19910807 ILCLPPHY AUG 07 1991

E.3 Cloud Physics Scientist (On-Board)

The on-board cloud physics scientist (CPS) is responsible for cloud physics data collection on his/her assigned aircraft. Detailed operational procedures are contained in the cloud physics kit supplied for each aircraft. General procedures follow. (Check off and initial).

E.3.1	Prefligh	nt englishmen and a second
V	_ 1.	Determine status of cloud physics instrumentation systems and report to the on-board lead project scientist (LPS).
V	_ 2.	Confirm mission and pattern selection from the on-board LPS.
	_ 3.	Select mode of instrument operation.
L	4.	Complete appropriate instrumentation preflight check lists as supplied in the cloud physics operator's kit.
E.3.2	In-Fligh	nt .
V	_ 1.	Operate instruments as specified in the cloud physics operator's kit and as directed by the on-board LPS.
E.3.3	Postflig	pht
V	_ 1.	Complete summary check list forms and all other appropriate forms.
V	_ 2.	Brief the on-board LPS on equipment status and turn in completed check sheets to the LPS.
V	_ 3.	Take cloud physics data tapes and other data forms and turn these data sets in as follows:
		 a. Outside of Miami - to the HRD operations center (FGOC). b. In Miami - to AOML/HRD. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
V	4.	Debrief as necessary at the appropriate operations center (i.e., FGOC or MGOC).
L	5.	Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

1991 0807 IL CLTPHY

Form E-3 Page 2 of 3

2-D Knollenberg Data Tape Log CaPE-II

Flight 9/0807I Operator RAB AUG 07 1991 Date_

Tape #	EOF #	Time On	Time Off	Comments
		192049		old allice 7-12.8
		193417		1930 - cla 3 pass! .
			193510	sime on window
2		193900	195500	cld 3 pass 2
3		195949	missed t	194030 SE vate
4.		31/130	missed.	194600 start cld 3 pass 3
5		4212500	2/2800	1948 00 pps 1 dd 4 offest
				195350 2nd poor led4
				200100 SC water
			18,900	212100 levent
			100000000000000000000000000000000000000	CAND MIA 213840
				· · · · · · · · · · · · · · · · · · ·
,			4 3 4 4 5 5	

Cloud Physics Project Scientist Operational Check List

Date _	8/07/91	Aircraft _	43 RF	Flight ID .	910807I1
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A. Instrument Status and Performance:

System	Pre-Flight In-Flight		Downtime	# of Tapes
Johnson-Williams	V			
PMS probes:	,		L.	
2D-P	N	6K		
2D-C	V	ok		
FSSP		NO GOOD		
Data System	V			
Recorder	V	V		
Formvar	V	more a less	high cloud p	asses missed.
DRI Charge Probe	Noisy			
DRI Field Mills	V	7		
King Probe		V		

B. Remarks:

Form E-3 Page 3 of 3

Formvar Log

Roll #	Time On	Time Off	Frame Count at Start	Comments
1	192100	174676	9	2 event at start 1721 spd.1
	201540	202100		1100 quents spd. 4
				3850 2 ments spd 1
			4676	yan or break
	reset	count ->	1)	20vets 2015 45 apd. 1
			700	sevents and 4
			~2800	291735 Zevet ppd. 1
			5000	201956 auto off apt. 1
			5150	211220 apd. 1
			5700	opd 4 2 marks 211309
			7800	zevery, 211422 new old was MII
			9100	zevent spd.6
			11500	2 event april \$
			12,700	7 everts spd. 4 pars 2211720
			15,400	spd 6 7 event 2/830
			17, \$800	spd le events
			18,900	1 event 212/00
			19,900	spd. 4 2 events 2\$2250
			23000	spd. 12 events
			23,900	opd 4 2 mbs. 212530

25,900 2 event autoff 212700