1984 0911 IZ_ CLIPHY

E.2 Cloud Physics Scientist (On Board)

Goldenberg GDiana FIX 840911I

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 Prefl	ight_
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-F1	ight
	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	and as directed by HRD cloud physics scientist, unless superseded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 Postf	flight
1.	Complete summary checklist forms and all other list forms.
	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 UAU 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.

B.

Cloud Physics Project Scientist Operational Checklist

DATE Sept 11, 1984 AIRCRAFT 43 RF FLIGHT 840911I

A. INSTRUMENT STATUS AND PERFORMANCE

	THE TROUBLE STATES AND PERFORMANCE						
	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected		
Johnson-Williams	V	1/		Carga .			
Nimbiometer	Not Inst						
Lyman Alpha	NA						
U. V.	NA						
dewpoint	MA						
Formvar	NA						
Knollenberg				1			
Raindrop	~	V					
Cloud Droplet		-		1			
FSSP	V						
Data System		V	1		- 1 to 1 to 1 to 1		
& Displays	~	V					
Ice Particle Counter	NA				162		
Mee	NA						
ERT	NA						
CU ₂ Radiometer	V						
Microwave Radiometer	NA	NA	30	TANK TO SEE	5 EX.		
Aerosol	NA	(
Filters							
Bulk-Water					(A)		
INC							
CCN							

REMARKS	
Had occasional problems with	tape switching (Auto)
but sams abought now -	
Flightat 5000 Ft.	
- I tapes used	

DATE Sep. 151984 FLIGHT 840911 I

2-D Knollenberg Data Tape Log

OPERATOR Goldenberg Includes inner & "outer" eye walls only

				0
Tape #	EOF #	Time On	Time Off	Comments
1	1	2123	2136	North eye wall (from south)
vi	2	2244	2256	Penetration from East
2	1	2256	2304	West walk
ıı	2	2344	2345	
3	/	2345	2 359	penetration from Fist- (hain eye wall of 2350)
				(to broke out the East at 2356)
4	/	2359	~0003	Outer wall (Problems with Tapedvine #2
				So some extra EOFS)
1 /	2	0/09	0117	Penetration from ESE (Hdg. 290 (owterband at 0112)
5	1	0117	0134	Inher eye at 0119.
6	1	0134	0134	(negligible)
	2	0234	0247	Last penetvation (from Fast)
7	1	0247	0305	out at 180 Hay, (eyenall 4 0247- (644er band at 0253)
-				
			1/3	

DAT	C C T C	UT.	ADEDATAD
DAI	E FLIG	n I	OPERATOR

Formvar Log

ROLL #	TIME ON	TIME OFF	FRAME COUNT AT START	COMMENTS