1985100911. CLOPHY

OCT 9 1985

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 Cloud Physics Scientist (On-board)

Goldenberg 851009II Isador (

1. Determine status of cloud physics instrumentation systems and report to the on-board Lead Project Scientist (LPS).

2. Confi

E.3.1 Preflight

- . Confirm mission and pattern selection from the on-board LPS.
- 3. Select mode of instrument operation as determined by the HRD/CPS.
 - 4. Complete appropriate instrumentation preflight checklists as supplied in the cloud physics operator's kit.

E.3.2 In-Flight

APT 1.

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 Operate instruments as specified in the cloud physics operator's kit and as directed by the HRD/CPS unless superseded by directions from the on-board LPS.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

From E-3

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Cloud Physics Project Scientist Operational Checklist

DATE	OCT	9 1985	AIRCRAFT	43RF	FLIGHT	851009I	(
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A. INSTRUMENT STATUS AND PERFORMANCE

System	Preflight	Inflight	Down time	#Tapes/data units
Johnson-Williams (JW)	Ľ			
PMS probes				
2D-P				
2D-C				
FSSP				
DAS				
Display(s)			-	
Formvar	,			
Nimbiometer				
Lyman-Alpha				
U.V.				
Dew Point	AK			
CO ₂ Radiometer				
Microwave Radiometer				
Ice Particle Counter				
Mee				
ERT				
Aerosol			-	
Filters				
Bulk-Water				
INC	-			
CCN			-	

B. REMARKS

_ Precip probe over loading (constant update) Turned off at 1722 -

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DATE OCT 9 1985

FLIGHT \$51009I1



2-D Knollenberg Data Tape Log

Tape #	EOF #	Time On	Time Off	Comments]
	1	1720	1722	Beginning of stair stepin "band" (Starth)	(1420m)
	2	1722	1731 80	×.	
2	1	173140	174808	striv-step (cont) (700 me	es)
	,			(* 45° (* 25°	meters)
3	1	1748 08	180335)) (250 meters)	
				(Spiral up to 5000-feet at 1755 then 1500 feet	
	Ì	182930	1904 00	And staivater (starting before reaching band - 1st altitude is 13	oo meter
				(Staivstep short-c, vanited	
				(mostatent in clear and)	p.
					1
			-		

* Preap proble overloading (constant update) so turned off at 1722. 83

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i.

FLIGHT_____

_OPERATOR_____

Formvar L	og
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ROLL #	TIME ON	TIME OFF	FRAME COUNT AT START	COMMENTS
7				
ļ				
			-	