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~~RESTRICTED DATA~~
~~ATOMIC ENERGY ACT - 1946~~

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This document consists of
Copy No.

10 Pages

CONSOLIDATED CLOUD BASE DATA

(All heights in thousands of feet MSL)

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

10-25-55
W.B. S.P. - LRO

Series and Shot Number

Mean Height of cloud base subsequent to period of rapid rise to fpo (final point of observation. Other cloud base height observations.

Absolute maximum height of base observed.

Time or time-range of observation, in minutes after burst.

Method of observation (P-photography (T-theodolite observation (A-sirocraft (S-sextant (U-Unknown

Data Source

RG 326 US ATOMIC ENERGY COMMISSION

Location LANL
Collection H-Dw Current File
Folder Untitled H-G

Remarks CLASSIFICATION CANCELLED BY AUTHORITY OF DOE/OC
Diag 10/3/83
VIEWED BY *[Signature]*

TRAPOT 1 18 Feb 55	14.9 14.5	7.5 15	P EGG Proj 15.2 A Prog 9.4	Fpo. One camera and cloud drift correction used.
2 22 Feb 55	16.5 17.0 17.0 17.0 15.0	3-20 20 10 48 48	P EGG Proj 9.4 " " " A Proj 9.4 " " " " " "	Two cameras in good agreement thru 15 mins. Cloud drift correction used. Fpo. Base steady. Base tailed down to 15,000'.
3 1 Mar 55	18.0 16.7 18.0	4-30 10 19 13	P EGG Proj 9.4 " " " " " " A " "	Two cameras in good agreement thru 18 mins. Cloud drift correction used. Familiar dip in height of base coincident in time with occurrence of maximum height of cloud top. Persisted for approximately 3 mins.
4 7 Mar 55	34.5 COPIED/DOE LANL RC 36.0	6-13 15	P EGG Proj 9.4 " " "	Two cameras in fair agreement thru 8 mins. Cloud drift correction used. Fpo. Base leveling off.

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(A)

6	27.0		8-30	P	EGG Proj 9.4	Two cameras in good agreement, and cloud drift correction used.
12 Mar 55		27.5	12	"	"	
		27.0-	37	A	Proj 9.4	
		28.0				
6	29.0		7-24	P	EGG Proj 9.4	Two cameras in agreement thru 13 mins. Cloud drift correction used.
22 Mar 55		30.0	24	"	"	Fpo. Base rising slowly.
	34.5		18	A	Proj 9.4	
	32.2		22	"	"	
		36.9	47	"	"	
7				P	WGG Proj 9.4	No collected for this shot.
23 Mar 55						
8	21.5		7-26	P	EGG Proj 9.4	Two cameras in fair agreement and cloud drift correction used.
29 Mar 55		21.8	26	"	"	Fpo. Base lowered at 17 mins in identical fashion as top of cloud.
0455 PST		22.8	17	A	Proj 9.4	
	18.0		44	"	"	
9				P	EGG Proj 9.4	No data because of overexposed film
29 Mar 55						
1000 PST						
10		55.0	4.8	P	EGG Proj 9.4	One camera used. Cloud dissipating rapidly.
6 Apr 55						
11	12.5	12.5	7-13	P	EGG Proj 9.4	Two cameras in good agreement after 8 mins. Cloud drift correction used. Base steady.
9 Apr 55		13.0	22	A	Proj 9.4	
		13.0	30	"	"	
12	34.2		7-31	P	EGG Proj 9.4	Two cameras in poor agreement. Cloud drift correction used.
15 Apr 55		34.8	20	"	"	

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13	31.8		6-14	P EGG Proj 9.4	Four cameras and cloud drift correction used. Agreement poor. Base steady after 6 mins.
5 May 55		29.0		" " "	
		31.9	8	" " "	
			7	" " "	Fpo of lower half of cloud which dissipated.

