficulties encountered were with the Friez Cycloray recorder. The units were very old and difficult to keep in good operating condition. This type of recorder also is not the most satisfactory for use on small ships which were often hove-to in moderate seas to make oceanographic observations. The roll and pitch often caused excessive scattering of the recorder trace.

On the 1950 cruises, additional difficulties were encountered with the new 403 megacycle radiosondes, antenna, and receiver. Many instruments were rejected during pre-release checks. On the "Horizon" cruise alone 17 out of 79 instruments were rejected. Also, the transmitters caused an excessive drain on the dry cells, a factor which contributed to reduction of the maximum altitude attained on many flights. This difficulty has been overcome in later models of the AN/AMT-7 radiosondes. The 403 megacycle receiver and antenna had been put into production only a few months before the 1950 cruises. The first models were re-

ceived just prior to the departure on the 1950 cruises. No time was available for extensive checking of the receivers before the start of the cruises. It was soon found that they were not properly designed to receive the pulse modulated signal produced by the radiosondes. The single dipole antenna supplied with the receiver was not properly designed for shipboard use. Most of the silver plating was ruined in a few weeks by the action of salt. The salt deposits also radically lowered the efficiency of the antenna. After extensive modification of this equipment early in the summer, fairly satisfactory flights were obtained. However, it was often necessary to obtain the data by continuously reading the frequency meter visually, because the rapid fading of the signal made the recorder record too scattered to be legible. It is understood that modifications which have resulted in satisfactory performance have now been made on all the receivers in service.

III. OBSERVATIONS

1. GENERAL

On the following pages the observations taken aboard the "Crest" and the "Horizon" are presented. In so far as possible the material is presented in a fashion which is self-explanatory, but the surface observations are also presented in coded form to facilitate plotting. Preceding the observations of each type are notes to assist in the interpretation of the numerical tables. In addition to the radio-sonde observations themselves, a summary of constant pressure data, and a summary of data for the low level inversion abstracted therefrom are presented.

The maps on pages 17 to 20 show the positions of all observations of each type for each cruise.

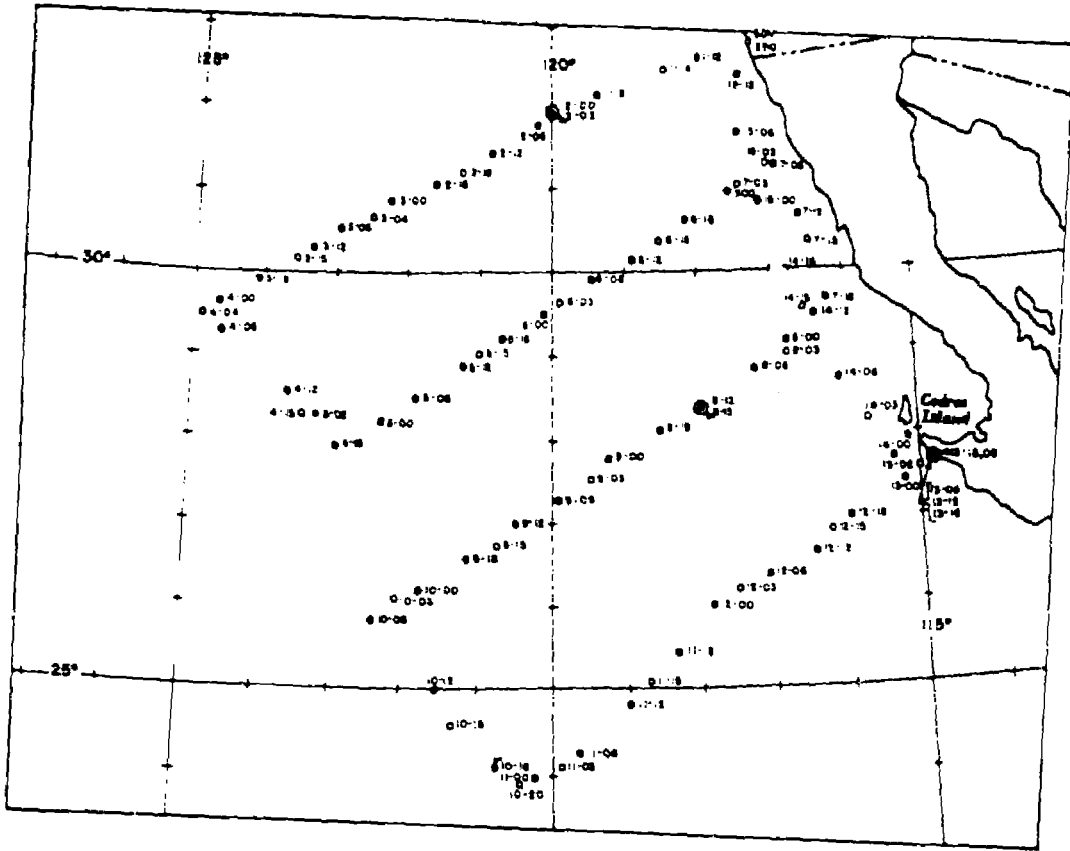


FIG. 1. LOCATION OF METEOROLOGICAL OBSERVATIONS MADE ON CRUISE OF "CREST", JULY, 1946. 500 MB MEAN SEA LEVEL PRESSURE TAKEN AT 0300 JULY 5, 1946.
 ● SURFACE OBSERVATION. ○ RADIOSONDE OBSERVATION.

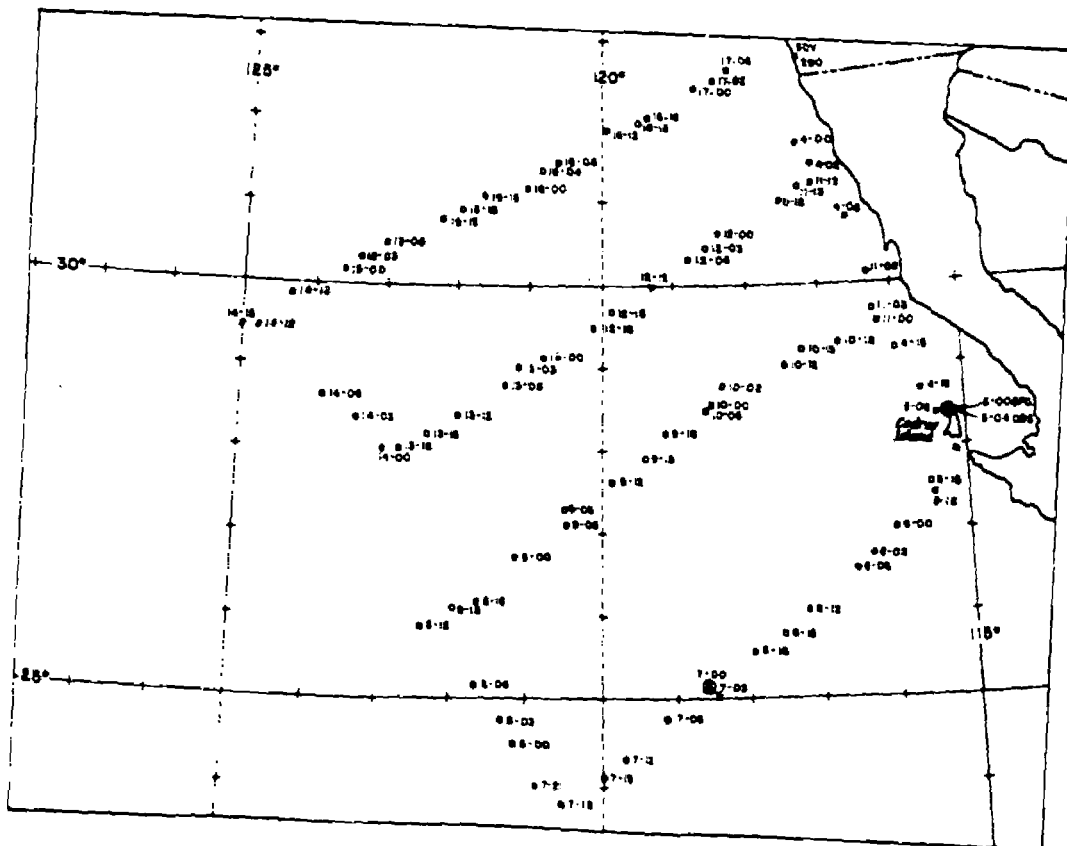


FIG. 2. LOCATION OF METEOROLOGICAL OBSERVATIONS MADE ON CRUISE OF "CREST", AUGUST, 1946. (SEE FIGURE 1 FOR MEANING OF SYMBOLS.)

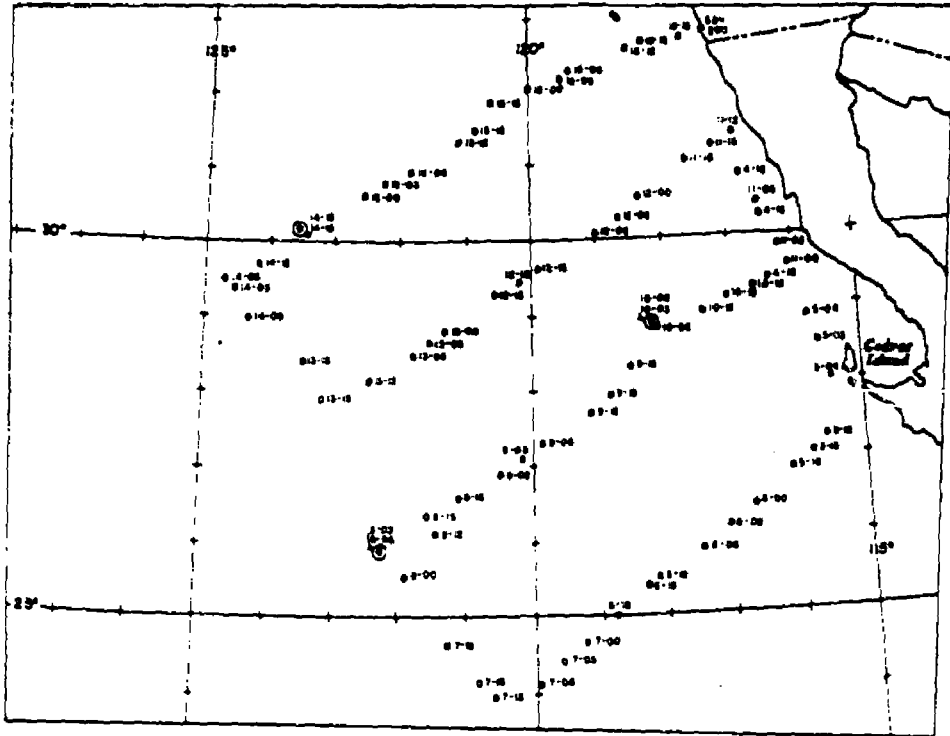


FIG. 3. LOCATION OF METEOROLOGICAL OBSERVATIONS MADE ON CRUISE OF "FOREST", SEPTEMBER, 1950. (SEE FIGURE 1 FOR MEANING OF SYMBOLS.)

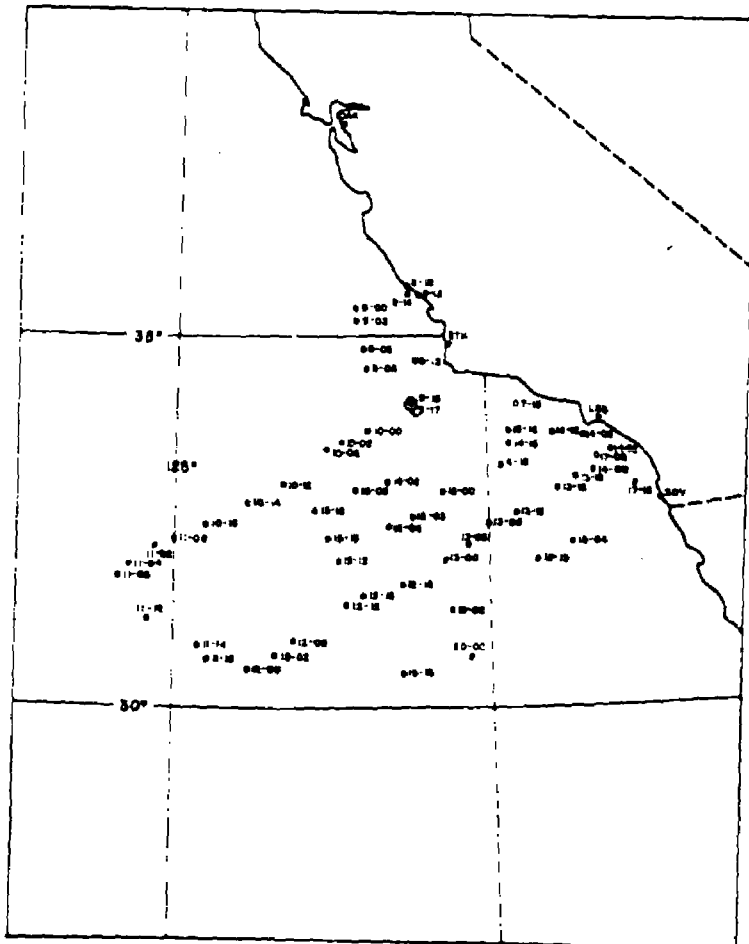


FIG. 4. LOCATION OF METEOROLOGICAL OBSERVATIONS MADE ON CRUISE OF "FOREST", JULY, 1950. (SEE FIGURE 1 FOR MEANING OF SYMBOLS.)

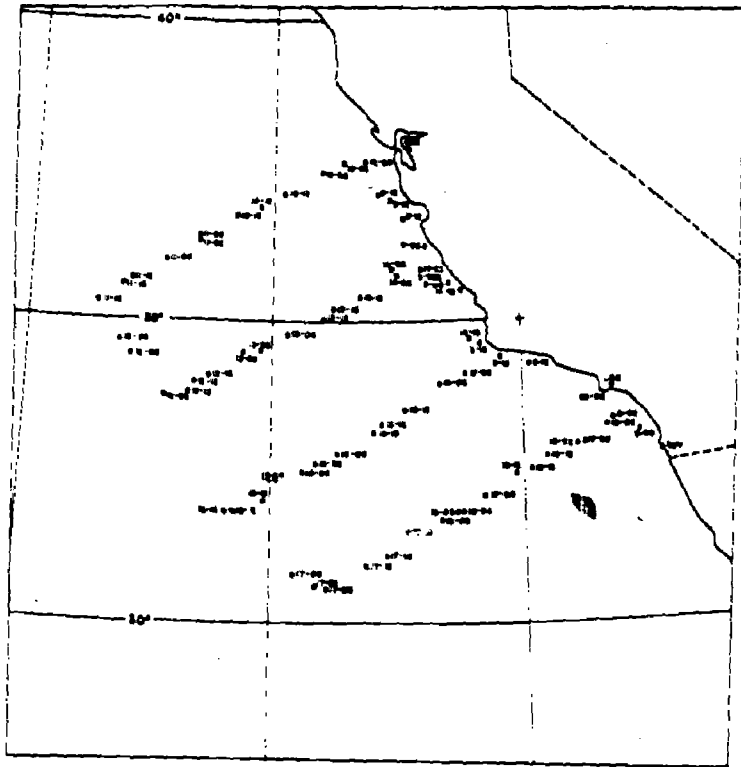


FIG. 5. LOCATION OF METEOROLOGICAL OBSERVATIONS MADE ON BRAINE OF FOREST, AUGUST, 1950. (SEE FIGURE 1 FOR MEANING OF SYMBOLS.)

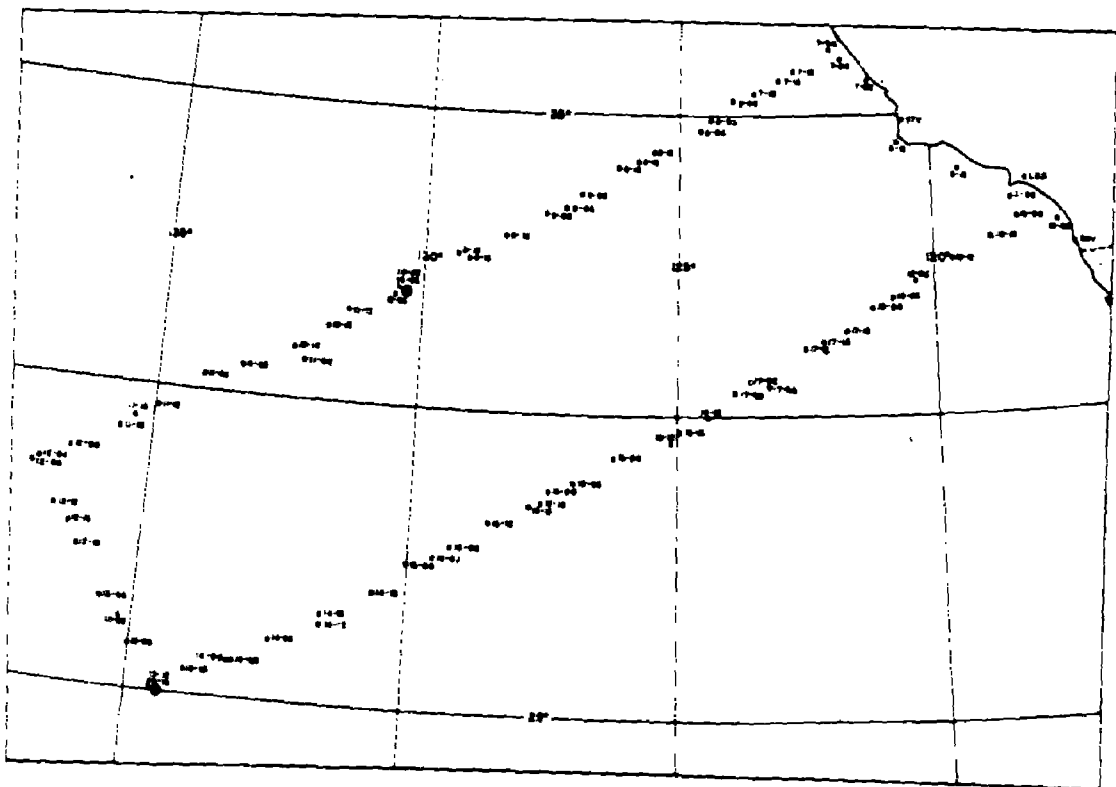


FIG. 6. LOCATION OF METEOROLOGICAL OBSERVATIONS MADE ON BRAINE OF FOREST, SEPTEMBER, 1950. (SEE FIGURE 1 FOR MEANING OF SYMBOLS.)

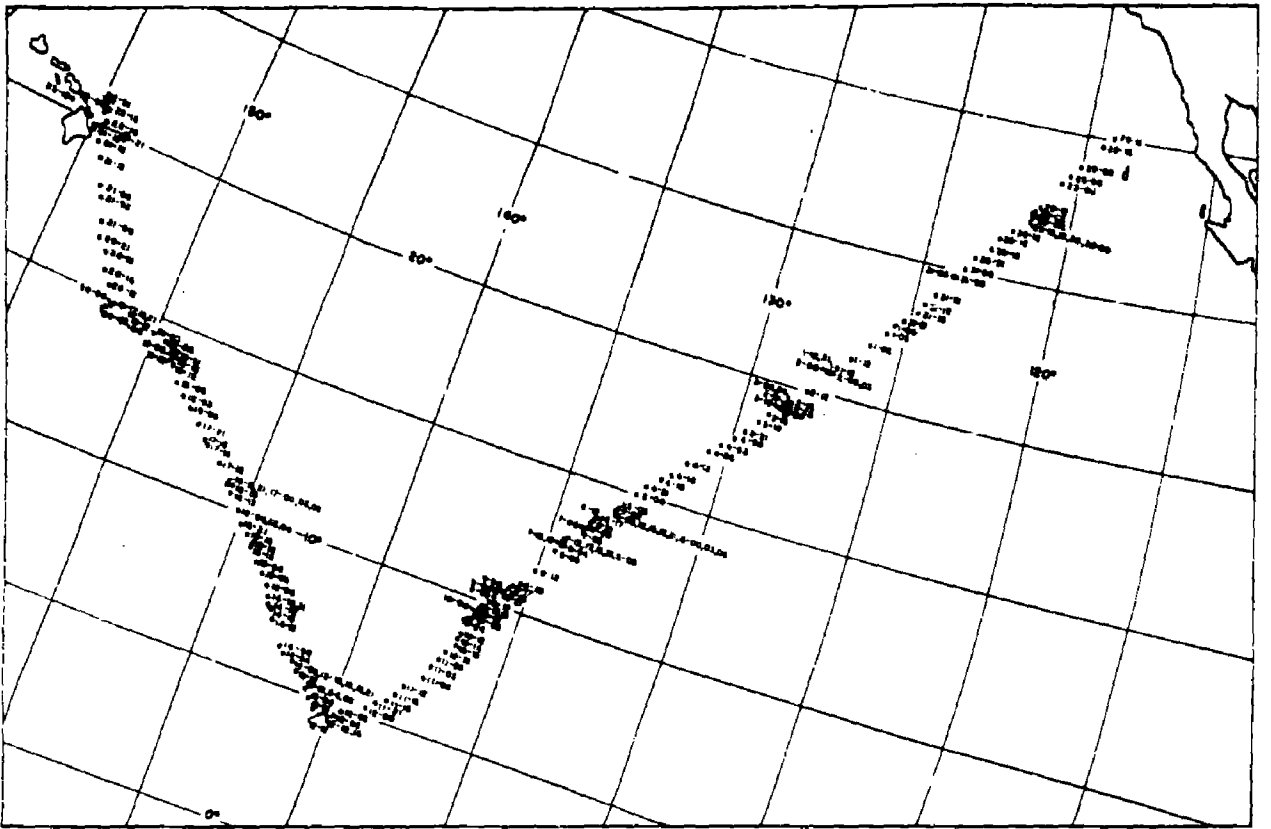


FIG. 7. LOCATION OF SURFACE METEOROLOGICAL OBSERVATIONS TAKEN ON ORLISE OF "HORIZON", JULY-AUGUST, 1950. (SEE FIGURE 1 FOR MEANING OF SYMBOLS.)

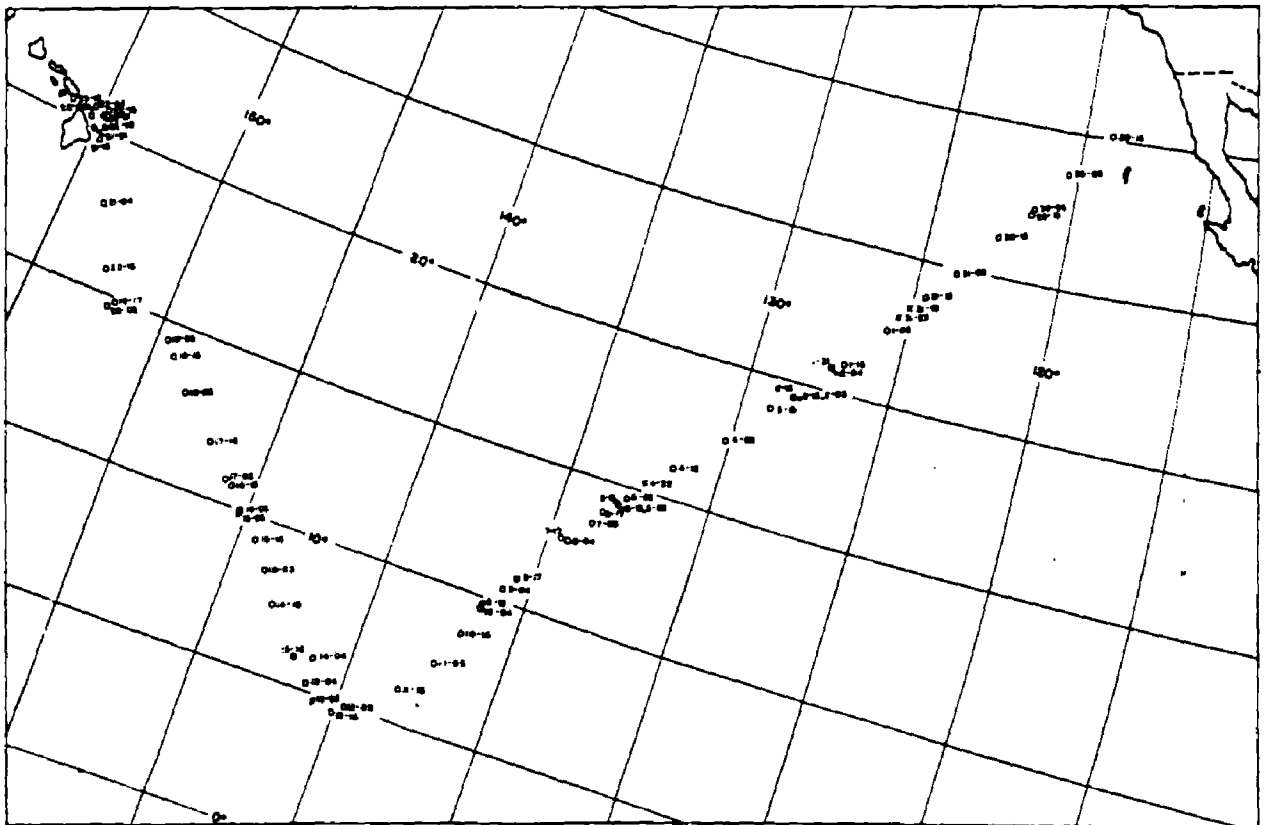


FIG. 8. LOCATION OF UPPER AIR OBSERVATIONS MADE ON ORLISE OF "HORIZON", JULY-AUGUST, 1950. (2 WINDS ALONG OBSERVATIONS. SEE FIGURE 1 FOR MEANING OF OTHER SYMBOLS.)

2. SURFACE OBSERVATIONS, PLAIN LANGUAGE FORM.

The tables present the surface observations arranged by ship and cruise. Meaning of entries is as follows:

- Time. Entered to nearest hour. The observations were normally made 30 minutes after the hour.
- Cloud amount. Entered in tenths of sky covered. 10 means overcast, 9- indicates breaks in overcast, 1- means few clouds, less than one-tenth.
- Present weather. The weather occurring at or just before the observation time according to the U.S. Weather Bureau "WW" code. For a more complete description refer to the code table in the "Manual of Marine Meteorological Observations".⁶ When precipitation or obstruction to visibility is not present, the code gives trends in cloud cover.
- Past weather. An indication of the general weather during the six hours (in 00, 06, 12, and 18 GCT observations) or the past three hours (in 03, 09, 15, and 21 GCT observations).
- Pressure. Sea level pressure in millibars.
- 3 Hr. Tend. A code figure representing the general trend of the barograph trace during the past three hours as indicated in the code table below.

⁶U.S. Weather Bureau, Circular M, U.S. Govt. Printing Office, Washington 25, D.C., 1949.

Characteristic of Changes of Barometer in the Last 3 Hours

<u>Code figures</u>	<u>Description</u>	
0	Rising, then falling	
1	Rising, then steady; or rising, then rising more slowly	Barometer now higher than
2	Unsteady	or the same
3	Steady or rising	as 3 hours ago
4	Falling or steady, then rising; or rising, then rising more quickly	
5	Falling, then rising	
6	Falling then steady; or falling, then falling more slowly	Barometer now lower than
7	Unsteady	3 hours ago
8	Falling	
9	Steady or rising, then falling; or falling, then falling more quickly	

3 Hr. Change The magnitude of the change in surface pressure during the last three hours in millibars, uncorrected for the ship's movement. The sign of the change is obtained from the preceding tendency figure.

Ave. Ship Course & Speed The ship's course and speed averaged over the past three hours and given on an eight point compass and in knots respectively.

Clouds, Low, Middle, and High The amount, in tenths of sky covered by the cloud type involved, the type of cloud, using the international cloud classification, and the estimated height of the cloud base in hundreds of feet. A slant mark indicates that the given level of cloud could not be observed because of some obscuring phenomenon, such as lower clouds, rain, or fog. A

zero indicates no cloud was present. The following table gives the international cloud classification in non-technical language for the benefit of those not familiar with it.

Clouds of Types Stratocumulus, Stratus,
Cumulus and Cumulonimbus

Code figure	Specifications
O	No Stratocumulus, Stratus, Cumulus, or Cumulonimbus clouds
L1	Cumulus with little vertical development and seemingly flattened
L2	Cumulus of considerable development generally towering, with or without other Cumulus or Stratocumulus; bases all at the same level
L3	Cumulonimbus with tops lacking clearcut outlines but distinctly not cirriform or anvil-shaped; with or without Cumulus, Stratocumulus, or Stratus
L4	Stratocumulus formed by the spreading out of Cumulus; Cumulus also often present
L5	Stratocumulus not formed by the spreading out of Cumulus
L6	Stratus or Fractostratus or both, but not Fractostratus of bad weather
L7	Fractostratus and/or Fractocumulus of bad weather ("scud") usually under Altostratus and Nimbostratus
L8	Cumulus and Stratocumulus other than those formed by the spreading out of Cumulus, with bases at different levels
L9	Cumulonimbus having a clearly fibrous (Cirriform) top, often anvil-shaped, with or without Cumulus, Stratocumulus, Stratus or "scud"

Clouds of Types Altocumulus,
Altostratus and Nimbostratus

O	No Altocumulus, Altostratus, or Nimbostratus clouds
M1	Thin Altostratus (semitransparent everywhere) through which the sun or moon would be seen dimly as through ground glass
M2	Thick Altostratus, or Nimbostratus (through portions of the sheet the position of the sun or moon may be indicated by a light patch)

- M3 Thin (semitransparent) Altocumulus; cloud elements not changing much; at a single level
- M4 Thin (semitransparent) Altocumulus in patches (often almond or fish-shaped); cloud elements continually changing and/or occurring at more than one level
- M5 Thin (semitransparent) Altocumulus in bands or in a layer gradually spreading over the sky and usually thickening as a whole; it may become partly opaque or double-layered
- M6 Altocumulus formed by the spreading out of Cumulus
- M7 Any of the following cases: (a) double-layered Altocumulus, usually opaque in parts, not increasing; (b) a thick (opaque) layer of Altocumulus, not increasing; (c) Altostratus and Altocumulus both present at the same or different levels
- M8 Altocumulus in the form of Cumulus-shaped tufts or Altocumulus with turrets
- M9 Altocumulus of a chaotic sky; generally at different levels; dense Cirrus in patches is usually also present

Clouds of Types Cirrus, Cirrostratus
and Cirrocumulus

- O No Cirrus, Cirrocumulus, or Cirrostratus clouds
- H1 Filaments or strands of Cirrus, scattered and not increasing (often "Mares' tails")
- H2 Dense Cirrus in patches or twisted sheaves usually not increasing; possibly but not certainly the remains of the upper part of Cumulonimbus
- H3 Cirrus, often anvil-shaped; either the remains of the upper portions of Cumulonimbus or part of a distant Cumulonimbus the rest of which is not visible
- H4 Cirrus (often hook-shaped) gradually spreading over the sky and usually thickening as a whole
- H5 Cirrus and Cirrostratus, often in bands converging toward the horizon; or Cirrostratus alone; in either case gradually spreading over the sky and usually thickening as a whole, but the continuous layer not reaching 45° altitude
- H6 Cirrus and Cirrostratus, often in bands converging toward the horizon; or Cirrostratus alone; in either case gradually spreading over the sky and usually thickening as a whole, and the continuous layer exceeding 45° altitude
- H7 Cirrostratus covering the whole sky
- H8 Cirrostratus not increasing and not covering the whole sky; Cirrus and Cirrocumulus may be present

H9 Cirrocumulus alone or Cirrocumulus with some Cirrus or Cirrostratus, but the Cirrocumulus being the main Cirriform cloud present. (Cirrocumulus may be present in H1 to H8)

Temperatures
Dry Bulb
Wet Bulb
Sea
Dew Point

All temperatures are given in Fahrenheit degrees

Wind

Surface wind direction is given as the direction from which the wind was blowing to the nearest ten degrees on a 360 degree compass and the speed is given to the nearest knot.

Waves

The wave direction is the direction from which the waves were moving, to the nearest ten degrees on a 360 degree compass. The wave period is given in seconds, and the height from trough to crest is stated in feet.

SHIP'S SURFACE OBSERVATIONS I

SHIP Crest

MONTH AND YEAR

July 1949

OBSERVERS Regelson, Bartlett

Date GCT	Time GCT	Lat. ON	Long. OW	Cloud Amt.	Vsby. miles	Present Weather	Past Weather	Pres. S.L.	3 Hr. Tend.	3 Hr. Chg.	Avg. course	Ship speed
1	12	32.7	118.1	---	---	---	---	1017.2	---	---	---	---
1	18	32.1	119.4	10	12	Sky Unchanged	Cloudy	1019.6	3	1.5	W	---
2	00	31.9	120.0	9	12	Sky Unchanged	Cloudy	1017.9	8	0.8	SW	ll
2	06	31.8	120.2	9	12	Sky Unchanged	Cloudy	1018.2	1	0.3	hove to	to
2	12	31.4	120.9	---	12	Sky Unchanged	Cloudy	1018.3	---	---	---	---
2	18	31.1	121.6	9	12	Sky Unchanged	Cloudy	1019.7	1	1.6	hove to	to
3	00	30.8	122.3	10	6	Sky Unchanged	Cloudy	1018.3	6	0.8	hove to	to
3	06	30.5	123.0	10	6	Sky Unchanged	Cloudy	1019.2	3	1.2	SW	ll
3	12	30.3	123.4	9	12	Sky Unchanged	Cloudy	1018.8	---	---	---	---
3	18	29.9	124.1	10	12	Sky Unchanged	Drizzle	1019.8	1	0.3	SW	ll
4	00	29.6	124.7	9	12	Sky Unchanged	Drizzle	1018.7	6	0.3	SW	ll
4	06	29.3	124.6	9	6	Sky Unchanged	Showers	1019.7	4	0.8	SE	ll
4	12	28.5	123.7	9	12	Sky Unchanged	Cloudy	1018.1	---	---	---	---
4	18	27.9	123.0	10	12	Drzl-Intmt-lgt	Showers	1018.6	1	0.5	hove to	to
5	00	28.2	122.4	10	12	Sky Unchanged	Drizzle	1017.3	8	1.7	hove to	to
5	06	28.5	121.9	10	6	Sky Unchanged	Cloudy	1017.8	1	0.3	hove to	to
5	12	28.9	121.3	10	6	Sky Unchanged	Showers	1016.8	---	---	---	---
5	18	29.2	120.7	10	12	Sky Unchanged	Cloudy	1017.3	1	0.8	hove to	to
6	00	29.5	120.1	10	12	Sky Unchanged	Cloudy	1015.8	8	1.4	hove to	to
6	06	29.9	119.5	10	12	Sky Unchanged	Cloudy	1016.3	3	1.5	hove to	to
6	12	30.2	118.9	10	12	Sky Unchanged	Cloudy	1015.4	---	---	---	---
6	18	30.6	118.2	10	12	Sky Unchanged	Cloudy	1016.7	0	0.7	hove to	to
7	00	30.9	117.6	8	30	Sky Unchanged	Cloudy	1014.7	6	1.5	NE	ll
7	06	31.3	116.9	8	12	Sky Unchanged	Cloudy	1014.9	6	0.3	hove to	to
7	12	30.6	116.6	9	12	Sky Unchanged	Cloudy	1014.4	---	---	---	---
7	18	29.6	116.3	8	12	Sky Unchanged	Cloudy	1015.8	3	0.8	S	ll

SHIP'S SURFACE OBSERVATIONS -- II

SHIP Crest

MONTH AND YEAR July 1949

OBSERVERS Regeison, Bartlett

Date GCT	Time GCT	Lat. °N.	Long. °W.	AMT	C L O U D S			TEMPERATURE °F			WIND		W A V E S			
					L O W TYPE	H T TYPE	H I G H TYPE	DRY BULB	WET BULB	SEA	DEW POINT	DIR	SPD	DIR	PER	H T
1	12	32.7	118.1	-	-	-	-	-	-	-	-	-	-	-	-	-
1	18	32.1	119.4	10	L5	25	/	59.0	52.0	-	46.0	290	09	-	-	-
2	00	31.9	120.0	9	L5	15	0	60.2	57.7	0	56.2	280	09	290	14	5
2	06	31.8	120.2	9	L5	15	0	59.4	57.0	0	55.6	310	03	-	-	-
2	12	31.4	120.9	-	-	-	-	-	-	-	-	310	02	-	-	-
2	18	31.1	121.6	9	L5	25	0	61.0	58.0	0	56.0	320	02	300	12	5
3	00	30.8	122.3	10	L5	15	/	61.8	58.2	/	55.6	270	03	280	18	3
3	06	30.5	123.0	10	L5	8	/	60.0	57.2	/	55.4	340	04	-	-	-
3	12	30.3	123.4	-	-	-	-	-	-	-	-	330	13	-	-	-
3	18	29.9	124.1	10	L5	15	/	62.9	59.0	/	56.1	320	04	270	10	5
4	00	29.6	124.7	9	L5	15	0	64.0	59.8	0	57.0	310	04	270	12	5
4	06	29.3	124.6	9	L7	15	0	63.2	58.5	0	55.3	10	13	-	-	-
4	12	28.5	123.7	-	-	-	-	-	-	-	-	20	18	-	-	-
4	18	27.9	123.0	10	L7	25	/	63.6	60.2	/	57.8	20	13	360	8	3
5	00	28.2	122.4	10	L5	25	/	64.7	59.8	/	56.9	360	13	360	12	3
5	06	28.5	121.9	10	L5	15	/	62.1	58.6	/	56.1	360	13	-	-	-
5	12	28.9	121.3	-	-	-	-	-	-	-	-	340	13	-	-	-
5	18	29.2	120.7	10	L5	25	/	63.8	60.1	/	57.4	20	18	340	10	5
6	00	29.5	120.1	10	L5	15	/	63.1	60.4	/	58.7	340	18	350	12	3
6	06	29.9	119.5	10	L5	15	/	60.6	57.2	/	54.8	360	16	-	-	-
6	12	30.2	118.9	-	-	-	-	-	-	-	-	340	18	-	-	-
6	18	30.6	118.2	10	L5	25	/	61.9	58.1	/	55.3	60	18	320	10	5
7	00	30.9	117.6	8	L4	15	0	63.1	58.8	0	55.5	30	13	330	16	3
7	06	31.3	116.9	8	L5	15	0	61.9	59.0	0	57.1	140	10	-	-	-
7	12	30.6	116.6	-	-	-	-	-	-	-	-	310	18	-	-	-
7	18	29.6	116.3	8	L5	15	0	64.7	60.1	0	57.5	340	05	330	6	1½

SHIP'S SURFACE OBSERVATIONS - I

SHIP Crest

MONTH AND YEAR July 1949

OBSERVERS Regelson, Bartlett

Date GCT	Time GCT	Lat. ON.	Long. OW.	Cloud Amt.	Vsby. miles	Present Weather	Past Weather	Pres. S.L.	3 Hr. Tend.	3 Hr. Chg.	Avg. course	Ship speed
8	00	29.2	116.8	5	30	Clds dissolving	partly cldy	1014.3	7	1.0	SW	11
8	06	28.8	117.2	8	12	Sky unchanged	Cloudy	1015.6	3	1.5	SW	11
8	12	28.4	118.0	10	12	Sky unchanged	Cloudy	1015.2	4	-	-	-
8	18	28.1	118.6	9	30	Sky unchanged	Cloudy	1017.2	3	0.8	hove to	to
9	00	27.7	119.3	8	12	Sky unchanged	Cloudy	1015.6	5	1.5	hove to	to
9	06	27.3	119.9	8	12	Sky unchanged	Cloudy	1016.7	2	1.7	hove to	to
9	12	27.0	120.5	10	12	Sky unchanged	Cloudy	1016.7	-	-	-	-
9	18	26.6	121.1	9	12	Sky unchanged	Cloudy	1018.0	3	1.2	hove to	to
10	00	26.2	121.8	10	12	Sky unchanged	Cloudy	1017.3	6	0.7	hove to	to
10	06	25.9	122.4	9	12	Sky unchanged	Cloudy	1018.1	3	1.0	hove to	to
10	12	25.0	121.6	10	12	Sky unchanged	Cloudy	1016.8	-	-	-	-
10	18	24.1	120.8	8	30	Sky unchanged	Cloudy	1017.6	1	0.5	SE	11
11	00	24.0	120.2	8	12	Sky unchanged	Cloudy	1016.1	6	1.7	NE	11
11	06	24.3	119.7	9	12	Sky unchanged	Cloudy	1016.2	3	0.5	NE	11
11	12	24.8	119.0	10	12	Sky unchanged	Cloudy	1015.0	-	-	-	-
11	18	25.4	118.3	6	30	Clds dissolving	Partly cldy	1015.8	1	0.2	NE	11
12	00	26.0	117.9	5	30	Sky unchanged	Partly cldy	1014.4	7	0.8	E	11
12	06	26.4	117.1	3	12	Sky unchanged	Partly cldy	1015.4	3	1.2	E	11
12	12	26.6	116.5	8	30	Clds forming	Partly cldy	1015.2	-	-	-	-
12	18	27.0	116.0	3	12	Clds dissolving	Clear	1016.4	2	1.0	NE	11
13	00	27.5	115.2	0	30	Sky unchanged	Clear	1013.7	8	1.7	NE	11
13	06	27.7	114.9	0	30	Sky unchanged	Clear	1014.8	1	0.2	hove to	to
13	12	27.7	114.9	5	30	Sky unchanged	Partly cldy	-	-	-	-	-
13	18	27.7	114.9	3	12	Sky unchanged	Clear	1014.7	1	0.2	hove to	to
14	00	27.6	115.4	5	12	Sky unchanged	Clear	1013.4	9	1.7	NW	11
14	06	28.7	116.1	3	12	Sky unchanged	Clear	1014.1	1	1.7	NE	11
14	12	29.6	116.5	8	6	Sky unchanged	Partly cldy	1015.8	-	-	-	-
14	18	30.0	116.8	8	12	Sky unchanged	Partly cldy	1014.0	2	1.0	NW	8

SHIP'S SURFACE OBSERVATIONS - II

SHIP Crest

MONTH AND YEAR July 1949

OBSERVERS Regelson, Bartlett

Date GCT	Time GCT	Lat. ON.	Long. OW.	AMT	C L O U D S			TEMPERATURE OF			WIND		W A V E S			
					L O W TYPE	M I D TYPE	H I G H TYPE	DRY BULB	WET BULB	SEA	DEW POINT	DIR	SPD	DIR	PER	HT
8	00	29.2	116.8	5	L4	15	0	65.0	61.5		59.0	300	03	330	8	5
8	06	28.8	117.2	8	L5	15	0	61.1	58.8		57.5	330	13	-	-	-
8	12	28.4	118.0	-	-	-	-	-	-		-	270	09	-	-	-
8	18	28.1	118.6	9	L5	15	0	63.8	59.9		57.0	20	09	300	10	5
9	00	27.7	119.3	8	L4	15	0	64.8	60.7		58.4	20	05	320	8	5
9	06	27.3	119.9	8	L5	15	0	63.2	60.0		57.8	360	13	-	-	-
9	12	27.0	120.5	-	-	-	-	-	-		-	Calm	-	-	-	-
9	18	26.6	121.1	8	L5	15	0	66.6	61.8		59.0	330	13	300	8	3
10	00	26.2	121.8	10	L5	15	/	66.8	61.9		59.0	10	09	320	10	6½
10	06	25.9	122.4	9	L5	15	0	65.2	60.4		57.6	30	09	-	-	-
10	12	25.0	121.6	-	-	-	-	-	-		-	360	09	-	-	-
10	18	24.1	120.8	9	L5	15	0	57.8	64.2		62.6	50	09	330	8	3
11	00	24.0	120.2	8	L5	15	0	68.2	63.8		61.4	320	09	320	8	5
11	06	24.3	119.7	9	L5	15	0	65.0	61.8		59.0	360	09	-	-	-
11	12	24.8	119.0	-	-	-	-	-	-		-	10	13	-	-	-
11	18	25.4	118.3	6	L4	15	0	67.8	62.9		60.0	360	13	360	8	5
12	00	26.0	117.9	4	L4	15	M3	68.1	63.2		60.3	340	13	360	6	5
12	06	26.4	117.1	2	L4	15	0	67.1	63.8		62.1	360	09	-	-	-
12	12	26.6	116.5	-	-	-	-	-	-		-	20	09	-	-	-
12	18	27.0	116.0	1-	L1	15	0	70.1	66.2		64.3	20	09	*	12	6½
13	00	27.5	115.2	0	0	u	0	66.9	64.8		63.4	350	13	-	-	-
13	06	27.7	114.9	0	0	u	0	68.8	65.2		63.7	360	09	-	-	-
13	12	27.7	114.9	-	-	-	-	-	-		-	Calm	-	-	-	-
13	18	27.7	114.9	0	0	u	0	75.0	67.1		63.2	350	13	-	-	-
14	00	27.6	115.4	2	L4	15	0	68.8	65.9		64.0	290	13	360	8	6½
14	06	28.7	116.1	0	0	u	0	65.0	64.0		63.0	340	13	-	-	-
14	12	29.6	116.5	-	-	-	-	-	-		-	320	13	-	-	-
14	18	30.0	116.8	5	L5	15	0	66.2	64.0		62.8	360	13	310	14	8

* Indeterminate

SHIP'S SURFACE OBSERVATIONS - I

SHIP Crest

MONTH AND YEAR July 1949

OBSERVERS Regelson, Bartlett

Date GCT	Time GCT	Lat. °N.	Long. °W.	Cloud Amt.	Vsby. miles	Present Weather	Past Weather	Pres. S.L.	3 Hr. Tend.	3 Hr. Chg.	Avg. course	Ship Speed
15	00	30.8	117.1	8	12	Sky unchanged	Partly cldy	1012.3	6	1.2	NW	8
15	06	31.6	117.4	5	12	Sky unchanged	Partly cldy	1013.3	1	1.0	N	8
15	12	32.4	117.3	10	12	Sky unchanged	Cloudy	-	-	-	-	-

SHIP'S SURFACE OBSERVATIONS - II

SHIP Crest

MONTH AND YEAR July 1949

OBSERVERS Regelson, Bartlott

Date GCT	Time GCT	Lat. °N.	Long. °W.	C L O U D S			TEMPERATURE OF			W I N D			W A V E S			
				LOW TYPE	HT	MID TYPE	HIGH TYPE	DRY BULB	WET BULB	SEA POINT	DEW POINT	DIR	SPD	DIR	PER	HT
15	00	30.8	117.1	8	15	0	0	-	-	-	-	310	18	-	-	-
15	06	31.6	117.4	5	15	0	0	63.0	60.6	59.2	-	320	13	-	-	-
15	12	32.4	117.3	-	-	-	-	-	-	-	-	Calm	-	-	-	-

SHIP'S SURFACE OBSERVATIONS - I

SHIP Crest

MONTH AND YEAR August 1949

OBSERVERS Regclson, Bartlett

Date GCT	Time GCT	Lat. ON	Long. OW	Cloud Amt.	Vsby. Miles	Present Weather	Past Weather	Pres. S.L.	3 Hr. Tend	3 Hr. Chg.	Avg. course	Ship speed
4	00	31.7	117.2	10	12	Sky unchanged	cloudy	1012.7	8	1.0	S	11
4	06	30.8	116.6*	10	12	Sky unchanged	cloudy	1013.7	4	1.0	S	11
4	18	28.7	115.6	10	12	Sky unchanged	cloudy	1014.7	3	1.5	SE	11
5	00	28.3	115.2	8	12	Sky unchanged	cloudy	1011.8	8	0.8	hove to	
5	06	28.3	115.3	10	12	sky unchanged	partly cldy	1014.5	4	1.5	SW	11
5	18	27.4	115.4	9	30	clds dissolving	cloudy	1015.0	0	1.0	SW	11
6	00	27.0	116.0	9	12	Sky unchanged	cloudy	1012.6	6	1.8	SW	11
6	06	26.6	116.6	9	12	Sky unchanged	cloudy	1015.2	3	1.5	SW	11
6	12	26.1	117.2	10	12	Sky unchanged	cloudy	1014.2	9	0.8	SW	11
6	18	25.5	118.0	10	12	Sky unchanged	cloudy	1016.4	1	0.9	SW	11
7	00	25.1	118.6	9	12	Sky unchanged	cloudy	1014.7	8	1.8	SW	11
7	06	24.8	119.1	10	12	Sky unchanged	cloudy	1016.8	3	2.5	SW	11
7	12	24.3	119.7	7	12	Clds dissolving	cloudy	1015.8	6	1.0	SW	11
7	18	23.8	120.5	6	30	clds dissolving	partly cldy	1017.1	2	0.5	hove to	
8	00	24.5	121.1	9	12	Clds forming	partly cldy	1016.3	6	1.0	NW	11
8	06	25.2	121.7	9	12	Sky unchanged	partly cldy	1017.1	4	0.5	NW	11
8	12	25.9	122.4	6	12	Sky unchanged	partly cldy	1017.0	2	0.5	hove to	
8	18	26.2	121.7	6	30	Sky unchanged	partly cldy	1018.4	3	1.0	hove to	
9	00	26.8	121.1	6	30	Sky unchanged	partly cldy	1016.0	8	1.4	hove to	
9	06	27.1	120.5	6	30	Sky unchanged	partly cldy	1016.1	4	0.0	hove to	
9	12	27.6	119.9	9	12	Clds forming	partly cldy	1015.3	4	0.0	hove to	
9	18	28.2	119.1	9	12	Sky unchanged	cloudy	1016.2	1	0.8	hove to	
10	00	28.5	118.5	2	30	Clds dissolving	partly cldy	1014.4	8	1.0	hove to	
10	06	28.4	118.6	1	30	Sky unchanged	partly cldy	1015.0	3	0.0	hove to	
10	12	29.0	117.5	8	12	Sky unchanged	Cloudy	1014.0	3	0.0	NE	11
10	18	29.2	116.8	8	12	Sky unchanged	cloudy	1015.8	1	1.5	NE	11
11	00	29.5	116.2	1	30	Sky unchanged	partly cldy	1014.5	9	1.5	hove to	
11	06	30.2	116.3	5	30	Sky unchanged	partly cldy	1015.9	1	1.0	hove to	12

*Approximate position

SHIP SURFACE OBSERVATIONS - II

SHIP Crest

MONTH AND YEAR August 1949

OBSERVERS Regelson, Bartlett

Date GCT	Time GCT	Lat. ON.	Long. OW.	AMT	C L O U D S			TEMPERATURE OF			W I N D		W A V E S		
					L O W TYPE	M I D TYPE	H I G H TYPE	DRY BULB	WET BULB	S F A	DEW POINT	DIR	SPD	DIR	P E R
4	00	31.7	117.2	10	L5	/	/	-	-	-	290	08	-	-	-
4	06	30.8*	116.6*	10	L5	/	/	-	-	-	290	08	-	-	-
4	18	28.7	115.6	10	L6	/	/	-	-	-	320	09	300	6	3
5	00	28.3	115.2	8	L6	M7	H8	67.6	65.0	68.6	100	02	-	-	-
5	06	28.3	115.3	10	L6	/	/	72.2	67.2	68.9	270	09	-	-	-
5	18	27.4	115.4	9	L5	M3	0	67.8	64.8	68.8	310	12	310	6	8
6	00	27.0	116.0	9	L5	M3	0	68.0	65.0	70.2	310	09	310	10	5
6	06	26.6	116.6	9	L5	M3	0	67.2	64.1	69.8	320	08	310	8	3
6	12	26.1	117.2	10	L5	/	/	67.0	64.0	70.0	330	05	-	-	-
6	18	25.6	118.0	10	L5	/	/	68.0	64.6	71.6	320	05	320	10	6 1/2
7	00	25.1	118.6	9	L5	0	0	70.4	66.8	73.4	360	08	350	8	8
7	06	24.8	119.1	10	L5	/	/	69.6	65.0	73.4	340	03	-	-	-
7	12	24.3	119.7	7	L5	0	0	69.0	65.0	75.2	360	08	-	-	-
7	18	23.8	120.5	6	L5	0	0	72.0	67.0	73.4	340	15	330	6	6 1/2
8	00	24.5	121.1	9	L5	0	0	71.0	66.5	72.0	360	09	-	-	-
8	06	25.2	121.7	9	L5	0	0	67.8	64.8	73.4	20	20	-	-	-
8	12	25.9	122.4	6	L5	0	0	67.2	64.2	70.5	20	13	360	8	8 1/2
8	18	26.2	121.7	6	L5	0	0	68.2	64.6	71.1	10	13	10	8	8
9	00	26.8	121.1	6	L5	0	0	68.0	65.3	71.6	10	13	360	8	8
9	06	27.1	120.5	6	L5	0	0	66.1	62.9	70.9	360	17	-	-	-
9	12	27.6	119.9	9	L5	0	0	65.4	61.3	69.8	360	09	360	8	8
9	18	28.2	119.1	9	L5	0	0	65.3	61.8	68.0	340	13	360	8	8
10	00	28.5	118.5	2	L5	0	0	67.0	61.7	70.7	340	20	-	-	-
10	06	28.4	118.6	1	L5	0	0	64.1	58.2	70.7	340	13	-	-	-
10	12	29.0	117.5	8	L5	0	0	65.0	60.0	68.6	360	12	-	-	-
10	18	29.2	116.8	8	L5	0	0	68.2	62.0	68.9	360	05	360	5	3
11	00	29.5	116.2	1	L5	0	0	68.0	63.0	67.3	320	13	320	5	3
11	06	30.2	116.3	5	L5	0	0	65.2	60.2	67.7	340	13	-	-	-

* Approximate position

SHIP'S SURFACE OBSERVATIONS - I

SHIP Crest

MONTH AND YEAR August 1949

OBSERVERS Regelson, Bartlett

Date GCT	Time GCT	Lat. °N.	Long. °W.	Cloud Amt.	Vsby. milos	Present Weather	Past Weather	Pres. S.L.	3 Hr. Tend.	3 Hr. Chg.	Avg. course	Ship speed
11	12	31.2	117.0	9	12	Sky unchanged	Cloudy	1016.7	3	0.6	NW	11
11	18	31.0	117.5	8	12	Sky unchanged	Cloudy	1019.7	3	2.8	hove to	hove to
12	00	30.6	118.4	9	12	Sky unchanged	Cloudy	1018.8	5	0.4	hove to	hove to
12	06	30.3	118.8	3	30	Sky unchanged	Partly cldy	1019.6	0	0.3	hove to	hove to
12	12	30.0	119.3	8	12	Sky unchanged	Cloudy	1019.3	3	0.0	hove to	hove to
12	18	29.5	120.1	9	12	Sky unchanged	Cloudy	1020.8	3	1.0	hove to	hove to
13	00	29.1	120.8	8	12	Sky unchanged	Cloudy	1018.7	8	2.0	hove to	hove to
13	06	28.8	121.3	10	12	Sky unchanged	Cloudy	1019.4	4	0.5	hove to	hove to
13	12	28.4	122.0	9	12	Sky unchanged	Cloudy	1018.5	8	0.5	SW	11
13	18	28.0	122.8	10	12	Sky unchanged	Cloudy	1020.2	3	0.2	SW	11
14	00	28.0	123.0	10	12	Sky unchanged	Cloudy	1018.6	9	2.0	NW	11
14	06	28.7	123.9	8	12	Sky unchanged	Cloudy	1020.2	3	1.5	NW	11
14	12	29.5	124.8	10	12	Sky unchanged	Cloudy	1020.0	3	0.0	NW	11
14	18	29.8	124.3	10	12	Sky unchanged	Cloudy	1021.0	3	0.3	NE	11
15	00	30.2	123.6	2	30	Clds dissolving	Partly cldy	1020.5	8	0.5	hove to	hove to
15	06	30.5	123.0	8	12	Clds forming	Partly cldy	1020.5	1	0.5	NE	11
15	12	30.8	122.2	10	12	Sky unchanged	Cloudy	1019.5	3	0.0	hove to	hove to
15	18	31.1	121.7	10	12	Sky unchanged	Cloudy	1020.6	3	1.2	NE	11
16	00	31.2	121.0	2	30	Clds dissolving	Partly cldy	1018.6	8	3.0	NE	11
16	06	31.5	120.6	1	30	Clds dissolving	Partly cldy	1018.4	6	0.5	NE	11
16	12	31.9	119.9	10	12	Sky unchanged	Cloudy	-	-	-	NE	11
16	18	32.0	119.4	9	30	Sky unchanged	Cloudy	1018.8	3	0.0	NE	11
17	00	32.4	118.7	1	30	Sky unchanged	Cloudy	1016.0	9	1.5	NE	11
17	06	32.6	118.2	2	12	Sky unchanged	Partly cldy	1015.7	3	0.0	hove to	hove to

SHIP'S SURFACE OBSERVATIONS - II

MONTH AND YEAR August 1949

SHIP Crest

OBSERVERS Regelson, Bartlett

Date CCT	Time GCT	Lat. ON.	Long. OW.	AMT	C L O U D S			HIGH TYPE	DRY BULB	TEMPERATURE OF			DEW POINT	WIND			W A V E S			
					L O W TYPE	M I D TYPE	H T TYPE			WET BULB	SEA	DIR		SPD	DIR	PER	HT			
11	12	31.2	117.0	9	L5	0	0	0	64.5	59.5	66.2	56.5	320	18	-	-	-	-	-	
11	18	31.0	117.5	8	L5	0	0	0	64.5	60.0	66.2	57.5	320	18	320	6	6 $\frac{1}{2}$	6	6 $\frac{1}{2}$	
12	00	30.6	118.4	9	L5	0	0	0	64.5	61.3	67.1	59.1	310	13	310	6	6 $\frac{1}{2}$	6	6 $\frac{1}{2}$	
12	06	30.3	118.8	3	L5	0	0	0	63.6	60.0	66.0	57.4	310	17	-	-	-	-	-	
12	12	30.0	119.3	8	L5	0	0	0	64.1	59.8	66.0	57.1	330	18	310	12	6 $\frac{1}{2}$	12	6 $\frac{1}{2}$	
12	18	29.5	120.1	9	L5	0	0	0	66.0	60.0	67.5	56.0	330	18	310	6	6 $\frac{1}{2}$	6	6 $\frac{1}{2}$	
13	00	29.1	120.8	8	L5	0	0	0	66.5	61.0	68.4	57.5	330	21	310	8	6 $\frac{1}{2}$	8	6 $\frac{1}{2}$	
13	06	28.8	121.3	10	L5	/	/	/	66.8	62.5	68.2	60.2	350	20	-	-	-	-	-	-
13	12	28.4	122.0	9	L5	0	0	0	66.0	62.0	68.9	60.0	330	18	360	10	5	10	5	
13	18	28.0	122.8	10	L8	/	/	/	67.1	62.3	68.7	59.5	360	20	-	-	-	-	-	-
14	00	28.0	123.0	10	L8	/	/	/	67.0	63.0	68.9	61.0	360	18	360	10	5	10	5	
14	06	28.7	123.9	8	L8	0	0	0	65.9	60.6	68.9	57.3	360	20	-	-	-	-	-	-
14	12	29.5	124.8	10	L8	/	/	/	65.0	60.2	68.0	57.4	360	20	-	-	-	-	-	-
14	18	29.8	124.3	10	L8	/	/	/	66.2	61.0	67.6	57.8	360	18	-	-	-	-	-	-
15	00	30.2	123.6	2	L8	0	0	0	66.0	61.0	66.2	58.0	360	13	-	-	-	-	-	-
15	06	30.5	123.0	8	L8	0	0	0	64.4	59.9	66.0	57.4	360	18	-	-	-	-	-	-
15	12	30.8	122.2	10	L8	/	/	/	63.0	60.9	65.3	59.8	340	18	340	6	5	6	5	
15	18	31.1	121.7	10	L5	/	/	/	63.0	58.2	64.8	55.0	360	13	-	-	-	-	-	-
16	00	31.2	121.0	2	L2	0	0	0	66.4	62.0	64.8	59.6	360	13	360	8	5	8	5	
16	06	31.5	120.6	1	L5	0	0	0	62.0	59.7	63.1	58.4	340	18	-	-	-	-	-	-
16	12	31.9	119.9	10	L5	/	/	/	61.0	-	63.1	-	320	18	-	-	-	-	-	-
16	18	32.0	119.4	9	L5	0	0	0	62.8	58.6	63.7	55.4	340	18	320	6	9 $\frac{1}{2}$	6	9 $\frac{1}{2}$	
17	00	32.4	118.7	1	L5	0	0	0	62.9	59.8	64.4	57.7	340	22	-	-	-	-	-	-
17	06	32.6	118.2	2	L5	0	0	0	61.4	59.6	65.3	58.8	320	20	320	6	6 $\frac{1}{2}$	6	6 $\frac{1}{2}$	

SHIP'S SURFACE OBSERVATIONS I

SHIP Crest

MONTH AND YEAR

September 1919

OBSERVERS

E. Regelson, James Bartlett

Date GCT	Time GCT	Lat. ON	Long. CW	Cloud Amt.	Vsby. Miles	Present Weather	Past Weather	Pres. S.L.	3 Hr. Tend	3 Hr. Chg.	Avg. course	Ship speed
4	12	30.8	116.8	10	12	Sky unchanged	cloudy	1008.4	8	0.5	S	11
4	18	29.4	116.4	10	12	Sky unchanged	cloudy	1010.6	1	1.0	S	11
5	00	28.9	115.9	3	12	Clds dissolving	cloudy	1007.8	1	1.5	S	11
5	06	28.0	115.5	8	12	Sky unchanged	cloudy	1008.7	3	0.5	S	11
5	12	27.3	115.6	3	30	Clds dissolving	partly cldy	1008.0	9	0.5	SW	11
5	18	26.9	116.1	7	30	Sky unchanged	cloudy	1009.5	3	1.0	SW	11
6	00	26.4	116.8	8	30	Sky unchanged	cloudy	1008.1	8	0.5	SW	11
6	06	25.9	117.5	8	30	Sky unchanged	cloudy	1008.7	1	0.5	SW	11
6	12	25.5	118.1	5	30	Sky unchanged	partly cldy	1007.8	6	1.0	SW	11
6	18	25.0	118.8	9	30	Sky unchanged	cloudy	1009.8	1	C.5	have to	to
7	00	24.7	119.3	9	30	Sky unchanged	cloudy	1007.9	7	1.0	have to	to
7	06	24.2	119.9	9	30	Sky unchanged	cloudy	1009.6	3	1.5	have to	to
7	12	24.0	120.6	9	30	Sky unchanged	cloudy	1009.4	3	0.0	NW	11
7	18	24.7	121.3	7	30	Sky unchanged	cloudy	1011.8	3	1.5	NW	11
8	00	25.5	121.9	6	30	Sky unchanged	cloudy	1010.7	7	0.5	NW	11
8	06	25.9	122.3	6	30	Sky unchanged	cloudy	1012.8	0	1.5	have to	to
8	12	26.1	121.4	3	30	Sky unchanged	partly cldy	1011.4	6	1.0	have to	to
8	18	26.6	121.1	9	30	Sky unchanged	cloudy	1012.8	1	0.8	have to	to
9	00	26.9	120.5	10	12	Sky unchanged	cloudy	1010.4	6	1.0	have to	to
9	06	27.3	119.9	10	2	Drzl-continuous-lgt	drizzle	1011.5	3	1.5	have to	to
9	12	27.6	119.1	10	12	Sky unchanged	cloudy	1011.0	3	0.0	have to	to
9	18	28.1	118.6	10	6/10	Fog-sky not vsbl-be-coming thicker past hr.	drizzle	1013.4	4	1.0	have to	to
10	00	28.9	118.2	8	12	Sky unchanged	cloudy	1011.3	6	1.5	have to	to
10	06	28.8	118.1	1	12	Clds dissolving	cloudy	1012.6	3	0.5	have to	to
10	12	29.0	117.4	3	30	Sky unchanged	partly cldy	1012.0	6	0.3	NE	11
10	18	29.3	116.7	5	30	Sky unchanged	partly cldy	1012.5	3	0.0	have to	to

SHIP'S SURFACE OBSERVATIONS - II
 MONTH AND YEAR September 1949

SHIP Crest

OBSERVERS E. Regelson, James Bartlett

Date GCT	Time GCT	Lat. ON.	Long. OW.	AMT	LOW TYPE	CLOUDS HT	MID TYPE	HIGH TYPE	TEMPERATURE OF			WIND DIR	SPD	WAVES	
									DRY BULB	WET BULB	SEA POINT			DIR	PER
4	12	30.8	116.8	10	L5	15	/	/	64.8	61.8	67.5	320	08		
4	18	29.4	116.4	10	L6	15	/	/	68.8	64.2	68.6	320	10		
5	00	28.9	115.9	3	L5	20	0	0	70.0	66.0	70.9	320	12		
5	06	28.0	115.5	8	L5	15	0	0	68.1	65.1	68.5	320	11		
5	12	27.3	115.6	3	L5	15	0	0	68.0	65.1	71.2	320	14		
5	18	26.9	116.1	7	L5	15	0	0	69.7	66.8	72.0	340	20		
6	00	26.4	116.8	8	L5	18	0	0	70.0	66.6	71.2	340	20		
6	06	25.9	117.5	8	L5	18	0	0	70.0	67.5	72.7	350	20		
6	12	25.5	118.1	5	L5	18	0	0	68.2	65.7	74.7	330	21		
6	18	25.0	118.8	9	L5	20	0	0	70.8	67.3	72.5	360	23		
7	00	24.7	119.3	9	L5	20	0	0	73.0	68.1	75.6	360	19		
7	06	24.2	119.9	9	L5	20	0	0	72.2	67.9	73.2	20	16		
7	12	24.0	120.6	9	L5	22	0	0	71.4	67.2	73.4	20	16		
7	18	24.7	121.3	7	L5	18	0	0	71.8	68.3	73.2	30	21		
8	00	25.5	121.9	6	L5	18	0	0	70.9	67.5	72.0	350	22		
8	06	25.9	122.3	6	L5	11	0	0	68.0	66.1	71.2	350	18		
8	12	26.1	121.4	3	L5	12	0	0	68.2	66.2	71.4	340	22		
8	18	26.6	121.1	4	L5	11	M3*	0	71.2	68.7	71.3	360	24		6 6 1/2
9	00	26.9	120.5	1	L5	11	M2	/	69.8	68.2	70.7	360	22		6 6 8
9	06	27.3	119.9	10	0	14	M2**	/	70.0	69.8	70.2	360	22		6 11
9	12	27.6	119.1	10	0	20	M2**	/	69.9	69.6	70.1	40	09		6 5
9	18	28.1	118.6	10	0	5	M2**	/	70.0	69.7	70.3	40	10		6 5
10	00	28.9	118.2	8	L5	25	0	0	73.0	69.9	71.4	20	06		-
10	06	28.8	118.1	1	L5	14	0	0	71.0	68.2	71.6	20	13		-
10	12	29.0	117.4	3	L5	15	0	0	68.6	66.8	71.6	360	14		6 5
10	18	29.3	116.7	5	L5	12	0	0	72.0	68.9	72.1	350	12		6 5

