

HEADQUARTERS TASK UNIT 13
Task Group 7.2
APO 187-HON, P.O. Box 8
c/o Postmaster
San Francisco, California

OPERATION MEMO)

30 April 1954

NUMBER 14)

SUBJECT: Additional Weather Data

TO: See Distribution

0149150

1. Inclosures 1, 2, 3 and 4 are tables of weather data obtained from Joint Task Force SEVEN.

2. The winds aloft in all cases were observed from the Curtiss. Pressure, temperature and dew point were obtained from the USS *Eairoko* observations with the exception of the KOON shot. The pressure, temperature and dew point for the KOON shot were estimated on the basis of the general weather situation and the measurements taken at Eniwetok. While the pressure, temperature and dew point were obtained at a distance of some 30 miles from ground zero, one can assume that the readings at ground zero would differ very slightly at the most.

3. The wind profiles for all local weather stations between H-6 to H/5 hours will be obtained as soon as possible and forwarded to those projects requiring this additional information.

4. You will note that the surface temperatures and dew point for ROMEO, KOON and BRAVO are in Fahrenheit degrees although the form indicates Centigrade degrees. Also, on KOON, the humidity is given in one place at 82% and at another at 79%.

FOR THE COMMANDER:

4 Incls:
Wea Data for:
1-BRAVO
2-ROMEO
3-KOON
4-UNION

Donald I. Prickett
DONALD I. PRICKEPT
Lt. Colonel, USAF
Operations Officer

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BRAVO

Date 1 March 1954 Time 0600 L Local Observation Time 0645 L
 Clouds lower 4/8 Cu Base 2,000 Tops 4,000 Middle None Base _____
1/8 As Base 17,000 6/8 Cs Base 80,000 Visibility _____ 15 Miles
 Sea Level Pressure 1006.1 Mb Wind direction 070 degrees Velocity 15 Kts
 Surface temp 80 °F Dew Point 72 °F Humidity 77 % Vapor pressure .783
 Local weather Partly Cloudy Remarks _____
 Latest winds aloft taken on Curtiss Position Bikini Time 0600M

ALTITUDE	DEGREES	KNOTS	PRESSURE	TEMP	DEW POINT	R H
Surface	060 :	12 :	1006.1 :	80°C :	°C : 77	F
1,000 Ft	070 :	17 :	:	:	:	:
1,500	080 :	18 :	:	:	:	:
2,000	090 :	18 :	:	21.0 :	19.9 :	90
3,000	090 :	17 :	:	:	:	:
4,000	090 :	14 :	:	16.4 :	15.7 :	90
5,000	100 :	9 :	:	:	:	:
6,000	120 :	4 :	:	13.8 :	9.7 :	74
7,000	310 :	4 :	:	:	:	:
8,000	310 :	5 :	:	13.7 :	-5.7 :	25
9,000	320 :	7 :	:	:	:	:
10,000	310 :	10 :	:	9.1 :	-3.2 :	41
12,000	300 :	7 :	:	5.1 :	-8.6 :	36
14,000	290 :	14 :	:	2.7 :	-15.6 :	25
16,000	290 :	13 :	:	-1.9 :	-14.3 :	38
18,000	280 :	13 :	:	-4.6 :	-20.0 :	29
20,000	260 :	19 :	:	-8.7 :	-19.9 :	40
25,000	260 :	19 :	:	-18.8 :	-30.2 :	35
30,000	250 :	26 :	:	-31.8 :	:	:
35,000	240 :	35 :	:	-44.2 :	:	:
40,000	230 :	35 :	:	-56.7 :	:	:
45,000	250 :	45 :	:	-67.8 :	:	:
50,000	250 :	31 :	:	-76.7 :	:	:
55,000	200 :	16 :	:	-80.4 :	:	:
57,000	340 :	:	:	:	:	:
65,000	:	:	:	:	:	:
70,000	:	:	:	:	:	:
75,000	:	:	:	:	:	:
80,000	:	:	:	:	:	:
85,000	:	:	:	:	:	:
90,000	:	:	:	:	:	:
95,000	:	:	:	:	:	:
100,000	:	:	:	:	:	:
105,000	:	:	:	:	:	:
110,000	:	:	:	:	:	:
115,000	:	:	:	:	:	:
120,000	:	:	:	:	:	:
125,000	:	:	:	:	:	:
130,000	:	:	:	:	:	:
135,000	:	:	:	:	:	:
140,000	:	:	:	:	:	:
145,000	:	:	:	:	:	:
150,000	:	:	:	:	:	:

REMARKS:

150,000

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Date 27 Mar 1954 Taken at Time 0600 L Local Observation Time 0600 L
 Clouds lower 2/8 CU Base 2500 Tops 5,000 Middle None Base _____
3/8 of Cirrus Stratus Visibility _____ 15 Miles
 Sea Level Pressure 1012.4 Mb Wind direction 040 degrees Velocity 10 Kts
 Surface temp 80 °F Dew Point 72 °F Humidity 77 % Vapor pressure .783
 Local weather Partly Cloudy Remarks No Showers Observed
 Latest winds aloft taken on Curtiss Position Bikini Time 0600

