

INSTRUCTIONS FOR WBAN-10

- 1. General.** Prepare with a typewriter WBAN-10D as follows:

 - (1) At land stations the form will be prepared annually to describe the status of the station on the 31st day of December. A revised form will be prepared whenever necessary to describe the status of the station on the last day of the month in which there is a change in the data contained in the current form. At first-order stations, the form will be prepared at the station. The form will be prepared for CAA stations by the regional or overseas supervisory office. For other second-order stations, and Coast Guard stations whose reports are transmitted as separate reports on Services A or C, the form will be prepared by the supervising first-order station.
 - (2) On ocean-station vessels, the form will be prepared and distributed as follows:
 - (a) The first and second carbon copies to the regional or overseas supervisory office (the first carbon to be forwarded on to the Central Office).
 - (b) One copy for each set of records (610-7, 610-10, 612-32, 612-33, WBAN-10, or WBAN-11) which is not accompanied by the original copy.
 - (c) One copy to be retained at the station preparing the form for reference when preparing new WBAN-10D forms, etc.
- 2. Entries.** Omit entries not applicable to the station. Complete all other entries in the manner specified by the captions on the form and the following:

 - 2.1 Identification of Station.**

 - (1) Name of Station. At land stations, enter the name of station, and at airport stations also enter the name of the airport. On shipboard enter the name of the ship, and the name of the assigned location pertaining to the patrol.
 - (2) Period of Record. Enter the month and year of record.
 - (3) Latitude and Longitude. Enter the location of the station in degrees and minutes to the nearest minute, which, on shipboard, is the assigned location pertaining to the patrol.
 - (4) Local Standard Time Meridian. At land stations, enter the meridian of local standard time (LST) to degrees; e. g., 75° at stations in the Eastern Standard Time zone. Omit this entry on ocean-station vessels.
 - (5) Greenwich Civil Time (GCT). At land stations, enter the number of hours by which local standard time differs from GCT. Delete "add" or "subtract" as appropriate to convert LST to GCT. Omit these data at shipboard stations.
 - 2.2 Times (LST) of Observations.** Enter the usual time of taking the observations listed. At stations where an additional datum observed at a routine time is entered on Form 1001B, WBAN-10A or B, or WBAN-11A or B, and the time of observation is not specified on the form, identify the datum and enter the usual time of observation in the additional space provided.
 - 2.3 Instrumental Equipment and Exposures.**
 - 2.4 Barometer Number.** Enter the serial number of the barometer designated at the station barometer.
 - 2.5 Elevation Data.** At land stations, enter these data as determined from the appropriate entries on Form 450-1 (see Appendix I to Circular N Addendum); on shipboard the following instructions apply:
 - (a) Ground Elevation (H_g). On shipboard enter zero.
 - (b) Elevation of Barometer (H_b). On shipboard enter 8.
 - (c) Station Elevation (H_s , formerly H_B). On shipboard enter the same value as the elevation of barometer (H_b).
 - (d) Climatological Station Elevation (H_{pe} , formerly H_{ce}). On shipboard enter a dash.
 - (e) Field Elevation (H_f , formerly H_r). On shipboard enter zero.
 - (f) Height of the Eight-Foot Plane (H_8). On shipboard enter 8.
 - 2.6 Sum of Corrections.** Transcribe the sum of corrections from Form 455-10 (formerly 1059) for the station barometer (mercurial). On shipboard, enter the applied correction in use for determining station pressure from the ship's barometer.
 - 2.7 Entries in Columns.** When a station is equipped with two or more instruments of the same kind, enter the following data for the instrument most frequently used in obtaining data for record purposes. Use the additional lines for data relating to the identification, location, and exposure, as appropriate, of other instruments, such as telethermometers, wind systems, etc.

 - (1) Instrument. Enter a check mark (✓) preceding the names of instruments installed at the station.
 - (2) Type. Using the terminology of the stock catalog or manufacturer's instruction manual, describe the instrument sufficiently to distinguish it from other instruments used for the same purpose.
 - (3) Height Above Ground. At land stations, enter, in feet, the height of the instrument above the ground. Measure these heights as the distance from the instrument to the ground directly below the instrument, except that when the instrument is located over a building, measure the height as the vertical distance from the instrument to the average level of the ground surrounding the building. On shipboard, enter the average height of the instrument above sea level (the height of the instrument above the loadline of the ship).
 - (4) Location. Enter the location of the instrument with respect to its environment; e. g., on ground, on roof, on mainmast, etc.
 - (5) Nearest Obstruction. Describe briefly the type or nature of the nearest obstruction, if any, that has an adverse effect upon the exposure of the instrument; e. g., buildings, trees, heat exchanger, other instruments on masts or yardarms, etc. (See instrument exposure instructions for obstructions criteria.)
 - (6) Distance and Direction. Enter the relative distance and direction from the instrument to the nearest obstruction as identified in (5); e. g., "500' N" to indicate a building 500 feet to the north of the instrument.
 - (7) Height of Obstruction Above Instrument. Enter the approximate height of the top of the obstruction above the instrument in feet. When the bottom of the obstruction is closer to the instrument than to the ground, also indicate the approximate height of the instrument above the bottom of the obstruction in feet.
 - (8) Date Installed Present Exposure. Enter the date on which the instrument was installed with its present location and exposure.
 - 2.8 Ceilometer and Ceiling Light.** Enter ceilometer and ceiling light baseline lengths to the nearest foot, in their respective spaces.
 - 2.9 Radar, River Gage, and Transmissometer.** Enter complete information in the spaces provided.
 - 2.7 Remarks.**

 - (1) At land stations, enter the complete address of the station on the form for December, and for the first month of record at a new station or following the relocation of a station.
 - (2) In addition to the "nearest obstruction" data in Part 2.4 (5-7) identify in "Remarks" other obstructions having an adverse effect upon the exposure of an instrument; identify the instrument; indicate the height of the obstruction above the instrument, and the distance and direction of the obstruction from the instrument.
 - (3) Enter any pertinent information not otherwise provided for on WBAN-10D, such as explanations of changes pertaining to instrument exposure, station exposure, observational programs at the station, etc.
 - 2.8 Description of Station Exposure.** At land stations describe the surrounding terrain and its relation to the site of the station. Indicate whether the surrounding country is generally level, rolling, hilly, or mountainous. Give the elevation (MSL) and location of hills or mountains; the location of any bodies of water; and describe any pronounced topographical influence on the weather such as foehn effect, air-drainage effects, up-slope winds, etc. Indicate the location, size, and height of nearby buildings, and the locations of surfaced runways, if any. Indicate nature of ground surface over which thermometers and rain gages are exposed and slope of terrain when these instruments are located in a shelter or support on the ground. If more space is needed, use additional sheets of white paper.
 - 2.9 Prepared by.** The name and title of the person responsible for preparing the form will be typed in the space provided and the original signed by him.

INSTRUCTIONS FOR PREPARATION OF WB FORM 500-1

General

Use elite typewriter if available. Prepare as completely as possible. Abbreviations may be used where meanings are obvious. Five (5) copies will be prepared: Original and one (1) copy for the Central Office; one (1) for the WRPC; one (1) for the appropriate Regional Office; and one (1) for station preparing the forms. The first form prepared for a station will be checked "ORIG-INAL." If practicable include with the original rendition a map of the area on which the present and all previous locations of the station are indicated. Subsequent renditions to be submitted on December 1 of each year will be indicated as supplements and need only include data for changes since last report, such as: changes in type of station, consolidation of city and airport offices, relocation of one or more instruments, etc. If no changes have occurred during the year, the heading should be filled out and "no changes" written on the first line under (a) and (b). Forward all copies except the one for the station to the Regional Office for review and distribution.

Items which do not apply should be left blank. For example, at a station not equipped with a weighing rain gage, column (q) should be left blank. If data are not available a dash should be entered; for instance, if the station has a weighing rain gage but the elevation above the ground is not known, enter a dash in column (q). Indicate doubtful information by a query or footnote.

Entries on form 500-1:

Entries in the heading are self-explanatory. These entries will be completely filled in each time a form is submitted. Number supplements consecutively beginning with one (1).

- (a) "Number of Location." Enter "1st" for the first location, "2nd" for the next, etc. Where a station has been preceded by a cooperative station, the cooperative station history should precede the history of the other station. Use additional sheets if necessary.
- (b) "Location." Enter exact location using street and number where appropriate as, "224 E 4th Street." For airports indicate name of airport and direction and airline distance from the Post Office. If the building has a name, enter that name as well as the street address.
- (c) "Type of Station." Use symbols for stations thus: WBO or WBAS for first order; CAA for Civil Aeronautics Administration; SAWFSS for Supplementary aeronautical weather reporting; S, A, or SA for second order paid synoptic, aviation, or combined synoptic and aviation; CG for Coast Guard, AF for Air Force, Coop for cooperative, etc.
- (d) and (e) "At this Location From - To." Enter dates using month, day, and year if possible thus: "1-17-17," "5-1-49."
- (f) "Airline Distance and Direction from Previous Location." Show as "2 1/4 miles SSE" or "1000 Ft. NNW."
- (g) and (h) "Latitude" and "Longitude." If coordinates to tenths of a minute can readily be determined, make entries thus: "40°20'4", "75°38'8". If not enter them to the nearest minute as "40°20", "75°38".
- (i) "Ground Elevation (H)." Enter in whole feet.
- (j) and (k) "Assigned Station Elevation (H_b)" and "Actual Elevation (H_a)."
H_b and H_a will be entered to two decimal places if available.
- (l) to (n) "Elevation of Instruments." Enter in whole feet.
- (o) and (t) These columns will be used for other instruments. If used, the instruments should be entered in the headings of the columns under which data on them are reported.
- (u) "Remarks." Enter pertinent data such as reasons for moves, dates of beginning and/or ending of observational programs such as aviation observations, pibals, etc., effects of buildings, terrain, etc., or any other remarks of interest concerning the station programs, station location or location of instruments.

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
SURFACE WEATHER OBSERVATIONS

Meteorological record at ALMUNDESEN-SCOTT SOUTH POLE STATION, ANTARCTICA (Airport stations include name of field)

Number of station barometer **219**; Latitude **90°S**; Longitude **0°**. Local standard time **180**-th mer. Add **12** hours to convert to GCT.

Latitude **90°S**; Longitude **0°**. Thickness of ice on water _____.

Soil temperature _____; Soil moisture _____; Frozen ground layer _____; Times (LST) of Taking Observations of River stage _____; Climatological _____; Evaporation _____; (Other—specify) _____

Number of station barometer **219**; Ground elevation (H) ***9186** feet MSL; Barometer elevation (H_b) ***9186** feet MSL; (Date) **1/17/57**

Sum of corrections **+0.028 in.**; Station elevation (H_s) **9186** feet MSL; Field elevation (H_f) **9186** feet MSL; (Date) **1/17/57**

Climatological station elevation (H_{nc}) **9186** feet MSL; Height of 8-foot plane (H_p) **9186** feet MSL; (Date) **1/17/57**

Instrumental Equipment and Exposures

Instrument	Type	Height above ground or sea (feet)	Location	Nearest obstruction	Distance and direction to obstruction from instrument	Height of obstr. above instrument	Date installed present exposure
(<input checked="" type="checkbox"/> Direct reading wind equipment	Aerovane #227	33	main mast camp	250' S	below	3/6/57	
(<input checked="" type="checkbox"/> Other wind equipment	F-006, F102A	32	" "	" "	" "	3/6/57	
(<input checked="" type="checkbox"/> Wind recorder (not triple register)	Aerovane mod 141-4						
(<input checked="" type="checkbox"/> Maximum and minimum	Max/min	5	Thermoscreen	1	" "	71	3/6/57
(<input checked="" type="checkbox"/> Psychrometer	Dew cell	5	Tovel	" "	" "	71	3/6/57
(<input checked="" type="checkbox"/> Infrared hygrometer							
(<input checked="" type="checkbox"/> Telepsychrometer	Telepsychograph						
(<input checked="" type="checkbox"/> Thermograph	5 day	4½	" "	" "	" "	10/20/57	
(<input checked="" type="checkbox"/> Remote reading thermometer	S (5)	141-100cm Ga	homemade	**	**	4/18/2	57
(<input checked="" type="checkbox"/> 8" Riepeep gage	8-inch standard range	30	rain mast	"	"	7/1/57	
(<input checked="" type="checkbox"/> Weighing raingage	not shielded	3½	snow camp	300' S	"	7/6/57	
(<input checked="" type="checkbox"/> Tipping bucket raingage							
(<input checked="" type="checkbox"/> Barograph	4 day						
(<input checked="" type="checkbox"/> Precision aneroid	Bendix-Friar #9186m					1/9/57	
(<input checked="" type="checkbox"/> Altimeter setting indicator	Kellman #9186m	1				1/9/57	
(<input checked="" type="checkbox"/> Show-albedo Pyrheliometer	Eppley	4'	over snow main mast	75' S	25'	10/22/57	
(<input checked="" type="checkbox"/> Triple register	Esterline Angus	5'	over snow main mast	75' E	25'	1/28/57	
(<input checked="" type="checkbox"/> Solar radiation	Eppley pyrheli	5'	over snow main mast	75' E	25'	9/10/57	
(<input checked="" type="checkbox"/> Pilot balloon							
(<input checked="" type="checkbox"/> Rawinsonde	GMDA-MAPTA	4'	antennae by bldg	"	"	6/22/57	
(<input checked="" type="checkbox"/> Net & Hemis. Radiometers B & W						3/27/57	
(<input checked="" type="checkbox"/> Ceilometer	4'	over snow main mast	75' E	25'	5/7/57		
(<input checked="" type="checkbox"/> Radar	Radar Type	baseline	wavelength	antenna size	Owned by	7/100'	date installed
(<input checked="" type="checkbox"/> River gage	River						
(<input checked="" type="checkbox"/> Transmissometer	Baseline (feet)						

Remarks. **Conversion to feet of calculated altitude of 2800 meters.** ** Located. #1 at **-10**

meters; #2 on snow surface; #3 in thermoscreen; #5 at **+6** meters; #6 at **+10** meters; all but #3 located near or on the wind mast; #2, #5 and #6 provided with temporary shuddering

Description of station exposure. Located on the south polar plateau at the geographical south pole and a calculated altitude of 2800 meters. The station is approximately 300 miles from the head of the Beardmore Glacier and the peaks of the Queen Maud Mts although isolated nunataks from this range are believed to be within 150 miles of the Pole along the **120°** longitude. In other directions the plateau stretches without any known prominent feature.

WBAN 10 D (cont) Description of Station Exposure:

being evident for hundreds of miles and in certain directions (40°E thru 145°E longitude) for a thousand miles. Variations in elevation are known to exist over the plateau but the slope is extremely gentle and barely apparent. In the direction towards the sector from 40°E thru 145°E , elevations possibly as high as 4300 meters exist. From the weather experienced at this station to date, it appears as though the highest elevations will be found from 90°E thru 110°E and between 80°S and 85°S latitude. In a direction towards the Horlick mountains (towards 90°W longitude) it appears as though the general elevation must decrease rather rapidly while towards the 0° longitude the elevations must also decrease but much more slowly. A very pronounced prevailing surface wind exists at this station with surface wind directions in the sector from 0° longitude clockwise through 110°E longitude accounting for 95% of the hourly wind directions recorded from January through October 1957. Winds from the SSW (from about 100°W through 130°W) were never recorded during this period of record (comprising 6242 hours), and surface wind direction in the larger sector from 70°W longitude through 170°W longitude occurred less than $\frac{1}{2}$ of one per cent of the hours. This provides an ideal climate for the exposure of instruments to keep them free of camp smoke pollution. As originally exposed, the thermal screen is affected by winds from about 35° through 8° or, from the period of record, about 3% of the hours. The radiation instruments are affected by winds from SSW through SSW or less than 1% of the hours. The location of the main wind mast results in its being affected by winds from the same sector although to a slightly lesser amount than the radiation instruments. Sastrugi are oriented about from 040°E - 050°E with occasional drift in summer (January) from the NW through N (from 050°W through 010°E) and occasional winter drift from the east (from 090°E).

B. Flowers (MIC)

BEST AVAILABLE COPY											
<p>These figures as of Jan. 26, 1961. Since the snow surface is constantly changing these figures will be entered on the monthly weather month the correct figures will be entered on the end of each summary.</p>											
<p>(m) (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l)</p>											
<p>WIND INSTRUMENTS</p>											
<p>EXTREME PSY- THERMOM- CHROM- TELEPSY- ETHER THERMOM- METERS RAIN GAUGES</p>											
<p>BUCKET WEIGHT 8 INCH</p>											
<p>(Reason for move, changes in observation programs, effects of buildings or terrain, etc.)</p>											
<p>ELEVATION ABOVE GROUND</p>											
<p>REMARKS</p>											
<p>30.5. 5.5. 5.5. 5.5. 5.5. 5.5. 5.5. 5.5. 5.5. 5.5. 5.5. 5.5.</p>											

Remarks: The first barometer was #219 and is still used as the second barometer. On 2/2/61 a new barometer, #530, was installed alongside the old one. After the necessary comparisons were made this new barometer became the official one 3/16/61. A correction of +0.036 inches must be added to the old barometer to make it read the same as the new one.

Remarks: In 1961 used as the second barometer. On 2/2/61 a new barometer, #530, was installed alongside the old one. After the necessary comparisons were made this new barometer became the official one 3/16/61. A correction of +0.036 inches must be added to the old barometer to make it read the same as the new one.

(X) Supplement No. STATE COUNTY DATE INDEX NUMBER 89009 PREPARED 10-1-61

RENDDITION: () Original, () Copy PREPARING FORM Ben W. Hartin, MIO

UNIT STATES DEPARTMENT OF COMMERCE WEATHER BUREAU STATION, ANTARCTICA

AMANDSEN-SOFT SOUTH POLE ELEVATION ABOVE MEAN SEA LEVEL

NUMBER OF LOCATION AIRLINE DISTANCE AND DIRECTION FROM PREVIOUS LOCATION LATITUDE LONGITUDE GROUND ASSIGNMENT STATION (H) ACTUAL BAR-METER (H)

(a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l)

In mess Bldg. First order 1/7/57 Present 90°S 9186. 9186.