* . Height of AC E3000 Ft

** Height Amount refere to Middle Clouds

SHIP'S SURFACE OBSERVATIONS - I

SHIP

MONTH AND YEAR September 1949

OBSERVERS E. Regelson, James Bartlett

Date GCT	Time GCT	Lat. ON	Long. W	Cloud Amt.	Vsby. Miles	Present Weather	Past Weather	Pres. S.L.	3 Hr. Tend	3 Hr. Chg.	Avg. Ship course speed
11	00	29.6	116.1	7	30	Clds forming	Partly cldy	1009.8	8	2.0	hove to
11	06	30.4	116.5	5	30	Sky unchanged	cloudy	1011.0	0	1.0	SW 11
11	12	31.3	116.9	8	30	Sky unchanged	cloudy	1011.2	4	0.5	hove to
11	18	31.0	117.6	10	30	Sky unchanged	cloudy	1013.8	3	1.5	hove to
12	00	30.5	118.3	7	30	Sky unchanged	cloudy	1013.3	7	0.5	SW 11
12	06	30.1	119.0	7	30	Clds forming	cloudy	1014.6	4	1.0	SE 11
12	12	29.6	119.9	9	30	Sky unchanged	cloudy	1015.8	3	0.5	SW 11
12	18	29.3	120.6	1	30	Clds dissolving	cloudy	1018.0	3	1.5	SW 11
13	00	28.8	121.3	4	30	Sky unchanged	partly cldy	1017.7	8	0.5	hove to
13	06	28.5	121.8	2	30	Clds dissolving	partly cldy	1018.7	3	0.5	hove to
13	12	28.1	122.5	1	30	Sky unchanged	partly cldy	1018.1	3	0.0	SW 11
13	18	28.4	123.5	1	30	Clds dissolving	showers	1019.5	4	1.0	WF 11
14	00	29.0	124.3	9	30	Sky unchanged	cloudy	1017.8	9	1.0	WF 11
14	06	29.6	124.8	9	30	Sky unchanged	cloudy	1019.5	3	1.5	hove to
14	12	29.7	124.2	10	30	Sky unchanged	cloudy	1018.6	6	0.5	E 11
14	18	30.2	123.7	9	30	Sky unchanged	cloudy	1019.1	3	0.5	E 11
15	00	30.6	122.6	7	30	clds forming	cloudy	1016.3	8	2.0	E 11
15	06	30.9	121.9	3	30	clds dissolving	cloudy	1016.9	3	0.5	E 11
15	12	31.3	121.1	7	12	Drzl-durg past hr	drizzle	1015.9	9	1.0	E 11
15	18	31.8	120.7	10	1	Drzl-intmt-igt.*	drizzle	1017.0	1	0.5	E 11
16	00	32.0	120.0	8	6	Light fog	drizzle	1014.6	8	1.5	E 11
16	06	32.2	119.3	10	6	Light fog	fog	1014.8	1	1.5	E 11
16	12	32.5	118.5	10	2	Light fog	drizzle	1014.0	6	1.0	E 11
16	18	32.7	117.6	10	12	Sky unchanged	drizzle	1014.8	1	0.5	E 11

* Fog patches

SHIP'S SURFACE OBSERVATION - II

SHIP Crest MONTH AND YEAR September 1919

OBSERVERS E. Regelson, James Bartlett

Date GCT	Time GCT	Lat. ON.	Long. OW.	AMT	C L O U D S			TEMPERATURE OF			WIND		W A V E S			
					L O W TYPE	M I D TYPE	H I G H TYPE	DRY BULB	WET BULB	SEA	DEW POINT	DIR	SPD	DIP	PER. HT	
11	00	29.6	116.1	7	L5	0	0	70.9	68.2	72.1	66.9	340	20	340	6	5
11	06	30.4	116.5	5	L5	0	0	67.8	65.0	71.0	63.2	340	20	-	-	-
11	12	31.3	116.9	8	L5	0	0	65.0	62.5	68.0	61.0	290	16	-	-	-
11	18	31.0	117.6	10	L5	/	/	65.6	62.1	67.8	59.6	320	16	320	6	6 $\frac{1}{2}$
12	00	30.5	118.3	7	L5	0	0	65.6	62.1	68.9	59.6	320	17	320	5	8
12	06	30.1	119.0	7	L5	0	0	64.7	61.0	68.9	58.6	320	16	320	6	8
12	12	29.6	119.9	9	L5	0	0	64.8	61.0	67.5	58.7	340	15	-	-	-
12	18	29.3	120.6	1	L5	0	0	67.0	63.0	68.1	61.0	320	19	320	5	8
13	00	28.8	121.3	4	L1	0	0	67.1	63.6	68.4	62.1	340	13	330	6	6 $\frac{1}{2}$
13	06	28.5	121.8	2	L5	0	0	66.1	62.9	69.1	60.9	340	13	340	6	6 $\frac{1}{2}$
13	12	28.1	122.5	1	L5	0	0	65.7	61.8	68.7	59.7	360	14	360	6	5
13	18	28.4	123.5	1	L1	0	0	68.7	64.2	69.0	61.7	340	15	340	6	5
14	00	29.0	124.3	9	L2	0	0	67.4	63.1	68.9	60.8	360	14	360	6	5
14	06	29.6	124.8	9	L5	0	0	67.0	61.0	68.5	57.0	360	12	360	5	5
14	12	29.7	124.2	10	L5	/	/	65.4	59.4	67.8	54.4	340	12	340	6	6 $\frac{1}{2}$
14	18	30.2	123.7	9	L5	0	0	67.5	62.1	67.5	58.7	360	16	360	6	6 $\frac{1}{2}$
15	00	30.6	122.6	7	L5	0	0	67.1	63.0	66.6	60.9	340	17	340	6	6 $\frac{1}{2}$
15	06	30.9	121.9	3	L5	0	0	64.0	61.2	66.0	59.4	340	17	340	6	6 $\frac{1}{2}$
15	12	31.3	121.1	7	L5	0	0	63.2	62.2	66.2	61.2	340	18	340	6	6 $\frac{1}{2}$
15	18	31.8	120.7	10	L5	/	/	64.1	64.0	64.8	63.9	340	18	340	6	8
16	00	32.0	120.0	8	L5	0	0	64.0	63.8	64.9	63.6	320	17	320	6	8
16	06	32.2	119.3	10	L5	/	/	61.5	60.1	66.2	59.5	320	14	320	6	6 $\frac{1}{2}$
16	12	32.5	118.5	10	L5	/	/	61.5	61.0	65.3	60.5	340	10	340	6	3
16	18	32.7	117.6	10	L5	/	/	66.0	63.5	67.4	62.0	250	06	-	-	-

SHIP'S SURFACE OBSERVATIONS - I

SHIP Crest

MONTH AND YEAR July 1950

OBSERVERS Davis Bergen, G. Walder

Date GCT	Time GCT	Lat. ON.	Long. Ctr.	Cloud Amt.	Vsby. miles	Present Weather	Past Weather	Pres. S.L.	3 Hr. Tend.	3 Hr. Cbg.	Avg. course	Ship Speed
8	12	35.7	121.1	3	12	Sky unchanged	Partly cldy	1013.2	3	0.2	hove to	
8	18	35.7	121.3	9	6	Clds forming	Cloudy	1013.2	1	0.2	hove to	
9	00	35.3	122.1	9	12	Sky unchanged	Cloudy	1013.9	3	0.0	hove to	
9	06	34.6	121.9	9	12	Sky unchanged	Cloudy	1014.9	3	0.2	NE 11	
9	12	34.7	121.1	8	12	Sky unchanged	Partly cldy	1014.9	3	0.2	SE 11	
9	18	34.1	121.2	9	12	Clds forming	Cloudy	1016.6	3	0.0	hove to	
10	00	33.8	121.9	5	12	Sky unchanged	Partly cldy	1016.6	6	1.0	SW 11	
10	06	33.5	122.6	9	12	Sky unchanged	Partly cldy	1018.0	3	1.0	SW 11	
10	12	33.1	123.3	10	6	Sky unchanged	Cloudy	1018.6	3	0.0	SW 11	
10	18	32.5	124.5	10	6	Sky unchanged	Cloudy	1021.3	3	0.0	SW 11	
11	00	32.3	125.0	9	12	Sky unchanged	Cloudy	1021.7	3	0.0	hove to	
11	06	31.8	125.9	9	12	Sky unchanged	Cloudy	1022.4	1	0.2	hove to	
11	12	31.3	125.4	10	6	Sky unchanged	Cloudy	1021.7	6	1.0	SE 11	
11	18	30.6	124.5	10	6	Sky unchanged	Cloudy	1022.4	1	0.2	SE 11	
12	00	30.5	123.8	10	12	Sky unchanged	Cloudy	1021.7	3	0.0	NE 11	
12	06	30.9	123.1	0	12	Clds dissolving	Clear	1019.6	6	0.0	NE 11	
12	12	31.4	122.3	0	12	Clds dissolving	Clear	1021.7	6	0.6	NE 11	
12	18	31.7	121.4	9	12	Clds forming	Cloudy	1018.0	6	0.6	NE 11	
13	00	32.0	120.7	8	12	Sky unchanged	Cloudy	1015.2	6	2.2	NE 11	
13	06	32.4	120.0	5	12	Clds dissolving	Partly cldy	1014.6	6	1.0	hove to	
13	12	32.6	119.5	10	6	Sky unchanged	Cloudy	1014.2	2	0.2	hove to	
13	18	32.9	118.9	10	6	Sky unchanged	Cloudy	1013.5	6	0.2	NE 11	
14	00	33.2	118.3	8	6	Sky unchanged	Partly cldy	1012.2	6	0.6	NE 11	
14	06	33.7	118.4	9	6	Sky unchanged	Partly cldy	1012.5	6	0.2	NW 11	
14	12	33.7	118.9	10	6	Sky unchanged	Cloudy	1011.2	6	1.0	SW 11	
14	18	33.3	119.8	10	6	Drzl and rain-lgt	Cloudy	1012.2	6	0.2	SE 11	
15	00	32.9	120.7	10	6	Sky unchanged	Cloudy	1011.5	6	0.6	SW 11	
15	06	32.4	121.7	10	5	Sky unchanged	Cloudy	1012.9	6	0.6	hove to	

SHIP'S SURFACE OBSERVATIONS - II

SHIP Crest

MONTH AND YEAR July 1950

OBSERVERS Davis Bergen, G. Waldor

Date GCT	Time GCT	Lat. °N.	Long. °W.	AMT	C L O U D S		HIGH TYPE	TEMPERATURE °F			WIND		W A V E S			
					L O W TYPE	M I D TYPE		HT	DRY BULB	WET BULB	SEA POINT	DEW POINT	DIR	SPD	DIR	PER
8	12	35.7	121.1	3	L4	0	0	54.0	53.0	58.2	52.0	270	05	270	8	3
8	18	35.7	121.3	9	L6	M6	/	62.0	58.0	56.0	55.0	270	09	270	8	3
9	00	35.3	122.1	9	L5	M6	/	59.9	56.8	60.8	54.7	270	09	270	6	5
9	06	34.6	121.9	9	L5	M6	/	59.5	57.1	59.0	55.7	340	05	320	6	5
9	12	34.7	121.1	8	L5	M4	/	59.6	57.3	60.8	56.0	320	05	320	6	3
9	18	34.1	121.2	9	L5	M4	/	63.0	61.2	57.4	60.4	90	02	320	5	3
10	00	33.8	121.9	5	L4	M4	H5	64.0	61.5	61.4	60.0	360	05	270	6	3
10	06	33.5	122.6	9	L4	M4	/	62.0	60.0	60.0	59.0	320	02	270	6	3
10	12	33.1	123.3	10	L4	/	/	60.0	59.5	61.5	59.0	320	09	270	6	3
10	18	32.5	124.5	10	L4	/	/	61.0	60.0	60.8	59.0	320	09	270	6	3
11	00	32.3	125.0	9	L1	/	/	62.0	58.0	61.5	55.0	360	09	270	6	3
11	06	31.8	125.9	9	L4	/	/	61.9	59.0	61.0	57.1	360	09	270	6	3
11	12	31.3	125.4	10	L4	/	/	60.3	58.1	61.5	56.9	360	09	340	6	3
11	18	30.6	124.5	10	L4	/	/	62.0	59.5	63.0	58.0	360	09	340	6	3
12	00	30.5	123.8	10	L5	/	/	64.0	61.8	63.0	60.6	360	09	340	6	3
12	06	30.9	123.1	0	0	0	0	62.0	60.0	62.6	59.0	360	18	340	10	8
12	12	31.4	122.3	0	0	0	0	62.0	59.0	63.0	57.0	360	18	340	8	8
12	18	31.7	121.4	9	L4	/	/	62.8	60.0	61.4	58.2	360	18	340	8	3
13	00	32.0	120.7	8	L4	/	/	63.1	60.0	60.8	57.9	360	18	340	8	8
13	06	32.4	120.0	5	L4	/	/	61.9	59.0	60.8	57.1	360	24	340	6	9 ¹ / ₂
13	12	32.6	119.5	10	L4	/	/	60.0	58.6	60.0	57.2	270	24	270	6	9 ¹ / ₂
13	18	32.9	118.9	10	L4	/	/	63.1	61.7	62.8	61.1	270	09	270	6	3
14	00	33.2	118.3	8	L4	/	/	71.0	67.3	68.0	67.0	230	09	230	5	1 ¹ / ₂
14	06	33.7	118.4	9	L4	/	/	69.5	67.0	68.3	65.5	230	02	230	5	1 ¹ / ₂
14	12	33.7	118.9	10	L4	/	/	64.0	63.0	67.5	62.0	270	05	270	5	1 ¹ / ₂
14	18	33.3	119.6	10	L4	/	/	60.1	59.0	59.3	57.9	270	09	270	8	3
15	00	32.9	120.7	10	L4	/	/	61.0	59.0	60.8	58.0	270	09	270	6	5
15	06	32.4	121.7	10	L4	/	/	60.5	58.6	60.8	57.6	270	09	270	6	5

SHIP'S SURFACE OBSERVATIONS - I

SHIP CrestMONTH AND YEAR July 1950OBSERVERS Davis Bergen, G. Walder

Date GCT	Time GCT	Lat. ON.	Long. OW.	Cloud Amt.	Vsby. miles	Present Weather	Past Weather	Pres. S.L.	3 hr. Tend.	3 Hr. Chg.	Avg. course	Ship speed
15	12	32.0	122.4	10	6	Sky unchanged	Cloudy	1012.9	6	0.0	hove to	to
15	18	32.6	122.8	10	6	Sky unchanged	Cloudy	1014.2	6	0.0	hove to	to
16	00	32.9	122.1	10	6	Sky unchanged	Cloudy	1012.9	6	0.2	hove to	to

SHIP'S SURFACE OBSERVATIONS - II

SHIP Crest

MONTH AND YEAR July 1950

OBSERVERS Davis Bergen, G. Walder

Date GCT	Time GCT	Lat. °N.	Long. °W.	AMT	C L O U D S			TEMPERATURE °F			W I N D			W A V E S		
					LOW TYPE	MID TYPE	HIGH TYPE	DRY BULB	WET BULB	SEA POINT	DIR	SPD	DIR	PER	HT	
15	12	32.0	122.4	10	1A	8	/	61.1	59.8	61.2	59.1	340	09	320	6	3
15	18	32.6	122.8	10	1A	8	/	61.1	59.0	61.0	57.9	340	09	320	6	14
16	00	32.9	122.1	10	1A	8	/	63.7	60.5	60.8	58.3	340	09	320	6	6 $\frac{1}{2}$

SHIP'S SURFACE OBSERVATIONS - I

SHIP Crest

MONTH AND YEAR August 1950

OBSERVERS W. H. Boede, S. Hicks, R. Kartrude

Date GCT	Time GCT	Lat. ON.	Long. OW.	Cloud Amt.	Vsby. miles.	Present Weather	Past Weather	Pres. S.L.	3 Hr. Tend.	3 Hr. Chg.	Avg. course	Ship speed
8	00	33.0	117.7	0	12	Vsby reduced by smoke	Clear	1015.1	/	-	NW	11
8	06	33.6	118.8	0	30	Cld dvlpmt not obsvd	Clear	1016.9	3	0.9	NW	11
8	12	34.2	119.8	0	30	Cld dvlpmt not obsvd	Clear	1016.6	8	0.2	W	11
8	18	34.6	120.3	7	30	Clds forming	Clear	1013.7	3	1.0	NW	11
9	00	35.5	121.4	8	30	Sky unchanged	Cloudy	1018.1	0	1.0	NW	11
9	06	36.2	121.9	0	30	Cld dvlpmt not obsvd	Partly cldy	1013.0	2	0.1	NW	11
9	12	36.6	122.4	0	30	Cld dvlpmt not obsvd	Clear	1018.7	3	0.3	hove to	to
9	18	37.1	122.9	10	6	Clds forming	Cloudy	1019.5	4	0.5	hove to	to
10	00	37.6	123.2	10	12	Cld's forming	Cloudy	1017.5	7	1.0	hove to	to
10	06	37.4	124.0	0	30	Cld dvlpmt not obsvd	Clear	1018.0	3	0.2	SW	11
10	12	37.1	124.8	0	30	Cld dvlpmt not obsvd	Clear	1018.1	2	0.0	SW	11
10	18	36.7	125.7	10	12	Clds forming	Cloudy	1020.0	2	1.0	SW	11
11	00	36.4	126.5	9	30	Clds dissolving	Cloudy	1020.5	2	0.3	SW	11
11	06	36.0	127.2	10	30	Sky unchanged	Cloudy	1022.0	4	1.2	SW	11
11	12	35.6	127.9	10	12	Clds forming	Cloudy	1022.2	2	0.1	hove to	to
11	18	35.3	128.6	9	30	Clds dissolving	Cloudy	1023.3	3	0.8	hove to	to
12	00	34.7	128.1	9	30	Clds dissolving	Cloudy	1023.0	7	0.2	SE	11
12	06	33.7	127.2	0	30	Cld dvlpmt not obsvd	Cloudy	1023.4	3	0.2	SE	11
12	12	33.3	126.7	0	30	Cld dvlpmt not obsvd	Clear	1021.3	8	1.0	NE	11
12	18	34.1	126.3	6	30	Clds dissolving	Cloudy	1022.3	2	0.5	NE	11
13	00	34.5	125.5	8	30	Clds forming	Partly cldy	1020.6	8	0.9	NE	11
13	06	34.8	124.7	8	12	Clds forming	Cloudy	1020.7	3	0.1	NE	11
13	12	35.0	124.0	0	12	Cld dvlpmt not obsvd	Cloudy	1019.0	7	0.8	NE	11
13	18	35.3	123.2	10	12	Sky unchanged	Partly cldy	1019.8	2	0.4	NE	11
14	00	35.8	122.6	3	12	Clds dissolving	Cloudy	1017.4	8	2.4	NE	11
14	06	35.8	122.0	10	12	Fog at distance-not at stn past hr	Fog	1016.5	7	0.5	SE	11
14	12	35.5	121.2	Obscd	6/10	Fog-sky not vsbl-be- coming thinner past hr.	Fog	1015.6	7	0.5	hove to	to

SHIP'S SURFACE OBSERVATIONS -- II

SHIP Crest

MONTH AND YEAR August 1950

OBSERVERS W.W. Boede, S. Hicks, R. Kartrudc

Date GCT	Time GCT	Lat. ON.	Lcng. OW.	AMT	C L O U D S		HIGH TYPE	TEMPERATURE OF			WIND		W A V E S			
					L O W TYPE	HT		MID TYPE	DRY BULB	WET BULB	SEA POINT	DIR	SPD	DIR	PFR	HT
8	00	33.0	117.7	0	0	0	0	68.5	64.0	-	61.5	290	15	310	5	3
8	06	33.6	118.8	0	0	0	0	69.8	61.0	65.5	55.2	330	08	310	5	3
8	12	34.2	119.8	0	0	0	0	61.0	56.5	59.2	53.0	320	10	310	5	3
8	18	34.6	120.8	7	L5	25	0	64.9	54.5	56.0	46.0	330	08	320	6	3
9	00	35.5	121.4	8	L5	25	0	60.5	58.0	59.4	56.5	340	12	310	6	3
9	06	36.2	121.9	0	0	0	0	60.0	56.5	55.0	54.0	330	10	320	6	3
9	12	36.6	122.4	0	0	0	0	58.0	55.0	53.2	53.0	330	08	320	6	3
9	18	37.1	122.9	10	L6	09	/	59.0	57.0	56.6	56.0	340	08	320	6	3
10	00	37.6	123.2	10	L6	09	/	57.8	56.0	59.2	54.8	320	11	320	6	3
10	06	37.4	124.0	0	0	0	0	59.0	56.0	56.3	54.0	320	12	320	8	5
10	12	37.1	124.8	0	0	0	0	61.5	58.0	59.0	55.5	310	10	320	8	5
10	18	36.7	125.7	10	L6	25	/	64.0	60.0	59.5	57.0	340	10	320	8	5
11	00	36.4	126.5	9	L5	30	/	61.9	61.2	61.2	58.5	340	08	340	6	3
11	06	36.0	127.2	10	L6	30	/	65.5	62.0	63.4	59.5	340	10	340	6	3
11	12	35.6	127.9	10	L6	15	/	67.0	62.0	63.5	59.0	320	06	340	6	3
11	18	35.3	128.6	9	L5	60	0	69.2	65.0	64.2	62.8	360	08	360	6	3
12	00	34.7	128.1	9	L8	60	0	70.0	64.0	64.5	61.0	350	06	360	6	5
12	06	33.7	127.2	0	0	u	0	69.0	63.0	64.6	59.0	360	08	360	6	3
12	12	33.8	126.7	0	0	u	0	67.0	61.9	64.2	58.8	360	08	360	6	3
12	18	34.1	126.3	6	L5	30	0	68.0	63.5	64.6	61.0	350	21	360	8	3
13	00	34.5	125.5	8	L5	25	0	66.9	63.5	62.6	61.1	360	16	360	8	5
13	06	34.8	124.7	8	L5	25	0	63.0	60.1	61.2	58.2	350	18	360	10	6
13	12	35.0	124.0	0	0	u	0	61.5	60.0	61.2	59.5	350	25	360	10	6
13	18	35.3	123.2	10	L5	20	/	62.8	61.0	62.0	60.2	360	24	360	10	8
14	00	35.8	122.6	3	L5	15	0	62.2	61.0	60.6	60.2	330	23	350	6	9
14	06	35.8	122.0	10	L6	15	/	58.0	53.5	60.5	50.0	320	20	340	6	8
14	12	35.5	121.2	Obscd	/	/	/	57.5	55.5	55.2	54.5	320	03	340	6	6

SHIP'S SURFACE OBSERVATIONS I

SHIP Crest MONTH AND YEAR August 1950

OBSERVERS W.W. Boede, S. Hicks, R. Kartrvde

Date GCT	Time GCT	Lat. ON.	Long. OW.	Cloud Amt.	Vsby. Miles	Present Weather	Past Weather	Pres. S.L.	2 Hr. Tend.	3 Hr. Chg.	Avg. course	Ship Speed
14	18	34.7	121.0	10	12	Clds dissolving	Fog	1016.9	3	02	SE	11
15	00	34.1	121.1	10	12	Sky unchanged	Cloudy	1015.4	7	07	hove to	
15	06	33.9	121.7	0	12	Clds dissolving	Partly cldy	1015.8	4	02	SW	11
15	12	33.5	122.4	0	30	Sky unchanged	Partly cldy	1016.2	3	02	hove to	
15	18	33.2	123.0	10	12	Sky unchanged	Cloudy	1017.8	2	08	SW	11
16	00	32.8	123.7	10	12	Sky unchanged	Cloudy	1017.6	6	01	hove to	
16	06	32.5	124.4	10	6/10	Drzl-continuous-igt	Drizzle	1018.0	2	02	hove to	
16	12	32.0	125.1	10	6/10	Drzl-continuous-igt	Drizzle	1017.6	2	02	SW	11
16	18	31.8	125.7	9+	12	Rain-intmt-med	Rain	1019.3	3	10	SE	11
17	00	30.8	124.5	9	1	Fog-sky vsbl-becoming thinner past hr	Drizzle	1017.7	8	08	SE	11
17	06	30.5	123.9	10	1	Fog in patches	Fog	1018.8	2	05	hove to	
17	12	30.9	123.1	*	2	Fog-sky not vsbl-be coming thinner past hr	Fog	1018.1	7	04	SE	11
17	18	31.4	122.3	10	2	Fog-sky not vsbl-be coming thinner past hr	Fog	1019.0	2	05	NE	11
18	00	31.7	121.6	10	2	Fog-sky not vsbl-be coming thinner past hr	Fog	1016.1	7	15	NE	11
18	06	32.1	120.8	10	6	Sky unchanged	Cloudy	1016.1	3	00	NE	11
18	12	32.4	120.1	10	2	Sky unchanged	Cloudy	1014.0	8	10	NE	11
18	18	32.7	119.5	10	2	Sky unchanged	Cloudy	1015.1	2	05	hove to	
19	00	32.9	118.8	10	12	Sky unchanged	Cloudy	1011.9	8	20	NE	11
19	06	33.2	118.3	10	2	Sky unchanged	Cloudy	1012.0	2	01	NE	11

* Sky obscured

SHIP'S SURFACE OBSERVATIONS - II

SHIP Crest

MONTH AND YEAR August 1950

OBSERVERS W.W. Boede, S. Hicks, R. Kartrude

Date GCT	Time GCT	Lat. ON.	Long. OW.	AMT	C L O U D S			TEMPERATURE OF			WIND		W A V E S			
					L O W TYPE	M I D TYPE	H I G H TYPE	DRY BULB	WET BULB	SEA	POINT DEW	DIR	SPD	DIR	PER	HT
14	18	34.7	121.0	10	L6	/	/	61.0	57.9	59.5	54.8	330	09	350	5	3
15	00	34.1	121.1	10	L6	/	/	62.0	61.5	61.2	61.0	320	08	330	5	3
15	06	33.9	121.7	0	0	0	0	61.2	59.7	60.1	59.2	320	07	330	5	3
15	12	33.5	122.4	0	0	0	0	60.9	58.8	61.0	57.7	320	08	320	5	5
15	18	33.2	123.0	10	L6	/	/	62.5	60.0	62.2	58.5	330	08	340	6	5
16	00	32.8	123.7	10	L6	/	/	64.8	61.5	63.5	59.2	320	08	340	6	3
16	06	32.5	124.4	10	L6	/	/	63.0	62.0	64.4	61.0	350	02	320	5	1 1/2
16	12	32.0	125.1	10	L6	/	/	64.0	62.0	65.2	61.0	340	04	320	5	1 1/2
16	18	31.8	125.7	9	L6	6	/	64.5	63.6	65.0	62.7	340	06	320	5	1 1/2
17	00	30.8	124.5	7	L6	3	0	68.9	64.5	69.0	62.1	Calm		340	6	1 1/2
17	06	30.5	123.9	10	L6	3	/	61.0	62.5	65.5	62.0	Calm		340	6	1 1/2
17	12	30.9	123.1	*	/	/	/	62.7	62.5	64.8	62.3	350	06	340	6	3
17	18	31.4	122.3	10	L6	/	/	66.0	63.0	64.4	61.0	340	07	320	8	3
18	00	31.7	121.6	10	L6	/	/	66.2	63.7	64.2	62.2	340	08	320	8	3
18	06	32.1	120.8	10	L6	/	/	63.0	61.8	64.0	61.0	300	10	320	8	5
18	12	32.4	120.1	10	L6	/	/	62.0	59.9	62.0	58.8	340	10	320	8	5
18	18	32.7	119.5	10	L6	/	/	61.5	59.5	62.4	58.5	300	16	320	8	3
19	00	32.9	118.8	10	L6	/	/	64.0	61.0	64.0	59.0	310	15	320	8	3
19	06	33.2	118.3	10	L6	/	/	64.0	60.6	66.2	58.2	300	14	320	8	3

* Sky obscured

SHIP'S SURFACE OBSERVATIONS - I

SHIP Crest

MONTH AND YEAR September 1950

OBSERVERS Hicks, Kartrude, & Thompson

Date GCT	Time GCT	Lat. ON.	Long. ON.	Cloud Amt.	Vsby. miles	Present Weather	Past Weather	Pres. S.L.	3 Hr. Tend.	3 Hr. Chg.	Avg. course	Ship speed
6	06	33.5	118.5	10	12	Clds forming	Cloudy	1013.1	3	00	NW	11
6	12	34.1	119.5	*	6/10	Fog-sky not vsbl-be-coming thicker past hr	Partly cldy	1012.3	8	04	NW	11
6	18	35.4	119.7	10	6	Clds forming	Cloudy	1011.3	3	10	NW	11
7	00	35.5	121.3	10	12	Clds forming	Cloudy	1012.5	7	08	NW	11
7	06	36.1	122.0	10	2	Clds forming	Cloudy	1012.6	2	00	hove to	11
7	12	35.7	122.8	10	2	Clds forming	Cloudy	1011.6	8	05	SW	11
7	18	35.4	123.6	10	12	Clds forming	Cloudy	1013.3	2	08	SW	11
8	00	35.3	124.0	10	12	Clds forming	Cloudy	1012.4	7	04	SW	11
8	06	34.8	124.6	10	12	Clds forming	Cloudy	1013.1	2	04	SW	11
8	12	34.5	125.5	10	12	Clds forming	Cloudy	1013.6	2	03	SW	11
8	18	34.2	126.3	10	12	Clds forming	Cloudy	1013.0	7	03	SW	11
9	00	33.7	127.0	10	12	Clds forming	Cloudy	1017.4	2	22	SW	11
9	06	33.4	127.7	10	12	Clds forming	Cloudy	1019.6	2	01	SW	11
9	12	33.0	128.5	4	12	Clds dissolving	Cloudy	1019.4	7	01	SW	11
9	18	32.7	129.4	8	12	Clds dissolving	Cloudy	1021.6	3	11	hove to	11
10	00	32.0	130.3	8	30	Sky unchanged	Cloudy	1021.1	2	03	hove to	11
10	06	31.9	130.7	10	30	Sky unchanged	Cloudy	1022.0	3	05	SW	11
10	12	31.6	131.5	10	12	Clds forming	Cloudy	1021.1	7	05	hove to	11
10	18	30.9	132.5	6	30	Clds dissolving	Cloudy	1022.4	2	08	hove to	11
11	00	30.7	132.3	6	30	Clds forming	Partly cldy	1020.4	8	20	SW	11
11	06	30.3	134.2	5	30	Clds dissolving	Partly cldy	1021.0	3	03	SW	11
11	12	29.8	135.0	*	6	Rain-continuous-lgt	Rain	1020.0	7	05	SW	11
11	18	29.4	135.7	3	30	Peprn in sight-distant reaching gnd	Partly cldy	1021.0	2	10	SW	11
12	00	28.9	136.6	6	30	Peprn in sight-distant reaching gnd	Partly cldy	1019.5	8	08	SW	11
12	06	28.6	137.3	9	12	Clds forming	Cloudy	1020.6	2	10	hove to	11

* Sky obscured

SHIP'S SURFACE OBSERVATIONS - II

SHIP Crest. MONTH AND YEAR September 1950

OBSERVERS Hicks, Kartrude, & Thompson

Date GCT	Time GCT	Lat. ON.	Long. OW.	AMT	C L O U D S			HIGH TYPE	DRY BULB	TEMPERATURE OF			SEA POINT	WIND DIR	SPD	W A V E S		
					L O W TYPE	HT	MID TYPE			WET BULB	DEW POINT	DIR				PER	HT	
6	06	33.5	118.5	10	L5	30	/	/	67.0	63.0	66.0	61.0	240	06		40	5	1½
6	12	34.1	119.5	*	/	/	/	/	61.0	62.0	64.4	61.0	240	06				
6	18	35.4	119.7	10	L5	8	/	/	60.0	57.0	60.0	55.0	260	10		30	8	3
7	00	35.5	121.3	10	L5	15	/	/	59.9	55.9	53.9	53.9	260	08		30	8	3
7	06	36.1	122.0	10	L5	15	/	/	61.0	56.0	58.0	52.0	90	08		30	8	3
7	12	35.7	122.8	10	L5	15	/	/	60.0	57.0	58.2	55.0	250	08		30	8	3
7	18	35.4	123.6	10	L5	27	/	/	62.5	57.0	62.1	53.5	230	08		30	8	5
8	00	35.3	124.0	10	L5	27	/	/	63.0	58.1	62.4	55.0	230	07		290	8	8
8	06	34.8	124.6	10	L5	27	/	/	62.0	58.0	62.2	55.0	240	06		290	3	8
8	12	34.5	125.5	10	L5	18	/	/	63.0	58.0	64.6	55.0	290	10		300	8	8
8	18	34.2	126.3	10	L5	28	/	/	65.0	59.0	63.9	55.0	320	09		290	8	8
9	00	33.7	127.0	10	L5	27	/	/	66.0	62.0	65.2	60.0	330	10		290	8	8
9	06	33.4	127.7	10	L5	30	/	/	66.0	61.5	67.3	59.0	330	10		290	8	8
9	12	33.0	128.5	4	L5	30	0	0	68.0	60.1	67.8	55.2	330	10		290	8	6½
9	18	32.7	129.4	8	L5	30	0	0	70.0	61.5	68.2	56.0	320	10		290	8	6½
10	00	32.0	130.3	8	L5	31	0	0	69.5	63.0	69.1	59.0	330	09		300	8	5
10	06	31.9	130.7	10	L5	16	/	/	69.0	63.0	68.0	60.0	340	11		340	8	5
10	12	31.6	131.5	10	L5	25	/	/	68.0	63.0	68.0	60.0	320	07				
10	18	30.9	132.5	4	L5	25	3	4	72.0	65.0	70.3	61.0	320	06		340	8	5
11	00	30.7	132.3	1	L1	37	3	0	73.9	66.0	71.1	61.1	50	11		20	6	1½
11	06	30.3	134.2	3	L1	37	3	0	70.0	64.5	69.0	61.0	60	09		20	6	1½
11	12	29.8	135.0	*	/	/	/	/	66.0	65.0	71.3	64.0	80	10		20	6	1½
11	18	29.4	135.7	5	L1	33	3	0	72.0	67.0	72.0	64.0	60	10		40	5	1½
12	00	28.9	136.6	6	L5	30	0	0	73.5	66.5	72.0	64.5	70	09		40	5	1½
12	06	28.6	137.3	9	L5	32	/	/	71.5	66.0	72.0	63.0	60	08		40	5	1½

* Sky obscured

SHIP'S SURFACE OBSERVATIONS - I

MONTH AND YEAR September 1950

SHIP Crest

OBSERVERS Hicks, Kartrude, & Thompson

Date	Time	Lat.	Long.	Cloud	Vsby.	Present Weather	Past Weather	Pres. S.L.	3 Hr. Tend.	3 Hr. Chg.	Avg. course	Ship speed
GCT	GCT	ON.	OW.	Amt.	miles							
12	12	27.9	136.8	9	30	Clds dissolving	Cloudy	1019.5	7	05	SE	11
12	18	27.3	136.3	9	12	Clds forming	Cloudy	1021.1	8	08	SE	11
13	00	26.5	135.7	3	30	Clds dissolving	Cloudy	1018.8	8	10	SE	11
13	06	25.8	135.1	2	30	Cld dvlpmnt not obsvd	Clear	1020.0	3	06	SE	11
13	12	25.1	134.5	8	12	Clds forming	Cloudy	1019.1	8	04	hove to	
13	18	25.4	134.0	3	30	Sky unchanged	Cloudy	1020.5	3	06	NE	11
14	00	25.7	133.3	3	30	Sky unchanged	Partly cldy	1019.1	7	07	NE	11
14	06	26.1	132.5	10	12	Clds forming	Partly cldy	1021.6	3	12	hove to	
14	12	26.4	131.6	3	12	Sky unchanged	Cloudy	1021.0	7	03	NE	11
14	18	26.9	130.7	9	6	Sky unchanged	Cloudy	1023.3	3	11	NE	11
15	00	27.4	130.1	9	12	Pcpn in sight-distant reaching gnd	Cloudy	1022.1	8	06	NE	11
15	06	27.8	129.3	6	6	Rain shwr durg past hr	Partly cldy	1022.7	2	06	NE	11
15	12	28.2	128.6	3	12	Cld dvlpmnt not obsvd	Partly cldy	1020.4	8	14	NE	11
15	18	28.6	127.6	2	30	Clds dissolving	Partly cldy	1021.3	3	05	NE	11
16	00	28.8	127.5	3	30	Sky unchanged	Partly cldy	1019.0	8	12	NE	11
16	06	29.3	126.3	2	6	Cld dvlpmnt not obsvd	Partly cldy	1018.7	7	03	NE	11
16	12	29.6	125.2	3	12	Clds dissolving	Partly cldy	1015.5	8	16	NE	11
16	18	30.0	124.5	10	6/10	Rain-continuous-lgt	Partly cldy	1015.5	5	00	hove to	
17	00	30.4	124.0	5	30	Clds dissolving	Cloudy	1012.9	8	13	hove to	
17	06	30.5	123.3	5	12	Sky unchanged	Partly cldy	1013.0	3	01	hove to	
17	12	31.2	122.6	1	12	Clds dissolving	Partly cldy	1011.6	7	07	NE	11
17	18	31.5	121.8	1	30	Sky unchanged	Clear	1013.9	3	12	NE	11
18	00	31.8	121.3	2	30	Clds dissolving	Partly cldy	1013.3	8	03	hove to	
18	06	32.3	120.4	2	30	Sky unchanged	Clear	1015.2	3	10	NE	11
18	12	32.6	119.7	0	12	Cld dvlpmnt not obsvd	Clear	1015.8	2	03	NE	11
18	18	32.9	118.9	1	12	Clds forming	Clear	1018.4	3	13	hove to	

SHIP'S SURFACE OBSERVATIONS - II

SHIP Crest

MONTH AND YEAR September 1950

OBSERVERS Hicks, Kartrude, & Thompson

Date GCT	Time GCT	Lat. ON.	Long. OW.	AMT	C L O U D S			HIGH TYPE	DRY BULB	TEMPERATURE OF WET BULB	SEA POINT	DEW POINT	WIND		W A V E S	
					LOW TYPE	MID TYPE	HT TYPE						DIR SPD	DIR PER	HT	
12	12	27.9	136.6	9	L5	0	0	0	70.0	65.0	69.4	62.0	30	09	40	5
12	18	27.3	136.3	9	L5	0	0	0	72.5	65.0	71.0	60.5	30	09	40	5
13	00	26.5	135.7	3	L3	0	0	0	75.0	67.0	71.5	64.0	30	08	30	6
13	06	25.8	135.1	2	L4	0	0	0	71.9	66.1	71.6	63.0	30	06	40	5
13	12	25.1	134.5	8	L5	/	/	/	71.0	65.5	71.4	62.0	30	09	40	5
13	18	25.4	134.0	2	L5	7	0	0	75.0	65.0	72.0	60.0	30	08	40	5
14	00	25.7	133.3	3	L1	7	0	0	75.9	66.0	72.5	60.1	90	15	90	6
14	06	26.1	132.5	10	L5	/	/	/	71.5	62.0	72.0	57.0	30	11	90	6
14	12	26.4	131.6	3	L5	0	0	0	72.0	63.5	71.1	53.0	30	10	30	6
14	18	26.9	130.7	9	L5	0	0	0	76.0	62.1	70.1	53.2	90	10	90	6
15	00	27.4	130.1	9	L5	0	0	0	73.5	64.5	70.5	59.5	60	03	70	6
15	06	27.8	129.3	6	L5	0	0	0	71.0	64.0	70.9	60.0	60	09	70	6
15	12	28.2	128.6	3	L5	0	0	0	67.4	63.5	69.3	61.6	60	10	90	6
15	18	28.6	127.6	2	L2	0	0	0	72.0	66.0	69.8	63.0	340	10	20	6
16	00	28.8	127.5	3	L1	0	0	0	73.5	67.5	70.3	64.5	340	09	CalM	6
16	06	29.3	126.3	2	L1	0	0	0	69.9	66.3	68.4	64.9	340	10	CalM	6
16	12	29.6	125.2	3	L1	0	0	0	68.5	66.0	68.5	64.5	330	09	350	6
16	18	30.0	124.5	10	L6	/	/	/	66.5	65.5	63.0	64.5	340	06	340	6
17	00	30.4	124.0	1	L2	5	0	0	70.5	65.6	63.0	62.7	290	10	300	6
17	06	30.5	123.3	5	L5	0	0	0	67.5	64.0	63.0	62.5	290	09	310	6
17	12	31.2	122.6	1	L5	0	0	0	67.5	63.5	66.6	61.5	290	08	310	6
17	18	31.5	121.8	1	L2	30	0	0	74.0	65.9	66.2	61.3	160	03	320	6
18	00	31.8	121.3	2	L2	25	0	0	71.0	64.5	63.2	61.0	140	03	320	6
18	06	32.3	120.4	2	L2	20	0	0	67.0	62.0	66.2	59.0	140	01	320	5
18	12	32.6	119.7	0	0	0	0	0	61.0	53.5	60.0	57.0	140	01	320	5
18	18	32.9	118.9	1	L2	20	0	0	63.5	63.0	63.3	59.5	270	03	270	5

SHIP'S SURFACE OBSERVATIONS - I

SHIP Crest MONTH AND YEAR September 1950

OBSERVERS Hicks, Kartrude, & Thompson

Date GCT	Time GCT	Lat. °N.	Long. °W.	Cloud Amt.	Vsby. miles	Present Weather	Past Weather	Pres. S.L.	3 Hr. Tend.	3 Hr. Chg.	Avg. course	Ship Speed
19	00	33.2	118.4	0	30	Sky unchanged	Clear	1016.7	8	09	hove to	
19	06	33.1	117.6	0	30	Cld dvlpmt not obsvd	Clear	1018.0	3	06	SE	11

SHIP'S SURFACE OBSERVATIONS - II

SHIP Crest MONTH AND YEAR September 1950

OBSERVERS Hicks, Kartrude, & Thompson

Date GCT	Time GCT	Lat. °N.	Long. °W.	AMT		C L O U D S			TEMPERATURE OF			W I N D			W A V E S			
				TYPE	HT	L C W	MID	HIGH	DRY BULB	WET BULB	SEA POINT	DEW POINT	DIR	SPD	DIR	PER	HT	DIR
19	00	33.2	113.4	0	0	0	0	0	66.0	61.0	62.3	53.0	270	10	270	5	5	1 1/2
19	06	33.1	117.6	0	0	0	0	0	65.9	61.9	65.3	59.9	270	10	270	5	5	1 1/2

SHIP'S SURFACE OBSERVATIONS - I

SHIP Horizon

MONTH AND YEAR July 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. ON.	Long. ON.	Cloud Amt.	Vsby. miles	Present Weather	Past weather	Press. S.L.	3 Hr. Tend.	3 Hr. Chg.	Avg. course	Ship speed
28	16	30.2	119.2	9+	12	Sky unchanged	Cloudy	1017.3	3	1.0	SW	8
28	18	29.9	119.4	9+	12	Sky unchanged	Cloudy	1018.3	3	1.0	SW	8
29	00	29.2	120.1	10	12	Sky unchanged	Cloudy	1017.9	9	0.7	SW	8
29	03	28.8	120.4	10	12	Sky unchanged	Cloudy	1018.0	4	0.1	SW	8
29	06	28.5	120.7	9+	12	Sky unchanged	Cloudy	1019.2	3	1.1	SW	8
29	12	27.7	121.3	9	12	Sky unchanged	Cloudy	1017.6	8	0.8	SW	8
29	16	27.3	121.6	8	12	Sky unchanged	Cloudy	1018.8	3	1.2	SW	8
29	18	27.3	121.6	9	12	Sky unchanged	Cloudy	1019.5	3	1.0	hove to	to
29	20	27.3	121.6	9	12	Sky unchanged	Cloudy	1018.3	9	1.2	hove to	to
30	00	27.3	121.6	8	12	Sky unchanged	Cloudy	1016.5	8	1.7	hove to	to
30	03	27.5	121.5	6	12	Sky unchanged	Cloudy	1015.9	8	0.6	hove to	to
30	06	27.4	121.6	10	12	Sky unchanged	Cloudy	1016.9	3	1.0	SW	5
30	12	26.8	122.2	10	12	Sky unchanged	Cloudy	1015.8	8	0.8	SW	8
30	16	26.4	122.6	10	12	Sky unchanged	Drizzle	1016.9	3	0.8	SW	8
30	18	26.0	122.8	9+	12	Sky unchanged	Cloudy	1016.8	9	0.1	SW	8
30	21	25.6	123.2	9+	12	Sky unchanged	Cloudy	1015.4	1	1.4	SW	8
31	00	25.2	123.6	9+	12	Peprn in sight-distant-reaching gnd	Showers	1014.6	8	0.8	SW	8
31	03	24.9	123.8	9+	12	Peprn in sight-distant-reaching gnd	Showers	1014.5	5	0.1	hove to	to
31	06	24.9	123.9	10	12	Sky unchanged	Showers	1015.7	3	1.2	W	2
31	12	24.3	124.4	9+	12	Sky unchanged	Cloudy	1014.3	8	0.5	SW	8
31	15	23.8	124.7	9+	12	Sky unchanged	Cloudy	1015.7	3	1.4	SW	8
31	18	23.4	124.9	9+	12	Sky unchanged	Cloudy	1016.8	3	1.1	SW	8
31	21	23.1	125.3	9+	12	Sky unchanged	Cloudy	1016.2	8	0.6	SW	8

SHIP'S SURFACE OBSERVATIONS - II

SHIP Horizon

MONTH AND YEAR July 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. ON.	Long. OW.	Amt.	CLOUDS			HIGH Type	Height	Dry Bulb	Temperature Of.		Dew Point
					LOW Type	MIDDLE Type	HEIGHT Type				Wet Bulb	Sea	
28	16	30.2	119.2	9+	L5	/	/		63.0	62.0	-	61.0	
28	18	29.9	119.4	9+	L5	/	/		64.8	61.6	-	59.4	
29	00	29.2	120.1	10	L5	/	/		64.2	61.0	63.5	58.8	
29	03	28.8	120.4	10	L5	/	/		63.4	60.3	-	58.2	
29	06	28.5	120.7	9+	L5	/	/		63.9	60.9	66.4	58.9	
29	12	27.7	121.3	9	L5	/	/		64.7	61.4	67.6	59.1	
29	16	27.3	121.6	8	L5	/	/		66.1	62.3	67.3	60.1	
29	18	27.3	121.6	9	L5	/	/		66.4	62.1	67.1	59.8	
29	20	27.3	121.6	7	L5	/	/		69.9	63.2	67.3	59.5	
30	00	27.3	121.6	8	L5	/	/		66.9	63.0	66.2	61.1	
30	03	27.5	121.5	6	L5	/	/		65.5	62.4	66.4	60.3	
30	06	27.4	121.6	10	L5	/	/		65.2	62.0	66.2	59.8	
30	12	26.8	122.2	10	L5	/	/		66.1	62.1	68.0	60.1	
30	16	26.4	122.6	10	L5	/	/		67.5	62.5	69.5	59.5	
30	18	26.0	122.8	9+	L5	/	/		69.7	64.1	69.9	60.6	
30	21	25.6	123.2	9+	L5	/	/		73.0	66.0	70.2	62.0	
31	00	25.2	123.6	9+	L2	M6	/		76.9	66.2	71.2	60.5	
31	03	24.9	123.8	7	L2	M6	/		69.5	65.0	71.0	62.5	
31	06	24.9	123.9	10	L8	/	/		69.0	62.6	72.7	59.0	
31	12	24.3	124.4	5	L5	M3	/		69.0	63.7	70.3	60.4	
31	15	23.8	124.7	9	L5	M3	/		67.3	63.0	70.1	60.7	
31	18	23.4	124.9	9	L5	M3	/		72.8	64.9	70.9	60.0	
31	21	23.1	125.3	9	L5	M3	/		74.0	65.7	74.1	61.4	

SHIP'S SURFACE OBSERVATIONS - III

MONTH AND YEAR July 1950

SHIP Horizon

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. ON.	Long. OW.	WIND		WAVES		REMARKS
				Direction	Speed	Direction	Period	
28	16	30.2	119.2	320	18	-	-	-
28	18	29.9	119.4	330	15	300	6	1 1/2
29	00	29.2	120.1	320	18	330	5	1 1/2
29	03	28.8	120.4	340	19	330	5	1 1/2
29	06	28.5	120.7	340	18	320	5	1 1/2
29	12	27.7	121.3	340	17	320	6	1 1/2
29	16	27.3	121.6	340	19	340	6	1 1/2
29	18	27.3	121.6	340	18	340	6	3
29	20	27.3	121.6	340	18	340	6	3
30	00	27.3	121.6	340	24	340	6	3
30	03	27.5	121.5	330	18	330	6	3
30	06	27.4	121.6	340	16	340	6	3
30	12	26.8	122.2	330	11	330	6	1 1/2
30	16	26.4	122.6	320	19	340	6	3
30	18	26.0	122.8	330	17	340	6	3
30	21	25.6	123.2	330	15	310	10	1 1/2
31	00	25.2	123.6	330	20	350	12	1 1/2
31	03	24.9	123.8	340	12	360	8	1 1/2
31	06	24.9	123.9	330	11	350	8	1 1/2
31	12	24.3	124.4	360	06	320	8	1 1/2
31	15	23.8	124.7	40	05	330	8	1 1/2
31	18	23.4	124.9	120	03	330	5	1 1/2
31	21	23.1	125.3	330	07	340	8	1 1/2

SHIP'S SURFACE OBSERVATIONS - I

SHIP Horizon

MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. ON.	Long. OW	Cloud Amt.	Vsby. Miles	Present Weather	Past weather	Press. S.L.	3 Hr. Tend.	3 Hr. Chg.	Avg. course	Ship speed
1	00	22.9	125.5	8	12	Sky unchanged	Cloudy	1015.1	8	1.1	SW	8
1	03	22.5	125.8	10	12	Pcpn in sight-distant-reaching gnd	Showers	1015.8	3	0.7	SW	8*
1	06	22.1	126.2	9	12	Pcpn in sight-near by	Showers	1017.0	3	1.2	SW	8
1	12	21.3	126.8	9	12	Sky unchanged	Cloudy	1015.7	8	0.7	SW	8
1	16	21.0	127.1	7	12	Sky unchanged	Partly cldy	1016.6	4	0.9	SW	8
1	18	20.8	127.2	7	12	Sky unchanged	Cloudy	1016.9	1	0.3	hove to	
1	21	20.8	127.2	1	12	Clds dissolving	partly cldy	1017.0	1	0.1	hove to	
2	00	20.8	127.3	3	12	Pcpn in sight-distant-reaching gnd	Showers	1015.8	6	1.2	hove to	
2	03	20.8	127.3	9	12	Pcpn in sight-not reaching gnd	Showers	1016.6	3	0.8	hove to	
2	06	20.6	127.4	10	12	Rain shwr-Lgt	Showers	1017.8	1	1.2	hove to	
2	12	20.0	127.9	10	12	Sky unchanged	Showers	1016.6	6	0.5	SW	8
2	16	19.5	128.3	3	12	Sky unchanged	Cloudy	1017.4	1	0.5	SW	11
2	18	19.4	128.3	9	12	Sky unchanged	Cloudy	1017.6	3	0.2	hove to	
2	21	19.4	128.4	9	12	Sky unchanged	Cloudy	1016.7	9	0.9	hove to	
3	00	19.5	128.4	9	12	Sky unchanged	Cloudy	1015.8	8	0.9	hove to	
3	04	19.5	128.4	9	12	Sky unchanged	Cloudy	1015.5	8	0.3	hove to	
3	06	19.3	128.6	9	12	Sky unchanged	Cloudy	1017.1	4	1.5	hove to	
3	12	19.3	128.7	10	12	Sky unchanged	Cloudy	1015.8	5	0.6	SW	2
3	15	18.9	129.0	10	12	Sky unchanged	Cloudy	1015.8	3	0.0	SW	8
3	18	18.6	129.3	9	12	Sky unchanged	Cloudy	1016.3	3	0.5	SW	8
3	21	18.2	129.7	10	12	Rain shwr-mod or hvy	Cloudy	1015.5	9	0.8	SW	8
4	00	17.8	129.9	10	12	Rain shwr-mod or hvy	Showers	1014.1	8	1.4	SW	8
4	03	17.5	130.3	10	6	Pcpn in sight-distant-reaching gnd	Showers	1014.5	3	0.4	SW	8
4	06	17.2	130.6	8	6	Rain shwr-mod or hvy	Showers	1015.1	1	0.6	SW	8

* Sky obscured.

SHIP'S SURFACE OBSERVATIONS - II

SHIP Horizon

MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. ON.	Long. OW.	Amt.	CLOUDS			Temperature °F.		Dew Point	
					LOW Type	MIDDLE Type	HIGH Type	Dry Bulb	Wet Bulb		
1	00	22.9	125.5	1-	L8	M3	/	74.1	66.0	73.8	61.9
1	03	22.5	125.8	9+	L5	M3	/	76.0	66.0	73.9	60.0
1	06	22.1	126.2	9+	L5	/	/	70.0	66.1	73.8	64.2
1	12	21.3	126.8	4	L8	M3	/	71.4	67.1	75.4	64.8
1	16	21.0	127.1	7	L5	/	/	73.4	67.7	75.2	65.0
1	18	20.8	127.2	6	L8	M3	/	74.3	69.1	75.0	66.9
1	21	20.8	127.2	1	L8	/	/	75.1	68.2	76.3	64.4
2	00	20.8	127.3	3	L8	/	/	73.6	68.8	76.3	66.6
2	03	20.8	127.3	9+	L2	/	/	74.3	69.0	76.3	66.7
2	06	20.8	127.4	10	L3	/	/	74.0	68.0	75.4	65.0
2	12	20.0	127.9	10	L5	/	/	73.8	67.2	74.7	63.6
2	16	19.5	128.3	3	L8	/	/	75.3	68.5	75.2	64.9
2	18	19.4	128.3	9+	L5	/	/	76.9	69.4	75.2	65.9
2	21	19.4	128.4	9	L8	/	/	76.2	69.0	75.2	65.8
3	00	19.5	128.4	9	L8	/	/	79.0	70.8	75.2	66.6
3	04	19.5	128.4	9	L8	/	/	74.9	69.1	75.2	66.3
3	06	19.3	128.6	9	L8	/	/	74.7	67.3	75.2	63.5
3	12	19.3	128.7	10	L8	/	/	74.0	68.6	77.0	66.2
3	15	18.9	129.0	10	L8	/	/	74.3	69.9	75.0	67.5
3	18	18.6	129.3	9+	L8	/	/	76.7	70.0	75.4	66.7
3	21	18.2	129.7	10	L8	/	/	76.3	72.0	78.6	69.9
4	00	17.8	129.9	10	L8	/	/	76.0	72.5	78.8	71.0
4	03	17.5	130.3	6	L8	M6	/	76.9	74.0	79.2	72.9
4	06	17.2	130.3	Obscured	Obscured	/	/	75.0	75.0	78.8	75.0

SHIP'S SURFACE OBSERVATIONS - III

SHIP Horizon

MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. °N.	Long. °W.	WIND Direction	Speed	Direction	WAVES		REMARKS
							Period	Height	
1	00	22.9	125.5	360	04	350	6	1 1/2	
1	03	22.5	125.8	360	07	350	10	1 1/2	
1	06	22.1	126.2	50	05	30	10	1 1/2	
1	12	21.3	126.8	70	05	*	6	1 1/2	
1	16	21.0	127.1	130	08	30	12	1 1/2	
1	18	20.8	127.2	100	12	100	21	1 1/2	
1	21	20.8	127.2	80	09	100	21	1 1/2	
2	00	20.8	127.3	40	06	90	21	1 1/2	
2	03	20.8	127.3	50	12	90	21	1 1/2	
2	06	20.8	127.4	70	13	70	21	1 1/2	
2	12	20.0	127.9	70	14	90	21	1 1/2	
2	16	19.5	128.3	40	18	40	5	3	
2	18	19.4	128.3	50	16	50	21	3	
2	21	19.4	128.4	30	14	60	21	3	
3	00	19.5	128.4	70	18	70	5	3	
3	04	19.5	128.4	50	18	50	5	3	
3	06	19.3	128.6	60	18	60	5	3	
3	12	19.3	128.7	60	19	60	5	3	
3	15	18.9	129.0	60	20	60	5	5	
3	18	18.6	129.3	60	21	60	5	5	
3	21	18.2	129.7	80	22	70	5	5	
4	00	17.8	129.9	50	19	60	6	5	
4	03	17.5	130.3	50	18	50	6	5	
4	06	17.2	130.6	50	19	50	6	5	

* indeterminate

SHIP'S SURFACE OBSERVATIONS - I

SHIP Horizon

MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. ON.	Long. OW.	Cloud Amt.	Vsty. miles	Present Weather	Past weather	Press. S.L.	3 Hr. Tend.	3 Hr. Chg.	Avg. course	Ship speed
4	12	16.5	131.2	10	6	Rain Shwr-Mod or Hvy	Showers	1012.0	8	1.8	SW	8
4	16	16.1	131.6	10	6	Rain Shwr-Mod or Hvy	Showers	1012.7	3	0.7	SW	8
4	18	15.8	131.9	9	6	Rain Shwr-Mod or Hvy	Showers	1013.1	3	0.4	SW	8
4	21	15.4	132.3	9	12	Sky unchanged	Cloudy	1012.7	8	0.4	SW	8
5	00	15.1	132.5	5	12	Clds dissolving	Cloudy	1011.6	8	1.1	SW	8
5	03	14.7	132.8	9	12	Rain shwr-Mod or Hvy	Showers	1012.7	4	1.1	SW	8
5	06	14.5	133.0	7	12	Sky unchanged	Cloudy	1013.8	3	1.1	SW	8
5	09	14.4	133.1	3	12	Clds dissolving	Partly cldy	1013.7	1	0.1	S	2
5	12	14.4	133.1	9	12	Clds forming	Partly cldy	1012.8	5	0.9	hove to	to
5	15	14.4	133.1	7	12	Clds dissolving	Cloudy	1013.8	3	1.0	hove to	to
5	18	14.4	133.1	4	12	Clds dissolving	Partly cldy	1015.1	3	1.3	hove to	to
5	21	14.4	133.1	9	12	Peprn in sight-distant- reaching gnd	Partly cldy	1014.7	8	0.4	hove to	to
6	00	14.4	133.1	9	12	Peprn in sight-distant- reaching gnd	Showers	1013.6	8	1.1	hove to	to
6	03	14.4	133.1	10	12	Rain shwr-Mod or Hvy	Showers	1013.9	1	0.3	hove to	to
6	06	14.4	133.1	6	12	Clds dissolving	Showers	1015.1	3	1.2	hove to	to
6	17	13.9	133.4	9	12	Sky unchanged	Cloudy	1014.0	3	1.3	SW	5
6	18	13.9	133.6	6	12	Sky unchanged	Cloudy	1014.4	3	1.2	hove to	to
6	21	13.8	133.7	8	12	Sky unchanged	Cloudy	1013.5	0	0.1	hove to	to
7	00	13.7	133.7	9	12	Peprn in sight-distant- reaching gnd	Showers	1012.1	8	2.4	SW	8
7	03	13.5	133.9	8	12	Sky unchanged	Showers	1012.6	3	0.5	hove to	to
7	06	13.5	134.0	3	12	Clds dissolving	Cloudy	1013.6	1	1.0	SW	5
7	12	12.8	134.4	7	12	Sky unchanged	Cloudy	1010.2	8	1.0	SW	8
7	15	12.7	134.4	9	12	Peprn in sight-near by	Cloudy	1011.1	3	0.9	hove to	to
7	16	12.7	134.4	*	12	Rain shwr-Mod or Hvy	Cloudy	1011.7	-	-	hove to	to
7	17	12.8	134.4	10	12	Squall	Showers	1012.1	3	1.2	N	5

* Sky obscured

SHIP'S SURFACE OBSERVATIONS - II

SHIP Horizon

MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. °N.	Long. °W.	Amt.	LCW Type	Height	CLOUDS			HIGH Type	Height	Temperature °F.		
							Amt.	Type	Height			Dry Bulb	Wet Bulb	Sea
4	12	16.5	131.2	10	L8	20	/		/		76.3	75.3	80.6	75.3
4	16	16.1	131.6	6	L3	20	M6		H2		79.2	77.0	80.6	76.2
4	18	15.8	131.9	9+	L8	15	/		/		80.1	77.2	80.6	76.2
4	21	15.4	132.3	9	L2	20	M6		H3		81.2	76.9	81.1	75.0
5	00	15.1	132.5	1	L9	25	M6		H3		80.7	75.7	81.9	73.7
5	03	14.7	132.8	8	L8	38	M6		H3		79.0	75.3	80.8	73.6
5	06	14.5	133.0	7	L8	35	0		0		79.3	75.2	81.0	73.3
5	09	14.4	133.1	3	L2	30	0		0		79.0	76.1	77.0	75.2
5	12	14.4	133.1	9+	L8	50	/		/		78.5	74.8	81.1	73.1
5	15	14.4	133.1	2	L9	20	M6		H3		79.0	74.9	81.1	73.0
5	18	14.4	133.1	1-	L9	20	M6		H3		83.5	76.6	81.5	73.7
5	21	14.4	133.1	9	L3	21	M6		H9		82.4	76.1	81.5	73.8
6	00	14.4	133.1	4	L3	20	M6		H3		81.1	76.4	81.5	74.4
6	03	14.4	133.1	10	L3	15	/		/		77.0	74.9	81.6	73.8
6	06	14.4	133.1	6	L3	20	0		0		77.7	75.0	81.0	74.1
6	17	13.9	133.4	1-	L1	25	M6	5	H3	50	79.0	71.4	81.0	67.8
6	18	13.9	133.6	1	L1	25	M6		H3		81.1	73.0	81.0	69.9
6	21	13.8	133.7	7	L8	25	M6		H3		79.8	73.6	81.0	71.3
7	00	13.7	133.7	9+	L2	25	/		/		82.2	74.5	81.5	71.5
7	03	13.5	133.9	6	L2	25	M6		H3		79.4	72.3	80.6	69.2
7	06	13.5	134.0	3	L4	25	0		0		79.6	73.6	81.0	71.2
7	12	12.8	134.4	1	L1	25	M6	6	0	55	79.2	73.6	81.2	71.0
7	15	12.7	134.4	9+	L8	20	/		H3		-	-	81.1	-
7	16	12.7	134.4	*	/		/		/		-	-	-	-
7	17	12.8	134.4	4	L3	25	M6	9	/		79.0	75.3	81.1	75.6

* Sky obscured

SHIP'S SURFACE OBSERVATIONS - III

SHIP Horizon

MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. °N.	Long. °W.	WIND Direction	Speed	Direction	WAVES		K E L A R K S
							Period	Height	
4	12	16.5	131.2	60	25	50	6	6 $\frac{1}{2}$	
4	16	16.1	131.6	50	34	50	6	8	
4	18	15.8	131.9	110	20	-	-	-	
4	21	15.4	132.3	140	10	100	6	6 $\frac{1}{2}$	
5	00	15.1	132.5	180	10	170	6	6 $\frac{1}{2}$	
5	03	14.7	132.8	170	10	150	6	5	
5	06	14.5	133.0	190	06	170	6	5	
5	09	14.4	133.1	170	07	170	5	3	
5	12	14.4	133.1	190	02	40	6	1 $\frac{1}{2}$	
5	15	14.4	133.1	calm		70	8	3	
5	18	14.4	133.1	190	03	70	8	3	
5	21	14.4	133.1	110	02	50	6	3	
6	00	14.4	133.1	40	10	60	6	1 $\frac{1}{2}$	
6	03	14.4	133.1	50	14	60	6	3	
6	06	14.4	133.1	90	04	60	6	3	
6	17	13.9	133.4	50	18	50	6	3	
6	18	13.9	133.6	60	17	50	6	3	
6	21	13.8	133.7	50	17	60	6	3	
7	00	13.7	133.7	50	15	60	6	3	
7	03	13.5	133.9	60	16	60	6	3	
7	05	13.5	134.0	30	15	50	6	3	
7	12	12.8	134.4	60	14	50	5	3	
7	15	12.7	134.4	-	-	-	-	-	
7	16	12.7	134.4	-	-	-	-	-	
7	17	12.8	134.4	40	21	40	6	5	