14	25.5		3-17	P EGG Proj 9.4	Two cameras and cloud drift correction used. Agreement fair.
15 May 55		26.5	4	" " "	

CASTLE	56.0		5.5-10	P ITR-933 Proj 9.1	Base rose gradually thruout.
1		62.0	10	" " "	Fpo. Base levelling off.
28 Feb 54		60.0		NYO-4645-AEC	
		55.0-		" EM-1378-AEC	Source reference, ITR-933 Proj 9.1
		60.0			

2	54.0		2.5-10	P ITR-933 Proj 9.1	Base rose steadily thruout.
26 Mar 54		62.0	10	" " "	Fpo. Base still rising.
		62.0		NYO-4645-AEC	
		50.0-		" EM-1378-AEC	Source reference, ITR-933 Proj 9.1
		60.0			

3				P ITR-933 Proj 9.1	No data due to cloud obstructions
6 Apr 54				NYO-4645-AEC	" " " " "

4	51.2		4-7.5	P ITR-933 Proj 9.1	Base rising slightly, Data doubtful after 5 mins.
25 Apr 54		53.0	7.5	" " "	Fpo. Base leveling off.
		50.0		" EM-1378-AEC	Source reference, ITR-933 Proj 9.1

5	66.0		3-9	P ITR-933 Proj 9.1	Base rising gradually.
4 May 54		75.0	9	" " "	Fpo. Data doubtful after 8.5 mins.
		60.0-		" EM-1378-AEC	Source reference, ITR-933 Proj 9.1
		70.0			

6	43.0		1.5-9.5	P ITR-933 Proj 9.1	Base rising very slowly.
13 May 54		46.0	9.5	" " "	Fpo. Data doubtful after 7 mins.
		40.0		" EM-1378-AEC	Source reference, ITR-933 Proj 9.1

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17 Mar 53	1	27.8	27.5	28.5	8-11	U	Unknown	Taken from unidentified graphs.
				28.5	11	"	"	Fpo. Base
			27.5	28.5	9	"	"	
				28.0	11	T	WT-705	Fpo. Base still lowering.
					"	"	Source reference WT-705	
					"	EM-1378-ABC		
24 Mar 53	2	26.2	26.0	27.0	5-14	U	Unknown	Taken from unidentified graphs.
					14	"	"	Fpo. Base apparently lowering steadily.
					10	"	"	
		23.3	22.5	24.5	6-15	T	Newgarden	Smoothed CP data.
					15	"	"	Fpo. Base still lowering slowly.
					7	"	"	
		28.3	27.5	28.5	6-14.5	"	"	Smoothed Wanger data.
					14.5	"	"	Fpo. Base lowering slowly.
				10	"	"		
				10	"	WT-705		
				13	"	"	Fpo. Base still lowering.	
					"	EM-1378-ABC	Source reference WT-705	
31 Mar 53	3	11.0	11.5	11.5	7.5-15	U	Unknown	Taken from unidentified graphs.
					15	"	"	Fpo. Base still rising slowly.
		11.2	11.5	11.5	8-15.5	T	Newgarden	Smoothed CP data.
					15.5	"	"	Fpo. Base rising slowly.
		11.1	11.5	11.5	8-15.5	"	"	Smoothed Wanger data.
					15.5	"	"	Fpo. Base rising steadily.
					15	"	WT-705	Base leveled off.
				12.0	A	Newgarden		
				11.0	T	EM-1378-ABC	Source reference WT-705. Base height doubtful.	
6 Apr 53	4	33.0	32.6	33.7	4.5-12	U	Unknown	Taken from unidentified graphs.
					12	"	"	Fpo. Base lowering steadily.
					8	"	"	
		33.1	31.5	33.8	6-14	T	Newgarden	Smoothed Wanger CP data.
					14	"	"	Fpo. Base lowering steadily.
					8	"	"	
					8	"	WT-705	Fpo. Base leveled off.
					"	"		
					"	NYO-4692-ABC		
					T	EM-1378-ABC	Source reference WT-705.	