WB Form 500-1

AMUNDSEN-SCOTT, STATION INSTRUMENTATION

Instrument Type	Height	From	To	Remarks
		Temperature		
Thermograph				
Min. Thermometer, Liquid in glass	5 ft. above sfc.	11-23-58	1-11-60	Dry bulb temperatures taken from aspirated thermohahn at 4.5 ft., 1-11-60; 1.0 ft., 1-1-61; 5.3 ft., 1-14-61.
Max. Thermometer, Liquid in glass	5 ft. above sfc.	11-23-58	1-11-60	Maximum and Minimum temperatures taken from aspirated thermohahn at 4.5 ft., beginning 1-11-60; 3.0 ft., 1-1-61; 5.3 ft., 1-14-61.
Max. Thermometer, Liquid in glass Telepsychograph, L&N Wheatstone Bridge Recorder with 6 thermohoms	5 ft. above sfc. (See Remarks)	11-23-58 4-2-57	1-11-60	3.0 ft., 1-1-61; 5.3 ft., 1-14-61. Height of Thermohoms: -9.4" (Point #1), -4.5" (Point #1), 4.5" (Point #3), 26.7" (Point #4), 45.1" (Point #2). Thermohahn Point #5 installed and aspirated 2-9-60 at 12.3' above surface. Beginning 3-17-60, #4 point is snow surface temperature. Subsurface thermohahn located in drill hole at depths of 2.0, -4.0, -6.0, -7.0, and -8.0 meters. 10-1-60 snow surface temperature now #3 thermocouple located beneath Hemispheric Radiometer.
Aerovane (Wind Indicator)	9.3 meters above sfc.	12-	-57	<u>Wind</u>
Aerovane (Wind Recorder)		3- 6-57		Located on 45 ft. steel mast.
Barograph, Bendix-Fries, 4-day Barometer, Kollsman, Aneroid Altimeter, setting indicator, Kollsman	9186 ft. MSL	9186 ft. MSL	Pressure	
		1- 9-57	1- 9-57	On 21 Feb. 1961 Barometer #530 installed alongside original Barometer #219. #530 Official Barometer from 16 Mar. '61. Correction to #219 to read same as #530 is +0.036
		1- 9-57	1- 9-57	
				<u>Solar Radiation</u>
Pyrheliometers:				Note: New Solar Radiation Instrument field established, effective 10-13-60.
Eppley, upfacing	5 ft. above sfc.	10-22-57	10-13-60	
Eppley, downfacing, snow albedo	4 ft. above sfc.	10-22-57	10-13-57	
Normal Incidence	3 ft. above sfc.	1957	9-21-60	
Eppley, diffuse sky (shade ring)	4.0 ft. above sfc.	10- 4-60		
Eppley, upfacing	4.0 ft., 3.5 ft. above sfc.	10-13-60		
Eppley, downfacing	14.5 ft. above sfc.	10- 7-60		
Normal Incidence	4.2 ft. above sfc.	9-24-60		
Kipp Solarimeter	4 ft. above sfc.	9-21-60		
Net Radiometer, Beckman & Whitley	4 ft. above sfc.	5- 7-57	10-13-60	
Hemispheric Radiometer, Beckman & Whitley	4 ft. above sfc.	5- 7-57	10-13-60	
Schweizer Net Radiometer (and minus 1.0 meter thermocouple)	2.5 ft. above sfc.	9-15-60		(Formerly Net Radiometer, Beckman & Whitley).
Hemispheric Radiometer and snow surface thermohahn (winter), thermocouple (summer)		10-13-60		
Illuminometer, upfacing and downfacing	4 ft. and 15 ft. above sfc.	1-10-59	10-13-60	
Illuminometer, downfacing		10-13-60		
				<u>Miscellaneous</u>
Bar Gauges, 8 in. standard shielded	3-1/2 ft. above sfc.	1-15-57		
Multiple Recorder, Esterline-Angus		1-28-57		
Ceiling Light K 100		11-20-59		Base line 500 ft.
Rawlinsondes, CMD 1A, AMT 4A	15 ft. above met. office	3-27-57		
CO ₂ Analyzer		1- 6-59		NRL air-monitor unit transferred from Little America V station, installed January 1959.
Sunshine Switch, photoelectric		1-157		Continuous recording on Esterline-Angus recorder.

~~Monthly height changes due to shifting snow surface.~~

REMARKS CONTINUED:

ELEVATION ABOVE GROUND										REMARKS	
WIND INSTRUMENTS	EXTREME THERMOMETER	PSY-THERMOMETER	CHROMEL ALUMINUM	ETHER THERMOMETER	CHROME THERMOMETER	BUCKET TIPPING	WEIGHING GAUGES	RAIN GAGES	8 INCH	(Reason for move, changes in observation programs, effects of buildings or terrain, etc.)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
* See Monthly WBN 10D for actual heights.											

NUMBER	LOCATION	AT THIS LOCATION	AIRLINE DISTANCE AND DIRECTION FROM PREVIOUS LOCATION	TYPE OF STATION	STATION	FROM TO	PREVIOUS LOCATION	GROUNDS ASSIGNED AUTOMATIC BARO-METER (H _a) STATION (H _b)	LATITUDE LONGITUDE	Order	1/7/57	Present	90deg S	—
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
1	No change			First										

STATION Minndisen-Scott COUNTY South Pole STATE Alaska INDEX NUMBER 89009 PREPARED Dec. 1, 1961
 RENDITION: () Original; (X) Supplemental No. _____

UNIT STATES DEPARTMENT OF COMMERCE
 WEATHER BUREAU
 STATION HISTORY

WB Form 500-1

STATION INFORMATION

U. S. DEPARTMENT OF COMMERCE
WIRELESS BUREAU

Dec. 1, 1961

McMABDO, NAF (NGD)

Am J Clin Nutr

1. SISTEMA DESENVOLVIMENTO SUSTENTÁVEL
2. PROJETO 00,03,06,09,12,15,18,21 GCT.

to determine the best route
via USN

ELEVATION ABOVE SEA LEVEL										REMARKS		
NUMBER	NAME OF STATION	LOCATION	TYPE	AT THIS LOCATION	ANTHINE DISTANCE AND DIRECTION FROM PREVIOUS LOCATION	LATITUDE	LONGITUDE	GROUNDS ASSIGNED	ACTUAL BAROMETER (Hg)	STATION	COUNTY	STATE
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)		
1	Mess Hall Building		First	Order	7 Jan. '57	1 Oct. '61	90° S	9186 ⁺	9186 ⁺			
<p>Location is located near geographic pole at an altitude of approx. 9,186 feet (2800 meters). Situated on a snow plain approx. 300 miles from the head of Bearmore Glacier. There are possibly some isolated nunataks within 150 miles along the 120th mer. West. In other directions the polar plateau continues the mountainous without any known landmarks for hundreds of miles, in the sector 40°E Long. through 145°E Long. There are no known landmarks for a thousand miles. Variations in elevation are known to exist, but the slope changes are hardly apparent. In the quadrant 40°E Long. takes place over the plateau is believed to approach an elevation of approx. 13,000 feet, but since the altitude change through 145°E Long. such a great horizontal distance the slope angle would hardly be visible.</p>												
<p>Note: Prior to January 1959 observations were taken in 180th mer. time (LST). During 1959 LST became GCT. After December 1958 GCT but LST reverted to 180th Mer. During 1959 observations taken in 180th mer. time (LST). Measurements made: elevations Note: Prior to January 1959 observations were taken in 180th mer. time (LST).</p>												
<p>(Reason for move, changes in observation programs, effects of buildings or terrain, etc.)</p>												
(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	DATES OF		
<p>*** Max. thermometer installed 6 March 1957 *** Conversion to feet from calculated altitude of 2800 meters *** Relocation to 6.0, to 6.0, October 1959 # Unshaded part of time (periods unknown)</p>												
<p>WB Form 500-1 WB Form 600-1 REMARKS CONTINUED:</p>												
28.8 ⁺	5.0 ⁺	7								11 Relocated July 1957		
29.1 ⁺	6.0 ⁺									12 Relocated January 1959		
29.6 ⁺	4.6 ⁺	5								10 Relocated November 1958		
30.2 ⁺	5.5 ⁺	4								9 Relocated January 1957		
30.5 ⁺	6.0 ⁺	9								8 Relocated January 1957		
33.1 ⁺	5.5 ⁺	10								7 December 1960		
										6 Unknown		
										5 May 1959		
										4 February 1959		
										3 December 1958		
										2 December 1957		
										1 March 1957		
										2 December 1957		
										3 December 1958		
										4 February 1959		
										5 May 1959		
										6 Unknown		
										7 December 1960		
										8 Relocated January 1957		
										9 Relocated November 1958		
										10 Relocated July 1957		
										11 Relocated January 1959		
										12 Relocated January 1959		

REMARKS CONTINUED:

ELEVATION ABOVE SNOW SURFACE												
REASON FOR MOVE												
(Reason for move, changes in observation programs, effects of buildings or terrain, etc.)												
REMARKS												
(1) INSTRUMENTS	EXTREME- PSY-	TELEPSY- CHROM-	ETHER	TRIPPING BUCKET	WEIGHING	8 INCH	RAIN GAGES					
201	#3-4	NON	NONE	-	-	-						
NO CHANGES. MAXIMUM THERMOMETERS REMOVED FROM THERMOSCREEENS												
UNKNOWN DATES.												
MONTHLY HEIGHTS CHANGE SLIGHTLY DUE TO SHIFTING SNOW SURFACES												
# ASPIRATED THERMOMS												
* MINIMUM ONLY												

STATION AMUNDSEN-SCOTT											
OFFICE PREPARING FORM											
RENDITION: () Original; (X) Supplemental No. _____											
C. C.											
STATION	AMUNDSEN-SCOTT	COUNTRY	SOUTH POLE	STATE	ANTARCTICA	INTERNATIONAL INDEX NUMBER	89009	PREPARED	AUGUST 1, 1963	DATE	
NUMBER OF LOCATIONS	1	TYPE	AT THIS LOCATION	ARLINE DISTANCE AND DIRECTION FROM PREVIOUS LOCATION	STATION	FROM	TO	LATITUDE	LONGITUDE	GROUNDS ASSIGNED ACTUAL BAR-METER (Hg)	
(a)		(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
NO CHANGE		WBO	1/7/57	PRESIDENT		90° S		9186	9186	9186	

UNITED STATES DEPARTMENT OF COMMERCE

WEATHER BUREAU

STATION HISTORY

STATION DESCRIPTION AND INSTRUMENTATION
(WEATHER OBSERVATIONS)

Local standard time (in use at land stations) 1200 th mer. Hours to convert to GCT Add _____ Subtract 12

1. TIME OF OBSERVATION (other than aviation, 3- and 6-hourly, radar and upper-air)

Soil temperature **SNOW** Soil moisture

Thickness of ice on water

Frozen ground layer

River stage

Climatological

Evaporation

Other (Specify) 24 hr. 6.5 FT. thermometers

3. INSTRUMENTATION (Location and exposure)

Instrument
(X = in use, S = standby)

Type

Height above
ground

NET OFFICE

Location

Nearest obstruction

Distance and direction of obstruction to instrument

Height of obstruction above instrument

Date commissioned

Commissioned present

exposure

Instrumentation

Reason for redition (Check one or more)

New station

Change, or

Relocation of instrument(s)

Station relocation

Correction of data

Annual rendition

2. ELEVATION AND DATE ESTABLISHED

Elevation

Feet (MSL)

Date

Ground (H)

Field (Ha)

Station (Tp)

Batometer (Hz)

Barometer (Hg)

Climatological Station (Hpc)

Height (L) above

Station

NET OFFICE

Location

Nearest obstruction

Distance and direction of obstruction to instrument

Height of obstruction above instrument

Date commissioned

Commissioned present

exposure

Instrumentation

Reason for redition (Check one or more)

New station

Change, or

Relocation of instrument(s)

Station relocation

Correction of data

Annual rendition

2. ELEVATION AND DATE ESTABLISHED

Elevation

Feet (MSL)

Date

4. Remarks and description of station exposure (Continue on separate 8" x 10 1/2" sheet, if necessary) NEARLY FLAT PLATE OF SNOW WITH GENTLE SLOPE TO GRID NORTH AND EAST. NO HILLS, ONLY SIGNIFCANT CAUSED BY CONSTANT WIND. PRINCIPAL WIND IS NNE. E WINDS BRING FAIR WEATHER, WINDS FROM SW, NW, ENE BRING STORMY WEATHER. ICE CRYSTALS FROM CLEAR SKY FREQUENT PLAGUE. CAMP STEAM, ONLY SOURCE OF AIR POLLUTION BUT FRAZZLING WIND MAKES THIS OF LITTLE CONSEQUENCE. DIRECTIONS ARE BASED ON GRID SYSTEM WITH E & O MERIDIAN. *MEAN WINDS - see attached sheet.

Prepared by (Signature) HARRY R. SPORN Title Supervisory Met.Tech. Station AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICA

W3 FORM 500-10 (1-60)	U.S. DEPARTMENT OF COMMERCE WEATHER BUREAU		R A O APPROVAL	Station AMUNDSEN-SCOTT STATION SOUTH POLE, ANTARCTICA
ANNUAL	SVCN TIB 2			Prepared by (Name, title, station and date) HARRY R. SPOLEN SUP. MET. TECH.

STATION DESCRIPTION AND INSTRUMENTATION

Effective date

AUGUST 1, 1963

Reason for
relocation
(Repeat
data in
items o
through
c for
each
shelter)

Change of items (Specify) Correction of items (Specify) Relocation of instruments (Specify and give distance and location from previous location)

Section II.A. AIR TEMPERATURE AND HUMIDITY MEASURING AND RECORDING EQUIPMENT depths below surface

1. Shelters (Indicate for each type (large, medium, small, other) the direction and distance from office

a. Indicate for each type (large, medium, small) through items o through c for each shelter)
MEASUREMENTS OF DIPTHS 5:19:15;
25:50:50 CMS. INDICATIVE.
355 deg. 250' 360 deg. 245' C N TOWER 11 deg. 570' FROM MET OFFICE
b. Height of floor (in feet) for each type
Snow about 4' about 4' HEIGHTS: 42.4:27.9:3.8FT

Above
ground
Above
roof
c. Is shelter lighted? (Check one box for each type)
 Yes No Yes No Yes No

Instruments
d. Indicate instruments and shelter location or other location of each

Instrument	Large	Med.	Small	Other	Instrument	Large	Med.	Small	Other
Teledipsometer					Telethermometer				
Type					Telemeteroscope				
Hygrothermometer					Telethermograph				
<input type="checkbox"/> Metameter					Thermograph				
Elec. Resist.: Slide wire					Thermometers				
<input type="checkbox"/> Single <input type="checkbox"/> Double					Minimum	X			
Dewcel hygrometer					Maximum				
Hygrograph					Dial type max-min				
Psychrometer aspirated by:					Dry bulb				
Motor driven fan	X (Not in use)				Wet bulb				
Hand-driven fan					Other instruments				
Whirling mechanism:					(Specify) three aspirated thermometers				
Hand-crank					42.4, 27.9, 3.8 ft above snow surface				
Sling									
e. Are IRREGULAR minimum thermometers mounted on a separate post? In Shelters TIB 2									

2. Describe and give location of nearby objects which affect temperature and humidity values, e.g., buildings, chimneys, trees, pavement, evaporative coolers, steam vents, etc. For ground installations, indicate nature of surface material under and around shelter or support (soil, gravel, etc.) (If more space is needed, continue on reverse.)

SECTION ENTIRELY SNOW. PREVAILING WIND FROM NNE(GRID) SO CAMP RARELY AFFECTS INSTRUMENT EXPOSURE. NO HUMIDITY MEASUREMENTS ARE MADE WITH CURRENT INSTRUMENTS AS TEMPERATURES TOO LOW.

SVCN

Section II.B. SOIL TEMPERATURE MEASURING AND RECORDING EQUIPMENT

- Type of recorder
- WILMSTONE BRIDGE; POTENTIOMETERS
- Describe surface of soil (type of soil and soil cover), drainage, direction of slope, gradient, etc., of plot (if more space is needed, continue on reverse.)
- Snow surface relatively flat with changing sastrugi. Snow depth is approximately 8000 to 9000 feet. Depths of thermometers change due to changing snow surface caused by the ever-constant surface winds.

WB FORM 500-10 (4-24-61)	U.S. DEPARTMENT OF COMMERCE WEATHER BUREAU	R&O APPROVAL	Station AMUNDSEN-SCOTT, SOUTH POLE, Antarctica
		Prepared by (Name, title, station and date) HARRY R. SPOHN SUPERVISORY MET. TECHNICIAN	
		Effective date (UC) AUGUST 1, 1963	

STATION DESCRIPTION AND INSTRUMENTATION

Reason for rendition	Change of items (Specify)	Correction of items (Specify)	Relocation of instruments (Specify and give distance and location from previous location)
ANNUAL	NO. 1	2 f.g.	NONE

Section III - CEILING MEASURING AND RECORDING EQUIPMENT

1. Balloons (ceiling) (Check)	<input type="checkbox"/> 10-Gram		
2. Ceiling light	<input type="checkbox"/> 30-Gram NO/NONR. ON HAND		
a. Make	CROUSE-HINDS	b. Model or type	K100
c. Diameter (Inches)	16"	Primary reflector	16"
d. Cable	Length (Feet) 550'	Gage 1/4	Conductors 2
e. Lamp	Volts 12	Watts 4.20	Type (No.) 420G25P/12
f. Location with respect to office building	CEILING	Observation point Projector	CEILING LIGHT NOT IN USE. 5501 GRID NORTH
g. Length of baseline (feet)	5001		
3. Cellometer			
a. Projector	Make	Type of lamp	Location with respect to office
Fixed beam			
Rotating beam			
b. Detector	Make	Baseline (ft.)	Location with respect to office
Fixed beam		0	
Rotating beam		N	
c. 2nd detector	Make	E	
d. Recorder	Make	Type	
Fixed beam			
Rotating beam			
4. Attach drawings of location of separate accessory items such as control switches, relays, fuses, markings, time switches, magnetic conductors, etc., and location of cable, conduit, etc. hidden in walls or under ground OR check box and ENTER date.	<input type="checkbox"/> No change in previous drawings dated		
Section IV - VISIBILITY CHARTS AND EQUIPMENT			
1. Stations reporting visibility attach to this form two visibility charts on WB Form 610-2A, one chart will include all markers throughout the entire range of visible objects. The other, on an exploded scale, will include only those markers within 1-1/2 miles of the observation point. Include the location of any control tower from which visibility observations are taken. (Use Cir. N, Chap. 2 for a guide.) OR check box and ENTER date. NEW CHARTS SUBMITTED	<input type="checkbox"/> No change in previous charts dated		
2. Trans-missometer(s)	a. Make	N	b. Model or type
	c. Location with respect to office	O	
	d. Location with respect to ILS runway	N	e. Baseline (ft.)
	f. Location of recorders and indicators used (Tower, WB office, etc.)		
3. Attach drawings of location of separate accessory items and location of cable, conduit, etc. hidden in walls or underground. OR check box and ENTER date.	<input type="checkbox"/> No change in previous drawings dated		

WB FORM 500-10 (4-24-68)		U.S. DEPARTMENT OF COMMERCE WEATHER BUREAU	
		R A O APPROVAL	Station ARNDSEN-SCOTT, SOUTH POLE, ANTARCTICA
		Prepared by (Name, title, station and date) HARRY R. SPOHN SUPERVISORY MET. TECHNICIAN	
Reason for rendition ANNUAL	Change of items (Specify) 1a, c	Correction of items (Specify) None	Effective date ALGIST 1, 1963 Relocation of instruments (Specify and give distance and location from previous location)

STATION DESCRIPTION AND INSTRUMENTATION

Reason for rendition ANNUAL	Change of items (Specify) 1a, c	Correction of items (Specify) None	Effective date ALGIST 1, 1963 Relocation of instruments (Specify and give distance and location from previous location)
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Section V - WIND MEASURING AND RECORDING EQUIPMENT (Submit data as follows for each installation under
Items 1 and 2.)

a. Check which	b. Height of rotor and vane above Ground (Ft.)	Roof (Ft.)
<input type="checkbox"/> F420A <input type="checkbox"/> F420B <input type="checkbox"/> F420C	<input type="checkbox"/> F430	<input type="checkbox"/> F431
<input checked="" type="checkbox"/> Other (Specify) BENDIX-FRIEZ AEROWANE SYSTEM	30' OVER SNOW	

c. Number and location of repeator indicators in system

ONE INDICATOR LOCATED IN PASSAGeway OUTSIDE WEATHER OFFICE.

d. Recorder (Check which)

<input type="checkbox"/> F311	<input type="checkbox"/> F312	<input type="checkbox"/> F313	<input checked="" type="checkbox"/> Other (Specify) B-P AEROWANE
			Chart No. 516993

e. Cable

Length (Ft.) 3001	Gage 13	Conductors
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f. Location of rotor and vane

ON STEEL MAST BEARING 13 DEGREES 270° FROM MFT. OFFICE

g. Owner of system, or components (Specify) when other than Weather Bureau

h. Owner of system, or components (Specify) when other than Weather Bureau

2. Wind
system
composed
of

a. Anemometer (Check which)	b. Height of rotor above Ground (Ft.)	Roof (Ft.)
<input type="checkbox"/> F103 <input type="checkbox"/> F102 <input type="checkbox"/> Other (Specify)		

c. Wind vane (Check which)

<input type="checkbox"/> F010	<input type="checkbox"/> F011	<input type="checkbox"/> Other (Specify)
d. Height of vane above Ground (Ft.)		

d. Height of vane above
Ground (Ft.)

e. Indicator (Check which)

<input type="checkbox"/> F221	<input type="checkbox"/> F221A	<input type="checkbox"/> Other (Specify)
f. Cable		

f. Cable

Length (Ft.) 3001	Gage 13	Conductors
----------------------	------------	------------

g. Location of rotor and vane

h. Owner of system, or components (Specify) when other than Weather Bureau

3. Attach drawing of location of cable or conduit connecting the sensing elements to the indicators, power source, etc., and the location of objects suspected of causing nonrepresentative speed or direction values OR check box and ENTER date.