SHIP'S SURFACE OBSERVATIONS - I

SHIP		Horizon		MONTH AND YEAR										August 1950	
Date	Time	Lat.	Long.	Cloud	Vsby.	Present	Past	Pres.	3 Hr.	3 Hr.	Chg.	Avg.	Ship		
GCT	GCT	ON	OW	Amt.	miles	Weather	weather	S.L.	Tend.	Tend.	Chg.	course	speed		
7	18	12.8	134.4	10	12	Pcpn in sight-near by	Showers	1012.5	3	3	1.4	N	2		
7	21	12.8	134.4	10	12	Pcpn in sight-near by	Showers	1011.7	8	8	0.8	hove to	to		
8	00	12.8	134.4	9	12	Sky unchanged	Showers	1010.5	8	8	1.2	hove to	to		
8	04	12.7	134.3	10	12	Pcpn in sight-distant-reaching gnd	Showers	1011.4	3	3	0.9	S	2		
8	06	12.4	134.6	10	12	Rain continuous-lgt	Showers	1012.7	3	3	1.3	SW	8		
8	12	11.6	135.0	10	12	Rain shwr-mod or hvy	Showers	1011.0	6	6	1.3	SW	8		
8	16	11.1	135.3	9	12	Pcpn in sight-distant-reaching gnd	Showers	1012.3	4	4	0.4	SW	8		
8	17	10.9	135.5	9	12	Pcpn in sight-distant-reaching gnd	Showers	1012.4	2	2	1.6	SW	5		
8	18	10.8	135.6	9	12	Rain shwr-mod or hvy	Showers	1012.8	2	2	1.8	SW	8		
8	21	10.6	135.7	10	12	Rain-continuous-lgt	Rain	1010.7	3	3	2.1	SW	8		
9	00	10.6	135.9	10	12	Rain shwr-durg past hr	Rain	1010.2	8	8	0.5	hove to	to		
9	04	10.4	135.9	9	12	Rain shwr durg past hr	Showers	1010.9	3	3	0.5	hove to	to		
9	06	10.3	136.0	10	12	Clds dissolving	Showers	1011.8	0	0	0.9	SW	8		
9	12	10.1	136.1	7	12	Clds dissolving	Showers	1010.1	8	8	2.0	SW	8		
9	15	09.7	136.4	9	12	Pcpn in sight-distant-reaching gnd	Showers	1010.6	4	4	0.5	SW	8		
9	18	09.7	136.4	9	12	Pcpn in sight-distant-reaching gnd	Showers	1012.4	3	3	1.8	hove to	to		
9	21	09.7	136.3	9	12	Pcpn in sight-distant-reaching gnd	Showers	1011.7	9	9	0.7	hove to	to		
10	00	09.6	136.4	9	12	Pcpn in sight-distant-reaching gnd	Showers	1009.4	8	8	2.3	SW	5		
10	04	09.5	136.4	9	12	Sky unchanged	Cloudy	1010.0	3	3	0.6	hove to	to		
10	06	09.4	136.4	10	6	Rain shwr.-mod or hvy	Cloudy	1011.8	3	3	1.8	SW	2		
10	12	08.8	136.7	10	12	Sky unchanged	Cloudy	1010.0	6	6	1.8	SW	8		

SHIP'S SURFACE OBSERVATIONS -- II

SHIP Horizon MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. ON	Long. OW	Amt.	LOW Type	Height	Amt.	C L O U D S			HIGH Type	Height	Dry Bulb	Wet Bulb	Temperature of.	
								MIDDLE Type	Height	Amt.					Sea	Dew Point
7	18	12.8	134.4	10	L8	20		/				78.3	75.6	81.1	74.9	
7	21	12.8	134.4	9	L3	20		M2				80.7	75.7	81.1	73.7	
8	00	12.8	134.4	9	L8	20		M2				81.9	73.3	81.1	69.7	
8	04	12.7	134.3	9+	L8	35		M2				79.3	75.3	81.0	73.3	
8	06	12.4	134.6		0		10	M2	20			77.2	75.4	81.1	74.5	
8	12	11.6	135.0	5	L2	20		M2				78.8	75.2	81.1	73.6	
8	16	11.1	135.3	7	L8	45		M9				75.9	70.0	80.8	67.1	
8	17	10.9	135.5	6	L8	50		M9		H2		77.9	72.3	80.2	69.7	
8	18	10.8	135.6	7	L8	20		M9				78.2	74.0	80.2	72.2	
8	21	10.6	135.7	1	L2	10	9	M7	50			76.0	74.2	81.5	73.4	
9	00	10.6	135.9	7	L2	10		M7				76.9	74.6	81.1	73.3	
9	04	10.4	135.9	9+	L8	12		/				82.9	76.6	81.1	74.3	
9	06	10.3	136.0	10	L2	10		/				77.4	74.4	81.1	73.4	
9	12	10.1	136.1	7	L4	50		0		0		78.2	74.2	80.8	72.2	
9	15	09.7	136.4	3	L1	12		M3		H9		78.8	74.9	81.5	73.0	
9	18	09.7	136.4	6	L2	15		M3		H2		80.3	75.3	81.5	73.3	
9	21	09.7	136.3	8	L8	35		M2		/		80.8	76.3	81.7	74.3	
10	00	09.6	136.4	5	L8	12	7	M6	35	/		80.0	75.5	81.7	74.0	
10	04	09.5	136.4	7	L3	12		M6		/		77.8	75.0	81.7	74.1	
10	06	09.4	136.4	10	L3	15		/		/		78.7	75.0	81.1	73.3	
10	12	08.8	136.7	10	L8	15		/		/		79.5	75.0	81.5	73.5	

SHIP'S SURFACE OBSERVATIONS - III

SHIP Horizon

MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. °N.	Long. °W.	WIND Direction	SPEED	DIRECTION	PERIOD	HEIGHT	REMARKS
7	18	12.8	134.4	60	25	20	6	5	
7	21	12.8	134.4	80	23	50	8	6 $\frac{1}{2}$	
8	00	12.8	134.4	40	23	50	8	6 $\frac{1}{2}$	
8	04	12.7	134.3	40	21	40	8	6 $\frac{1}{2}$	
8	06	12.4	134.6	30	15	30	8	5	
8	12	11.6	135.0	60	17	40	8	5	
8	16	11.1	135.3	290	06	40	8	5	
8	17	10.9	135.5	340	07	10	8	5	
8	18	10.8	135.6	260	03	10	8	5	
8	21	10.6	135.7	330	04	340	8	3	
9	00	10.6	135.9	90	07	360	8	3	
9	04	10.4	135.9	30	09	indeter		3	
9	06	10.3	136.0	210	08	indeter		3	
9	12	10.1	136.1	220	10	indeterminate			
9	15	09.7	136.4	190	10	180	6	3	
9	18	09.7	136.4	210	12	170	8	5	
9	21	09.7	136.3	190	12	180	6	5	
10	00	09.6	136.4	190	16	180	6	5	
10	04	09.5	136.4	200	12	180	6	3	
10	06	09.4	136.4	140	09	140	6	5	
10	12	08.8	136.7	160	16	160	6	5	

SHIP'S SURFACE OBSERVATIONS - I

SHIP _____
Horizon _____

MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. ON	Long. ON	Cloud Amt.	Vsby. miles	Present Weather	Past weather	Pres. S.L.	3 Hr. Tend.	3 Hr. Chg.	Avg. course	Ship speed
10	16	08.5	136.8	7	12	Pcpn in sight-distant reaching gnd	Partly cldy	1010.0	2	0.0	SW	8
10	18	08.3	136.8	9+	12	Sky unchanged	Showers	1011.6	3	1.6	SW	8
10	21	08.0	137.0	9+	12	Sky unchanged	Cloudy	1011.0	9	0.6	SW	8
11	00	07.7	137.1	9+	12	Sky unchanged	Cloudy	1009.3	6	1.7	SW	8
11	03	07.3	137.2	7	12	Sky unchanged	Cloudy	1009.9	4	0.5	SW	8
11	06	06.9	137.4	9	12	Sky unchanged	Cloudy	1011.8	3	2.0	SW	8
11	12	06.4	137.9	10	12	Sky unchanged	Cloudy	1009.4	8	1.8	SW	8
11	15	06.1	138.1	9+	12	Sky unchanged	Cloudy	1010.4	4	1.0	SW	8
11	18	05.8	138.3	7	12	Sky unchanged	Cloudy	1012.0	3	1.6	SW	8
11	21	05.6	138.6	7	12	Sky unchanged	Cloudy	1011.8	9	0.2	SW	8
12	00	05.3	138.9	8	12	Clds forming	Cloudy	1009.7	8	2.1	SW	6
12	03	04.9	139.6	10	12	Clds forming	Cloudy	1010.0	4	0.3	SW	8
12	06	04.7	139.8	8	12	Sky unchanged	Cloudy	1012.2	3	2.2	SW	8
12	12	04.6	140.0	9+	12	Sky unchanged	Cloudy	1010.3	8	0.9	move to	
12	16	04.6	140.0	9+	12	Sky unchanged	Cloudy	1011.2	1	0.9	NW	2
12	18	04.7	140.1	4	12	Sky unchanged	Partly cldy	1012.7	4	1.4	NW	2
12	21	04.7	140.6	8	12	Sky unchanged	Cloudy	1012.4	8	0.3	NW	2
13	00	05.0	140.8	5	12	Sky unchanged	Cloudy	1010.0	8	1.4	NW	8
13	01	05.2	141.0	6	12	Sky unchanged	Cloudy	1010.0	8	1.4	NW	8
13	04	05.2	141.0	6	12	Sky unchanged	Cloudy	1010.9	3	0.6	NW	2
13	05	05.2	141.0	6	12	Sky unchanged	Cloudy	1012.5	3	1.7	move to	
13	12	05.7	141.6	4	12	Sky unchanged	Partly cldy	1011.2	8	1.3	NW	11
13	15	05.9	141.8	1	12	Sky unchanged	Partly cldy	1011.0	6	0.2	NW	8
13	16	05.9	141.8	4	12	Sky unchanged	Partly cldy	1011.4	3	0.8	NW	2
13	18	05.9	141.8	7	12	Clds forming	Cloudy	1012.6	3	1.6	move to	
13	21	05.9	141.8	3	12	Clds dissolving	Cloudy	1012.6	0	0.0	move to	
14	00	05.9	141.6	1	12	Sky unchanged	Partly cldy	1010.6	3	2.0	move to	

SHIP'S SURFACE OBSERVATIONS - II

SHIP Horizon

MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. ON.	Long. OW.	Amt.	CLOUDS			HIGH Type	Ant.	Height	Temperature OF.		Dew Point	
					LOW Type	MIDDLE Type	M6				Dry Bulb	Wet Bulb		Sea
10	16	08.5	136.8	6	L3		M6				79.1	75.4	80.8	73.7
10	18	08.3	136.8	5	L1, L2		M6, M5	1-		200	80.8	75.0	81.0	73.0
10	21	08.0	137.0	9+	L5, L1						80.6	73.4	81.0	70.3
11	00	07.7	137.1	9+	L5, L1						80.2	72.9	81.3	69.7
11	03	07.3	137.2	7	L5, L1		M5			120	78.8	72.0	81.0	69.2
11	06	06.9	137.4	9	L5, L1						78.3	71.9	81.0	69.3
11	12	06.4	137.9	10	L5						78.0	70.7	80.2	67.4
11	15	06.1	138.1	9+	L5, L1						77.8	71.1	80.2	68.3
11	18	05.8	138.3	9	L5, L1						78.1	71.4	80.6	68.7
11	21	05.6	138.6	7	L1						78.3	70.9	79.9	67.5
12	00	05.3	138.9	3	L1		M8	7		200	77.8	70.0	79.7	66.2
12	03	04.9	139.6	6	L1			10		200	77.8	71.5	79.2	68.7
12	06	04.7	139.8	5	L1		0				77.2	71.8	79.7	69.4
12	12	04.6	140.0	6	L1			6		200	77.1	71.5	80.1	68.9
12	16	04.6	140.0	3	L1	15	M3	4		200	77.2	71.4	80.1	68.6
12	18	04.7	140.1	1	L1	18	M3	4		200	80.0	73.9	80.1	71.8
12	21	04.7	140.6	4	L1	20		7		200	80.5	73.0	80.1	69.8
13	00	05.0	140.8	1	L1	20		5		200	81.9	73.8	80.6	70.7
13	01	05.2	141.0	1	L2	25	M5	2		300	-	-	-	-
13	04	05.2	141.0	2	L2	25	M5	3		300	78.9	72.0	79.3	59.1
13	06	05.2	141.0	3	L2	25		4		300	78.5	72.0	79.3	69.5
13	12	05.7	141.6	3	L4	25					78.3	71.0	80.0	67.7
13	15	05.9	141.8	1	L2	25					78.9	71.4	79.5	67.9
13	16	05.9	141.8	1	L2	25		4		200	79.3	73.4	79.5	70.7
13	18	05.9	141.8	7	L5, L2	40					80.2	73.4	79.5	70.6
13	21	05.9	141.8	3	L3	25					79.6	73.8	79.5	71.4
14	00	05.9	141.8	1	L2	25					80.1	73.3	80.1	70.5

SHIP'S SURFACE OBSERVATIONS - III

SHIP Horizon

MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. ON.	Long. OW.	WIND		WAVES		REMARKS
				Direction	Speed	Direction	Period	
10	16	08.5	136.8	180	19	180	6	5
10	18	08.3	136.8	180	20	170	6	6 1/2
10	21	08.0	137.0	160	18	160	6	6 1/2
11	00	07.7	137.1	190	17	170	6	6 1/2
11	03	07.3	137.2	150	16	190	6	6 1/2
11	06	06.9	137.4	160	16	160	6	5
11	12	06.4	137.9	170	21	160	6	5
11	15	06.1	138.1	160	20	160	6	5
11	18	05.8	138.3	170	19	170	5	3
11	21	05.6	138.6	160	22	180	5	3
12	00	05.3	138.9	150	22	150	5	3
12	03	04.9	139.6	140	24	140	5	3
12	06	04.7	139.8	140	21	140	5	3
12	12	04.6	140.0	130	18	140	5	3
12	16	04.6	140.0	130	20	130	5	3
12	18	04.7	140.1	140	18	140	5	3
12	21	04.7	140.6	140	22	140	5	3
13	00	05.0	140.8	150	23	130	5	3
13	01	05.2	141.0	-	-	-	-	-
13	04	05.2	141.0	140	18	130	5	3
13	06	05.2	141.0	140	18	120	5	3
13	12	05.7	141.6	130	17	130	5	3
13	15	05.9	141.8	120	21	170	5	3
13	16	05.9	141.8	110	21	170	5	3
13	18	05.9	141.8	120	20	140	6	3
13	21	05.9	141.8	120	18	140	5	5
14	00	05.9	141.8	150	17	140	6	3

Ac banded but not invading sky

Ac are plate like

Advancing Ac sheet with conv zone to North Cu show shear to WSW with height.

SHIP'S SURFACE OBSERVATIONS - I

SHIP Horizon

MONTH AND YEAR

August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. ON.	Long. OW.	Cloud Amt.	Visby. Miles	Present Weather	Past Weather	Pres. S.L.	3 Hr. Tend.	3 Hr. Chg.	Avg. course	Ship Speed
14	04	06.1	142.1	3	12	Sky unchanged	Partly cldy	1011.5	4	1.1	NW	8
14	06	06.3	142.3	1-	12	Sky unchanged	Clear	1012.1	3	2.3	NW	8
14	12	07.0	142.8	10	12	Clds Forming	Cloudy	1010.8	8	2.0	NW	8
14	15	07.3	143.0	9	12	Peprn in sight--distant-- reaching Gnd	Cloudy	1010.8	4	0.0	NW	8
14	16	07.4	143.1	9	2	Rain shwr-mod or hvy	Cloudy	-	-	-	NW	8
14	18	07.7	143.2	9	12	Peprn in sight--near by	Showers	1012.5	3	1.7	NW	8
14	21	07.7	143.2	10	12	Rain Shwr-mod or hvy	Showers	1012.4	9	0.1	hove to	8
15	00	08.0	143.4	10	12	Rain Shwr-mod or hvy	Showers	1010.1	7	2.3	NW	8
15	03	08.3	143.7	*	12	Rain-intmt-mod	Rain	1009.9	5	0.2	NW	8
15	06	08.6	144.0	4	12	Clds Dissolving	Rain	1011.6	2	1.7	NW	8
15	12	09.1	144.4	9	12	Rain-intmt-Lgt	Rain	1009.9	7	1.5	NW	2
15	15	09.2	144.4	9	12	Peprn in sight--distant-- reaching Gnd	Rain	1010.0	3	0.8	hove to	8
15	18	09.4	144.7	9	12	Sky unchanged	Showers	1011.1	1	1.1	NW	2
15	21	09.7	145.0	7	12	Sky unchanged	Cloudy	1010.8	9	0.3	NW	8
16	00	10.0	145.2	7	12	Sky unchanged	Cloudy	1009.5	6	1.3	NW	5
16	03	10.0	145.2	6	12	Peprn in sight--distant-- reaching Gnd	Cloudy	1010.1	4	0.6	hove to	8
16	06	10.0	145.2	1-	12	Clds dissolving	Showers	1011.9	3	1.6	hove to	8
16	12	10.4	145.6	1-	12	Sky unchanged	Partly cldy	1010.7	8	1.8	NW	8
16	15	10.7	145.7	1-	12	Sky unchanged	Clear	1010.8	4	0.1	NW	8
16	18	10.7	145.9	8	12	Peprn in sight--distant-- reaching Gnd	Showers	1012.8	3	2.0	hove to	8
16	21	10.7	145.9	9	6	Rain shwr-mod or hvy	Showers	1013.3	1	0.4	SW	2
17	00	10.7	145.9	9	6	Peprn in sight--distant-- reaching Gnd	Showers	1010.8	7	2.5	hove to	8
17	03	10.7	145.9	3	6	Rain shwr-mod or hvy	Showers	1011.4	4	0.6	NE	2

* Sky obscured

SHIP'S SURFACE OBSERVATIONS - II

SHIP _____ Horizon

MONTH AND YEAR August 1950

OBSERVATIONS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. ON	Long. OW	Amb.	CLOUDS			HIGH Type	Amt.	Height	Temperature CF.			
					LOW Type	MIDDLE Type	HEIGHT Type				Dry Bulb	Wet Bulb	Dew Point	
14	04	06.1	142.1	2	L4	M3			1	120	79.5	72.5	80.6	69.5
14	06	06.3	142.3	1-	L4						79.3	72.8	81.0	70.3
14	12	07.0	142.8	10	L5, L2						79.6	73.2	80.6	70.7
14	15	07.3	143.0	9	L5, L3						78.1	72.2	81.9	69.3
14	16	07.4	143.1	9+	L3			1-	H2	200				
14	18	07.7	143.2	8	L5, L3			5	M1	120	76.8	72.8	80.9	70.8
14	21	07.7	143.2	10	L5, L3						75.9	72.9	81.4	71.9
15	00	08.0	143.4	10	L3, L5						77.0	73.3	81.1	71.6
15	03	08.3	143.7	Obscured							73.8	73.4	80.6	72.8
15	06	08.6	144.0	4	L4						75.8	73.8	81.1	72.8
15	12	09.1	144.4	9+	L8						77.1	74.3	80.1	73.1
15	15	09.2	144.4	9	L5, L3			4	M7	---	79.0	77.4	80.1	76.8
15	18	09.4	144.7	5	L5, L2			5	M7	140	79.3	74.8	81.0	73.3
15	21	09.7	145.0	1-	L3			6	M6	70	80.0	75.0	80.8	73.0
16	00	10.0	145.2	5	L1, L3			3	M6	70	81.6	75.3	81.9	73.0
16	03	10.0	145.2	6	L3			1-	M6	70	82.0	75.6	80.8	73.2
16	06	10.0	145.2	1-	L3						82.3	75.1	80.8	72.1
16	12	10.4	145.6	1-	L1						79.2	74.6	81.5	73.0
16	15	10.7	145.7	1-	L3, L1			1-	M6	170	78.8	74.8	81.1	72.8
16	18	10.7	145.9	1-	L3, L1			3	M6	110	80.0	75.0	80.6	73.0
16	21	10.7	145.9	7	L3, L1			4	M6	200				
17	00	10.7	145.9	8	L2, L3			1	M6	110	78.5	75.9	80.1	75.3
17	05	10.7	145.9	9+	L9			1-	M6	110	82.3	75.7	80.1	73.1
17	05	10.7	145.9	9+	L9			1-	M6	110	77.8	74.8	81.0	73.8

SHIP'S SURFACE OBSERVATIONS - III

SHIP Horizon

MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. °N.	Long. °W.	WIND Direction	Speed	Direction	WAVES Period	Height	REMARKS
14	04	06.1	142.1	140	10	*	21	1 1/2	*indeterminate
14	06	06.3	142.3	140	10	140	6	1 1/2	
14	12	07.0	142.8	140	07	140	6	1 1/2	
14	15	07.3	143.0	140	06	110	6	3	
14	16	07.4	143.1	-	-	-	-	-	Special Observation
14	18	07.7	143.2	340	07	110	6	3	
14	21	07.7	143.2	330	06	*	21	1 1/2	*indeterminate
15	00	08.0	143.4	270	07	Indeter			
15	03	08.3	143.7	210	12	100	8	3	bits of Ac, Ci vsbl thru break in distance
15	06	08.6	144.0	190	14	100	8	1 1/2	
15	12	09.1	144.4	230	02	90	8	1 1/2	
15	15	09.2	144.4	140	03	120	8	3	Cb seen thru breaks
15	18	09.4	144.7	240	06	60	8	3	Line of towering Cu extending E-W thru Ship position.
15	21	09.7	145.0	210	12	30	10	3	
16	00	10.0	145.2	250	09	70	21	1 1/2	
16	03	10.0	145.2	120	07	70	8	3	
16	06	10.0	145.2	200	09	*	21	1 1/2	*indeterminate
16	12	10.4	145.6	190	06	*	21	1 1/2	Lightning reported to N about 1100
16	15	10.7	145.7	140	08	40	6	3	Cu towers on horizon
16	18	10.7	145.9	180	03	20	8	1 1/2	Shwrs vsbl on horizon
16	21	10.7	145.9	80	03	20	6	1 1/2	
17	00	10.7	145.9	230	04	30	8	3	
17	03	10.7	145.9	340	03	40	6	3	

SHIP'S SURFACE OBSERVATIONS I

SHIP Horizon

MONTH AND YEAR August 1950

OBSERVERS J. Edinger, L. Johnson, L. Sherman

Date	Time	Lat.	Long.	Cloud	Vsby.	Present Weather	Past weather	Press.	3 Hr.	3 Hr.	Avg.	Shi
GCT	GCT	ON.	OW.	Amt.	Miles			S.L.	Tend.	Chg.	course	.spe.
17	06	10.7	145.9	2	6	Clds dissolving	Showers	1012.8	3	1.4	E	2
17	12	11.2	146.4	9	12	Clds forming	Showers	1012.4	8	1.5	NW	11
17	16	11.7	147.0	9	12	Peppn in sight-near by	Showers	1013.5	3	1.1	NW	11
17	18	11.8	147.2	9	12	Peppn in sight-distant-reaching gnd	Showers	1014.1	3	0.6	NW	11
17	21	12.2	147.6	6	12	Peppn in sight-distant-reaching gnd	Showers	1014.0	9	0.1	NW	11
18	00	12.6	148.0	9	12	Peppn in sight-distant-reaching gnd	Cloudy	1012.6	5	1.6	NW	11
18	03	12.9	148.4	9	12	Peppn in sight-distant-reaching gnd	Showers	1012.4	7	0.2	NW	11
18	06	13.2	148.8	5	12	Clds dissolving	Showers	1013.8	2	1.4	NW	11
18	12	13.7	149.2	6	12	Peppn in sight-near by	Partly cloudy	1012.8	8	1.1	hove to	to
18	15	13.9	149.3	6	12	Clds dissolving	Showers	1012.4	6	0.4	hove to	to
18	18	14.0	149.3	9	12	Sky unchanged	Showers	1013.7	3	1.3	hove to	to
18	21	14.1	149.4	9	12	Rain shwr-durg past hr	Showers	1013.3	9	0.4	hove to	to
19	00	14.1	149.5	9	12	Rain shwr-igt	Showers	1011.9	8	1.4	NW	5
19	03	14.3	149.7	10	6	Rain shwr-igt	Showers	1011.9	2	0.0	NW	8
19	06	14.4	150.2	9	12	Sky unchanged	Showers	1013.0	4	1.1	NW	11
19	12	14.6	151.2	9	12	Rain shwr-igt	Showers	1012.2	4	1.7	NW	11
19	17	14.8	151.8	9	12	Rain shwr-durg past hr	Showers	1013.1	1	0.6	NW	2
19	18	14.8	151.8	9	12	Peppn in sight-distant-reaching gnd	Showers	1013.1	4	0.8	hove to	to
19	21	14.8	151.8	9	12	Peppn in sight-distant-reaching gnd	Showers	1012.9	9	0.2	hove to	to
20	00	14.7	151.9	9	6	Sky unchanged	Showers	1011.4	8	1.5	hove to	to
20	03	14.6	152.0	9	6	Peppn in sight-distant-reaching gnd	Cloudy	1011.5	4	0.1	hove to	to

SHIP'S SURFACE OBSERVATIONS - II

SHIP Horizon

MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. °N	Long. °W	Wind Dir	Wind Spd	Sea Hgt	Sea Dir	CLOUDS						Temperature of			
								Amt.	Type	Height	Amt.	Type	Height	Amt.	Type	Dry Bulb	Wet Bulb
17	06	10.7	145.9	1	L9	20		1	M6	110	1-	H3	200	78.7	75.0	80.5	73.3
17	12	11.2	146.4	9+	L4	20								77.5	74.1	81.9	72.7
17	16	11.7	147.0	6	L4,L3	60		5	M6	100	1-	M6	160	78.8	75.0	80.1	73.2
17	18	11.8	147.2	2	L3,L5	18		6	M6	100	2	H1		78.8	75.0	81.1	73.2
17	21	12.2	147.6	2	L9,L3	15		3	M6	100	3	H3	250	80.7	76.2	81.9	74.2
18	00	12.6	148.0	9	L5,L3	60		4	M6	100	1-	H3		81.0	76.8	81.3	74.6
18	03	12.9	148.4	9+	L5,L3	60		1	M6	100				79.5	75.9	80.1	74.3
18	06	13.2	148.8	3	L3	20		3	M6	100	1	H3	250	79.2	76.1	79.5	75.0
18	12	13.7	149.2	1	L2,L3	20		6	H3		6	H3		78.3	75.2	79.2	74.1
18	15	13.9	149.3	3	L1	20		1	M3	100	2	H5		78.2	74.9	78.8	73.6
18	18	14.0	149.3	3	L1,L3	20		8	M3	100				79.0	75.3	79.2	73.6
18	21	14.1	149.4	9	H2	20		1-	M6	100	1-	H3	250	79.5	75.9	79.2	74.3
19	00	14.1	149.5	9+	L2	20		1-	M6	100	1-	H3	200	78.8	75.9	79.5	75.0
19	03	14.3	149.7	10	L5,L3	65		9	H6		9	H6	250	78.8	75.9	79.2	75.0
19	06	14.4	150.2	3	L4	50								78.5	75.5	79.0	74.5
19	12	14.6	151.2	9	L4,L2	20								79.0	75.8	79.2	74.6
19	17	14.8	151.8	1	L3	15		9+	M2M6	65				77.4	75.2	79.2	74.3
19	18	14.8	151.8	3	L3,L7	15		2	M6	100	9+	H3	250	78.7	76.1	79.5	75.5
19	21	14.8	151.8	2	L3	20		9	M6	120	1-	H3	250	80.0	76.3	79.5	74.6
20	00	14.7	151.9	2	L2	12		9	M6	120	2	H3		81.0	76.6	79.5	74.6
20	03	14.6	152.0	4	L2,L3	15		9+	M6	75				79.5	75.5	79.5	73.5

SHIP'S SURFACE OBSERVATIONS - III

SHIP Horizon

MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. ON.	Long. OW.	WIND Direction	Speed	Direction	WAVES		REMARKS
							Period	Height	
17	06	10.7	145.9	180	07	*	6	3	* indeterminate
17	12	11.2	146.4	80	04	*	6	3	
17	15	11.7	147.0	130	09	40	6	1 1/4	few Ci on horizon
17	18	11.8	147.2	140	03	40	6	1 1/2	Doldrum Cu families with some shearing of tops toward SW
17	21	12.2	147.6	140	02	40	6	1 1/2	
18	00	12.6	148.0	100	09	50	6	1 1/2	
18	03	12.9	148.4	120	08	40	6	1 1/2	waterspout reported to SW
18	06	13.2	148.8	60	19	indeter		3	
18	12	13.7	149.2	60	15	40	5	3	Radar picked up shwrs at 3 Mi
18	15	13.9	149.3	60	18	20	5	3	
18	18	14.0	149.3	70	17	60	6	3	
18	21	14.1	149.4	60	16	70	5	3	
19	00	14.1	149.5	70	13	80	21	3	
19	03	14.3	149.7	70	13	80	21	3	
19	06	14.4	150.2	60	16	80	21	3	
19	12	14.6	151.2	60	17	80	21	3	
19	17	14.8	151.8	70	18	80	21	3	
19	18	14.8	151.8	70	16	60	21	3	
19	21	14.8	151.8	60	18	70	21	3	
20	00	14.7	151.9	70	17	70	5	3	
20	03	14.6	152.0	80	20	80	5	5	Lt shwrs on horizon

SHIP'S SURFACE OBSERVATIONS - I

SHIP Horizon

MONTH AND YEAR

August 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. °N.	Long. °W.	Cloud Amt.	Vsby. Miles	Present weather	Past Weather	Pres. S.d.	3 Hr. Tend.	3 Hr. Chg.	Avg. course	Ship Speed
20	06	14.6	152.0	9+	12	Sky unchanged	Showers	1012.6	3	1.1	hove to	
20	12	15.2	152.3	2	12	Clds dissolving	Showers	1011.7	7	1.3	NW	11
20	15	15.7	152.6	9+	12	Clds forming	Partly cldy	1012.6	4	0.9	NW	11
20	18	16.2	152.8	3	12	Peprn in sight-distant- reaching gnd	Showers	1014.1	3	1.5	NW	11
20	21	16.6	153.1	9+	12	Rain shwr-lgt	Showers	1014.7	0	0.5	NW	11
21	00	17.1	153.3	9+	12	Sky unchanged	Showers	1013.7	9	1.0	NW	11
21	03	17.8	153.7	5	12	Sky unchanged	Cloudy	1013.7	4	0.0	NW	11
21	06	18.1	153.9	1-	12	Clds dissolving	Cloudy	1015.7	3	2.0	NW	11
21	12	19.0	154.4	9+	12	Sky unchanged	Cloudy	1016.0	9	0.8	NW	11
21	15	19.5	154.7	7	12	Peprn in sight-distant- reaching gnd	Cloudy	1016.4	4	0.4	NW	11
21	18	19.8	155.0	7	12	Sky unchanged	Showers	1017.5	3	1.1	NW	5
21	21	19.9	155.0	1-	12	Clds dissolving	Cloudy	1017.5	0	0.0	NW	2
22	03	20.1	155.3	1	12	Sky unchanged	Partly cldy	1014.8	6	0.7	hove to	
22	10	20.2	154.7	1-	12	Sky unchanged	Partly cldy	1017.5	0	0.4	hove to	
22	15	20.5	154.8	1	12	Sky unchanged	Partly cldy	1016.1	5	0.4	N	2
22	21	20.4	154.9	4	12	Sky unchanged	Partly cldy	1017.5	0	0.3	hove to	
23	10	20.3	156.1	1	12	Peprn in sight-distant- reaching gnd	Showers	1016.7	9	0.3	Sw	8

SHIP'S SURFACE OBSERVATIONS - II

SHIP _____ Horizon _____

MONTH AND YEAR AUGUST 1950

OBSERVERS J. Edinger, D. Johnson, L. Sherman

Date GCT	Time GCT	Lat. ON	Long. OW	Amt	LOW		Amt	CLOUDS		HIGH Type	Height	Amt.	TEMPERATURE OF		Dew Point	
					Type	Height		Type	Height				Dry Bulb	Wet Bulb		Sea
20	06	14.6	152.0	1	L4, L3	30	9+	M6	75				78.6	75.1	79.9	73.6
20	12	15.2	152.3	2	L1	20							79.0	75.2	79.5	73.4
20	15	15.7	152.6	9+	L1	20							78.3	75.5	79.3	74.7
20	18	16.2	152.8	3	L5, L3	40							78.6	75.8	79.3	75.0
20	21	16.6	153.1	9+	L2	20							78.3	75.4	79.2	74.5
21	00	17.1	153.3	3	L2	20	6	M3	120	HI	200	1	80.0	75.3	79.3	73.6
21	03	17.8	153.7	2	L2	20				HI	200	3	80.3	75.0	79.3	73.0
21	06	18.1	153.9	1-	L1, L2	20							78.4	73.4	79.2	71.4
21	12	19.0	154.4	6	L4	20				HI	200	5	79.5	73.6	78.4	71.1
21	15	19.5	154.7	7	L2	20							77.0	72.5	79.0	71.0
21	18	19.8	155.0	7	L2	25							78.1	73.8	78.1	72.1
21	21	19.9	155.0	1-	L1, L2	20				HI		1-	81.5	74.3	77.3	71.3
22	03	20.1	155.3	1	L1, L5	20							78.0	74.0	78.6	72.0
22	10	20.2	154.7	1-	L1	20							76.8	72.0	78.6	70.1
22	15	20.5	154.8	1	L2, L1	20	1-	M6	70				76.4	71.2	78.1	69.0
22	21	20.4	154.9	3	L2	26	1	M6	80				81.3	73.9	78.1	69.9
23	10	20.3	156.1	1	L3	20							78.0	73.6	79.7	72.0

SHIP'S SURFACE OBSERVATIONS - III

MONTH AND YEAR August 1950

SHIP Horizon

OBSERVERS J. Edinger, D. Johnson, L. Sherman

REMARKS

Date GCT	Time GCT	Lat. °N.	Long. °W.	WIND		WAVES			REMARKS
				Direction	Speed	Direction	Period	Height	
20	06	14.6	152.0	90	19	80	5	3	
20	12	15.2	152.3	80	23	80	5	5	
20	15	15.7	152.6	90	20	60	6	5	
20	18	16.2	152.8	50	20	60	6	5	
20	21	16.6	153.1	80	21	60	6	5	
21	00	17.1	153.3	80	21	80	6	6 $\frac{1}{2}$	
21	03	17.8	153.7	90	18	90	5	5	
21	06	18.1	153.9	90	19	90	5	5	
21	12	19.0	154.4	90	13	indeterminate			
21	15	19.5	154.7	80	07	60	5	1 $\frac{1}{2}$	
21	18	19.8	155.0	220	09	130	6	1 $\frac{1}{2}$	Line of Cu along Mauna Loa & Kea
21	21	19.9	155.0	140	10	80	6	1 $\frac{1}{2}$	
22	03	20.1	155.3	110	16	110	21	1 $\frac{1}{2}$	Shwrs over Mauna Kea
22	10	20.2	154.7	130	10	*	21	1 $\frac{1}{2}$	*indeterminate
22	15	20.5	154.8	140	09	*	21	1 $\frac{1}{2}$	Towering Cu on E & N Horizon
22	21	20.4	154.9	120	09	120	21	1 $\frac{1}{2}$	Ac mostly on horizon E & S
23	10	20.3	156.1	60	16	*	21	1 $\frac{1}{2}$	*indeterminate

3. CODED SURFACE OBSERVATIONS

In this section the observations are tabulated using the following symbolic form:

YQL L L
a a a

L L L GG
c o o

Nddff

VVwwW

PPPTT

N C h C S
h M H

D V app
s s

8N Ch h
s s s

OT T T T
s s d d

ld d P H
w w w w

Since it is presumed that the coded form will be used only by those experienced with weather codes, the meaning of these symbols, and the code tables for deciphering will not be reproduced here.

CODED SHIP'S SURFACE OBSERVATIONS

SHIP Crest MONTE AND YEAR July 1949

OBSERVERS E. Regelsom & J. Bartlett

Day of Month	YQJLL AAA	LLGG OO	Nddff	VVwww	PPPTT	NCHCL LL MR	Dvapp SS	SNChh S SS	OTTT SSdd	lddPH www
1	61321	19418	82909	98022	19659	85500	6/316		0//46	
2	61319	20000	72809	98022	17960	75400	54808		0//56	12973
2	61318	20206	73103	98022	18259	75400	00103		0//56	
2	61314	20912	/3102	98022	183//					
2	61311	21618	73202	98022	19761	75500	00116		0//56	13063
3	71308	22300	82703	97022	18362	85400	00608		0//56	12992
3	71305	23006	83404	97022	19260	85300	54312		0//55	
3	71303	23412	73313	98022	188//					
3	71299	24118	83204	98025	19863	85400	54103		0//56	12753
4	11296	24700	73104	98025	18764	75400	54603		0//57	12763
4	11293	24606	70113	97028	19763	77400	34408		0//55	
4	11286	23712	70218	98022	181//					
4	11279	23018	80213	98508	18664	87500	00105		0//58	13642
5	21282	22400	83613	98025	17365	85500	00817		0//57	13662
5	21285	21906	83613	97022	17862	85400	00103		0//56	
5	21289	21312	83413	97028	168//					
5	21292	20718	80218	98022	17864	85500	00108		0//57	13453
6	31295	20100	83418	98022	15863	85400	00814		0//59	13562
6	31299	19506	83616	98022	16361	85400	00316		0//55	
6	31302	18912	83418	98022	154//					
6	31306	18218	80618	98022	16762	85500	00007		0//55	13253
7	41309	17600	60313	99022	14763	64400	14615		05556	13302
7	41313	16906	61410	98022	14962	65400	00603		05357	
7	41306	16612	83118	98022	144//					
7	41296	16318	63405	98022	15865	65400	44308		00058	13331
8	51292	16800	43003	99011	14365	44400	54710		00059	13343
8	51288	17208	63313	98022	15661	65400	54318		05357	
8	51284	18012	82709	98022	152//					
8	51281	18618	70209	99022	17264	75400	00308		00057	13053
9	61277	19300	60205	98022	15665	64400	00515		00059	13243
9	61273	19906	63613	98022	16763	65400	00217		05258	
9	61270	20512	80000	98022	167//					
9	61266	21118	73313	98022	18067	65400	00312		00158	13042
10	71262	21800	80109	98022	17367	85400	00607		00059	13254
10	71259	22406	70309	98022	18165	75400	00310		05257	
10	71250	21612	83609	98022	168//					
10	71241	20818	70509	99022	17668	75400	34105		00162	13342
11	11240	20200	63209	98022	16168	65400	14617		00061	13243
11	11243	19706	73609	98022	16265	75400	14305		05430	
11	11248	19012	80113	98022	150//					
11	11254	18318	53613	99011	15868	54400	14102		05160	13643
12	21260	17900	43413	99021	14468	34450	24708		05260	13633
12	21264	17106	23609	98021	15467	24400	24312		05162	
12	21266	16512	60209	99031	152//					
12	21270	16018	20209	98010	16470	11408	14210		00464	14964
13	31275	16200	03513	99020	13767	00900	14817		00164	

CODED SHIP'S SURFACE OBSERVATIONS

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SHIP Crest

MONTH AND YEAR July 1949

OBSERVERS E. Regelson & J. Bartlett

Day of Month	YQLLL aaa	ILLGG ooo	Nddff	VVwww	PPPTT	NCGCC HL MH	Dyapp ss	8NCgh s ss	OTTTT ss dd	lddPH www
13	31277	14906	03609	99020	14869	00900	00102		00763	
13	31277	14912	40000	99021						
13	31277	14918	23513	98020	14775	00902	00102		01203	
14	41276	16400	42913	98020	13469	24404	74917		00564	13644
14	41287	16106	23413	98020	14166	00902	14117		00163	
14	41293	16512	63213	97021	158//					
14	41300	16818	63613	98021	14066	45404	73210		0//63	13175
15	51308	17100	63118	98021	12366	65400	73612			
15	51316	17406	43213	98021	13363	45400	83110		0//69	
15	51324	17312	80000	98022						

CODED SHIP'S SURFACE OBSERVATIONS

SHIP CrestMONTH AND YEAR August 1949OBSERVERS E. Regelson & J. Bartlett

Day of Month	YQLLL aaa	LLGG ooo	Nddff	VVwwW	PPPTT	NChQJ hL MH	Dvapp ss	8NChh s ss	OTTTT aadd	lddPH www
4	51317	17200	82908	98022	12766	86300	44810			
4	51308	16606	82908	98022	13764	86300	44410			
4	51287	15618	83209	98022	14768	86300	34315		05164	13032
5	61283	15200	71002	98022	11872	66378	00808		052//	
5	61283	15306	82709	98021	14568	86300	54415		05163	
5	61274	15418	73112	99012	15068	75430	54010		05263	13135
6	71270	16000	73109	98022	12663	75430	54618		05263	13153
6	71266	16606	73203	98022	15267	75430	54315		05262	13142
6	71261	17212	85305	98022	14267	85400	54908		05361	
6	71256	18018	83205	98022	16468	85500	54109		05463	13254
7	11251	18600	73608	98022	14770	75500	54818		05365	13545
7	11248	19106	83408	98022	16870	85500	54325		05463	
7	11243	19712	63608	98012	15869	85500	54610		05563	
7	11238	20518	53415	99011	17172	55500	00205		05164	
8	21245	21100	73609	98031	16371	75500	74610		05164	
8	21252	21706	70220	98021	17168	75500	74405		05165	
8	21259	22412	50213	98021	17067	55500	00205		05362	13644
8	21262	21718	50113	99021	18468	55500	00310		05363	10145
9	31268	21100	50113	99021	16068	55500	00814		05464	13645
9	31271	20506	53617	99021	16166	55500	00400		05461	
9	31276	19912	73609	98031	15365	75500	00400		05459	13645
9	31282	19118	73413	98022	16265	75500	00108		05359	13645
10	41285	18600	23420	99011	14467	25500	00810		05359	
10	41284	18606	13413	99021	15064	15500	00300		05654	
10	41290	17512	63612	98022	14065	65500	14300		05457	
10	41292	16818	63605	98022	15868	65500	14115		05158	13622
11	51295	16200	13213	99021	14568	15500	00915		00160	13222
11	51302	16306	43413	99021	15965	45500	00110		05260	
11	51312	17012	73218	98022	16764	75500	74306		05256	
11	51310	17518	63218	98022	19764	65500	00320		05258	13234
12	61306	18400	73113	98022	18864	75500	00504		05360	13134
12	61303	18806	23117	99021	19664	25500	00003		05257	
12	61300	19312	63318	98022	19364	65500	00300		05257	13164
12	61295	20118	73318	98022	20866	75500	00310		05256	13134
13	71291	20800	53321	98022	18766	65500	00820		05263	13144
13	71288	21306	83520	98022	19467	85500	00405		05100	
13	71284	22012	73318	98022	18566	75500	54805		05360	13653
13	71280	22818	83620	98022	20267	85500	54302		05259	
14	11280	23000	83618	98022	18667	85500	74920		05261	13653
14	11287	23906	63620	98022	20266	65500	74315		05358	
14	11295	24812	83620	98022	20065	85500	74300		05357	
14	11293	24316	83618	98022	21066	85500	14303		05158	
15	21302	23600	23613	99011	20566	28600	00805		00053	
15	21305	23006	63618	98031	20564	68600	14105		05250	
15	21308	22212	83418	98022	19563	88600	00300		05260	13433
15	21311	21718	83613	98022	20663	85600	14312		05255	

CODED SHIP'S SURFACE OBSERVATIONS

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SHIP CrestMONTH AND YEAR August 1949OBSERVERS E. Regelson & J. Bartlett

Day of Month	YQLLL uaa	LLGG oo	Nddff	VVwww	PPPTT	NChCC L L M H	Dyapp ss	SNChh s s s	OTTTT a add	lddPH www
16	31312	21000	23613	99011	18666	22600	14830		05259	13643
16	31315	20606	13418	99011	18482	15600	14605		05158	
16	31319	19912	03218	98022	///61	65600	14///		052//	
16	31320	19418	73418	99022	18863	76500	14300		05158	13236
17	41324	18700	13422	99022	16063	15500	14915		05258	
17	41326	18206	23220	98021	15761	25400	00300		05458	13234

CODED SHIP'S SURFACE OBSERVATIONS

SHIP Crest

MONTH AND YEAR September 1949

OBSERVERS E. Regelson & J. Bartlett

Day of Month	YQLL aaa	LLGG ooo	Nddff	VVwwW	PPPTT	NCbCC L L M E	Dvapp SS	SNChh S SS	OTTT SSdd	lddPH WWW
4	11308	16812	83208	98022	08465	85400	44805		05360	
4	11294	16418	83210	98022	10669	86400	44110		00061	
5	21289	15924	23212	98012	07870	25400	44115		05164	
6	21280	15506	73211	98022	08768	75400	44305		00063	
5	21273	15612	23214	99011	08068	25400	54905		05363	
5	21269	16118	63420	99022	09570	65400	54310		05265	
6	31264	16800	63420	99022	08170	65400	54805		05165	
6	31259	17506	63520	99022	08770	65400	54105		05366	
6	31255	18112	43321	99021	07868	45400	54610		05664	
6	31250	18818	73623	99022	09871	75400	00105		05266	
7	41247	19300	73619	99022	07973	75400	00710		05366	
7	41242	19906	70216	99022	09672	75400	00315		05166	
7	41240	20612	70216	99022	09471	75500	74300		05265	
7	41247	21318	60321	99022	11872	65400	74315		05167	
8	51255	21900	53522	99022	10771	55400	74705		05166	
8	51259	22306	53518	99022	12868	55400	00015		05365	
8	51261	21412	23422	99021	11468	25400	00610		05365	
8	51266	21118	73624	99022	12869	15430	00108		05067	13634
9	61269	20500	83622	98022	10470	15420	00610		05168	13635
9	61273	19906	83622	96515	11570	80420	00315		05070	13637
9	61276	19112	80409	98022	11070	80420	00300		05069	10233
9	61283	18618	80410	94475	13471	80220	00410		05070	10232
10	71289	18200	70206	98022	11373	75500	00615		00369	
10	71288	18106	10213	98012	12671	15400	00305		05167	
10	71290	17412	23614	99021	12069	25400	14903		05366	13033
10	71293	16718	43512	99021	12572	45400	00300		00068	13633
11	11296	16100	63420	99031	09871	65400	00820		05167	13433
11	11304	16506	43420	99022	11068	45400	54010		05363	
11	11313	16912	62916	99022	11265	65400	00405		05361	
11	11310	17618	83216	99022	13866	85400	00315		05262	13234
12	21305	18300	63217	99022	13366	65400	54705		05362	13235
12	21301	19006	63216	99032	14665	65400	54410		05458	13235
12	21296	19912	73415	99022	15865	75400	54305		05358	
12	21293	20618	13219	99012	18067	15500	54315		05161	13235
13	31288	21300	33413	99021	17767	31500	00805		06162	13334
13	31285	21806	13413	99011	18766	15500	00305		05360	13434
13	31281	22512	13614	99021	18166	15500	54300		05360	13633
13	31284	23518	13115	99018	19569	11500	74410		00062	13433
14	41290	24300	73614	99022	17867	72500	74910		05260	13633
14	41296	24806	73612	99022	19567	75500	00315		05259	13633
14	41297	24212	83412	99022	18665	85500	24605		05257	13434
14	41302	23718	73616	99022	19168	75600	24305		00058	13634
15	51306	22600	63417	99032	16367	65600	24820		00061	13434
15	51309	21906	23417	99012	16964	25500	24305		05259	13431
15	51313	21112	63418	98205	15963	65400	24910		05361	13434
15	51318	20718	83418	95505	17064	85300	24105		05164	13435
16	61320	20000	73217	97105	14664	75300	24315		05164	13236
16	61322	19306	83214	97104	14862	85300	24115		05560	13234
16	61325	18512	63410	96105	14060	35200	24610		05460	13432
16	61327	17618	82506	98025	14866	85400	24105		05162	

CODED SHIP'S SURFACE OBSERVATIONS

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SHIP CrestMONTH AND YEAR July 1950OBSERVERS D. Bergen, & G. Walder

Day of Month	YQLLL aaa	LLGG ooo	Nddff	VVwwW	PPPTT	NGhCC HL MH	Dvapp ss	8NChh s s s	OTTTT ssdd	lddPH wwww
8	71357	21112	22705	98021	13254	24400	00302	82694	05452	12742
8	71357	21318	72709	97032	13262	7636/	00102	87094	05655	12742
9	11353	22100	72709	98022	13960	7546/	00300	87694	05154	12733
9	11346	21906	73405	98022	14960	7546/	14302	87694	05156	13233
9	11347	21112	63205	98021	14960	6544/	34302	87694	05156	13232
9	11341	21218	70902	98032	16663	7544/	00300	87694	00260	13222
10	21338	21900	43605	98021	16664	44445	54610	84594	00360	12732
10	21335	22606	73202	98021	18060	7444/	54310	87694	00259	12732
10	21331	23312	83209	97022	18660	843//	54300	88693	05159	12732
10	21325	24518	83209	97022	21361	843//	54300	88693	00059	12732
11	31323	25000	73609	98022	21762	714//	00300	87694	00154	12732
11	31318	25906	73609	98022	22462	744//	00102	87694	00151	12732
11	31313	25412	83609	97022	21760	844//	34610	88694	05157	13432
11	31306	24518	83609	97022	22462	844//	34102	88694	05160	13432
12	41305	23800	83609	98022	21764	854//	14300	88594	00161	13432
12	41309	23106	03618	98010	19662	009//	14600	80///	05159	13455
12	41314	22312	03618	98010	21762	00900	14606	80///	05157	13445
12	41317	21418	73618	98032	18063	744//	14606	87694	00158	13445
13	51320	20700	63618	98022	15263	644//	14622	86594	00257	13445
13	51324	20006	43624	98011	14662	444//	00610	84594	00157	13436
13	51326	19512	82724	97022	14260	844//	00202	88694	00057	12736
13	51329	18913	82709	97022	13563	844//	14602	82694	00060	12732
14	61332	18300	62309	97021	12271	644//	14606	80694	00365	12321
14	61337	18406	72302	97021	12570	744//	74602	87694	00166	12321
14	61337	18912	82705	97022	11264	844//	54610	88694	05462	12721
14	61333	19818	82709	97582	12260	841//	34602	88694	00158	12742
15	71329	20700	82709	97022	11561	843//	54606	88693	00058	12733
15	71324	21706	82709	97022	12961	843//	00606	88694	00057	12733
15	71320	22412	83409	97022	12961	843//	00600	88693	00059	13232
15	71326	22818	83409	97022	14261	843//	00600	88693	00057	13239
16	11329	22100	83409	97022	12964	843//	00602	88693	00356	13234

CODED SHIP'S SURFACE OBSERVATIONS

SHIP Crest

MONTH AND YEAR August 1950

OBSERVERS W.W. Boede, S. Hicks & R. Kartrude

Day of Month	YQLLL aaa	LLGG ooo	Nddff	VVwwW	PPPTT	NCGCC NL MH	Dyapp ss	SNChh s ss	OTTT ssdd	lddPH www
8	31330	17700	02915	98040	15168	00900	74/99		0//62	13122
8	31336	18806	03308	99000	16970	00900	74309		00455	13122
8	31342	19812	03210	99000	16661	00900	64802		00253	13122
8	31346	20818	73308	99030	18766	75500	74310		00746	13232
9	41355	21400	73412	99022	18160	75500	74010		00256	13132
9	41362	21906	03310	93001	18060	00900	74201		00554	13232
9	41366	22412	03308	99000	18758	00900	00303		00553	13232
9	41371	22918	83408	97032	19559	86300	00406		00256	13232
10	51376	23200	83211	98032	17558	86300	00710		05155	13232
10	51374	24006	03212	99000	18069	00900	54302		00354	13243
10	51371	24812	03110	99000	18162	00900	54200		00356	13243
10	51367	25718	83410	98032	20064	86500	54210		00457	13243
11	61364	26500	83408	99012	20566	85600	54603		00459	13432
11	61360	27206	83410	99022	22066	866//	54412		00260	13432
11	61356	27912	83208	98032	22267	864//	00201		00359	13432
11	61353	28618	73608	99012	23869	75700	00308		00563	13632
12	71347	28100	73506	99012	23070	78700	34702		00661	13633
12	71337	27206	03608	99002	23469	00900	34302		00459	13632
12	71338	26712	03608	99000	21367	00900	14810		00359	13632
12	71341	26318	53521	99012	22368	55500	14205		00359	13643
13	11345	25500	63616	99031	20667	65500	14809		00462	13043
13	11348	24706	63518	98032	20763	65500	14301		00258	13654
13	11350	24012	03525	98002	19062	00900	14708		00059	13654
13	11353	23218	83624	98021	19863	855//	14204		00160	13655
14	21358	22600	23323	98012	17462	25400	14824		00260	13536
14	21358	22006	83220	98404	16558	864//	34705		05848	13435
14	21355	21212	93203	94434	15658	9/0//	00705		00255	13434
14	21347	21018	83309	98014	16961	863//	34302		00256	13522
15	31341	21100	83208	98022	15462	864//	00700		00160	13322
15	31339	21706	03207	98011	15861	00900	54402		00159	13322
15	31335	22412	03208	99021	16261	00900	00302		05058	13223
15	31332	23018	83306	98022	17862	864//	54208		00058	13433
16	41328	23700	83208	98022	17665	864//	00601		00162	13432
16	41325	24406	83502	94515	18063	864//	00202		05161	13221
16	41320	25112	83404	94515	17664	864//	54202		05161	13221
16	41318	25718	83406	98626	19365	8636/	34310		05163	13221
17	51308	24500	70000	95425	17769	66130	34808		05062	13431
17	51306	23906	80000	95414	18864	861//	00205		00262	13431
17	51309	23112	83506	96434	18163	9/0//	34704		00262	13432
17	51314	22318	83407	96434	19066	864//	14205		00261	13242
18	61317	21600	83408	96434	16166	864//	14715		00261	13242
18	61321	20806	83010	97022	16163	965//	14300		05161	13243
18	61324	20112	63410	96022	14062	865//	14810		00059	13243
18	61327	19518	83016	96022	15162	865//	00205		00158	13242
19	71329	18300	83115	98022	11964	864//	14820		00059	13242
19	71332	18306	83014	96022	12064	864//	14201		05258	13242

CODED SHIP'S SURFACE OBSERVATIONS

SHIP Crest

MONTH AND YEAR September 1960

OBSERVERS Hicks, Kartrude and Thompson

Day of Month	YQLLL aaa	LLGG ooo	Nddff	VVwwW	PPPTT	NCChC nl mh	Dvapp ss	SNChh s ss	OTTT s sdd	lddPH www
6	41335	18506	82406	98032	13167	855//	74300		00161	1///1
6	41341	19512	92406	94471	12364	9/0//	74804		05061	10421
6	41354	19718	82610	97032	14360	853//	74310		00055	10342
7	51355	21300	82608	98032	12560	854//	74708		00153	10342
7	51361	22006	89008	96032	12661	854//	00200		00252	10342
7	51367	22812	82508	98032	11660	854//	54805		00255	10342
7	51354	23618	82308	98032	13363	855//	54208		00054	10343
8	61353	24000	82307	96032	12463	855//	54704		00155	12945
8	61348	24606	82406	98032	13162	855//	54204		00055	12945
8	61345	25512	82910	98032	13663	854//	54203		05255	13045
8	61342	26318	83209	98032	13065	855//	54703		00155	12945
9	71337	27000	83310	98032	17466	855//	54222		00160	12945
9	71334	27706	83310	98032	19666	856//	54201		06159	12945
9	71330	28512	83310	98012	19468	85600	54701		00055	12944
9	71327	29418	73210	98012	21670	75600	00311		00255	12944
10	11320	50300	73309	99022	21170	75600	00203		00060	13043
10	11319	50706	83411	99022	22069	854//	54305		05059	13443
10	11316	31512	83207	98032	21168	855//	00705		00060	1///1
10	11309	32518	53206	99012	22472	85534	00208		00261	13443
11	21307	32300	50611	99031	20474	11630	54820		00362	10231
11	21303	34306	40609	99011	21070	21630	54303		00161	10231
11	21298	35012	90810	87616	20066	9/0//	54705		05564	10231
11	21294	55718	60610	99151	21072	41630	54210		00064	10421
12	31283	36600	50709	99151	19573	55600	54808		00263	10421
12	31286	37306	70808	98032	20672	756//	00210		05062	10421
12	31279	36312	70809	99012	19570	756//	34705		00162	10421
12	31273	36318	70809	98032	21173	756//	34808		00267	10421
13	41265	35700	20808	99012	18875	20600	34310		00463	10332
13	41258	35106	10808	99000	20072	14600	34306		00063	10421
13	41251	34512	70809	98032	19171	75600	00804		00062	10421
13	41254	34018	20908	99022	20575	15670	14306		00359	10422
14	51257	33300	20915	99021	19176	21470	14707		00360	10933
14	51261	32506	80811	98031	21672	855//	00312		05756	10933
14	51264	31612	20310	98022	21072	25500	14703		00158	10833
14	51269	30718	70910	47022	23376	75500	14311		00653	10933
15	61274	30100	70608	98152	22174	75500	14306		00360	10733
15	61278	29306	50609	97251	22771	555//	14206		00060	10733
15	61282	28612	20610	98001	20467	255//	14814		05262	10933
15	61266	27612	23410	99011	21372	22500	14305		00263	10233
16	71238	27500	23409	99021	19074	21501	14812		00365	10033
16	71293	26306	13410	97001	18770	11500	14703		00265	10033
16	71296	25212	23309	98011	15539	21500	14816		00065	13533
16	71300	24518	83406	94611	15567	363//	00500		05264	13433
17	11304	24000	42910	99012	12971	12350	00813		00363	13032
17	11305	23306	42309	98021	13068	45300	00301		00063	13132
17	11312	22612	12908	98011	11668	15500	14707		00162	13132
17	11315	21818	11603	99020	13974	12520	14312		00662	13232
18	21318	21300	11403	99011	13371	12500	00803		00361	13232
18	21323	20406	11401	99020	15267	12500	14310		00159	13221
18	21326	19712	01401	98000	15851	00900	14203		00157	13221
18	21329	18918	12703	98030	18469	12520	00313		00560	12721
19	31332	18400	02710	99020	16766	00900	00809		00358	12721
19	31331	17306	02710	99000	18066	00900	34306		00160	12721

CODED SHIP'S SURFACE OBSERVATIONS

SHIP Horizon MONTH AND YEAR July 1960OBSERVERS J. Edinger, D. Johnson & L. Sherman

Day of Month	YQLLL aaa	LLGG ooo	Nddff	VVwwW	PPPTT	NChCC hL MH	Dvapp s s	8NChh s ss	OTTTT ssdd	lddPH www
28	61302	19216	73218	98022	17363	75200	53310	87606	0//61	
28	61299	19416	73315	98022	18365	75400	53310	87610	0//59	13031
29	71292	20100	83218	98022	17964	85400	53907	88615	00159	13321
29	71288	20403	83419	98022	18063	85400	53401	88613	0//58	13321
29	71285	20706	73418	98022	19264	75400	53311	87615	05259	13221
29	71277	21312	73417	98022	17665	75400	53808	87615	05359	13231
29	71273	21616	63419	98022	18866	65400	53312	86616	05160	13431
29	71278	21618	73418	98022	19566	75400	00310	87618	05160	13432
29	71273	21620	73418	98022	18370	75500	00912	87620	00360	13432
30	11273	21600	63424	98022	16567	65500	00817	86620	00161	13432
30	11275	21503	63318	98022	15966	65500	00806	85620	05160	13332
30	11274	21606	83416	98022	16965	85500	52310	88620	05160	13432
30	11268	22212	83311	98022	15866	85500	53808	88620	05260	13331
30	11264	22616	83219	98025	16968	85500	53308	88624	05260	13432
30	11260	22818	73317	98022	16870	75500	53901	87624	00061	13432
30	11256	23221	73315	98022	15473	75500	53114	87624	00362	13151
31	21252	23600	73320	98158	14677	72560	53808	87825	00671	13561
31	21249	23303	73412	98158	14570	62560	00501	86825	05262	13641
31	21249	23906	83311	98028	15769	88600	01312	88630	05459	13541
31	21243	24412	73605	98022	14359	45530	53805	84627	05160	13241
31	21238	24715	70405	98022	15767	75630	53314	87631	05361	13341
31	21234	24918	71203	98022	16873	75630	53311	87631	00260	13321
31	21231	25321	73307	98022	16274	75530	53806	87631	00061	13441

CODED SHIP'S SURFACE OBSERVATIONS

SHIP Horizon MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson, & L. Sherman

Day of Month	YQ LLL a aa	LLLGG ooo	Nddff	VVwwW	PPPTT	NChCC hL hH	Dvapp s s	8NChh s s	OTTTT s s d d	l d d P H w w w w
1	31229	25500	63604	98022	16174	18630	53811	86406	00062	13531
1	31225	25803	83607	98158	15876	75530	53307	87620	00259	13551
1	31221	26206	70505	98168	17070	75500	53312	87620	05464	10351
1	31213	26812	70705	98022	16771	38530	53907	87485	05465	14931
1	31210	27116	61308	98021	16673	55500	53409	86629	05265	10361
1	31203	27218	61012	98022	16974	58630	00703	85630	05167	11011
1	31208	27221	10309	98011	17075	18600	00101	81824	05165	11011
2	41208	27300	20406	98158	15874	28500	00612	82624	05367	10911
2	41208	27303	70512	98148	16674	72500	00308	87624	05266	10911
2	41208	27406	80713	98808	17874	83500	00112	88624	05165	10711
2	41200	27912	80714	98028	16674	85500	53605	88624	05164	10911
2	41195	28316	20418	98022	17475	28600	54105	82630	00065	10422
2	41194	28318	70516	98022	17677	75600	00302	87640	00266	10512
2	41194	28421	70314	98022	16776	78600	00909	87640	00166	10612
3	51195	28400	70718	98022	15879	78700	00809	87650	00465	10722
3	51195	28404	70518	98022	15575	78600	00303	87637	00066	10522
3	51193	28608	70618	98022	17175	78600	00415	87637	00064	10622
3	51193	28712	80619	98022	15974	88500	51506	88627	05366	10622
3	51189	29015	80620	98022	15874	88600	53300	88640	05168	10623
3	51186	29318	70621	98022	16377	78602	53305	87640	00167	10623
3	51182	29721	80822	98312	15576	88600	53908	88630	05270	10723
4	61178	29900	80519	98818	14176	88600	53814	88630	05371	10633
4	61175	30303	80518	97158	14577	58560	53304	85622	05273	10533
4	61172	30606	90519	97818	15175	90000	53106	89010	05475	10533
4	61165	31212	80625	97818	12076	88500	53818	88620	05475	10534
4	61161	31616	80534	97818	12779	63562	53307	85920	05176	10535
4	61158	31918	71120	97818	13180	78400	53304	87615	00076	
4	61154	32321	71410	98022	12781	72563	53804	87220	00075	11034
5	71151	32500	41810	98012	11681	19563	53811	81925	05174	11734
5	71147	32803	71710	98818	12779	68663	53411	85638	06273	11533
5	71145	33006	61906	98022	13879	68600	53311	85635	05273	11733
5	71144	33109	21707	98011	13779	22500	41101	82830	00276	11722
5	71144	33112	71902	98031	12878	78700	00509	87650	05373	10431
5	71144	33115	60000	98012	13879	29563	00310	82920	05273	10742
5	71144	33118	31903	98011	15184	19563	00313	81920	00275	10742
5	71144	33121	71102	98151	14782	73569	00804	87621	00174	10562
6	11144	33100	70410	98158	13681	33563	00811	85820	00074	10631
6	11144	33103	80514	96818	13977	83400	00103	88915	06574	10632
6	11144	33106	50304	98018	15178	53500	00312	85820	05374	10632
6	11139	33417	70518	98022	14079	11563	52313	82450	05268	10532
6	11139	33618	50617	98022	14481	11663	00312	81625	00070	10572
6	11138	33721	60617	98022	13580	68563	00001	86625	05171	10632
7	21137	33700	70515	98158	12182	72500	53624	87625	00172	10632
7	21135	33903	60616	98028	12679	52563	00305	85625	05169	10632
7	21135	34006	20815	98012	13680	24500	59110	82625	05171	10552
7	21128	34412	60614	98022	10279	11560	53810	83455	05271	10522
7	21127	34415	7////	98162	111//	78503	//309	81820		
7	211//	///16	9////	96812	117//	90000				

CODED SHIP'S SURFACE OBSERVATIONS

SHIP Horizon MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson & L. Sherman

Day of Month	YQLLL aaa	LLGG ooo	Nddff	VVwwW	PPPTT	NChCC hL MH	Dvapp ss	8NChh s ss	OTTTI ssdd	lddPH www
7	21128	34417	80421	98180	12179	33560	82312	87455	05274	10433
7	21128	34418	80625	98168	12578	88500	81314	88020	05375	10283
7	21128	34421	80823	98168	11781	73520	00808	87820	00074	10544
8	31128	34400	70423	98028	10582	78520	00812	85640	00171	10544
8	31127	34304	80421	98158	11479	78620	41309	87635	05273	10444
8	31124	34606	80315	98618	12777	80520	53313	88520	05474	10343
8	31116	35012	80617	98818	11079	42520	53613	84820	05274	10443
8	31111	35316	72906	98158	12376	68690	53404	86645	05567	10443
8	31109	35517	73407	98158	12478	58792	52216	85650	05270	10143
8	31108	35618	72603	98818	12878	68590	53210	86620	05272	10143
8	31106	35721	83304	98616	10776	12470	53321	87450	05673	13442
9	41106	35900	80907	98256	10277	62470	00805	86610	05473	13642
9	41104	35904	70309	98258	10983	78300	00305	86612	00277	149/2
9	41103	36006	82108	98018	11877	82400	53009	88610	05473	149/2
9	41101	36112	62210	98018	10178	64700	53820	86650	05369	149//
9	41097	36415	71910	98158	10679	21439	53405	82812	05373	11832
9	41097	36418	72112	98158	12480	52432	00318	85815	05173	11743
9	41097	36321	71912	98158	11781	68420	00907	86635	05174	11833
10	51096	36400	71916	98158	09480	48460	52823	86435	05274	11833
10	51095	36404	72012	98022	10078	63460	00306	84612	05474	11832
10	51094	36406	81409	97812	11879	83400	51318	84615	05273	11433
10	51088	36712	81616	98022	10080	88400	53618	85615	05274	11633
10	51085	36816	61819	98151	10079	53460	53200	84618	05274	11333
10	51083	36818	71820	98028	11681	42562	53316	82620	00073	11734
10	51080	37021	71618	98022	11081	78500	53908	87630	00071	11634
11	61077	37100	71917	98022	09380	78500	53617	87650	05170	11734
11	61073	37203	61516	98022	09979	68550	53405	85650	05270	11934
11	61069	37406	71616	98022	11878	78500	53320	86650	05369	11633
11	61064	37912	81721	98022	09478	85700	53818	88650	05268	11633
11	61061	38115	71620	98022	10478	78700	53410	87650	05169	11633
11	61058	38318	71719	98022	12078	78700	53316	87650	05269	11722
11	61056	38621	61622	98022	11879	61500	53902	86820	05268	11822
12	71053	38900	61522	98032	09778	21586	53821	82620	05266	11522
12	71049	39603	81424	98032	10078	51507	53403	85820	00060	11422
12	71047	39806	61421	98022	12277	41508	53322	84120	05269	11422
12	71046	40012	71318	98022	10377	51508	00809	85820	05369	11422
12	71046	40016	71320	98022	11277	21438	71109	82815	05369	11322
12	71047	40118	31418	98021	12780	11438	71414	81218	00072	11422
12	71047	40621	61422	98022	12481	31506	71803	83820	00070	11422
13	11050	40800	41522	98022	10082	11502	73814	81820	00171	11322
13	11052	41001	5////	98022	////	12558	73////	81825	*	
13	11052	41004	51418	98022	10979	22558	71308	82825	00069	11322
13	11052	41006	51418	98022	12578	22508	00317	82825	05170	11222
13	11057	41612	31317	98021	11278	24550	74813	82625	05267	11322
13	11059	41815	11221	98021	11079	12500	73602	81825	05170	11722

*Special Cloud OBSN: Advancing Line of Convergence

CODED SHIP'S SURFACE OBSERVATIONS

SHIP Horizon MONTH AND YEAR August 1950

OBSERVERS J. Edinger, D. Johnson & L. Sherman

Day of Month	YQLLL aaa	LLGG ooo	Nddff	VVwwW	PPPTT	NCdCC HL MH	Dvapp S S	8NCbh S SS	OTTTT H Sdd	lddPH www
13	11059	41816	31121	98021	11479	12508	71308	81825	00071	11722
13	11059	41818	61220	98032	12680	68500	00316	85640	00172	11432
13	11059	41821	21218	98012	12680	28500	00000	82825	00071	11422
14	21059	41800	11317	98021	10680	12500	00320	81825	00070	11432
14	21061	42104	21410	98021	11580	24530	73411	82625	05170	14911
14	21063	42306	11410	98020	12179	14500	73323	81625	05270	11431
14	21070	42812	81407	98032	10880	98500	73820	85650	05171	11431
14	21073	43015	71406	98152	10878	78400	73400	87625	05469	11132
14	21074	43116	7////	96812	////	73402	73///	87815	Special	
14	21077	43218	73407	98158	12577	68410	73317	84625	05471	11132
14	21077	43221	83306	98818	12476	88400	00901	86650	05672	14911
15	31080	43400	82707	98818	10177	88400	73723	86815	05472	149/1
15	31083	43703	92112	98626	09974	90000	73502	80000	05773	11042
15	31086	44006	31914	98016	11676	34600	73217	83630	05573	11041
15	31091	44412	72302	98606	09977	78600	7171E	87830	05373	10941
15	31092	44415	71403	98156	10079	78470	00308	87635	05177	11242
15	31094	44718	72406	98028	11179	48579	71111	84635	05273	10642
15	31097	45021	62112	98022	10880	13563	73903	85470	05173	10352
16	41100	45200	62509	98022	09582	41560	72613	84825	00073	10711
16	41100	45203	51207	98152	10182	53563	00406	85825	00173	10742
16	41100	45206	12009	98018	11982	13500	00318	81820	00272	14911
16	41104	45612	11906	98021	10779	11500	73818	81820	05273	14911
16	41107	45715	11408	98020	10879	13560	73401	81820	05273	10432
16	41107	45918	61803	98158	12880	13563	00320	81820	05173	10241
16	41107	45921	70803	97818	13378	63560	51104	86820	05275	10231
17	51107	45900	72304	97158	10882	23563	00725	86820	00273	10342
17	51107	45903	73403	97818	11478	79463	11406	87915	05374	10432
17	51107	45906	21807	97018	12879	19563	21314	81920	05273	14932
17	51112	46412	70804	98038	12478	74500	74815	87820	05473	14932
17	51117	47016	71309	98158	13579	54760	74311	85650	05173	10431
17	51118	47218	71403	98158	14179	28461	74306	85483	05273	10431
17	51122	47621	51402	98158	14081	29463	74901	82965	05174	10431
18	61126	48000	71009	98152	12681	78563	74518	85650	00075	10531
18	61129	48403	71208	98158	12480	78560	74702	87650	05174	10431
18	61132	48806	40619	98018	13879	23563	74214	82820	00075	149/2
18	61137	49212	50615	98161	12878	13403	00811	81818	05174	10422
18	61139	49315	50618	98018	12478	21535	00604	82820	05174	10222
18	61140	49318	70717	98028	13779	21530	00313	86483	00074	10632
18	61141	49421	70616	98258	13380	72503	00904	37820	00074	10722
19	71141	49500	70713	98808	11979	72563	72814	87820	05175	10812
19	71143	49703	90713	97808	11979	88400	73200	87665	00075	10812
19	71144	50206	70616	98028	13078	24705	74411	82650	00074	10812
19	71146	51212	70617	98808	12279	74500	74817	87620	00075	10812
19	71143	51817	70718	98258	13177	13420	71106	87565	05274	10612
19	71148	51818	70718	98158	13179	23463	00408	82815	05176	10612
19	71148	51821	70618	98158	12980	23563	00902	37484	00075	10712

CODED SHIP'S SURFACE OBSERVATIONS

SHIP	Horizon		MONTH AND YEAR							
			August 1950							
OBSERVERS			J. Edinger, D. Johnson & L. Sherman							
Day of Month	YQLLL aaa	LLGG ooo	Nddff	VVwww	PPPTT	NChCC nl MH	Dvapp ss	8NChh s ss	OTTTT ssdd	lddPH www
20	11147	51900	70717	97028	11481	22463	00815	87484	00275	10722
20	11146	52003	70820	97152	11580	32460	00401	87475	00074	10823
20	11146	52006	70919	98028	12679	14660	00311	87475	05174	10622
20	11152	52312	20823	98018	11779	21500	74713	82820	00073	10823
20	11157	52615	70920	98031	12678	71500	74409	87820	05175	10633
20	11162	52818	20520	98158	14179	28500	74315	82640	05175	10633
20	11166	53121	70821	98808	14778	72500	74005	87820	05174	10633
21	21171	53300	70821	98028	13780	22531	74910	85484	00174	10834
21	21178	53703	40918	98022	13780	22501	74400	82820	00173	10923
21	21181	53906	10919	98012	15778	12500	74320	81820	05171	10923
21	21190	54412	70913	98022	16080	54501	74908	85620	00171	149//
21	21195	54715	60807	98152	16477	62500	74404	86820	05271	10621
21	21198	55018	62209	98028	17573	62500	72311	86825	00072	11331
21	21199	55021	11410	98012	17582	11501	71000	81820	00571	10831
22	31201	55303	11116	98021	14878	18500	00607	81820	05172	11111
22	31202	54710	11310	98021	17577	11500	00004	81820	05270	14911
22	31205	54815	11409	98021	16176	12560	81504	81820	05269	14911
22	31204	54921	31209	98021	17581	22560	00003	82826	05371	11211
23	41203	56110	10616	98158	16778	13500	53903	81920	05271	14911

4. RADIOSONDE OBSERVATIONS

The radiosonde observations are presented below, in the order of ship and cruise, with the significant levels tabulated as follows:

Altitude:	entered in meters (0.98 geodynamic meters)
Pressure:	entered in millibars
Temperature and Dew Point:	in degrees centigrade
Relative Humidity:	in percent
Clouds:	amount in tenths, type according to International Classification (see pages 23 to 25 for table). Direction to eight points of compass.