ALTITUDE	DEGREES	KNOTS	PRESSURE	TEMP	DEW POINT	R H	
Surface	040	10	1012.4	80 °C	72 °C	77	Ft
1,000 Ft							
1,500							
2,000	070	14		21.5	18.2	79	
3,000							
4,000	060	11		17.8	14.0	76	
5,000							
6,000	080	05		14.0	8.0	58	
6 900				12.5	4.0	44	
8,000	170	08		14.8	-7.7	21	
9,000							
10,000	180	08		13.0			
12,000	150	10		8.8			
14,000	100	10		5.2			
16,000	090	15		1.1			
18,000	100	17		-3.5			
20,000	100	20		-7.0			
25,000	170	14		-14.2			
30,000	220	08		-27.0	-35.0	46	
35,000	180	18		-39.5			
40,000	200	36		-52.5			
45,000	300	05		-64.3			
50,000	140	15		-75.0			SCRIPPS
55,000	270	15		-82.2			
60,000	270	13		-77.2			
65,000	320	10		-70.5			
67 000	080	22		-66.3			
75,000							
80,000							
85,000							
90,000							
95,000							
100,000							
105,000							
110,000							
115,000							
120,000							
125,000							
130,000							
135,000							
140,000							
145,000							
150,000							

REMARKS:

150,000

KUON

Date 7 April 1954 Time 0620 L Local Observation Time 0620 L

Clouds lower 2/8 Cumulus Base 2,000 Tops 8,000 Middle Alto Cumulus Base 18,000

Isolated Tops of Cu 30 To 40 M Visibility 15 Miles

Sea Level Pressure 1009.7 Mb Wind direction 090 degrees Velocity 13 Kts

Surface temp 81 °F Dew Point 75 °F Humidity 82 % Vapor pressure .866

Local weather Showers Remarks (Tops all clouds reported by aircraft 40,000)

Latest winds aloft taken on Curtiss Position Bikini Time 0400M

ALTITUDE	DEGREES	KNOTS	PRESSURE	TEMP	DEW POINT	R H
Surface	040	20	1009.7	81 °C	75 °C	79 Ft
1,000 Ft	070	17	973	23.5	22.0	
1,500			958	22.4	21.2	
2,000	060	16	940	21.1	20.4	82
3,000	090	08	909	19.7	19.0	
4,000	120	07	878	18.4	17.5	80
5,000	150	08	848	17.1	16.2	
6,000	170	12	819	15.8	14.9	78
7,000	170	17	789	14.3	13.5	
8,000	190	14	760	12.7	12.2	
9,000	200	14	733	11.2	10.9	
10,000	210	14	705	9.6	9.5	75
12,000	180	17	655	6.5	5.6	
14,000	200	08	608	3.0	-0.9	69
16,000	190	10	563	-0.3	-10.4	67
18,000	200	10	522	-3.8	-12.9	64
20,000	220	04	483	-7.8	-23.6	24
25,000	190	20	396	-18.0	-29.6	24
30,000	210	22	322	-27.5	-32.9	42
35,000	210	28	258	-39.8		
40,000	230	34	206	-51.8		
45,000	280	24	161	-63.8		
50,000	240	35				
52,000	230	39				
60,000						
65,000						
70,000						
75,000						
80,000						
85,000						
90,000						
95,000						
100,000						
105,000						
110,000						
115,000						
120,000						
125,000						
130,000						
135,000						
140,000						
145,000						
150,000						

SCRIPPS

REMARKS:

150,000

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UNION

Date 26 APRIL 1954 Time 0610 L Local Observation Time 0600 L

Clouds lower 2/10 CU SC Base 1800 Tops 3500 Middle 1/10 SC Base 12000

FEW VERY THIN CI Visibility 8 Miles

Sea Level Pressure 1007.4 Mb Wind direction 062 degrees Velocity 18 Kts

Surface temp 81 °F Dew Point 76 °F Humidity 86 % Vapor pressure 1.056

Local weather PARTLY CLOUDY Remarks NO INDUCED SHOWER ACTIVITY OBSERVED

Latest winds aloft taken on CURTISS Position BIKINI Time 0600 L

ALTITUDE	DEGREES	KNOTS	PRESSURE	TEMP	DEW POINT	REL. HUMIDITY
Surface	050	17	1006	26.8°C	24.2 °C	81 %
1,000 Ft	060	21	979	24.8	21.7	78
1,500	070	19	958	23.3	20.3	79
2,000	080	18	942	22.0	19.4	83
3,000	090	17	908	19.4	17.1	85
4,000	090	18	877	17.1	15.0	85
5,000	100	19	846	16.2	14.2	68
6,000	110	18	817	16.3	09.8	30
7,000	120	18	788	15.9	-02.2	45
8,000	130	17	760	13.8	00.0	70
9,000	120	16	733	11.2	04.5	57
10,000	110	12	707	09.9	01.8	41
12,000	350	04	655	05.8	-05.4	62
14,000	360	06	609	03.5	-06.7	50
16,000	240	25	563	-01.2	-11.7	45
18,000	290	14	522	-06.0	-15.5	56
20,000	260	15	483	-09.0	-16.3	63
25,000	200	33	397	-17.9	-23.5	62
30,000	250	40	322	-26.0	MB	
35,000	240	44	259	-37.8	MB	
40,000	250	40	207	-49.5	M	
45,000	250	40	157	-61.4	M	
50,000	260	28	123	-73.5	M	
55,000	220	09	097	-77.5	M	
60,000 (57000)	180	15	074	-79.8	M	
65,000			057	-67.7	M	
70,000						
75,000						
80,000						
85,000						
90,000						
95,000						
100,000						
105,000						
110,000						
115,000						
120,000						
125,000						
130,000						
135,000						
140,000						
145,000						
150,000						