XXXX no change in previous drawings
dated

Section VI - SUNSHINE DURATION EQUIPMENT NONE * ALL SUNSHINE EQUIPMENT REMOVED 12/31/62

1. Switch

a. Type (Check which)	b. Location
<input type="checkbox"/> Marvin mercury	<input type="checkbox"/> Photoelectric
<input type="checkbox"/> Other (Specify)	

2. Recorder

a. Make	b. Type
---------	---------

WB FORM 500-10 (4-24-68)		U.S. DEPARTMENT OF COMMERCE WEATHER BUREAU		R A O APPROVAL	Station AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICA
				Prepared by (Name, title, station and date) HARRY R. SPOON SUP. MET. TECHNICIAN	

STATION DESCRIPTION AND INSTRUMENTATION

Effective date

AUGUST 1, 1963

Relocation of instruments (Specify and give distance and location from previous location)

DATE UNKNOWN

8 INCH PRECIPITATION GAGE REMOVED

Reason for rendition ANNUAL	Change of items (Specify)	Correction of items (Specify)
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Section VII - PRECIPITATION MEASURING AND RECORDING EQUIPMENT

1. Eight-

inch non-

recording

gage

Ground (Ft.)

R E M O V E D.

Roof (Ft.)

b. Shielded

Yes

No

2. Tipping-bucket gage	a. Make	Ground (Ft.)	Roof (Ft.)	c. Shielded
	b. Model			d. Single e. Double f. Triple

3. Weighing-type recording gage	a. Make	Ground (Ft.)	Roof (Ft.)	g. Top of gage above	h. Shielded
	b. Capacity (inches)	c. 2.4	d. 6	e. Gears (hours)	f. Chart No.

4. Describing the installation of the gages telling location and height of local obstructions which might affect the catch (i.e., trees, buildings, overhead wires, etc.), and how the gages are anchored to the surface	d. 9	e. 12	f. 24	g. 6	h. 12
DUE TO NEARLY CONSTANT WIND FLOW AND PAUCITY OF SNOWFALL 8 INCH GAGE REMOVED.					

50 SNOW STAKES LOCATED APPROXIMATELY 600 FEET GRID NW OF WEATHER OFFICE

ARE READ AT BEGINNING OF EACH MONTH AND PRECIPITATION(SNOW) ACCUMULATION OR DEFICIT DETERMINED FROM COMPARING READINGS ON MONTHLY BASIS. SNOW STAKE FIELD APPROXIMATELY 75 FEET WIDE AND 100 FEET LONG. STAKES APPROXIMATELY 10' APART.

FIELD ORIENTATED APPROX GRID EAST-WEST SINCE PREVAILING WIND NNE.

1. List special equipment used such as towers, shields, snow gages, etc.
2. SNOW STAKE FIELD CONSISTING OF 50 SNOW STAKES. MEASURED BEGINNING EACH MONTH.
3. SNOW STAKE FIELD CONSISTING OF 50 SNOW STAKES. MEASURED BEGINNING EACH MONTH.
4. SNOW STAKE FIELD CONSISTING OF 50 SNOW STAKES. MEASURED BEGINNING EACH MONTH.
5. SNOW STAKE FIELD CONSISTING OF 50 SNOW STAKES. MEASURED BEGINNING EACH MONTH.
6. SNOW STAKE FIELD CONSISTING OF 50 SNOW STAKES. MEASURED BEGINNING EACH MONTH.
7. SNOW STAKE FIELD CONSISTING OF 50 SNOW STAKES. MEASURED BEGINNING EACH MONTH.

6. Weighing-type scale (for water equivalent of snow)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Make
	<input type="checkbox"/>	<input type="checkbox"/>	

7. Attach drawings of wiring for the tipping-bucket gage, OR check box and ENTER date

dated

Section VIII - MULTIPLE REGISTERS AND TOTALIZING INDICATORS1. Register
(Check type) Triple register MOD3 Other (Specify)2. Elements recorded (Check each)
 Wind speed Wind direction Other (Specify)
 Rainfall Sunshine3. Elements totaled
(Check one or more) None Sunshine Wind speed Rainfall

4. Storage battery	a. Make	b. Volts	c. Amperes/hour capacity
5. Battery charger	b. Type/model	c. Volts	d. Amperes/hour capacity
6. Selenium-rectifier-type power supply (Check one)	c. I	d. No	
	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

7. Attach drawing of wiring for multiple register and totalizing indicators, OR check box and ENTER date.

 No change in previous drawings dated

WB FORM 500.10 U.S. DEPARTMENT OF COMMERCE WEATHER BUREAU		R A O APPROVAL	Station AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICA	Form WBAN 54-1.2. 1A (1-60)
STATION DESCRIPTION AND INSTRUMENTATION				
Reason for reduction ANNUAL		Change of items (Specify) Correction of items (Specify) (See the addendum to Circular N or Manual of Barometry for definitions and instructions relative to changes in barometer elevation)		
Section IX - PRESSURE MEASURING EQUIPMENT. All data on this page shall apply to the current location of instruments. (See the addendum to Circular N or Manual of Barometry for definitions and instructions relative to changes in barometer elevation)				
Part A - HEIGHT AND ELEVATION DATA PERTAINING TO THE MERCURIAL STATION BAROMETER				
Description of data		Height or elevation in feet and hundredths	Authority giving survey information (Agency or title of Surveyor)	Date of form (or survey)
Item	Check one <input type="checkbox"/> Above <input checked="" type="checkbox"/> Below			
1. Height of ivory (or zero) point of barometer, H_2 , above or below fixed point				
2. Height of fixed point, H_1 , above or below reference plane				
3. Height of barometer, H_2 , above or below reference plane				
4. Elevation of reference plane above mean sea level				
5. Elevation of ivory (or zero) point of barometer, H_2 , above mean sea level		9,186		Early 1957
6. Describe and identify fixed point				
7. Describe and identify reference plane				
Part B - MERCURIAL BAROMETER DATA				
Barometer data		Station barometer	Extra barometer	Barometer corrections
1. Barometer serial number		530	<input type="checkbox"/> In. <input checked="" type="checkbox"/> Mb.	<input type="checkbox"/> In. <input checked="" type="checkbox"/> Mb.
2. Scale range: <input checked="" type="checkbox"/> In.	<input type="checkbox"/> MD.	From 14.0	6.	For scale errors and capillarity -0.009
3. Cistern type: (adjustable or fixed)		To 31.0	7.	For gravity +0.034
4. Elevation of ivory (or zero) point, ft. (MSL)			8.	Removal correction (reduction from H_2 to H_p) 0
11. Latitude	90° 00' <input type="checkbox"/> N <input checked="" type="checkbox"/> S		9.	Sum of above corrections +0.025
12. Assigned station elevation H_p	Feet	1. Make	9.	Variable removal <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2. Scale range	10.	Residual Correction used <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
13. Field elevation H_a		3. Elevation above mean sea level (to the nearest whole foot) 9,186		
14. Climatological station elev. H_{pc}	9186	Part C - ANEROID BAROMETER		
15. Assigned station elevation in'gft. if height of 250 mb. surface is computed		1. Make	1.	
16. Normal annual temperature MINUS 56.0 °F	3. Gears (day) <input type="checkbox"/> 1/4	2. Scale range	2.	
17. Mean annual pressure at barometer elevation, H_2 , (center to nearest 0.1 in. H_g) 20.1	4. Type of mounting (rigid, felt, rubber, springs, etc.) Rubber	From <input checked="" type="checkbox"/> In. <input type="checkbox"/> Mb.	To 19.00	3. Elevation above mean sea level (to the nearest whole foot) 9186
			4.	1 <input type="checkbox"/> 4 <input type="checkbox"/> 7

WB FORM 500-10 U.S. DEPARTMENT OF COMMERCE WEATHER BUREAU R. A. O APPROVAL Station AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICA
(1160) Prepared by (Name, title, station and date)
HARRY R. SPOHN SUP. MET. TECHNICIAN

STATION DESCRIPTION AND INSTRUMENTATION

Reason for rendition ANNUAL	Change of items (Specify)	Correction of items (Specify)	Effective date AUGUST 1, 1963	Station	AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICA						
				Relocation of instruments (Specify and give distance and location (from previous location))							
Section X - WINDS ALOFT EQUIPMENT AND HISTORY											
1. Balloon inflation	a. Inflation room for Sep. bldg. Office bldg.	b. Location (Check which) Other (Specify)	c. Location with respect to office and release point								
	<input type="checkbox"/> Pilot <input checked="" type="checkbox"/> Raob <input type="checkbox"/> Combination	X	213 ¹ Grid E of Met. office; thru overhead hatch of inflation shelter.								
2. Pilot Raob	N	O	N	I							
	d. Inside dimensions	Height	Width	Length	e. Heated						
	Feet	Inches	Feet	Inches	Yes No						
<input type="checkbox"/> Pilot <input checked="" type="checkbox"/> Raob <input type="checkbox"/> Combination	12	00	15	4	19 4 X						
<input type="checkbox"/> Pilot <input type="checkbox"/> Raob	(14 over doors)				Oil heater in adjacent room w/ fan.						
f. Balloon exit(s)	8' x 8' overhead hatch										
Number 1											
Number 2											
g. Helium pipe line (Check one or more)					h. Helium used per year (No. of cylinders)						
<input type="checkbox"/> Yes <input type="checkbox"/> High pressure <input type="checkbox"/> Low pressure					1. Avg. no. of cylinders stored at one time						
i. Cylinders stored (location)											
k. No. of hydrogen generators on hand	l. Type GILL LOW PRESSURE(2) SMALL PIBAL SIZE (1)					m. Kind of chemicals used ALUMINUM CHIPS & CAUSTIC SODA GRANULAR CALCIUM HYDRIDE					
3											
n. Describe balloon conditioning equipment and any special features of the winds aloft equipment:											
Dry heat box of local manufacture in which temp 95 to 105 degrees F. for 24 hours; then moist heat box 75 deg. C. for 24 hours. Diesel treated in winter											
o. Historical winds-aloft observation record (from first location, or observational change, immediately prior to January 1, 1950) Enter "P" for pibal, "RW" for rawin, and "RB" for rabal. If more than one type is made at a scheduled time, indicate pre-dominant type. Once a complete history of observations has been recorded on this form, only the last entry of the previous form and subsequent changes need to be recorded preceded by this note: For previous record see form prepared 12/31/61											
p. Place of observation (Name of airport, building, etc.)						Period of observations (dates)		Times (GCC) and types of observations			
RADOME ABOVE MESS BLDG.	From 3/27/57	To PRESENT	No. of days	Time	Type	Time	Type	Time	Type		
			2	0000	RW	1200	RW				
						(ONLY 0000Z RW TAKEN DURING DARK PERIOD 1963 - FROM 2/16/63 TO 11/1/63) (RADIGMETER SONDIS FLOWN EVERY THIRD DAY FROM 3/22/63 TO 9/21/63)					
PIBAL SHELTER ADJACENT TO						0000Z.					
INFLATION BLDG						3/57	PRIOR TO	PIBALS & CEILING BALLOONS			
						1	961	NO PIBAL QUARTERS AS SUCH EXIST AS OF THIS DATE. REMOVED 3/63.			

WB FORM 500-10 (4-24-68) U.S. DEPARTMENT OF COMMERCE WEATHER BUREAU		R A O APPROVAL	Station ANTARCTICA ANTARCTICA, SOUTH POLE,
			Prepared by (Name, title, station and date)
			HARRY R. SPOHN SUP. MET. TECHNICIAN
STATION DESCRIPTION AND INSTRUMENTATION		Effective date	AUGUST 1, 1963
Reason for rendition AMENDMENT		Relocation of instruments (Specify from previous location)	
Change of items (Specify)		Correction of items (Specify)	

Section X - WINDS ALTOFT EQUIPMENT AND HISTORY (Continued)			
3. Pilot balloon equipment (Complete these data for each)		Make	Sep. wide angle Yes No Support Adjust., anchored Tripod
(1) DAVID WHITE		X	X
(2)			
b. Theodolite platforms (Complete these data for each)		Location with respect to office building	On tower, building, etc. (Specify)
(1) ABOVE MFT OFFICE		ON SF(GRID) CORNER OF RADOME PLATFORM	
(2)			
Wind break		Height of sides (feet)	Type of construction
(1) X			
(2)			
Dome		Describe	Elevation of floor (meters and tensils) Above ground X Above mean sea level
(1) X		TRIPOD IS SET UP ON GRID SF CORNER RADOME PLATFORM	SNOW 2 meters
(2)			2803.6 m
c. Identify check point(s)			
FLAGPOLE AT SITE OF SOUTH POLE METHOLOGICAL TOWER (TOP PLATE)		Elevation angle 3° 51' 0" 2° 0" 0"	Azimuth angle 331° 0" 193° 6" 0"

4. Rawinsonde equipment		<input type="checkbox"/> SCR-658 <input type="checkbox"/> GMD-1 <input type="checkbox"/> KX GMD-1A <input type="checkbox"/> WBRT-57 <input type="checkbox"/> Other (Specify)	
b. Location and distance from office building		c. Elev. of center of antenna (meters and tensils) Above ground SNOW Above mean sea level	
DIRECTLY ABOVE MET. OFFICE		3° 51' 0" 2° 0" 0" 2807.1 m.	
d. Identify check point(s)		Elevation angle 28.8° 0" 0" Azimuth angle 267.4° 0" 0"	
R/S TRANSMITTER ON AURORA TOWER		f. Method of heating shelter ELECTRIC HEATERS AND DUCTS	
e. Type of shelter for tracking equipment and observer		FROM MAIN HEATER IN MESS HALL.	
STANDARD WR RADOME FOR TRACKING ANTENNA AND RECEIVERS; RECORDERS IN MFT OFFICE DIRECTLY BELOW			
g. Is forced ventilation used? h. Describe ventilation system			
(1) Yes XX/No			
i. Wind-aloft plotting board used in shelter?		Size of board	Method of mounting board
(1) Yes XX/No		BOARD MOUNTED ON WALL IN MFT OFFICE	

5. Intercommunication facilities		Check which	
		<input type="checkbox"/> Raob recorder to theodolite platform <input type="checkbox"/> Raob recorder to rawinsonde equipment <input type="checkbox"/> Raob recorder to instrument shelter	<input type="checkbox"/> Theodolite platform to rawinsonde equipment
			XXX(Other /Explain) COMMUNICATIONS TO HARRINGTON HOUSE AND THE NRL BLDG. AND TO BAKER GENERATOR HOUSING.
			<input checked="" type="checkbox"/> Raob recorder to release area

NOTES ON INFLATION BLDG AND HEATER ROOM

1. In January, 1963 moved new Gill Hydrogen Generator into inflation building in place of old Gill. Moved old gill to opposite corner of room.
2. Mr. Roberts built a storage bin to hold the aluminum chips - it was initially filled with approximately one ton of the chips. A small box at bottom was used as dipping space to fill cream can with sufficient aluminum to generate gas. Dipping space was not shown.
3. The storage Wonder-Arch is quite close to inflation building. Outside it does prevent somewhat the making of a running release of raob balloon account of danger of falling into the sloping area around the sides of the arch...they are not packed in with snow yet.
4. All remnants of the PIBAL area that was above the heater room have been removed, and a ceiling 7' high above the floor was laid by HtS and KJ to aid in cutting down the amount of space the ONE Preway heater would have to heat. As can be seen from the drawing the Preway heats the entire space of the inflation building too.
5. DURING THE winter of '63 & an effort was made to heat Baker generator space too by opening a circulation system between heater room, inflation building, through the duct for the Baker Generator hose, then through the duct from the Baker room back to inflation(heater) room. The one fan shown was supported by another fan placed just in front of the duct as it entered the heater room from the Baker room. It was just too cold to do much good!
6. The one preway does an adequate job in periods of light wind, raising the temperature in the inflation room to +20C and sometimes higher - but it's not very effective during winds that exceed 18 to 20 knots.
7. The home-made dry heat balloon conditioner is sitting on top of moist heat conditioner. No definite results obtained as to whether this dry heat box helped in attaining higher flights.

hrs

WB-FORM 500-10
(424-88)
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

STATION DESCRIPTION AND INSTRUMENTATION

Reason for rendition ANNUAL 23	Change of items (Specify)	Correction of items (Specify)	Effective Date ALL RADIATION EQUIPMENT REMOVED 12/31/62 EXCEPT ONE R&W RADIOMETER (NETY)
	ALL ITEMS EXCEPT	From previous location	

Section XII - SOLAR RADIATION EQUIPMENT

1. Pyrheliometers
- a. Total solar Eppley radiation (Check each type used)
 - 10-junction
 - 50-junction

b. Describe location

ALL REMOVED FOR 1963

c. Normal incidence radiation, Eppley. Describe location

d. Other PICKMAN & WHITNEY NET RADIOMETER

No. of junctions

1

Make

PICKMAN & WHITNEY

Describe location

RADIOMETER LOCATED 200' FEET DUE GRID NORTH OF OFFICE, USED AS
AIM IN CLOUD DIRECTION DURING DARK PERIOD OF 1963, THUS ANY CLOUD
PASSING OVER RADIOMETER WOULD CAUSE SHIFT OF TRACE ON RECORDER IN OFFICE.

2. Recorders

	Make and model	Chart No.
a. Roll chart	L&N 6pt AZAR 1178093; 1178058; 1203244 L&N 2pt TRMP 1219388; 1219508	857
b. Circular chart		857

c. Describe location
Located in rack in Harrington house, to be re-installed for
commencement of full Radiation program again in 1964 (on Nov. 1, 1963.)