Ship Crest Asc.No. I-1
 Lat. 32.4°N Long. 118.4°W
 Rise. Time 1420, 1 July 1949 GCT
Surface Observation at Release
 Wind WNW 12 knots
 Weather Overcast
 Clouds 10L5/290°

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1018	14.6	87	12.6
460	964	10.5	98	10.2
540	956	19.9	38	5.2
580	951	21.1	18	-4.0
880	920	22.3	MB	MB
1370	867	20.7	MB	
1830	823	19.9	MB	MB
2840	730	14.3	19	8.9
3030	713	12.7	21	-9.0
3280	692	10.6	54	1.8
3580	667	7.9	61	0.8
3770	652	7.0	67	1.3
4070	629	5.2	25	-13.2
4800	574	-0.8	63	-6.9
5220	546	-1.4	28	-17.4
5470	529	-1.5	25	-18.9
7612	400	-20.2	MB	MB
8290	354	-26.0	MB	MB
9000	330	-31.1	MB	MB
9100	326	-29.7	MB	MB
10100	283	-35.2	MB	
10650	261	-40.1	MB	MB
12160	189	-55.1		
13950	156	-61.6		
14720	138	-62.8		
15334	125	-66.2		
16000	112	-63.9		
16695	100	-65.0		

Ship Crest Asc.No. I-2
 Lat. 32.0°N Long. 120.0°W
 Rise. Time 0205, 2 July 1949 GCT
Surface Observation at Release
 Wind WNW 15 knots
 Weather Overcast
 Clouds 9+L5/310°

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1018	15.2	88	13.2
490	962	10.8	97	10.3
530	958	12.5	72	12.4
610	926	19.5	23	-2.1
1550	850	20.1	MB	MB
1920	812	18.5	MB	MB
2170	790	18.0	MB	MB
2950	720	12.4	24	-7.5
3070	708	11.4	34	-7.9
3410	680	8.1	65	2.0
3800	650	6.5	26	-11.6
3890	642	5.5	48	-4.6
4180	620	3.8	41	-8.1
4540	592	0.9	53	-7.5
4670	570	-1.7	39	-13.8
5080	564	-3.5	58	-10.5
5770	506	-7.6	64	-13.2
5890	498	-8.9	44	-18.9
6020	492	-8.0	34	-21.1
6300	474	-8.3	MB	MB
7586	400	-19.5	MB	MB
8400	358	-28.2	MB	MB
8530	350	-26.7	MB	MB
10080	284	-38.3	MB	MB
12034	210	-54.2		

Ship Crest Ass.No. I-3
 Lat. 31.2°N Long. 121.3°W
 Rise. Time 1800, 2 July 1949 GCT
Surface Observation at Release
 Wind WNW 15 knots
 Weather Overcast
 Clouds 1CL6/u

Ship Crest Ass.No. I-4
 Lat. 30.6°N Long. 122.6°W
 Rise. Time 0404, 3 July 1949 GCT
Surface Observation at Release
 Wind NNW 16 knots
 Weather Overcast
 Clouds 1CL6/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1019	15.6	84	12.9
300	985	11.3	89	9.6
610	949	9.4	96	8.8
730	937	19.2	48	8.0
880	919	20.5	17	-5.3
1150	890	19.2	MB	MB
1550	869	20.3	MB	MB
2540	756	16.4	18	-7.9
2730	740	14.7	33	-1.3
2980	717	12.2	34	-3.2
3360	686	9.0	56	0.8
3430	680	9.0	61	1.9
3940	639	6.9	42	-5.9
4130	624	4.5	48	-5.5
4700	582	0.6	41	-11.1
5000	561	-2.4	49	-11.6
5320	539	-4.6	35	-17.6
5470	528	-3.3	26	-19.9
5740	510	-3.8	MB	MB
6140	485	-7.0	MB	MB
6690	452	-11.7	MB	MB
7605	400	-19.8	MB	MB
7690	395	-18.6	MB	MB
11000	249	-41.3		
11460	232	-45.5		
12890	186	-53.6		
13296	175	-54.3		
14396	147	-60.8		

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1018	15.6	89	13.3
600	948	9.0	99	8.8
670	940	18.6	21	-4.1
850	920	19.0	MB	MB
1140	888	18.2	MB	MB
1490	853	10.2	MB	MB
2830	729	12.2	MB	MB
3150	701	11.3	MB	MB
3320	688	10.5	MB	MB
3680	657	6.7	MB	MB
3860	643	6.7	MB	MB
4390	603	2.7	MB	MB
4980	561	0.6	MB	MB
5930	498	-3.7	MB	MB
6430	467	-12.4	MB	MB
6600	456	-12.4	MB	MB
7230	420	-16.6	MB	MB
7400	410	-17.2	MB	MB
7576	400	-18.7	MB	MB
8900	333	-28.1	MB	MB
10730	256	-43.1		
10970	247	-43.3		
12407	199	-52.3		

Ship Crest Asc.No. I-5
Lat. 30.2°N Long. 123.6°W
Rise Time 1431, 3 July 1949 GCT
Surface Observation at Release
 Wind NW 16 knots
 Weather Overcast
 Clouds 10L6/u

Ship Crest Asc.No. I-6
Lat. 29.5°N Long. 124.9°W
Rise Time 0357, 4 July 1949 GCT
Surface Observation at Release
 Wind N 20 knots
 Weather Intermittent light rain
 Clouds 10L5/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1020	15.8	82	12.7
560	954	10.9	96	10.3
960	908	8.3	100	8.3
1120	893	11.7	22	-9.2
1270	876	14.1	MB	MB
1510	852	17.2	MB	MB
1830	819	17.0	MB	MB
2950	718	13.2	22	-8.0
3880	641	4.6	39	-8.1
4020	632	5.8	25	-12.6
4690	580	2.4	MB	MB
5300	538	-2.7	MB	MB
5630	516	-2.9	MB	MB
7000	433	-13.4	MB	MB
7598	400	-17.8	MB	MB
7990	379	-21.0	MB	MB
8700	344	-25.5	MB	MB
9680	300	-33.6	MB	MB
9990	287	-36.2	MB	MB
10320	273	-36.2	MB	MB
11820	219	-46.8		
13240	176	-55.6		
14900	134	-64.1		
15550	121	-65.2		
19290	67	-59.3		
22530	40	-45.9		

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1019	17.3	79	13.7
1090	893	7.5	100	7.6
1280	874	13.9	23	-6.7
1430	860	17.0	MB	MB
2038	800	15.1	MB	MB
2210	784	15.1	MB	MB
2730	736	12.7	MB	MB
4030	629	5.1	MP	MB
4130	621	5.4	MB	MB
4540	590	-12.9	MB	MB
6750	446	-13.3	MB	MB
7570	400	-19.0	MB	MB
8560	347	-27.0	MB	MP
9450	308	-32.2	MB	MP
10170	277	-37.3	MB	MB
13480	164	-62.8		
13690	159	-63.7		
14798	133	-65.6		

Ship Crest Asc.No. I-7
 Lat. 28.2°N Long. 123.4°W
 Rise Time 1433, 4 July 1949 GCT
 Surface Observation at Release
 Wind N 12 knots
 Weather Overcast
 Clouds 1CL5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1018	17.5	77	13.2
380	939	10.5	93	9.4*
1038	900	8.5	100	8.5
1080	894	6.7	100	6.7
1240	878	11.7	20	-10.5
1360	366	14.6	MB	MB
1790	822	16.5	MB	MB
2280	776	15.1	MB	MB
3530	669	8.5	MB	MB
3960	634	5.0	MB	MB
4400	601	3.4	MB	MB
5380	531	-3.7	MB	MB
5690	511	-6.3	MB	MB
7020	430	-14.7	MB	MB
7562	400	-18.9	MB	MB
8370	358	-24.6	MB	MB
8580	348	-25.3	MB	MB
8780	338	-27.1	MB	MB
9040	316	-29.6	MB	MB
9500	305	-28.6	MB	MB
13450	170	-60.9		
14180	151	-64.0		
16100	110	-70.1		
16660	100	-68.1		

*Base of clouds

Ship Crest Asc.No. I-8
 Lat. 28.2°N Long. 123.2°W
 Rise Time 0230, 5 July 1949 GCT
 Surface Observation at Release
 Wind N 12 knots
 Weather Overcast
 Clouds 9+L5/315°

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1017	17.1	77	13.0
570	951	11.5	89	9.8*
870	916	9.3	100	9.3
920	912	6.7	100	6.7
960	906	10.4	58	2.6
1240	877	17.1	21	-5.4
1380	862	18.3	MB	MB
1590	841	17.6	MB	MB
2570	749	14.2	MB	MB
2890	721	12.1	MB	MB
3250	691	11.5	MB	MB
3630	661	10.0	MB	MB
4240	613	5.6	MB	MB
4640	583	1.7	MB	MB
5190	545	-1.6	MB	MB
7574	400	-19.4	MB	MB
8170	369	-23.6	MB	MB
8790	338	-27.7	MB	MB
10900	250	-43.0		
11600	225	-49.9		
12580	193	-55.4		
13050	179	-55.5		
14773	136	-65.8		

*Base of clouds

Ship Crest Asc.No. I-9
 Lat. 29.0°N Long. 121.0°W
 Rise Time 1508, 5 July 1949 GUT
 Surface Observation at Release
 Wind NNW 20 knots
 Weather Overcast
 Clouds 9+L5/315°

Ship Crest Asc.No. I-10
 Lat. 29.7°N Long. 119.8°W
 Rise Time 0231, 5 July 1949
 Surface Observation at Release
 Wind NNW 18 knots
 Weather Overcast
 Clouds 9+L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1017	16.7	81	13.8
470	961	11.1	95	10.4*
720	934	10.2	96	9.6
770	927	8.9	97	8.6
1130	889	15.3	34	-0.4
1280	872	17.4	23	-4.5
1590	841	15.6	MB	MB
1800	820	16.8	MB	MB
4330	606	4.4	MB	MB
4930	562	-0.4	MB	MB
5200	543	-1.1	MB	MB
7030	429	-15.5	MB	MB
7560	400	-18.0	MB	MB
7870	385	-19.3	MB	MB
9190	320	-30.1	MB	MB
10070	282	-39.0	MB	MB
10790	254	-42.3		

*Base of clouds

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1015	16.4	83	13.5
540	952	11.1	89	9.4
660	940	10.4	90	8.8
730	932	10.2	91	8.6
790	924	17.9	37	3.0
930	910	19.0	18	-5.8
1050	896	19.3	MB	MB
1990	802	15.4	MB	MB
2330	772	13.4	MB	MB
2590	747	13.2	MB	MB
3650	658	9.4	MB	MB
4680	580	1.8	MB	MB
5440	528	-2.5	MB	MB
5830	503	-5.6	MB	MB
7578	400	-17.6	MB	MB
8840	337	-28.7	MB	MB
9510	306	-35.3	MB	MB
10050	284	-36.8	MB	MB
10901	250	-41.5		
11657	223	-49.3		

Ship Crest Asoc.No. I-11
 Lat. 30.4°N Long. 118.6°W
 Rise Time 1452, 6 July 1949 GCT
Surface Observation at Release
 Wind E 14 knots
 Weather Overcast
 Clouds 9uL5/045°

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1016	15.6	86	13.2
770	927	8.9	100	8.9
830	920	8.4	97	8.0
930	908	15.4	20	-7.4
1100	892	18.4	MB	MB
1280	873	18.6	MB	MB
1840	816	16.0	MB	MB
2440	762	14.7	MB	MB
3500	670	10.0	MB	MB
5160	546	0.5	MB	MB
6700	450	-9.9	MB	MB
7580	400	-17.8	MB	MB
8700	345	-28.0	MB	MB
10300	276	-38.4	MB	MB
12300	200	-54.3		
13410	169	-57.4		
14030	156	-56.9		
14680	140	-61.6		
16700	100	-67.3		
17500	88	-65.4		
17800	84	-62.5		
18650	73	-62.5		
19860	60	-55.2		

Ship Crest Asoc.No. I-12
 Lat. 31.1°N Long. 117.4°W
 Rise Time 0246, 7 July 1949 GCT
Surface Observation at Release
 Wind NW 12 knots
 Weather Broken clouds
 Clouds 9L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1016	15.7	84	12.9
320	973	11.4	92	10.1*
520	956	10.2	97	9.7
580	950	8.8	87	6.8
670	942	17.9	18	-6.7
900	914	20.4	MF	MF
1580	844	18.7	ME	ME
3510	670	8.1	MB	ML
5200	544	-3.6	MB	MB
5590	518	-5.1	MB	MB
7556	400	-20.7	MP	MP
9520	300	-37.7	ME	ME
10470	264	-45.0		
11530	226	-51.1		
12810	184	-59.1		
13695	160	-61.2		

Ship Crest Asc.No. I-13
Lat. 30.3°N Long. 116.4°W
Rise Time 1440, 7 July 1949 GCT
Surface Observation at Release
 Wind NW 15 knots
 Weather Broken clouds
 Clouds 9L5/270°

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1015	16.2	83	13.3
540	953	10.5	96	9.8*
570	949	9.6	96	9.0
610	945	9.9	96	9.3
650	940	15.6	43	3.2**
730	932	19.7	19	-4.6
1100	892	20.7	MB	MB
2830	728	13.6	MB	MB
3530	668	8.3	MB	MB
3770	649	7.9	MB	MB
4000	631	7.2	MB	MB
4350	604	5.3	MB	MB
4880	566	1.0	MB	MB
5380	532	-1.8	MB	MB
6360	470	-8.1	MB	MB
7587	400	-17.6	MB	MB
9450	310	-33.6	MB	MB
9700	299	-34.7	MB	MB
9950	289	-37.3	MB	MB
11190	240	-44.1		
11650	210	-50.8		
13050	180	-57.3		
13520	167	-57.8		
14120	151	-62.3		
15650	118	-68.0		
17100	92	-65.7		
18614	70	-60.8		

* Base of clouds

**RH doubtful

Ship Crest Asc.No. I-14
Lat. 29.0°N Long. 116.8
Rise Time 0320, 8 July 1949 GCT
Surface Observation at Release
 Wind NW 13 knots
 Weather Broken clouds
 Clouds 6L5/270°

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1014	16.7	84	14.0
310	979	14.4	92	12.9
450	963	13.7	97	13.2
580	950	21.7	21	-1.5
690	938	21.7	MB	MB
1040	898	19.9	MB	MB
1160	886	20.7	MB	MB
1330	864	19.6	MB	MB
1680	834	19.6	MB	MB
2490	760	15.0	MB	MB
2600	750	15.0	MB	MB
3600	665	11.0	MB	MB
4436	600	6.5	MB	MB
4860	570	3.0	MB	MB
5600	520	-0.6	MB	MB
6550	460	-8.6	MB	MB
7624	400	-17.1	MB	MB
9300	318	-31.2	MB	MB
9720	300	-32.7	MB	MB
12520	196	-56.0		
14207	150	-67.1		
15439	122	-71.0		

Ship Crest Aso.No. I-15
Lat. 26.4°N Long. 118.0°W
Rise Time 1431, 8 July 1949 GCT
Surface Observation at Release
 Wind NE 6 knots
 Weather Overcast
 Clouds 9+L5/270°

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1016	16.0	86	13.5
530	954	11.1	97	10.6*
600	940	10.7	97	10.2
650	940	9.7	98	9.4
750	930	16.1	28	2.3
850	919	19.3	23	-2.3
1000	903	19.5	MB	MB
1370	864	19.3	MB	MB
2370	769	16.5	MB	MB
2570	751	16.3	MB	MB
2800	731	14.6	MB	MB
3370	683	12.8	MB	MB
3660	659	11.1	MB	MB
4230	614	5.9	MB	MB
5100	553	2.0	MB	MB
5980	494	-4.1	MB	MB
6370	471	-7.4	MB	MB
7190	423	-13.0	MB	MB
7622	400	-15.9	MB	MB
8500	355	-22.2	MB	MB
8980	333	-25.3	MB	MB
9200	323	-25.5	MB	MB
10910	252	-40.3		
12170	209	-47.5		
12550	197	-51.2		
14050	156	-62.0		
14750	139	-65.6		
16680	102	-72.2		
17629	86	-67.4		

Ship Crest Aso.No. I-16 160
Lat. 27.5°N Long. 119.5°W
Rise Time 0315, 9 July 1949 GCT
Surface Observation at Release
 Wind NNW 14 knots
 Weather Overcast
 Clouds 9+L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1016	17.3	82	14.1
100	1004	15.3	82	12.3
620	944	10.6	96	10.0
750	929	19.2	21	-3.6
1150	886	21.4	MB	MB
1480	853	21.6	MB	MB
1900	812	19.0	MB	MB
2140	790	19.0	MB	MB
2730	733	14.5	MB	MB
3410	681	10.6	MB	MB
3870	643	8.5	MB	MB
4270	612	5.4	MB	MB
4500	596	5.8	MB	MB
5360	536	0.4	MB	MB
6900	440	-11.5	MB	MB
7629	400	-14.3	MB	MB
7970	381	-16.5	MB	MB
12650	296	-32.6	MB	MB
10750	258	-41.7		
9800	194	-55.8		

Ship Crest Asoc.No. I-17
 Lat. 26.7°N Long. 120.8°W
 Rise Time 1455, 9 July 1949 GCT
Surface Observation at Release
 Wind NNW 11 knots
 Weather Broken clouds
 Clouds 9L6/315°

Ship Crest Asoc.No. I-18
 Lat. 26.1°N Long. 122.1°W
 Rise Time 0232, 10 July 1949 GCT
Surface Observation at Release
 Wind N 10 knots
 Weather Overcast
 Clouds 10L6/u

10L

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1017	17.7	78	13.8
640	941	11.5	86	9.2
850	918	9.8	96	9.2
870	916	9.4	69	4.0
999	903	18.7	23	-2.8
1080	893	20.8	MB	MB
1650	836	21.5	MB	MB
2760	735	15.0	MB	MB
3770	652	6.6	MB	MB
3840	646	7.2	MB	MB
4020	632	7.2	MB	MB
4930	565	3.7	MB	MB
6140	485	-5.4	MB	MB
6520	463	-7.4	MB	MB
7280	419	-12.5	MB	MB
7540	405	-12.5	MB	MB
7635	400	-13.3	MB	MB
12000	21.6	-47.2		
14500	146	-63.6		
16250	109	-71.9		
17140	94	-73.6		
17390	90	-69.9		
19439	64	-64.0		

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1017	18.7	74	14.0
450	964	15.2	83	12.3
880	915	12.0	99	11.9*
930	911	10.8	100	10.8*
1040	899	22.0	17	-4.1
1370	866	23.7	MB	MB
1530	850	23.3	MB	MB
2950	721	14.8	MB	MB
3130	706	12.8	MB	MB
3820	642	7.1	MB	MB
4050	631	7.7	MB	MB
4540	594	5.7	MB	MB
4980	563	2.5	MB	MB
5120	554	2.3	MB	MB
5760	510	-3.2	MB	MB
6430	469	-7.1	MB	MB
6750	450	-8.2	MB	MB
7230	423	-11.0	MB	MB
7653	400	-14.2	MB	MB
8070	378	-17.5	MB	MB
8540	355	-20.7	MB	MB
10220	201	-35.4	MB	MB
10500	270	-37.2	MB	MB
12780	191	-54.7		
14570	143	-67.4		
14855	137	-68.2		

*Base of clouds

**RH doubtful

Ship Crest Ass.No. I-19
Lat. 24.6°N Long. 121.3°W
Rise Time 1447, 10 July 1949 GCT
Surface Observation at Release

Wind NNE 15 knots
 Weather Broken clouds
 Clouds 8L5/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1018	18.8	80	15.3*
620	947	12.6	93	11.5*
680	940	12.0	98	11.7
870	920	20.5	74	15.7
1320	874	21.1	50	10.2
1840	820	19.0	47	7.4
3350	687	10.0	55	1.5
3530	672	8.5	43	-3.4
3590	667	9.1	33	-6.3
4530	594	0.5	50	-8.8
4770	577	1.7	30	-14.2
5500	526	-2.5	MB	MB
6130	487	-7.4	MB	MB
6500	464	-9.3	MB	MB
7626	400	-16.5	MB	MB
8610	350	-22.7	MB	MB
10280	277	-38.2	MB	MB
12090	212	-51.8		
14180	152	-66.2		
15880	114	-74.0		
17400	88	-66.5		
17966	80	-66.5		

*Base of clouds

Ship Crest Ass.No. I-19A
Lat. 23.8°N Long. 120.5°W
Rise Time 2015, 10 July 1949 GCT
Surface Observation at Release

Wind NE 10 knots
 Weather Broken clouds
 Clouds 9L5/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1018	20.6	76	16.3
100	1006	16.6	77	12.6
670	941	12.2	96	11.6*
700	937	12.0	97	11.5
830	912	19.8	82	16.7
1010	904	21.2	73	16.2
1170	887	20.3	63	13.1
1250	879	21.0	58	12.5
1380	866	21.0	56	12.0
1840	822	19.2	50	8.6
2180	791	16.8	50	6.4
2470	762	15.8	23	-4.3
2920	723	13.1	MB	MB
3070	710	13.5	MB	MB
3470	675	10.4	25	-8.7
3840	646	7.1	56	-1.0
4580	590	1.8	48	-8.0
4730	580	1.9	49	-7.6
5060	556	-1.3	58	-8.9
6450	529	-2.0	30	-17.1
5570	521	-3.5	MB	MB
6170	483	-5.4	MB	MB
7640	400	-15.0	MB	MB
1170	225	-44.8		
13270	177	-55.0		
15500	124	-68.3		
17080	95	-70.4		
19296	66	-60.5		

*Base of clouds

Ship Crest Ass.No. I-20
 Lat. 24.2°N Long. 119.9°W
 Rise Time 0240, 11 July 1949 GCT
Surface Observation at Release
 Wind N 15 knots
 Weather Overcast
 Clouds 9+L6/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1016	19.4	79	15.7
500	957	13.5	85	11.1*
580	946	12.5	87	10.4
780	925	22.0	12	-8.6
920	911	23.0	38	-3.6
1230	877	22.7	MB	MB
2170	789	17.6	13	-11.1
2540	746	14.4	43	2.1
2900	724	12.7	44	0.9
3360	685	10.4	38	-5.6
3670	658	7.9	43	-3.8
3980	634	6.2	34	-8.4
4230	616	3.7	49	-6.0
4500	596	1.7	56	-6.1
4860	570	-1.0	55	-8.8
5050	557	-0.9	23	-19.3
5800	506	-4.5	22	-23.0
6630	456	-12.4	40	-23.2
6950	436	-12.7	26	-28.1
7604	400	-16.1	MB	MB
8740	342	-25.2	MB	MB
9050	327	-28.6	MB	MB
9350	314	-30.5	MB	MB
10670	260	-45.1		
13830	159	-63.4		
15283	126	-71.2		

*Base of clouds

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Ship Crest Ass.No. I-21
 Lat. 25.0°N Long. 118.8°W
 Rise Time 1437, 11 July 1949 GCT
Surface Observation at Release
 Wind NNE 9 knots
 Weather Broken clouds
 Clouds 9L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1016	17.7	82	14.6
550	952	11.6	91	10.2*
770	928	11.3	95	10.5
830	922	9.5	97	9.0
900	914	20.4	17	-5.4
940	909	22.0	MB	MB
1830	821	19.9	18	-5.0
2030	801	17.4	38	3.0
2100	794	18.5	18	-0.2
3040	710	13.0	MB	MB
3840	646	7.1	20	-14.2
4436	600	2.8	28	-13.8
4750	576	0.2	38	-12.5
4870	568	0.8	25	-16.9
5360	534	-1.3	28	-17.4
5650	515	-3.6	38	-15.8
6270	476	-8.5	43	-18.8
6640	454	-9.5	30	-23.8
7080	428	-13.4	33	-26.2
7320	416	-13.1	32	-26.3
7606	400	-14.1	32	-27.2
8150	372	-18.7	39	-29.2
9180	325	-24.8	39	-34.6
10270	278	-33.8	MB	MB
11670	226	-44.7		
14470	146	-61.8		
15270	128	-66.7		
16960	96	-70.8		
17790	84	-68.1		
19410	64	-66.5		
22987	36	-57.8		

*Base of clouds

Ship Crest Asc.No. I-22
Lat. 26.2°N Long. 117.6°W
Rise Time 0233, 12 July 1949
Surface Observation at Release
 Wind NNE 10 knots
 Weather Scattered clouds
 Clouds 3L4/350°; 2M3/u

104
Ship Crest Asc.No. I-23
Lat. 26.9°N Long. 116.2°W
Rise Time 1432, 12 July 1949
Surface Observation at Release
 Wind NNE 16 knots
 Weather Scattered clouds
 Clouds 4L5/045°; 1H8/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1016	18.4	89	16.6
500	956	13.4	93	12.3
640	848	23.8	19	-1.0
840	918	24.8	19	-0.2
1070	895	22.4	37	7.1
1270	874	22.4	36	6.7
1720	831	19.4	57	10.8
1840	819	18.0	69	12.3
2710	740	12.0	73	7.3
3200	698	10.2	49	0.0
3330	687	10.0	23	-10.1
3660	659	7.1	22	-13.1
4160	623	4.6	MB	MB
4650	583	0.8	MB	MB
5110	551	-0.5	26	-17.7
5580	519	-3.8	69	-8.7
6370	470	-9.7	86	-11.6
7030	432	-14.3	78	-17.3
7470	407	-15.8	49	-24.1
7602	400	-16.7	44	-26.0
8550	351	-23.8	39	-33.9
8980	330	-27.8	MB	MB
10240	276	-38.6	MB	MB
10440	269	-38.8	MB	MB
12100	209	-52.5		
14000	156	-64.7		

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1015	19.2	90	17.6
210	990	16.0	96	15.2
280	982	15.5	96	14.8
430	967	20.5	27	1.0
620	946	23.0	55	13.6
830	924	23.3	52	13.0
950	910	22.8	46	10.7
1330	871	20.5	59	12.3
1630	842	19.2	51	8.9
1880	817	16.6	72	11.6
3270	693	9.5	67	3.6
4220	617	3.3	23	-15.8
4930	564	-0.6	25	-18.2
5200	545	-2.1	67	-7.4
5630	516	-4.2	75	-7.9
5980	493	-5.7	60	-12.2
6250	477	-7.6	45	-17.4
6960	436	-11.0	42	-21.3
7613	400	-15.2	44	-24.7
8310	364	-20.0	46	-28.7
8800	340	-22.9	37	-33.6
9670	302	-29.3	MB	MB
13020	183	-53.7		
14900	136	-64.7		
16030	113	-69.4		
16690	101	-70.4		
18300	77	-69.6		
20360	55	-63.8		

Ship Crest Asc.No. I-24
Lat. 27.6°N Long. 115.0°W
Rise Time 0155, 13 July 1949 GCT
Surface Observation at Release
 Wind NNW 11 knots
 Weather Clear
 Clouds

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1014	18.3	88	16.4
30	1010	17.1	77	13.0
120	1001	19.6	22	-2.7
380	973	26.2	22	3.0
900	916	23.1	44	10.3
1100	896	22.3	27	2.4
1360	868	20.9	51	10.4
1690	836	19.5	45	7.2
1880	817	18.0	61	10.4
2380	772	15.0	56	6.3
3260	693	8.9	72	4.1
4200	618	3.6	52	-5.4
4540	592	1.5	50	-7.8
4720	578	0.8	45	-9.8
6050	490	-6.1	32	-20.2
7100	428	-12.5	MB	MB
7610	400	-16.3	MB	MB
9400	313	-29.6		
12900	186	-59.0		
13690	163	-64.6		
14910	133	-71.1		

Ship Crest Asc.No. I-25
Lat. 27.7°N Long. 114.9°W
Rise Time 1515, 13 July 1949 GCT
Surface Observation at Release
 Wind NNW 15 knots
 Weather Scattered clouds
 Clouds 1M4/u; 2H2/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1015	20.0	83	17.1
40	1010	18.4	78	14.5
130	1000	20.4	75	15.9
600	947	25.0	16	-2.5
1060	898	23.0	34	6.4
1280	864	22.5	16	-4.5
1720	833	18.9	54	9.5
1970	808	17.9	50	7.3
2760	737	12.8	56	4.2
3200	698	10.6	35	-4.2
3360	684	9.4	55	0.9
3650	662	7.5	57	-0.4
4160	622	5.0	47	-5.3
5360	536	-1.9	29	-17.6
5790	508	-5.6	31	-20.0
6580	459	-9.8	28	24.9
7620	400	-16.5	MB	MB
8800	341	-24.3	MB	MB
9570	304	-33.1	MB	MB
9980	289	-34.6	MB	MB
12500	198	-56.1		

Ship Crest Asc.No. I-24A
Lat. 27.7°N Long. 114.9°W
Rise Time 0815, 13 July 1949
Surface Observation at Release
 Wind N 5 knots
 Weather Scattered clouds
 Clouds 4H2/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1015	19.9	82	16.7
160	997	20.1	87	17.9
300	981	25.4	16	-2.0
670	941	25.4	16	-2.0
1600	845	20.1	56	11.0
4640	587	1.4	58	-6.0
5640	517	-3.4	37	-16.0
6160	484	-7.7	28	-23.0
6560	460	-8.5	MB	MB
7620	400	-15.8	MB	MB
8290	365	-21.1	MB	MB
8620	350	-22.5	MB	MB
13600	167	-61.0		
14900	135	-68.6		

Ship Crest Aso.No. I-26
 Lat. 28.2°N Long. 115.8°W
 Rise Time 0247, 14 July 1949 GCT
Surface Observation at Release
 Wind NNW 13 knots
 Weather Broken clouds
 Clouds 7L4/u; 2H4/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1013	19.7	88	17.6
300	982	16.5	79	12.9
470	962	24.5	22	1.5
630	945	25.4	41	11.3
930	912	24.9	47	12.9
1340	870	23.5	31	5.5
1560	848	23.3	23	1.2
2830	750	14.1	60	6.5
3470	675	10.9	52	1.5
3990	636	6.8	51	-2.5
4610	588	3.4	32	-11.7
5240	546	0.0	36	-13.2
5920	500	-5.3	42	-16.2
6430	468	-7.3	33	-20.8
7650	400	-15.2	MB	MB
10010	290	-33.2	MB	MB
11860	220	-48.1		

Ship Crest Aso.No. I-28
 Lat. 31.2°N Long. 117.2°W
 Rise Time 0232, 15 July 1949 GCT
Surface Observation at Release
 Wind NW 16 knots
 Weather Broken clouds
 Clouds 8L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1012	17.8	89	16.0
330	976	13.8	99	13.7
490	956	24.5	33	7.3
740	930	26.0	22	2.8
930	908	24.9	MB	MB
1130	892	25.5	MB	MB
1660	836	22.3	MB	MB
2060	798	21.6	22	-0.8
3030	712	15.3	42	2.5
4220	618	5.5	46	-5.1*
4463	600	4.9	M	M
5630	520	-3.2	M	M
5860	504	-3.6	M	M
7652	400	-14.6	M	M
8270	368	-18.4	M	M
9090	328	-25.8	M	M
12200	210	-49.9		
14655	142	-66.6		

*Beginning of missing relative humidity.

Ship Crest Aso.No. I-27
 Lat. 29.6°N Long. 116.6°W
 Rise Time 1456, 14 July 1949 GCT
Surface Observation at Release
 Wind NW 14 knots
 Weather Scattered clouds
 Clouds 1L5/u; 3H4/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1014	19.5	88	17.4
340	976	16.0	98	15.7
520	956	22.9	30	4.5
670	940	25.0	18	-0.8
1260	876	26.2	MB	MB
2110	795	21.1	19	-3.2
2350	774	19.5	37	4.5
3620	648	7.8	60	0.7
4470	600	3.8	54	-4.6
5620	520	-1.8	34	-15.6
5990	496	-4.5	44	-14.8
6500	466	-7.8	33	-21.3
7663	400	-14.6	33	-27.3
8800	344	-22.7	44	-31.6
9770	300	-30.2	48	-37.7
13200	180	-55.5		
14650	145	-65.4		

Ship Crest Asc No. II-1
 Lat. 31.4°N Long. 117.0°W
 Rise Time 0205, 4 August 1949 GCT
Surface Observation at Release
 Wind WNW 8 knots
 Weather Overcast
 Clouds 10L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1013	18.3	91	16.8
140	996	14.5	88	12.5
340	974	13.7	95	12.8*
430	958	13.1	100	13.1
660	938	23.5	49	12.3
1090	892	27.1	18	0.9
1240	877	26.8	35	10.2
1670	835	23.6	29	4.7
2220	784	19.8	37	4.8
2330	774	20.4	39	6.1
2690	742	17.1	50	6.7
3610	666	8.3	58	0.6
4600	590	1.8	59	-5.3
4960	563	-0.4	48	-10.0
5990	494	-7.6	74	-11.4
6320	474	-9.8	73	-13.7
6520	462	-10.0	32	-23.5
6960	436	-13.2	46	-22.3
7619	400	-17.1	36	-28.6
7970	382	-19.6	52	-27.0
8300	366	-21.7	39	-31.9
8750	344	-24.4	45	-32.9
9090	328	-28.3	47	-36.1
9820	296	-33.9	55	-39.8
10450	270	-38.6	M	M
12300	204	-53.0		
13318	174	-60.5		

*Base of 10L5/u

Ship Crest Asc No. II-2
 Lat. 29.2°N Long. 116.0°W
 Rise Time 1440, 4 August 1949 GCT
Surface Observation at Release
 Wind N 8 knots
 Weather Overcast
 Clouds 10L5/u

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Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1014	18.7	92	17.4
280	980	15.4	89	13.6*
480	958	14.7	92	13.4
670	936	22.8	21	-0.5
810	923	27.9	21	3.7
990	903	28.7	22	5.0
1670	836	23.4	25	2.4
1950	809	23.0	21	-0.3
3196	700	12.5	53	3.3
3400	682	10.6	49	0.4
3980	636	5.9	62	-0.7
4700	582	1.0	60	-5.8
5330	538	-3.1	49	-12.2
5730	512	-5.3	47	-14.8
5950	499	-5.2	35	-18.2
6640	450	-11.1	34	-23.8
6950	438	-11.4	MB	MB
7634	400	-16.1	MB	MB
9736	300	-30.9	MB	MB
10900	252	-42.2		
12920	186	-57.5		
14020	156	-64.3		
16000	112	-70.5		
17440	88	-67.1		
18880	70	-59.2		
20973	50	-57.5		

*Base of 10L5/u

Ship Crest Asc.No. II-3
Lat. 28.3°N Long. 116.2°W
Rise. Time 0410, 5 August 1949 GCT
Surface Observation at Release

Wind Calm

Weather Broken clouds

Clouds 1-L5/u; 1M7/u; 7H8/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1018	20.0	91	18.4
280	983	13.0	90	11.4
670	940	20.0	38	5.2
940	909	21.0	21	-2.2
1300	870	20.6	36	5.0
1700	830	18.0	29	-0.2
1900	812	17.1	43	4.5
2070	795	16.0	45	4.0
3620	660	3.5	78	0.0
5140	546	-5.8	81	-8.6
5800	500	-11.2	89	-12.6
6080	483	-11.2	75	-14.8
7520	400	-19.7	38	-50.4
10010	288	-37.7	MB	MB
11590	223	-51.1		

Ship Crest Asc.No. III-4
Lat. 27.5°N Long. 115.3°W
Rise. Time 1503, 5 August 1949 GCT
Surface Observation at Release

Wind NW 15 knots

Weather Overcast

Clouds 10L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1015	18.9	92	17.6
430	966	14.7	98	14.3*
620	946	13.8	98	13.5
690	938	11.6	48	1.1
880	917	25.1	16	-2.4
1420	862	23.3	16	-3.8
2170	790	18.6	32	1.7
2400	770	17.5	50	7.0
3580	668	7.9	76	4.0
4950	564	-1.1	77	-4.6
5520	524	-5.1	75	-8.8
6350	472	-10.4	62	-16.3
6730	449	-11.1	36	-23.2
7610	400	-15.5	31	-29.6
9800	296	-33.0	MB	MB
12930	186	-55.6		
14300	142	-64.6		
15310	126	-67.0		
15570	121	-71.1		
16120	110	-72.4		
17180	92	-67.6		

* Base of 10L5/u

Ship Crest Asc.No. II-5
Lat. 26.7°N Long. 116.4°W
Rise. Time 0231, 6 August 1949
Surface Observation at Release

Wind NW 9 knots

Weather Overcast

Clouds 9+L5/u; Ac visible through breaks

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1014	19.6	88	17.6
550	951	14.8	96	14.2*
690	935	13.4	98	13.0
780	927	10.7	48	0.2
940	907	23.3	20	-1.0
1190	882	25.0	MB	MB
1580	842	22.4	20	-1.6
2190	785	19.8	26	-0.2
2990	715	13.0	42	0.4
3420	679	9.6	68	4.0
3900	640	5.4	82	2.5
4900	564	-1.6	73	-5.7
5170	547	-2.6	55	-10.5
5670	513	-6.0	66	-11.2**
6040	487	-9.2	67	-14.2***
6530	460	-12.3	69	-16.8
6940	436	-12.5	35	-24.8
7590	400	-16.4	MB	MB
9940	290	-35.1	MB	MB
11050	246	-42.4		
14610	141	-66.9		

* Base of 9+L5/u

** Beginning of missing data

*** End of missing data

Ship Crest Asc.No. II-6
Lat. 25.8°N Long. 117.6°W
Rise. Time 1455, 6 August 1949 GCT
Surface Observation at Release
 Wind NW 8 knots
 Weather Overcast
 Clouds 10L5/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1016	19.9	85	17.3
600	950	14.5	91	13.1*
720	935	14.0	93	12.9
800	926	11.2	96	10.6
1100	894	23.1	23	0.9
1310	872	23.1	MB	MB
1980	816	20.6	23	-1.2
2470	762	16.8	24	-3.9
3120	704	11.3	49	1.0
3280	692	10.7	44	-1.1
3510	672	8.9	69	3.6
4860	570	-2.0	65	-7.7
5100	552	-2.3	52	-10.8
5220	544	-3.6	60	-10.2
5600	518	-6.7	57	-13.7
6000	492	-6.8	33	-20.3
6480	464	-9.2	MB	MB
6700	451	-11.2	MB	MB
7610	400	-16.5	MB	MB
10210	279	-36.0	MB	MB
12000	214	-51.0		
14800	137	-66.4		
15480	122	-68.4		
17400	89	-63.8		

* Base of 10L5/u

Ship Crest Asc.No. II-7
Lat. 25.2°N Long. 118.6°W
Rise. Time 0245, 7 August 1949 GCT
Surface Observation at Release
 Wind NW 14 knots
 Weather Overcast
 Clouds 10L5/315°

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1015	20.2	83	17.2
640	942	13.6	98	13.3*
820	922	11.3	100	11.3
910	912	19.6	19	-4.7
1020	900	21.8	MB	MB
1750	826	20.9	MB	MB
2120	791	18.2	19	-5.9
2580	750	14.5	35	-0.8
2840	727	12.6	56	4.0
3300	689	10.2	61	3.0
4130	623	2.5	68	0.2
4950	562	-3.1	49	-12.4
5270	540	-6.1	61	-12.5
5630	516	-8.5	52	-16.7
5870	500	-9.3	32	-22.9
6220	478	-9.5	31	-23.5
7560	400	-18.1	MB	MB
8280	362	-24.4	MB	MB
9600	302	-33.2	MB	MB
10240	275	-39.1	MB	MB
11920	214	-52.5		

* Base of 10L5/315°

Ship Crest Asc.No. II-8
 Lat. 24.1°N Long. 120.0°W
 Rise. Time 1448, 7 August 1949 GCT
Surface Observation at Release
 Wind N 9 knots
 Weather Broken clouds
 Clouds 8L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1016	20.9	81	17.5*
670	940	14.6	96	14.0**
810	926	13.4	100	13.4
910	914	22.0	23	0.1
1230	882	23.4		MB
1730	832	22.0	23	0.1
2140	793	18.2	54	8.8
2400	770	16.4	57	7.9
2660	746	15.7	47	4.5
2840	730	13.7	57	5.4
2980	718	12.5	45	1.0
3430	680	8.7	64	2.3
3620	664	6.7	64	0.4
4260	614	3.4	47	-6.7
4760	576	-0.8	53	-9.1
5160	548	-1.7	33	-15.8
5760	508	-5.0	33	-18.7
5990	494	-5.3	33	-19.0
6850	442	-12.1	37	-23.8
7624	400	-18.5	41	-28.5
8000	380	-20.8	40	-30.9
8360	363	-21.3	MB	MB
9200	323	-28.7	MB	MB
11460	232	-49.2		
13870	158	-65.7		
14120	152	-64.1		
14780	136	-69.6		
17160	92	-67.2		
19261	65	-60.5		

* Data doubtful for entire flight
 ** Base of 8L5/u

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Ship Crest Asc.No. II-8A
 Lat. 24.0°N Long. 120.8°W
 Rise. Time 2045, 7 August 1949 GCT
Surface Observation at Release
 Wind N 15 knots
 Weather Overcast
 Clouds 9+L5/360°

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1017	21.9	75	17.3
270	986	18.9	71	13.6
860	920	13.0	84	10.3*
890	917	12.6	85	10.1
940	910	19.0	17	-6.6
1110	894	20.7	MB	MB
1430	860	22.5	MB	MB
2060	800	18.5	MB	MB

* Base of 9+L5/360°

Ship Crest Asc.No. II-9
 Lat. 24.8°N Long. 121.4°W
 Rise. Time 0257, 8 August 1949 GCT
Surface Observation at Release
 Wind NNE 15 knots
 Weather Overcast
 Clouds 10L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1016	19.9	80	16.4
138	1000	15.9	83	13.0
570	948	12.1	93	11.0*
650	939	11.4	95	10.7
780	925	17.3	16	-8.6
930	910	19.0	16	-7.3
1190	884	19.0	16	-7.3
1620	840	16.6	35	1.2
2200	784	13.7	18	-10.1
2440	762	12.4	27	-6.0
2570	750	11.4	45	0.0
3300	685	4.9	70	-0.1
3630	659	2.4	57	-5.2
3940	634	1.0	24	-17.2
4170	617	-0.2	23	-18.8
4640	582	-3.8	35	-17.0
5050	552	-5.6	26	-22.0
5900	494	-9.0	28	-24.1
7340	410	-20.5	42	-30.1
7515	400	-20.5	38	-31.1
8140	368	-25.1	37	-35.6
10790	279	-39.7	MB	MB
12271	200	-56.4		
14310	144	-67.7		
15700	114	-73.2		
16461	100	-70.6		

* Base of 10L5/u

Ship Crest Asc.No. II-10
 Lat. 26.1°N Long. 122.0°W
 Rise. Time 1518, 8 August 1949 GCT
 Surface Observation at Release
 Wind NE 16 knots
 Weather Broken clouds
 Clouds 8L5/360°

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1018	20.4	81	17.0
610	960	15.9	88	13.9
690	940	14.9	82	11.9
750	932	18.7	18	-6.0
1150	890	20.8	18	-4.3
1580	848	19.4	36	4.0
1860	820	17.5	28	-1.1
2350	774	14.2	51	4.2
2560	756	13.6	38	-0.4
2970	720	10.6	39	-2.7
3120	706	10.2	24	-9.3
3760	654	5.4	32	-9.9
4120	626	3.0	26	-14.6
4270	614	1.7	43	-9.5
5240	544	-6.2	70	-10.7
5440	530	-4.8	28	-20.4
5810	506	-5.2	MB	MB
7598	400	-19.2	MB	MB
7880	386	-19.8	MB	MB
10200	280	-38.8	MB	MB
12900	184	-60.0		
13586	165	-60.9		

Ship Crest Asc.No. II-11 111
 Lat. 27.3°N Long. 120.5°W
 Rise. Time 0250, 9 August 1949 GCT
 Surface Observation at Release
 Wind NNE 20 knots
 Weather Broken clouds
 Clouds 8L5/360°

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1015	18.9	84	16.1
630	944	13.4	94	12.4*
750	931	13.0	96	12.4
800	924	19.0	20	-4.4
970	904	20.8	19	-3.5
1190	884	19.4	32	2.4
1300	872	20.0	38	5.3
2380	768	14.0	29	-3.7
2890	722	10.1	46	-0.9
3020	710	9.2	39	-4.0
3220	694	7.5	48	-2.7
3600	662	5.4	25	-13.0
3760	650	4.5	42	-7.2
3970	633	2.8	37	-10.4
4670	581	-3.4	54	-11.3
4720	576	-2.6	27	-18.9
5280	537	-3.4	MB	MB
6200	477	-9.4	MB	MB
7540	400	-19.9	MB	MB
9170	320	-31.2	MB	MB
11030	243	-45.2		
11882	214	-51.0		

* Base of 8L5/360°

Ship Crest Ass.No. II-12
Lat. 27.9°N Long. 119.4°W
Rise Time 1509, 9 August 1949 GCT
Surface Observation at Release
 Wind NNW 12 knots
 Weather Overcast
 Clouds 9L5/u

Ship Crest Ass.No. II-13
Lat. 28.6°N Long. 118.3°W
Rise Time 0210, 10 August 1949 GCT
Surface Observation at Release
 Wind NNW 15 knots
 Weather Scattered clouds
 Clouds 2L5/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1016	18.4	76	14.1
770	928	12.0	95	11.2
1025	900	11.0	100	11.0
1230	880	19.5	44	7.0
1360	866	19.5	36	4.1
1600	842	20.1	43	7.3
1880	814	16.6	46	5.0
2640	745	11.1	27	-7.1
2920	720	10.8	21	-10.6
3370	680	8.0	MB	MB
3940	636	3.4	MB	MB
4430	598	2.1	MB	MB
4860	566	-1.7	MB	MB
5730	508	-4.1	MB	MB
6740	446	-13.1	MB	MB
6840	440	-13.1	MB	MB
7562	400	-18.3	ML	MB
12700	190	-64.7		
15090	130	-63.4		
15900	114	-65.1		
17200	92	-64.3		
18296	77	-60.0		

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1014	18.6	74	13.9
760	929	12.0	83	9.2
950	907	11.6	81	8.4
1130	887	16.8	35	1.3
1330	807	16.8	42	3.8
1740	826	14.2	42	1.4
1890	812	14.6	21	-7.5
2010	800	14.6	MB	MB
2340	770	15.3	MB	MB
3120	700	7.6	MB	MB
3370	680	8.1	MB	MB
4300	606	2.4	MB	MB
4920	560	-2.7	MB	MB
5180	542	-2.4	MB	MB
6140	480	-9.5	MB	MB
7510	400	-21.0	MB	MB
8850	334	-29.3	MB	MB
9970	285	-37.7	MB	MB
11100	240	-47.3		
13410	168	-60.4		
14970	130	-64.3		

* Base of 9L5/u

Ship Crest Asc.No. II-14
 Lat. 29.1°N Long. 117.2°W
 Rise. Time 1503, 10 August 1949 GCT
Surface Observation at Release
 Wind NNW 13 knots
 Weather Scattered clouds
 Clouds 4L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1015	19.3	69	13.5
130	1000	14.5	69	8.9
870	916	7.6	92	6.4
1010	900	6.7	97	6.3
1200	880	12.9	49	2.5
1500	850	14.3	30	-2.9
1810	817	11.9	25	-7.4
2100	791	9.9	MB	MB
2430	758	8.7	MB	MB
2730	732	7.1	MB	MB
2900	716	6.4	MB	MB
4070	620	-0.6	MB	MB
4330	600	-3.2	MB	MB
4600	580	-3.3	MB	MB
5630	508	-9.7	MB	MB
6970	426	-20.0	MB	MB
7430	400	-22.2	MB	MB
8400	350	-29.2	MB	MB
10080	276	-44.0		
11870	210	-55.5		
12970	176	-61.0		
13400	164	-59.5		
14180	144	-64.3		

Ship Crest Asc.No. II-15
 Lat. 29.7°N Long. 116.2°W
 Rise. Time 0244, 11 August 1949 GCT
Surface Observation at Release
 Wind NW 14 knots
 Weather Scattered clouds
 Clouds 3L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1015	18.4	73	13.5
880	915	12.4	78	8.7
1100	892	15.5	32	-1.0
1310	870	17.4	17	-7.1
1610	840	17.4	MB	MB
2130	790	16.6	MB	MB
2680	740	13.7	MB	MB
3990	631	4.7	MB	MB
4140	619	4.7	MB	MB
6820	442	-12.2	MB	MB
7570	400	-17.2	MB	MB
10370	270	-38.2	MB	MB
11800	220	-47.3		
13300	174	-55.5		
14850	136	-61.0		

Ship Crest Asc.No. II-16 113
 Lat. 31.2°N Long. 117.2°W
 Rise. Time 1500, 11 August 1949 GCT
Surface Observation at Release
 Wind NW 18 knots
 Weather Broken clouds
 Clouds 8L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1019	17.3	76	13.0
830	924	9.9	90	8.2*
950	912	8.4	93	7.4
1050	900	15.8	29	-2.1
1260	880	15.8	25	-4.1
1840	820	13.0	25	-6.5
2370	772	12.2	17	-12.0
2740	737	9.6	MB	MB
3320	686	6.7	MB	MB
3500	673	5.0	21	-15.4
4040	628	2.1	27	-14.8
4230	614	1.0	22	-18.3
4400	600	1.0	22	-18.3
6930	494	-8.4	MB	MB
7545	400	-20.3	MB	MB
11070	244	-45.7		
12610	192	-55.3		
12960	182	-55.8		
13220	174	-57.2		
14130	152	-57.2		
14390	146	-59.1		
16000	112	-61.5		
17050	94	-61.4		

* Base of 8L5/u

Ship Crest Asc No. II-17
 Lat. 30.4°N Long. 118.6°W
 Rise Time 0239, 12 August 1949 GCT
 Surface Observation at Release
 Wind NNW 20 knots
 Weather Scattered clouds
 Clouds 4L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1018	17.3	81	14.0
550	954	12.1	90	10.5
670	940	10.7	93	9.6*
730	932	9.5	65	3.3
860	919	15.4	45	3.6
990	904	16.1	35	0.8
1620	840	16.0	16	-9.7
2150	788	11.6	34	-3.6
2490	757	9.5	28	-8.0
2860	724	9.1	18	-13.9
4060	626	4.3	MB	MB
5100	549	-2.7	MB	MB
6360	467	-12.0	MB	MB
7540	400	-19.6	MB	MB
7880	382	-22.2	MB	MB

*Base of 4L5/u

Ship Crest Asc No. II-18 114
 Lat. 29.7°N Long. 119.9°W
 Rise Time 1515, 12 August 1949 GCT
 Surface Observation at Release
 Wind NNW 19 knots
 Weather broken clouds
 Clouds 8L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
11	1020	17.9	74	13.2
110	1008	16.8	69	11.1
1000	908	8.8	92	7.6
1160	892	13.9	31	2.9
1390	868	17.0	23	4.2
1610	844	15.8	29	-2.0
1880	818	13.5	31	-3.2
2250	786	13.5	24	-6.6
2510	758	12.4	MB	MB
2670	744	12.6	MB	MB
3920	652	5.3	MB	MB
5150	550	-1.9	MB	MB
5300	540	-2.5	MB	MB
7581	400	-18.9	MB	MB
9780	298	-33.9	MB	MB
13600	166	-56.4		
15230	128	-61.6		
15990	114	-61.6		
16400	106	-63.8		
19925	60	-59.7		

Ship Crest Asc. No. II-19
 Lat. 29.0°N Long. 121.1°W
 Rise Time 0250, 13 August 1949 GCT
Surface Observation at Release
 Wind N 20 knots
 Weather overcast
 Clouds 10L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1019	18.9	76	11.5
990	908	10.7	94	9.7*
1220	881	8.1	98	7.8
1420	862	14.4	45	2.7
1820	822	16.0	23	-5.1
2110	795	16.0	MB	MB
3070	707	11.8	MB	MB
3740	653	5.6	MB	MB
3940	637	4.6	MB	MB
4200	616	4.6	MB	MB
4560	590	3.2	MB	MB
7140	424	-14.3	MB	MB
7600	400	-18.0	MB	MB
7760	392	-19.4	MB	MB
7980	380	-19.7	MB	MB
9990	288	-34.2	MB	MB
10680	260	-40.8		

*Base of 10L5/u

Ship Crest Asc No. II-20 115
 Lat. 28.2°N Long. 122.4°W
 Rise Time 1500, 13 August 1949 GCT
Surface Observation at Release
 Wind N 17 knots
 Weather overcast
 Clouds 10L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1020	19.0	83	16.1
250	990	16.2	75	11.8
380	976	15.6	78	11.8
1060	900	9.9	93	8.8
1400	866	7.9	98	7.6
1610	844	15.4	24	-4.9
1880	818	17.4	MB	MB
2350	774	14.9	MB	MB
3300	690	7.5	MB	MB
3840	646	8.0	MB	MB
4190	620	6.3	MB	MB
4870	570	2.1	MB	MB
5970	496	-5.5	MB	MB
6760	448	-11.2	MB	MB
7600	400	-14.7	MB	MB
8850	336	-24.9	MB	MB
9420	312	-27.4	MB	MB
10670	262	-35.7	MB	MB
12170	214	-48.1		
14430	146	-62.7		
16190	110	-69.1		
16590	102	-67.5		
16880	98	-68.6		

*Base of 10L5/u

Ship Crest Asc. No. II-21
 Lat. 28.4°N Long. 123.4°W
 Rise Time 0305, 14 August 1949 GCT
Surface Observation at Release
 Wind N 20 knots
 Weather overcast
 Clouds 10L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1020	18.8	80	15.3
220	997	16.0	86	13.7
650	945	12.4	96	11.8*
1060	900	10.1	100	10.1
1140	892	7.9	72	3.0
1250	880	13.0	18	-10.8
1440	860	17.2	17	-8.1
2020	802	15.6	MB	MB
2590	750	11.9	MB	MB
2720	738	12.2	MB	MB
3040	710	11.0	MB	MB
3320	687	11.0	MB	MB
4470	597	3.5	MB	MB
5390	532	-2.5	MB	MB
6170	482	-7.8	MB	MB
6550	460	-7.8	MB	MB
7610	400	-15.8	MB	MB
9010	330	-28.0	MB	MB
9240	319	-28.9	MB	MB
10030	286	-34.4	MB	MB
11580	228	-48.0		
12570	196	-56.6		
12830	188	-56.6		
13460	170	-60.8		
14640	140	-66.8		

*Base of 10L5/u

Ship Crest Asc. No. II-22
 Lat. 29.5°N Long. 125.0°W
 Rise Time 1445, 14 August 1949 GCT
Surface Observation at Release
 Wind N 15 knots
 Weather overcast-occasional light
 drizzle
 Clouds 10L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1021	18.2	77	14.0
990	909	9.6	97	9.1
1320	874	7.7	100	7.7
1590	846	13.6	47	2.5
1900	816	15.8	19	-7.8
2330	774	14.7	MB	MB
3190	698	9.5	MB	MB
3680	658	7.5	MB	MB
4300	610	2.2	MB	MB
4510	594	1.4	MB	MB
4680	582	0.4	MB	MB
5140	550	-0.6	MB	MB
5590	520	-4.0	MB	MB
6400	470	-7.6	MB	MB
6740	448	-9.9	MB	MB
7610	400	-16.9	MB	MB
8210	370	-21.1	MB	MB
8810	340	-23.9	MB	MB
9946	290	-31.7	MB	MB

Ship Crest Asc No. II-23
 Lat. 30.30° N Long. 123.40W
 Rise Time 0310, 15 August 1949 GCT
Surface Observation at Release
 Wind N 15 knots
 Weather broken clouds
 clouds 6L8/360°

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1020	18.3	74	13.6
260	988	14.7	75	10.3
500	961	12.5	85	10.0
870	929	10.0	86	7.8*
1220	880	6.0	93	5.0
1340	868	13.4	56	4.9
1540	848	15.6	38	1.4
2010	802	13.0	38	-1.0
2250	780	13.8	23	-7.0
3000	712	11.1	MB	MB
4960	561	-2.6	MB	MB
5580	518	-7.9	MB	MB
6070	486	-7.6	MB	MB
7570	400	-18.5	MB	MB
8380	358	-25.7	MB	MB
8620	347	-27.0	MB	MB
11610	224	-49.1		
13380	170	-60.3		

*Base of 6L8/360°

Ship Crest Asc No. II-24 117
 Lat. 3029N Long. 122.00W
 Rise Time 1457, 15 August 1949 GCT
Surface Observation at Release
 Wind N 16 knots
 Weather overcast with breaks
 clouds 9 L5/270°

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1020	17.7	69	11.9
700	940	11.6	77	7.7
1210	884	7.4	93	6.3
1350	870	6.1	97	5.7
1510	852	14.0	21	-7.8
1660	837	17.1	20	-6.0
2220	783	13.5	23	-7.1
2420	766	14.0	21	-7.8
2790	732	12.5	MB	MB
3410	680	6.6	MB	MB
3540	668	6.5	MB	MB
3770	651	4.7	MB	MB
4500	594	1.2	MB	MB
4940	562	-3.1	MB	MB
6430	464	-12.1	MB	MB
6690	450	-12.5	MB	MB
7200	420	-13.8	MB	MB
7560	400	-16.1	MB	MB
9200	322	-29.6	MB	MB
10390	272	-36.7	MB	MB
12930	184	-57.4		
13190	178	-56.4		
13244	175	-57.0		

Ship Crest Asc No. II-25
 Lat. 31.4°N Long. 120.9°W
 Rise Time 0410, 16 August 1949 GCT
Surface Observation at Release
 Wind NNW 17 knots
 Weather scattered clouds
 Clouds 2L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1019	16.7	89	14.8
250	990	14.4	91	12.9
930	914	10.9	80	7.6
1140	890	15.2	19	-8.2
1440	859	17.0	MB	MB
1830	820	16.2	MB	MB
2280	778	14.4	MB	MB
2830	728	10.7	MB	MB
3360	683	6.4	MB	MB
3670	657	5.1	MB	MB
4409	600	-0.1	MB	MB
4540	590	-0.1	MB	MB
5000	557	-2.8	MB	MB
5970	491	-11.1	MB	MB
6650	450	-14.4	MB	MB
6900	435	-14.4	MB	MB
7534	400	-18.3	MB	MB
9620	300	-33.5	MB	MB
10930	248	-45.2		
12650	190	-56.7		
13140	176	-54.7		
13740	160	-58.2		
14000	153	-58.2		
15280	125	-63.8		

