

SEP 20 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

Date SEP 20 1990 Aircraft N42 Flight ID 900920H

A. Instrument Status and Performance:

| System | Pre-Flight | In-Flight | Downtime | # of Tapes |
|------------------|--------------|-----------|----------|------------|
| Johnson-Williams | ✓ | | | |
| PMS probes: | | | | |
| 2D-P | ✓ | | | |
| 2D-C | MAYBE | | | |
| FSSP | ✓ | | | |
| Data System | ✓ | | | |
| Recorder | ✓ (one only) | | | |
| Formvar | N/A | | | |
| DRI Charge Probe | N/A | | | |
| DRI Field Mills | OK ↑↓ | | | |
| King Probe | OK | | | |

B. Remarks:

Formvar Log

Date _____ Flight _____ Operator _____

[illegible]

2-D Knollenberg Data Tape Log

Date SEP 20 1990

Flight 900920H

Operator R. A. BLACK

[illegible]