3. Attach drawing showing current location of wiring between pyrheliometer and recorder
OR check box and ENTER date.

- No change in previous drawings
dated

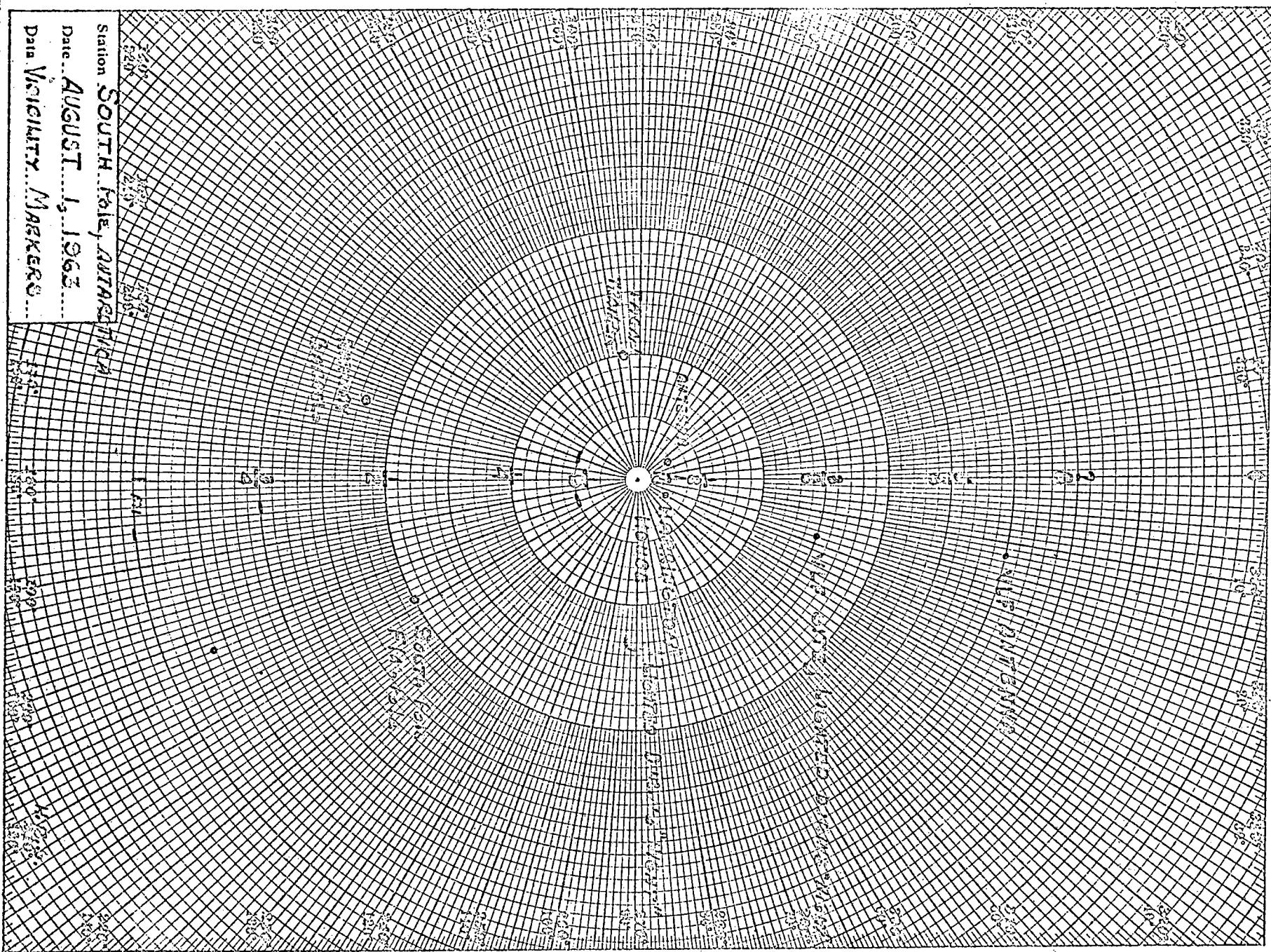
SUPPLEMENTAL SHEET TO MEAN IOD DATED AUGUST 1, 1963

HEIGHTS AND DEPTHS OF THERMOMS AS OF THIS DATE:

<u>ASPIRATED THERMOMS:</u>	+42.4°	+27.9°	+3.8°
<u>SUBSURFACE THERMOMS</u>	-3.2°	-4.08°	-6.05°
	+11.6°	-14.2°	=20.7°

THERMOMS AT -5, -10, -15, -25, -50 centimeters became inoperative 12/4/62
when Construction crew cut wires. Have not been fixed account no correct
wire on hand.

POLAR COORDINATE



Station **SOUTH POLE, ANTARCTICA**
Date **AUGUST 1, 1963**
Data **VICINITY MARKERS**

BEST AVAILABLE RECORD

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
INSTRUMENT EXPOSURE AND STATION LAYOUT DIAGRAM

1

Station AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICA

Prepared By (name, title, station) Harry R. Spohn, Sup. Met. Tech.

Amundsen-Scott, South Pole, Antarctica

Use this form for scale diagram prepared MAIN WEATHER BUREAU
as attachments to WB Form 500-10.

OFFICE IN GALLEY BUILDING

Effective Date AUGUST 1, 1963

RAO Approval

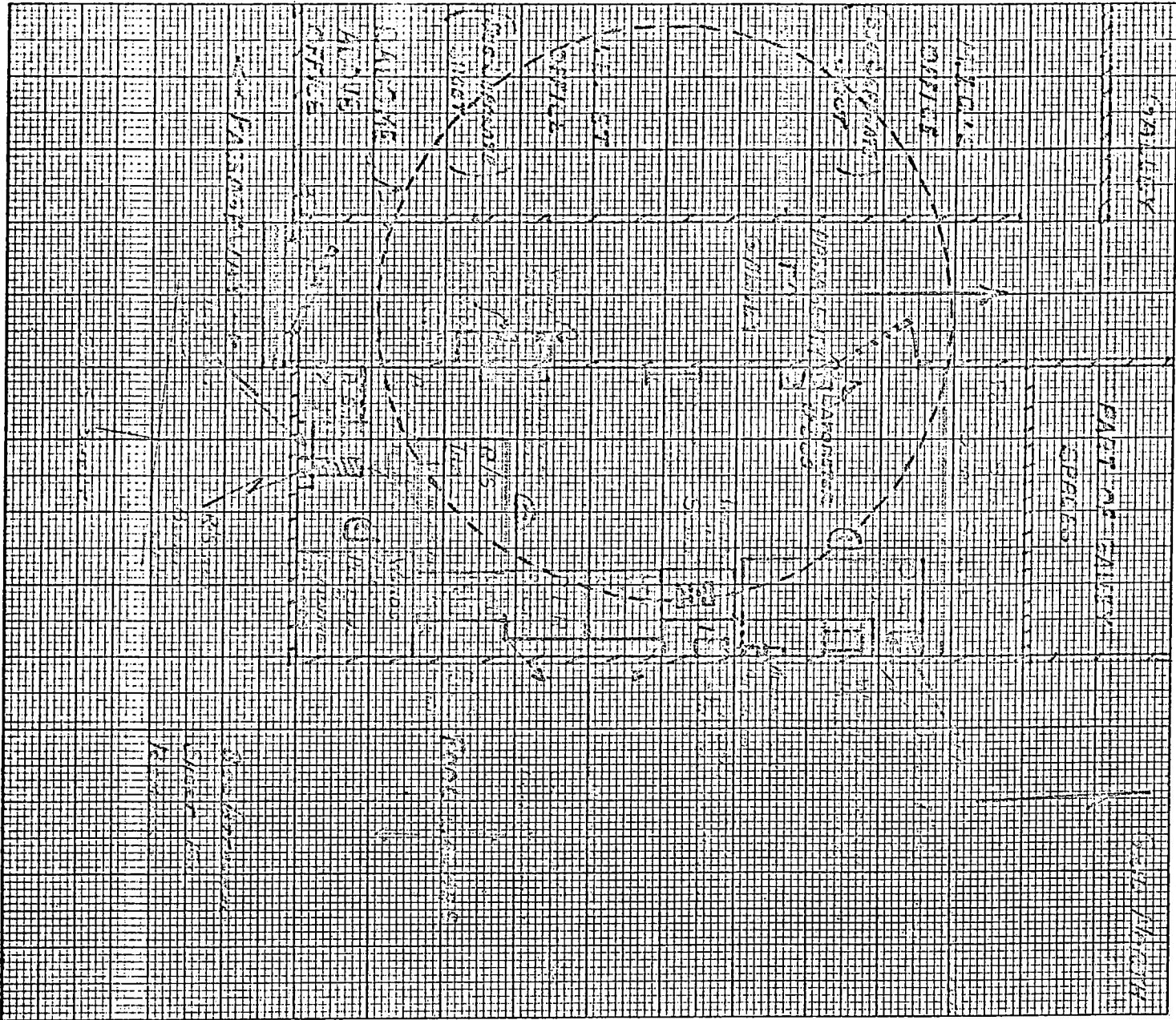
Reason for Revision

Changes made during 1962-63

Scale 1" = 1'

Original N = 80th LONG.

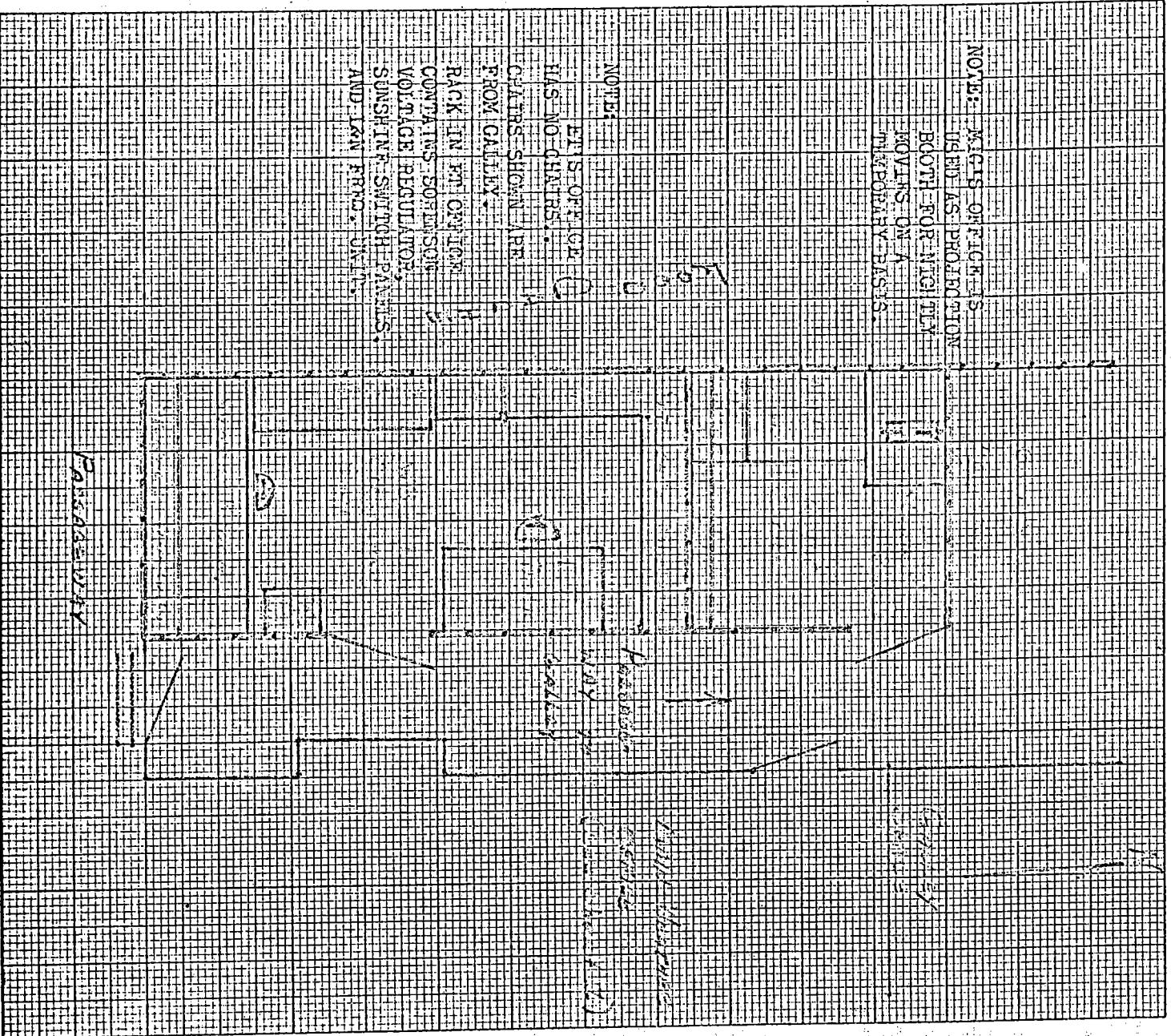
USCOMM-WB-DC 185



WB Form 500-11
(S-5)
(Formerly 400-2)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU.
INSTRUMENT EXPOSURE AND STATION LAYOUT DIAGRAM

Station	AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICA	Effective Date	AUGUST 1, 1963	RAO Approval
Prepared By (Name, Title, Station)	HARRY R. SPOHN, SUP. METEOR.	Reason for Revision	REFLECT CHANGES MADE DURING 1962-63.	
AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICA			Use this form for scale diagrams prepared NFM-MIC'S OFFICER AND AS ATTACHMENTS TO WB FORM 500-10.	
ENLARGED ET QUARTERS		Scale	$\frac{1}{4}'' = 1'$	
		Orientation of North Grid	N = 0 Long.	
			USCOMM-WB-DC. IS	



BEST AVAILABLE RECORD

AERO

ASB

3

ASB

WD Form 500-11
(6-58)
(Formerly 450-2)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
INSTRUMENT EXPOSURE AND STATION LAYOUT DIAGRAM

Station AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICA

Effective Date AUGUST 1, 1963

RAO Approval

Prepared By Name, Title, station, HARRY R. SPOHN, SUP. METECH.

AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICA

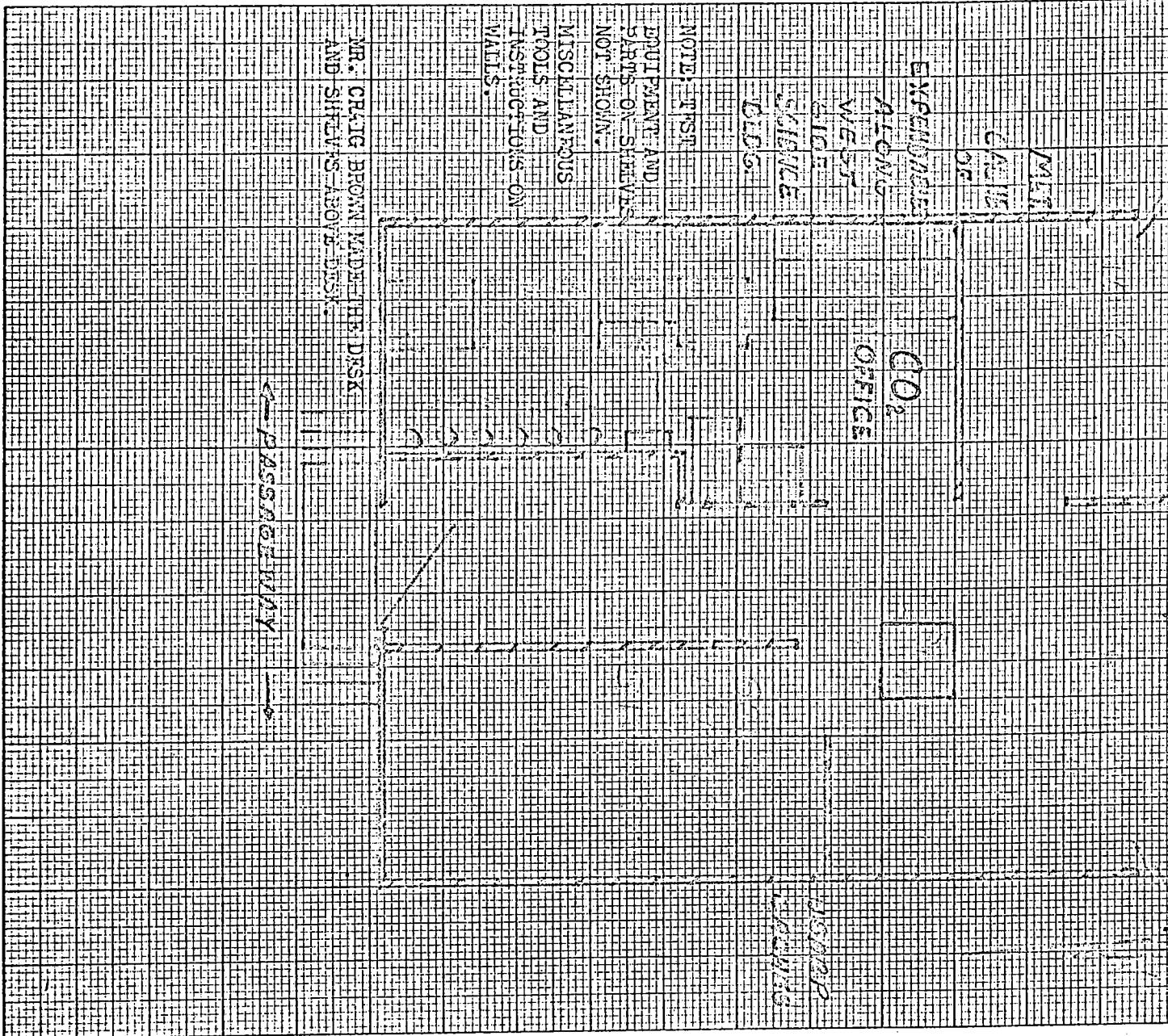
Reason for Revision
Use this form for scale diagram prepared WB CO₂ OFFICE,
as attachments to WB Form 500-10.

Scale $\frac{1}{400}$ = 1'

Orientation of North
Co-Lon/R. = Grid N.