Ship Crest Asc No. II-26 118
 Lat. 31.9°N Long. 119.5°W
 Rise Time 1500, 16 August 1949 GCT
Surface Observation at Release
 Wind NNW 22 knots
 Weather broken clouds
 Clouds 8L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1018	16.2	78	12.4
500	960	11.6	83	8.9
930	912	8.0	95	7.2
1040	900	14.8	39	1.0
1310	872	16.6	16	-9.2
1650	838	16.4	16	-9.4
2030	804	15.5	17	-9.3
2310	774	12.4	18	-11.2
2500	758	12.4	17	-11.9
3030	710	10.9	MB	MB
3990	632	2.9	MB	MB
5100	550	-1.5	MB	MB
6290	472	-10.3	MB	MB
6650	450	-11.7	MB	MB
6810	440	-11.1	MB	MB
7550	400	-16.7	MB	MB
8380	358	-23.0	MB	MB
10170	280	-36.6	MB	MB
12700	190	-55.3		
12910	184	-54.5		
13410	170	-56.4		
13800	160	-54.5		
15280	126	-61.5		
17790	84	-65.3		
18520	74	-62.6		
19640	62	-62.6		

Ship Crest Asc No. II 27
 Lat. 32.5°N Long. 118.4°W
 Rise Time 0210, 17 August 1949 OCT
Surface Observation at Release
 Wind NNW 23 knots
 Weather Broken Clouds
 Clouds 5L5/315°

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
I	1016	16.6	86	11.3
480	962	14.0	88	12.1
580	951	19.0	27	-0.3
780	927	20.8	15	-6.7
1000	903	21.1	MB	MB
1330	870	19.3	MB	MB
1560	847	19.4	MB	MB
2510	758	12.7	MB	MB
2840	728	13.2	MB	MB
3600	665	9.4	MB	MB
5800	506	-5.8	MB	MB
5890	500	-4.9	MB	MB
6270	477	-7.2	MB	MB
7600	400	-18.8	MB	MB
8780	340	-28.0	MB	MB
9120	324	-28.7	MB	MB
11000	247	-44.1		
11320	236	-46.1		

Ship Crest Asc No. III-1
 Lat. 30.2°N Long. 116.5°W
 Rise Time 1540, 4 September 1949 GCT
Surface Observation at Release
 Wind NW 10 knots
 Weather Overcast
 Clouds 10L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1010	18.9	81	15.5
470	956	13.0	94	12.0*
560	946	11.9	95	11.1
700	930	23.5	17	-3.0
1070	892	25.0	18	-2.6
1160	879	23.5	26	2.8
1480	848	22.8	28	3.5
1780	820	21.9	20	-2.2
2720	736	15.0	36	0.0
2970	713	13.0	46	1.7
3820	646	6.4	62	-0.4
4980	568	-2.6	44.	-13.1
5850	500	-8.8	57	-15.9
6640	451	-14.0	41	-24.5
6890	436	-17.0	49	-25.1
7100	424	-18.5	36	-29.9
7550	400	-20.5	34	-32.4
7620	396	-21.0	35	-32.5
8050	373	-21.4	MB	MB
10270	278	-35.7	MB	MB
11550	227	-44.2		
12840	187	-53.5		
13170	178	-55.4		
13420	170	-54.9		
13780	161	-58.6		

*Base of 10L5/u

Ship Crest Asc No. III-2
 Lat. 28.5°N Long. 115.7°W
 Rise Time 0300, 5 September 1949 GCT
Surface Observation at Release
 Wind NW 10 knots
 Weather Broken clouds
 Clouds 8L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1008	19.7	88	17.6
430	960	16.0	90	14.3
480	954	23.4	21	0.0
580	943	24.7	19	-0.5
750	924	24.5	39	9.8
1400	858	24.4	22	1.5
1660	832	21.4	31	3.7
3110	702	10.0	48	-0.4
3720	651	4.6	53	-4.1
4360	601	1.0	38	-11.7
4940	559	-4.0	42	-14.9
5410	527	-7.6	39	-19.1
5600	514	-8.5	33	-21.8
6660	448	-18.6	35	-30.2
7507	400	-20.1	MB	MB
7750	388	-20.4	MB	MB
9650	298	-33.6	MB	MB
12240	202	-54.2		
14190	148	-67.2		
15618	116	-73.7		

Ship Crest Asc No. III-3
 Lat. 27.1°N Long. 115.9°W
 Rise Time 1432, 6 September 1949 GCT

Surface Observation at Release

Wind NNW 20 knots

Weather Broken clouds

Clouds 7L5/315°

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1009	20.0	90	18.3
470	955	16.2	89	14.4
550	946	22.5	51	11.9
600	941	23.3	48	11.8
750	924	25.2	43	11.9
1150	882	24.4	33	7.1
1700	829	21.3	18	-3.9
1830	817	20.6	35	4.7
2130	790	18.8	35	3.1
2410	764	16.6	53	7.1
3610	661	7.8	50	-1.9
3870	640	5.4	55	-2.9
4040	628	5.1	35	-9.0
4940	562	-2.3	55	-10.1
5310	536	-3.0	33	-16.9
5500	523	-4.6	37	-17.1
5640	514	-5.0	29	-20.2
6540	458	-13.4	33	-26.2
6650	451	-13.4	32	-26.6
6950	434	-16.0	MB	MB
7561	400	-16.0	MB	MB
7700	393	-15.8	MB	MB
9710	299	-28.8	MB	MB
11750	221	-45.5		
13500	170	-58.3		
15000	133	-66.8		
16490	103	-72.0		
16938	96	-71.9		

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Ship Crest Asc No. III-4
 Lat. 26.2°N Long. 117.1°W
 Rise Time 0320, 6 September 1949 GCT

Surface Observation at Release

Wind NNW 20 knots

Weather Broken clouds

Clouds 8L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1008	20.0	91	18.5
380	963	16.2	95	15.4
450	956	23.1	26	2.7
520	948	25.0	19	-0.1
930	906	25.0	19	-0.1
1970	802	18.9	40	5.1
2300	773	16.1	51	6.0
2870	721	11.9	53	2.7
3380	678	8.5	49	-1.5
3540	656	7.8	49	-2.1
3800	645	6.8	30	-9.5
3900	637	6.0	32	-9.3
4090	621	4.4	40	-7.9
4400	598	2.3	34	-11.9
4650	581	1.7	27	-15.2
5120	548	-1.4	26	-18.3
5930	494	-10.0	MB	MB
6300	472	-9.0	MB	MB
7330	412	-14.2	MB	MB
7555	400	-15.8	MB	MB
7750	395	-16.8	MB	MB
7900	382	-17.3	MB	MB
10400	274	-35.7	MB	MB
11260	237	-44.1		
11728	222	-46.2		

Ship Crest Asc No. III-5
Lat. 23.4°N Long. 118.3°W
Rise Time 1440, 6 September 1949 GCT
Surface Observation at Release
 Wind N 18 knots
 Weather Broken clouds
 Clouds 9L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1009	20.6	86	18.1
620	940	14.4	94	13.4*
730	928	13.7	99	13.5
790	920	22.5	23	0.5
1210	877	24.9	23	2.4
1720	828	21.6	42	8.3
2330	770	15.9	55	6.9
2450	759	15.9	48	5.0
2870	721	13.1	53	3.8
3320	683	10.7	33	-4.8
4080	624	5.5	49	-4.3
4740	575	1.2	30	-14.4
5680	511	-5.6	38	-17.7
6200	478	-8.5	50	-17.0
6340	470	-7.5	34	-20.6
7586	400	-13.8	MB	MB
9820	296	-28.6	MB	MB
10610	264	-34.9	MB	MB
13100	183	-53.0		
14270	152	-62.0		
15930	114	-72.3		
16745	100	-74.8		
17360	90	-72.0		

*Base of 9L5/u

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Ship Crest Asc No. III-6
Lat. 24.4°N Long. 119.7°W
Rise Time 0232, 7 September 1949 GCT
Surface Observation at Release
 Wind N 20 knots
 Weather Broken clouds
 Clouds 9L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1008	22.4	80	18.8
720	928	15.5	95	14.7
870	911	24.7	35	8.3
1130	883	24.7	30	6.1
1440	854	22.2	32	4.8
1740	824	20.7	32	3.5
2004	800	18.8	44	6.4
2670	740	14.2	42	1.6
3260	689	10.9	54	2.0
3480	673	9.7	47	-1.1
3570	664	9.3	55	0.8
4230	614	4.1	57	-3.6
4770	574	2.4	29	-13.7
5700	510	-5.3	36	-18.3
6020	490	-8.1	37	-20.2
6140	483	-5.8	33	-19.5
7110	426	-9.6	MB	MB
7588	400	-12.9	MB	MB
11370	236	-42.0		
12130	211	-48.5		
15163	132	-69.5		

Ship Crest Asc No. III-7
 Lat. 24.2°N Long. 120.8°W
 Rise Time 1503, 7 September 1949 GCT
Surface Observation at Release
 Wind NNE 19 knots
 Weather Broken clouds
 Clouds 6L5/360°

Ship Crest Asc No. III-8
 Lat. 25.9°N Long. 122.2°W
 Rise Time 0240, 8 September 1949 GCT
Surface Observation at Release
 Wind NNW 23 knots
 Weather Broken clouds
 Clouds 6L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1010	21.6	87	19.4
510	952	16.3	92	15.1
700	931	21.0	53	11.1
9000	910	23.1	31	5.1
1080	891	22.3	27	3.0
1200	879	21.6	49	10.5
1840	816	17.6	67	11.5
2140	788	15.5	71	10.3
2430	763	15.6	51	5.6
2880	722	12.5	47	1.6
3950	636	5.5	52	-3.5
4150	619	5.7	20	-15.4
5210	544	-3.7	29	-19.0
5300	538	-1.0	24	-19.0
5620	517	-1.0	MB	MB
6560	458	-5.3	MB	MB
7600	400	-12.9	MB	MB
8660	347	-22.0	MB	
9380	315	-25.9	MB	MB
12330	204	-49.4		
14900	136	-68.3		
16703	100	-77.9		
17350	90	-73.0		
18340	76	-74.2		
19450	63	-65.5		
21091	48	-61.0		

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1012	20.3	88	18.3
360	971	17.0	92	15.7
480	957	19.8	37	4.8
550	950	21.6	29	2.9
700	933	23.5	20	-0.6
870	915	23.5	MB	MB
1240	877	22.0	20	-1.5
1650	836	19.8	41	6.3
2620	747	14.7	49	4.2
3200	696	11.1	27	-7.0
3550	668	8.9	27	-9.0
3760	651	7.0	31	-8.9
3840	645	7.0	22	-13.2
4340	606	2.4	MB	MB
4830	570	3.3	MB	MB
5930	497	-1.5	MB	MB
7300	417	-11.9	MB	MB
7631	400	-13.3	MB	MB
14650	142	-67.8		
15670	120	-74.3		
16634	101	-77.3		

Ship Crest Asc No. III-9
 Lat. 26.3°N Long. 121.5°W
 Rise Time 1432, 8 September 1949 GCT

Surface Observation at Release

Wind N 23 knots
 Weather Scattered clouds
 Clouds 2L5/u

Ship Crest Asc No. III-10
 Lat. 27.2°N Long. 120.1°W
 Rise Time 0231, 9 September 1949 GCT

Surface Observation at Release

Wind N 26 knots
 Weather Overcast
 Clouds 10M2/u

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Alt.	Press.	Temp.	R.H.	Dew Pt
1	1012	20.6	90	18.9
360	970	17.9	92	16.6
430	963	18.3	90	16.7
530	951	21.9	49	10.8
620	942	22.0	44	9.3
780	924	23.4	36	7.6
930	908	22.0	54	12.3
1090	892	21.8	42	8.4
1280	872	21.8	56	12.7
1570	844	19.1	72	13.9
2550	754	12.9	81	9.8
3060	709	11.5	74	7.1
3340	685	10.9	59	3.2
3670	657	8.3	61	1.3
3960	635	6.3	53	-2.5
4500	594	1.6	61	-5.1
4600	587	5.2	24	-13.6
4940	563	3.6	MB	MB
5200	545	4.1	MB	MB
6850	443	-8.6	MB	MB
7370	413	-13.0	MB	MB
7628	400	-13.4	MB	MB
8140	374	-16.3	MB	MB
9800	298	-30.7	MB	MB
11520	232	-45.7		
14470	145	-66.4		
16684	100	-78.0		
17570	86	-70.3		
18140	78	-70.3		
19142	66	-64.9		

Alt.	Press	Temp.	R.H.	Dew Pt
1	1010	20.7	93	19.5
240	983	19.3	95	18.5
670	933	19.8	100	19.8
1770	822	15.5	100	15.5
2070	793	14.9	99	14.8
2880	720	11.7	95	10.9
3140	698	11.9	89	10.1
3440	674	10.2	69	4.8
3670	655	10.2	48	-0.2
3850	642	11.5	29	-5.8
4050	626	11.3	26	-7.4
4510	583	7.6	23	-9.6
4690	580	7.8	17	-15.6
4940	563	6.9	MB	MB
5640	517	2.8	MB	MB
5906	500	0.7	MB	MB
6530	463	-2.3	MB	MB
7659	400	-11.0	MB	MB
9750	347	-19.8	MB	MB
9100	330	-21.2	MB	MB
11950	221	-44.4		
13190	182	-51.9		
13670	169	-55.5		
14840	141	-62.2		
16096	114	-68.6		

Ship Crest Asc No. III-11
Lat. 27.9°N Long. 118.9°W
Rise Time 1434, 9 September 1949 GCT
Surface Observation at Release
 Wind NE 14 knots
 Weather Light drizzle (intermittent)
 Clouds 10L6/a

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt</u>
1	1012	21.4	99	21.2
230	986	19.2	97	18.6
570	947	17.5	99	17.4
1030	897	17.7	98	17.4
1320	819	15.0	90	13.4
2520	754	14.5	64	7.8
3100	703	11.6	45	0.2
3240	692	11.6	49	1.3
3650	658	9.3	42	-2.9
4020	630	5.7	50	-3.9
4940	563	2.0	21	-17.9
5280	539	-0.2	MB	MB
5910	523	0.2	MB	MB
5530	498	-0.4	MB	MB
6230	478	-2.8	MB	MB
7130	426	-9.5	MB	MB
7623	400	-14.3	MB	MB
7780	392	-15.7	MB	MB
7900	386	-15.4	MB	MB
8290	366	-20.5	MB	MB
8370	362	-20.1	MB	MB
10560	266	-38.4	MB	MB
11050	246	-43.8		
12800	190	-56.7		
14980	133	-70.4		
16200	108	-75.8		
16644	100	-73.4		
16920	95	-74.3		
17880	81	-67.6		
19530	62	-62.4		
20152	56	-56.9		

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Ship Crest Asc No. III-12
Lat. 28.9°N Long. 118.2°W
Rise Time 0240, 10 September 1949 GCT
Surface Observation at Release
 Wind NNE 16 knots
 Weather Broken clouds
 Clouds 6L5/270°

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt</u>
1	1012	21.4	86	18.9
400	968	17.7	96	17.0
780	926	19.9	86	17.5
1280	874	18.1	81	14.9
1640	838	17.7	71	12.4
1810	820	16.5	67	10.4
2680	742	13.2	60	5.7
2820	728	12.0	48	1.4
2970	716	11.3	58	3.4
3600	664	9.4	24	-10.0
4050	629	6.0	54	-2.5
4420	600	4.3	43	-7.1
4580	589	3.3	51	-5.8
5410	530	-1.9	27	-18.3
5690	512	-1.5	MB	MB
5980	494	-1.5	MB	MB
7620	400	-15.4	MB	MB
9210	324	-28.4	MB	MB
9470	312	-29.4	MB	MB
12100	212	-49.8		
14350	136	-70.1		
15150	130	-69.6		
16350	125	-71.4		

Ship Crest Asc No. III-13
Lat. 29.2°N Long. 117.0°W
Rise Time 1431, 10 September 1949 GCT
Surface Observation at Release
 Wind NNW 14 knots
 Weather Scattered clouds
 Clouds 4L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1012	20.4	91	18.8
450	961	16.4	95	15.6
600	944	21.5	39	7.0
980	913	19.5	82	16.4
1300	870	19.7	64	12.8
1640	836	18.4	57	9.8
1950	806	16.7	60	8.3
2220	782	16.1	53	6.6
2350	768	16.1	32	-0.5
2700	738	13.6	53	4.3
3230	689	10.2	50	0.4
3930	645	6.3	57	-1.5
3950	635	5.8	66	-0.2
4240	613	3.6	66	-2.3
4600	586	1.1	43	-10.0
4790	572	0.2	48	-9.4
5420	529	-2.8	28	-18.7
5530	522	-0.9	26	-18.3
6190	480	-5.5	MB	MB
6970	434	-10.2	MB	MB
7698	400	-14.2	MB	MB
7900	380	-15.7	MB	MB
8690	346	-22.8	MB	MB
9700	302	-31.2	MB	MB
13070	286	-33.1	MB	MB
11480	233	-43.1		
11950	217	-47.4		
14050	167	-63.4		
14660	142	-67.2		
16360	107	-74.1		
13800	97	-70.6		
18872	70	-63.4		

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Ship Crest Asc No. III-14
Lat. 29.8°N Long. 116.2°W
Rise Time 0300, 11 September 1949 GCT
Surface Observation at Release
 Wind NNW 20 knots
 Weather Broken clouds
 Clouds 8L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1010	20.2	87	18.0
330	973	17.0	89	15.1
510	952	16.3	89	14.5
560	946	20.2	55	11.0
700	931	21.9	44	9.2
390	910	21.7	23	-0.2
1130	885	20.4	61	12.6
1760	822	17.7	56	8.9
2120	790	16.6	48	5.6
2360	767	16.6	31	-0.5
2820	727	13.4	47	2.4
3340	685	9.7	52	0.4
3910	637	5.1	44	-6.0
4090	623	3.8	55	-4.4
4200	615	4.0	53	-4.6
4520	591	1.6	57	-5.9
4570	587	2.3	36	-11.2
5080	551	-1.3	42	-12.5
5380	531	-0.8	19	-21.5
5480	524	-1.1	MB	MB
6010	490	-5.3	MB	MB
6470	462	-7.4	MB	MB
7682	400	-14.8	MB	MB
7900	383	-17.1	MB	MB
12835	137	-54.8		

Ship Crest Asc No. III-15
 Lat. 31.2°N Long. 117.2°W
 Rise Time 1502, 11 September 1949 GCT
Surface Observation at Release
 Wind NNW 15 knots
 Weather Overcast
 Clouds 10L5/270°

Ship Crest Asc No. III-16
 Lat. 30.3°N Long. 116.7°W
 Rise Time 0250, 12 September 1949 GCT
Surface Observation at Release
 Wind NW 15 knots
 Weather Broken clouds
 Clouds 6L5/u

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Alt.	Press.	Temp.	R.H.	Dew Pt
1	1013	17.7	86	16.3
500	956	13.5	88	11.5*
710	933	12.3	91	10.9
830	920	19.1	16	-7.2
930	909	21.1	MB	MB
1140	887	21.1	16	-5.6
1440	856	18.2	60	10.4
1650	834	16.5	64	9.7
2250	778	17.5	16	-8.5
2550	751	15.7	20	-7.1
2950	716	12.0	40	-1.1
3810	646	6.3	19	-15.6
3960	634	6.7	MB	MB
4350	604	5.5	MB	MB
4720	577	3.2	MB	MB
4960	560	3.0	MB	MB
5800	504	-3.3	MB	MB
6190	480	-5.2	MB	MB
7600	400	-15.4	MB	MB
9370	315	-30.2	MB	MB
12700	192	-54.0		
14600	142	-65.2		
15688	100	-71.1		
17420	89	-69.3		
20228	56	-56.2		

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1014	18.2	80	14.7
730	930	11.1	90	9.5
830	918	16.9	33	0.6
970	903	18.7	16	-7.5
1230	876	19.5	MB	MB
1500	850	20.1	MB	MB
2070	794	17.3	16	-8.7
2250	778	17.1	25	-3.0
2550	752	15.5	28	-2.8
2700	738	13.8	51	3.9
3580	664	9.5	18	-13.6
4010	630	10.5	MB	MB
5250	541	0.5	MB	MB
5640	515	-1.3	MB	MB
6370	470	-5.7	MB	MB
6960	441	-10.0	MB	MB
7620	400	-16.1	MB	MB
8720	344	-26.3	MB	MB
9330	316	-29.5	MB	MB
9900	292	-34.5	MB	MB
10370	273	-37.1	MB	MB
12050	213	-51.4		
12770	190	-54.4		
14350	147	-67.2		
15146	129	-69.6		

*Base of 10L5/270°

Ship Crest Aso No. III-17
 Lat. 29.5°N Long. 120.2°W
 Rise Time 1435, 12 September 1949 GCT

Surface Observation at Release

Wind NNW 20 knots

Weather Broken clouds

Clouds 7L5/360°

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1017	18.3	81	15.0
560	951	13.7	67	7.7
960	906	9.8	75	5.6
1070	895	11.7	59	4.0
1170	884	16.8	18	-7.5
1430	859	17.3	MB	MB
2140	790	16.2	18	-8.1
2600	749	13.0	19	-10.0
2850	725	11.1	38	-2.6
3320	686	8.4	24	-10.9
3560	666	8.4	20	-13.2
3850	643	5.5	MB	MB
4020	630	7.2	MB	MB
4230	614	6.7	MB	MB
5800	467	-8.0	MB	MB
7597	400	-16.9	MB	MB
8690	344	-26.8	MB	MB
8800	338	-26.8	MB	MB
10460	267	-42.2		
12930	182	-59.7		
14110	150	-67.3		
15450	120	-72.2		
15800	113	-70.2		
17180	90	-68.1		
17798	81	-64.0		

Ship Crest Aso No. III-18
 Lat. 28.7°N Long. 121.6°W
 Rise Time 0232, 13 September 1949 GCT

Surface Observation at Release

Wind NNW 13 knots

Weather Scattered clouds

Clouds 4L1/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1017	18.8	85	16.2
350	919	11.6	96	11.0
890	914	12.0	94	11.1
1150	886	11.2	79	7.7
1230	878	11.2	60	3.7
1440	857	14.2	23	-6.5
1670	844	15.0	28	-3.2
1700	832	15.0	34	-0.7
1830	819	15.6	20	-7.2
2140	790	15.8	27	-3.1
2430	762	14.0	46	2.3
2580	749	13.4	35	-1.7
2870	724	12.9	45	1.3
2920	719	12.0	50	2.0
3030	712	11.6	48	1.0
3770	650	8.6	21	-12.4
3870	642	9.2	MB	MB
4830	571	2.7	MB	MB
5330	537	-0.7	MB	MB
5890	500	-2.7	MB	MB
6970	435	-11.2	MB	MB
7260	419	-12.0	MB	MB
7614	400	-14.7	MB	MB
8250	367	-20.5	MB	MB
8540	353	-21.8	MB	MB
10780	257	-39.8	MB	MB
13230	177	-57.0		
15000	132	-70.4		
17490	86	-74.7		
17741	82	-72.6		

Ship Crest Asc No. III-19
Lat. 27.9°N Long. 123.1°W
Rise Time 1438, 13 September 1949 GCT

Surface Observation at Release

Wind NNW 14 knots
Weather Scattered clouds
Clouds 1L1/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt</u>
1	1018	19.4	78	15.5
70	1011	18.2	57	9.6
500	960	14.5	73	9.8
1270	875	9.2	59	1.7
1440	858	13.8	26	-5.3
1780	824	13.5	19	-8.5
2170	786	13.2	17	-11.2
2320	773	13.5	17	-11.0
2520	755	12.5	30	-4.5
2850	725	12.7	17	-11.6
3390	680	9.5	MB	MB
3640	660	8.9	MB	MB
4110	622	5.6	MB	MB
4450	597	4.4	MB	MB
5120	550	0.0	MB	MB
5200	544	0.3	MB	MB
5590	518	-2.1	MB	MB
6370	470	-10.1	MB	MB
6510	460	-10.2	MB	MB
7571	400	-20.0	MB	MB
8760	340	-32.1	MB	MB
8880	334	-32.5	MB	MB
12230	236	-53.0		
13070	175	-70.1		
13820	154	-73.2		
15395	118	-69.3		

Ship Crest Asc No. III-20 129
Lat. 29.4°N Long. 124.6°W
Rise Time 0305, 14 September 1949 GCT

Surface Observation at Release

Wind N 14 knots
Weather Scattered clouds
Clouds 1L5/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt</u>
1	1018	19.6	69	13.8
1460	857	6.7	90	5.1
1630	840	15.3	24	-5.1
2050	797	15.0	MB	MB
2350	770	13.8	MB	MB
2470	759	14.2	MB	MB
3170	697	10.6	MB	MB
3340	684	11.0	MB	MB
4120	623	7.0	MB	MB
4340	607	6.7	MB	MB
4490	595	5.1	MB	MB
5030	557	2.5	MB	MB
5200	545	1.0	MB	MB
6150	483	-5.2	MB	MB
6380	470	-7.5	MB	MB
6600	457	-8.7	MB	MB
7612	400	-16.6	MB	MB
9040	326	-28.3	MB	MB
10260	274	-38.1	MB	MB
10640	260	-39.4	MB	MB
12592	194	-53.4		

Ship Crest Asc No. III-21
 Lat. 30.2°N Long. 123.6°W
 Rise Time 1448, 14 September 1949 GCT
Surface Observation at Release
 Wind N 16 knots
 Weather overcast with breaks
 Clouds 9 + L5/u

Ship Crest Asc No. III-22
 Lat. 30.8°N Long. 122.3°W
 Rise Time 0231, 15 September 1949 GCT
Surface Observation at Release
 Wind N 16 knots
 Weather broken clouds
 Clouds 815/u

Alt.	Press.	Temp.	R.H.	Dew Pt.	Alt.	Press.	Temp.	R.H.	Dew Pt.
I	1019	18.7	82	16.6	I	1016	18.5	84	15.7
520	982	15.5	73	10.7	680	938	11.5	97	11.0
1110	893	9.2	93	8.1*	820	923	16.8	44	4.6
1280	875	7.4	98	7.1	930	910	17.2	32	0.4
1430	859	16.8	21	- 5.6	1040	899	16.8	20	- 6.2
1580	845	17.6	MB	MB	1280	874	18.5	MB	MB
2042	800	15.0	MB	MB	1960	806	15.0	MB	MB
2940	719	13.1	MB	MB	2140	789	15.2	MB	MB
3330	687	10.3	MB	MB	2380	767	16.7	MB	MB
3800	649	10.8	MB	MB	3430	677	8.4	MB	MB
4380	603	4.3	MB	MB	3710	654	8.7	MB	MB
4480	596	5.3	MB	MB	4620	585	3.9	MB	MB
5550	523	1.0	MB	MB	5580	519	- 3.6	MB	MB
6700	452	- 9.5	MB	MB	6500	462	- 9.5	MB	MB
6790	447	- 9.5	MB	MB	7330	414	-16.9	MB	MB
7450	410	-14.5	MB	MB	7470	406	-16.9	MB	MB
7625	400	-15.4	MB	MB	7687	400	-17.6	MB	MB
8000	352	-22.7	MB	MB	11850	224	-48.7		
9320	318	-30.2	MB	MB	14020	154	-64.2		
10500	269	-36.8	MB	MB	15960	111	-73.4		
12770	191	-54.7			17552	85	-72.0		
14540	144	-66.3							
15720	118	-70.3							
16320	107	-70.4							
16800	99	-69.6							
19735	61	-57.2							

*Base of 9+ L5/u

Ship Crest Ass No. III-23
 Lat. 31.4°N Long. 120.9°W
 Rise Time 1458, 15 September 1949 GCT
Surface Observation at Release
 Wind NNW 18 knots
 Weather Light drizzle and fog patches
 Clouds 8L5/u

Ship Crest Ass No. III-24
 Lat. 32.1°N Long. 120.5°W
 Rise Time 0235, 16 September 1949 GCT
Surface Observation at Release
 Wind NW 18 knots
 Weather Light fog
 Clouds 10L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1017	16.7	99	16.6
220	992	14.8	100	14.8*
460	964	13.3	97	12.8
630	956	16.6	74	12.1
850	920	19.0	21	-3.8
1010	903	19.0	MB	MB
1190	884	17.5	MB	MB
1240	879	18.6	MB	MB
1040	821	17.0	MB	MB
2300	777	14.0	MB	MB
2750	736	13.1	MB	MB
4170	619	5.7	MB	MB
4390	603	5.5	MB	MB
5270	541	-0.7	MB	MB
5850	502	-6.0	MB	MB
5990	493	-6.5	MB	MB
7595	400	-19.6	MB	MB
9100	324	-29.3	MB	MB
11420	232	-46.2		
11880	217	-48.5		
13300	174	-58.5		
14050	154	-61.3		
14800	136	-66.9		
15700	117	-66.7		
16450	103	-71.1		
18454	74	-67.6		

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1014	16.7	92	15.4
270	983	13.9	88	11.5
540	952	12.7	92	11.4
630	943	17.5	67	9.0
780	926	21.8	34	5.4
1010	901	22.4	28	3.1
1140	887	22.0	26	1.8
1450	857	21.0	26	0.4
1880	814	18.4	MB	MB
2060	797	18.4	MB	MB
2580	751	16.7	MB	MB
3190	699	13.9	MB	MB
3650	661	10.4	MB	MB
3920	640	9.2	MB	MB
4070	628	9.6	MB	MB
4720	579	4.8	MB	MB
5820	505	-4.2	MB	MB
6770	446	-13.5	MB	MB
7605	400	-18.3	MB	MB
11430	232	-48.1		
14020	153	-67.0		
15970	111	-73.0		
17195	90	-70.3		

*Base of 8L5/u

Ship Crest Asc No. III-25
Lat. 32.7°N Long 118.2°W
Rise Time 1432, 16 September 1949 GCT
Surface Observation at Release
 Wind calm
 Weather light fog
 Clouds 10L6/u

<u>Alt.</u>	<u>Press</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1014	16.1	91	14.6
320	977	12.0	95	11.2*
520	954	10.3	97	9.8
580	946	19.7	41	6.1
690	935	21.3	22	-1.2
920	910	19.8	54	10.3
1050	897	19.0	61	8.7
1250	875	21.0	17	-4.5
1880	812	16.1	MB	MB
2480	758	15.7	MB	MB
3490	671	10.1	MB	MB
3680	657	10.1	MB	MB
4540	590	3.7	MB	MB
5910	497	-7.3	MB	MB
6700	450	-14.7	MB	MB
7570	400	-20.4	MB	MB
9150	322	-33.1	MB	MB
9410	309	-34.0	MB	MB
10690	257	-45.8		
12070	207	-55.4		
14410	142	-68.6		
15950	110	-72.2		
17540	84	-69.3		
18000	78	-61.8		
18560	71	-62.3		

*Base of 10L6/u

Ship Crest Asc. No. I-1
 Lat. 34.1°N Long. 119.6°W
 Rise Time 1440, 7 July 1950 GCT
 Surface Observation at Release
 Wind WNW 25 knots
 Weather overcast
 Clouds 10L6/u

Ship Crest Asc. No. I-3
 Lat. 35.6°N Long. 121.3°W
 Rise Time 1410, 8 July 1950 GCT
 Surface Observation at Release
 Wind Calm
 Weather Overcast
 Clouds 10 L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1012.5	13.3	96	12.7
130	997	11.5	96	10.8
300	978	13.7	95	12.9
410	955	17.3	81	14.0
500	955	22.1	61	14.3
740	929	23.1	24	1.6
1100	890	22.5	24	1.0
1400	860	20.8	36	5.2
2350	770	14.7	40	1.3
2800	730	11.5	30	-5.4
3120	702	9.6	48	-0.8
3520	669	6.5	51	-2.8
3860	642	3.6	73	-0.7
4290	609	0.4	83	-2.1
4510	592	-1.1	86	-3.2
4720	577	-2.8	87	-4.7
5080	551	-5.2	89	-6.7
5270	540	-4.6	78	-7.8
5580	517	-8.1	77	-11.4
6070	485	-10.9	81	-13.5
6190	477	-11.2	68	-15.8
6310	470	-11.4	47	-20.4
6450	462	-12.4	38	-23.7
6750	444	-13.8	38	-25.0
7360	409	-18.6	39	-29.1

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1012.1	13.9	94	13.0
330	975	11.4	95	10.6
390	968	12.8	94	11.9
410	966	15.6	93	14.5
470	960	19.8	61	12.2
680	935	18.9	45	5.8
870	916	21.0	44	8.3
1000	902	20.7	49	9.7
1400	862	20.0	43	7.2
1560	845	21.0	41	7.3
1890	813	19.6	36	4.2
2640	745	13.0	51	3.2
3120	703	10.9	36	-3.5
3330	684	9.0	51	-0.5
3560	667	7.6	40	-5.1
3920	638	5.4	62	-1.2
4390	602	1.5	70	-3.4
4710	578	-2.7	78	-5.9
4940	562	-3.5	81	-6.3
5260	540	-5.4	71	-9.8
5530	522	-6.3	46	-16.0
5630	515	-5.6	32	-19.7
5740	507	-6.9	28	-22.3
5860	500	-7.2	MB	MB
6060	488	-9.0	MB	MB
6260	475	-10.0	MB	MB
6720	448	-13.2	MB	MB
6930	436	-14.7	MB	MB
7130	424	-16.5	MB	MB
7550	400	-18.9	MB	MB
7680	393	-19.3	MB	MB
8120	372	-22.9	MB	MB
8430	355	-26.2	MB	MB
8840	335	-28.3	MB	MB
9200	319	-29.8	MB	MB
9470	307	-32.3	MB	MB

Ship Crest Asc. No. I-2
 Lat. 34.8°N Long. 122.0°W
 Rise Time 0315, 8 July 1950 GCT
 Surface Observation at Release
 Wind N W 14 knots
 Weather Scattered clouds
 Clouds 1-L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1011.3	14.8	86	12.5
290	978	12.2	87	11.1
380	967	15.3	86	13.0
470	960	17.4	62	10.1
600	943	17.3	46	5.6
780	923	21.3	29	2.7
1030	898	21.3	21	-1.8
1380	860	20.9	31	3.2
1670	834	21.1	21	-2.0
2070	795	18.7	44	6.3
2415	763	16.4	39	0.6

Ship Crest Asc No. I-4
 Lat. 35.2°N Long. 122.1°W
 Rise Time 0141, 9 July 1950
 Surface Observation at Release
 Wind NNW 21 knots
 Weather Overcast
 Clouds 9 • L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1011.4	14.9	88	12.9
330	973	11.2	95	10.4*
430	962	10.3	98	10.0
460	958	11.4	71	6.4
530	950	17.5	58	9.2
640	937	20.7	21	-2.3
930	906	21.2	MB	MB
1380	858	19.9	22	-2.3
1550	842	19.6	36	4.2
1640	835	18.2	42	5.2
1810	817	17.0	50	6.6
2110	790	15.5	49	4.9
2200	782	14.8	50	4.6
2410	762	14.7	51	4.7
2590	745	13.3	50	2.3
2740	733	12.1	47	1.2
2920	719	11.2	65	4.9
3190	696	8.9	67	3.1
3570	665	6.1	77	2.4
4060	625	2.5	90	1.0
4390	600	1.8	77	-1.8
4580	586	-0.3	75	-4.2
4970	558	-4.2	32	-6.8
5410	527	-8.0	63	-13.7
5680	510	-7.2	31	-21.3
6800	441	-14.7	MB	MB
7370	410	-16.0	MB	MB
7520	400	-19.3	MB	MB
8390	355	-25.1	MB	MB
9450	307	-32.9	MB	MB
10590	260	-37.8	MB	MB

Ship Crest Asc No. I-5
 Lat. 34.1°N Long. 121.2°N
 Rise Time 1641, 9 July 1950 GCT
 Surface Observation at Release
 Wind E 3 knots
 Weather Overcast
 Clouds: 10 L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1015.5	15.8	93	14.7
310	980	14.7	87	12.5
650	937	16.7	91	15.2 *
800	923	16.4	92	15.1
1100	891	16.5	93	15.3
1670	834	13.3	96	12.7
2080	795	12.7	100	12.7
2690	738	8.7	96	8.1
3000	712	7.7	96	7.1
3640	658	4.3	95	3.6
4130	618	0.9	92	-0.3
4590	585	-1.8	89	-3.4
4700	575	-1.7	83	-4.2
4900	562	-3.3	78	-6.6
5000	554	-3.3	78	-6.6
5250	538	-6.1	83	-8.5
5370	529	-6.4	86	-8.4
5650	511	-8.3	86	-10.2
6020	487	-9.2	72	-13.2
6360	467	-10.7	59	-17.1
6550	456	-12.6	71	-16.8
6810	440	-14.1	91	-15.3
7020	428	-15.8	96	-16.3
7150	421	-16.4	87	-18.1
7350	410	-16.2	62	-21.7
7530	400	-17.3	35	-29.1
7680	392	-17.9	MB	MB

*Base of the clouds

* Base of clouds (estimated)

Ship Crest Asc No. I-6
 Lat. 32.6°N Long. 122.3°W
 Rise Time 0221, 10 July 1950 GCT
Surface Observation at Release
 Wind N 6 knots
 Weather Light drizzle
 Clouds 10 L6/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1015.2	15.6	99	15.5
190	992	13.7	99	13.5*
540	953	12.1	100	12.1
620	943	11.0	99	13.9
1120	890	13.1	100	13.1
1200	880	13.8	100	13.8
1770	824	11.5	100	11.5
2140	788	10.7	98	10.4
2720	733	7.8	96	7.2
2930	717	6.2	94	5.3
3230	692	5.6	91	4.3
3470	672	5.3	76	1.4
3690	653	3.6	67	-1.9
4080	622	-0.2	69	-5.2
4220	612	-1.0	56	-8.6
4400	598	-1.2	26	-18.2
4580	585	-1.8	MB	MB
5170	543	-5.8	MB	MB
5840	498	-7.8	MB	MB
5940	492	-9.1	MB	MB
6140	480	-9.2	29	-23.9
6120	463	-11.3	59	-17.7
6980	430	-15.9	78	-18.8
7300	412	-18.0	86	-19.8
7500	400	-19.4	84	-21.4

* Base of Clouds (estimated)

Ship Crest Asc No. I-7
 Lat. 32.8°N Long. 123.9°W
 Rise Time 1425, 10 July 1950 GCT
Surface Observation at Release
 Wind N 14 knots
 Weather Light drizzle
 Clouds 10 L6/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1018.3	15.0	100	15.0
310	982	12.7	100	12.7
670	939	12.3	100	12.3
960	908	14.4	100	14.4
1240	866	13.0	100	13.0
1470	853	12.0	100	12.0
1720	830	11.8	100	11.8
2220	783	11.9	78	6.2*
2760	734	9.5	61	2.4
3210	695	7.4	50	-3.2**

* Beginning doubtful data

** End doubtful data

Ship Crest Asc No. I-8
 Lat. 32.2°N Long. 125.3°W
 Rise Time 0138, 11 July 1950 GCT
Surface Observation at Release
 Wind N 15 knots
 Weather Overcast
 Clouds 10 L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1020.2	15.4	90	13.8
450	967	11.8	94	10.9
910	916	13.7	100	13.7*
1600	844	15.0	72	10.0**
1730	832	14.9	70	9.5
2000	806	14.9	17	-9.9
2180	788	14.0	43	1.7
2490	760	12.0	32	-4.1
2940	720	9.2	57	1.2*
3480	674	5.7	37	-7.8**
3550	669	5.4	33	-9.5
3780	650	3.5	20	-17.3
4070	627	1.5	MB	MB
4230	615	1.5	MB	MB
4560	589	0.0	MB	MB
4960	561	-3.3	MB	MB
5320	536	-6.7	MB	MB
5730	508	-10.6	MB	MB
5920	496	-10.0	MB	MB
6220	477	-11.8	MB	MB
6500	460	-12.7	MB	MB
6720	447	-14.2	MB	MB
6870	438	-14.7	MB	MB
7220	418	-17.2	MB	MB
7550	400	-18.7	MB	MB
8950	330	-29.3	MB	MB

* Beginning missing data

** End missing data

Ship Crest Asc No. I-9
 Lat. 31.9°N Long. 125.6°W
 Rise Time 0340, 11 July 1950 GCT
 Surface Observation at Release
 Wind N 17 knots
 Weather Overcast
 Clouds 10 L5/u

Alt.	Press	Temp	R.H.	Dew Pt
1	1020.5	15.7	89	13.9
270	989	10.7	93	9.6
560	955	8.6	100	8.6
970	909	11.2	100	11.2
1220	882	9.7	100	9.7
1340	870	8.4	96	7.8
1470	856	13.3	46	2.0
1640	839	14.0	25	-5.7
1840	819	13.3	16	-11.9
1990	805	12.5	43	0.3
2500	757	9.5	37	-4.4
2720	737	8.8	46	-2.0
2870	724	7.7	22	-12.7
3180	696	5.5	31	-10.2
3640	658	1.2	41	-10.6
4010	628	0.3	20	-20.5
4790	569	-4.6	MB	MB
5530	518	-11.8	MB	MB
6280	470	-13.3	MB	MB
7160	418	-19.2	MB	MB
7480	400	-20.9	MB	MB
8350	354	-28.6	MB	MB
9680	293	-37.9	MB	MB
10810	249	-44.1		
11260	233	-47.6		
13170	173	-60.7		
14110	148	-66.8		
15240	123	-65.1		
15800	112	-66.5		

Ship Crest Asc No. I-10
 Lat. 30.8°N Long. 124.7°W
 Rise Time 1420, 11 July 1950 GCT
 Surface Observation at Release
 Wind N 15 knots
 Weather Overcast
 Clouds 10 L5/u

Alt.	Press	Temp	R.H.	Dew Pt
1	1021.5*	15.8	91	14.4
350	980	11.9	95	11.1
660	946	10.8	100	10.8
790	930	13.5	100	13.5
1280	877	13.8	94	12.9
1470	857	13.7	70	8.4
1510	854	13.1	67	7.2
1680	837	13.0	54	4.0
1990	806	16.5	18	-7.8
2190	787	15.0	19	-8.3
2500	758	12.0	21	-9.6
2900	722	9.0	25	-9.8
3260	692	5.0	28	-11.8
3580	665	2.7	22	-16.8
3840	645	2.4	MB	MB
3930	639	3.0	MB	MB
4090	625	2.0	MB	MB
4170	619	1.9	MB	MB
4480	595	0.9	MB	MB
4900	565	-1.4	MB	MB
5220	542	-2.5	MB	MB
5360	533	-3.0	MB	MB
5540	520	-3.3	MB	MB
5680	510	-4.7	MB	MB
6040	488	-5.5	MB	MB
6450	463	-9.1	MB	MB
7160	422	-15.6	MB	MB
7580	400	-19.1	MB	MB
8570	349	-28.3	MB	MB
8890	333	-28.4	MB	MB
9750	295	-33.5	MB	MB
10190	278	-35.7	MB	MB
10460	267	-38.3	MB	MB

*Pressure calibration chart lost so these pressures not rechecked.

Ship Crest Asc No. I-11
 Lat. 30.7°N Long. 123.3°W
 Rise Time 0210, 12 July 1950 GCT
 Surface Observation at Release
 Wind N 15 knots
 Weather overcast
 Clouds 9 + L5/u

Ship Crest Asc No. I-14
 Lat. 33.1°N Long. 118.7°W
 Rise Time 1908, 13 July 1950 GCT
 Surface Observation at Release
 Wind NW 5 knots
 Weather overcast
 Clouds 9 + L5/u

Alt	Press	Temp	R.H.	Dew Pt
I	1018.7	15.8	86	13.4
360	977	12.4	92	11.2
490	963	11.6	93	10.5
570	953	17.1	88	15.2
930	910	17.4	81	14.2
1190	888	18.8	59	10.7
1430	862	17.8	49	7.0
1570	848	19.7	22	-2.6
2150	791	15.0	24	-5.3
2480	761	12.4	28	-5.6
2810	732	9.5	32	-6.3
3000	715	8.2	26	-10.2
3177	700	8.2	30	-8.3
3480	675	6.3	34	-8.4
3630	662	5.5	34	-9.1
3790	650	5.4	25	-13.0
4440	600	1.8	MB	MB
4590	588	1.3	MB	MB
4910	565	1.3	MB	MB
5100	532	-1.0	MB	MB
5890	500	-3.3	MB	MB
6420	466	-8.3	MB	MB
7100	425	-13.6	MB	MB
7610	400	-17.8	MB	MB
8190	367	-22.7	MB	MB
8610	348	-26.2	MB	MB
9000	332	-27.8	MB	MB
9450	310	-30.6	MB	MB
10100	282	-35.8	MB	MB
11090	245	-42.0		

Alt	Press	Temp	R.H.	Dew Pt
I	1011.7	18.3	87	16.2
170	993	15.2	84	12.5
420	964	12.9	91	11.5*
480	957	13.1	92	11.8
560	950	12.9	87	10.8
660	938	20.3	72	15.1
740	929	25.3	45	12.6
890	912	28.0	17	0.8
1260	874	26.9	22	3.5
1480	854	27.1	20	2.3
2140	764	19.0	28	0.2
2760	735	15.5	33	-0.7
3040	712	13.3	19	-9.8
3270	693	14.5	MB	MB
3630	665	14.7	MB	MB
3900	643	11.6	MB	MB
4230	618	11.7	MB	MB
5140	554	5.1	MB	MB
5610	522	0.6	MB	MB
5680	517	0.6	MB	MB
6100	491	-3.2	MB	MB
6370	475	-5.6	MB	MB
6520	466	-6.2	MB	MB
6760	451	-9.2	MB	MB
7260	423	-12.8	MB	MB
7600	405	-13.8	MB	MB
7680	400	-14.8	MB	MB
8050	382	-16.3	MB	MB
8250	372	-18.4	MB	MB
8510	358	-20.2	MB	MB
8680	350	-20.9	34	-32.6
9350	313	-26.8	43	-35.7
9810	299	-29.3	48	-36.9
10240	281	-32.3	53	-38.7*
10400	275	-34.5	M	M
10660	258	-36.1	M	M
11070	250	-38.8	M	M
11350	240	-40.2		
14200	155	-62.9		
15720	120	-72.9		
16360	108	-69.5		
17240	93	-69.3		
17570	88	-67.2		
18000	82	-68.6		
18600	74	-65.8		

Ship Crest Asc No. I-12
 Lat. 31.5°N Long. 122.0°W
 Rise Time 1500, 12 July 1950

* High winds and heavy sea prevented successful balloon release.

Ship Crest Asc No. I-13
 Lat. 32.2°N Long. 120.3°W
 Rise Time 0300, 13 July 1950 GCT

High winds and heavy sea prevented successful balloon release.

*Beginning missing R.H.

Ship Crest Asc. No. I-15
 Lat. 33.4°N Long. 117.9°W
 Rise Time 0155, 14 July 1950 GCT
Surface Observation at Release
 Wind SW 1 knot
 Weather Overcast
 Clouds 10 L5/u

Ship Crest Asc. No. I-16
 Lat. 33.5°N Long. 119.7°W
 Rise Time 1452, 14 July 1950 GCT
Surface Observation at Release
 Wind SW 2 knots
 Weather overcast
 Clouds 10L6/u

Alt.	Press	Temp	R.H.	Dew Pt
I	1009.8	19.2	85	16.6
80	1001	17.3	87	15.2
260	978	14.7	93	13.5
400	962	14.8	93	13.7*
520	950	15.3	87	13.2
610	940	20.4	72	15.2
750	925	22.1	60	14.0
920	907	24.9	45	12.2
1040	894	26.3	26	5.4
1120	855	26.1	19	0.8
1800	820	25.1	19	0.0
2180	786	22.1	28	2.8
2370	770	21.4	27	1.8
2800	731	16.8	34	0.9
3210	697	14.1	21	-7.8
3610	665	11.1	48	0.6
3760	652	9.6	41	-2.9
4040	631	10.2	22	-10.5
4210	618	9.9	MB	MB
4380	605	7.8	MB	MB
4620	587	6.8	MB	MB
5400	534	1.1	MB	MB
5810	507	-2.5	MB	MB
6870	444	-10.7	MB	MB
7650	400	-15.6	MB	MB
8310	367	-20.2	MB	MB
8780	344	-22.4	MB	MB
9800	299	-31.4	MB	MB
10070	287	-32.8	MB	MB
10560	267	-37.4	MB	MB
10940	252	-40.1	MB	MB
12960	185	-56.4		
13910	160	-63.3		
14945	135	-71.5		

* Base of clouds.

Alt.	Press	Temp	R.H.	Dew Pt
I	1010.7	15.6	97.	15.2
160	989	13.2	97	12.7*
480	955	12.2	100	12.2
580	944	13.5	97	13.1
690	934	14.7	60	7.0
730	927	23.1	47	11.2
870	913	28.1	30	8.9
1070	892	28.5	31	9.8
1550	844	24.2	23	1.8
2070	797	20.5	22	-1.9
2230	781	21.8	20	-2.1
2590	749	18.7	42	5.6
3100	705	13.8	49	3.3
3210	694	12.2	51	2.4
3340	684	12.2	40	-0.9
3450	677	11.7	32	-4.5
3800	650	12.2	23	-8.8
4570	592	7.3	MB	MB
5000	561	3.0	MB	MB
5780	509	-3.2	MB	MB
6850	444	-12.0	MB	MB
7290	419	-13.5	MB	MB
7630	400	-16.1	MB	MB
8300	368	-20.8	MB	MB
8500	357	-21.6	MB	MB
9400	317	-28.1	MB	MB
10164	282	-35.6	MB	MB

* Base of clouds

Ship Crest Asc. No. I-17
 Lat. 32.6°N Long. 121.2°W
 Rise Time 0254, 15 July 1950 GCT
 Surface Observation at Release
 Wind NW 14 knots
 Weather Overcast
 Clouds 1016/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1010.7	14.7	91	13.2
230	982	12.5	95	11.8*
560	947	11.0	99	10.8
620	940	11.2	32	-4.8
710	929	24.8	20	0.4
800	920	26.9	21	2.8
1480	852	23.9	27	3.8
1980	803	20.3	26	0.3
2130	790	22.7	19	-2.1
2480	758	19.4	32	2.4
2800	731	18.2	27	-1.0
3350	684	13.4	21	-8.4
3590	666	11.5	MB	MB
4720	579	5.1	MB	MB
4980	562	3.0	MB	MB
5730	512	-2.8	MB	MB
6740	451	-9.7	MB	MB
6920	440	-9.7	MB	MB
7150	427	-11.7	MB	MB
7380	414	-13.9	MB	MB
7630	400	-15.6	MB	MB
9130	325	-26.5	MB	MB
9510	310	-28.6	MB	MB
10320	276	-36.2	MB	MB
10980	251	-44.0		

*Base of the clouds

Ship Crest Asc. No. I-18
 Lat. 32.8°N Long. 122.6°W
 Rise Time 1518, 15 July 1950 GCT
 Surface Observation at Release
 Wind NW 14 knots
 Weather Overcast
 Clouds 1016/u

Alt.	Press.	Temp.	R.H.	Dew Pt
1	1012.0	15.0	91	13.5
610	940	10.6	100	10.6
700	932	10.5	100	10.5
770	924	14.5	42	1.8
890	910	24.3	19	-0.7
990	900	26.0	MB	MB
1170	882	25.5	19	0.3
1910	810	20.0	24	-1.0
2060	797	21.6	20	-2.2
2610	747	16.6	46	5.0
3160	700	13.8	43	1.6
3300	688	12.7	35	-2.3
3710	655	9.3	40	-3.5
4070	627	5.9	42	-6.0
4480	596	4.2	23	-15.0
4700	580	5.6	MB	MB
4910	566	5.1	MB	MB
5300	540	1.9	MB	MB
5900	500	-3.8	MB	MB
6190	483	-4.1	MB	MB
6920	439	-10.3	MB	MB
7640	400	-14.8	MB	MB
8020	380	-16.9	MB	MB
8520	355	-21.2	MB	MB
8800	342	-23.0	MB	MB
9370	315	-27.8	MB	MB
10850	256	-39.4	MB	MB

Ship Crest Asc. No. I-19
 Lat. 33.1°N Long. 121.6°W
 Rise Time 0205, 16 July 1950 GCT
Surface Observation at Release
 Wind NW 14 knots
 Weather Overcast
 Clouds 10 L5/u

Ship Crest Asc. No. I-20
 Lat. 33.7°N Long. 119.7°W
 Rise Time 1625, 16 July 1950 GCT
Surface Observation at Release
 Wind W 10 knots
 Weather Overcast
 Clouds 10 L6/u

Alt.	Press.	Temp.	R.H.	Dew Pt
I	1011.0	14.7	91	13.2
290	977	11.9	96	11.2*
520	952	11.0	98	10.7
570	947	10.7	98	10.4
800	922	26.9	18	0.7
940	905	26.7	MB	MB
1170	883	25.9	19	0.6
1520	348	23.2	23	0.9
1690	832	22.2	21	-1.1
1790	821	23.3	19	-1.6
2170	786	20.7	34	4.4
2470	759	18.3	50	7.8
3070	708	14.1	50	3.8
3740	653	8.2	64	1.8
4050	630	6.8	50	-2.8
4380	604	4.0	59	-3.2
4470	598	2.9	45	-7.8
4770	576	4.5	23	-14.8
5130	552	2.4	MB	MB
6130	487	-4.6	28	-20.3
6690	453	-7.8	54	-15.4
6870	442	-9.5	39	-20.8
7120	428	-11.3	55	-18.3
7640	400	-15.1	43	-24.8
8200	372	-18.4	34	-30.3
11750	223	-46.9		
12220	207	-49.5		
13270	177	-57.8		

* Base of clouds

Alt.	Press.	Temp.	R.H.	Dew Pt
I	1012.1	15.6	96	15.0
170	992	13.7	93	12.5
240	983	14.2	92	12.8*
610	941	12.2	94	11.4
720	929	11.8	94	10.9
800	920	13.9	71	8.8
880	912	21.5	49	10.4
1030	897	23.9	19	-1.1
1170	881	23.4	22	-0.6
1530	847	21.5	22	-1.0
1720	829	21.3	22	-1.2
1910	812	20.8	20	-2.8
1990	804	20.8	21	-2.2
2340	770	17.8	51	7.6
2700	738	14.8	55	6.0
2940	717	13.9	51	4.0
3900	639	6.9	38	-6.4
4140	620	4.8	46	-5.8
4380	603	2.8	50	-6.5
4500	595	1.4	46	-8.9
4770	574	0.2	29	-15.7
4930	563	0.2	24	-17.9
5020	557	1.1	MB	MB
5540	522	-1.4	MB	MB
6270	476	-7.6	MB	MB
6710	450	-9.3	MB	MB
7030	432	-11.5	MB	MB
7600	400	-14.3	MB	MB
7930	384	-17.4	MB	MB
8700	345	-24.3	MB	MB

* Base of clouds

Ship Crest Asoc. No. I-21
Lat. 33.3°N Long. 118.3°W
Rise Time 0215, 17 July 1950 GCT
Surface Observation at Release
 Wind Calm
 Weather Overcast
 Clouds 10L5/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1010.6	18.8	78	14.7
680	933	12.2	99	12.1
750	928	11.7	100	11.7
810	918	20.5	52	10.4
970	903	21.5	24	0.2
1160	882	22.5	22	-0.2
1670	832	21.5	22	-1.0
1940	805	20.2	44	7.7
2090	792	18.9	52	8.8
2780	730	13.7	62	6.6
3100	702	12.4	56	3.9
3610	661	8.6	51	-0.9
3990	632	5.9	53	-2.8
4170	618	4.2	74	0.0
4240	612	3.7	76	-0.2
4570	587	1.0	80	-2.1
4700	578	0.2	83	-2.3
4890	564	-1.5	84	-3.8
4980	558	-0.3	36	-13.6
5270	538	-0.6	26	-17.7
5870	500	-4.2	MB	MB
7040	429	-11.0	MB	MB
7270	417	-11.7	MB	MB
7600	400	-14.5	MB	MB
8110	375	-19.5	MB	MB
8630	348	-25.2	MB	MB
8790	338	-24.7	MB	MB
9230	318	-27.3	MB	MB
9790	297	-30.8	MB	MB
10320	275	-35.8	MB	MB
10900	252	-40.0	MB	MB
12320	203	-51.5		
13200	178	-57.2		

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Ship Crest Asoc. No. I-22
Lat. 32.9°N Long. 117.7°W
Rise Time 1547, 17 July 1950 GCT
Surface Observation at Release
 Wind Calm
 Weather Overcast
 Clouds 10L5/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1012.0	18.8	85	16.1
660	937	12.7	93	11.4*
810	920	12.9	93	10.9
880	912	19.5	76	15.1
970	902	21.2	69	15.3
1110	888	21.0	63	13.8
1300	868	22.9	26	2.4
1500	850	22.9	23	0.8
1730	827	21.5	19	-3.0
2110	791	19.0	43	6.2
2480	758	16.4	51	6.3
2890	722	14.0	49	3.5
3990	633	5.9	63	-0.6
4250	613	4.0	70	-0.9
4500	594	2.1	68	-3.2
4660	582	1.9	23	-17.0
5080	553	1.5	MB	MB
5630	516	-1.5	MB	MB
6070	488	-4.7	MB	MB
6200	480	-4.5	MB	MB
6400	469	-6.4	MB	MB
6860	442	-6.0	MB	MB
7620	400	-15.6	MB	MB
8400	360	-22.6	MB	MB
8610	350	-20.7	MB	MB
9000	332	-24.5	MB	MB
9460	313	-26.8	MB	MB
10740	260	-37.3	MB	MB
11180	245	-39.5	MB	MB
13280	177	-55.8		
14630	143	-64.3		
16070	113	-71.8		
17460	89	-65.8		

* Base of clouds

Ship Crest Asc. No. I-23
Lat. 32.2°N Long. 118.7°W
 Rise Time 0350, 18 July 1950
Surface Observation at Release
 Wind W 6 knots
 Weather Overcast
 Clouds 10 L 5/u

Ship Crest Asc. No. I-24
Lat. 32.0°N Long. 119.2°W
 Rise Time 1445, 18 July 1950
Surface Observation at Release
 Wind S 4 knots
 Weather Broken Clouds
 Clouds 6 L 6/u

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Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1012.0	18.1	77	14.0
140	996	14.8	87	12.5
350	972	13.1	91	11.7
680	934	11.2	98	10.8
750	926	10.5	61	3.4
900	910	19.5	35	3.7
1080	891	20.2	18	-4.8
1200	878	20.7	39	6.3
1300	868	20.2	50	9.5
1420	855	19.2	61	11.5
1750	824	19.0	42	5.8
2190	784	16.4	49	5.7
2480	756	15.2	38	1.0*
2640	741	13.9	Miss	Miss
3140	698	10.2	Miss	Miss
3220	692	9.5	40	-3.4**
3510	668	7.5	56	-0.7
3590	662	7.5	57	-0.4
3760	648	7.6	34	-7.2
3950	634	7.7	31	-8.3
4330	605	4.0	30	-11.9
4730	575	3.6	23	-15.6
5270	538	0.0	ME	ME
5930	496	-3.5	MB	MB
7120	425	-11.7	MB	MB
7590	400	-16.2	MB	MB
7700	394	-17.2	MB	MB
8260	366	-19.5	MB	ME
9600	303	-31.4	MB	MB
10770	257	-39.6	MB	MB
11020	248	-40.8		
11740	222	-47.2		
12700	192	-54.6		

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1013.0	16.8	96	15.2
110	1000	14.4	96	13.7
780	926	11.2	100	11.2
830	918	16.6	94	15.6
970	904	18.7	90	17.0
1270	873	20.3	45	8.1
1600	840	19.2	43	6.4
1850	815	18.7	46	6.9
2260	777	16.2	36	1.2
2460	758	15.0	52	5.3
2620	745	14.8	34	-0.8
2770	732	13.9	33	-2.0
3240	691	10.1	38	-3.5
3400	678	9.2	57	1.2
3500	669	8.5	49	-1.5
3570	664	8.1	56	-0.1
3940	636	6.3	55	-2.0
4280	610	3.7	54	-4.7
4800	573	2.4	22	-17.1
4970	561	2.2	MB	MB
5500	525	-0.4	MB	MB
6230	479	-5.6	MB	MB
6530	460	-7.5	MB	MB
7610	400	-14.9	MB	MB
8610	353	-22.4	MB	MB
9280	318	-27.5	MB	MB
10040	286	-33.9	MB	MB
10630	262	-37.5	MB	MB
11810	220	-45.2		
12600	195	-51.1		
13600	167	-58.8		
14610	142	-66.2		

* Beginning Missing R.H.

