19840922H1-CLDPHY

E.2 Cloud Physics Scientist (On Board)

The on-board cloud physics scientist is responsible for cloud physics data collection on his or her assigned aircraft. Detailed operation procedures are contained in the cloud physics kit supplied for each aircraft. General procedures follow. (Check off and initial.)

E.2.1 Preflight

_____ 1. Determine status of cloud physics instrumentation systems and report to on-board lead project scientist.

_____ 2. Confirm mission selection and pattern selection from on-board lead project scientist (LPS).

_____ 3. Select mode of instrument operation as determined by HRD cloud physics scientist.

_____ 4. Complete appropriate instrumentation preflight checklists as supplied in cloud physics operator's kit.

E.2.2 In-Flight

_____ 1. Operate instruments as specified in cloud physics operator's kit and as directed by HRD cloud physics scientist, unless superseded by directions from on-board LPS.

E.2.3 Postflight

_____ 1. Complete summary checklist forms and all other list forms.

_____ 2. Brief 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, such as formvar film, foil, etc., and turn these data sets in to the flight director, who will arrange delivery as follows:

a. Outside of Miami - to HRD operations center.

b. In Miami - to OAO DQAG offices.

_____ 4. Debrief as necessary at operations center.

_____ 5. Determine status of future missions and notify operations center as to where you can be contacted.

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Cloud Physics Project Scientist Operational Checklist

DATE Sep 22, '84 AIRCRAFT 42RF FLIGHT 840922H

A. INSTRUMENT STATUS AND PERFORMANCE

	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected
Johnson-Williams					
Nimbiometer					
Lyman Alpha					
U. V.					
dewpoint					
Formvar	ok				
Knollenberg	O'				
Raindrop					
Cloud Droplet	K				
FSSP					
Data System					
& Displays					
Ice Particle Counter					
Mee					
ERT					
CO_2 Radiometer					
Microwave Radiometer					
Aerosol					
Filters					
Bulk-Water					
INC					
CCN					

B. REMARKS

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DATE Sep. 22, '84 FLIGHT 840922H OPERATOR Bogert

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2-D Knollenberg Data Tape Log

Tape #	EOF #	Time On	Time Off *	Comments
1		211000		extrm OUTER FRINGES of "N" 6
2		212145		IN Dense CLDS, NO good.
3		212726		NO good ... W/R off
4		213838		
5		214910		
6		215440	220010	
7		220049		
8		220610		
9		221135		
10		221702		
11		222548	223228	
12	2237--	~~223228~~		DIDN'T Switch OVR ...
13		224240		
14		225414		
15		230045		
16		232735		
17		234000		
18		234500		
19		235050	240202	#20 = 240300 on off

* off TIMES will be THE Same AS NEW TAPE START TIMES. (AUTO-SWITCHED)