BUILDING

USCOMM-WB-DC 156



WB Form 500-11
(6-58)
(Formerly 60-2)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
INSTRUMENT EXPOSURE AND STATION LAYOUT DIAGRAM

Station	AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICA		Effective Date	AUGUST 1, 1963	RAO Approval
Prepared by (name, title, station)	HARRY R. SPOHN, SUP. METECH.		Reason for Revision		
AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICA		CHANGES MADE DURING 1962-63			
Use this form for scale diagrams prepared as attachments to WB Form 500-10.		Scale	$\frac{1}{4}^{\text{in}} = 1^{\text{m}}$	Orienteation of North	
ADJOINING HEATER ROOM		USCOMM-WB-DC 186			

COPY

CERO

DRAFT

GUIDE

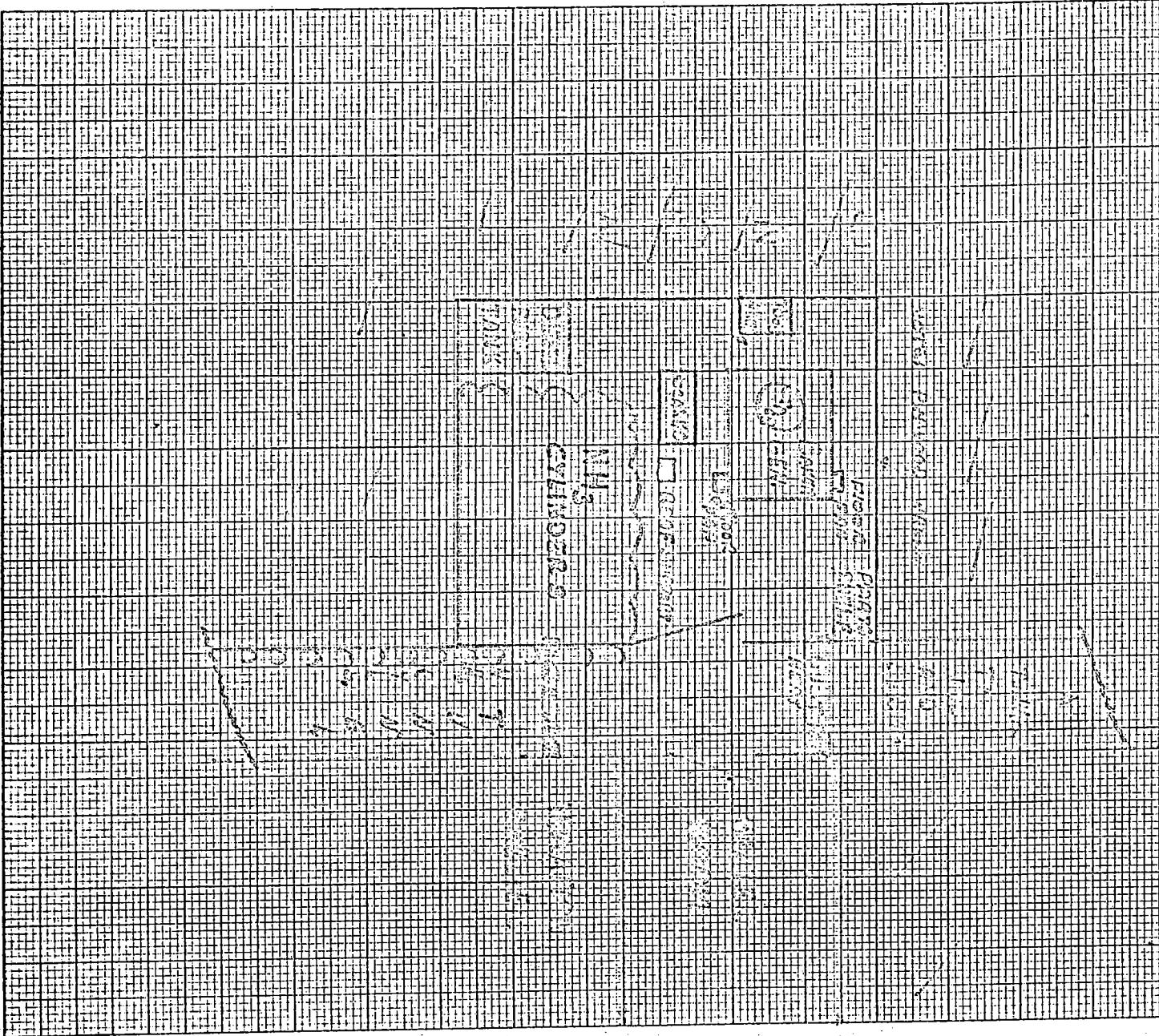
WB FORM 300-11
(Formerly 48-2)U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
INSTRUMENT EXPOSURE AND STATION LAYOUT DIAGRAM

Station AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICA

Effective Date AUGUST 1, 1963 RAO Approval

Prepared By (name, title, station) HARRY R. SPOHN, SUP. MTECH
AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICAReason for Revision
Use this form for scale diagrams prepared BAKED GENERATOR ROOM
as attachments to WB Form 300-10, ERUCTION DURING 1961-62Scale $\frac{1}{4}$ in = 11 CHANGES DURING 1962-63
Orientation of North ←

USCOMM-WB-DC 156



BEST AVAILABLE RECORD

WB Form 500-11 U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
 (G-88) INSTRUMENT EXPOSURE AND STATION LAYOUT DIAGRAM
 (Formerly 460-2)

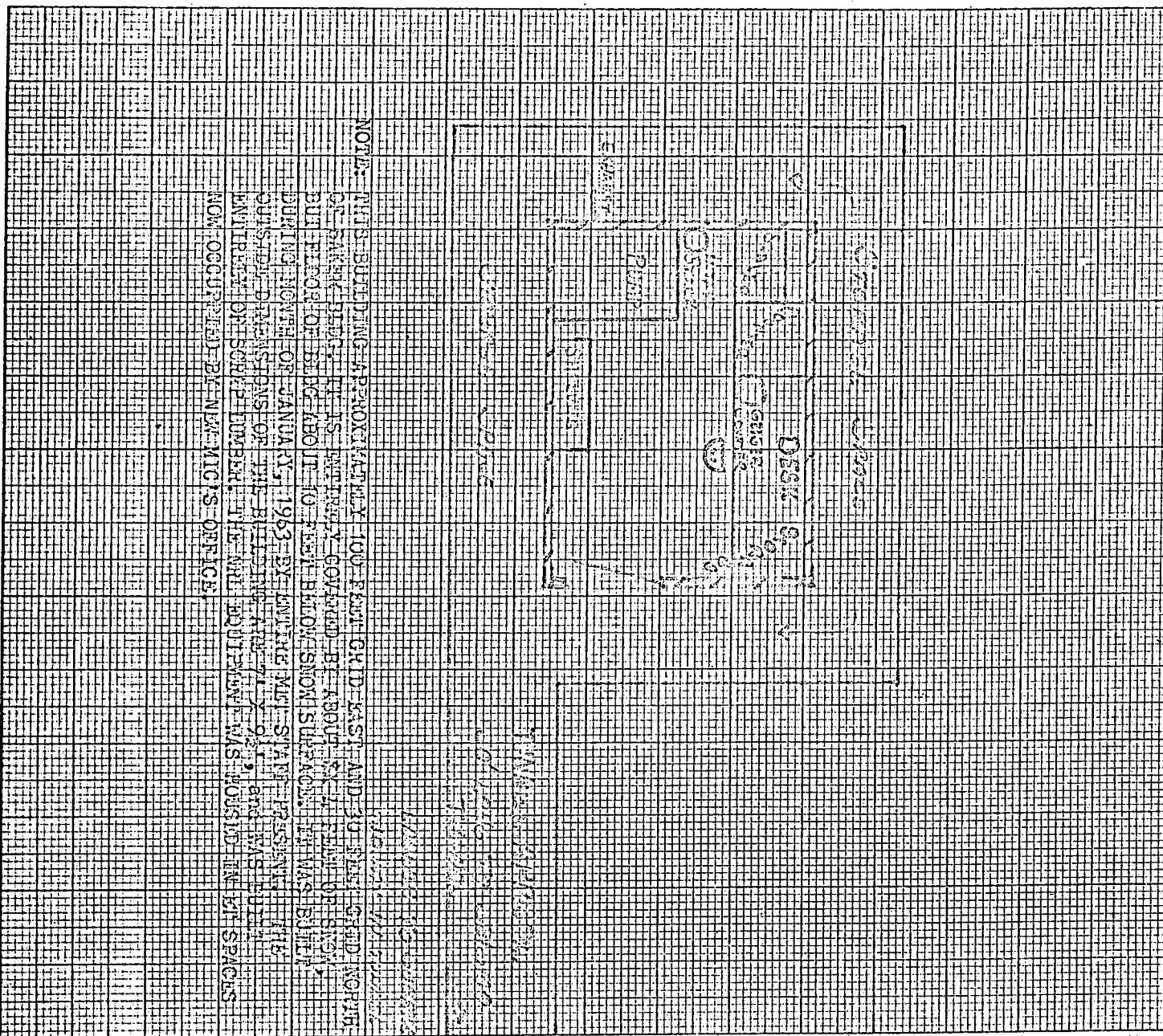
Station AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICA Effective Date AUGUST 1, 1963 RAO Approval

Prepared By (name, title, station) HARRY R. SPOHN, SUP. METECH Reason for Revision NEW BLDG ERECTED IN JANUARY, 1963

AMUNDSEN-SCOTT, SOUTH POLE, ANTARCTICA Use this form for scale diagram prepared as attachment to WB Form 500-10.

NHL HOUSING Scale $\frac{1}{2} \text{ in} = 1^{\circ}$

USCOMM-WB-DC 186

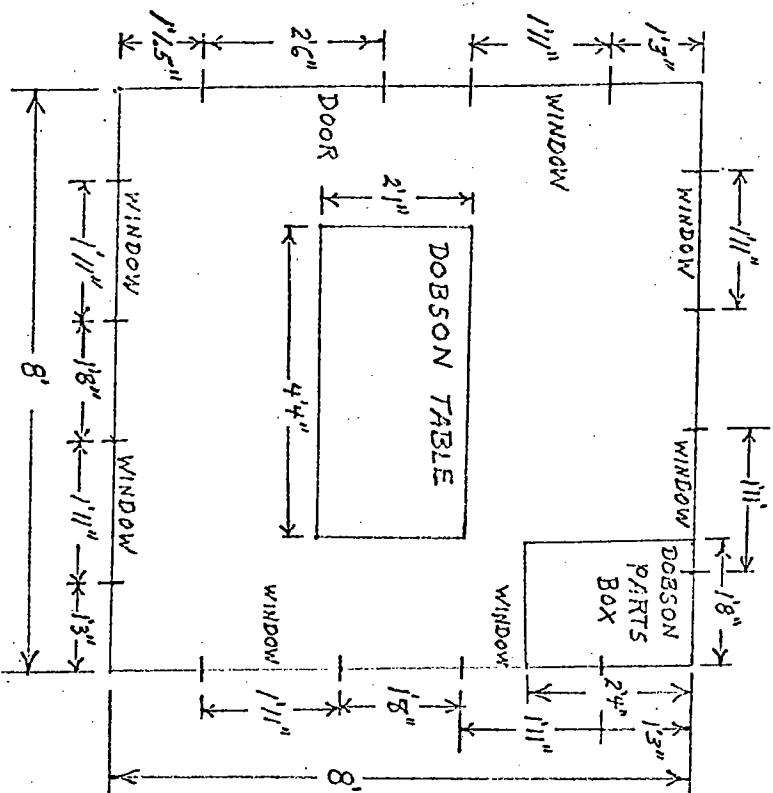


BEST AVAILABLE RECORD

DOBSON BUILDING INTERIOR SPECIFICATIONS

U. S. WEATHER BUREAU

SOUTH POLE STATION, ANTARCTICA



SCALE:

1 INCH = 12 $\frac{1}{2}$ FEET

NOTE: BUILDING LOCATION IS 130 FEET
GRID ESE OF THE INFLATION
SHELTER TOP EXIT AT THE EAST
END OF THE MAIN CAMP.

DRAWING BY:
K. H. JENSEN, USWB

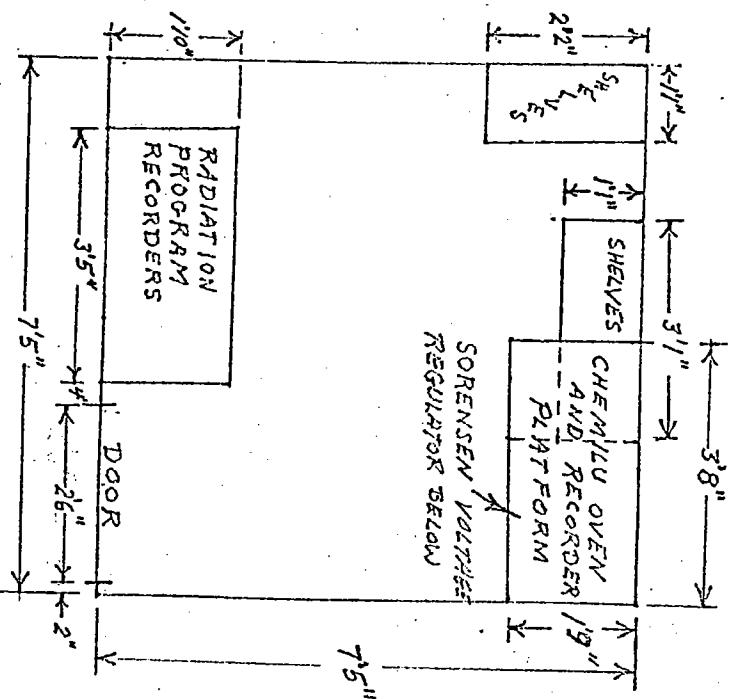
Aug 1, 1963

SOUTH POLE STATION, ANTARCTICA

HARRINGTON HOUSE

INTERIOR SPECIFICATIONS

U. S. WEATHER BUREAU



SCALE: 1 INCH = 2½ FEET

NOTE: THERE IS A 3½ FOOT PASSAGE

MAY AROUND THIS BUILDING AND
A 36X4 FOOT TUNNEL LEADING
INTO THE BUILDING FROM THE
OUTSIDE ENTRANCE. THE EXIT
IS LOCATED APPROXIMATELY
300 FEET GRID NORTH OF THE
INFLATION SHELTER TOP EXIT.

DRAWING BY: K.H. JENSEN USWB

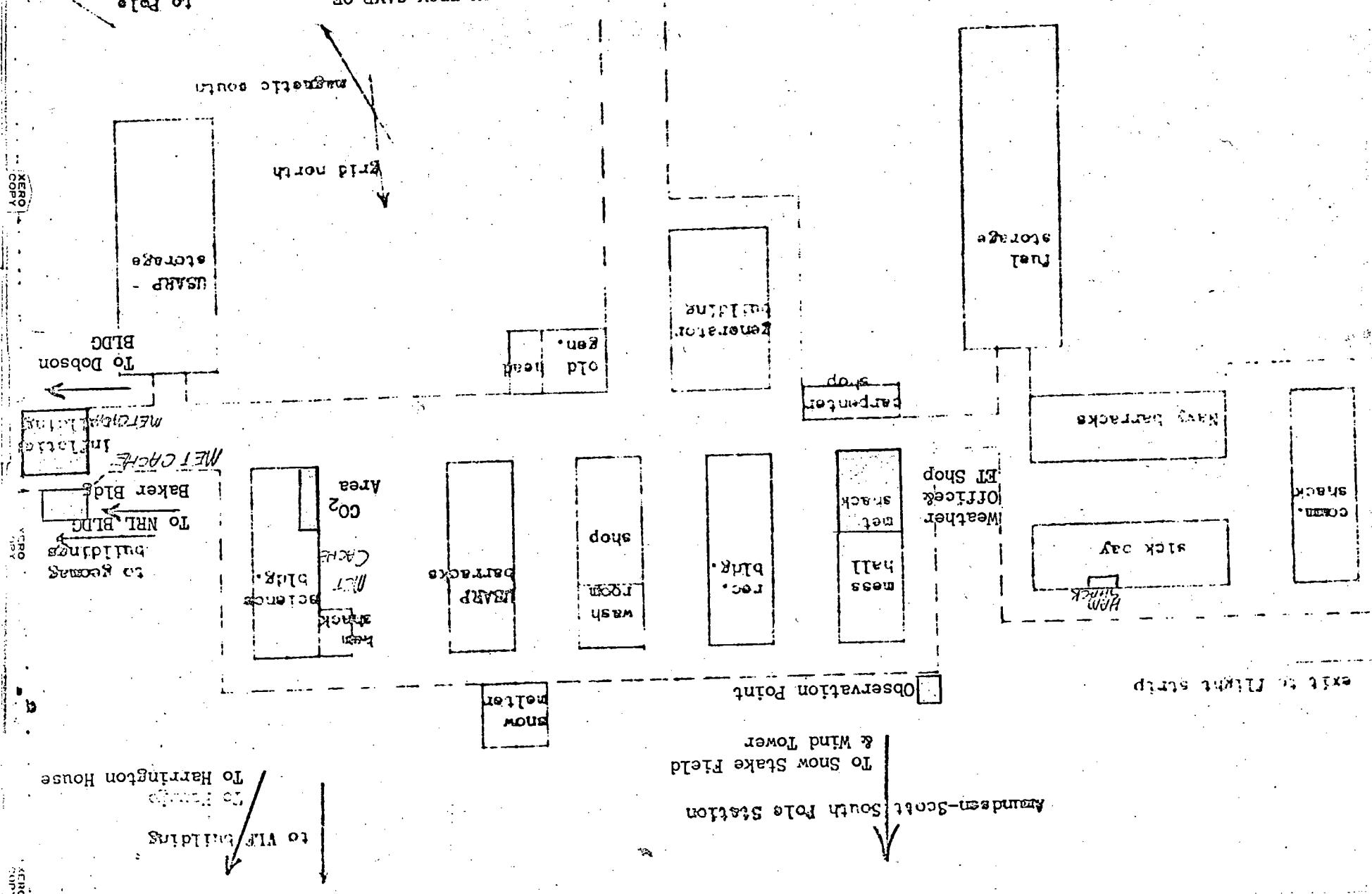
ECCLESIA

卷之三

Digitized by srujanika@gmail.com

METEOROLOGICAL SPACES IN HED. ARROWS POINT APPROXIMATE DIRECTION FROM CAMP OF OTHER METEOROLOGICAL FACILITIES

OTHER METEOROLOGICAL FACILITIES



I. STATION	NAME		STATE OR TERRITORY		NAME(S) OF AIRPORT (if applicable)		TYPE		
ANTARCTIC SCIENTIFIC EXPEDITION ANTARCTICA						NO			
II. RENDITION		SUPPLEMENT TO THE LAST COM- PLETE RENDI-		DATE OF LAST RENDITION		2. EFFECTIVE DATE		3. PURPOSE OF RENDITION OR SUPPLEMENT	
1. THIS IS A NEW RENDITION								CONTINUING	
a. TIME:		0000Z	<input checked="" type="checkbox"/>	0300Z	<input checked="" type="checkbox"/>	0600Z	<input checked="" type="checkbox"/>	0900Z	<input checked="" type="checkbox"/>
		1200Z	<input checked="" type="checkbox"/>	1500Z	<input checked="" type="checkbox"/>	1800Z	<input checked="" type="checkbox"/>	2100Z	<input checked="" type="checkbox"/>
OBSERVATIONS MARKED * ARE REGULARLY MADE BY:									
a. SPECIAL GROUPS									
b. OBSERVATIONS MARKED # CODED (from the Aviation Weather Reports) BY:									
c. REPORTS ENTERED ON CIRCUIT NO. WAVEN 14415 15 JUN 1963									
d. UNCHEDULED: ON CALL ONLY AS NEEDED BY:									
e. TIME (LST) RECORD OBSERVATIONS (when less than 24) 0600Z 15 JUN 1963									
f. ELEMENTS OBSERVED:									
g. CEILING AND VISUAL ELEMENTS		h. BROADCASTS:		i. DIRECT		j. CONTINUOUS AVIATION			
haze, visibility, precipitation, temperature, dewpoint, wind		radio, television, telephone, teletype, facsimile		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
i. ALTIMETER SETTING		j. REMARKS		k. 1. SUPERVISING STATION:		l. 2. REPORTS MONITORED BY:			
1012.5		none		none		<input checked="" type="checkbox"/>			
d. ADDITIVE DATA		APPROVED BY THUR. 15 JUN		APPROVED BY 1C, C.M.C.		APPROVED BY 988, SPP, PWS			
e. SPECIAL GROUPS		f. APPENDED TO REPORTS AT:		g. 3. NO. OF CERTIFICATE OBSERVERS:		h. 4. FEE (Each report)			
g. TRANSMISSION ON WEATHER CIRCUITS: U.S. NAVY 14415 NONE		h. APPENDED TO REPORTS AT: 0000Z 0300Z 0600Z 0900Z 1200Z 1500Z 1800Z 2100Z		i. 5. COOPERATOR (SAWRS, AC, SC)		j. DAY NIGHT SPECIAL OR IRREGULAR			
h. RECORD OBSERVATIONS TRANSMITTED IN: 3 hourly		i. 6. CEILING AND VISUAL ELEMENTS		j. 7. LOCAL FACILITIES		k. NO. OF USERS			
i. REGULAR SEQUENCE		j. CEILING AND VISUAL ELEMENTS		l. 8. MISCELLANEOUS (General)		m. NO.			
ON CIRCUIT(S) NO. 14415 BY: NAVY		k. CEILING AND VISUAL ELEMENTS		n. 1. LOCATION OF OFFICE		o. ADDRESS			
3. OBSERVATIONS RECORDED ON FORMS:		l. CEILING AND VISUAL ELEMENTS		o. U.S. NATIONAL BUREAU OF METEOROLOGY, INC.		p. POLAR OPERATIONS PROJECT			
WBAN 10 IFAN 14415		m. CEILING AND VISUAL ELEMENTS		q. 2. MAILING ADDRESS		r. 3. ANNUAL EXPENDITURES FOR CONTINUING SERVICES (ITEMIZED)			
0000Z 0600Z 1200Z 1800Z		n. CEILING AND VISUAL ELEMENTS		s. none		t. 4. STORM WARNINGS DISPLAYED			
V. OTHER OBSERVATIONS		o. CEILING AND VISUAL ELEMENTS		u. 4. STORM WARNINGS DISPLAYED		v. YES NO			
CLIMATOLOGICAL		FROZEN GROUND LAYER	SOIL TEMPERATURE	SUNSHINE DURATION	OTHER (Specify)				
EVAPORATION		ICE THICKNESS	RADIATION	SURFACE					
FIRE-WEATHER		RADAR	SOIL MOISTURE	CONDUCTIVITY					
FROST-FROST		RIVER STAGE	WATER TEMP.						
IX. REMARKS ANTARCTIC CODE MANUAL USED IN CODING 3 AND 6 HOURLY REPORTS. SPECIALLY TAKEN DURING FLYING OPERATIONS WHEN CEILING 1000' OR LESS AND VISIBILITY 3 MILES OR LESS. DURING DARK PERIOD ONLY 00Z RS TAKEN. NAV TRANSITS ALL WEATHER MESSAGE TO NAF HUMMING SOUND VIA NAV OR CM.									
X. PREPARED BY		TITLE		SUPERVISION METEOROLOGICAL TECHNICIAN		DATE			
STATION		HARRY R. SPORN				AUG. 1, 1963			
BEST AVAILABLE COPY									