** End Missing R.H.

Ship Crest Asc. No. I-25
 Lat. 31.3 N Long. 120.6°W
 Rise Time 0215, 19 July 1950
 Surface Observation at Release
 Wind N 0 knots
 Weather Scattered Clouds
 Clouds 2 L 5/u

Ship Crest Asc.No. I-26
 Lat. 30.5°N Long. 121.4°W
 Rise Time 1431, 19 July 1950
 Surface Observation at Release
 Wind N 2 knots
 Weather Overcast
 Clouds 10 L 5/u

Alt.	Press	Temp.	R.H.	Dew Pt.
1	1013.0	20.3	62	12.8
300	978	13.7	87	11.6
640	942	11.5	92	10.3
820	922	10.5	92	9.3
960	907	12.5	21	-9.2
1090	892	21.2	MB	MB
1320	867	20.3	20	-3.3
1800	821	18.5	48	7.3
2650	743	13.5	52	3.9
2930	718	12.5	46	1.2
3410	678	9.2	38	-1.4
3600	663	7.9	45	-3.3
3900	639	6.0	46	-4.7
4070	627	5.4	27	-12.0
4400	600	4.0	32	-11.2
4600	586	3.5	30	-12.4
4760	575	2.7	24	-15.8
5180	547	0.1	26	-17.3
5360	535	-1.4	35	-14.8
5940	495	-5.5	31	-19.8
6330	471	-7.0	29	-22.0
6930	433	-12.1	MB	MB
7590	400	-16.8	33	-29.3
8290	365	-22.7	15	-50.7
8960	333	-28.4	49	-35.8
9320	317	-30.0	44	-38.3
10760	259	-37.7	MB	MB
10900	252	-40.3		
11500	232	-43.8		
12400	202	-51.7		
13800	162	-63.2		
14850	135	-70.7		
15700	118	-73.9		
15900	114	-72.8		
16250	107	-74.3		
17370	89	-67.5		
17600	86	-67.7		
19900	58	-60.2		
20860	50	-56.2		

Alt.	Press	Temp.	R.H.	Dew Pt.
1	1016.2	17.5	82	14.4
120	1003	16.0	81	12.7
510	957	12.2	93	11.2
700	935	11.9	93	10.7
840	920	10.7	96	10.1*
1180	883	9.1	100	9.1
1220	880	7.5	86	5.3
1240	877	8.4	47	-2.2
1310	870	10.4	17	-13.6
1410	860	17.8	MB	MB
1660	835	19.0	MB	MB
2400	765	17.7	14	-10.2
2550	752	15.6	27	-3.2
2990	713	13.5	33	-2.4
3560	666	9.3	40	-3.5
3820	645	7.7	28	-9.6
4450	598	4.2	24	-14.5
4830	571	1.1	37	-11.9
5230	540	-0.8	25	-18.3
6210	480	-6.8	24	-23.9
6410	460	-7.6	MB	MB
7190	423	-14.4	MB	MB
7420	410	-15.7	MB	MB
7600	400	-16.9	MB	MB
8160	370	-22.5	MB	MB
8400	356	-24.3	B	MB
9110	325	-26.3	MB	MB
9440	310	-29.0	MB	MB
9980	293	-31.5	MB	MB
11000	248	-39.4	MB	MB
11500	231	-43.3		

* Base of clouds

Ship Crest Asc.No. I-27
 Lat. 30.7°N Long. 120.3°W
 Rise Time 0205, 20 July 1950
 Surface Observation at Release
 Wind NNW 4 knots
 Weather Broken clouds
 Clouds 2 L 1/u; 6 M 4/u

Ship Crest Asc.No. II-2
 Lat. 34.4°N Long. 120.4°W
 Rise Time 1545, 8 Aug. 1950
 Surface Observation at Release
 Wind W 5 knots
 Weather Dry haze over Land to North
 Clouds

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1016.2	18.6	78	14.8
760	930	11.4	93	10.3
1020	902	10.4	97	9.9
1180	887	18.3	23	-3.1
1420	861	20.5	16	-6.1
1770	827	19.8	MB	MB
2200	787	19.4	MB	MB
2740	737	16.2	17	-8.8
3610	664	10.0	33	-5.5
3700	657	9.7	34	-5.3
3960	636	7.4	27	-10.3
4290	611	5.1	28	-11.2
4560	591	3.4	31	-12.1
4860	570	1.3	32	-13.5
5210	546	-0.7	29	-16.4
5810	507	-5.7	24	-21.2
6080	490	-4.9	MB	MB
7630	400	-17.3	MB	MB
8290	365	-23.1	MB	MB
8820	340	-27.0	MB	MB
9190	323	-28.2	MB	MB
10350	274	-36.4	MB	MB
11090	246	-41.5		

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1018.0	17.9	73	13.0
130	1002	13.8	72	8.9
300	935	15.6	70	10.2
440	967	18.9	38	4.3
620	947	21.4	32	4.1
910	916	21.4	15	-6.2
1070	898	20.5	15	-6.9
1220	884	19.6	19	-4.6
1370	867	18.5	18	-6.2
2030	803	12.6	56	4.1
2130	795	13.7	41	0.3
2360	773	11.8	27	-6.6
2530	758	11.0	33	-4.6
2670	745	9.8	28	-7.8
2800	733	8.8	47	-1.8
3170	700	7.4	18	-15.4
3400	682	6.5	MB	MB
3700	657	5.3	MB	MB
4300	610	1.7	MB	MB
4500	595	0.9	MB	MB
5160	548	-4.4	MB	MB
6360	470	-12.6	MB	MB
6700	446	-15.5	29	-29.5
7120	425	-18.0	34	-30.0
7550	400	-22.3	34	-33.9

Ship Crest Asc.No. II-1
 Lat. 33.3°N Long. 118.2°W
 Rise Time 0223, 8 Aug. 1950
 Surface Observation at Release
 Wind Calm
 Weather Clear
 Clouds

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1015.2	18.3	81	15.5*
130	1000	17.6	M	M
410	967	25.0	M	M
1100	894	20.3	29	1.8**
2090	795	13.3	45	2.2
2320	775	11.3	30	-5.1
2430	765	14.0	MB	MB
2760	736	13.6	MB	MB
3490	674	7.6	30	-8.7
4180	618	1.8	45	-8.8
4830	570	-4.6	36	-17.5
5090	552	-3.3	MB	MB

* Beginning of Missing PH
 ** End of Missing RH

Ship Crest Asc.No. II-3
 Lat. 35.7°N Long. 121.6°W
 Rise. Time 0242, 9 Aug. 1950
Surface Observation at Release
 Wind NW 16 knots
 Weather Clear
 Clouds

Ship Crest Asc. No. II-4
 Lat. 36.9°N Long. 122.7°W
 Rise. Time 1545, 9 Aug. 1950
Surface Observation at Release
 Wind N 10 knots
 Weather Overcast
 Clouds 10 L 6/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1017.3	15.6	31	12.3
210	990	12.9	36	10.6
250	964	14.0	32	11.0
460	963	17.2	55	10.6
750	932	17.8	34	1.8
800	923	18.5	22	-3.5
1170	887	19.0	24	-1.3
1380	865	17.7	24	-3.0
1500	852	16.8	24	-3.0
2140	790	12.2	31	-4.4
2420	763	10.2	26	-8.4
2750	734	7.7	32	-7.3
2910	720	6.8	26	-11.3
2970	713	6.7	26	-11.4
3320	684	3.8	26	-13.8
3980	630	2.2	MB	MB
4650	580	-3.8	MB	MB
4990	556	-5.0	MB	MB
6100	483	-14.4	MB	MB*
7190	416	-22.9	M	M
7470	400	-26.2	M	M
8420	350	-33.5	M	M
9200	313	-38.4	M	M

* Beginnig of missing RH

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1019.4	14.9	84	12.2
90	1009	12.4	66	10.2*
320	983	10.5	90	9.3
370	977	9.7	93	8.7
440	968	10.5	92	9.3
710	935	8.9	93	7.8
790	927	9.7	64	3.2
880	918	8.0	50	-1.8
1120	891	12.6	34	-2.7
1200	883	15.2	29	-2.6
1690	833	13.0	27	-5.4
2450	760	9.4	MB	MB
3800	642	-0.9	MB	MB
3980	630	-0.9	MB	MB
5350	526	-9.2	MB	MB
7430	400	-26.4	MB	MB
7970	373	-29.7	MB	MB
8980	322	-37.9	MB	MB
9550	297	-41.2		
10510	257	-45.7		
10900	244	-46.4		
11150	233	-48.0		
12870	179	-48.1		

* Base of Clouds

Ship Crest Asc. No. II-5
Lat. 37.6°N Long. 123.6°W
Rise. Time 0259, 10 Aug. 1950
Surface Observation at Release
 Wind WNW 24 knots
 Weather Clear
 Clouds

Ship Crest Asc.No. II-7 146
Lat. 36.3°N Long. 126.5°W
Rise. Time 0215, 11 Aug. 1950
Surface Observation at Release
 Wind WNW 1 knots
 Weather Overcast
 Clouds 10 L 5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1017.0	15.3	80	11.0
220	990	13.0	93	11.9
570	950	11.7	88	9.8
790	926	18.1	47	6.7
1100	892	17.5	25	-2.7
1420	860	15.7	34	0.0
1920	810	11.7	25	-7.6
2360	770	10.1	21	-11.2
2850	725	7.4	MB	MB
4050	625	-2.5	MB	MB
4340	603	-3.5	MB	MB
4910	560	-8.0	MB	MB
5500	519	-11.5	MB	MB
5670	507	-13.5	MB	MB
6040	483	-15.1	MB	MB
6660	445	-19.4	MB	MB
7440	400	-26.3	MB	MB
7790	382	-28.3	MB	MB
9520	297	-41.7		
10770	246	-47.9		
12140	200	-49.2		

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1020.4	17.4	82	14.3
710	938	11.3	97	10.9*
990	908	10.2	100	10.2
1200	886	10.4	80	7.2
1280	877	11.5	75	7.2
1510	853	11.5	62	4.5
2100	795	9.0	45	-2.2
2640	746	7.1	18	-12.5
3390	680	5.0	MB	MB
3600	662	3.0	20	-17.7
3850	642	0.7	51	-14.4
4340	603	-1.5	28	-17.6
5260	537	-8.8	25	-25.2
5590	515	-11.0	MB	MB
7460	400	-26.0	MB	MB
7750	385	-28.3	MB	MB
9360	305	-41.8		
10250	268	-49.0		
10970	240	-53.2		
11700	215	-50.2		
12100	202	-50.8		
13000	175	-50.0		
13580	160	-52.0		

Ship Crest Asc.No. II-6
Lat. 36.8°N Long. 125.3°W
Rise. Time 1556, 10 Aug. 1950
Surface Observation at Release
 Wind NW 2 knots
 Weather Overcast
 Clouds 10 L 6/u

* Base of Clouds

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1019.4	16.8	85	14.3
370	975	14.3	86	12.0
500	927	10.2	94	9.3
1060	898	8.5	88	6.7
1230	879	13.4	58	5.3
1850	818	11.4	31	-5.0
2120	792	10.3	43	-1.0
2590	749	8.8	26	-9.6
2840	726	7.1	36	-6.9
3650	650	1.2	24	-17.2
3970	632	0.7	MB	MB
5920	492	-12.2	MB	MB
6110	480	-14.1	32	-27.2
6310	468	-15.4	46	-24.3
6890	427	-21.6	50	-20.2
7470	400	-24.0	42	-33.3

Ship Crest Aso.No. II-8
 Lat. 35.6°N Long. 128.1°W
 Rise. Time 1515, 11 Aug. 1950
 Surface Observation at Release
 Wind WNW 5 knots
 Weather Overcast
 Clouds 10 L 5/u

Ship Crest Aso.No. II-10
 Lat. 33.9°N Long. 126.6°W
 Rise. Time 1525, 12 Aug. 1950
 Surface Observation at Release
 Wind N 19 knots
 Weather Overcast
 Clouds 10 L 5/u

Alt.	Press	Temp	R.H.	Dew Pt.
1	1022.5	19.2	73	14.2
150	1004	15.3	85	12.8
520	961	11.9	96	11.3*
770	933	10.5	97	10.0
1130	894	10.6	71	5.6
1370	868	12.7	35	-10.9
1780	828	10.9	37	-3.2
1980	807	10.0	26	-8.5
2980	714	4.9	25	-13.3
3490	672	3.2	26	-14.4
3630	660	1.9	30	-13.8
3800	647	0.7	27	-16.2
4640	582	-5.0	MB	MB
5450	524	-10.4	MB	MB
5690	508	-10.9	MB	MB
5940	491	-12.6	MB	MB
7400	400	-25.7	MB	MB
9730	290	-43.8		
10710	250	-50.6		
11700	214	-53.9		
12150	200	-50.4		

* Base of Clouds

Ship Crest Aso.No. II-9
 Lat. 34.4°N Long. 127.9°W
 Rise. Time 0205, 12 Aug. 1950
 Surface Observation at Release
 Wind N 5 knots
 Weather Overcast
 Clouds 10 L 5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1022.0	18.3	80	14.8
650	946	11.9	95	11.1*
870	922	11.0	94	10.1
940	915	9.3	79	5.8
1070	900	13.8	56	5.2
1200	887	14.5	43	2.2
1740	831	13.6	29	-4.0
2150	792	10.7	30	-6.2
2320	776	10.3	23	-9.8
3430	679	4.5	33	-10.3
3570	667	4.5	25	-13.7
4570	588	-2.8	32	-17.2
4780	573	-5.0	32	-19.2
4940	561	-6.2	30	-20.8
5900	495	-13.3	MB	MB
6270	472	-16.0	MB	MB
6800	440	-19.8	MB	MB
6930	432	-20.8	MB	MB
7500	400	-25.4	MB	MB
8120	367	-30.2	MB	MB
9340	307	-40.8		
10400	263	-47.7		
10810	247	-50.4		
11450	224	-55.5		
12940	177	-53.3		
13500	162	-55.2		
14090	148	-54.8		
15740	114	-60.2		
17550	85	-61.0		

* Base of Clouds

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1022.7	19.1	82	16.0
80	1011	17.0	79	13.4*
680	943	11.7	96	11.1*
900	919	10.7	96	10.1
1140	893	12.0	69	6.5
1210	886	13.7	62	6.6
1540	852	13.5	35	-1.6
1970	809	10.9	27	-7.3
2260	783	9.7	33	-5.8
2800	733	7.8	22	-12.6
3470	675	3.0	24	-15.6
3640	661	2.6	27	-14.5
4140	621	-0.3	32	-15.0
4470	595	-2.3	31	-17.2
4990	556	-6.5	31	-20.8
5190	542	-8.4	29	-23.3
6170	477	-14.2	MB	MB
6370	465	-16.2	MB	MB
7500	400	-25.6	MB	MB

* Base of Clouds

Ship Crest Asoc.No. II-11
Lat. 34.5°N Long. 125.2°W
Rlse. Time 0304, 13 Aug. 1950
Surface Observation at Release
 Wind N 28 knots
 Weather Overcast
 Clouds 10 L 5/u

Ship Crest Asoc.No. II-13
Lat. 35.7°N Long. 122.5°W
Rlse. Time 0240, 14 Aug. 1950
Surface Observation at Release
 Wind NW 23 knots
 Weather Broken Clouds
 Clouds 9 L 6/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1020.4	17.2	87	15.0
400	974	12.2	98	11.0*
600	950	12.0	84	9.4
700	939	18.2	56	9.1
1670	838	14.5	20	-8.1
2350	773	11.0	28	-6.7
2870	725	7.2	25	-11.4
3030	712	7.0	22	-13.2
3180	698	5.0	MB	MB
3930	637	1.5	MB	MB
4570	587	-5.1	MB	MB
5350	532	-8.2	MB	MB
5749	505	-11.0	MB	MB

* Base of Clouds

Ship Crest Asoc.No. II-12
Lat. 35.2°N Long. 123.8°W
Rlse. Time 1502, 13 Aug. 1950
Surface Observation at Release
 Wind
 Weather
 Clouds

<u>alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1016.5	15.6	95	14.8
100	1006	14.4	98	14.1
390	972	14.5	99	14.3
630	945	21.0	64	14.0
1043	900	21.5	39	7.0
1870	816	16.8	24	-3.8
2230	783	14.1	34	-1.4
2390	768	13.5	34	-2.0
2500	758	13.2	29	-4.3
3190	698	7.6	29	-9.2
3700	655	4.5	26	-13.2
4070	625	1.3	MB	MB
4740	575	-1.9	MB	MB
5170	544	-5.3	MB	MB
5450	526	-6.6	MB	MB
6140	487	-11.4	MB	MB
6250	474	-12.8	MB	MB
6900	436	-17.9	37	-29.1
7540	400	-23.6	51	-30.9
8100	370	-27.2	50	-34.5
8730	338	-32.7	61	-37.7
9270	314	-36.5	67	-40.4
9500	303	-38.7	70	-42.1
9880	288	-42.7		
10310	269	-46.0		

Unable to make successful release
 of radiosonde because of high
 winds.

Ship Crest Asc.No. II-14
Lat. 33.3°N Long. 122.9°W
Rlse. Time 1554, 15 Aug. 1950
Surface Observation at Release
 Wind NW 5 knots
 Weather Overcast
 Clouds 10 L 6/u

119
Ship Crest Asc.No. II-15
Lat. 32.6°N Long. 124.2°W
Rlse. Time 0300, 16 Aug. 1950
Surface Observation at Release
 Wind NW 6 knots
 Weather Overcast
 Clouds 10 L 6/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1017.5	16.1	89	14.3
210	992	12.8	92	11.6
390	972	12.5	95	11.7*
440	967	12.2	95	11.4
550	955	12.8	78	9.1
670	942	22.0	21	-1.2
780	930	23.2	26	2.8
1040	903	22.5	35	6.4
1210	885	22.2	22	-0.4
1800	825	17.2	20	-5.9
2040	802	18.2	MB	MB
2930	722	11.6	MB	MB
3830	648	7.8	MB	MB
4600	588	1.0	MB	MB
5970	494	-8.5	MB	MB
7300	416	-18.8	MB	MB
7594	400	-21.6	MB	MB
8120	372	-26.2	MB	MB
8300	362	-26.7	MB	MB
9720	295	-36.0	MB	MB
10000	284	-38.6	MB	MB
11380	232	-47.7		
12910	182	-60.2		
13750	160	-60.4		
14070	152	-62.6		
14680	138	-61.0		
17690	86	-58.9		
20600	54	-48.4		

* Base of Clouds

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1016.9	17.7	93	16.6
160	997	15.2	96	14.6*
430	965	13.6	98	13.3
560	951	14.5	91	13.1
720	933	20.4	50	9.7
1044	900	21.1	38	6.3
1070	895	21.7	24	0.4
1150	887	20.9	27	1.3
1470	855	18.4	22	-3.7
1690	834	18.2	MB	MB
1930	811	17.6	MB	MB
2260	781	17.1	MB	MB
2400	768	16.3	MB	MB
2460	762	16.1	23	-4.9
2730	738	13.9	45	2.2
3450	676	7.7	54	-1.0
3650	660	7.1	54	-1.5
3760	651	6.5	48	-3.7
4120	622	2.7	45	-8.0
4260	612	2.5	38	-10.3
4360	604	1.4	35	-12.3
4920	564	-3.1	43	-13.8
5030	557	-4.2	52	-12.5
5150	548	-4.7	36	-17.4
5270	540	-5.6	54	-13.3
5430	530	-6.7	41	-17.7
5820	503	-8.8	31	-22.8
6570	456	-14.7	35	-26.7
6900	437	-17.5	71	-21.5
7561	400	-20.8	84	-22.8
8070	375	-25.2	92	-26.1
8950	328	-33.4	100	-33.4
9850	290	-37.5	74	-40.4
10511	263	-41.8		

* Base of Clouds

Ship Crest Asc.No. II-16
 Lat. 31.8°N Long. 125.9°W
 Rise Time 1555, 16 Aug. 1950
Surface Observation at Release
 Wind N 13 knots
 Weather Light Rain
 Clouds . 9L6/u; 4M5/u

Ship Crest Asc.No. II-17
 Lat. 30.6°N Long. 124.1°W
 Rise Time 0207, 17 Aug. 1950
Surface Observation at Release
 Wind Calm
 Weather Light Fog
 Clouds 10L6/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1019.3	17.8	95	17.0
270	986	15.1	100	15.1
370	975	14.7	97	14.2
640	945	19.3	56	10.4
970	909	20.2	24	-0.8
1350	870	18.9	24	-2.0
1990	807	16.7	46	5.1
2580	753	11.2	49	0.9
3060	710	8.2	56	0.0
3190	700	7.0	64	0.7
3340	686	6.2	70	1.2
3500	673	5.4	68	0.0
3670	659	4.7	74	0.5
4770	575	-4.2	92	-5.3
5080	553	-4.8	95	-5.5
5170	547	-6.2	97	-6.6
5340	535	-6.7	95	-7.3
5460	527	-9.3	98	-9.6
6300	472	-13.2	93	-14.1
7600	398	-21.7	94	-22.3
8400	355	-27.2	93	-23.0
9270	315	-34.1	96	-34.5
9780	292	-38.9	98	-39.2
10080	280	-41.0		
10500	263	-42.3		
11520	225	-49.9		
11900	212	-52.1		
12350	198	-55.2		
12850	183	-53.5		
13300	170	-56.0		
15071	129	-62.1		

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1017.2	18.9	84	16.6
100	1005	14.9	98	14.6*
270	984	14.3	100	14.3
370	973	14.3	97	13.8
430	967	10.8	85	8.4
650	942	21.2	34	4.8
960	907	21.7	20	-2.2
1120	890	21.4	45	9.0
1800	822	17.6	30	0.0
2260	779	14.0	48	3.2
2540	764	12.8	55	4.0
3177	700	8.5	41	3.9
3490	673	6.0	43	-5.6
3600	664	5.5	54	-3.0
4500	594	-2.2	80	-5.2
4970	560	-2.5	25	-19.8
5570	518	-6.4	MB	MB
7557	400	-20.5	MB	MB
8572	348	-28.2	MB	MB

*Base of clouds

Ship Crest Asc.No. II-18
Lat. 31.1°N Long. 122.7°W
Rise. Time 1530, 17 Aug. 1950
Surface Observation at Release
 Wind N 12 knots
 Weather Overcast
 Clouds 10 L 6/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1018.9	17.8	90	16.2
160	1000	14.0	96	13.3
360	973	13.3	97	12.8
560	956	23.9	28	4.4
720	937	22.9	29	4.0
1140	892	22.4	46	10.3*
1470	859	21.7	M	M
2190	790	18.5	M	M
3930	642	6.8	31	-9.1**
4240	618	4.7	38	-8.7
4590	592	0.6	43	-10.5
5080	556	-3.0	45	-13.2
5500	527	-5.0	30	-19.8
6460	467	-11.0	35	-23.4
7100	429	-16.4	36	-28.0
7630	400	-20.0	MB	MB
8700	344	-26.7	MB	MB
11300	237	-48.3		
12060	211	-51.2		

* Beginning of missing RH

** End of missing RH

Ship Crest Asc.No. II-19
Lat. 31.8°N Long. 121.3°W
Rise. Time 0230, 18 Aug. 1950
Surface Observation at Release
 Wind
 Weather
 Clouds

Radiosonde observation not taken
 because of power failure.

Ship Crest Asc.No. II-20
Lat. 31.8°N Long. 121.2°W
Rise. Time 0402, 18 Aug. 1950
Surface Observation at Release
 Wind WNW 14 knots
 Weather Overcast
 Clouds 10 L 6/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1016.0	17.2	94	16.2
340	977	13.8	92	12.6
410	969	24.5	17	-2.1
670	941	27.0	15	-1.7
1250	879	25.4	22	2.3
2080	800	20.8	27	1.3
2360	775	18.0	23	-3.3
3160	704	12.0	19	-10.8
3560	670	9.5	28	-8.0
4020	635	6.4	29	-10.2
4540	595	4.7	29	-11.7
5260	544	-1.8	23	-20.2
5880	503	-5.8	MB	MB
6160	486	-9.3	MB	MB
6530	463	-12.3	MB	MB
7070	431	-15.0	MB	MB
7640	400	-19.2	MB	MB

Ship Crest Asc.No. II-21
Lat. 32.5°N Long. 119.8°W
Rise. Time 1524, 18 Aug. 1950
Surface Observation at Release
 Wind WNW 16 knots
 Weather Overcast
 Clouds 10 L 6/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1015.0	16.7	36	14.3
30	1012	14.3	97	13.8
350	975	12.0	100	12.0
430	965	14.0	68	8.2
500	957	12.7	53	3.4
550	953	24.0	52	13.6
610	946	27.9	32	9.7
830	923	29.3	26	3.0
1170	887	28.0	23	5.0
1380	865	27.7	MB	MB
1960	810	22.9	24	1.3
3000	716	12.9	33	-3.0
4230	617	3.3	29	-13.0
4420	603	4.2	MB	MB
4700	533	3.9	MB	MB
5540	525	-4.1	MB	MB
5800	508	-5.6	MB	MB
6000	495	-7.8	MB	MB
6350	473	-10.7	MB	MB
6920	439	-13.6	MB	MB
7350	415	-17.2	MB	MB
7631	400	-18.5	MB	MB
7900	390	-19.6	39	-30.0
8611	350	-26.7	54	-33.2
9490	310	-31.5	78	-34.1
10000	287	-36.7	77	-39.2
10320	274	-40.1	79	-42.3
12199	207	-51.7		

Ship Crest Asc.No. II-22
Lat. 32.9°N Long. 118.9°W
Rise. Time 2220, 18 Aug. 1950
Surface Observation at Release
 Wind WNW 13 knots
 Weather Broken Clouds
 Clouds 9 L 5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1013.0	17.2	87	15.1
230	985	13.8	88	11.9
300	979	13.6	89	11.8
370	969	24.4	46	12.2
540	952	31.0	25	8.8
670	938	32.1	19	5.7
970	906	33.1	19	6.6
1100	893	32.8	21	7.8
1320	824	25.1	24	3.3
2260	784	21.6	22	-0.9*
3360	688	11.6	M	M
3730	658	2.0	42	4.1**
4430	604	2.2	56	-5.7
4820	576	-0.9	60	-7.7
5110	555	-2.7	27	-19.0
5200	549	-2.2	27	-18.6
5670	517	-5.5	30	-20.2
6360	474	-8.8	30	-23.2
7030	434	-14.7	33	-27.3
7640	400	-13.3	47	-27.2

* Beginning of missing RH

** End of missing RH

Ship Crest Asc.No. III-1
Lat. 35.9°N Long. 121.8°W
Rise. Time 0315, 7 Sept. 1950
Surface Observation at Release
 Wind
 Weather
 Clouds

Sounding not evaluated as
 release point missing.

Ship Crest Asc.No. III-2
 Lat. 35.5°N Long. 123.1°W
 Rise. Time 1516, 7 Sept. 1950
 Surface Observation at Release
 Wind SE 1 knots
 Weather Overcast
 Clouds 10 L 5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1012.6	16.6	79	12.9
830	918	9.3	96	8.7*
1020	897	8.2	100	8.2
1060	892	7.5	100	7.5
1230	875	19.0	30	1.1
1640	833	13.0	29	-0.1
2220	779	15.0	26	-4.3
3130	698	8.6	MB	MB
3260	686	7.7	MB	MB
3600	660	6.0	MB	MB
3790	645	4.8	MB	MB
4020	627	1.9	MB	MB
4260	608	0.6	32	-14.1
5030	551	-6.0	50	-14.7
5680	507	-10.4	37	-23.5
6260	471	-14.6	MB	MB
6680	445	-17.1	MB	MB
7090	421	-20.3	42	-29.9
7300	409	-22.3	47	-30.6
7460	400	-23.7	50	-31.2
7820	381	-26.8	53	-33.5
8280	356	-30.4	66	-34.7
8520	345	-33.3	72	-36.6
9650	293	-40.0	75	-42.7

* Base of Clouds

Ship Crest Asc.No. III-3
 Lat. 34.9°N Long. 124.4°W
 Rise. Time 0242, 8 Sept 1950
 Surface Observation at Release
 Wind SW 6 knots
 Weather Overcast
 Clouds 10 L 5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1012.2	16.7	79	13.0
840	916	7.6	91	6.4*
Data Missing -----				
1490	847	17.6	MB	MB**
1820	816	15.5	MB	MB
2390	762	13.5	MB	MB
2730	732	10.8	MB	MB
3070	702	8.7	MB	MB
3430	672	5.5	20	-15.6
3870	636	1.8	29	-14.2
4140	615	-0.5	29	-16.2
4570	583	-4.5	31	-19.0
5360	527	-11.5	71	-15.7
5640	506	-13.0	72	-17.0
5990	485	-14.3	56	-21.1
6640	445	-18.0	31	-31.0
7430	400	-25.5	MB	MB
8290	355	-32.5	MB	MB
8790	330	-35.5	MB	MB
9130	315	-38.2	MB	MB
9580	294	-40.5		
10040	275	-40.8		

* Beginning Missing Data

** End Missing Data

Ship Crest Aso.No. III-4
 Lat. 34.3° N Long. 125.9° W
 Rise. Time 1514, 8 Sept. 1950
Surface Observation at Release
 Wind NW 16 knots
 Weather Overcast
 Clouds 10 L 5/u

Ship Crest Aso.No. III-5
 Lat. 33.5° N Long. 127.3° W
 Rise. Time 0243, 9 Sept. 1950
Surface Observation at Release
 Wind NW 12 knots
 Weather Overcast
 Clouds 10 L 5/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1015.6	16.9	76	12.7
440	964	12.0	85	9.6
860	917	9.0	94	8.1
1110	390	7.5	100	7.5
1270	673	11.0	31	-5.4
1480	853	15.6	29	-2.2
1700	831	14.6	31	-2.2
1900	804	13.0	22	-3.1
2240	778	12.5	22	-8.5
2930	716	7.3	49	-2.6
3500	667	4.1	29	-12.2
3850	640	1.1	52	-13.6
4010	627	0.5	25	-17.1
4100	620	0.2	MB	MB
4270	607	-1.2	MB	MB
4990	555	-5.1	MB	MB
6330	466	-15.2	MB	MB
6580	451	-17.1	MB	MB
7440	401	-24.7	MB	MB
7980	374	-27.2	42	-36.2
8660	338	-33.0	92	-33.9
9550	298	-39.4	70	-42.8
10180	273	-44.6		
11090	236	-47.6		
12480	192	-46.2		
14000	152	-52.0		

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1018	18.6	80	15.1
960	910	9.8	90	8.2*
1190	883	7.9	94	7.0
1260	875	6.4	96	5.8
1320	870	8.4	69	3.0
1390	863	13.9	47	2.8
1520	850	13.9	22	-7.4
1660	836	14.3	21	-7.6
1770	825	13.6	22	-7.6
2220	783	10.6	48	0.2
2390	766	9.0	51	-0.5
3100	703	4.0	54	-10.3
No Level -----				
3420	675	1.0	41	-10.7
3800	645	-2.1	80	-5.1
3900	636	-3.3	82	-6.0
4090	621	-4.1	76	-7.7
4280	605	-3.6	27	-19.8
5450	521	-10.6	MB	MB
6050	481	-15.9	MB	MB
6300	466	-16.7	33	-29.1
7240	410	-25.1	48	-32.9
7420	400	-26.3	66	-30.8
8030	367	-29.6	94	-30.5
9240	309	-39.1	79	-41.3
9560	295	-41.5		
9710	288	-41.6		
10400	260	-47.2		
10520	255	-45.0		
11050	236	-47.1		

* Base of Clouds

Ship Crest Asoc.No. III-6
Lat. 32.6°N Long. 129.2°W
Rlso. Time 1525, 9 Sept. 1950
Surface Observation at Release
 Wind NW 9 knots
 Weather Overcast
 Clouds 10L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1020.4	19.2	64	12.3
1180	887	8.4	93	7.3*
1410	861	6.8	97	6.3
1480	856	3.7	100	3.7
1590	845	10.7	22	-10.0
1650	838	12.7	MB	MB
1710	830	13.2	MB	MB
2190	785	12.0	MB	MB
2500	757	10.7	22	-10.0
2940	718	8.0	31	-8.0
3400	678	5.7	23	-13.7
3920	637	2.2	34	-12.0
4400	600	-1.0	26	-18.0
4800	571	-1.2	MB	MB
5160	547	-3.7	MB	MB
6080	484	-11.7	MB	MB
6540	456	-15.0	MB	MB
7000	429	-17.6	MB	MB

*Base of Clouds

Ship Crest Asoc.No. III-7
Lat. 32.0°N Long. 130.3°W
Rlso. Time 0231, 10 Sept. 1950
Surface Observation at Release
 Wind NNW 13 knots
 Weather Overcast
 Clouds 10L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1021.0	20.3	79	16.6
500	962	14.4	92	13.1*
900	918	11.4	94	10.4
1570	847	8.5	97	8.1
1690	835	8.7	95	8.0
1920	812	7.5	80	4.3
1970	809	8.2	75	4.1
2060	799	7.9	73	3.4
2470	761	5.9	58	-1.6
2560	753	4.2	42	-7.6
2650	744	5.1	50	-4.4
2830	728	4.3	29	-12.1
3000	712	6.1	27	-11.5
3490	671	4.0	26	-13.7
3800	646	1.8	MB	MB
4140	618	1.5	MB	MB
4620	582	-1.4	MB	MB
5600	515	-8.0	MB	MB
5830	499	-8.7	MB	MB
6000	488	-10.0	MB	MB
6230	474	-10.6	MB	MB
6900	434	-16.1	MB	MB
7510	400	-21.0	MB	MB
8110	368	-26.3	MB	MB
8310	357	-27.6	MB	MB
10040	279	-40.9	MB	MB
10340	267	-42.3		
10640	255	-45.5		
11810	214	-54.6		

*Base of Clouds

Ship Crest Asc.No. III-8
Lat. 31.3°N Long. 131.9°W
Rlse. Time 1502, 10 Sept. 1950
Surface Observation at Release
 Wind WSW 5 knots
 Weather Broken Clouds
 Clouds 3 L 5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1022	20.3	65	13.5
610	950	14.0	82	11.0
1340	873	7.6	99	7.5
1450	862	13.0	65	6.6
1600	847	13.0	57	4.7
1750	832	12.4	56	4.4
1810	826	13.1	39	-0.4
2140	793	11.7	56	3.2
2450	764	9.6	53	-0.4
2540	757	8.6	43	-3.2
3050	708	7.4	40	-5.3
3300	688	3.8	40	-8.5
3600	663	2.2	36	-11.3
3770	649	0.2	35	-13.5
4130	620	-0.2	30	-15.6
4450	595	-0.8	MB	MB
5210	542	-6.1	MB	MB
6240	475	-11.8	MB	MB
7520	400	-21.6	MB	MB
8320	359	-27.5	MB	MB
8800	334	-30.8	MB	MB
9330	310	-34.3	MB	MB
10320	269	-42.9		

Ship Crest Asc.No. III-9
Lat. 30.5°N Long. 133.5°W
Rlse. Time 0212, 11 Sept. 1950
Surface Observation at Release
 Wind NE 10 knots
 Weather Scattered Clouds
 Clouds 3 M 3/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1020.0	22.1	70	16.4
720	937	14.0	85	11.5
840	925	13.8	84	11.1
1490	867	9.4	88	7.5
1740	832	11.7	61	4.4
1900	817	11.4	46	0.3
2130	796	10.7	52	1.3
2370	773	9.6	57	1.6
2750	739	7.0	42	-5.0
3070	710	5.2	28	-11.7
3560	669	3.4	25	-14.7
3810	649	3.4	MB	MB
4150	621	1.1	MB	MB
5050	556	-4.6	MB	MB
6010	491	-12.5	MB	MB
6550	457	-17.7	MB	MB
6750	445	-18.0	MB	MB
7500	402	-25.0	MB	MB
7732	389	-26.0	MB	MB

Ship Crest Asc.No. III-10
Lat. 29.6°N Long. 135.4°W
Rlse. Time 1459, 11 Sept. 1950
Surface Observation at Release
 Wind NE 8 knots
 Weather Virga
 Clouds 10 L 5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1020.4	19.5	90	17.8
330	982	14.9	93	13.7
710	933	12.1	95	11.3
1730	830	7.5	100	7.5
1930	810	5.6	99	5.5
2040	800	7.5	94	6.6
2230	781	5.8	66	0.0
2640	743	4.7	34	-9.7
3130	700	2.5	MP	MB
3350	680	3.5	MB	MB
3660	655	2.3	MB	MB
4620	580	-5.0	MB	MB
5090	547	-8.3	MB	MB
6450	457	-20.1	MB	MB
7430	400	-26.5	MB	MB

Ship Crest Asoc.No. III-11
Lat. 28.7°N Long. 137.1°W
Rise. Time 0335, 12 Sept. 1950
Surface Observation at Release
 Wind E 8 knots
 Weather Broken Clouds
 Clouds 8 L 3/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1019.0	21.7	75	17.0
290	985	17.8	88	15.0
500	962	15.5	93	13.5
640	945	15.4	95	12.9
1300	873	10.8	92	9.5*
1450	859	9.8	95	9.0
1800	823	9.5	85	7.1
2000	804	8.3	51	-1.2
2060	798	8.9	46	-2.0
2610	747	6.0	33	-9.0
2740	735	6.9	27	-10.8
2880	723	6.5	MB	MB
3000	711	7.2	MB	MB
3190	695	6.5	MB	MB
3330	683	5.9	MB	MB
3470	671	5.3	MB	MB
3970	630	2.1	MB	MB
4340	566	-4.1	MB	MB
5200	542	-7.5	MB	MB
5550	518	-9.2	MB	MB
6340	467	-15.1	MB	MB
7180	417	-19.9	MB	MB
7490	400	-22.2	MB	MB
8620	343	-31.6	MB	MB
9180	316	-35.7	MB	MB
9720	292	-41.3		
10000	280	-42.9		

* Base of Clouds

Ship Crest Asoc.No. III-12
Lat. 27.7°N Long. 136.5°W
Rise. Time 1510, 12 Sept. 1950
Surface Observation at Release
 Wind E 9 knots
 Weather Broken Clouds
 Clouds 9 L 5/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1019.9	21.9	69	16.0
1110	895	12.0	76	7.9
1710	833	7.5	92	6.3*
1940	811	6.4	64	0.2
2070	798	10.5	34	-4.7
2400	768	9.4	32	-6.5
2790	732	10.4	33	-5.2
3100	704	9.5	34	-5.5
3430	678	7.3	35	-7.1
3610	663	6.5	36	-7.8
4560	589	-0.2	38	-12.8**
5010	557	-3.9	M	M
5800	503	-8.7	M	M
6170	480	-10.1	M	M
6590	465	-12.7	M	M
7050	428	-16.1	M	M
7550	400	-21.0	M	M
8380	357	-27.7	M	M
8760	339	-29.4	M	M
9410	310	-33.7	M	M
10270	276	-40.6		
11000	245	-45.0		

* Base of Clouds

** Begining of missing RH

Ship Crest Asc.No. III-13
 Lat. 26.3°N Long. 135.3°W
 Rise. Time 0229, 13 Sept. 1950
Surface Observation at Release
 Wind E 10 knots
 Weather Scattered clouds
 Clouds 4 L 3/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1018.6	22.4	77	18.2
760	931	15.3	88	13.4
1030	901	13.5	79	9.7
1410	864	11.1	84	8.5
1690	838	8.9	59	1.4*
1770	829	12.5	44	0.6
2430	766	10.8	Miss	Miss
2500	752	12.6	Miss	Miss
4180	613	3.5	24	-15.1**
4570	587	2.1	MB	MB
5620	514	-5.2	MB	MB
5880	499	-6.5	MB	MB
6640	452	-12.5	MB	MB
6840	440	-12.5	MB	MB
7570	400	-13.9	MB	MB
9200	320	-30.7	MB	MB
10300	273	-40.5		

* Beginnig of Missing RH

** End of Missing RH

Ship Crest Asc.No. III-14
 Lat. 25.1°N Long. 134.5°W
 Rise. Time 1500, 13 Sept. 1950
Surface Observation at Release
 Wind
 Weather
 Clouds

Instrument failure

Ship Crest Asc.No. III-15
 Lat. 25.7°N Long. 133.2°W
 Rise. Time 0300, 14 Sept. 1950
Surface Observation at Release
 Wind
 Weather
 Clouds

Instrument failure

Ship Crest Asc.No. III-16
 Lat. 26.6°N Long. 131.6°W
 Rise. Time 1514, 14 Sept. 1950
Surface Observation at Release
 Wind NNE 10 knots
 Weather Broken Clouds
 Clouds 9 L 5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1021.6	22.2	51	11.5
1100	896	10.8	73	6.2
1620	843	5.5	92	4.3
1750	830	6.3	49	3.6
1930	813	10.8	24	-3.9
2230	784	13.5	MB	MB
2430	765	11.6	MB	MB
2540	755	11.8	MB	MB
2800	732	10.6	MB	MB
2990	716	10.4	MB	MB
3640	661	6.5	MB	MB
4070	627	6.0	MB	MB
4300	610	3.2	MB	MB
4660	583	1.2	MB	MB
5060	555	0.8	MB	MB
5330	523	-2.0	MB	MB
6310	474	-7.3	MB	MB
6620	455	-9.9	MB	MB
7610	400	-16.9	MB	MB
9400	312	-30.5	MB	MB
10280	275	-38.2	MB	MB
11360	235	-47.2		
12080	211	-52.5		
13000	182	-59.1		

Ship Crest Asc.No. III-17
Lat. 27.6°N Long. 129.6°W
Rlse. Time 0244, 15 Sept. 1950
Surface Observation at Release
 Wind ENE 8 knots
 Weather Scattered Clouds
 Clouds 1 L 5/u; 1 L 9/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1021.7	21.7	88	15.5
690	943	14.3	87	11.5
1220	885	10.2	83	7.5
1560	850	8.8	53	-0.2*
2190	788	13.5	M	M
2310	776	13.1	M	M
2930	720	10.0	M	M
3320	687	7.5	M	M
3770	652	5.3	M	M
3970	636	4.8	M	M
4300	610	3.7	M	M
4540	591	1.8	M	M
4630	585	1.9	M	M
5210	545	-0.2	M	M
5700	512	-3.2	M	M
6320	473	-8.9	M	M
6660	453	-10.8	M	M
7140	425	-15.3	M	M
7600	400	-18.5	M	M
7960	381	-20.3	M	M
8670	347	-26.2	M	M
9390	313	-31.3	M	M
10110	282	-38.8	M	M
11550	228	-48.3		

* Beginning of Missing RH

Ship Crest Asc.No. III-18
Lat. 28.5°N Long. 127.9°W
Rlse. Time 1514, 15 Sept. 1950
Surface Observation at Release
 Wind NNE 6 knots
 Weather Scattered Clouds
 Clouds 3 L 2/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1020.5	20.6	79	16.8
570	956	15.5	93	14.3
670	943	14.6	88	12.7
970	911	12.4	88	10.5
1340	872	10.9	85	8.4
1550	850	12.0	68	6.3
2270	781	8.4	43	-3.4
2490	760	9.9	42	-2.4*
3400	680	4.8	M	M
3800	648	5.8	M	M
4520	592	0.1	M	M
5200	543	-6.4	M	M
5550	520	-5.3	M	M
6460	463	-9.1	M	M
7550	400	-18.0	M	M

* Beginning of missing RH

Ship Crest Asc.No. III-19
Lat. 28.9°N Long. 127.0°W
Rlse. Time 0245, 16 Sept. 1950
Surface Observation at Release
 Wind NNW 8 knots
 Weather Precipitation in sight
 Clouds 1 L 1/u; 2 M 1/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1018.4	21.1	88	19.0
1000	908	13.2	95	12.5
1250	880	12.8	96	12.2
1520	852	12.2	64	5.6
1860	818	10.1	79	6.6
2070	798	9.4	63	2.7
2320	774	7.9	74	3.5*
2560	752	8.5	M	M
3170	698	7.8	M	M
3340	684	8.5	M	M
3970	633	4.4	M	M
4100	622	4.1	M	M
4530	589	0.8	M	M
5260	540	-2.2	M	M
5820	502	-6.6	M	M

* Beginning of missing RH

Ship Crest Asc.No. III-20
 Lat. 29.8°N Long. 125.1°W
 Rise. Time 1525, 16 Sept. 1950
Surface Observation at Release
 Wind WNW 8 knots
 Weather Scattered Clouds
 Clouds 3 L 1/u

Ship Crest Asc.No. III-21
 Lat. 30.6°N Long. 123.7°W
 Rise. Time 0220, 17 Sept. 1950
Surface Observation at Release
 Wind W 9 knots
 Weather Scattered Clouds
 Clouds 1 L 2/u; 1 M 2/u; 2 M 3/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1015.9	21.1	83	18.1
140	1000	17.8	94	16.8
570	951	14.5	92	13.2
1030	900	13.1	90	11.5
1550	846	11.1	91	9.7
1800	821	10.5	80	7.2
2130	789	8.1	89	6.4
2440	760	8.0	43	-3.8
2900	720	6.7	27	-11.0
3230	691	5.8	MB	MB
3380	678	5.6	MB	MB
3830	641	2.5	MB	MB
4170	614	1.1	MB	MB
4490	591	-1.5	MB	MB
4930	559	-2.0	MB	MB
5770	502	-6.8	MB	MB
6440	461	-12.1	MB	MB
7350	409	-20.8	MB	MB
7500	400	-20.9	MB	MB
7590	395	-21.3	MB	MB
8160	365	-25.8	MB	MB
9790	291	-40.0	MB	MB
11820	213	-56.0		
13460	165	-61.7		
15480	119	-62.5		
18370	75	-58.6		
19670	61	-53.4		
20530	53	-53.0		
21140	48	-49.5		
21910	43	47.9		
22380	40	43.2		
23650	33	-40.6		
25580	25	-38.3		

Alt.	Press.	Temp.	R.H.	Dew Pt.
1	1012.6	20.0	80	16.5
280	982	17.4	85	14.8
890	913	13.4	72	8.4
990	902	13.0	63	6.2
1140	884	11.7	65	5.3
1370	861	9.6	72	4.9
1570	840	9.3	79	5.9
1740	823	8.0	82	5.1
2090	789	4.8	92	3.7
2270	773	5.6	80	2.5
2400	760	7.8	30	-8.6
2550	747	8.6	23	-11.3
3320	680	4.4	MB	MB
3590	657	2.6	MB	MB
3950	629	-0.2	MB	MB
4100	616	-0.7	MB	MB
4900	557	-6.5	MB	MB
5160	540	-6.8	MB	MB
5380	524	-5.5	MB	MB
5920	489	-9.2	MB	MB
6360	463	-11.9	MB	MB
7210	412	-19.6	MB	MB
7440	400	-20.5	MB	MB
8450	348	-29.5	MB	MB
9490	300	-38.8	MB	MB
10180	271	-43.4		

Ship Crest Asc.No. III-22
Lat. 31.3°N Long. 122.2°W
Rlse. Time 1459, 17 Sept. 1950
Surface Observation at Release
 Wind WNW 4 knots
 Weather Precipitation in Sight
 Clouds 3 L 3/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1012.8	20.2	79	16.5
110	1000	16.6	82	13.6
240	984	16.6	83	13.7
550	950	13.9	88	12.0
920	908	12.5	87	10.4
1530	845	9.2	82	6.3
1890	808	6.0	77	2.3
2050	793	5.0	79	1.8
2200	778	4.2	85	2.0
2600	741	3.4	67	-2.1
2740	728	3.2	37	-10.0
3440	668	-1.1	40	-13.0
3670	648	-1.0	25	-18.5
4930	554	-7.6	MB	MB
5650	504	-11.5	MB	MB
5900	488	-11.7	MB	MB
6310	463	-15.0	MB	MB
6450	454	-14.2	MB	MB
7390	400	-20.6	MB	MB
8740	332	-31.3	MB	MB

Ship Crest Asc.No. III-23
Lat. 32.0°N Long. 120.9°W
Rlse. Time 0312, 18 Sept. 1950
Surface Observation at Release
 Wind Calm
 Weather Scattered Clouds
 Clouds 1 L 2/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
1	1013.5	20.0	69	14.1
570	948	14.1	89	12.4
1000	901	12.2	77	8.3
1240	877	10.7	80	7.4
1610	833	8.6	74	4.3
1920	808	6.8	64	0.5
2170	783	6.0	75	1.9
2350	766	5.0	74	0.8
2910	714	1.7	66	-4.0
3640	651	-1.7	51	-10.4
3900	630	-2.5	31	-17.2
4230	604	-1.6	MB	MB*
4580	579	-3.7	M	M
5190	536	-7.5	M	M
5570	511	-10.7	M	M
6040	482	-10.5	M	M
6910	429	-17.0	M	M
7410	400	-20.8	M	M
9170	313	-35.3	M	M

* Beginning of missing RH

Ship Crest Asc.No. III-24
Lat. 32.7°N Long. 119.2°W
Rlse. Time 1500, 18 Sept. 1950
Surface Observation at Release
 Wind
 Weather
 Clouds

Sounding unsuccessful because
 of interference.

Ship - Horizon Asc. No. 1
Lat. 30.2°N Long. 119.2°W
 Rise Time 1546, 28 July 1950 GCT
Surface Observation at Release
 Wind WSW 11 Knots
 Weather Lgt. fog SE Quad.
 Clouds 9 + 15/315°

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
5	1017	17.2	95	15.3
220	992	-13.8	90	12.2*
570	952	12.5	95	11.7
620	946	11.6	96	10.9
760	930	21.3	36	15.6
850	923	23.1	47	11.3
2380	779	15.9	46	4.4
3350	686	7.4	55	-1.0
3830	647	5.3	29	-5.4
4370	605	2.9	MB	MB
4720	579	-0.1	27	-16.3
5000	567	-1.4	37	-14.1
5300	539	-4.8	37	-17.2
6200	480	-9.3	35	-21.9
6870	440	-14.8	47	-23.6
7080	428	-16.6	35	-28.5
7510	404	-17.1	MB	MB
7590	400	-18.1	MB	MB
7830	388	-18.9	MB	MB
8040	376	-22.1	MB	MB
9230	319	-31.0	MB	MB
9480	308	-32.2	MB	MB

* Base of clouds

Ship - Horizon Asc. No. 2
Lat. 28.8°N. Long. 120.4°W
 Rise Time 0305, 29 July 1950 GCT
Surface Observation at Release
 Wind NNW 19 Knots
 Weather Overcast
 Clouds 10L5/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
5	1018	17.4	84	14.7
450	966	12.9	86.	10.6*
520	959	11.8	90	10.2
670	942	10.9	90	9.3
860	921	21.1	17	-5.1
1040	901	20.8	17	-4.9
1540	850	19.7	39	5.3
2030	802	15.4	56	6.7
2910	722	11.2	54	2.3
3410	680	8.2	28	-9.2
6160	482	-9.4	23	-26.6
7170	422	-14.9	MB	
7580	400	-18.9	MB	
9360	312	-34.6	MB	
10730	256	-40.7		
12200	204	-52.2		
13570	165	-61.5		
14630	139	-66.2		
14900	133	-66.8		
16110	109	-69.0		
20200	56	-60.9		
22160	41	-57.1		

* Base of clouds

Ship- Horizon Asc. No. 3
 Lat. 27.30N Long. 121.6°W
 Release Time 1525, 28 July 1950 GCT

Surface Observation at Release

Wind NNW 19 Knots
 Weather Broken clouds
 Clouds 8L²/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R. H.</u>	<u>Dew Pt.</u>
5	1018	18.9	81	15.6
400	971	14.6	83	11.7*
670	942	14.2	88	12.2
760	931	18.3	48	7.2
870	920	19.6	31	2.1
1210	883	19.6	20	-3.9
1640	840	18.5	37	3.6
2370	770	12.9	24	-7.2
2720	738	12.9	18	-10.8
3360	684	8.6	43	-3.2
4030	630	3.8	46	-6.7
4850	569	-1.4	29	-17.1
5220	543	-3.1	57	-10.4
6270	475	-10.0	27	-25.4
7030	436	-14.7	49	-23.0
7580	400	-19.3	42	-29.0
8310	361	-25.0	48	-32.8
9230	318	-32.6	42	-41.2
9550	304	-33.1	42	-41.6
10500	266	-40.3	MB	
11090	243	-42.2		
13660	164	-58.6		

* Base of clouds

Ship - Horizon Asc. No. 4
 Lat. 27.5°N Long. 121.5°W
 Release Time 0315, 30 July 1950 GCT

Surface Observation at Release

Wind NNW 18 Knots
 Weather Broken clouds
 Clouds 6L5/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
5	1015	18.6	84	15.8
470	962	14.4	93	13.3 ¹
600	947	12.5	98	12.2
660	942	11.6	99	11.5
710	935	14.4	79	10.8
730	933	15.6	78	11.8
1070	897	17.7	25	-2.5
1560	846	16.0	25	-4.9 ²
D a t a M i s s i n g				
2300	775	15.2	30	-2.2 ³
2970	715	11.4	35	-3.6
3420	678	9.6	22	-11.1
3640	660	7.2	39	-5.8
3800	647	6.4	51	-3.0
4190	617	4.5	43	-7.0
4820	571	0.2	34	-13.7
5200	544	-3.6	56	-11.0
5380	532	-4.7	41	-15.8
5550	520	-5.6	53	-13.6
6060	487	-9.1	51	-17.3
6630	453	13.3	61	-19.2
7240	418	-18.2	53	-25.5
7370	411	-18.4	50	-26.2
7560	400	-20.0	42	-29.6
7820	386	-21.7	36	-32.7

- 1 Base of clouds
- 2 Beginning of missing data
- 3 End of missing data

Ship- Horizon Asc. No. 5
 Lat. 26.4°N Long. 122.6°W
 Rise Time 1522, 30 July 1950 GCT
 Surface Observation at Release
 Wind NW 19 Knots
 Weather Overcast
 Clouds 10L5/u

Ship- Horizon Asc. No. 6
 Lat. 21.9°N Long. 123.8°W
 Rise Time 0233, 31 July 1950 GCT
 Surface Observation at Release
 Wind NNW 12 Knots
 Weather Overcast
 Clouds 7L5/u; 3M6/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>	<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
5	1016	19.7	76	15.4	5	1014	20.8	79	17.1
450	965	15.7	80	12.3	370	972	16.7	82	13.5
880	917	11.8	91	10.4*	1000	902	12.0	93	11.0
1170	835	10.9	98	10.6	1050	896	12.2	91	10.8
1320	869	7.0	100	7.0	1110	888	14.1	88	12.1
1520	848	16.1	17	-8.9	1170	884	17.0	26	-2.5
1780	823	16.9	17	-8.3	1270	874	17.5	29	-0.6
2080	794	15.3	49	4.7	1300	870	17.4	58	9.0
2530	753	13.7	39	0.0	1630	838	18.4	27	-0.9
2810	728	12.4	19	-10.5	2020	799	15.1	19	-8.4
3470	673	8.7	20	-13.0	2130	790	15.3	18	-8.8
4880	566	-2.3	42	-13.5	2470	760	14.5	23	-6.3
5230	542	-4.0	41	-15.2	2730	735	13.8	16	-11.5
5490	524	-6.1	33	-19.7	2930	718	10.6	29	-6.6
6080	486	-10.0	52	-18.0	3210	693	9.4	17	-14.4
6220	477	-9.5	33	-22.8	4040	628	4.4	MB	
6440	465	-11.7	29	-26.1	4360	603	2.1	18	-19.7
7480	404	-19.9	MB		4710	577	-1.5	42	-12.7
7550	400	-19.5	MB		4900	564	-2.6	58	-9.7
7740	390	-19.7	MB		5280	538	-5.3	55	-12.9
8200	366	-23.6	MB		5510	522	-6.2	23	-23.9
8530	350	-25.1	MB		6270	474	-11.3	52	-19.2
9170	319	-30.1	MB		7400	408	-21.2	78	-24.0
12190	204	-49.8			7530	400	-21.9	73	-25.3
14980	132	-61.3			8000	375	-25.2	74	-28.5
15740	117	-60.2			8300	360	-28.6	85	-30.3
17360	90	-65.6			8690	341	-29.0	37	-39.2
17930	82	-66.3			11030	243	-43.7		
20930	50	-60.0			12270	202	-51.1		
22520	39	-53.0			13550	165	-57.6		
23420	34	-46.8							
31720	10	-37.6							

* Base of clouds

Ship-Horizon Asc. No. 7
 Lat. 23.9°N Long. 124.7°W
 Rise Time 1507, 31 July 1950 GCT

Surface Observation at Release

Wind NE 5 Knots
 Weather Overcast
 Clouds 9+ L5/u; 1-M3/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
5	1015	19.6	79	14.9
950	908	12.0	90	10.4 ¹
1310	870	10.3	100	10.3
1440	857	12.0	99	11.9
1520	848	10.5	100	10.5
1640	836	17.4	41	4.1
1720	828	17.8	37	3.0
2570	750	11.7	47	0.8
3040	707	10.3	47	-0.4
3960	633	3.0	62	-3.5
4080	623	1.9	55	-5.1
4230	612	1.1	60	-5.7 ²
5070	587	-0.6	61	-7.1 ²
4830	561	-2.0	61	-8.5
5240	539	-5.8	55	-8.2 ³
5740	505	-9.7	52	-17.7
7060	425	-22.0	90	-23.2
7120	422	-21.4	75	-24.6
7150	420	-19.5	61	-25.0
7220	416	-19.1	35	-30.7
7510	400	-20.8	MB	
8240	352	-26.0	MB	

- 1 Base of 9. L5/u
 2 Beginning of doubtful data
 3 End of doubtful data

Ship-Horizon Asc. No. 8
 Lat. 22.5°N Long. 125.8°W
 Rise Time 0258, 1 August 1950 GCT

Surface Observation at Release

Wind N 7 Knots
 Weather Precipitation within sight
 Clouds 9+ L5/u; 1M3/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
5	1015	22.0	59*	13.6
750	932	14.6	90	12.0
1220	881	12.8	91	11.3
1330	869	14.6	82	11.6
1710	830	16.8	32	0.0
2000	802	14.6	46	3.0
2620	746	10.7	56	2.3
2970	715	9.1	51	-0.5
3260	690	6.5	55	-1.7
3940	635	2.3	50	-7.0
4540	589	-2.1	60	-9.9
5130	547	-5.6	50	-14.4
5300	535	-6.6	57	-13.7
5840	498	-10.1	53	-17.8
6220	475	-12.7	65	-18.0

* Radiosonde surface temperature used as psychrometer temperature unreasonable (24.4°C)

Ship-Horizon Asc. No. 9
 Lat. 21.1°N Long. 127.0°W
 Rise Time 1542, 1 August 1950 GCT

Surface Observations at Release

Wind SW 8 Knots
 Weather Broken Clouds
 Clouds 7 L5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
5	1016	23.0	75	18.4
370	974	18.3	82	15.2
930	914	14.3	90	12.7
1270	877	13.8	88	11.7
1520	851	17.1	55	8.0
1660	837	16.7	46	5.1
2170	788	13.4	58	5.4
2880	724	10.2	42	-2.1
3670	658	4.4	44	-6.7
4020	630	2.0	47	-8.1
4350	605	0.7	44	-10.1
5080	551	-5.0	55	-12.6
5270	539	-5.3	54	-13.2
5810	502	-9.9	59	-16.4
6030	488	-8.9	51	-17.3
6810	441	-13.4	34	-25.9
7300	413	-17.3	MB	
7550	400	-18.7	MB	
8280	363	-22.2	MB	
9710	298	-33.7	MB	
10120	260	-35.1	MB	

Ship Horizon Asc. No. 10
 Lat. 20.8°N Long. 127.1°W
 Rise Time 0331.2 August 1950 GCT
Surface Observation at Release
 Wind NE 12 knots
 Weather Virga
 Clouds 9 + L2/u

Alt.	Press.	Temp.	R.H.	Dew Pt
5	1016	23.5	77	19.3
850	923	16.5	89	14.7
1270	878	14.1	92	12.9
1390	867	10.6	74	6.2
1540	852	11.6	56	3.2
1630	843	13.9	48	3.1
1820	824	16.7	40	3.0
1970	810	17.3	34	1.4
2430	768	13.4	42	0.8
2740	740	11.8	34	-3.5
2910	724	10.7	41	-2.0
3670	660	5.5	34	-9.1
4520	595	1.0	25	-16.8
4920	566	-2.5	48	-12.0
5250	543	-4.5	37	-17.0
5360	535	-3.3	30	-18.4
6460	471	-7.6	MB	
7340	415	-16.3	MB	
7600	400	-17.2	MB	
7780	391	-18.0	MB	
8850	337	-26.5	MB	
9120	325	-26.5	MB	
9580	305	-30.4	MB	
11070	246	-38.9	MB	

Ship Horizon Asc. No. 11
 Lat. 19.5°N Long. 128.3°W
 Rise Time 1541.2 August 1950 GCT
Surface Observation at Release
 Wind NE 18 knots
 Weather Broken Clouds
 Clouds 3L8/u

Alt.	Press.	Temp.	R.H.	Dew Pt
5	1017	24.1	71	18.5
690	941	17.0	78	13.1
990	907	15.2	82	12.2
1360	867	11.1	87	9.0
1460	857	16.8	54	7.5
1680	834	16.6	31	-0.5
1960	808	15.0	26	-4.3
2370	770	13.7	21	-8.3
2590	749	11.6	32	-4.5
3630	661	6.2	20	-15.0
3780	649	6.7	19	-15.4
3970	634	5.2	20	-15.9
4140	621	3.9	21	-16.4
4500	594	0.4	35	-13.3
4700	580	-0.2	31	-15.3
4790	573	0.0	27	-16.7
5060	554	-2.5	MB	MB
5390	531	-2.7	MB	MB
5460	526	-1.9	MB	MB
6200	480	-7.9	MB	MB
6500	461	-11.5	MB	MB
6710	449	-11.9	MB	MB
7190	422	-15.2	MB	MB
7480	406	-15.8	MB	MB
7589	400	-17.1	MB	MB
8167	370	-22.2	MB	MB

Ship Horizon Asc. No. 12
 Lat. 19.5°N Long. 128.3°W
 Rise Time 0318, 3 August 1950 GCT
Surface Observation at Release
 Wind NE 18 knots
 Weather Broken clouds
 Clouds 9 L8/u

Ship Horizon Asc. No. 13
 Lat. 18.9°N Long. 129.0°W
 Rise Time 1502, 3 August 1950 GCT
Surface Observation at Release
 Wind ENE 20 knots
 Weather overcast
 Clouds 10 L8/u

Alt.	Press.	Temp.	R.H.	Dew Pt
5	1015	23.8	75	19.2
390	972	19.9	68	13.7
880	917	16.0	80	12.5
1180	885	12.8	89	11.0*
1220	877	11.7	90	10.2
1300	873	18.8	30	0.9
1590	864	20.4	21	-2.7
1800	822	18.0	33	2.0
2150	789	16.5	27	-2.5
2970	716	11.1	18	-12.3
3190	697	10.5	26	-8.7
3420	679	8.5	30	-8.1
3560	666	6.9	48	-3.3
3720	653	5.8	45	-5.2
4040	628	4.7	28	-12.2
4432	600	1.5	38	-11.3
4720	577	-0.6	30	-20.7
5040	555	-2.0	23	-20.3
5210	543	-1.6		
5450	527	-4.5		
5950	494	-6.9		
6350	470	-9.8		
6950	434	-13.5		
7184	422	-14.1		

Alt.	Press.	Temp.	R.H.	Dew Pt
5	1015	23.5	80	19.9
390	971	19.9	81	16.6
1260	877	13.6	94	12.7
1370	867	13.4	95	12.6
1460	858	10.1	98	9.8
1630	842	19.5	35	3.7
1740	830	19.0	40	5.1
2020	803	17.5	35	2.0
2630	748	13.3	62	6.3
2920	722	12.1	57	4.9
4090	626	3.2	71	1.5
4340	607	1.4	60	-5.4
4820	572	0	34	-14.0
4950	563	1.0	20	-19.4
5430	530	-2.2	MB	
6330	474	-8.3	MB	
6810	447	-8.7	MB	
7090	431	-11.6	MB	
7480	410	-13.0	MB	
7670	400	-14.9	MB	
9420	315	-27.2	MB	
10340	277	-33.6	MB	
11110	248	-39.9	MB	

* Leaking Balloon

Ship Horizon Asc. No. 14
 Lat. 17.5°N Long. 130.2°W
 Rise Time 0320, 4 August 1950 GCT
 Surface Observation at Release
 Wind NE 18 knots
 Weather Precipitation in sight
 Clouds 6L8/u; 4M6/u

Ship Horizon Asc. No. 15
 Lat. 16.1°N Long. 131.6°W
 Rise Time 1536, 4 August 1950 GCT
 Surface Observation at Release
 Wind NE 34 knots
 Weather Light Showers
 Clouds 6L3/u; 3M6/u; 1H2/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
5	1014	24.9	87	22.6
120	967	20.8	88	18.7*
1370	866	16.0	94	15.0
1440	857	16.8	93	15.7
2060	796	14.0	91	12.6
2510	755	10.4	66	4.4
2670	741	13.3	37	-1.0
2980	714	12.1	28	-5.7
3480	680	8.6	29	-8.4
3640	659	7.6	25	-11.2
4300	608	2.5	59	-4.7
4370	567	-0.7	20	-20.7
5110	550	-2.5	22	-21.2
5210	543	-1.7	20	-21.7
5980	492	-7.5	MB	
6230	476	-8.4	MB	
7020	430	-14.3	MB	
7140	423	-13.7	MB	
7340	412	-13.5	MB	
7575	400	-15.7	MB	
8160	369	-20.4	MB	
8690	344	-24.2	MB	
9000	329	-26.3	MB	
12760	189	-57.2		
14330	146	-70.6		
15340	123	-77.0		
16980	93	-72.1		
17520	85	-66.6		
20405	53	-62.6		

Alt.	Press.	Temp.	R.H.	Dew Pt.
5	1012	26.2	90	24.5
800	924	20.1	91	18.6
1910	812	16.7	81	12.4
3410	679	9.0	63	2.4
3920	638	5.5	62	-1.2
4160	620	3.3	68	-2.0
4740	574	0.9	29	-15.1
5180	546	-2.4	35	-15.7
5720	509	-4.3	25	-21.4
6630	454	-8.7	MB	
7630	400	-14.7	MB	
8310	367	-18.9	MB	
12490	196	-53.3		
14350	149	-67.7		
15350	125	-73.5		
16010	112	-74.8		
16410	105	-74.8		
17440	88	-65.0		
19640	61	-62.8		

* Base of 6L8/u

Ship Horizon Asc. No. 18
 Lat. 14.4°N Long. 133.1°W
 Rise Time 0324, 6 August 1950 GCT
Surface Observation at Release
 Wind NE 14 knots
 Weather Light Showers
 Clouds 10L9/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt</u>
5	1013	25.0	91	23.5
2780	762	11.9	97	11.5
3770	649	5.3	29	-10.4
4080	625	3.8	41	-8.2
4430	599	1.1	59	-6.0
4460	597	0.2	60	-6.7
4590	587	1.1	33	-13.3
5280	539	-3.2	25	-20.5
5630	515	-6.1	70	-10.7
5660	513	-5.0	54	-12.3
5830	502	-4.2	26	-20.7
6730	447	-12.1	MB	
7340	413	-13.7	MB	
7581	400	-15.3	MB	
8900	333	-26.2	MB	
10470	267	-38.0	MB	
11740	221	-48.5		
14140	151	-68.3		
15400	121	-76.2		
16000	110	-75.6		
17780	81	-70.4		
19400	62	-66.9		
20000	56	-60.8		
21533	44	-58.7		

Ship Horizon Asc. No. 19
 Lat. 13.9°N Long. 133.4°W
 Rise Time 1634, 6 August 1950 GCT
Surface Observation at Release
 Wind NE 18 knots
 Weather Broken clouds
 Clouds 1-11/u; 1M6/u; 8H3/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt</u>
5	1013	26.7	66	20.0
1420	862	15.3	84	12.8
1560	847	18.6	42	5.5
1640	840	19.3	36	4.0
1800	809	17.7	18	-6.9
2900	721	10.2	28	-7.5
3280	690	7.9	21	-13.0
3520	669	7.6	MB	
3850	643	6.4	MB	
4900	565	-2.0	MB	
5580	518	-2.3	MB	
5870	500	-3.4	MB	
6910	437	-11.0	MB	
7430	409	-13.9	MB	
7600	400	-15.3	MB	
8300	364	-19.9	MB	
10040	286	-34.4	MB	
10680	261	-38.0	MB	
13520	169	-63.7		
14890	135	-70.3		
15500	121	-72.0		

Ship Horizon Asc. No. 20
 Lat. 13.5°N Long. 133.7°W
 Rise Time 0326, 7 August 1950 GCT
Surface Observation at Release
 Wind ENE 16 knots
 Weather Broken Clouds
 Clouds 1L1/u; 1-M6/u; 7H3/u

Alt.	Press.	Temp.	R.H.	Dew Pt
5	1012	26.3	71	20.7
730	936	19.3	80	15.8
1330	868	15.4	80	12.0
1630	838	14.9	66	8.7
1690	832	17.6	21	-4.9
4130	620	2.5	31	-12.8
4740	575	-3.3	79	-6.4
4850	567	-3.1	37	-15.7
5500	523	-5.0	32	-19.1
6700	449	-9.0	32	-22.6
7562	400	-16.7	49	-24.7
8180	368	-21.5	34	-33.2
8550	350	-23.6	MB	
10056	283	-36.9	MB	

Ship Horizon Asc. No. 22
 Lat. 12.7°N Long. 134.3°W
 Rise Time 0330, 8 August 1950 GCT
Surface Observation at Release
 Wind NE 21 knots
 Weather Precipitation in sight
 Clouds 9+ L8/u; 1-M2/u

Alt.	Press.	Temp.	R.H.	Dew Pt
5	1011	26.3	83	23.2
440	962	23.0	79	19.2
1590	842	14.7	95	14.0
3340	684	8.0	77	4.2
5300	537	-2.5	81	-5.3
6430	465	-9.5	88	-11.1
7570	400	-16.2	94	-16.9
10300	274	-35.4	98	-35.6
11800	220	-48.2		
13140	178	-60.3		
13580	166	-64.9		
14080	152	-68.0		
14570	141	-66.9		

Ship Horizon Asc. No. 21
 Lat. 12.7°N Long. 134.4°W
 Rise Time 1656, 7 August 1950 GCT
Surface Observation at Release
 Wind NE 22 knots
 Weather Squalls
 Clouds 4L3/u; 2 M6/u

Alt.	Press.	Temp.	R.H.	Dew Pt
5	1012	26.1	84	23.2
730	932	20.0	90	18.3
2750	735	11.0	8.5	8.5
4110	623	2.6	65	-3.3
5490	525	-3.7	90	-5.0
6460	465	-10.6	93	-11.5
6700	454	-9.2	87	-10.9
6750	448	-9.4	78	-12.5
7646	400	-16.3	56	-23.0
3060	363	-20.9	42	-30.5*
8850	338	-25.4	M	M
11000	250	-41.3		
12180	209	-52.6		
13900	159	-63.8		
15310	126	-70.0		
16790	98	-74.8		
24980	27	-40.8		
28578	16	-31.9		

*Begin missing R.H.