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5 11 Apr 53	7.8		3-6	U	Unknown	Taken from unidentified graphs.
		7.7	6	"	"	Fpo. Base lowering slowly.
			4	"	"	
	7.7		2-9	T	Newgarden	Smoothed CP data.
		7.2	9	"	"	Fpo. Base lowering steadily.
			4.5	"	"	Banger CP data very erratic.
		7.9	4.5	T	WT-705	
	7.8		6	"	"	Fpo. Base leveled off.
		8.0		"	RM-1378-AEC	Source reference WT-705

6 18 Apr 53	23.4		5-12	U	Unknown	Taken from unidentified graphs.
		23.0	12	"	"	Base nearly steady
			10	"	"	Fpo. Base lowering slightly.
	23.8		5-13	T	Newgarden	Smoothed CP data. Base almost steady.
		23.6	13	"	"	Fpo. Base lowering slightly.
			8.5	"	"	
	21.3	24.0	4-13	"	"	Smoothed Banger CP data.
		20.2	13	"	"	Fpo. Base leveled off.
	22.2	4.5	"	"		
	23.0	12	"	WT-705	Base leveled off.	
	28.0		"	RM-1378-AEC	Source reference WT-705	

7 25 Apr 53	31.2		5-10	U	Unknown	Taken from unidentified graphs.
		30.7	10	"	"	Fpo. Base lowering slowly.
			8	"	"	
	30.9	31.5	4-11	T	Newgarden	Smoothed data.
		30.4	11	"	"	Fpo. Base lowering slowly.
		31.7	8	"	"	
		32.0	7.5	"	WT-705	
	31.0	10	"	"	Fpo. Base lowering slowly.	
	31.0		"	RM-1378-AEC	Source reference WT-705	

8 8 May 53	28.9		7-13	U	Unknown	Taken from unidentified graphs.
		29.0	13	"	"	Fpo. Base leveled off.
			11	"	"	
		29.1				
		33.0			NYO-4602-AEC	Dust trail down to 10,000'.
	26.8		6-14	T	Newgarden	Smoothed base camp data.
		26.3	14	"	"	Fpo. Base lowering slowly.
			10	"	"	
	29.3	27.2	6-14	"	"	Smoothed data from junction of Mercury & #93 highways.
		29.3	14	"	"	Fpo. Base lowering slightly.
	29.8	11	"	"		
	29.0	11.5	"	WT-705		
	28.5	13	"	"	Fpo. Base lowering slowly.	
	29.0		"	RM-1378-AEC	Source reference WT-705	

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19 May 53	27.3 27.0 27.6 28.0 27.6 27.5 27.7 27.5 27.0 28.0	8-12 12 10 8.5-13 13 11 9.5 "	U Unknown " " " " T NYO-4602-ABC T Newgarden " " " " " WT-705 " " " RM-1378-ABC	Taken from unidentified graphs. Fpo. Base lowering slightly. Smoothed data. Base almost steady. Fpo. Base leveling off. Source reference WT-705
25 May 53	23.5 23.0 23.8 22.0 21.5 20.0 23.8 23.5 22.5 24.0	4.5-7 7 5.5 4.5-11 10 5.5 5 7	U Unknown " " " " T NYO-4602-ABC T Newgarden " " " " " WT-705 " " " RM-1378-ABC	Taken from unidentified graphs. Fpo. Base lowering slowly. Smoothed CP data. Fpo. Base leveled off. Base lowered rapidly 5.5 thru 8 mins. Fpo. Base lowering rapidly. Source reference WT-705
4 Jun 53	35.0 35.0	A Newgarden NYO-4602-ABC	A Newgarden NYO-4602-ABC	Taken from unidentified graphs. Fpo. Base lowering slowly.
31 Oct 52	70.0- 80.0 87.2 48.6 40.5 55.0- 65.0	10.5 8. 7	A NYO-4555-ABC A Original WB Calculations S " " " " " P RM-1378-ABC	Estimate. Based upon Dr. Urry's flight data. " " USS Curtiss data. " " " " Source references, ITR-933 Proj 9.1, Rpt #1080 Prog 3.2
6 Nov 52	40.0 45.0- 55.0	NYO-4555-ABC P RM-1378-ABC	NYO-4555-ABC P RM-1378-ABC	Estimate Source references, ITR-933 Proj 9.1, Rpt #1080 Prog 3.2