M E M O R A N D U M

To : CHIEF, Polar Operations Project,

U. S. Weather Bureau, Washington 25, D.C.

From : Harry H. Spohn, Supervisory Metech,

South Pole Station, Antarctica

(Through MIC) *C. H. Spohn Jr.*

Subject: Station Documentation

September 28, 1963

Reference: Weather Bureau Manual Volume III, Chapter E-10

Enclosed are the following forms for this Station -

Camp Layout diagram with Met. spaces in red color

Scale drawings of Met. spaces

Station History

Station Description & Instrumentation, sections 1 through 13

Current visibility marker chart

Station Information

Personnel

Dep. Direc.

Sci. Cntr. Adv.

Rele. Coord.

Digital Sys.

Personnel

Adm. Ops.

Data Mgmt.

Make

Data Red. *(C.A.S.)*

DVS

Syn. Clim. *Copies for entire radiation program discontinued 1/1/63*

Clim. Anal.

Clim. Info.

Climatology

Data Ver.

Briefly, the following changes occurred at this Station during 1962-63 which are reflected in the enclosed documents.....

Shallow thermohms, (-5, -10, -15, -25, -50 cm), readings discontinued 12/4/62 when wires accidentally cut by construction crew. Correct wire needed to put program back in operation not on hand.

Adm. Ops. *Make* *for entire radiation program discontinued 1/1/63*

Data Red. *(C.A.S.)* + *Frigerometer became inoperative 3/63 when transformer burned out during period of numerous camp power failures*

Pibal area in Heater Room adjacent to Inflation bldg was removed 3/63 to cut down on space heated by single Preway stove. There are no Pibal facilities at this time.

Rawinsonde program cut to scheduled UVZ daily upon departure summer support personnel 2/63. Beginning March 21, Radiometersondes flown every third day during Winter. Special flights were flown at 12Z during April for support of Byrd Station Trail= party and again September for Navy's Capetown-Mcmurdo Flight.

Ozoneondes would not calibrate properly so program terminated.

B&W Net Radiometer installed before onset of Winter to aid in cloud-detection during dark period.

Visibility chart shows location of VLF facilities installed 1/63 that serve as useful visibility guides in addition to sites that have previously been used.

Enclosures
File

Harry H. Spohn

STATION DESCRIPTION AND INSTRUMENTATION
(WEATHER OBSERVATIONS)Station (Name, State, Airport, if any)
South Pole StationType
WBC

Location (Name of building, street, etc.) -

Prepared for close of: (Month and year) 31 December 1965

Latitude: 90° South	Longitude: - 0°	Hours to convert to GCT 180 th mer.	Add -	Subtract 12	Local standard time (in use at land stations) 0900	X	Annual rendition	Reason for rendition (Check one or more)
Thickness of ice on water							Elevation	Relocation of instrument(s)
Frozen ground layer							Feet (MSL)	Date
River stage							Field (Ha)	
Climatological							Station (H _p)	
Evaporation							Barometer (Hz)	
Other (Specify) See attached sheet							Climatological Station (H _p)	

3. INSTRUMENTATION (Location and exposure)		Height above ground or sea (ft.)	From Location	Nearest obstruction	Distance and direction of obstruction to	Height of obstruction above instrument	Date commissioned
Instrument (X = in use, S = standby)	Type						
X Direct reading wind equipment	Aerovane	27	250N	Radome	250S		Dec. 57
X Wind recorder for direct reading equipment	Aerovane						Mar. 57
Maximum and minimum thermometers							
Psychrometer	Dew cell						
Hypsothermometer	Infrared hygrometer						
Telemeterograph	Telemeterograph						
X Remote reading thermometer	Aspirated Thermohm	250N					Dec. 57
X Subsurface Thermohm	Constantan	250N					Dec. 57
Birch rain gauge	Shielded						
Weighing rain gauge	Shielded						
Tipping bucket rain gauge	Shielded						
AMOS							
X Barograph 5 Day	Belfort	9186					Mar. 65
X Precision aneroid	Kollsman	9186					Jan. 57
X Altimeter setting indicator	Kollsman	9186					Jan. 57
Sunshine switch							
Triple register	Multiple recorder						
Solar radiation							
Pilot balloon							
X Rawinonde Radiosonde	GND = 1A	15					
No. of station barometers: 530	Sum of corrections = .009						Mar. 57
Instrument	Type	By (ft.)	Date commissioned	Type:	Owned by:		
Celiometer (1)				RADAR	Antenna size	Date comm.	
Celiometer (2)				—			
X Ceiling light	CNE100	NOT in use		Type:	River:		
Transmissometer (1)				RIVER GAGE	Flood stage	Elev. of zero of gage	Date comm.
Transmissometer (2)				—	ft.	ft.	

4. Remarks and description of station exposure (Continue on separate 8" x 10 1/2" sheet, if necessary)
GENTLE rolling snow surface with constantly changing low profile sastrugi. Snow drifts in the station complex. Prevailing surface winds from NNE. Direction based on Grid System Greenwich Meridian used as North.

Prepared by (Signature)

Charlie D. Mabe

Title

Supervisory Met. Tech

Station

AMUNDSEN-SCOTT, ANT.
SUPPLEMENTAL SHEET

Heights and depths of Thermohms surveyed 4 Dec. 1965
and reevaluated as follows, Hourly recordings.

Aspirated Thermohm

+ 38.3 Ft.
+23.8 Ft.
++ 6.5 Ft.

Subsurface Thermohm

- 7.3 Ft.
- 8.9 Ft.
- 10.5 Ft.

Inflation Shelter -

New above surface, inflation constructed Feb. 1965. New inflation complex placed in exact location of old below surface facility

No change in location.

ELEVATION ABOVE MEAN SEA LEVEL												ELEVATION ABOVE SNOW SURFACE																	
(a) NUMBER OF STATION												(b) TYPE OF STATION																	
NUMBER OF STATION						AT THIS LOCATION						ARLINE DISTANCE AND DIRECTION FROM PREVIOUS LOCATION						LATITUDE LONGITUDE						GROUNDS ASSIGNMENT ACTUAL BAR-METER ($\frac{H}{2}$)					
(c) ELEVATION ABOVE MEAN SEA LEVEL												(d) ELEVATION ABOVE SNOW SURFACE																	
(e) (f)												(g) (h)																	
(i) (j)												(k) (l)																	
(m) (n)												(o) (p) (q) (r) (s) (t) (u)																	
(WIND INSTRUMENTS) EXTRME-PSY-TELEPSY-CHROM-ETER-TRIPING RAIN GADES 8 INCH												(REASON FOR MOVE, CHANGES IN OBSERVATION PROGRAMS, EFFECTS OF BUILDINGS OR TERRAIN, ETC.)																	
(l) * NONE NONE NONE												(m) * Thermometers Only																	
(n) Heights survey 4 Dec 1965.												(o) Remarks																	

RENDITION: () Original; (X) Supplement No. STATION AMUNDSEN-SOFT COUNTRY SOUTH POLE STATE ANTARCTICA INDEX NUMBER 89009 DATE PREPARED 31 Dec. 1965

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU STATION HISTORY

NUMBER	ELEVATION ABOVE GROUND											(a) (1) (m) (n) (o) (p) (q) (r) (s) (t) (u)
	WIND INSTRUMENTS	EXTREME-PSY-TELEPSY	CHROM-ETERS	CHROM-ETERS	TIPPING BUCKET	WEIGHING BAR.	RAIN GAUGES	8 INCH	(Reason for move, changes in observation programs, effects of buildings or terrain, etc.)			
1a	33								Barometer raised from 27.5 feet to 33.75 feet due to change in surface from drifting snow.			
1b									Wooden plank inserted into floor and frozen beneath surface under floor independent of building movement.			

NUMBER	ELEVATION ABOVE GROUND											(a) (1) (m) (n) (o) (p) (q) (r) (s) (t) (u)
	WIND INSTRUMENTS	EXTREME-PSY-TELEPSY	CHROM-ETERS	CHROM-ETERS	TIPPING BUCKET	WEIGHING BAR.	RAIN GAUGES	8 INCH	(Reason for move, changes in observation programs, effects of buildings or terrain, etc.)			

NUMBER	ELEVATION ABOVE MEAN SEA LEVEL											(a) (1) (m) (n) (o) (p) (q) (r) (s) (t) (u)	
	LOCATION	LOCATION	AT THIS LOCATION	ARLIME DISTANCE AND DIRECTION FROM PREVIOUS LOCATION	LATITUDE	LONGITUDE	GROUNDS ASSIGNED STATION (H _P)	STATION (H _P) ACTUAL BAROMETER (H _A)	ELEVATION ABOVE MEAN SEA LEVEL	FROM	TO	PREVIOUS LOCATION	

RENDITION: () ORIGINATOR: (X) Supplement No. 12
 OFFICE PREPARING FORM AMUNDSEN-SOFT
 UNITED STATES DEPARTMENT OF COMMERCE
 WEATHER BUREAU
 XXXXX SOUTHERN POLAR EXPEDITION ANTARCTICA INDEX NUMBER 8909 PREPARED 1 December 1968
 STATION AMUNDSEN-SOFT (4-61)
 (WB Form 500-1)

STATION HISTORY

STATION DESCRIPTION AND INSTRUMENTATION
(WEATHER OBSERVATIONS)
AMUNDSEN-SCOTT
 Location (Name of building, street, etc.)

WBO

Latitude	90 ° 0 S	Longitude	°	Hours to convert to GCT	Add _____	Subtract _____	Local standard time
Local standard time (in use at land stations)			180 th met.	42			

Prepared for close of: (Month and year) **FEBRUARY, 1969**

Reason for rendition (Check one or more)

 1. TIME OF OBSERVATION (other than aviation, 3- and 6-hourlies, radar and upper-air)
 Thickness of ice on water
 Frozen ground layer
 River stage
 Climatological
 Evaporation
 Other (Specify)

 2. ELEVATION AND DATE ESTABLISHED
 Elevation
 New station
 Station relocation

Instrument (X = in use, S = standby)	Type	Height above sea (ft.)	Location	Nearest obstruction	Distance and direction of obstruc- tion to instrument	Height above station	Date commissioned
X Direct reading wind equipment	Aerovane	28	270 N	None		11	1/9/57
X Other wind equipment	Bendix-Frier					11	1/9/57
X Wind recorder for direct reading equipment						11	1/9/57
X Psychrometer	Dew cell					11	1/9/57
X Hygrometer	Infrared hygrometer					11	1/9/57
X Telepsychograph						11	1/9/57
X Thermograph	Thermograph					11	1/9/57
X Remote reading thermometer	Aspirated thermohmm	I&N 8	270 N	Snow melter	275 S	0	12/31/67
X 8-inch雨量器	Shielded					11	1/9/57
X Weighing rain gauge	Shielded					11	1/9/57
X Tipping bucket rain gauge	Shielded					11	1/9/57
X AMOS						11	1/9/57
X Barograph	4 Day	Belfort	9186			11	1/9/57
X Precision aneroid	Kollsman	11				11	1/9/57
X Altimeter setting indicator	Kollsman	11				11	1/9/57
X Sunshine Recorder	Campbell-Stokes 3	500 NNE	Harrington	20 S	21	8/15/59	3/27/64
X Triple register	Multiple recorder	4	500 NNE	Harrington	20 S	21	9/14/64
X Solar radiation	F.P.Pley&Csiro	0	overhead				
X Pilot balloon							
X Rawinsonde	Radiosonde	GMD-1A	15	overhead			1/8/68

No. of station barometer	49-64	Sum of corrections	± .005	Type:	Owned by:		
Instrument	Type	Baseline (ft.)	Date commissioned	RADAR	Wavelength	Antenna size	Date comm.
Ceilometer (1)				→			
Ceilometer (2)							
Ceiling light	#Lost sometime in 1966/1967			Type:	River:		
Transmissometer (1)				Flood stage	Elev. of zero of gage	Date conn.	
Transmissometer (2)				ft.	ft.		

4. Remarks and description of station, exposure (Continue on separate 8" x 10 1/2" sheet, if necessary) GMD-1A raised approx. 8 1/2' to avoid limiting angles caused by surrounding structures and drifting snow.

Prepared by (Signature)

John E. Mihelcic

Title

SMT

Station

ALL OTHER ENTRIES ON SUPPLEMENT 12 SAME.

STATION DESCRIPTION AND INSTRUMENTATION
(WEATHER OBSERVATIONS)

Station (Name, State, Airport, if any)		Type
Amundsen-Scott		wBO
South Pole Station		
Location (Name of building, street, etc.)		
Mess Hall/ WB Office		

1. TIME OF OBSERVATION (other than aviation, 3- and 6-hourlies, radar and upper-air)		Local standard time	Prepared for close of: (Month and year) 10/72
Latitude 90° 00'	Longitude —° —'	Hours to convert to GMT	Reason for rendition (Check one or more)
Local standard time (in use at land stations)	— th mer.	Add _____ Subtract _____	<input checked="" type="checkbox"/> Annual rendition <input checked="" type="checkbox"/> Relocation of instrument(s)

2. ELEVATION AND DATE ESTABLISHED			
Thickness of ice on water	Ground (elevation) Ice Cap	Feet (MSL) 9186*	Date 10/18/72
Frozen ground layer	Field (Ha.)	"	1/7/57
River stage	Station (H _p)	"	"
Climatological	Barometer (H _z)	"	"
Evaporation	Climatological Station (H _{p,c})	"	"

3. INSTRUMENTATION (Location and exposure)					
Instrument (X = in use, S = standby)	Type	Height above ground	Distance to obstruction	Height of obstruction above instrument	Date commissioned
X Direct reading wind equipment	Aerovane	271	2701 N	None	1/9/57
X Other wind equipment	Bendix-Friez				1/9/57
X Wind recorder for direct reading equipment	Kod 141-4				

4. Maximum and minimum thermometers					
Psychrometer	Dew cell				
X Hygrometer	Hygro-thermograph				

5. Telemetering					
Thermograph	Hermograph				
Remote reading thermometer					

6. Aspirated thermometer					
B-inch rangage	Shielded				
Weighing rangage	Shielded				
Tipping bucket rain gauge	Shielded				

7. AMOS					
X Barograph					
X Precision aneroid					
X Altimeter setting indicator					

8. Sunshine switch Recorder					
Solar radiation	Campbell-Stokes	51	7801 N Radiation Hut	50°S	61° 9/22/70

9. Pilot balloon					
X Rawinsonde	Radiosonde	GMD-1B	0	ovhd	
No. of station barometer	49-64	Sum of corrections	+ .005		

10. RADAR					
Instrument	Type	Baseline (ft.)	Date commissioned	Type:	Owned by:
Ceilometer (1)				Repeater location:	
Ceilometer (2)					
Ceiling light					
Transmissometer (1)					
Transmissometer (2)					
RVR Computer (1)					
RVR Computer (2)					

11. AUTOMATIC PICTURE TRANS.			
Transmitter	PICTURE	<input type="checkbox"/> Receiver	Type:
Transmitter	TRANS.	<input type="checkbox"/> Remote Redr.	
Transmitter		Removed from:	

12. RIVER GAGE	
Type:	River:
RIVER GAGE	Flood Stage ft.
	Elev. of zero of gage ft.

13. TIDE GAGE	
Type:	Recorder type:
(Recorders in WB Stns.)	Owned By:

4. Remarks and description of station exposure (Continue on separate 8" x 10½" sheet, if necessary)
Average height 180 - mile radius.

Gentle rolling snow surface with constantly changing low profile sustrugi. The snow depth increases approximately 6 inches per year. Prevailing wind is NNE at 13 mph (1957-71). Zero degree meridian is designated as north.

