19900830HM_CLDPHY

AUG 3 0 1990

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 Preflight

_✓_ 1. Determine status of cloud physics instrumentation systems and report to the on-board lead project scientist (LPS).

_✓_ 2. Confirm mission and pattern selection from the on-board LPS.

_✓_ 3. Select mode of instrument operation.

_✓_ 4. Complete appropriate instrumentation preflight check lists as supplied in the cloud physics operator's kit.

E.3.2 In-Flight

_✓_ 1. Operate instruments as specified in the cloud physics operator's kit and as directed by the on-board LPS.

E.3.3 Postflight

_✓_ 1. Complete summary check list forms and all other appropriate forms.

_✓_ 2. Brief the on-board LPS on equipment status and turn in completed check sheets to the LPS.

_✓_ 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.]

_✓_ 4. Debrief as necessary at the appropriate operations center (i.e., FGOC or MGOC).

_✓_ 5. Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

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Cloud Physics Project Scientist Operational Check List

AUG 3 0 1990

Date AUG 3 0 1990 Aircraft N42 Flight ID 9008304

A. Instrument Status and Performance:

System	Pre-Flight	In-Flight	Downtime	# of Tapes
Johnson-Williams	✓	✓		
PMS probes:				8
2D-P	N/A			
2D-C	✓	as usual		
FSSP	✓	"		
Data System	✓	"		
Recorder	✓(one)	"		
Formvar	N/A			
DRI Charge Probe	"	upper is flaky.		
DRI Field Mills	"			
King Probe	down			

B. Remarks:

King probe is down As usual, 2D-C is mostly noise. 202274 - end diode volts .2 +.3V Storm has a beautiful eye. End diode voltages are quite variable max #32 1.1v min 0.23v MAX #1 0.6V min 0.2 1v

Formvar Log

Date ____________ Flight ____________ Operator ____________

Roll #	Time On	Time Off	Frame Count at Start	Comments

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2-D Knollenberg Data Tape Log

Date AUG 3 0 1990 Flight 900830H Operator R. A. BLACK

Tape #	EOF #	Time On	Time Off	Comments
1	1	193630	195919	lock on at IP on Waide 195440
2	1	200059	201255	EOF in eye nice rainbands E side
3		201730	222313	point 2⇒3 NE of center (mucho lossina, este tape)
4	11	203445	204900	inbound #3 to center EOF in eye 204730 on
5	11	210741	211609	start at drop
6		212425	213003	N eyewall
7		213245	213830	strong rainband N of eye
8		214042	214626	track toward Bermuda.
		FINITO!		