# 19900831H1\_CLDPHY

AUG 3 1 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	RAB)
_/	_ 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.
	<b>Z</b> 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	
V	_ 1.	Operate instruments as specified in the cloud physics operator's kit and as directed by the on-board LPS.
E.3.3	Postfligh	nt
	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:
V		<ul> <li>a. Outside of Miami - to the HRD operations center (FGOC).</li> <li>b. In Miami - to AOML/HRD. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]</li> </ul>
		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.

19900821HI\_CLEPERY

Form E-3 Page 1 of 3

### Cloud Physics Project Scientist Operational Check List

Date AUG 3 1 1990 Aircraft NOA9-42 Flight ID 90083/H

A. Instrument Status and Performance: R. A. B.

System	Pre-Flight	In-Flight	Downtime	# of Tapes
Johnson-Williams	DOWN			
PMS probes:				25
2D-P	ţn	OK		
2D-C	tn	2k		
FSSP	1)	ok		
Data System	17	CRAP		
Recorder	(only 1)	see below		
Formvar				
DRI Charge Probe	100			
DRI Field Mills	up & down V	ok		
King Probe				

	B. Rema	arks: Eno	I diade volto on both probes one uneven	+ low
		on	#1 diode. Durage monitor going bod. reset formattes 3 times	
trus	and diodes		the 3 ti	
	#/	#2	rese formaties 3 umes	
	C=.32	143		
	P=1205	3.00		

# Formvar Log

Date		Flight		Operator
Roll #	Time On	Time Off	Frame Count at Start	Comments
L.				
	ATEL STATE			
	944 - A			
207 10 4				

# 2-D Knollenberg Data Tape Log

Date AUG 3 1 1990 Flight 90083/H Operator R.A. BLACK

Tape #	EOF#	Time On	Time Off	Comments
1		163609	164146	STAR+ at IP after drop #/
2		164346	165714	eyewall pen. Woide. slowrate 16446
3		165937	170518	5 eyewall 165630
4		170755	171427	motive
5		172051	173354	hadit on the rate for awhile.
6		1736//	175543	servered. Tape formather reset had it on these rate for awhile. slow for out, fastin eyewall start in turn informed from pt. 4
7		175753	180820	No eyewall, then westlound
8		181100	182120	westlound
9		182338	182955	southbound NNW of center.
10		183206	183744	southbound sw greater
11		183956	185001	//
12		185216	185755	eastbourd Swofcenter
13		190022	190824	slow in turn torond center
14		191030	193150	stop before end,
15.		193506	194049	Eagewall
16		194240	200355	slow in turn E of center
17		200622	202706	Southbourd into exercall
18		203214	210024	westlound out of eye
19		210351	211950	NE northbound into ege at start
20		212204	2/330	in new NW exewall
21		2/3544	214456	outer convection N-NW+Wofcer
22		2147	215256	
23		221103	220847	50 eyewall

221936 .2238\_ - climbout (downete), fast near o'c