Prepared by (Signature): **Edward A. Jessup** Title: MIC Station: Amundsen-Scott

WS FORM A-1
SECTION I U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

STATION DESCRIPTION AND INSTRUMENTATION

(WEATHER OBSERVATIONS)

Place "X" in this column to indicate a change.				Station (Name, State, Airport, if any)	Type
				Amundsen Scott	WBO
				South Pole Station	
				Location (Name of building, street, etc.)	
				MESS Hall / Weather Bureau Office	
1. TIME OF OBSERVATION (other than aviation, 3- and 6-hours, radar and upper-air)				Prepared for close of: (Month and year)	10/73
Latitude <u>90</u> ° <u>00</u> 'S Longitude <u>0</u> ° <u>00</u> 'E				Reason for rendition (Check one or more)	
Local standard time (in use at land stations) <u>180</u> th mer. Add _____ Subtract <u>12 hrs.</u>				Annual rendition	<input checked="" type="checkbox"/> Relocation of instrument(s)
				Station relocation	<input checked="" type="checkbox"/> Change, or <input checked="" type="checkbox"/> Correction of data
				LST standard time	
Thickness of ice on water				Elevation	Feet (MSL)
Frozen ground layer				Snow/Ice Cap	9186*
River stage				Field (Ha.)	II
Climatological				Station (H _p)	II
Evaporation				Batometer (Hz)	II
Other (Specify)				Climatological Station (H _p c)	II
3. INSTRUMENTATION (Location and exposure)				Height above location	Date of obstruction instrument above present exposure
Instrument (X = in use, S = standby) (See Instrument Catalog)				Nearest obstruction to obstruction	Height of obstruction instrument above present exposure
4. Direct reading wind equipment				Distance and direction of obstruction from instrument	Date commissioned
Wind recorder for direct reading				261	1/09/57
Model 1h1 - h				2701 N	None
5. Maximum and minimum thermometers					
Psychrometer					
Hygrometer					
Teles psychrometer					
Thermograph					
Remote reading thermometer					
6. Aspirated Thermohm					
8-inch rainage					
Weighing rainage					
Tipping bucket range					
AMOS					
7. Barograph					
Precision aneroid					
X Altimeter setting indicator					
V Sunshine recorder					
Multiple recorder					
Solar radiation					
X Pilot balloon					
X Rawinsonde					
No. of station barometer <u>19.61</u> sum of corrections <u>+0.002</u>					
Instrument				Type:	Owned by:
Ceilometer (1)				RADAR	
Ceilometer (2)				Type: <input checked="" type="checkbox"/> Repeater location: <input checked="" type="checkbox"/>	
Ceiling light				AUTOMATIC PICTURE TRANS. → <input checked="" type="checkbox"/> Receiver <input type="checkbox"/> Remote Rcd.	
Transmissometer (1)				Type: <input checked="" type="checkbox"/> Remote Rcd.	
Transmissometer (2)				Removed from: <input checked="" type="checkbox"/> River: <input type="checkbox"/> Flood Stage	
RVR Computer (1)				Type: <input checked="" type="checkbox"/> River: <input type="checkbox"/> Elev. of zero of gage	
RVR Computer (2)				TIDE GAGE <input checked="" type="checkbox"/> Recorder type: <input type="checkbox"/> in WS Stas.	
				Type: <input checked="" type="checkbox"/> Owned By:	

4. Remarks and description of station exposure (Continue on separate 8" x 10½" sheet, if necessary)
- * Average height for a 100 mile radius.

Prepared by (Signature): Bruce D. Whetstone Title: MIC Station: Amundsen - Scott

WS FORM A-1 (9-70)

SUPERSEDES WB FORM 500-10, PAGE 1, WHICH MAY BE USED.

INSTRUMENTS - Page 1

Continuation of 4. : Remarks and description of station exposure

Station located on a gentle rolling snow surface with constantly changing low profile sastrugi. Snow drifts generally oriented NNE - SSW. Snow depth increases approximately six inches per year. Prevailing wind direction is NNE at 13 mph. The 0 degree meridian is designated as North.

STATION DESCRIPTION AND INSTRUMENTATION

Reason for rendition Annual, Change Effective date 10/31/73
 Change of items (Specify) Correction of items (Specify) Relocation of instruments (Specify and give distance and location from previous location)

ITA-Lab.C

Section 1A. AIR TEMPERATURE AND HUMIDITY MEASURING AND RECORDING EQUIPMENT

1. Shelters (Repeat data in items a through c for each shelter)
 a. Indicate for each type (large, medium, small, other) the direction and distance from office
 b. Height of floor (in whole feet) for each type
- | | | | | | | |
|-------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|--|
| Above roof | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Exposed snow | | | | | | |

1 ft.
 1. ft.

- c. Is shelter lighted? (Check one box for each type)

Yes No Yes No Yes No

d. Indicate instruments and shelter location or other location of each

(X) In use	Instrument Type	Large		Med.	Small	Other	Instrument Telethermometer	Large		Med.	Small	Other	
		Hygrohrometer	Type (WB Stock Number)	Dewcel hygrometer	only	Thermometers (or indicators)		Maximum	S	Minimum	Dry bulb	Wet bulb	Dew point
	Hygrograph												
	Psychrometer aspirated by:												
	Motor driven fan												
	Hand-driven fan												
	Whirling mechanism:												
	Hand-crank												
	Sling			S									
	e. Are maximum and minimum thermometers mounted on a separate post?												

2. Describe and give location of nearby objects which affect temperature and humidity values, e.g., building, chimneys, trees, pavement, evaporative coolers, steam vents, etc. For ground installations, indicate nature of surface material under and around shelter or support (sod, gravel, etc.) (If more space is needed, continue on reverse.)

Generally flat snow surface around instrument exposure area which is up wind from any obstruction or buildings.

Section II B - SOIL OR WATER TEMPERATURE MEASURING AND RECORDING EQUIPMENT

1. Method of measurement, type of indicator, recorder, etc. 2. Depth(s) at which temperature is measured (Indicate unit, e.g., cm, ft., in.)
 3. Describe surface of soil (type of soil and soil cover), drainage, direction and degree of slope, shade, etc., of plot. For water temperature, describe area where measurements are made. (If more space is needed, continue on reverse).

4. Temperature measured: Soil Water

WB FORM A-1 (7-69) (FORMERLY 500-10) (PRES. BY WBOM)	U.S. DEPARTMENT OF COMMERCE ESSA WEATHER BUREAU	REGIONAL HQ'S. APPROVAL	Station Amundsen Scott South Pole Station Prepared by (Name, title, station and date) Bruce D. Webster (MC) Amundsen Scott 10/31/73
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STATION DESCRIPTION AND INSTRUMENTATION

REASON FOR RENDITION	Annual, change Change of items (Specify)	Correction of items (Specify)	Effective date	10/31/73
Section III - CEILING MEASURING AND RECORDING EQUIPMENT				
1. Balloons (ceilings) (Check)				
<input type="checkbox"/> 10-Gram <input type="checkbox"/> 30-Gram				
2. Ceiling light <input checked="" type="checkbox"/> NO ceiling light in use				
a. Make XXXX				
b. Model or type				
c. Diameter (inches) Cover glass				
d. Cable Length (Feet)				
e. Lamp Volts				
f. Location (Distance and direction from office) Projector				
Observation Point				
g. Length of baseline (feet)				
h. Elevation of observation point (msl) ft.				
3. Cellometer				
a. Projector Make				
Elevation of trunions (msl) ft.				
Type of lamp				
Location with respect to office				
b. Detector Make				
Elevation of trunions (msl) ft.				
Baseline (ft.)				
Location with respect to office				
c. 2nd detector Make				
Fixed beam				
Rotating beam				
d. Recorder Make				
Fixed beam				
Rotating beam				
4. Attach drawing of location of separate accessory items such as control switches, relays, fuses, marking time switches, magnetic contactors, etc., and location of cable, conduit, etc. hidden in walls or under ground OR check box and ENTER date. (Not required if "As Built" drawings in RH.) <input type="checkbox"/> No change in previous drawings dated				
Section IV - VISIBILITY CHARTS AND EQUIPMENT				
1. Stations reporting visibility will submit with this page two visibility charts, Sections IV-A and IV-B showing all markers throughout the entire range of visible objects. Include the location of any control tower from which visibility observations are taken. (Use FMH #1, Chapter A6-3.2 for a guide.) <input checked="" type="checkbox"/> No change in Sections IV-A and IV-B dated				
OR check box and ENTER date. 10/31/71				
2. Transmissometer(s) Instrument Number Runway(s) Served System owned by RVR or RVV Baseline				
3. For WB owned equipment, attach drawings of location of separate accessory items and location of cable, conduit, etc. hidden in walls or underground. OR check box and ENTER date. <input type="checkbox"/> No change in previous drawings dated				

WB FORM A-1 (8-70)
 PREPARED BY
 W.B.O.M. A-11

U.S. DEPARTMENT OF COMMERCE
 WEATHER BUREAU

REGIONAL HQS. APPROVAL

Station
Amundsen Scott South Pole Station
 Prepared by (Name, title, station and date)
Bruce D. Webster (MTC)
Amundsen Scott 10/31/73

STATION DESCRIPTION AND INSTRUMENTATION

Change of items (Specify)	Reason for rendition	Annual, Change	Effective date	10/31/73
		Correction of items (Specify)	Relocation of instruments (Specify and give distance and location from previous location)	

V.-1 (b,c,d) V.-2 (b,d)

Section V - WIND MEASURING AND RECORDING EQUIPMENT (Submit data as follows for each installation under items 1 and 2)

1. Wind system (Direct reading)	a. Check which	b. Height of rotor above ground (Ft.)	c. Height of vane above ground(Ft.)
	<input type="checkbox"/> F420 <input checked="" type="checkbox"/> F431	snow 26	snow 26

d. Number and location of repeater indicators in system

One parallel recorder in galley

Number of magnetic amplifiers in system _____

e. Recorder (Check which)

F311 F312

Other (Specify) Bendix-Friez Aerovane

F315

Conductors

Chart No.
516993JB

f. Cable

Length (Ft.)

Gage

Conductors

7

g. Location of rotor and vane

On steel mast 270 ft. north of Weather Bureau Office

h. Owner of system, or components (Specify Weather Bureau, FAA, etc.)

NWS

i. Orientation check points

Object	Direction
--------	-----------

Object	Direction
--------	-----------

a. Anemometer (Check which)

F103 F102

Other (Specify)

Bendix-Friez Aerovane

b. Height of rotor above ground (Ft.)

Roof (Ft.)

snow 26

c. Wind vane (Check which)

F010 F011

Other (Specify)

Bendix-Friez Aerovane

snow 26

d. Height of vane above ground (Ft.)

Roof (Ft.)

snow 26

e. Indicator (Check which)

F221 F221A

Other (Specify) Bendix-Friez Aerovane Mod. 510083-1

f. Cable

Length (Ft.)

Gage

Conductors

7

g. Location of rotor and vane

On steel mast 270 ft. north of Weather Bureau Office

h. Owner of system, or components (Specify Weather Bureau, FAA, etc.)

NWS

i. Orientation check points

Object	Direction
--------	-----------

Object	Direction
--------	-----------

3. Attach drawing of location of cable or conduit connecting the sensing elements to the indicators, power source, etc., and the location of objects suspected of causing nonrepresentative speed or direction values OR check box and ENTER date. Italicized portion not required if 'As Built' drawings in RH.

1. SPIKE npt a switch	a. Type (Check which)	b. Location
	<input type="checkbox"/> Photoelectric <input checked="" type="checkbox"/> Other (Specify) C.F. Casella Glass Sphere	780 ft. NE WBO

2. Recorder	a. Make Campbell Stokes	b. Type Sunshine Recorder
-------------	-------------------------	---------------------------

REASON FOR RENDITION Annual		Effective date 10/31/73
Change of items (Specify)	Correction of items (Specify)	Relocation of instruments (Specify and give distance and location from previous location)

Section VII - PRECIPITATION MEASURING AND RECORDING EQUIPMENT

1. Eight-inch non-recording gage	a. Top of gage above ground (Ft.)	Roof (Ft.)	b. Shielded	<input type="checkbox"/> Yes	<input type="checkbox"/> No
2. Tipping-bucket gage	a. Make	b. Top of gage above ground (Ft.)	Roof (Ft.)	c. Shielded	<input type="checkbox"/> Yes
3. Weighing-type recording gage	a. Make	b. Model	c. Traverse	<input type="checkbox"/> Single	<input type="checkbox"/> Double

d. Capacity (inches) e. Gears (hours)

2.4 6 9 12 6 12 24 f. Chart No.

g. Top of gage above ground (Ft.) h. Shielded

Yes No

4. Describe the installation of the gages telling location and height of local obstructions which might affect the catch (i.e., trees, buildings, overhead wires, etc.), and how the gages are anchored to the surface

Measurement of snowfall by gages is not attempted due to the difficulty in determining whether the snow is freshly fallen or was carried in by the wind.

5. List special equipment used such as towers, shields, snow gages, etc.

No change in previous drawings and attachments dated 10/18/72

6. Weighing-type scale

(for water equivalent of snow)

Yes No

Make

7. Attach drawings of wiring for the tipping-bucket gage, OR check box and ENTER date

(Not required if "As Built" drawings in RH)

No change in previous drawings dated

Section VIII - MULTIPLE REGISTERS AND TOTALIZING INDICATORS

1.a. Register (Check type)	<input type="checkbox"/> F315	<input type="checkbox"/> M003	b. Totalizer panel
	<input type="checkbox"/> Triple register	<input type="checkbox"/> Other (Specify)	<input type="checkbox"/> A230 <input type="checkbox"/> A231 <input type="checkbox"/> A232 <input type="checkbox"/> Other (Specify)
2. Elements recorded (Check each)			

Wind speed Wind direction Other (Specify)

Rainfall Sunshine

3. Elements totaled

(Check one or more)

None Sunshine Wind speed Rainfall

Power supply (Check one)

Yes No

4. Storage battery

a. Make

b. Type/model

5. Battery charger

a. Make

b. Type/model

6. Selenium-rectifier-type power supply (Check one)

Yes No

7. Attach drawing of wiring for multiple register and totalizing indicators, OR check box and ENTER date. (Not required if "As Built" drawings in RH)

No change in previous drawings dated

STATION DESCRIPTION AND INSTRUMENTATION

Reason for rendition	Annual, Change	Effective date
Change of items (Specify)	Correction of items (Specify)	10/31/73
Relocation of instruments (Specify and give distance and location from previous location)		

Section IX - PRESSURE MEASURING EQUIPMENT. All data on this page shall apply to the current location of instruments. (See the addendum to Circular N or Manual of Barometry for definitions and instructions relative to changes in barometer elevations.)

Part A - ELEVATION DATA PERTAINING TO THE MERCURIAL STATION BAROMETER

Description of data	Elevation in feet and hundredths	Authority (Agency or title of Surveyor)	Form of publication giving survey information	Date of form (or survey)
1. Elevation of reference plane above mean sea level				
2. Elevation of fixed point above mean sea level				
3. Elevation of ivory (or zero) point of barometer, H_2 , above mean sea level	9186.35	MIC		1/57
4. Describe and identify fixed point				

5. Describe and identify reference plane

Part B - MERCURIAL BAROMETER DATA

Barometer data	Station barometer	Extra barometer	Barometer corrections <input checked="" type="checkbox"/> In., <input type="checkbox"/> Mb.	Station barometer	Extra barometer
1. Barometer serial number	49-64		5. For scale errors and capillarity	4.005	
2. Scale range	<input checked="" type="checkbox"/> In. <input type="checkbox"/> Mb.	From To	6. For gravity	See reverse side	
<input checked="" type="checkbox"/> In. <input type="checkbox"/> Mb.	17.8	32.7	7. Removal correction (reduction from H_2 to H_p)	.000	
3. Cistern type (adjustable or fixed)	adjust		8. Residual correction	none	
4. Elevation of ivory (or zero) point, ft. (MSL)	9186		9. Sum of above corrections	+.005	
11. Latitude ° ° °	90 0 00	N	10. Variable removal correction used <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

Part C - ANEROID BAROMETER

1. Type

In.
 Mb.

From
To

640
920

12. Assigned station elevation H_p

Feet
Kollsman

9186

13. Field elevation H_a

Feet
Porth D - BAROGRAPH

9186

14. Climatological station elev. H_{pc}

Feet
Belford

9186

15. Normal annual temperature... (1957-1972).....-57 °F

Feet
Rubber pad

20.12

16. Mean annual pressure at barometer elevation, H_2 , (enter to nearest 0.01 in. H_g)..... 20.12

Feet
Rubber pad

9186

4. Type of mounting (rigid, felt, rubber, springs, etc.)

1/4
 1/2
 1
 4
 7

5. Elevation above mean sea level (to the nearest whole foot) 9186

Notes regarding revision of elevation records (Give original data, reason and authority for revision, and date of revisions)

Mr. Howlin Flowers, the MC in 1957, stated in the first station history that the station elevation of 9186 feet was a conversion from a ~~XXX~~ calculated value of 2800 meters. Because the land area this far inland has not been surveyed, the elevation was undoubtedly calculated by averaging altimeter readings.

Part B. #6 For gravity: Gravity correction varies with observed pressure:
~~KNNNNNN~~ (0.001683551 x barometer reading)

STATION DESCRIPTION AND INSTRUMENTATION

REASON FOR RENDITION Annual, Change
 CHANGE OF ITEMS (Specify) CORRECTION OF ITEMS (Specify)

EFFECTIVE DATE 10/31/73
 RELOCATION OF INSTRUMENTS (Specify and give distance and location from previous location)

X-1(e) X-2 (a,b,e)

Section X-WINDS ALOFT EQUIPMENT AND HISTORY

A. INFILATION		B. LOCATION (Check which)		C. LOCATION WITH RESPECT TO OFFICE AND RELEASE POINT	
1. BALLOON	INFILATION	ROOM FOR SEP. BLDG.	OFFICE BLDG.	OTHER (Specify)	
(Facilities)	<input type="checkbox"/> PILOT <input checked="" type="checkbox"/> RAOB	<input checked="" type="checkbox"/> X			225 ft. east of WBG. Inflation building is point of release.
D. INSIDE DIMENSIONS		HEIGHT FEET	WIDTH INCHES	LENGTH FEET	E. HEATED
E. PILOT	<input type="checkbox"/> PILOT <input checked="" type="checkbox"/> RAOB	15	0	14	<input checked="" type="checkbox"/> Internal furnace
F. BALLOON EXIT(S)	NUMBER 1	14	6	12	
	NUMBER 2				

2. BALLOON
 A. HELIUM HYDROGEN OTHER (Describe) _____

B. BOTTLED: YES NO

C. GENERATED: YES NO

(Gas) (1) NUMBER OF CYLINDERS USED PER YEAR 150 (1) NUMBER OF GENERATORS *See _____

(2) NO. CYLL. STORED AT ONE TIME 150 (2) TYPE _____ below

(3) SUPPLIER U.S. Navy (3) CHEMICALS USED: _____

(4) COST PER CYL. (Incl. trans.) Sub sfc. storage (4) AMOUNT OF CHEMICALS USED PER YEAR:

(5) CYL. STORAGE (Location & brief description): Sub sfc. storage constructed Dec. 1972, extends 160 degrees from inflation Bldg. Dimensions: 50' x 12', cyl. capacity appr. 400 to 450

* Grill generator partially dismantled/1973

D. PIPE LINE: YES NO HIGH PRESSURE LOW PRESSURE

E. CONDITIONING FACILITIES AVAILABLE: ELECTRIC "HOT PACK" CONDITIONER OTHER (Describe): Diesel fuel oil treatment during dark period.

