

1989091711_ 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 as determined by the HRD/CPS.
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 Operate instruments as specified in the cloud physics operator's kit and as directed by the HRD/CPS, unless superseded by directions from the on-board LPS.

E.3.3 Postflight

- 1. Complete summary check list forms and all other appropriate forms.
 - 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 to the OAO flight director, who will arrange delivery as follows:
 - a. Outside of Miami to the HRD operations center (FGOC).
 - b. In Miami to OAO/Science and Program Division. [Note: all data removed from the aircraft by HRD personnel should be cleared with the OAO 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.

PRACHTEL CLEARY

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Cloud Physics Project Scientist Operational Check List

Date 9/17/89 Aircraft 43RF Flight ID 89091721

A. Instrument Status and Performance:

System	Pre-Flight	In-Flight	Downtime	# of Tapes
Johnson-Williams	V			
PMS probes:	~			
2D-P	POSTSNITAL PROBLEM, WOR	WIND IT		
2D-C	10.			
FSSP	~			
Data System				
Displays				
Formvar				+
Nimbiometer				
CO ₂ Radiometer				

Remarks: Β.

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2-D Knollenberg Data Tape Log

Date		Flight		Operator
•				· · · ·
Tape #	EOF #	Time On	Time Off	Comments

slow rate - 0,1

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TO 1624/06

Formvar Log

1947 50 Nav, says ZNTE#7 looking alittle better than INE#2 INE#2 45 mi off.

Date 9/17/89 Flight 890917 II Operator Willy 1923 besty Jew worcow Frame Count at Roll # Time On Time Off Comments 1718/04 bait to 0.1 Start QPROBIE IN BANK -2.80 21806 0,1 AT FIRST 1710/30 1812 Graupe un glass 2 1815 21806 180428 max 3 1826/104920/50 191619 may rate entaring only 1937/32 1920/80 still in W Gwall shut form slowte 192555 pack to unit 1946/05 1956 55 1946/05 949/15 max rate in Conrective band 5 1954/13 slow vate agams till in band und 1956/43 may vate going down band mu 1956/55 200240 max rate going downword in Gand, statio 2026/47 2038 max in eyewall N side 7 2029/03 min rate in eye and the stat. Swag eyewall 2035 2041/24 slowvate n2038 1214410 8 2117 136 fast rate in confective back 2118/08 slow again outer de compretion max thrug NW eyewall graupel 9 N21446 22149 in ege VISE W eyewall max rate lots of light 224609 225260 2358/2 in eye 10 N eyewall may rate lofs grangel 13ktmiz 11