Ship Horizon Asc. No. 23
 Lat. 10.9°N Long. 135.5°W
 Rise Time 1716, 8 August 1950 GCT
Surface Observation at Release
 Wind NNW 7 knots
 Weather Precipitation-in sight
 Clouds 6L8/u; 3M9/u; 1-H2/u

Alt.	Press.	Temp.	R.H.	Dew Pt
5	1012	25.5	77	21.2
330	975	21.6	80	18.0
2180	786	12.8	88	10.9
2300	775	12.8	88	10.9
2580	750	11.0	89	9.3
2820	728	10.6	88	9.7
4380	603	2.9	72	-1.7
5490	526	-4.0	81	-1.9
6250	477	-7.7	70	-12.1
7590	400	-17.1	73	-20.8
8190	369	-20.2	80	-22.7
8580	350	-22.3	51	-29.6
10310	210	-30.0	40	-40.0
10700	260	-38.1	M	M
13090	180	-60.4		
13700	139	-68.3		
16200	108	-73.6		
21340	46	-58.2		

Ship Horizon Asc. No. 24
Lat. 10.4°N Long. 136.9°W
Rise Time 0348, 9 August 1950 GCT
Surface Observation at Release
 Wind NE 9 knots
 Weather Virga
 Clouds 2L3/u; 8L2/u

Alt.	Press.	Temp.	R. H.	Dew Pt.
5	1010	24.8	90	23.0
410	963	21.4	95	20.5
830	917	19.4	96	18.6
1170	882	19.6	91	18.1
1450	853	17.0	92	15.7
2190	783	13.6	88	11.8
2730	735	12.4	78	8.8
3330	684	9.7	70	4.5
4490	593	1.4	88	-0.5
5120	550	-1.2	90	-2.7
6070	486	-6.6	79	-8.3
6380	467	-9.7	72	-12.6
6540	457	-9.1	76	-12.5
7580	400	-16.1	79	-19.1
9920	290	-33.1	100	-33.1
10270	276	-34.1	87	-35.5
10680	260	-38.5	67	-42.2
13900	158	-63.9		
14770	137	-70.5		
16600	100	-77.2		
18050	78	-72.4		

Ship Horizon Asc. No. 25
Lat. 9.7°N Long. 136.4°W
Rise Time 1510, 9 August 1950 GCT
Surface Observation at Release
 Wind S 10 knots
 Weather Precipitation in sight
 Clouds 3L1/u; 6M3/u; 3H 9/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
5	1010	26.0	83	23.0
690	938	20.7	83	17.7
2830	726	10.0	83	5.3
3770	648	5.3	76	1.5
4140	618	2.7	75	-1.3
4300	606	2.5	74	-1.6
4950	560	-2.4	78	-5.7
5320	533	-3.5	83	-6.0
5800	501	-5.6	77	-9.0
6540	457	-10.1	70	-14.5
6920	436	-11.8	43	-21.8
7370	410	-16.0	62	-21.7
7554	400	-16.3	56	-23.0
7760	388	-16.7	50	-24.6
8660	345	-24.4	60	-29.9
9840	293	-31.6	38	-41.2
11890	217	-49.6		
13230	176	-57.7		
13990	156	-64.6		
14573	141	-67.3		

Ship Horizon Asc. No. 26
Lat. 9.5°N. Long 136.4°W
Rise Time 0331, 10 August 1950 GCT
Surface Observation at Release
 Wind SSW 12 knots
 Weather Broken clouds
 Clouds 7L3/u; 2M6/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
5	1010	25.4	88	23.2
290	978	24.6	76	20.1
1280	873	17.8	89	15.9
1480	853	18.0	86	15.6
1790	823	16.5	79	12.9
2050	798	14.7	80	11.2
2964	715	9.7	84	7.1

Ship Horizon Asc. No. 27
Lat. 8.5°N. Long. 136.8°W
Rise Time 1531, 10 August 1950 GCT
Surface Observation at Release
 Wind S 19 knots
 Weather Precipitation in sight
 Clouds 6L3/u; 1M6/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
5	1010	26.2	84	23.4
660	937	20.0	90	18.4
1080	893	17.8	91	16.4
1200	880	17.8	87	15.6
1640	836	14.3	90	12.7
2030	797	13.9	88	11.9
2790	729	11.1	80	7.7
4090	622	3.9	76	-0.8
4790	570	-1.8	80	-4.8
5140	546	-1.6	24	-20.0
6040	488	-6.3	MB	MB
7240	417	-15.3	MB	MB
7560	400	-18.4	MB	MB
8590	347	-24.1	MB	MB
10010	285	-33.4	MB	MB
10830	288	-41.4		
11620	226	-46.9		

Ship Horizon Asc. No. 28
 Lat. 7.3°N Long. 137.2°W
 Rise Time 0327, 11 August 1950 GCT
 Surface Observation at Release
 Wind SE 16 knots
 Weather Broken Clouds
 Clouds 3LL/u; 6L5/u; 1-M5/u

Alt.	Press	Temp.	R.H.	Dew Pt.
5	1009	26.0	72	20.5
930	910	18.9	86	16.6
1870	814	14.4	91	12.9
2300	775	15.4	85	12.8
2820	729	11.9	79	13.4
4070	627	5.7	69	0.4
4550	591	1.5	71	-3.1
5160	548	-0.6	23	-19.0
5590	518	-2.9	MB	MB
6300	474	-7.7	MB	MB
6570	458	-8.3	MB	MB
6960	435	-12.5	MB	MB
7592	400	-17.0	MB	MB
7650	396	-17.3	MB	MB
8070	375	-18.2	MB	MB
9210	321	-26.6	MB	MB
9706	300	-29.7	MB	MB
11500	231	-45.8		
13280	176	-61.4		
14640	140	-71.5		
15900	113	-76.1		
16140	108	-74.7		
17389	87	-79.1		

Ship Horizon Asc. No. 29
 Lat. 6.1°N Long. 138.1°W
 Rise Time 1506, 11 August 1950 GCT
 Surface Observation at Release
 Wind SSE 20 knots
 Weather overcast
 Clouds 1LL/u; 9 L5/u

Alt.	Press	Temp.	R.H.	Dew Pt.
5	1010	25.4	72	19.5
870	914	18.0	79	14.3
1020	879	18.4	77	13.3
1170	882	18.0	78	14.1
1610	838	13.8	89	11.9*
1680	830	13.0	90	11.5
2370	765	12.1	80	8.7
2810	726	9.1	86	6.9
3090	701	9.3	80	6.1
3580	654	7.4	52	-1.7**
4530	587	-0.8	M	M
4670	578	0.8	20	-19.5***
5060	551	0.5	MB	MB
6140	481	-6.0	MB	MB
7560	400	-16.6	MB	MB
8140	370	-18.6	MB	MB
9270	318	-27.3	MB	MB
9560	305	-29.1	MB	MB
12480	198	-54.3		
15200	126	-73.7		
16370	103	-77.9		
17160	90	-75.8		
17850	80	-77.4		
18480	72	-68.5		
21080	47	-59.1		
22620	37	-51.1		
26080	22	-39.6		

* Base 9 L5/u

** Beginning of missing R.H.

*** End of missing R.H.

Ship Horizon Asc. No. 30
 Lat. 4.9°N Long. 139.6°W
 Rise Time 0309, 12 August 1950 GCT
 Surface Observation at Release
 Wind SE 24 knots
 Weather Overcast
 Clouds 6 LL/u; 10H 7/u

174
 Ship Horizon Asc. No. 31
 Lat. 4.6°N Long. 140.0°W
 Rise Time 1549, 12 August 1950 GCT
 Surface Observation at Release
 Wind SE 20 knots
 Weather Overcast
 Clouds 3LL/u; 4M3/u; 4H 8/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
5	1010	25.4	74	20.4
540	950	20.9	8.3	17.9
890	912	16.8	89	15.0
1160	884	16.1	87	14.8
1340	865	18.0	48	6.8
1780	821	16.1	70	10.7
2820	727	10.5	80	7.1
3340	684	8.8	71	3.9
3590	663	6.6	62	0.0
3780	648	6.4	57	-1.2
4400	600	2.1	80	-0.9
4870	566	0.5	21	-19.3
5030	555	-0.4	MB	MB
5340	534	-0.3	MB	MB
5830	502	-3.9	MB	MB
7020	430	-13.7	MB	MB
7480	405	-14.1	MB	MB
7570	400	-14.8	MB	MB
7960	380	-16.8	MB	MB
13040	181	-59.1		
14300	148	-67.9		
14860	135	-73.6		
16280	105	-80.5		
16670	98	-77.5		
17420	86	-80.9		
18140	76	-68.7		
19880	57	-62.9		
20800	49	-63.1		
21310	45	-57.1		

Alt.	Press.	Temp.	R.H.	Dew Pt.
5	1011	25.1	75	20.5
1240	877	14.2	88	12.3
1370	863	15.0	63	8.0
1430	858	17.0	50	6.5
1830	822	15.9	23	4.9
2020	799	14.7	29	-3.1
2490	756	12.1	69	6.7
3110	702	7.2	85	4.9
3200	694	7.7	77	4.0
3260	689	10.1	66	4.0
3570	664	7.4	53	-1.5
4520	590	-1.4	78	-4.7
4620	583	1.8	51	-7.2
4970	558	2.3	21	-17.7
5640	513	-2.5	MB	MB
6860	440	-10.4	MB	MB
7570	400	-15.2	MB	MB
8120	372	-18.4	MB	MB
8710	343	-24.1	MB	MB
10510	267	-37.4	MB	MB
10860	254	-40.5		
11320	237	-44.0		
11700	224	-45.3		
13520	169	-60.7		
14880	135	-72.9		
16320	105	-79.3		
16540	101	-75.5		
17400	87	-80.2		
17810	81	-69.3		
20190	55	-60.2		
20740	50	-54.6		
24040	30	-49.9		
25080	26	-43.2		
28740	15	-37.4		

Ship Horizon Asc. No. 32
 Lat. 5.2°N Long. 141.1°W
 Rise Time 0338, 13 August 1950 GCT
 Surface Observation at Release
 Wind SE 18 knots
 Weather Broken clouds
 Clouds 2L2/u; 3M5/u; 3H 8/u

Ship Horizon Asc. No. 33
 Lat. 6.9°N Long. 141.8°W
 Rise Time 1605, 13 August 1950 GCT
 Surface Observation at Release
 Wind ESE 21 knots
 Weather Scattered clouds
 Clouds 1L2/u; 4H8/u

Alt.	Press	Temp	R.H.	Dew Pt.
5	1010	26.1	71	20.5
820	919	18.2	79	14.5
980	902	18.0	78	14.1
1340	864	13.8	85	11.4
1670	831	14.4	63	7.5
1940	805	15.4	27	-3.5
2450	758	13.6	20	-9.0
2630	738	11.2	49	0.9
2870	722	11.7	23	-9.8
3250	688	7.9	66	2.0
3530	666	7.9	33	-7.3
3700	652	7.6	41	-4.8
4050	623	4.9	50	-4.7
4460	595	1.3	54	-7.0
4970	559	-2.8	85	-5.0
5160	546	-0.3	32	-15.0
5420	528	-0.7	30	-16.1
6320	471	-8.0	27	-23.7
6790	443	-10.1	MB	MB
7200	420	-14.1	MB	MB
7560	400	-15.0	MB	MB
7740	390	-16.1	MB	MB
8430	355	-22.4	MB	MB
9070	325	-25.6	MB	MB
9750	295	-32.4	MB	MB
10330	272	-37.7	MB	MB
10900	263	-38.3	MB	MB
12240	205	-53.1		
12900	185	-59.6		
14630	138	-71.1		
15860	113	-80.5		
16530	100	-81.7		
17340	87	-76.2		
17810	80	-68.6		
19770	58	-60.1		

Alt.	Press.	Temp.	R.H.	Dew Pt.
5	1011	26.3	75	21.5
160	994	23.9	73	18.8
690	935	19.4	88	17.3
1490	851	14.8	76	10.6
2030	798	14.8	44	2.7
2610	773	13.6	35	-1.5
2600	746	11.1	62	4.1
2870	722	10.6	60	3.2
3220	693	8.4	60	1.1
3350	682	8.6	33	-6.5
3920	636	3.6	58	-3.8
4000	629	3.8	49	-5.8
4160	617	2.5	44	-8.5
4460	594	1.5	56	-6.2
4600	583	2.4	30	-13.3
5190	543	-1.2	26	-18.1
5400	528	-2.0	MB	MB
6590	454	-9.7	MB	MB
7260	416	-15.5	MB	MB
7350	411	-15.0	MB	MB
7560	400	-15.9	MB	MB
8200	367	-21.5	MB	MB
8280	364	-21.0	MB	MB
8600	347	-22.6	MB	MB
11280	238	-43.7		
12410	200	-52.8		
12920	185	-57.6		
14320	147	-67.5		

Ship Horizon Asc. No. 34
Lat. 6.1°N Long. 142.1°W
Rise Time 0411, 14 August 1950 GCT
Surface Observation at Release
 Wind SE 10 knots
 Weather Scattered clouds
 Clouds 2L2/u; 1M3/u

Ship Horizon Asc. No. 35
Lat. 7.5°N Long. 143.0°W
Rise Time 1451, 14 August 1950 GCT
Surface Observation at Release
 Wind SE 6 knots
 Weather Overcast
 Clouds 2L3/u; 9L5/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
5	1011	26.4	72	21.0
890	913	18.3	86	20.9
1270	873	15.8	89	14.1
1440	856	15.1	87	13.0
1850	816	12.2	87	10.1
1960	806	15.3	41	2.1
2200	782	14.4	20	-8.1
2590	747	12.7	30	-4.2
2870	721	9.9	67	4.0
3430	673	6.5	75	2.5
3650	656	6.8	43	4.8
3820	642	5.3	57	-2.5
4510	589	1.1	49	-8.3
4800	569	0.4	23	-18.3
5180	542	-2.0	61	-8.5
5670	510	-4.0	27	-20.1
6110	481	-6.2	26	-22.4
7541	400	-16.9	MB	MB
8950	331	-25.8	MB	MB
590	193	-57.0		

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
5	1010	25.6	75	21.0
1170	882	16.5	90	15.0
2950	715	10.0	86	7.8
3800	645	4.1	87	2.2
5510	522	-3.7	70	-8.3
6720	447	-10.0	33	-23.2
7560	400	-16.0	33	-28.5
8460	355	-22.5	34	-34.1
9120	323	-27.1	MB	MB
10430	267	-39.1	MB	MB
12300	203	-54.2		
14800	135	-71.0		
16100	108	-73.7		
16780	96	-78.2		
17100	91	-72.5		

Ship Horizon Asc. No. 36
Lat. 8.3°N Long. 143.7°W
Rise Time 0306, 15 August 1950 GCT
Surface Observation at Release
 Wind SSW 12 knots
 Weather Continuous light rain
 Clouds Obscured

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
0	1009	23.2	98	22.9
1380	859	15.6	93	14.5
1530	844	16.0	94	15.0
3170	695	8.4	96	7.7
4460	593	1.1	89	-0.5
5950	492	-7.5	91	-8.7
6360	467	-9.0	86	-10.9
6460	462	-10.0	85	-12.0
6890	436	-13.2	31	-26.7
7540	400	-17.4	33	-29.8
8120	370	-20.5	34	-32.2
8520	350	-23.3	56	-29.7
9310	314	-29.0	67	-33.2
9680	298	-31.8	77	-34.5
10390	270	-37.5	52	-43.7
11570	226	-48.3		
12420	198	-55.0		
13430	169	-63.1		
14020	153	-68.0		
14730	136	-70.9		

Ship Horizon Asc. No. 37
Lat. 9.0°N Long. 144.4°W
Rise Time 1500, 15 August 1950 GCT
Surface Observation at Release
 Wind SE 3 knots
 Weather Precipitation in sight
 Clouds 1-L1/u; 1-L3/u; 9L5/u; 4M7/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
5	1010	25.5	83	22.5
1400	860	17.0	88	15.0
3020	709	8.2	95	7.5 ¹
3020	709	8.6	92	7.5 ²
5190	543	-2.1	96	-2.8
6690	449	-11.4	82	-13.7
6900	436	-13.0	57	-19.7
7560	400	-17.0	54	-24.1
7650	395	-17.3	54	-24.3
8320	362	-21.7	50	-29.4
9380	312	-30.0	45	-38.2
10180	278	-36.4	48	-43.4
11720	222	-48.9		
12280	204	-52.8		
13980	155	-64.0		
17030	93	-76.9		
18200	76	-73.2		
21380	61	-57.9		
21980	41	-55.7		
36250	5	-28.6		

1. Data obtained on first ascent.
 Balloon forced down, apparently
 by down-draft.
2. Data obtained on last ascent of
 balloon.

Ship Horizon Asc. No. 38
 Lat. 9.9°N Long. 145.2°W
 Rise Time 0322, 16 August 1950 GCT
 Surface Observation at Release
 Wind ESE 7 knots
 Weather Precipitation in sight
 Clouds 1-L3/u; 5-L3/u;
 1-M6/u; 1-H3/u

Ship Horizon Asc. No. 39
 Lat. 10.5°N Long. 145.7°W
 Rise Time 1451, 16 August 1950 GCT
 Surface Observation at Release
 wind SE 8 knots
 Weather scattered clouds
 Clouds 1-L1/u; 1-L3/u; 1-M6/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
5	1010	27.8	75	23.1
480	958	22.0	86	19.0
320	921	19.8	87	17.1
1030	899	19.8	84	16.5
1610	841	15.2	86	12.3
1970	815	15.2	86	12.3
2220	782	13.4	80	9.5
2590	748	11.0	84	7.3
2880	728	9.9	83	6.7
3370	682	8.4	79	4.4
4020	620	4.7	71	-0.3
4910	564	-0.5	71	-5.7
5340	535	-3.0	61	-10.1
5670	512	-4.5	27	-22.0
6060	487	-6.8	MB	MB
7560	400	-18.1	33	-31.4
7960	380	-21.5	48	-30.3
8710	342	-26.1	39	-36.5
10200	277	-37.8	MF	ME
12900	184	-60.1		
14510	141	-71.8		
15400	121	-73.5		
16390	102	-79.4		
17170	89	-77.6		
18830	67	-62.8		

Alt.	Press.	Temp.	R.H.	Dew Pt.
5	1010	26.0	83	23.0
1550	845	16.4	85	14.9
2750	733	11.7	60	4.2
4380	602	2.7	69	-2.4
4690	578	0.5	66	-5.1
5100	550	-1.1	49	-10.4
5240	541	-2.4	42	-13.5
5630	515	-3.8	20	-23.6
6000	490	-6.8	MB	MB
6630	453	-11.8	ME	ME
6940	435	-12.4	25	-28.3
7570	400	-17.3	42	-27.1
7920	380	-19.5	29	-33.0
9320	315	-28.7	MB	MB
12490	197	-55.0		
13600	165	-62.9		
14640	139	-68.6		
15310	124	-74.8		
17180	90	-77.0		
18080	77	-70.5		

Ship Horizon Asc. No. 40
Lat. 10.7°N. Long. 146.0°W
Rise. Time 0306, 17 August 1950 GCT
Surface Observation at Release
 Wind NNW 3 knots
 Weather light rain, showers
 Clouds 9/L9/u; 1-M6/u; 1-H3/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
5	1011	25.4	87	23.1
1160	885	17.4	95	16.6
1980	804	14.4	94	13.5
3500	670	6.5	89	4.8
4210	614	2.3	79	-0.8
4340	604	2.0	78	-1.4
4910	570	-0.4	60	-7.2
5170	545	-2.5	71	-7.0
5360	532	-4.3	73	-8.4
5860	499	-7.4	78	-10.6
6100	483	-9.4	84	-11.6
6670	450	-11.2	85	-13.2
7560	400	-17.0	84	-19.1
8100	372	-20.5	83	-22.7*
8480	353	-23.3	M	M
10000	285	-35.5	78	-37.9**
10440	268	-38.6	78	-40.9
10910	250	-42.0		
13130	177	-62.4		
14550	140	-70.9		
16100	108	-79.9		
16700	97	-81.5		
17000	92	-74.4		
18767	68	-66.1		

* Beginning Missing R.H.
 ** End Missing R.H.

Ship Horizon Asc. No. 41
Lat. 11.7°N. Long. 146.9°W
Rise. Time 1621, 17 August 1950 GCT
Surface Observation at Release
 Wind SE 9 knots
 Weather Precipitation within sight
 Clouds 1L3/u; 6L4/u; 5M6/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
5	1013	26.0	84	23.1
2330	774	11.8	93	10.6
2540	756	12.0	82	9.0
3580	665	5.7	79	2.3
4210	616	3.2	62	-3.4
4540	591	0.2	69	-5.2
4840	570	-1.1	69	-6.0
5390	531	-4.0	40	-15.5
5780	505	-6.5	70	-11.0
5920	496	-6.9	72	-11.1
6380	468	-10.5	80	-13.3
6490	451	-10.1	79	-13.0
7020	431	-12.6	78	-15.7*
7210	420	-14.9	M	M
7580	400	-16.5	M	M
7900	384	-18.0	M	M
8880	335	-24.9	60	-30.5**
9600	303	-30.5	50	-37.6***
11650	225	-48.0		
13620	165	-63.4		
16000	111	-74.9		
17340	88	-74.9		
19130	65	-67.3		

* Beginning missing R.H.
 ** End missing R.H.
 *** Beginning Missing R.H.

Ship Horizon Asc.No. 42
 Lat. 12.9°N Long. 148.4°W
 Rise. Time 0259, 18 August 1950 GCT
Surface Observation at Release
 Wind ESE 8 knots
 Weather Precipitation within sight
 Clouds 1L3/u; 9L5/u; 1M6/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
5	1012	26.4	85	23.7
2280	778	12.0	94	11.0
2900	722	10.3	82	7.4
4740	576.2	-0.4	85.2	-2.9
4960	561	-0.9	77	-4.4
5290	538	-1.7	27	-18.2
5570	520	-3.4	29	-18.8
5930	496	-6.2	47	-15.6
6210	479	-7.8	32	-21.7
7050	430	-12.6	32	-25.8
7590	400	-16.4	71	-20.4
7780	325	-17.5	49	-25.6
7960	380	-18.1	51	-25.8
8320	361	-21.2	58	-27.2
9120	325	-26.3	43	-35.2
9950	289	-32.7	47	-40.2
10720	258	-39.4	MB	MB
13280	176	-60.6		
14300	148	-69.2		
16220	107	-76.7		
17500	86	-74.5		
18360	74	-67.9		
20730	50	-64.2		

Ship Horizon Asc.No. 43
 Lat. 13.9°N Long. 149.3°W
 Rise. Time 1511, 18 August GCT 1950
Surface Observation at Release
 Wind NE 18 knots
 Weather Broken Clouds
 Clouds 3L1/u; 1M3/u; 2H5/u

Alt.	Press.	Temp.	R.H.	Dew Pt.
5	1012	25.7	86	23.2
400	968	22.1	89	20.2
1290	873	18.0	80	14.5
1880	816	14.7	70	9.2
1920	811	15.5	37	1.0
2130	791	14.4	42	1.7
2630	745	10.5	67	4.8
4240	612	1.6	79	-1.6
4460	595	0.1	71	-7.4
5100	550	-2.9	71	-7.4
5400	530	-5.4	70	-10.0
5610	515	-5.5	40	-16.9
6080	485	-8.5	83	-10.8
6300	472	-9.3	35	-21.9
6690	449	-10.8	30	-25.0
7560	400	-16.9	35	-28.8
7700	392	-18.5	40	-28.8
7870	384	-18.6	43	-28.1
8160	369	-20.8	35	-32.3
9590	303	-31.9	MB	MB
10300	274	-39.0	MB	MB
13500	166	-67.7		
15180	125	-75.1		
16460	100	-76.8		
17080	90	-74.6		
17280	87	-67.5		
18330	73	-64.8		

Ship Horizon Asc. No. 44
 Lat. 14.3°N Long. 149.7°W
 Rise Time 0309, 19 August 1950, GCT
Surface Observation at Release
 Wind ENE 13 knots
 Weather light rain showers
 Clouds 1L3/u; 9 L5/u

Alt.	Press	Temp.	R.H.	Dew Pt.
5	1011	26.0	87	23.6
410	965	22.4	90	20.7
1560	845	16.0	90	14.3
1740	828	16.0	84	13.3
1930	812	14.6	81	11.3
1980	805	14.1	82	11.1
2570	751	12.2	75	7.9
3120	703	10.1	69	4.7
4330	607	2.4	79	-0.9
6090	486	-8.1	99	-8.2
7580	400	-17.1	95	-17.7
9200	321	-28.5	96	-28.9
10120	281	-36.5	100	-36.5*
10330	273	-38.0	M	M
12180	207	-54.5		
13540	166	-66.1		
15210	125	-76.0		
15730	115	-76.3		
16740	96	-74.5		

* Beginning missing R.H.

Ship Horizon Asc. No. 45
 Lat. 14.8°N Long. 151.8°W
 Rise Time 1711, 19 August 1950 GCT
Surface Observation at Release
 Wind ENE 18 knots

Weather Light rain showers in past hour
 Clouds 1L3/u; 9M2/u; 1-M6/u

Alt.	Press	Temp.	R.H.	Dew Pt.
5	1013	25.2	90	23.4
1890	812	14.2	92	12.9
2870	723	10.0	83	7.2
5870	500	-5.7	80	-8.5
6610	445	-12.0	90	-13.3
7280	417	-14.0	92	-15.4
7590	400	-16.4	94	-17.2
8240	366	-20.4	92	-21.4
9540	306	-30.1	94	-30.7
10780	256	-40.6	92	-41.4*

D A T A M I S S I N G

12660	192	-59.6		**
13300	174	-64.6		
14260	148	-70.2		
15110	128	-72.3		
15290	124	-70.8		

* Beginning missing data

** End missing data

Ship Horizon Asc. No. 46
 Lat. 14.6°N Long. 152.0°W
 Rise Time 0324, 20 August 1950 GCT
Surface Observation at Release
 Wind E 20 knots
 Weather Precipitation in sight
 Clouds 1L3/u; 3L2/u; 9-M6/u

Alt.	Press	Temp	R.H.	Dew Pt.
5	1011	26.4	83	23.3
660	939	21.7	84	18.9
1370	864	17.9	76	13.6
1550	846	17.9	70	12.3
1870	816	16.6	62	9.3
2160	788	14.5	69	8.9
2260	780	15.1	70	9.7
2930	720	10.5	75	6.3
3080	706	10.0	57	1.9
3530	669	7.1	68	1.6
3810	647	6.5	62	-0.2
4050	628	4.9	67	-0.5
4570	588	0.7	78	-2.8
5130	547	-1.2	74	-5.2
6390	468	-9.6	88	-11.2
6790	445	-11.0	91	-12.1
7590	400	-16.4	98	-16.7
7980	380	-18.7	99	-18.8
8230	368	-20.0	97	-20.3
10320	275	-35.1	88	-36.3
13400	172	-61.9		
14300	149	-69.0		
14790	137	-71.3		
15080	130	-70.8		
16240	107	-73.9		
16610	100	-72.5		

Ship Horizon Asc. No. 47
 Lat. 15.7°N Long. 152.6°W
 Rise Time 1520, 20 August 1950 GCT
Surface Observation at Release
 Wind E 20 knots
 Weather Broken Clouds
 Clouds 9 *11/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
5	1012	25.7	88	23.6
990	905	17.6	93	16.5
1240	878	15.9	91	14.5
1630	840	16.2	78	12.4
2430	764	13.1	70	7.8
3510	670	7.1	65	1.0
4540	590	-1.3	82	-4.0
4940	562	-1.8	52	-10.3
5660	512	-6.1	33	-19.7
5890	497	-6.8	28	-22.1
7560	400	-18.6	MB	MB
8140	370	-22.0	MB	MB
12250	204	-54.6		
13300	172	-63.5		
14580	139	-70.9		
14770	135	-71.4		
16200	106	-70.7		
16670	98	-71.4		
17680	82	-67.2		
19590	60	-65.8		
20360	53	-56.2		

Ship Horizon Asc. No. 48
 Lat. 17.7°N Long. 153.6°W
 Rise Time 0418, 21 August 1950 GCT
Surface Observation at Release
 Wind E 18 knots
 Weather Scattered clouds
 Clouds 2L2/u; 3H1/u

<u>Alt.</u>	<u>Press.</u>	<u>Temp.</u>	<u>R.H.</u>	<u>Dew Pt.</u>
5	1014	25.8	81	22.3
890	915	18.4	83	15.5
1230	880	18.4	72	13.3
1620	842	18.6	27	-0.6
2420	765	13.5	32	-2.8
3570	667	6.8	30	-9.4
3950	637	3.8	30	-12.0
4030	631	4.2	29	-12.1
4360	605	2.1	28	-14.4
4810	572	0.1	23	-18.5
5390	532	-4.3	26	-20.8
5870	500	-6.0	37	-20.0
6470	464	-11.6	29	-26.0
7580	400	-17.9	MB	MB
9140	323	-29.0	MB	MB
13700	162	-64.8		
15800	114	-72.6		
16460	102	-70.5		
17200	90	-71.1		
19540	61	-64.6		
20760	50	-58.6		
22330	39	-59.5		
24670	27	-49.9		
26630	20	-49.3		

Ship Horizon Asc. No. 49
 Lat. 19.5°N Long. 154.8°W
 Rise Time 1500, 21 August 1950 GCT
Surface Observation at Release
 Wind E 7 knots
 Weather Precipitation in sight
 Clouds 7L2/u

Alt.	Press.	Temp.	R.H.	Dew Pt
5	1016	25.0	81	21.5
1330	870	15.1	88	13.1
1440	860	13.8	89	12.0
1630	841	16.3	58	8.1
2040	802	14.5	46	3.1
2920	722	8.7	28	-8.6
3270	692	8.5	20	-13.1
3570	668	6.5	27	-11.0
4090	627	2.9	21	-17.2
4410	602	1.5	MB	MB
4710	580	-0.3	21	-19.9
4990	561	-2.6	35	-15.5
5140	550	-2.9	29	-18.3
5810	505	-8.0	49	-16.7
6550	460	-12.0	31	-25.7
6880	440	-15.6	31	-28.8
7170	424	-15.9	31	-29.1
7580	400	-19.1	MB	MB
9200	320	-31.5	MB	MB
11220	237	-49.8		
12240	202	-58.0		
13540	164	-66.3		
15570	117	-69.4		
18080	77	-67.4		
19260	63	-64.8		

Ship Horizon Asc. No. 50
 Lat. 19.9°N Long. 155.0°W
 Rise Time 2052, 21 August 1950 GCT
Surface Observation at Release
 Wind SE 10 knots
 Weather Scattered clouds
 Clouds 1-11/u; 1-L2/u; 1-H1/u

Alt.	Press.	Temp.	R.H.	Dew Pt
5	1017	27.7	70	21.8
70	1009	25.4	73	20.3
330	980	22.8	81	19.4
730	936	21.7	72	16.5
1520	854	15.2	76	11.0
1800	827	16.6	47	5.3
2400	770	12.8	41	0.0
2770	736	10.1	37	-3.8
3270	694	10.1	22	-10.5
4280	613	1.9	22	-17.5
4790	575	0.0	31	-15.0
5270	542	-3.5	49	-12.6
5680	514	-6.1	42	-16.8
6780	446	-14.1	31	-27.5
7080	428	-14.9	MB	MB
7600	400	-18.6	MB	MB
9100	326	-28.8	MB	MB
9510	307	-33.4	MB	MB
11800	219	-52.0		
13120	178	-62.4		
15470	121	-67.6		
16370	104	-65.0		

Ship Horizon Asc. No. 51
 Lat. 20.1°N Long. 156.3°W
 Rise Time 0325, 22 August 1950 GCT
 Surface Observation at Release
 Wind ESE 16 knots
 Weather Scattered clouds
 Clouds 1L8/u

Alt.	Press.	Temp.	R.H.	Dew Pt
5	1014	25.6	83	22.5
540	954	20.7	85	18.1
780	927	20.5	77	16.4
1170	885	16.5	86	14.2
1620	840	16.5	81	13.3
2250	780	13.0	44	1.2
2450	761	12.0	49	1.7
2800	730	9.1	82	6.3
3000	712	8.0	78	4.4
3120	702	9.0	30	-7.5
3400	679	7.9	31	-8.0
3810	646	5.0	34	-9.5*
4660	582	0.0	M	M

* Beginning missing R.H.

Ship Horizon Asc. No. 52
 Lat. 20.1°N Long. 154.7°W
 Rise Time 1005, 22 August 1950 GCT
 Surface Observation at Release
 Wind SE 10 knots
 Weather Scattered clouds
 Clouds 1-L1/u

Alt.	Press.	Temp.	R.H.	Dew Pt
5	1017	24.9	80	21.2
630	947	19.5	90	17.8
680	941	17.8	91	16.4
740	935	19.8	78	15.9
1340	872	15.3	86	13.0
1410	865	15.6	82	12.5
1960	811	12.0	67	6.1
2040	803	13.2	54	4.2
2260	782	12.4	42	0.0
2450	765	13.0	26	-5.9
2750	738	11.1	21	-10.3
2940	721	9.3	34	-5.6
3530	670	5.9	23	-13.5*
3840	646	3.7	M	M
5430	529	-5.4	M	M

* Beginning missing R.H.

Ship Horizon Asc. No. 53
 Lat. 20.5°N Long. 154.8°W
 Rise Time 1504, 22 August 1950 GCT
 Surface Observation at Release
 Wind SE 9 knots
 Weather Scattered clouds
 Clouds 1-L1/u; 1-L2/u; 1-M6/u

Alt.	Press.	Temp.	R.H.	Dew Pt
5	1016	24.7	77	20.5
600	949	20.5	79	16.8
1570	847	14.1	72	9.2
1800	825	13.2	66	7.1
1960	809	13.0	42	0.5
2030	802	13.6	27	-4.9
3140	702	8.1	28	-9.1
3460	675	6.8	38	-6.4
3780	650	5.0	21	-15.4
4010	631	4.0	37	-9.3
4300	609	1.3	42	-10.0
4650	583	-0.5	36	-13.7
4830	570	-0.7	35	-14.2
5980	492	-10.3	32	-23.8
6670	450	-14.9	31	-28.2
6900	437	-15.4	30	-29.0
7550	400	-19.6	MB	MB
7640	395	-20.8	MB	MB
7850	384	-21.0	MB	MB
8280	362	-24.1	MB	MB
9740	295	-36.3	MB	ME

Ship Horizon Asc. No. 54
 Lat. 20.4°N Long. 154.9°W
 Rise Time 2055, 22 August 1950 GCT
Surface Observation at Release
 Wind SE 9 knots
 Weather Scattered clouds
 Clouds 3L2/u; 1M6/u

Alt.	Press.	Temp.	R. H.	Dew Pt
5	1017	27.4	71	21.6
90	1007	25.9	69	19.8
650	945	20.6	85	18.0
870	921	19.9	78	16.0
1970	808	12.5	78	8.8
2230	784	12.0	64	5.5
2360	772	12.7	37	-1.5
2960	719	10.3	51	0.7
4040	632	5.0	43	-6.4
4190	620	3.8	47	-6.4
6550	460	-11.7	30	-25.7
6820	444	-11.7	MB	MB
7600	400	-17.7	MB	MB
8000	380	-20.2	MB	MB
8380	360	-22.1	MB	MB
9420	312	-30.7	MB	MB

Ship Horizon Asc. No. 55
 Lat. 20.6°N Long. 155.3°W
 Rise Time 0427, 23 August 1950 GCT
Surface Observation at Release

FLIGHT UNSUCCESSFUL

Ship Horizon Asc. No. 56
 Lat. 20.3°N Long. 156.1°W
 Rise Time 0944, 23 August 1950 GCT
Surface Observation at Release
 Wind ENE 16 knots
 Weather Precipitation in sight
 Clouds 1L3/u

Alt.	Press.	Temp.	R.H.	Dew Pt
5	1016	25.6	79	21.7
500	958	20.0	80	16.5
1440	859	14.9	72	9.9
1730	831	12.1	81	9.0
1880	816	13.5	63	6.7
2140	792	11.9	61	4.7
2620	748	10.1	36	-4.2
3060	709	7.2	24	-11.9 ¹
3560	667	5.0	M	M
4060	627	2.0	M	M
4720	577	-1.5	M	M
5900	497	-10.8	33	-23.9 ²
6400	466	-13.2	33	-26.0
6700	448	-15.5	33	-28.0
6930	434	-16.3	33	-28.8
7540	400	-19.8	MB	MB
8200	365	-25.3	MB	MB
8760	338	-28.2	MB	MB
9460	307	-34.3	MB	MB
9680	296	-35.2	MB	MB
10130	278	-38.9	MB	MB
10320	270	-41.3		
11600	222	-52.3		
12520	193	-61.0		
13930	153	-67.6		
15050	127	-69.6		
16760	95	-70.7		
19550	60	-62.4		

¹Beginning missing RH
²End Missing RH

5. RADIOSONDE CONSTANT PRESSURE DATA

In these tables are presented the standard pressure data abstracted from the radiosonde observations. The units used are the following:

Surface Pressure:	in millibars
Heights:	in 9.8 geodynamic feet
Temperatures:	in degrees centigrade
Relative Humidity:	in percent

SUMMARY OF CONSTANT PRESSURE DATA

MONTH & YEAR July 1949

SHIP Crest

Asc. No.	Date	Time	Lat.	Long	SURFACE			1000 Mbs.			850 Mbs.			700 Mbs.		
					Press.	Temp	R.H.	Height*	Temp	R.H.	Height	Temp	R.H.	Height	Temp	R.H.
I-1	7-1	1420	32.4	118.4	1018	14.6	88	0050	13.3	92	0505	20.4	MB	1047	11.4	42
2	7-2	0205	32.0	120.0	1018	15.2	88	0050	13.8	90	0505	20.1	MB	1045	10.4	44
3	7-2	1600	31.2	121.3	1019	15.6	84	0052	13.3	87	0505	19.7	MB	1046	10.4	45
4	7-3	0404	30.6	122.6	1018	15.6	89	0050	13.8	91	0502	19.0	MB	1039	11.3	MB
5	7-3	1431	30.2	123.6	1020	15.8	82	0055	14.4	85	0502	17.3	MB	1040	11.2	26
6	7-4	0357	29.5	124.9	1019	17.3	79	0053	16.0	81	0502	16.9	MB	1036	09.8	MB
7	7-4	1433	28.2	123.4	1018	17.5	77	0050	16.0	80	0489	15.3	MB	1033	10.4	MB
8	7-5	0230	28.2	123.2	1017	17.1	77	0048	15.7	80	0495	17.8	MB	1034	11.7	MB
9	7-5	1508	29.0	121.0	1017	16.7	81	0048	15.0	85	0492	16.3	MB	1032	10.3	MB
10	7-6	0231	29.7	119.8	1015	16.4	83	0042	15.3	84	0495	17.4	MB	1031	11.3	MB
11	7-6	1432	30.4	118.6	1016	15.6	86	0045	14.5	89	0495	17.6	MB	1030	11.3	MB
12	7-7	0246	31.1	117.4	1015	15.7	84	0042	14.0	87	0499	18.8	MB	1033	10.3	MB
13	7-7	1440	30.3	116.4	1015	16.2	83	0042	14.8	86	0495	19.2	MB	1034	11.2	MB
14	7-8	0320	29.0	116.8	1014	16.7	84	0039	15.7	88	0495	19.6	MB	1036	12.2	MB
15	7-8	1431	28.4	118.0	1016	16.0	85	0045	15.7	87	0495	19.0	MB	1037	13.4	MB
16	7-9	0315	27.5	119.5	1016	17.3	82	0045	15.2	84	0499	21.4	MB	1041	12.2	MB
17	7-9	1455	26.7	120.8	1017	17.7	78	0040	16.4	80	0495	21.3	MB	1042	11.6	MB
18	7-10	0232	26.1	122.1	1017	18.7	74	0048	17.6	77	0502	23.3	MB	1047	12.4	MB
19	7-10	1447	24.6	121.3	1018	18.8	80	0051	17.3	83	0505	20.3	48	1049	11.0	53
19A	7-10	2015	23.8	120.5	1018	20.6	76	0049	16.3	79	0505	20.4	54	1048	12.6	ME
20	7-11	0240	24.2	119.9	1016	19.4	79	0045	17.8	81	0495	21.2	MB	1043	11.3	42
21	7-11	1437	25.0	118.8	1016	17.7	82	0045	16.3	85	0499	20.6	MB	1039	12.1	MB
22	7-12	0233	26.2	117.6	1015	18.4	89	0042	17.1	91	0502	20.7	50	1042	10.3	52
23	7-12	1432	26.9	116.2	1015	19.2	90	0042	17.2	93	0504	19.6	53	1043	10.0	67
24	7-13	0155	27.6	115.0	1014	18.3	88	0039	19.9	22	0503	20.0	47	1042	09.3	71
24A	7-13	0815	27.7	114.9	1015	19.9	82	0043	20.1	86	0508	20.3	53	1048	10.2	57
25	7-13	1515	27.7	114.9	1015	20.0	83	0042	20.4	75	0505	20.4	37	1046	10.6	36
26	7-14	0247	28.2	115.8	1013	19.7	88	0037	18.2	84	0502	23.3	23	1046	12.3	55
27	7-14	1456	29.6	116.6	1014	19.5	88	0039	18.2	91	0502	24.7	MR	1050	12.7	50
28	7-15	0232	31.2	117.2	1012	17.8	89	0034	16.6	91	0499	23.3	MR	1045	14.1	43

* All altitudes in terms of 9.8 geodynamic feet.

SUMMARY OF CONSTANT PRESSURE DATA

SHIP	Crest	Date		Time		Lat.		Long.		500 Mbs.		300 Mbs.		200 Mbs.		100 Mbs.	
		No.	GCT	GCT	GCT	ON	ON	Height*	Temp	R.H.	Height	Temp	R.H.	Height	Temp	R.H.	Height
I-1		7-1	1420	32.4	118.4	1939	5.3	MB	3177	-53.0	MB	4073	-52.8	5477	-65.0		
2		7-2	0205	32.0	120.0	1931	8.7	50	3167	-35.1	MB	4052	**				
3		7-2	1600	31.2	121.3	1936	5.2	MB	3180	-32.5	MB	4080	-51.0				
4		7-3	0404	30.6	122.6	1929	7.5	MB	3168	-34.3	MB	4060	-52.2				
5		7-3	1431	30.2	123.6	1932	5.0	MB	3176	-33.6	MB	4077	-50.6	5491	-63.2		
6		7-4	0357	29.5	124.9	1926	7.1	MB	3164	-33.7	MB	4026	-53.5				
7		7-4	1433	28.2	123.4	1923	7.5	MB	3166	-27.4	ME	4075	-51.9	5466	-68.1		
8		7-5	0230	28.2	123.2	1927	6.7	MB	3166	-34.2	MB	4056	-54.2				
9		7-5	1508	29.0	121.00	1923	6.3	MB	3165	-34.7	MB						
10		7-6	0231	29.7	119.8	1925	6.0	MB	3167	-35.6	MB						
11		7-6	1432	30.4	118.6	1924	5.0	MB	3169	-34.4	MB	4063	-53.4	5479	-67.3		
12		7-7	0246	31.1	117.4	1922	7.3	MB	3154	-37.7	MB	4034	-55.9				
13		7-7	1440	30.3	116.4	1928	5.0	MB	3171	-34.6	MB	4062	-54.2	5461	-66.6		
14		7-8	0320	29.0	116.8	1937	3.1	MB	3184	-32.7	MB	4076	-55.0				
15		7-8	1431	28.4	118.0	1936	3.5	MB	3192	-30.0	MB	4096	-50.4	5490	-71.7		
16		7-9	0315	27.5	119.5	1939	3.7	MB	3194	-31.7	MB	4086	-54.2				
17		7-9	1455	26.7	120.8	1939	3.6	MB	3200	-30.0	MB	4106	-50.5	5500	-73.0		
18		7-10	0232	26.1	122.1	1944	4.2	MB	3203	-31.2	MB	4103	-52.5				
19		7-10	1447	24.6	121.3	1940	5.7	MB	3191	-33.2	MB	4080	-54.4	5455	-70.2		
19A		7-10	2015	23.8	120.5	1941	4.6	MB	3197	-30.7	MB	4102	-50.0	5504	-70.0		
20		7-11	0240	24.2	119.9	1934	5.5	24	3177	-34.3	MB	4061	-55.1				
21		7-11	1437	25.0	118.8	1933	5.4	41	3190	-29.3	MB	4097	-49.8	5498	-70.2		
22		7-12	0233	26.2	117.6	1933	6.0	72	3180	-33.6	MB	4073	-54.5				
23		7-12	1432	26.9	116.2	1933	5.3	65	3191	-29.8	MB	4092	-50.0				
24		7-13	0155	27.6	115.0	1932	5.4	32	3184	-32.3	MB	4076	-55.2				
24A		7-13	0815	27.7	114.9	1940	5.6	32	3191	-31.3	MB	4091	-52.6				
25		7-13	1515	27.7	114.9	1939	6.3	31	3178	-33.5	MB	4079	-55.4				
26		7-14	0247	28.2	115.8	1945	5.3	42	3199	-31.2	MB						
27		7-14	1458	29.6	116.6	1947	4.2	43	3206	-30.2	43	4112	-51.0				
28		7-15	0232	31.2	117.2	1942	3.9	M	3203	-30.6	M	4105	-52.0				

* All altitudes in terms of 9.8 geodynamic feet.
 ** Extrapolated height.

SUMMARY OF CONSTANT PRESSURE DATA

SHIP CrestMONTH & YEAR August 1949

Asc. No.	Date	Time	Lat.	Long.	SURFACE			1000 Mbs.			850 Mbs.			700 Mbs.		
					Press.	Temp	R.H.	Height*	Temp	R.H.	Height	Temp	R.H.	Height	Temp	R.H.
1	8-4	0206	31.4	117.0	1013	18.3	91	0036	15.4	89	0531	24.7	31	1047	12.3	55
2	8-4	1440	29.2	116.0	1014	18.7	92	0038	17.4	91	0502	24.6	24	1049	12.5	53
3	8-5	0410	28.3	115.2	1013	20.0	91	0036	16.0	91	0495	19.2	33	1031	07.4	68
4	8-5	1503	27.5	115.5	1015	18.9	92	0042	17.5	96	0505	22.4	20	1044	10.9	69
5	8-6	0231	26.7	116.4	1014	19.6	88	0039	16.5	90	0495	22.9	MB	1042	11.5	52
6	8-6	1455	25.0	117.6	1016	19.9	85	0045	13.5	86	0502	22.0	MB	1046	11.0	48
7	8-7	0245	25.2	118.6	1015	20.2	83	0043	19.0	87	0495	21.2	MB	1039	11.0	60
8	8-7	1448	24.1	120.0	1016	20.9	81	0047	19.5	84	0508	22.5	MB	1049	10.7	54
8A	8-7	2045	24.0	120.8	1017	21.9	75	0049	20.2	74	0499	21.9	MB			
9	8-8	0257	24.8	121.4	1016	19.9	80	0045	15.9	83	0495	17.1	32	1034	06.4	66
10	8-8	1518	26.1	122.0	1018	20.4	81	0051	19.0	83	0508	19.5	35	1049	09.7	25
11	8-9	0250	27.3	120.5	1015	18.9	84	0042	17.7	86	0499	18.8	38	1035	08.1	44
12	8-9	1509	27.9	119.4	1016	18.4	76	0044	17.2	79	0499	19.9	40	1034	09.4	MB
13	8-10	0210	28.6	118.3	1014	16.6	74	0039	17.7	77	0495	15.7	42	1025	07.6	MB
14	8-10	1503	29.1	117.2	1015	19.3	69	0042	14.5	72	0492	14.3	30	1015	05.2	MF
15	8-11	0244	29.7	116.2	1015	16.4	73	0042	17.6	75	0495	17.4	MB	1032	10.5	MB
16	8-11	1500	31.2	117.2	1019	17.3	76	0053	15.8	80	0505	14.4	25	1034	07.5	MB
17	8-12	0239	30.4	118.6	1018	17.3	81	0050	15.8	84	0499	16.0	20	1032	08.0	ME
18	8-12	1515	29.7	119.9	1020	17.9	74	0056	16.3	70	0512	16.2	27	1039	10.6	MB
19	8-15	0250	28.9	121.1	1019	18.9	76	0053	17.6	79	0502	14.9	40	1040	11.0	MB
20	8-13	1500	28.2	122.4	1020	18.0	83	0056	17.1	79	0512	13.0	49	1040	08.5	ME
21	8-14	0305	28.4	123.4	1020	18.8	80	0056	16.5	85	0505	16.9	MB	1040	11.0	MB
22	8-14	1445	29.5	124.9	1021	18.2	77	0059	16.8	80	0512	13.6	55	1040	09.7	MB
23	8-15	0310	30.3	123.4	1020	18.3	74	0056	16.0	75	0495	15.4	38	1036	10.1	MB
24	8-15	1457	30.9	122.0	1020	17.7	69	0056	16.2	70	0502	14.5	20	1037	09.0	MB
25	8-16	0410	31.4	120.9	1019	16.7	89	0053	15.2	90	0502	16.8	MB	1036	08.0	MB
26	8-16	1500	31.9	119.5	1018	16.2	78	0050	14.8	80	0495	16.4	17	1032	09.7	MB
27	8-17	0210	32.5	118.4	1016	16.6	86	0045	15.8	86	0499	19.3	MB	1038	11.6	MB

* All altitudes in terms of 9.6 geodynamic feet

SUMMARY OF CONSTANT PRESSURE DATA

SHIP Crest

MONTH & YEAR September 1949

Asc. No.	Date	Time	Lat. °N	Long. °W	SURFACE					1000 Mbs.			950 Mbs.			700 Mbs.		
					Press.	Temp	R.H.	Height*	Temp	R.H.	Height	Temp	R.E.	Height	Temp	R.H.		
1	9-4	1540	30.2	116.5	1010	18.9	81	0029	17.8	83	0496	22.4	28	1031	11.8	49		
2	9-5	0300	28.5	115.7	1008	19.7	88	0023	19.0	88	0496	23.5	25	1028	09.9	49		
3	9-5	1432	27.1	115.9	1009	20.0	90	0026	19.4	90	0489	22.6	23	1032	11.3	51		
4	9-6	0320	26.2	117.1	1008	20.0	91	0023	19.4	93	0482	21.7	30	1028	10.3	52		
5	9-6	1440	25.4	118.3	1009	20.6	86	0026	19.8	87	0486	23.0	34	1029	11.8	43		
6	9-7	0232	24.4	119.7	1008	22.4	80	0023	21.8	82	0482	22.0	33	1029	11.7	52		
7	9-7	1503	24.2	120.8	1010	21.6	87	0029	20.7	88	0489	19.7	57	1031	10.8	48		
8	9-8	0240	25.9	122.2	1012	20.3	88	0034	19.4	89	0495	20.6	34	1037	11.4	28		
9	9-8	1432	26.3	121.5	1012	20.6	90	0034	19.8	91	0495	19.7	68	1036	11.3	69		
10	9-9	0231	27.2	120.1	1010	20.7	93	0029	20.2	93	0486	16.6	50	1028	11.8	90		
11	9-9	1434	27.9	118.9	1012	21.4	99	0034	20.4	98	0492	16.0	94	1031	11.6	43		
12	9-10	0240	28.9	118.2	1012	21.4	86	0034	20.4	89	0495	17.9	75	1034	10.7	49		
13	9-10	1431	29.2	117.0	1012	20.4	91	0034	19.5	92	0495	19.0	60	1034	11.0	52		
14	9-11	0300	29.8	116.2	1010	20.2	87	0029	19.3	90	0489	19.0	59	1020	11.1	50		
15	9-11	1502	31.2	117.2	1013	17.7	36	0036	16.8	36	0492	17.8	62	1032	10.7	36		
16	9-12	0250	30.3	118.7	1014	18.2	80	0039	17.0	82	0492	20.1	MB	1033	11.6	35		
17	9-12	1435	29.5	120.1	1017	18.3	81	0048	17.2	79	0499	17.4	MB	1035	09.5	28		
18	9-13	0232	28.7	121.6	1017	18.8	35	0048	17.6	86	0499	14.6	25	1035	11.0	43		
19	9-13	1438	27.9	123.1	1018	19.4	78	0051	17.4	60	0499	13.7	25	1031	11.0	MB		
20	9-14	0305	29.4	124.6	1018	19.6	69	0051	18.3	70	0502	10.4	63	1034	10.7	MB		
21	9-14	1448	30.2	123.6	1019	18.7	82	0053	17.0	78	0502	17.3	MB	1038	11.4	MP		
22	9-15	0231	30.8	122.3	1016	18.5	84	0045	17.0	87	0499	17.3	MB	1035	10.6	MB		
23	9-15	1458	31.4	120.9	1017	16.7	93	0048	15.4	100	0502	17.8	MB	1039	11.5	MB		
24	9-16	0235	32.1	119.5	1014	16.7	92	0039	15.4	88	0495	20.6	MB	1037	13.9	MB		
25	9-16	1432	32.7	118.2	1014	16.1	91	0039	14.6	93	0495	19.1	MB	1033	12.0	MB		

* All altitudes in terms of 9.8 geodynamic feet

SUMMARY OF CONSTANT PRESSURE DATA

SHIP	Crest	MONTH & YEAR																	
		September 1949				200 Mbs.				100 Mbs.									
Asc. No.	Date	Time	GCT	Lat.	Long.	500 Mbs.	300 Mbs.	200 Mbs.	100 Mbs.	R.H.	Height	Temp	R.H.	Height	Temp	R.H.	Height	Temp	R.H.
				ON	OW	Height*	Temp	R.H.	Height	Temp	R.H.	Height	Temp	R.H.	Height	Temp	R.H.	Height	Temp
III-1	9-4	1540		30.2	116.5	1921	-8.8	57	3161	-31.8	MB	4065	-50.4						
2	9-5	0300		28.5	115.7	1913	-10.5	33	3145	-33.1	MB	4037	-54.7						
3	9-5	1432		27.1	115.9	1924	-7.0	28	3175	-28.8	MB	4084	-50.4		5478	-71.9			
4	9-6	0320		26.2	117.1	1918	-9.0	MB	3170	-31.0	MB								
5	9-6	1440		25.4	118.3	1923	-6.3	41	3165	-28.0	MB	4099	-48.7		5494	-74.8			
6	9-7	0232		24.4	119.7	1923	-6.7	37	3186	-29.3	MB	4094	-51.2						
7	9-7	1503		24.2	120.8	1924	-2.3	MB	3190	-28.9	MB	4099	-50.6		5480	-77.9			
8	9-8	0240		25.9	122.2	1934	-1.4	MB	3198	-30.2	MB	4103	-51.6		5479**				
9	9-8	1432		26.3	121.5	1936	-1.3	MB	3198	-30.5	MB	4098	-52.6		5474	-78.0			
10	9-9	0231		27.2	120.1	1938	0.7	MB	3212	-27.0	MB	4127	-49.2						
11	9-9	1434		27.9	118.9	1930	-0.4	MB	3193	-31.5	MB	4088	-53.5		5461	-73.4			
12	9-10	0240		28.9	118.2	1932	-1.5	MB	3188	-31.6	MB	4088	-52.7						
13	9-10	1431		29.2	117.0	1926	-3.2	MB	3185	-31.5	MB	4091	-51.4		5487	-72.0			
14	9-11	0300		29.8	116.2	1922	-4.1	MB	3180	-30.7	MB	4086	-51.4						
15	9-11	1502		31.2	117.2	1928	-3.7	MB	3151	-32.6	MB	4080	-52.0		5475	-71.1			
16	9-12	0250		30.3	118.7	1934	-2.8	MB	3186	-32.6	MB	4081	-53.0						
17	9-12	1435		29.5	120.1	1929	-4.5	MB	3175	-35.0	MB	4060	-55.6		5423	-69.2			
18	9-13	0232		28.7	121.6	1932	-2.7	MB	3189	-31.2	MB	4091	-51.5		5473	-73.2			
19	9-13	1438		27.9	123.1	1925	-5.0	MB	3156	-38.9	MB	4022	-82.7						
20	9-14	0305		29.4	124.6	1933	-3.3	MB	3169	-33.4	MB	4067	-52.0						
21	9-14	1448		30.2	123.6	1937	-2.4	MB	3190	-32.6	MB	4092	-52.2		5480	-69.7			
22	9-15	0231		30.8	122.3	1929	-5.5	MB	3173	-33.8	MB	4065	-53.5		5445	-72.9			
23	9-15	1458		31.4	120.9	1934	-6.1	MB	3174	-33.5	MB	4069	-52.2		5466	-70.8			
24	9-16	0235		32.1	119.5	1937	-5.0	MB	3177	-35.0	MB	4066	-55.1		5437	-71.6			
25	9-16	1432		32.7	118.2	1927	-6.8	MB	3159	-36.0	MB	4038	-56.7		5412	-71.2			

* All altitudes in terms of 9.8 geodynamic feet

** Extrapolated

SUMMARY OF CONSTANT PRESSURE DATA

SHIP Crest

MONTH & YEAR July 1950

Asc. No.	Date	Time	Lat.	Long.	SURFACE			1000 Mbs.			850 Mbs.			700 Mbs.		
					Press.	Temp	R.H.	Height*	Temp	R.H.	Height	Temp	R.H.	Height	Temp	R.H.
1-1	7-7	1440	34.1	119.6	1013	13.3	96	0033	11.9	96	0493	20.1	37	1032	09.4	49
2	7-8	0315	34.8	122.0	1011	14.8	86	0031	14.0	86	0488	21.0	27			
3	7-8	1410	35.6	121.3	1012	13.9	94	0037	13.0	94	0494	20.7	42	1035	10.5	39
4	7-9	0141	35.2	122.1	1011	14.9	88	0032	13.7	90	0487	19.7	30	1027	09.3	67
5	7-9	1641	34.1	121.2	1016	15.8	93	0043	15.4	91	0497	14.2	95	1030	07.0	96
6	7-10	0221	33.6	122.3	1015	15.6	99	0042	14.3	99	0492	12.6	100	1022	05.7	93
7	7-10	1425	32.8	123.9	1018	15.0	100	0051	13.8	100	0500	11.9	100	1033	07.6	51
8	7-11	0138	32.2	125.3	1020	15.4	90	0056	14.1	92	0506	14.9	74	1040	07.7	M
9	7-11	0340	31.9	125.7	1021	15.7	89	0056	12.5	92	0501	13.6	39	1031	05.8	30
10	7-11	1420	30.8	124.7	1021	15.8	91	0059	13.8	93	0509	13.1	65	1042	06.0	27
11	7-12	0210	30.7	123.3	1019	15.8	86	0053	14.2	85	0508	19.5	25	1043	08.2	30
12	7-12	1500	31.5	122.0	High winds & heavy sea prevented successful balloon release											
13	7-13	0300	32.2	120.3	High winds & heavy sea prevented successful balloon release											
14	7-13	1908	33.1	118.7	1012	18.3	87	0033	16.4	85	0495	26.9	20	1043	14.0	MB
15	7-14	0155	33.4	117.9	1010	19.2	85	0028	17.2	87	0491	26.0	19	1040	14.3	22
16	7-14	1452	33.5	119.7	1011	15.6	97	0030	14.3	97	0492	24.8	24	1039	13.0	50
17	7-15	0254	32.6	121.2	1011	14.7	91	0030	13.9	93	0490	23.8	27	1038	15.0	23
18	7-15	1518	32.3	122.6	1012	15.0	91	0034	14.3	92	0492	23.0	20	1036	13.8	43
19	7-16	0205	33.1	121.6	1011	14.7	91	0031	13.8	93	0491	23.2	23	1038	13.3	53
20	7-16	1625	33.7	119.7	1012	15.6	96	0034	14.4	94	0490	21.6	22	1034	12.4	48
21	7-17	0215	33.3	118.3	1011	18.6	78	0030	17.8	80	0487	21.9	21	1031	12.1	55
22	7-17	1547	32.9	117.7	1012	18.6	85	0034	17.6	86	0491	22.9	23	1035	12.0	53
23	7-18	0350	32.2	118.7	1012	18.1	77	0034	15.8	84	0488	19.2	59	1028	10.3	M
24	7-18	1445	32.0	119.2	1013	15.8	96	0036	14.4	96	0491	19.5	43	1032	11.0	37
25	7-19	0215	31.3	120.6	1013	20.3	62	0037	17.9	70	0490	19.6	31	1030	11.0	42
26	7-19	1451	30.5	121.4	1016	17.5	82	0046	15.7	82	0493	18.2	MB	1035	12.3	35
27	7-20	0205	30.7	120.3	1016	18.6	78	0016	17.3	81	0498	20.3	MB	1042	13.2	26

* All altitudes in terms of 9.8 geodynamic feet.

SUMMARY OF CONSTANT PRESSURE DATA

SHIP Crest MONTH & YEAR July 1950

Asc. No.	Date	Time	Lat.	Long.	500 Mbs.		300 Mbs.		200 Mbs.		100 Mbs.	
					Height*	Temp	R.H.	Height	Temp	R.H.	Height	Temp
1-1	7-7	1440	34.1	119.6	1914	-9.6	79					
2	7-8	0315	34.8	122.0	1921	-7.2	MB	3159	-34.0	MB		
3	7-8	1410	35.6	121.3	1911	-8.3	MB	3149	-33.6	MB		
4	7-9	0141	35.2	122.1	1912	-8.7	79					
5	7-9	1641	34.1	121.2	1905	-7.6	MB					
6	7-10	0221	33.6	122.3								
7	7-10	1425	32.8	123.9	1920	-10.2	MB					
8	7-11	0138	32.2	125.3	1903	-12.4	MB	3130	-36.9	MB	4016	-54.6
9	7-11	0340	31.9	125.7	1926	-5.1	MB	3167	-32.8	MB		5409**
10	7-11	1420	30.8	124.7	1934	-3.3	MB	3180	-32.6	MB		
11	7-12	0210	30.7	123.3								
12	7-12	1500	31.5	122.0								
13	7-13	0300	32.2	120.3								
14	7-13	1908	33.1	118.7	1953	-2.0	MB	3213	-29.0	48	4122	-50.0
15	7-14	0155	33.4	117.9	1944	-3.5	MB	3199	-31.2	MB	4099	-52.4
16	7-14	1452	33.5	119.7	1942	-4.6	MB	3194	-31.5	MB		
17	7-15	0254	32.6	121.2	1940	-4.1	MB	3195	-30.6	MB		
18	7-15	1518	32.3	122.6	1937	-3.8	MB	3198	-30.7	MB		
19	7-16	0205	33.1	121.6	1939	-3.0	MB	3198	-31.5	MB	4097	-51.7
20	7-16	1625	33.7	119.7	1930	-4.3	MB					
21	7-17	0215	33.3	118.3	1925	-4.2	MB	3182	-30.3	MB	4085	-52.3
22	7-17	1547	32.9	117.7	1932	-3.4	MB	3193	-29.2	MB	4102	-49.9
23	7-18	0350	32.2	118.7	1925	-3.1	MB	3180	-32.1	MB	4080	-52.8
24	7-18	1445	32.0	119.2	1929	-3.2	MB	3185	-31.3	MB	4091	-50.2
25	7-19	0215	31.3	120.6	1925	-4.9	32	3173	-32.1	MB	4076	-52.0
26	7-19	1431	30.5	121.4	1930	-4.8	24	3181	-30.4	MB		
27	7-20	0205	30.7	120.3	1938	-4.1	MB	3187	-31.9	MB		

* All altitudes in terms of 9.8 geodynamic feet.

** Extrapolated heights.

SUMMARY OF CONSTANT PRESSURE DATA

SHIP		Crest		MONTH & YEAR		August 1950			
Asc. No.	Date	Time	Lat.	Long.	SURFACE	1000 Mbs.	850 Mbs.	700 Mbs.	
	GCT	GCT	°N	°W	Press., Temp R.H.	Height* Temp R.H.	Height Temp R.H.	Height Temp R.H.	R.H.
11-1	8-8	0223	33.3	118.2	1015 18.8 81	0043 17.6 M	0503 17.4 33	1039 10.1 MB	
2	8-8	1545	34.4	120.4	1018 17.9 73	0050 13.9 72	0508 17.0 26	1040 07.4 16	
3	8-9	0242	35.7	121.6	1017 15.6 81	0047 13.8 35	0502 16.6 24	1033 05.2 27	
4	8-9	1545	36.9	122.7	1019 14.9 84	0057 11.8 88	0497 13.7 26	1025 04.3 MB	
5	8-10	0259	37.6	123.6	1017 15.3 80	0047 13.8 88	0499 14.9 31	1028 05.0 MB	
6	8-10	1556	36.8	125.3	1019 16.8 85	0053 15.7 88	0501 12.5 44	1029 05.2 32	
7	8-11	0215	36.3	126.5	1020 17.4 82	0057 16.0 86	0505 11.4 61	1031 05.6 MB	
8	8-11	1515	35.6	128.1	1022 19.2 73	0063 15.0 85	0510 11.9 36	1036 04.2 25	
9	8-12	0205	34.4	127.9	1023 18.1 82	0054 16.2 82	0512 13.6 35	1040 05.1 23	
10	8-12	1525	33.9	126.6	1022 18.3 80	0061 16.5 84	0511 13.8 33	1040 05.7 30	
11	8-13	0304	34.5	125.2	1020 17.2 87	0057 15.0 92	0509 15.0 24	1039 05.3 MB	
12	8-13	1502	35.2	123.8	High Winds				
13	8-14	0240	35.7	122.5	1017 15.6 95	0046 14.4 97	0504 18.7 30	1040 07.8 29	
14	8-15	1554	33.3	122.9	1018 16.1 89	0049 13.8 91	0507 19.4 21	1046 10.6 MB	
15	8-16	0300	32.6	124.2	1017 17.7 93	0047 15.7 96	0504 18.4 MB	1044 10.0 5.0	
16	8-16	1555	31.8	125.9	1019 17.8 95	0054 16.3 97	0510 18.3 30	1047 07.0 64	
17	8-17	0207	30.6	124.1	1017 18.9 84	0048 14.7 98	0506 19.3 36	1043 08.5 41	
18	8-17	1530	31.1	122.7	1019 17.8 90	0053 14.0 96	0513 21.4 M	1056 11.7 M	
19	8-18	0230	31.8	121.3	Power failure				
20	8-18	0402	31.8	121.2	1016 17.2 94	0045 15.8 93	0511 23.7 23	1055 11.7 20	
21	8-18	1524	32.5	119.8	1015 16.7 86	0042 13.6 97	0507 26.4 MB	1053 11.4 32	
22	8-18	2220	32.9	118.9	1013 17.2 87	0036 15.6 87	0507 28.0 23	1056 12.9 M	

* All altitudes in terms of 9.8 geodynamic feet.