3. DESCRIBE ANY SPECIAL OR UNUSUAL FEATURES OF THE WINDS ALOFT PROGRAM

4. Historical winds aloft observation record (from first location, or observational change, immediately prior to January 1, 1950)
 Enter "P" for pibal, "RW", for rawin, and "RB" for rabal. If more than one type is made at a scheduled time, indicate pre-dominant type. Once a complete history of observations has been recorded on this form, only the last entry of the previous form and subsequent changes need to be recorded preceded by this note: For previous record see form with effective date 10/18/72

PLACE OF OBSERVATION (Name of airport, buildings, etc.)	PERIOD OF OBSERVATIONS (Dates)	NO. OF OBS.	TIMES (GMT) AND TYPES OF OBSERVATIONS						
	FROM	TO	DAILY	TIME	TYPE	TIME	TYPE	TIME	TYPE
Mess Building/ Weather Bureau Office	2/16/72	10/1/72	For previous record see form with effective date 10/18/72	1	00	RW	1200	RW	
	10/02/73	02/16/73		2	00	RW	1200	RW	
	02/16/73	08/28/73		1	00	RW	1200	RW	
	08/28/73	09/05/73		2	00	RW	1200	RW	
	09/05/73	10/31/73		1	00	RW	1200	RW	
	10/04/73	10/31/73		2	00	RW	1200	RW	

Station
 Amundsen Scott South Pole Station
 REGIONAL HQS. APPROVAL
 Prepared by (Name, title, station and date)
 Bruce D. Webster (MIC)
 Amundsen Scott 10/31/73

Effective date
 10/31/73

Relocation of instruments (Specify and give distance and location from previous location)

Section X - WINDS ALLOFT EQUIPMENT AND HISTORY (Continued)

3. Pilot balloon equipment		Make	Sep. wide angle	Support		
a. Theodo-	lite(s)		Yes	No	Adjust., anchored	Tripod
(Complete these data for each)		X				X
(1)	Warren-Knight					
(2)						
b. Theodo-		Location with respect to office building	On tower, building, etc. (Specify)			
lite		(1) Above Weather Bureau Office	On SE (grid) corner of radome platform			
platform(s)		(2)				
c. Identity check point(s)		Wind break	Height of sides (feet)	Type of construction		
Site b (1) Top of flag pole at site of ceremonial		Yes		Elevation of floor (meters and tenths)	Above ground	Above mean sea level
Site b (2) West(grid) side on top of wind mast		No		0.0	SNOW	
		(1)		0.0		2803.7
		(2)				
d. Rawin-		Dome	Describe	Elevation angle	Azimuth angle	
sonde				0.2	331.0	o
equipment						
e. Tracking equipment						
(1) GMD-1						
(2) SCR-658						
f. Location and distance from office building						
APPR. 30 ft. above floor of Weather Office						
g. Identity check point(s)						
<u>Target antenna on top of inflation bldg.</u>						
h. Type of shelter for tracking equipment and observer						
Fiberglass radome						
i. Is forced ventilation used?			i. Describe ventilation system	f. Is radome insulated?	g. Method of heating shelter heating lamp and residual heat from WBO below.	
		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			
5. Inter-		Check which				
communi-		<input type="checkbox"/> Rad recorder to theodolite platform	<input type="checkbox"/> Theodolite platform to rawinsonde equipment			
cation		<input type="checkbox"/> Rad recorder to rawinsonde equipment	<input type="checkbox"/> Other (Explain)			
facilities		<input type="checkbox"/> Rad recorder to instrument shelter				
		<input checked="" type="checkbox"/> Rad recorder to release area				

U.S. DEPARTMENT OF COMMERCE (10-70) (PRES. BY WSOM A-11)		STATION NOAA NATIONAL WEATHER SERVICE					
STATION DESCRIPTION AND INSTRUMENTATION							
CHANGE OF ITEMS (Specify) XI.-1 (a,b)-2(c) -F& 3(e) & (f)	CORRECTION OF ITEMS (Specify) XI.-4 (all)	REGIONAL HQS. APPROVAL	Amundsen Scott South Pole Station PREPARED BY (Name, title, station and date) Bruce D. Webster (MC) Amundsen Scott 10/31/73				
SECTION XI - RADIOSONDE EQUIPMENT AND HISTORY							
1. RECORDER		REASON FOR RENDITION Annual change					
a. Make L & N	b. Type J-105	EFFECTIVE DATE: 10/31/73					
2. BASELINE CHECK BOX		RELOCATION OF INSTRUMENTS (Specify and give distance and location from previous location)					
a. Location with respect to recorder Six ft. on opposite wall.	b. Internal power supply <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	c. Type J202B Type III					
3. ELEVATIONS		a. Source used to obtain raob surface temperatures: <input type="checkbox"/> Telem psychrometer <input checked="" type="checkbox"/> Other (Specify) Aspirated thermohm to L & N Recorder					
		GPM & TENTHS	METERS & TENTHS				
		2800.0					
b. Elevation of station for raob purposes (above mean sea level):		BASED ON (Check appropriate box):					
(1) Intake of hygrothermometer or telem psychrometer. or floor of instrument shelter, or		<input type="checkbox"/>					
(2) Release point established for station (floor or raob inflation shelter plus 4 feet (1.2 meter))		<input checked="" type="checkbox"/>					
c. Station elevation (H _p)		2800.0					
d. Elevation of table top where pressure-contact settings are made (above mean sea level)		2800.0					
e. Correction applied to station pressure to obtain pressure-contact setting		-0.8					
f. Correction for difference between station pressure and surface pressure for raob purposes		-0.8					
4. EMERGENCY POWER		a. Check one <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	b. Type <input type="checkbox"/> Gasoline <input checked="" type="checkbox"/> Diesel	c. Owned by	d. Output (Kw) available to Weather Bureau	e. Phase <input type="checkbox"/> Single <input checked="" type="checkbox"/> 3-Phase	f. Voltage — — — — —
5. Describe unusual aspects of installation, such as use of preamplifiers, remote control unit, time-share or on-station computer use, etc.							
CMD-1B system is connected to a Honeywell Mini-computer.							
L & N J-105 recorder is used for the radiometersonde program conducted by NOAA ERL.							
6. Attached drawing showing the wiring between the power supply, tracking set, radiosonde recorder and related units. Show location of hidden cables, conduit, junction boxes, etc., OR check box and ENTER date. Not required if 'As Built' drawings in RH.		<input type="checkbox"/> See 'As Built' <input checked="" type="checkbox"/> No change in previous drawings dated 10/01/61					
7. Historical radiosonde observation record (from first location, or observational change, immediately prior to Jan. 1, 1950). Once a complete history of observations has been recorded on this form, only the last entry of the previous form and subsequent changes need be recorded preceded by this note. For previous record see form, effective date							
PLACE OF OBSERVATION (Name of airport, building, etc.)		PERIOD OF OBSERVATION(Dates)		NO. OF OBS. TIME (GMT) OF OBSERVATIONS			
		FROM	THRU	DAILY	TIME	TIME	TIME
Mess Bldg./ Weather Bureau Office		02/16/72	10/01/72	1	00		
		10/02/72	02/16/73	2	00	12	
		02/16/73	08/28/73	1	00		
		08/28/73	09/05/73	2	00	12	
		09/05/73	10/03/73	1	00		
		10/04/73	10/31/73	2	00	12	

STATION DESCRIPTION AND INSTRUMENTATION

CHANGE OF ITEMS (Specify) ANNUAL Change
 CORRECTION OF ITEMS (Specify) RELOCATION OF INSTRUMENTS (Specify and give distance and direction from previous location)

SECTION XIII - RADAR EQUIPMENT

1A. TYPE RADAR NONE Available

B. WAVE LENGTH (cm) C. NETWORK
 LOCAL USE

2. ANTENNA A. LATITUDE B. LONGITUDE C. DISTANCE FROM OFFICE (cable run)

3. REPEATER INDICATORS A. TYPE(S)
 B. LOCATION

4. REMOTING A. Slo-scan
 Microwave
 Dial-in

TRANSMITTER
 REMOTE INDICATORS

a. Type (model) _____ a. Type _____

b. Owned by _____ b. Owned by _____

c. Maint'd. by _____ c. Location _____

5. CAMERA A. TYPE(S) B. USE C. MOUNTED ON (Check one)

PERMANENT

REMOVABLE

6. AUXILIARY POWER SUPPLY A. TYPE B. CAPACITY C. OWNER AND LOCATION

PERMANENT

REMOVABLE

7. On polar coordinate paper (WB Form 610-2c) plot the azimuth angles and give the elevation angles of all objects within 100 nautical miles of the radar antenna site which intercept the center of the radar beam when the beam is projected horizontally at 0.0 antenna tilt.

Use TA-610-0-1 to determine which objects intercept the center of the beam. Mark orientation checkpoint and describe, i.e., radio tower, building, etc. Attach diagram to this page OR check box and ENTER date:

NO CHANGE IN PREVIOUS DIAGRAMS DATED _____.

8. DESCRIBE COMMUNICATION FACILITIES AND UNUSUAL FEATURES OF INSTALLATION OR OF OPERATING AND REPORTING PROCEDURES.

9. HISTORICAL RADAR OBSERVATION RECORD (From date of first observation)

List any prolonged outages and outages and dates. Show modifications and changes in models, etc.

PLACE OF OBSERVATION (Name, airport, building, etc.)	PERIOD OF OBSERVATIONS (dates)		MODEL OR TYPE	ANTENNA SIZE (Feet)	ANTENNA HEIGHT ABOVE GROUND (Feet) (Measured to center of parabolic reflector)
	FROM	TO			

WS FORM A-3 (10-70) Page 1 (Formerly WB Form 500-3)	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION U.S. DEPARTMENT OF COMMERCE NATIONAL WEATHER SERVICE	EFFECTIVE DATE OF LAST RENDITION 10/18/72	EFFECTIVE DATE 10/31/73
Pres. by WBO M-A-11	STATION INFORMATION		
ANNUAL *- CHANGE			

I. STATION NAME Amundsen Scott/ South Pole		SKYBX	TYPE																		
		Antarctica	WBO																		
II. SURFACE OBSERVATION - 1. Synoptic (Code 3 - and 6 - Hourly)																					
<table border="1"> <tr> <td>a. TIME (GMT)</td> <td>0000</td> <td>X</td> <td>0300</td> <td>*</td> <td>0600</td> <td>X</td> <td>0900</td> <td>*</td> </tr> <tr> <td></td> <td>1200</td> <td>X</td> <td>1500</td> <td>*</td> <td>1800</td> <td>X</td> <td>2100</td> <td>*</td> </tr> </table>				a. TIME (GMT)	0000	X	0300	*	0600	X	0900	*		1200	X	1500	*	1800	X	2100	*
a. TIME (GMT)	0000	X	0300	*	0600	X	0900	*													
	1200	X	1500	*	1800	X	2100	*													
OBSERVATIONS MARKED * ARE REGULARLY MADE BY: NWS Observers																					
* Only during Aircraft Operations <small>OBSERVATIONS MARKED # CODED (From the Aviation Weather Reports) BY:</small>																					
b. SPECIAL GROUPS See Antarctic Code Manual																					
a. TIME (GMT) Same as T1 & T2. at b. Aviation																					
c. Reports entered on circuit No.																					
d. SCHEDULED RECORD 24 DAILY LESS THAN 24 DAILY NOT DAILY <small>*Only during Aircraft Operations</small> <small>#CODED FROM 3- AND 6-HOURLY REPORTS BY:</small>																					
e. LOCAL TIME EST * GMT DURING Aircraft Operations <small>TIME STAND. BST OTHER (Specify)</small>																					
f. OBSERVATIONS MADE * TAKEN BY 2 NWS 180th Meridian OBSEVERS																					
g. ELEMENTS OBSERVED: CEILING AND VISUAL ELEMENTS SEXTEMP PRESSURE (Stand) TEMP DEPT WIND RVR ALTIMETER Y RWY VSBY X REMARKS X																					
h. CODED REMARKS & SP. DATA GROUPS APPENDED TO REPORTS AT: <small>AT</small>																					
i. RECORD OBSERVATIONS REGULAR SEQUENCE COLLECTION NONE X <small>ON CIRCUIT(S) NO.</small>																					
j. SURFACE OBSERVATIONS RECORDED ON FORMS MF1-10A MF1-10B X <small>REMARKS</small>																					
k. MF1-10C 610- B-15 B-16 612- E-15																					
l. F-10 X F-6 B-21 OTHER																					
m. UPPER-AIR OBSERVATIONS EW : R for RAOF, W for RAWIN, RW for Rawin- <small>(GMT)</small> sonde, P for Polar, and LL for Low-level																					
n. ELEV. FOR RADAR 0000 X 0600 1200 * 1800 [IRREG]																					
o. PURPOSES (GPM) 0000 X 0600 1200 * 1800 [IRREG]																					
p. IV. OTHER OBSERVATIONS (Indicate number scheduled per day when applicable)																					
q. CLIMATOLOGICAL X FRUIT-FROST RADAR WATER TEMPERATURE <small>STATE GROUND LAY. RIVER STAGE SUNSHINE DURATION</small>																					
r. SWELL GAMMA RAY SOL. TEMP. <small>EVAPORATION ICE THICKNESS SOLARRAD.</small>																					
s. FIRE-WEATHER NESS SOIL MOISTURE <small>OZONE</small>																					
t. STORM WARNINGS DISPLAYED: DAY & NIGHT DAY ONLY																					
u. PREPARED BY (Signature) Bruce J. Wilkster Title M/C <small>STATION</small>																					

INSTRUMENTATION		STATION DESCRIPTION AND INSTRUMENTATION		INSTRUMENTATION	
Place "N" in this column to indicate changes		(WEATHER OBSERVATIONS)			
Latitude 90° South		Longitude 180° E. long.		Altitude 1800 ft. above sea level	
Local Standard Time (in hours)		Miles to nearest town None		Elevation above sea level 1800 ft.	
Time of observation (other than elevation, P. and R. required, note and superscript)		Add 12 hours		Exposure South	
Temperature		Subtract 12 hours		Annual variation X	
Soil temperature				Reason for variation (check one or more)	
Thickness of ice at site				Retention of instruments	
Frozen ground site				New station	
River site				Station relocation	
Climatological exposure				Change in	
Other specific				Collection of data	
INSTRUMENTATION (Location and dimensions)				Elevation and date established	
Instrument (X in use, S. standby)		Height 100 ft. above ground		Post (inch) 9340.6 ft.	
Dense reading wind vane		Width 20 ft.		Date 1 Dec 74	
Other wind equipment		Length Aerodata		Field (in) n	
Wind recording direct reading		Depth 30 ft.		Station (ft.) n	
Wind vane		Scale Attach. None		Barometric (ft.) n	
Thermograph		Model Gandix - Fritz		Climatological station (ft.) n	
Mercury and minimum thermometer				Height n	
Psychrometer				Diameter n	
Hygrometer				Holder n	
Tachymeter				Type above instrument	
Tachymeter				Position	
Radar tracking				18 Dec 74	
Radar tracking thermometer				18 Dec 74	
Anemometer				18 Dec 74	
Anemometer				18 Dec 74	
Bimetal therm.		LEN 100 Chan Cu		18 Dec 74	
Bimetal therm.		6° Sac. Attach. None		18 Dec 74	
Weighing balance				18 Dec 74	
Teflon bucket				18 Dec 74	
ANOS				18 Dec 74	
Barograph				18 Dec 74	
Precision aneroid		Bellfort #5-800 9347.4		18 Dec 74	
Altimeter setting indicator		Kolloman 9347.4		18 Dec 74	
Pendulum X-Y Accelerator		Kolloman 9347.4		18 Dec 74	
Multiple frequency		Campbell-Stokes 51		18 Dec 74	
Sonic distance		See Attach. None		18 Dec 74	
Film balloons				18 Dec 74	
Radar		GMD-1B		18 Dec 74	
No. of stations connected		SAC AT CH		18 Dec 74	
Instrumental		Type Radar		Date connected 18 Dec 74	
Compass (1)		Type Radar		Repair location None	
Compass (2)		Type Radar		Owned by None	
Ceiling height				AUTOMATIC RECIEVER PICTURE TRANS. None	
Transistorized (1)				Remote Radio None	
Transistorized (2)				Remote Name None	
RVR Computer (1)				Type Radar	
RVR Computer (2)				Flood Stage Radar	
Radar				Level of water of sea None	
Tape GAGE				Tape GAGE Reader type None	
Recorders				In. None	
In. None				On. None	
Superseded by Form 800, page 1, which may be used.					
Prepared by Instrumentation Sub-Section				Title Antarctic Science Inside Dome	
Approved by Instrumentation Sub-Section				INSTRUMENTS - Page 1	

* Height and position of "N" below sea level determined by **Nav. Navigation Satellite Geodesy** - - Dec 74

Attachment # 1 shows the Instrument exposure and overall South Pole Station layout.

Attachment # 2 shows the Meteorological Office layout on the Ground floor of the Science Building Within the dome.

Prepared by **Instrumentation Sub-Section**

Approved by **Instrumentation Sub-Section**

Superseded by Form 800, page 1, which may be used.

NUMBER	LOCATION	ELEVATION ABOVE MEAN SEA LEVEL	AT THIS LOCATION		TYPE OF STATION	LATITUDE	LONGITUDE	CLOUDS	ASSIGNED STATION (H _P)	ACTUAL BAROMETER (H _A)	PREVIOUS LOCATION	FROM	TO	STATION	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)			
			ALINE DISTANCE AND DIRECTION FROM PREVIOUS LOCATION	ELEVATION ABOVE GROUND																								
1	South Pole Station	9186	1 Oct 57	24 Dec 74	-	90° South	-	9180	9186	9186	New South Pole Station	WSO	24 Dec 57	-	½ mile SW	90° South	-	9340	9342	9347								
2	Move from old South Pole Station to the New South Pole Station (Geodesic Dome). Accomplished during the Austral summer of 1974-1975.	Move from old South Pole Station to the New South Pole Station (Geodesic Dome). Accomplished during the Austral summer of 1974-1975.	REMARKS	(Reason for move, changes in observation programs, effects of buildings or terrain, etc.)	EL E V A T I O N A B O V E G R O U N D	WIND INSTRUMENTS	EXTREME THERMOMETER	PSYCHROMETER	TELESCOPE	ETHER CHROME	ETHER CHROME	BUCKET	WEIGHTING	8 INCH	RAIN GAUGES	8 INCH	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	
2	1	2	Move from old South Pole Station to the New South Pole Station (Geodesic Dome). Accomplished during the Austral summer of 1974-1975.	Move from old South Pole Station to the New South Pole Station (Geodesic Dome). Accomplished during the Austral summer of 1974-1975.	REMARKS	EL E V A T I O N A B O V E G R O U N D	WIND INSTRUMENTS	EXTREME THERMOMETER	PSYCHROMETER	TELESCOPE	ETHER CHROME	ETHER CHROME	BUCKET	WEIGHTING	8 INCH	RAIN GAUGES	8 INCH	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)

STATION HISTORY

RECORD OF TELEPHONE CALL

OUTSIDE PARTY:	Bill Callahan, W13x3	DATE:	TIME:
FIRM:	Overseas Operations Div., NWS	10/1/75	1130
ADDRESS:	Room 1334B, Gramax Building 8060 13th Street Silver Spring, MD 20910	REFERENCE:	7/8/75 D5312 memo to Callahan
CALL:	Brower/ACB	TELEPHONE NO.:	
X taken by	<input checked="" type="checkbox"/> placed by	FTS:	301-427-7784
		Commercial:	

(Include ZIP Code)	ORG. ROUTING CODE:	JOB NO: (if applicable)	TASK NO: (if applicable)
	D5 312	11089	

REMARKS:

Bill wanted to let us know that the Amundsen-Scott, Antarctica station will be operated by the New Zealand Weather Service effective January 1976. He doesn't know if NCC will continue receiving the observational forms after then. If NCC has questions, we should contact:

Dr. John Kelly
Office of Polar Programs
National Science Foundation
202-632-4162

I asked Bill if his office will be wanting NCC to produce CD's for the 1974-5 Amundsen-Scott data that is being processed here. (7/8/75 Reference: "The 1974 data for Amundsen-Scott has recently been keyed to tape and will be available for a routine application to produce CD#14 on your request)."

Bill will call later with the answer.

ADDRESSEE	ACTION	INFORMATION
CAD		X
CLIP		X
ISD		X
DOD		O X