# 19900831 II\_CLDPHY

#### 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

- Determine status of cloud physics instrumentation systems and report to the on-board lead project scientist (LPS).
- Confirm mission and pattern selection from the on-board LPS.
- Select mode of instrument operation.
  - 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.
- 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**

Date 8/3/190 Aircraft RF-43 Flight ID 90083/7

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A. Instrument Status and Performance:

System	Pre-Flight	In-Flight	Downtime	# of Tapes
Johnson-Williams				
PMS probes:				
2D-P				
2D-C				
FSSP				
Data System				
Recorder				
Formvar		1		
DRI Charge Probe				
DRI Field Mills				1
King Probe				

B. Remarks:

11 TOTAL OF 8 TAPPS WERE USED 2) AUTO-SWITCHING OF TAPES was not WORKING FOR and portion OF FLIGHT 3) DRIVE #2 went down several Times duving 2nd portion OF FLIGHT

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### Formvar Log

Date90/08/31

Flight 900831 I Operator KAPTAN

Roll #	Time On	Time Off	Frame Count at Start	Comments
1				
				1
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	100			
		Sec. Sec.		

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7

## 2-D Knollenberg Data Tape Log

Date 90/08/31

Flight 900831 I Operator KAPTAN

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Tape #	EOF #	Time On	Time Off	Comments
		21558	~1936	
2		~ 1936	~ 1942	
3		~ 1942	~ 2018	TAPE prive didn't arto-switch to other Tape
4		~2019	22026	
t		~ 2030	~ 2035	Following TROC + BREAGER OF Problems Following TROC + BREAGER OF Problems Pid and start in redigter AFter Tipes, due to drive groblems
6		~ 2038	~ 2050	AFter Tipes, due to drive problems
7		~ 2050	~ 2100	
8		~2102	~23704	
		and the second second	125	
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			S. States	
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