E.5 Doppler Radar Scientist (On-Board)

The on-board Doppler radar scientist (DRS) is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and check lists are contained in the operator's manual supplied to each operator. General supplementary procedures follow. (Check off and initial.)

Preflight

-

- 1. Determine the status of equipment and report results to the on-board lead project scientist (LPS).
- 11 2. Confirm mission and pattern selection from the on-board LPS.
- MMD 3. Select the operational mode for radar system(s) after consultation with the on-board LPS.
- 4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

E.5.2 In-Flight

- 1. Operate the system(s) as specified in the operator's manual and as directed by the on-board LPS or as required for aircraft safety as determined by the AOC flight director or aircraft commander.
- 2. Maintain a written commentary in the radar logbook of tape and event times, such as the start and end times of F/AST legs. Also document any equipment problems or changes in R/T, INE, or signal status.

E.5.3 Postflight

- 1. Complete the summary check lists and all other appropriate check lists and forms.
- MMD 2. Brief the on-board LPS on equipment status and turn in completed forms to the LPS.
- 1 MM 3. Hand-carry all radar tapes and arrange delivery as follows:
 - a. Outside of Miami to the HRD Field Ground Operations Center (FGOC).
 - b. In Miami to MGOC or to AOML/HRD. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
- 4. Debrief at the appropriate operations center (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.

Form E-5 Page 1 of 3

Doppler Radar Scientist Check List

•			
Flight ID:98082911			gheir s
Aircraft Number: <u>N43RF</u>	and the second		
Doppler Radar Operators: DORST / LI	ANDSEA /	MARKS	<u></u>
Radar Technician: T. LYNCH			
Number of digital magnetic tapes on board:	6		
Component Systems Status:			
Component Systems Status.	0	1	
MARS	Computer		
DAT1	DAT2		
LF	R/T Serial # _	103	<u></u>
ТА	R/T Serial # _	201	<u>de la p</u> erse
Time correction between radar time and digital time:		-1 sec	
			28.4-1
Radar Postfli	ght Summary		
Number of digital tapes used:	DAT1	2	
	DAT2	-	<u>-</u>
Significant down time:			
DAT1	Radar LF	16 min	_
DAT2	Radar TA	16 min	_
Other Problems:			

Form E-5 Page 2 of 3

HRD Radar Tape Log

Flight_	98082911	Aircraft	N43RF	Operator Da	rst	_ Sheet of
	LF RPM	2		TA RPM	10	

(Include start and end times of DATs, as well as times of F/AST legs and any changes of radar equipment status)

Tape #	F/AST On?	Event Time (HHMMSS)	Event
1	Yes	190203	BEGIN RECORDING
		2006	AT 1P 23° 14.8° 72° 13.1'
	NO	202716	CHANGE TO HURRI / CONT MODE
	YES	2054	GONE TO FIA ST MODE
		21077	GONE TO CONT MODE
		213608	CHANGETO HURR2 SET-UP
and all	YES	213640	GONE TO F/A ST MODE
1		001563	TAPE 1 END/ COMPUTER STOPPED
2		003200	RESTART TAPE2
2		024820	END RECORDING
	5.1	e a	
		4	
		Jagan and and a state	
	L		
		- 1921 - N	
		Sec.	

Form E-5 Page 3 of 3

.

HRD Radar Down-Time Log

Operator		Flight ID	Sheet of
Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
COMPUTER	001503	003200	RADAR STOPPED
		and the second second	
	est lais ser		

Item List: DAT1, DAT2, COMP, MARS, LF, TA.

Include serial numbers of any new R/Ts.