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TUMBLER
SNAPPER
1

1 Apr 52

2	10.0	10.0 10.0	2-7	P R-265-ABC EGG " RM-1378-ABC	(Graph p.20) Fpo. Base Steady. Source references R-265-ABC, WT-552
15 Apr 52					
3	31.0	32.0 31.0	4-7 7	P R-265-ABC EGG " " " " RM-1378-ABC	(Graph p. 21) " " " Fpo. Base leveled off Source references, R-265-ABC, WT-552
22 Apr 52					
4	27.5	28.0 28.0	4.5-7.5 7.5	P R-265-ABC EGG " " " " RM-1378-ABC	(Graph p. 20) " " " Fpo. Base leveled off Source references, R-265-ABC, WT-552
17 May 52					
5					
7 May 52					
6					
26 May 52					
7					
1 Jun 52					
8					
5 Jun 52					

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WATER 1 22 Oct 51	6.7		6	WT-308	
2 22.5 23 Oct 51	13.0 22.5		6-7	WT-308 P R-265-AEC EGG P R-1378-AEC	Crude estimate. (Graph p. 18) Fpo. Base leveled off. Base 3-4 thousand feet lower than the top. Source reference R-265-AEC.
3 34.0 30 Oct 51	27.0 34.0 32.0		5.5-7	WT-308 P R-265-AEC EGG " RM-1378-AEC	Best estimate. (Graph p. 18) Fpo. Base leveled off. Source reference R-265-AEC.
4 1 Nov 51	31.0 27.0 24.0		7.5	WT-308 P R-265-AEC EGG " RM-1378-AEC	(Graph p. 19) Fpo. Base rising slowly. Source reference R-265-AEC.
5 5 Nov 51	35.0 32.5 30.0 32.0		3.5-8 5.5 8	WT-308 P R-265-AEC EGG " " " " " " " RM-1378-AEC	(Graph p. 19) " " " " " Fpo. Base lowering slowly. Source references R-265-AEC, WT-308 Proj 7.1
WATER 1-3 17 Nov 51	11.0 11.0			WT-308 P RM-1378-AEC	Source references R-265-AEC, WT-308 Proj 7.1
2-0 29 Nov 51					

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GREENHOUSE
1

7 Apr 51

2	30.0	30.0	6.5-9.5	P R-265-AEC	(Graph p. 17) Cloud base steady. Source reference Greenhouse Annex 4.1, Part II.
20 Apr 51		30.0		" EM-1378-AEC	Source references R-265-AEC, Greenhouse Annex 4.1, Part II.

3	42.0		6-10	P R-265-AEC	(Graph p. 17) Source reference Greenhouse Annex 4.1, Part II. Fpo. Base rising slowly. Data doubtful.
8 May 51		45.0	10	" "	
		42.0		" EM-1378-AEC	Source references R-265-AEC, Greenhouse Annex 4.1, Part II.

4
24 May 51

RANGER
1

27 Jan 51

2
28 Jan 51

3
1 Feb 51

4
2 Feb 51

5		27.0		A WT-202	Aircraft at 18-20,000'.
6 Feb 51					

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SANDSTONE 1 18 Apr 48	25.0	150	T* Humphrey Rpt	*Derived indirectly from theodolite data. Values uncertain.
2 30 Apr 48	35.0	180	T* Humphrey Rpt	*Derived indirectly from theodolite data. Values uncertain.
3 14 May 48	20.0	180	T* Humphrey Rpt	*Derived indirectly from theodolite data. Values uncertain.
CROSSROADS 1 30 Jun 46				
2 24 Jul 46				
NAGASAKI 1 9 Aug 45				
HIROSHIMA 1 5 Aug 45				
TRINITY 1 10 Jul 45				

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