

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.

Many clear air updates, appeared to overheat at least once. Precip probe appeared to work quite well

YAGC, ITTS 800 GAMACHE

Cloud Physics Project Scientist Operational Check List

Date Aug 27, 1990 Aircraft N43RF Flight ID 90082711

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				
DRI Charge Probe				
DRI Field Mills				
King Probe				

B. Remarks:

2-D Knollenberg Data Tape Log

Date Aug 27, 1990 Flight 900827II Operator GAMACHE

Tape #	EOF #	Time On	Time Off	Comments
1		152148	152700	T10 1330 GMT Start in West-side RB
2		1527	01537	Stopped @ 1529 in eye restart 1532
3		1537	154115	
4		154145	154345	
5		154345	155430	154440-154500 off 154600-154110
6		155430	160000	
7		160000	160930	1601 off 1605 taken
8		16 ⁰⁹³⁰ 1508	161508	
9		161508	162035	
10		162035	162610	
11		162610	163140	
12		163140	163555	Some sort of comp. glitch
13		163555	173705	164030 -- stopped working restart 173600
14		173705	174240	
15		17 ²⁴⁰ 4055	174755	
16		174820	175400	
17		175400	175900	
18		175900	180500	
19		181100	1810??	
20		184945	185440	

-getting
stuffy

21 185440 190005 26-1921-1927
 22 190005 190540 27-1929-193410
 23 190500 1911 28-19340-193940
 24 191100 1916 29-193940-194427 (stopped 194427)
 25 1916 - 1921