

# 19870930T1 - CLOUD

## 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

- NMD 1. Determine status of cloud physics instrumentation systems and report to the on-board Lead Project Scientist (LPS).
- NMD 2. Confirm mission and pattern selection from the on-board LPS.
- NMD 3. Select mode of instrument operation as determined by the HRD/CPS.
- NMD 4. Complete appropriate instrumentation preflight checklists as supplied in the cloud physics operator's kit.

### E.3.2 In-Flight

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 Operate instruments as specified in the cloud physics operator's kit and as directed by the HRD/CPS unless superseded by directions from the on-board LPS.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

- NMD 1. Complete summary checklist forms and all other appropriate forms.
- NMD 2. Brief the on-board LPS on equipment status and turn in completed check sheets to the LPS.
- NMD 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.]
- NMD 4. Debrief as necessary at the appropriate operations center (i.e., FGOC or MGOC).
- NMD 5. Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

00000-110870891

Cloud Physics Project Scientist Operational Checklist

Date 9/30/87

Aircraft 43

Flight ID 870930I1

A. INSTRUMENT STATUS AND PERFORMANCE

| System                     | Preflight | Inflight | Downtime | # of Tapes |
|----------------------------|-----------|----------|----------|------------|
| Johnson-Williams           | ↑         | ↑        | ↓        |            |
| PMS probes                 | ↑         | ↑        | ↑        |            |
| 2D-P                       | ↓ ①       | ↓        | ↓        |            |
| 2D-C                       | ↑         | ↑        | ↑        | 7          |
| FSSP                       | ↑         | ↑        | ↑        |            |
| Data Sys                   | ↑         | ② ↑      | ↑        |            |
| Displays                   | ↑         | ③ ↑      | ↑        |            |
| Formvar                    | —         | —        | —        |            |
| Nimbiometer                |           |          |          |            |
| CO <sub>2</sub> Radiometer |           |          |          |            |
|                            |           |          |          |            |

B. REMARKS

- ① PRECIP PROBE STILL DOWN
- ② TAPE DRIVE PROBS CONTINUE
- ③ SCREEN JUMPY



DATE 09/30/87

FLIGHT 870930 I1

OPERATOR DORST

## 2-D Knollenberg Data Tape Log

[illegible]

DATE \_\_\_\_\_ FLIGHT \_\_\_\_\_ OPERATOR \_\_\_\_\_

## Formvar Log

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