SUMMARY OF CONSTANT PRESSURE DATA

SHIP		Crest		MONTH & YEAR August 1950														
Asc. No.	Date	Time	Lat.	Long.	500 Mbs.	300 Mbs.	200 Mbs.	100 Mbs.	Height*	R.H.	Temp	R.H.	Height	Temp	R.H.	Height	Temp	R.H.
	GCT	GCT	°N	°W	Temp	Temp	Temp	Temp										
11-1	8-8	0223	33.5	118.2														
2	8-8	1545	34.4	120.4														
3	8-9	0242	35.7	121.6	1923	-9.3	MB											
4	8-9	1545	36.9	122.7	1907	-12.1	MB	3114**										
5	8-10	0259	37.6	123.6	1896	-12.8	MB	3099	-41.0		3984	--48.1						
6	8-10	1556	36.8	125.3	1896	-14.0	MB	3101	-41.2		3985	--49.2						
7	8-11	0215	36.3	126.5	1903	-11.5	MB											
8	8-11	1515	35.6	128.1	1904	-12.8	MB	3109	--42.8		3978	--50.7						
9	8-12	0205	34.4	127.9	1907	-11.6	MB	3117	-42.0		3987	--50.4						
10	8-12	1525	33.9	126.6	1914	-12.1	MB											
11	8-13	0304	34.5	125.2	1914**	-12.7	MB	3111	-42.0		3989	--54.4		5428				--60.6
12	8-13	1502	35.2	123.8	1911**													
13	8-14	0240	35.7	122.5	1922	-9.7	MB	3141	-39.7	69								
14	8-15	1554	33.3	122.9	1935	-8.9	MB	3165	-35.4	MB	4051	--55.4		5467				--59.6
15	8-16	0300	32.6	124.2	1929	-9.4	32	3154	-36.4	82								
16	8-16	1555	31.8	125.9	1926	-11.2	94	3153	-37.4	97								
17	8-17	0207	30.6	124.1	1924	-8.5	MB											
18	8-17	1530	31.1	122.7	1946	-7.7	32	3183	-35.0	ME	4070**							
19	8-18	0230	31.8	121.3														
20	8-18	0402	31.8	121.2	1950	-6.6	MB											
21	8-18	1524	32.5	119.8	1946	-7.0	MB	3184	-34.0	78	4075**							
22	8-18	2220	32.9	118.9	1947	-6.8	30											

* All altitudes in terms of 9.8 geodynamic feet.
 ** Extrapolated height.

SUMMARY OF CONSTANT PRESSURE DATA

SHIP CrestMONTH & YEAR September 1950

Asc. No.	Date	Time	Lat. °N	Long. °W	SURFACE			1000 Lbs.			850 Mbs.			700 Lbs.					
					Press.	Temp	R.H.	Height*	Temp	R.H.	Height	Temp	R.H.	Height	Temp	R.H.	Height		
III-1	9-7	0315	35.9	121.8															
2	9-7	1516	35.5	123.1	Release point missing														
3	9-8	0242	34.9	124.4	1013	16.6	79	0036	15.5	81	0485	18.4	29	1020	08.7				LB
4	9-8	1514	34.3	125.9	1012	16.7	79	0034	15.6	80	0481	M	M	1015	08.4				MB
5	9-9	0243	33.5	127.3	1016	16.9	76	0045	15.3	78	0491	15.5	29	1023	06.3				43
6	9-9	1525	32.6	129.2	1018	18.6	80	0051	17.2	82	0497	13.9	22	1026	05.7				35
7	9-10	0231	32.0	130.3	1020	19.2	64	0057	17.7	68	0503	07.4	60	1034	07.0				28
8	9-10	1502	31.3	131.9	1021	20.3	79	0059	18.2	83	0507	08.6	97	1030	05.6				26
9	9-11	0212	30.5	133.5	1022	20.3	65	0060	18.6	70	0508	13.0	59	1037	05.3				40
10	9-11	1459	29.6	135.4	1020	22.1	70	0057	20.2	74	0513	10.0	81	1046	04.7				27
11	9-12	0335	28.7	137.1	1020	19.5	90	0057	17.0	91	0505	08.4	99	1026	02.5				MF
12	9-12	1510	27.7	136.5	1019	21.7	75	0054	19.6	82	0505	09.7	93	1030	06.7				MB
13	9-13	0229	26.3	135.3	1020	21.9	69	0056	20.3	70	0508	08.7	88	1037	09.2				34
14	9-13	1500	25.1	134.5	1019	22.4	77	0053	21.1	78	0506	10.0	70	1037	09.2				M
15	9-14	0300	25.7	133.2	Instrument failure														
16	9-14	1514	26.6	131.6	Instrument failure														
17	9-15	0244	27.6	129.6	1022	22.2	51	0061	20.3	57	0510	06.1	90	1039	09.4				MB
18	9-15	1514	28.5	127.9	1022	21.7	68	0061	19.7	73	0511	08.8	53	1042	08.5				M
19	9-16	0245	28.9	127.0	1021	20.6	79	0058	19.0	84	0508	12.0	68	1036	06.1				M
20	9-16	1525	29.8	125.1	1018	21.1	88	0052	19.9	89	0504	12.0	64	1032	06.7				M
21	9-17	0220	30.6	123.7	1016	21.1	83	0045	17.8	94	0496	11.3	91	1023	06.0				MB
22	9-17	1459	31.3	122.2	1013	20.0	80	0036	19.0	82	0486	09.4	76	1010	05.6				MB
23	9-18	0312	32.0	120.9	1013	20.2	79	0036	16.6	82	0485	09.6	82	1005	01.2				38
					1014	20.0	69	0038	19.0	72	0488	09.3	76	1008	01.0				62

* All altitudes in terms of 9.8 geodynamic feet.

SUMMARY OF CONSTANT PRESSURE DATA

SHIP CrestMONTE & YEAR September 1950

Asc. No.	Date	Time	Lat.	Long.	500 Mbs.		300 Mbs.		200 Mbs.		100 Mbs.	
					Height*	Temp	R.H.	Height	Temp	R.H.	Height	Temp
III-1	9-7	0315	35.9	121.8								
2	9-7	1516	35.5	123.1	1900	-11.3	MB	3114	-39.0	74		
3	9-8	0242	34.9	124.4	1890	-13.5	66	3100	-39.8	ME		
4	9-8	1514	34.3	125.9	1899	-11.2	MB	3113	-39.0	70	4000	-46.5
5	9-9	0243	33.5	127.3	1890	-13.3	MB	3097	-40.7			
6	9-9	1525	32.6	129.2	1913	-9.5	MB					
7	9-10	0231	32.0	130.3	1909	-8.7	MB	3138	-37.0	ME	4017**	
8	9-10	1502	31.3	131.9	1914	-9.6	MB	3142	-36.2	ME		
9	9-11	0212	30.5	133.5	1924	-11.3	MB					
10	9-11	1452	29.6	135.4	1896	-14.3	MB					
11	9-12	0335	28.7	137.1	1908	-11.2	MB	3128	-39.3	ME		
12	9-12	1510	27.7	136.5	1920	-8.9	M	3155	-35.5	M		
13	9-13	0229	26.3	135.3	1926	-6.5	MB	3166	-34.6	ME		
14	9-13	1500	25.1	134.5								
15	9-14	0300	25.7	133.2								
16	9-14	1514	26.6	131.6	1932	-4.5	MB	3181	-33.1	ME	4071	-55.0
17	9-15	0244	27.6	129.6	1933	-5.0	M	3176	-34.4	M		
18	9-15	1514	28.5	127.9	1918**	-6.6	M					
19	9-16	0245	28.9	127.0	1921**							
20	9-16	1525	29.8	125.1	1906	-7.0	MB	3138	-38.0	MB	4012	-57.4
21	9-17	0220	30.6	123.7	1886	-8.2	MB	3115	-38.8	MB		
22	9-17	1459	31.3	122.2	1872	-11.6	MB					
23	9-18	0312	32.0	120.9	1879	-10.6	M	3106**				

* All altitudes in terms of 9.8 geodynamic feet.

** Extrapolated height.

SUMMARY OF CONSTANT PRESSURE DATA

SHIP	Horizon	MONTH & YEAR		700 Mbs.		1000 Mbs.		850 Mbs.		R.H.	Height	Temp	R.H.	Height	Temp	R.H.	
		Date	Time	Lat.	Long.	Press.	Temp	R.H.	Height*								Temp
1		7-28	1546	30.2	119.2	1017	17.2	95	0049	15.0	95	0506	20.0	48	1047	9.0	54
2		7-29	0305	28.8	120.4	1018	17.4	84	0052	14.9	85	0506	19.7	38	1045	9.7	40
3		7-29	1525	27.3	121.6	1018	18.9	81	0052	17.3	82	0506	18.9	33	1043	9.9	34
4		7-30	0315	27.5	121.5	1015	18.6	84	0044	17.4	87	0497	16.1	24	1035	10.7	30
5		7-30	1522	26.4	122.6	1016	19.7	76	0047	18.5	77	0496	15.3	28	1034	10.6	20
6		7-31	0233	24.9	123.8	1014	20.8	79	0041	19.5	80	0493	18.0	90	1031	9.8	20
7		7-31	1507	23.9	124.7	1015	19.6	79	0044	18.5	81	0494	15.6	100	1032	9.7	50
8		8-1	0258	22.5	125.8	1015	22.0	59	0044	20.7	64	0498	15.6	59	1034	7.7	53
9		8-1	1542	21.1	127.0	1016	23.0	75	0047	21.1	78	0502	17.1	56	1037	8.1	43
10		8-2	0331	20.8	127.3	1016	23.5	77	0047	22.4	80	0510	12.0	55	1047	8.9	39
11		8-2	1541	19.5	128.3	1017	24.1	71	0050	22.5	73	0506	16.8	47	1040	8.7	25
12		8-3	0318	19.5	128.3	1015	23.8	75	0044	22.5	72	0501	19.7	28	1040	10.5	26
13		8-3	1502	18.9	129.0	1015	23.5	80	0044	22.3	80	0504	15.0	66	1041	10.2	58
14		8-4	0320	17.5	130.2	1014	24.9	87	0042	23.7	87	0499	16.3	92	1036	10.7	28
15		8-4	1536	16.1	131.6	1012	26.2	90	0036	25.5	90	0499	17.9	84	1034	10.2	66
16		8-5	0309	14.7	132.8	1012	26.1	84	0036	25.4	84	0499	16.3	87	1052	9.8	75
17		8-5	1513	14.4	133.1	1013	26.1	83	0039	25.5	84	0502	16.6	88	1039	8.7	77
18		8-6	0324	14.4	133.1	1013	25.0	91	0039	24.2	92	0501	17.3	95	1036	8.3	61
19		8-6	1634	13.9	133.4	1013	26.7	66	0039	25.8	68	0500	18.5	51	1037	8.6	24
20		8-7	0326	13.5	133.7	1012	26.3	71	0036	25.2	73	0496	15.0	72	1032	8.6	29
21		8-7	1656	12.7	134.5	1012	26.1	84	0036	25.4	85	0499	16.6	89	1037	8.5	80
22		8-8	0330	12.7	134.3	1011	26.3	83	0034	25.5	82	0496	15.3	94	1031	8.7	78
23		8-8	1716	10.9	135.5	1012	25.5	77	0036	24.0	79	0500	15.8	86	1036	8.9	84
24		8-9	0348	10.4	135.9	1010	24.8	90	0031	24.0	91	0492	16.3	92	1031	10.6	72
25		8-9	1510	09.7	136.4	1010	26.0	83	0029	25.3	83	0492	16.5	84	1028	8.5	82

* All altitudes are in terms of 9.8 geodynamic feet.

SUMMARY OF CONSTANT PRESSURE DATA

MONTH & YEAR July & August 1950

SHIP Horizon

No.	Date	Time	Lat. °N	Long. °W	500 Mbs.		300 Mbs.		200 Mbs.		100 Mbs.			
					Height*	Temp	R.H.	Height	Temp	R.H.	Height	Temp	R.H.	Height
1	7-28	1546	30.2	119.2	1933	-7.8	36	3166	-35.7	MB	4061	-53.0	5458	-64.7
2	7-29	0305	28.8	120.4	1930	-7.6	25	3166	-34.8	MB	4065	-50.4		
3	7-29	1525	27.3	121.6	1929	-7.3	39							
4	7-30	0315	27.5	121.5	1924	-7.9	53							
5	7-30	1522	26.4	122.6	1921	-8.5	41	3159	-33.0	MB	4059	-50.3	5490	-63.3
6	7-31	0233	24.9	123.8	1917	-8.5	37	3146	-34.7	MB	4041	-51.4		
7	7-31	1507	23.9	124.7	1915	-10.3	56							
8	8-1	0258	22.5	125.8	1913	-10.0	52							
9	8-1	1542	21.1	127.0	1918	-9.7	59	3160	-33.0	MB				
10	8-2	0331	20.8	127.3	1933	-5.7	MB	3181	-31.0	MB				
11	8-2	1541	19.5	128.3	1929	-5.2	MB							
12	8-3	0318	19.5	128.3	1929	-6.5	MB							
13	8-3	1502	18.9	129.0	1931	-5.5	MB	3209	-29.7	MB				
14	8-4	0320	17.5	130.2	1924	-6.7	MB	3174	-32.0	MB	4076	-54.3	5434	-73.3
15	8-4	1536	16.1	131.6	1929	-5.0	MB	3201	-31.0	MB	4099	-53.0		
16	8-5	0309	14.7	132.3	1907	-7.8	84	3155	-31.7	MB	4063	-53.0		
17	8-5	1513	14.4	133.1	1929	-6.8	49	3179	-32.7	MB	4073	-53.4	5445	-72.4
18	8-6	0324	14.4	133.1	1924	-4.6	MB	3176	-32.0	MB	4074	-54.0	5455	-73.9
19	8-6	1634	13.9	133.4	1927	-3.4	MB	3183	-31.5	MB	4082	-54.0		
20	8-7	0326	13.5	133.7	1917	-6.1	33	3167	-33.0	MB				
21	8-7	1656	12.7	134.5	1926	-6.4	91	3195	-32.0	M	4091	-54.3	5469	-74.3
22	8-8	0330	12.7	134.3	1922	-6.0	84	3174	-31.0	97	4074	-53.8		
23	8-8	1716	10.9	135.5	1928	-5.9	76	3180	-31.1	49	4078	-54.1	5451	-72.1
24	8-9	0348	10.4	135.9	1924	-5.4	80	3176	-31.4	98	4077	-52.3	5446	-77.1
25	8-9	1510	9.7	135.4	1915	-5.7	77	3167	-30.5	41	4067	-52.5		

* All altitudes in terms of 9.8 geodynamic feet.

SUMMARY OF CONSTANT PRESSURE DATA

SHIP		Horizon		MONTH & YEAR												
				August 1950			August 1950			August 1950						
Asc. Nc.	Date	Time	Lat. °N	Long. °W	SURFACE		1000 Mbs.		850 Mbs.		700 Mbs.					
					Press.	Temp	R.H.	Height*	Temp	R.H.	Height	Temp	R.H.	Height	Temp	R.H.
26	8-10	0331	09.5	136.4	1010	25.4	88	0031	25.2	83	0494	17.8	85			
27	8-10	1531	08.5	136.8	1010	26.2	84	0031	25.4	86	0493	15.2	89	1029	9.3	79
28	8-11	0327	07.3	137.2	1009	26.0	72	0033	25.4	73	0495	16.1	90	1034	10.3	78
29	8-11	1506	06.1	138.1	1010	25.4	72	0031	24.9	73	0491	15.0	86	1025	09.2	80
30	8-12	0319	04.9	139.6	1010	25.4	74	0031	24.7	76	0490	17.2	78	1018	09.4	74
31	8-12	1549	04.6	140.0	1011	25.1	75	0033	24.1	76	0492	16.7	43	1026	07.3	82
32	8-13	0338	05.2	141.1	1010	26.1	71	0031	25.2	72	0489	14.0	76	1025	09.2	50
33	8-13	1605	05.9	141.8	1011	26.3	75	0033	24.6	73	0493	14.8	76	1029	09.0	60
34	8-14	0411	06.1	141.1	1011	26.4	72	0032	25.7	72	0493	14.8	86	1029	08.3	70
35	8-14	1451	07.3	143.0	1010	25.6	75	0030	24.9	76	0491	15.2	89	1027	08.9	86
36	8-15	0305	08.3	143.7	1009	23.2	98	0028	22.8	98	0488	15.9	93	1024	08.7	95
37	8-15	1500	09.0	144.4	1010	25.5	83	0031	25.0	84	0494	15.3	89	1029	07.8	95
38	8-16	0322	09.9	145.2	1010	27.8	75	0031	26.8	76	0494	16.0	83	0997	09.2	78
39	8-16	1451	10.5	145.7	1010	26.0	83	0031	25.5	83	0494	16.8	86	1032	09.5	63
40	8-17	0306	10.7	146.0	1011	25.4	87	0033	24.8	88	0495	16.1	95	1031	08.5	90
41	8-17	1621	11.7	146.9	1013	26.0	84	0039	25.3	85	0502	16.6	90	1038	08.2	80
42	8-18	0259	12.9	148.4	1012	26.4	85	0036	25.8	86	0500	16.9	91	1036	09.0	82
43	8-18	1511	13.9	149.3	1012	25.7	86	0036	24.7	87	0498	16.6	76	1033	07.5	70
44	8-19	0309	14.3	149.7	1011	26.0	87	0034	25.2	88	0496	16.2	90	1034	09.9	70
45	8-19	1711	14.8	151.8	1013	25.2	90	0036	24.6	90	0499	16.4	92	1035	08.6	83
46	8-20	0324	14.6	152.0	1011	26.4	83	0034	25.8	84	0497	17.8	71	1036	09.5	58
47	8-20	1520	15.7	152.6	1012	25.7	88	0036	24.8	88	0497	16.1	81	1034	09.1	67
48	8-21	0418	17.7	153.6	1014	25.8	81	0042	24.9	81	0504	18.6	36	1041	09.1	31
49	8-21	1500	19.5	154.8	1016	25.0	81	0048	23.9	82	0507	15.1	73	1042	08.6	22
50	8-21	2052	19.9	155.0	1017	27.7	70	0051	24.6	76	0512	15.4	72	1047	10.1	24

* All altitudes in terms of 9.8 geodynamic feet.

SUMMARY OF CONSTANT PRESSURE DATA

SHIP Horizon

MONTH & YEAR August 1950

Asc. No.	Date		Lat. °N	Long. °W	500 Mbs.		300 Mbs.		200 Mbs.		100 Mbs.	
	GCT	GCT			Height*	Temp	R.H.	Height	Temp	R.H.	Height	Temp
26	8-10	0331	9.5	136.4			3166	-31.1	MB			
27	8-10	1531	8.5	136.8	1919	-5.3	3184	-29.7	MB	4084	-54.0	5444
28	8-11	0327	07.3	137.2	1928	-4.7	3171	-30.0	MB	4071	-53.8	5456
29	8-11	1506	06.1	139.1	1915	-4.2	3175	-31.5	ME	4071	-54.0	5424
30	8-12	0319	04.9	139.6	1920	-4.2	3174	-31.3	MB	4075	-51.8	5438
31	8-12	1549	04.6	140.0	1917	-5.0	3182	-31.5	MB	4072	-55.0	5422
32	8-13	0338	05.2	141.1	1916	-4.3	3172	-30.8	ME	4072	-52.8	
33	8-13	1605	05.9	141.8	1918	-5.0	3163	-31.7	MB	4054	-55.1	
34	8-14	0411	06.1	141.1	1911	-4.8	3170	-32.0	MB	4062	-55.3	5431
35	8-14	1451	07.3	143.0	1917	-5.7	3160	-31.5	75	4056	-54.5	
36	8-15	0305	08.3	143.7	1912	-6.9	3186	-32.2	47	4064	-53.7	
37	8-15	1500	09.0	144.4	1915	-6.2	3164	-33.4	MB	4055	-55.8	5443
38	8-16	0322	09.9	145.2	1921	-5.6	3171	-31.4	MB	4067	-54.0	5410
39	8-16	1451	10.5	145.7	1923	-5.6	3167	-32.7	M	4060	-55.3	5432
40	8-17	0306	10.7	146.0	1920	-7.4	3176	-31.0	M	4073	-53.9	5412
41	8-17	1621	11.7	146.9	1925	-6.8	3180	-30.5	46	4080	-53.3	5445
42	8-18	0259	12.9	148.4	1926	-6.2	3167	-32.7	MB	4053	-57.5	5444
43	8-18	1511	13.9	149.3	1919	-7.0	3172	-32.7	98	4063	-56.3	5434
44	8-19	0309	14.3	149.7	1924	-6.9	3178	-31.4	94	4071	-56.9	5414
45	8-19	1711	14.8	151.8	1926	-5.7	3180	-30.8	90	4080	-53.7	
46	8-20	0324	14.6	152.0	1928	-6.1	3162	-34.0	ME	4051	-55.6	5449
47	8-20	1520	15.7	152.6	1920	-6.6	3170	-33.1	MB	4062	-54.5	5420
48	8-21	0418	17.7	153.0	1929	-8.0	3164	-35.5	MB	4034	-58.3	5437
49	8-21	1500	19.5	154.8	1928	-8.4	3175	-34.6	MB	4060	-56.6	5408**
50	8-21	2052	19.9	155.0	1934	-7.7						5450**

* All altitudes in terms of 9.8 geodynamic feet.

** Extrapolated height

SUMMARY OF CONSTANT PRESSURE DATA

SHIP		Horizon		MONTH & YEAR												August 1950	
Asc. No.	Date	Time	Lat.	Long.	SURFACE			1000 Mbs.			850 Mbs.			700 Mbs.			
					Press.	Temp.	R.H.	Height*	Temp	R.H.	Height	Temp	R.H.	Height	Temp	R.H.	Height
51	8-22	0325	20.1	155.3	1014	25.6	83	0042	24.4	83	0503	16.5	82	1037	08.9	30	
52	8-22	1005	20.1	154.7	1017	24.9	80	0051	23.5	83	0510	14.6	78	1043	07.9	30	
53	8-22	1504	20.5	154.8	1016	24.7	77	0047	23.7	77	0506	14.3	72	1038	06.0	29	
54	8-22	2055	20.4	154.9	1017	27.4	71	0051	25.3	71	0512	15.2	78	1045	09.3	50	
55	8-23	0427	20.6	155.3	Flight unsuccessful												
56	8-23	0944	20.3	156.1	1016	25.6	79	0048	24.1	79	0506	13.9	76	1038	06.8	M	

* All altitudes in terms of 9.8 geodynamic feet.

SUMMARY OF CONSTANT PRESSURE DATA

SHIP Horizon MONTH & YEAR August 1950

Asc. No.	Date	Time	Lat.	Long.	500 Mbs.		300 Mbs.		200 Mbs.		100 Mbs.	
					Height*	Temp	Height	Temp	Height	Temp	Height	Temp
51	8-22	0325	20.1	155.3								
52	8-22	1005	20.1	154.7								
53	8-22	1504	20.5	154.8	1923	-9.3	33	3158	-35.3	MB		
54	8-22	2055	20.4	154.9	1934	-7.4	34	3181**				
55	8-23	0427	20.6	155.3								
56	8-23	0944	20.3	156.1	1918	-10.4	M	3151	-34.9	MB	4034	-58.8
											5404	-70.4

* All altitudes in terms of 9.8 geodynamic feet

** Extrapolated height.

6. SUMMARY OF TEMPERATURE INVERSION DATA

The data for the base and top of the "trade wind inversion" abstracted from the radiosonde observations. The units are indicated in the tables except for the following:

Potential Temperature: in degrees absolute

Dew Point Temperature: in degrees centigrade

SUMMARY OF INVERSION DATA

SHIP	Crest	MONTH & YEAR		July 1949		TO:										
		Asc. No.	Date GCT	Time GCT	Lat. ON	Long. ON	Height* Meters	Temp OC	Pot Temp	Dew Point	R.H. %	Height Meters	Temp OC	Pot Temp	Dew Point	R.H. %
		I-1	7-1	1420	32.4	118.4	460	10.5	286	10.2	98	580	21.1	298	-4.0	18
		2	7-2	0205	32.0	120.0	490	10.8	297	10.3	97	580	18.0	295	7.7	51
		3	7-2	1600	31.2	121.3	610	9.4	287	8.8	96	730	19.2	298	8.0	48
		4	7-3	0404	30.6	122.6	1150	19.2	302	MB	MB	1350	20.3	306	MB	MB
		5	7-3	1431	30.2	123.6	600	9.0	286	8.8	99	670	18.6	297	-4.1	21
		6	7-4	0357	29.5	124.9	960	8.3	289	8.3	100	1510	17.2	304	MB	MB
		7	7-4	1433	28.2	123.4	1090	7.5	290	7.5	100	1430	17.0	303	MB	MB
		8	7-5	0230	28.2	123.2	1080	6.7	289	6.7	100	1360	14.6	300	MB	MB
		9	7-5	1508	29.0	121.0	1360	14.6	300	MB	MB	1790	16.5	306	MB	MB
		10	7-6	0231	29.7	119.8	920	6.7	287	6.7	100	1240	17.1	301	-5.4	21
		11	7-6	1432	30.4	118.6	1240	17.1	301	-5.4	21	1380	16.3	304	MB	MB
		12	7-7	0246	31.1	117.4	770	8.9	288	8.6	97	1230	17.4	302	-4.5	23
		13	7-7	1440	30.3	116.4	1590	15.6	303	MB	MB	1800	16.8	307	MB	MB
		14	7-8	0320	29.0	116.8	730	10.2	289	8.8	91	790	17.9	298	3.0	37
		15	7-8	1431	28.4	118.0	790	17.9	298	3.0	37	1050	19.3	302	MB	MB
		16	7-9	0315	27.5	119.5	830	8.4	288	8.0	97	930	15.4	297	-7.4	20
		17	7-9	1455	26.7	120.8	930	15.4	297	-7.4	20	1100	18.4	301	MB	MB
		18	7-9	0320	29.0	116.8	580	8.8	286	6.8	87	670	17.9	296	-6.7	18
		19	7-9	1440	30.3	116.4	670	17.9	296	-6.7	18	900	20.4	301	MB	MB
		20	7-9	1455	26.7	120.8	570	9.6	287	9.0	96	730	19.7	299	-4.5	19
		21	7-9	0320	29.0	116.8	730	19.7	299	-4.5	19	1100	20.7	304	MB	MB
		22	7-9	1431	28.4	118.0	450	13.7	290	13.2	97	580	21.7	299	MB	MB
		23	7-9	0315	27.5	119.5	650	9.7	288	9.4	98	850	19.3	300	-2.3	23
		24	7-9	1455	26.7	120.8	620	10.6	288	10.0	96	750	19.2	298	-3.6	21
		25	7-9	1455	26.7	120.8	750	19.2	298	-3.6	21	1150	21.4	305	MB	MB
		26	7-9	1455	26.7	120.8	870	9.4	290	4.0	69	1080	20.8	304	MB	MB
		27	7-9	1455	26.7	120.8	1080	20.8	304	MB	MB	1650	21.5	310	MB	MB

* All altitudes in terms of 0.98 geodynamic meters.

SUMMARY OF INVERSION DATA.

SHIP	Crest	MONTH & YEAR		July 1949		TOP								
						PASE			TOP					
Asc. No.	Date GCT	Time GCT	Lat. ON	Long. OW	Height* Meters	Temp OC	Pot Temp	Dew Point	R.H. %	Height Meters	Temp OC	Pot Temp	Dew Point	R.H. %
I-18	7-10	0232	26.1	122.1	930	10.8	291	10.8	100	1040	22.0	304	-4.1	17
					1040	22.0	304	-4.1	17	1370	23.7	309	MB	MB
19	7-10	1447	24.5	121.3	680	12.0	290	11.7	98	870	20.5	301	15.7	74
					870	20.5	301	15.7	74	1320	21.1	306	10.2	50
19A	7-10	2015	23.8	120.5	700	12.0	290	11.5	97	1010	21.2	303	16.2	73
20	7-11	0240	24.2	119.9	580	12.5	290	10.4	87	780	22.0	302	-8.6	12
					780	22.0	302	-8.6	12	920	23.0	304	MB	MB
21	7-11	1437	25.0	118.8	830	9.5	289	9.0	97	940	22.0	303	MB	MB
22	7-12	0233	26.2	117.6	500	13.4	290	12.3	93	640	24.8	302	-0.2	19
23	7-12	1432	26.9	116.2	280	15.5	290	14.8	96	430	20.5	296	1.0	27
					430	20.5	296	1.0	27	620	23.0	301	13.6	55
24	7-13	0155	27.6	115.0	30	17.1	289	13.0	77	380	26.2	302	3.0	22
24A	7-13	0815	27.7	114.9	160	20.1	293	17.9	87	300	25.4	300	-2.0	16
					300	25.4	300	-2.0	16	670	25.4	304	-2.0	16
25	7-13	1515	27.7	114.9	40	18.4	291	14.5	78	600	25.0	303	-2.5	16
26	7-14	0247	28.2	115.8	300	16.5	291	12.9	79	470	24.5	301	1.5	22
27	7-14	1456	29.6	116.6	340	16.0	291	15.7	98	670	25.0	303	-0.8	18
					670	25.0	303	-0.8	18	1260	26.2	311	MB	MB
28	7-15	0232	31.2	117.2	330	13.8	289	13.7	99	490	24.5	301	7.3	33

* All altitudes in terms of 0.98 geodynamic meters.

SUMMARY OF INVERSION DATA

MONTH & YEAR August 1949

SHIP Crest

Asc. No.	Date GCT	Time GCT	Lat. ON	Long. OW	Height* Meters	BASE				TOP				R.H. %
						Pot Temp °C	Dew Point	R.H. %	Height Meters	Temp °C	Pot Temp	Dew Point	R.H. %	
11-1	8-4	0200	31.4	117.0	480	13.1	290	13.1	100	660	23.5	302	12.3	49
2	8-4	1440	29.2	116.0	660	23.5	302	12.3	49	1090	27.1	310	0.9	18
3	8-5	0410	28.3	115.2	480	14.7	291	13.4	92	810	27.9	308	3.7	21
4	8-5	1503	27.5	115.3	810	27.9	308	3.7	21	990	28.7	311	5.0	22
5	8-6	0231	26.7	116.4	280	13.0	288	11.4	90	670	20.0	298	5.2	38
6	8-6	1455	25.8	117.6	690	11.6	290	1.1	48	880	25.1	306	-2.4	16
7	8-7	0245	25.2	118.6	780	10.7	290	0.2	48	940	23.3	305	-1.0	20
8	8-7	1448	24.1	120.0	940	23.3	305	-1.0	20	1190	25.0	309	MB	MB
8A	8-7	2045	24.0	120.8	800	11.2	291	10.6	96	1100	23.1	306	0.9	23
9	8-8	0257	24.8	121.4	820	11.3	291	11.3	100	1020	21.8	304	MB	MB
10	8-8	1518	26.1	122.0	810	13.4	293	13.4	100	910	22.0	303	0.1	23
11	8-9	0250	27.3	120.5	910	22.0	303	0.1	23	1230	23.4	307	ME	ME
12	8-9	1502	27.9	119.4	850	12.6	293	10.1	85	940	19.0	300	-6.6	17
13	8-10	0210	28.6	118.3	940	19.0	300	-6.6	17	1430	22.5	309	MB	MB
14	8-10	1503	29.1	117.2	650	11.4	290	10.7	95	930	19.0	300	-7.3	16
15	8-11	0244	29.7	116.2	690	14.9	293	11.9	32	750	18.7	298	-6.0	18
16	8-11	1500	31.2	117.2	750	18.7	298	-6.0	18	1150	20.8	304	-4.3	18
					750	13.0	292	12.4	96	800	19.0	299	-4.4	20
					800	19.0	299	-4.4	20	970	20.8	303	-3.5	19
					1025	11.0	293	11.0	100	1230	19.5	303	7.0	44
					1230	19.5	303	7.0	44	1600	20.1	308	7.3	43
					950	11.6	293	8.4	81	1130	16.8	300	1.3	35
					1010	6.7	288	6.3	97	1200	12.9	297	2.5	49
					1200	12.9	297	2.5	49	1500	14.3	301	-2.9	30
					880	12.4	293	8.7	78	1310	17.4	302	-7.1	17
					950	8.4	289	7.4	93	1050	15.8	298	-2.1	29

* All altitudes in terms of geodynamic meters.

SUMMARY OF INVERSION DATA

MONTH & YEAR August 1949

SHIP Crest

Asc. No.	Date GCT	Time GCT	Lat. ON	Long. OW	Height* Meters	BASE			TOP			R.H. %	Dew Point	Pot Temp	R.H. %
						Temp. OC	Pot Temp	Dew Point	R.H. %	Height Meters	Temp OC				
17	8-12	0239	30.4	118.6	730	9.5	288	3.3	65	860	15.4	296	3.6	45	
18	8-12	1515	29.7	119.9	860	15.4	296	3.6	45	1610	16.0	304	-9.7	16	
19	8-13	0250	29.0	121.1	1000	8.8	290	7.6	92	1310	17.0	302	-4.2	23	
20	8-13	1500	28.2	122.4	1220	8.1	292	7.8	98	1410	14.4	300	2.7	45	
21	8-14	0305	28.4	123.4	1420	14.4	300	2.7	45	1810	16.0	306	-5.1	23	
22	8-14	1445	29.6	124.9	1400	7.9	293	7.6	98	1610	15.4	303	-4.9	24	
23	8-15	0310	30.3	123.4	1610	15.4	303	-4.9	24	1810	17.4	308	MB	MB	
24	8-15	1457	30.9	122.0	1180	7.9	291	3.2	72	1520	17.4	304	-7.8	17	
25	8-16	0410	31.4	120.9	1320	7.7	292	7.7	100	1530	13.6	301	2.5	47	
26	8-16	1500	31.9	119.5	1590	13.6	301	2.5	47	1900	15.8	306	-7.8	19	
27	8-17	0210	32.5	118.4	1220	6.0	290	5.0	93	1310	13.4	298	4.9	56	
28	8-17	0410	31.4	120.9	1340	13.4	298	4.9	56	1510	15.6	303	1.4	38	
29	8-17	0410	31.4	120.9	1350	6.1	291	5.7	97	1650	17.1	305	-6.0	20	
30	8-17	0410	31.4	120.9	930	10.9	291	7.6	80	1110	15.2	298	-8.2	19	
31	8-17	0410	31.4	120.9	1140	15.2	298	-8.2	19	1410	17.0	303	MB	MB	
32	8-17	0410	31.9	119.5	930	8.0	289	7.2	95	1010	14.8	297	1.0	39	
33	8-17	0410	31.9	119.5	1040	14.8	297	1.0	39	1310	16.6	301	-9.2	16	
34	8-17	0410	32.5	118.4	480	14.0	290	12.1	88	580	19.0	296	-0.3	27	
35	8-17	0410	32.5	118.4	580	19.0	296	-0.3	27	1000	21.1	303	MB	MB	

* All altitudes in terms of 0.98 geodynamic meters.

SUMMARY OF INVERSION DATA

SHIP		Crest		MONTH & YEAR September 1949															
Asc. No.	Date GCT	Time GCT	Lat. ON	Long. OW	Height* Meters	BASE						TOP							
						Temp OC	Pot Temp	Dew Point	R.H. %	Height Meters	Temp OC	Pot Temp	Dew Point	R.H. %					
1	9-4	1540	30.2	116.5	560	11.9	289	11.1	95	700	23.5	303	-3.0	17					
2	9-5	0300	28.5	115.7	700	23.5	303	-3.0	17	1070	25.0	308	-2.6	16					
3	9-5	1432	27.1	115.9	430	16.0	292	14.3	90	480	23.4	301	0.0	21					
4	9-6	0320	26.2	117.1	480	23.4	301	0.0	21	580	24.5	303	-0.5	19					
5	9-6	1440	25.4	118.3	470	16.2	293	14.4	89	550	22.5	300	11.9	51					
6	9-7	0232	24.4	119.7	550	22.5	300	11.9	51	750	25.2	305	11.9	43					
7	9-7	1503	24.2	120.8	380	16.2	292	15.4	95	520	25.0	303	-0.1	19					
8	9-8	0240	25.9	122.2	730	13.7	298	13.5	99	790	22.5	303	0.5	23					
9	9-8	1432	26.3	121.5	790	22.5	303	0.5	23	1210	24.9	309	2.4	23					
10	9-9	0231	27.2	120.1	720	15.5	295	14.7	95	870	24.7	306	8.3	35					
11	9-9	1434	27.9	118.9	510	16.3	294	15.1	92	900	23.1	304	5.1	31					
12	9-10	0240	28.9	118.2	360	17.0	293	15.7	92	700	23.5	303	-0.6	20					
13	9-10	1431	29.2	117.0	360	17.9	293	16.6	92	530	21.9	299	10.8	49					
14	9-11	0300	29.8	116.2	530	21.9	299	10.3	49	780	23.4	303	7.6	36					
15	9-11	1500	31.2	117.2	No inversion	No inversion													
16	9-12	0250	30.3	118.7	400	17.7	293	17.0	96	780	19.9	300	17.5	86					
17	9-12	1435	29.5	120.2	450	16.4	293	15.6	95	600	21.5	299	7.0	39					
18	9-13	0232	28.7	121.6	510	16.3	293	14.5	89	560	20.2	298	11.0	55					
					560	20.2	298	11.0	55	700	21.9	301	9.2	44					
					710	12.3	291	10.9	91	930	21.1	302	MB	MB					
					730	11.1	290	9.5	90	970	18.7	300	-7.5	16					
					970	18.7	300	-7.5	16	1500	20.1	307	MB	MB					
					960	9.8	291	5.6	75	1170	16.8	300	-7.5	59					
					850	11.6	291	11.0	96	890	12.0	293	11.1	94					
					1230	11.2	295	3.7	60	1570	15.0	303	-3.2	28					

* All altitudes in terms of 0.98 geodynamic meters.

SUMMARY OF INVERSION DATA

MONTH & YEAR September 1949

SHIP Crest

Asc. No.	Date GCT	Time GCT	Lat. ON	Long. OW	Height* Meters	BASE				TOP				R.H. %
						Temp C	Pot Temp	Dew Point	R.H. %	Height Meters	Temp C	Pot Temp	Dew Point	
111-19	9-13	1438	27.9	123.1	1270	9.2	293	1.7	59	1440	13.8	300	-5.3	26
20	9-14	0305	29.4	124.6	1460	6.7	293	5.1	90	1630	15.3	303	-5.1	24
21	9-14	1448	30.2	123.6	1280	7.4	291	7.1	93	1430	16.8	303	-5.6	21
22	9-15	0231	30.8	122.3	1430	16.8	303	-5.6	21	1580	17.6	305	MB	MB
					680	11.5	290	11.0	97	820	16.8	297	4.6	44
					1040	16.8	299	-6.2	20	1280	18.5	303	MB	MB
					1960	15.0	306	MB	MB	2380	16.7	313	MB	MB
23	9-15	1458	31.4	120.9	460	13.3	289	12.8	97	530	16.6	293	12.1	74
					530	16.6	293	12.1	74	850	19.0	299	-3.8	21
24	9-16	0235	32.1	119.5	540	12.7	290	11.4	92	780	21.8	301	5.4	34
					760	21.8	301	5.4	34	1010	22.4	305	3.1	28
25	9-16	1432	32.7	118.2	520	10.3	287	9.8	97	580	19.7	297	6.1	41
					580	19.7	297	6.1	41	690	21.3	300	-1.2	22
					1050	19.0	301	8.7	51	1250	21.0	305	-4.9	17

* All altitudes in terms of 0.98 geodynamic meters.

SUMMARY OF INVERSION DATA

SHIP Crest

MONTH & YEAR July 1950

Asc. No.	Date GCT	Time GCT	Lat. ON	Long. OW	Height* Meters	BASE				TOP				R.H. %
						Pot Temp	Temp OC	Dew Point	R.H. %	Height Meters	Temp OC	Pot Temp	Dew Point	
1-1	7-7	1440	34.1	119.6	130	11.5	285	10.8	96	500	22.1	299	14.3	61
2	7-8	0315	34.8	122.0	500	22.1	299	14.3	61	740	23.1	302	01.6	24
					290	12.2	287	11.1	87	470	17.4	294	10.1	62
3	7-8	1410	35.6	121.3	600	17.3	295	5.6	46	780	21.3	301	2.7	29
					780	21.3	301	2.7	29	1030	21.3	304	-1.8	21
4	7-9	0141	35.2	122.1	330	11.4	286	10.6	95	470	19.8	297	12.2	61
					680	18.9	297	6.8	45	870	21.0	301	8.3	44
5	7-9	1641	34.1	121.2	1400	20.0	306	7.2	43	1560	21.0	309	7.3	41
					430	10.3	286	10.0	98	640	20.7	299	-2.3	21
6	7-10	0221	33.6	122.3	640	20.7	299	-2.3	21	930	21.2	303	MB	MB
					310	14.7	289	12.5	87	650	16.7	295	15.2	91
7	7-10	1425	32.8	123.9	540	12.1	289	12.1	100	620	14.0	292	13.9	99
					1120	13.1	296	13.1	100	1200	13.8	297	13.8	100
8	7-11	0138	32.2	125.3	670	12.3	290	12.3	100	960	14.4	296	14.4	100
					450	11.8	288	10.9	94	1600	15.0	302	10.0	72
9	7-11	0340	31.9	125.7	560	8.6	285	8.6	100	970	11.2	292	11.2	100
					1340	8.4	293	7.8	96	1640	14.0	302	-5.7	25
10	7-11	1420	30.8	124.7	660	10.8	288	10.8	100	790	13.5	293	13.5	100
					1680	13.0	301	4.0	54	1990	16.5	308	-7.8	18
11	7-12	0210	30.7	123.3	490	11.6	287	10.5	93	570	17.1	294	15.2	88
					980	17.4	298	14.2	81	1190	18.8	302	10.7	59
12	7-12	1500	31.5	122.0	1430	17.8	303	7.0	49	1570	19.7	307	-2.6	22
					High winds - heavy sea									
13	7-13	0300	32.2	120.3	High winds - heavy sea					890	28.0	309	0.8	17
					560	12.9	290	10.8	87					
14	7-13	1908	33.1	118.7	3040	13.3	316	-9.8	19	3270	14.5	320	MB	ME

* All altitudes in terms of 0.98 geodynamic meters.

SUMMARY OF INVERSION DATA

SHIP CrestMONTH & YEAR July 1950

Asc. No.	Date GCT	Time GCT	Lat. ON	Long. OW	Height* Meters	BASE				TOP				R.H. %
						Temp OC	Pot Temp	Dew Point	R.H. %	Height Meters	Temp OC	Pot Temp	Dew Point	
1-15	7-14	0155	33.4	117.9	260	14.7	290	13.5	93	400	14.8	291	13.7	93
					520	15.3	293	13.2	87	1040	26.3	309	5.4	26
16	7-14	1452	33.4	119.7	480	12.2	289	12.2	100	870	28.1	309	8.9	30
					2070	20.5	313	-1.9	22	2230	21.8	317	-2.1	20
17	7-15	0254	32.6	121.2	620	11.2	289	-4.8	32	800	26.9	307	2.8	21
					1980	20.3	312	0.3	26	2130	22.7	316	-2.1	19
18	7-15	1518	32.3	122.6	700	10.5	289	10.5	100	999	26.0	308	MB	MB
					1910	20.0	311	-1.0	19	2060	21.6	315	-2.2	20
19	7-16	0205	33.1	121.6	570	10.7	288	10.4	98	800	26.9	307	0.7	18
20	7-16	1625	33.7	119.7	720	11.8	291	10.9	94	880	21.5	302	10.4	49
					880	21.5	302	10.4	49	1030	23.9	306	-1.1	19
21	7-17	0215	35.3	118.3	750	11.7	291	11.7	100	810	20.5	301	10.4	52
					810	20.5	301	10.4	52	1160	22.5	306	-0.2	22
22	7-17	1547	32.9	117.7	810	12.0	292	10.9	93	880	19.5	300	15.1	76
					1110	21.0	304	13.8	63	1300	22.9	308	2.4	26
23	7-18	0350	32.2	118.7	750	10.5	290	3.4	61	900	19.5	301	3.7	85
24	7-18	1445	32.0	119.2	780	11.2	291	11.2	100	830	20.3	297	16.6	94
					830	20.3	297	16.6	94	1270	20.3	305	8.5	45
25	7-19	0215	31.3	120.6	820	10.5	290	9.3	92	1090	21.2	304	MB	MB
26	7-19	1431	30.5	121.4	1220	7.5	291	5.3	86	1410	17.8	303	MB	MB
27	7-20	0205	30.7	120.3	1020	10.4	292	9.9	97	1180	18.3	301	-3.1	23
					1180	18.3	301	-3.1	23	1420	20.5	306	-6.1	16

* All altitudes in terms of 0.98 geodynamic meters.

SUMMARY OF INVERSION DATA

SKIP Crest MONTH & YEAR August 1950

Asc. No.	Date CCT	Time GCT	Lat. ON	Long. OW	Height* Meters	BASE				TOP				R.H. %
						Temp OC	Pot Temp	Dew Point	R.H. %	Height Meters	Temp OC	Pot Temp	Dew Point	
1	8-8	0223	33.3	118.2	130	17.6	291	M	M	410	25.0	502	M	M
2	8-8	1545	34.4	120.4	2320	11.8	307	-5.1	30	2420	14.0	310	MB	MB
3	8-9	0242	35.7	121.6	2030	13.8	237	8.9	72	620	21.4	299	4.1	32
4	8-9	1545	36.9	122.7	210	12.6	304	4.1	56	2130	13.7	306	0.8	41
5	8-10	0259	37.6	123.6	750	12.9	287	10.6	86	460	17.2	293	10.6	65
6	8-10	1556	36.8	125.3	880	17.8	297	1.8	34	1170	19.0	302	-1.8	24
7	8-11	0215	36.3	126.5	580	8.0	288	-1.8	50	1200	15.2	299	-2.6	29
8	8-11	1515	35.6	128.1	1060	11.7	289	9.8	88	790	18.1	297	6.7	47
9	8-12	0205	34.4	127.9	1200	8.5	290	6.7	88	1230	13.4	297	5.3	58
10	8-12	1525	33.9	126.6	770	10.4	293	7.2	80	1280	11.5	296	7.2	75
11	8-13	0304	34.5	125.2	1130	10.5	289	10.0	97	1130	10.6	293	5.6	71
12	8-13	1502	35.2	123.8	900	10.6	293	5.6	71	1370	12.7	298	-10.9	35
13	8-14	0240	35.7	122.5	390	10.7	291	10.1	96	1210	13.7	297	6.6	62
14	8-15	1554	33.3	122.9	550	9.3	290	5.8	79	1070	13.8	296	5.2	56
15	8-16	0300	32.6	124.2	400	12.2	287	11.9	98	600	12.0	289	9.4	84
16	8-16	1555	31.8	125.9	600	12.0	289	9.4	84	700	18.2	297	9.1	55
17	8-17	0207	30.6	124.1	No flight - High winds	14.5	290	14.3	99	630	21.0	299	14.0	64
18	8-17	1530	31.1	122.7	390	12.8	290	9.1	78	780	23.2	303	2.8	26
19	8-18	0230	31.8	121.3	1800	17.2	307	-5.9	20	2040	18.2	310	MB	MB
20	8-18	0402	31.8	121.2	430	13.6	289	13.3	98	720	20.4	299	9.7	50
					1044	21.1	303	6.3	38	1070	21.7	304	0.4	24
					370	14.7	290	14.2	97	640	19.3	297	10.4	56
					430	10.8	287	8.4	85	650	21.2	299	4.8	34
					380	13.3	288	12.8	97	560	23.9	301	4.4	28
					No flight; - Power failure									
					340	13.8	289	12.6	92	410	24.5	300	-2.1	17
					410	24.5	300	-2.1	17	670	27.0	305	-1.7	15

* All altitudes in terms of 0.98 geodynamic meters.

SUMMARY OF INVERSION DATA

SHIP		Crest		MONTH & YEAR August 1950													
Asc. No.	Date CCT	Time GCT	Lat. °N	Long. °W	Height* Meters	BASE						TOP					
						Temp °C	Pot Temp	Dew Point	R.H. %	Height Meters	Temp °C	Pot Temp	Dew Temp	R.H. %			
II-21	8-18	1524	32.5	119.8	350	12.0	287	12.0	100	430	14.0	290	8.2	68			
					500	12.7	289	3.4	53	610	27.9	306	9.7	32			
	8-18	2220	32.9	116.9	300	13.6	288	11.8	89	540	31.0	308	8.8	25			
					540	31.0	308	8.8	25	970	33.1	315	6.6	19			

* All altitudes in terms of 0.98 geodynamic meters.

SUMMARY OF INVERSION DATA

SHIP Crest

MONTH & YEAR September 1950

Asc. No.	Date GCT	Time GCT	Lat. ON	Long. OW	Height* Meters	BASE				TOP				R.H. %
						Temp OC	Pot Temp	Dew Point	R.E. %	Height Meters	Temp OC	Pot Temp	Dew Point	
1	9-7	0315	35.9	121.8	No flight; Release point missing	7.5	290	7.5	100	1230	19.0	303	1.1	30
2	9-7	1516	35.5	123.1	1060	7.5	288	6.4	91	1490	17.6	305	MB	MB**
3	9-8	0242	34.9	124.4	840	7.5	290	7.5	100	1430	15.6	302	-2.2	29
4	9-8	1514	34.3	125.9	1110	6.4	290	5.8	96	1390	13.9	299	2.8	47
5	9-9	0243	33.5	127.3	1260	13.9	299	2.8	47	1660	14.3	302	-7.6	21
6	9-9	1525	32.6	129.2	1480	3.7	289	3.7	100	1710	13.2	302	MB	MB
7	9-10	0231	32.0	130.3	2830	4.3	304	-12.1	29	3000	6.1	308	-11.5	27
8	9-10	1502	31.3	131.9	1340	7.6	292	7.5	99	1450	13.0	298	6.6	65
9	9-11	0212	30.5	133.5	1490	9.4	295	7.5	88	1740	11.7	300	4.4	61
10	9-11	1459	29.6	135.4	1930	5.6	296	5.5	99	2040	7.5	299	6.6	94
11	9-12	0335	28.7	137.1	No inversion									
12	9-12	1510	27.7	136.5	1940	6.4	297	0.2	64	2070	10.5	303	-4.7	34
13	9-13	0229	26.3	135.3	1690	8.9	297	1.4	59	1770	12.5	301	0.6	44
14	9-13	1500	25.1	134.5	2430	10.8	307	M	M	2580	12.6	310	M	M
15	9-14	0300	25.7	133.2	No flight; Instrument failure									
16	9-14	1514	26.6	131.6	1620	5.5	293	4.3	92	2230	13.5	307	MB	MB
17	9-15	0244	27.6	129.6	1560	8.8	295	-0.2	53	2190	13.5	307	M	M
18	9-15	1514	28.5	127.9	1340	10.9	295	8.4	85	1550	12.0	299	6.3	68
19	9-16	0245	28.9	127.0	2270	8.4	302	-3.4	43	2490	9.9	306	-2.4	42
20	9-16	1525	29.8	125.1	2320	7.9	302	3.5	74	2560	8.5	306	M	M
21	9-17	0220	30.6	123.7	No inversion									
22	9-17	1459	31.3	122.2	2090	4.8	297	3.7	92	2550	8.6	306	-11.3	23
23	9-18	0312	32.0	120.9	No inversion									
					3900	-2.5	309	-17.2	31	4230	-1.6	314	MB	MB

* All altitudes in terms of 0.98 geodynamic meters.

** Data missing inbetween.

SUMMARY OF INVERSION DATA

SHIP Horizon

MONTH & YEAR July & August 1950

Asc. No.	Date GCT	Time GCT	Lat. °N	Long. °W	Height* Meters	BASE				TOP				
						Pot Temp °C	Dew Point	R.H. %	Height Meters	Temp °C	Pot Temp	Dew Point	R.H. %	
1	7-28	1546	30.2	119.3	620	11.6	289	10.9	96	760	21.3	303	15.6	36
2	7-29	0305	28.8	120.4	670	10.9	289	09.3	90	860	21.1	301	-5.1	17
3	7-29	1525	27.3	121.6	670	14.2	292	12.2	88	760	18.3	297	7.2	48
4	7-30	0315	27.5	121.5	660	11.6	290	11.5	99	710	14.4	293	10.8	79
5	7-30	1522	26.4	122.6	730	15.6	294	11.8	78	1070	17.7	300	-2.5	25
6	7-31	0233	24.9	123.8	1320	7.0	291	7.0	100	1520	16.1	303	-8.9	17
7	7-31	1507	23.9	124.7	1050	12.2	294	10.8	91	1110	14.1	297	12.1	88
8	8-1	0258	22.5	125.8	1110	14.1	297	12.1	88	1170	17.0	302	-2.5	26
9	8-1	1542	21.1	127.0	1520	10.5	297	10.5	100	1640	17.4	306	4.1	41
10	8-2	0331	20.8	127.3	1220	12.8	296	11.3	91	1330	14.6	300	11.6	82
11	8-2	1541	19.5	128.3	1330	14.6	300	11.6	82	1710	16.8	306	0.0	32
12	8-3	0318	19.5	128.3	1270	13.8	298	11.7	88	1520	17.1	304	8.0	55
13	8-3	1502	18.9	129.0	1390	10.6	296	6.2	74	1540	11.6	298	3.2	56
14	8-4	0320	17.5	130.2	1630	13.9	301	3.1	48	1820	16.7	306	3.0	40
15	8-4	1536	16.1	131.6	1360	11.1	296	9.0	87	1460	16.8	303	7.5	54
16	8-5	0309	14.7	132.8	1220	11.7	296	10.2	90	1300	18.8	303	0.9	30
17	8-5	1513	14.4	133.1	1300	18.8	303	0.9	30	1390	20.4	306	-2.7	21
18	8-6	0324	14.4	133.1	1460	10.1	296	9.8	98	1630	19.5	307	3.7	35
19	8-6	1634	13.9	133.4	1370	16.0	301	15.0	94	1440	16.8	303	15.7	93
20	8-7	0326	13.5	133.7	2510	10.4	307	4.4	66	2670	15.3	312	-1.0	37
21	8-7	1536	16.1	131.6	No inversion	No inversion								
22	8-7	0309	14.7	132.8	No inversion	No inversion								
23	8-7	1513	14.4	133.1	1490	16.5	303	14.1	86	1610	16.9	305	14.1	83
24	8-7	0324	14.4	133.1	4460	0.2	317	-6.7	60	4590	1.1	320	-13.3	33
25	8-7	1634	13.9	133.4	1420	15.3	301	12.8	84	1560	18.6	305	5.5	42
26	8-7	0326	13.5	133.7	1560	18.6	305	5.5	42	1640	19.3	307	4.0	36
27	8-7	1634	13.9	133.4	1630	14.9	303	8.7	66	1690	17.6	307	-4.9	21

* All altitudes in terms of C.98 geodynamic meters.

SUMMARY OF INVERSION DATA

SHIP Horizon MONTH & YEAR August 1950

SHIP Horizon

Asc. No.	Date GCT	Time GCT	Lat. ON	Long. OW	Height* Meters	BASE				TOP								
						Temp OC	Pot Temp	Dew Point	R.H. %	Height Meters	Temp OC	Pot Temp	Dew Point	R.H. %				
21	8-7	1656	12.7	134.5	No inversion													
22	8-8	0330	12.7	134.3	No inversion													
23	8-8	1716	10.9	135.5	2180	12.8	306	10.3	88	2300	12.8	308	10.9	88				
24	8-9	0348	10.4	135.9	630	19.4	300	18.6	90	1170	19.6	303	18.1	91				
25	8-9	1510	09.7	136.4	No inversion													
26	8-10	0331	09.5	136.4	1280	17.8	302	15.9	89	1480	18.0	304	15.6	86				
27	8-10	1531	08.5	136.8	1080	17.8	300	16.4	91	1200	17.8	302	15.6	87				
28	8-11	0327	07.3	137.2	1870	14.4	305	12.9	91	2300	15.4	310	12.8	85				
29	8-11	1506	06.1	138.1	870	18.0	299	14.3	79	1020	18.4	301	13.3	77				
30	8-12	0319	04.9	139.6	2810	9.1	309	6.9	86	3090	9.3	313	6.1	80				
31	8-12	1549	04.6	140.0	1160	16.1	299	14.8	87	1340	18.0	303	6.8	48				
32	8-13	0338	05.2	141.1	1370	15.0	301	8.0	63	1430	17.0	303	6.5	50				
33	8-13	1605	05.9	141.8	3200	7.7	312	4.0	77	3260	10.1	315	4.0	66				
34	8-14	0411	06.1	141.1	1670	14.4	303	7.5	63	1940	15.4	307	-3.5	27				
35	8-14	1451	07.3	143.0	2680	11.2	310	0.9	49	2870	11.7	313	-9.8	23				
36	8-15	0306	08.3	143.7	1490	14.8	301	10.6	76	2030	14.8	307	2.7	44				
37	8-15	1500	09.0	144.4	1850	12.2	302	10.1	87	1960	15.3	307	2.1	41				
38	8-16	0322	09.9	145.2	No inversion													
39	8-16	1451	10.5	145.7	1380	15.6	301	14.5	93	1530	16.0	303	15.0	94				
40	8-17	0305	10.7	146.0	No inversion													
41	8-17	1621	11.7	146.9	820	19.8	300	17.1	87	1030	19.8	302	16.5	84				
42	8-18	0259	12.9	148.4	No inversion													
43	8-18	1511	13.9	149.3	2330	11.8	307	10.6	93	2540	12.0	309	09.0	82				
44	8-19	0309	14.3	149.7	No inversion													
45	8-19	1711	14.8	151.8	1860	14.7	305	09.2	70	1920	15.5	307	01.0	37				
					1560	16.0	303	14.3	90	1740	16.0	305	13.3	84				

* All altitudes in terms of 0.9C geodynamic meters.

SUMMARY OF INVERSION DATA

SHIP		Horizon		MONTH & YEAR		August 1950								
Asc. No.	Date	Time GCT	Lat. ON	Long. OW	BASE				TOP					
					Height* Meters	Temp. OC	Pot Temp	Dew Point	R.H. %	Height Meters	Temp OC	Pot Temp	Dew Point	R.H. %
46	8-20	0324	14.6	152.0	1370	17.9	303	13.6	76	1550	17.9	305	12.3	70
47	8-20	1520	15.7	152.6	1240	15.9	300	14.5	91	1630	16.2	304	12.4	78
48	8-21	0418	17.7	153.6	1230	18.4	302	13.3	72	1620	18.6	307	-00.6	27
49	8-21	1500	19.5	154.8	1440	13.8	299	12.0	89	1630	16.5	304	08.1	58
50	8-21	2052	19.9	155.0	1520	15.2	302	11.0	76	1800	16.6	306	05.3	47
51	8-22	0325	20.1	155.3	1170	16.5	300	14.2	86	1620	16.5	305	13.3	81
52	8-22	1005	20.1	154.7	680	17.8	296	16.4	91	740	19.8	299	15.9	78
53	8-22	1504	20.5	154.8	1960	13.0	304	00.5	42	2030	15.6	305	-04.9	27
54	8-22	2055	20.4	154.9	2230	12.0	306	05.6	64	2360	12.7	308	-01.5	37
55	8-23	0300			No flight; Balloon over-head-signal too weak									
56	8-23	0944	20.3	156.1	1730	12.1	301	09.0	81	1880	13.5	304	06.7	63

* All altitudes in terms of 0.98 geodynamic meters.

7. WINDS ALOFT OBSERVATIONS

The fifteen upper winds observations made on the cruise of the "Horizon" are presented with the following explanatory notes.

Method of Observation: single theodolite pibal or Rabal
(see Chapter 2, Section 7 for discussion)

Clouds: amount in tenths, type according to International Classification (see table on pages 23 to 25)

Altitude: in thousands of feet

Direction: in degrees clockwise from north, rounded to nearest ten

Speed: in knots

WINDS ALOFT OBSERVATIONS-HORIZON, 1950

Ascent No. 1		Ascent No. 2		Ascent No. 3		Ascent No. 4		Ascent No. 5			
31 July 1950		31 July 1950		1 August 1950		2 August 1950		4 August 1950			
1912 GCT		2321 GCT		2117 GCT		1541 GCT		2154 GCT			
Lat. 23.72N		Lat. 23.02N		Lat. 23.02N		Lat. 19.50N		Lat. 15.30N			
Long. 125.30W		Long. 125.40W		Long. 127.30W		Long. 128.30W		Long. 132.40W			
Single Theod.		Single Theod.		Single Theod.		Rabal		Single Theod.			
Clouds:		Clouds:		Clouds		Clouds:		Clouds:			
8 M3		8 M3		1 L8		3 L8		1 H9			
1 L5		1 L5						6 M6			
								3 L2			
Alt.*	Dir.	Speed*	Alt.*	Dir.	Speed*	Alt.*	Dir.	Speed*	Alt.*	Dir.	Speed*
0	260	07	0	050	05	0	080	09	0	140	18
1	340	02	1	350	04	1	090	12	1	140	19
2	340	04	2	310	04	2	100	13	2	150	22
3	320	06	3	290	06	3	120	13	3	160	24
4	290	08	4	290	09	4	120	14	4	150	25
5	250	13	5	290	14	5	110	12	5	150	31
6	250	14	6	270	15	6	060	12	6	150	28
7	250	12	7	260	13	7	030	10	7	150	21
8	270	13	8	290	15	8	170	02			
9	240	15	9	250	13	9	200	02			
10	210	11	10	200	20	10	190	07			
			12	200	27	12	200	14			
			14	220	18	14	150	10			
						16	170	09			
						18	170	03			
						20	230	36			
						25	250	35			

*Altitude in thousands of feet; Speed in Knots

WINDS ALOFT OBSERVATIONS - HORIZON, 1950

Ascent No.	Date	Time	Lat.	Long.	Station
6	5 August 1950	1513 GCT	14.40N	133.1W	Rabal
7	8 August 1950	1716 GCT	10.90N	135.50W	Rabal
8	9 August 1950	1510 GCT	09.70W	136.40W	Rabal
9	12 August 1950	2155 GCT	04.80N	140.70W	Single Theod.
10	13 August 1950	1605 GCT	05.90N	141.80W	Rabal

Alt.*	Dir.	Speed*	Alt.*	Dir.	Speed*	Alt.*	Dir.	Speed*	Alt.*	Dir.	Speed*
0	calm		0	340	07	0	200	10	0	140	18
1	M	M	1	290	06	1	180	08	1	140	25
2	M	M	2	250	08	2	190	10	2	140	26
3	M	M	3	250	08	3	200	08	3	130	24
4	M	M	4	260	06	4	180	06	4	130	27
5	130	04	5	200	03	5	200	03	5	120	32
6	100	10	6	M	M	6	M	M	6	120	20
7	100	11	7	M	M	7	M	M			
8	110	08	8	M	M	8	M	M			
9	090	11	9	150	03	9	150	03			
10	090	14	10	120	02	10	120	02			
12	080	12	12	200	02	12	200	02			
14	090	14									
16	100	11									
18	100	13									
20	080	11									
25	080	13									
30	070	16									
35	090	16									

*Altitude in thousands of feet; speed in knots.

WINDS ALOFT OBSERVATIONS - HORIZON, 1950

Ascent No. 11		Ascent No. 12		Ascent No. 13		Ascent No. 14		Ascent No. 15	
15 August 1950		16 August 1950		21 August 1950		22 August 1950		22 August 1950	
2235 GCT		0312 GCT		2052 GCT		1005 GCT		2055 GCT	
Lat. 9.9°N		Lat. 10.0°N		Lat. 19.9°N		Lat. 20.1°N		Lat. 20.4°N	
Long. 145.2°W		Long. 145.2°W		Long. 155.0°W		Long. 154.7°W		Long. 154.9°W	
Single Theod.		Rabal		Rabal		Rabal		Rabal	
Clouds:		Clouds:		Clouds:		Clouds:		Clouds:	
1-H3		1-H3		1-H1				1 H6	
1-M6		1-M6		1-L1		1-L1		3 L2	
3 L1		6 L3		1-L1		1-L1		3 L2	
Alt.*	Dir	Speed*	Dir.	Speed*	Dir.	Speed*	Dir.	Speed*	Dir.
0	200	09	130	07	140	10	130	0	130
1	250	09	240	07	M	M	160	1	100
2	240	10	230	09	M	M	170	2	100
3	230	11	200	12	M	M		3	100
4	210	13	150	16	160	10		4	090
5	200	13	170	10	160	09		5	070
6	190	10			170	04		6	070
7	230	06			160	02		7	080
8	160	03			060	03		8	100
9	120	08			070	02		9	100
10	120	09						10	M
								12	050
								14	040
								16	130
								18	320
								20	270

*Altitude in thousands of feet; Speed in Knots.

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