# 19890905H1\_ RADAR

#### 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.)

## E.5.1 Preflight

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

## E.5.2 In-Flight

- MMD
- 1. Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.

### E.5.3 Postflight

- MMO 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.
  - MA) 3. Hand-carry all radar tapes and arrange delivery as follows:
    - a. Outside of Miami to the HRD 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 OAO flight director.]

- 4. Debrief at the appropriate operations center (FGOC or MGOC).
- 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 Scientis	t Check List
Flight ID	12
Aircraft #N42RF	
Operators DORST	
Radar Tech. LYNCH	
Number of digital magnetic tapes on board	20
Number of tape labels on board	+
Component systems up and checked:	
MARS Com	nputer
DMTR1 DMT	R2
LF B/T#	103M
TA R/T#	42671 GPN
Time correction between radar time and digital	time
Radar Postflight S	ummary
Number of digital tapes used: DMT	rrn
DMT	TR2O
Significant recorder down time:	
DMTR 1 Rad	ar LF
DMTR 2 Rad	ar TA
Other problems: Evanything A-OF	S, just no Jata

19890905HI\_ MARAR

2

Form E-5 Page 2 of 3

1

HRD Radar Tape Log

Flight	890905 H Aircraft	N42RF	Operator	DERST	Sheet of
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Tape #	Time On	Time Off	Comments
DI/TI	18:28:15	19:36:30	"Clear" air; Peter Black Special Request
$D_2/T_1$			
			they are a second se
			and Benghi Maria Likan
25			
		2.10° C	
	and the second		

Form E-5 Page 3 of 3

HRD Radar Down-Time Log

Op	erator De	RST	Sheet of
Item	Time Down	Time Up	Problem
System	19:36	19:50	? DION'T AFFECT DATA GATHERINE
0			The state of the s
		1	
			· ·
		1	

Item List: DMTR1, DMTR2, COMP, RDSC, LF, TA, DSC1, DSC2.

890905H1- SyNOPTIC FLOW AROUND Ausricane Gabrielle UPS - Dr B BURPEE; ODW Sci Dr PBlack Sit James Franklin; RADAR - N DORST FD - Phil Bogert. 2 NWS gaests T/O SUU LAND SUU LAND SJU 17:152 23:232 0 1748 - Word just Came down that 43 blew an ongine \$ in returning to MIA. James doesn't want to men a full Synoptic flow so we have a trucated Cent flight. No notion LE, yet. 18:26 - No large scale echos are in sight to Black wants 1 tapes worth of Dopplar data to show Do Marks the slew in ground Speed. Dr. Burpee 50% OK NO Will record DI/FI non. 19:36 - Ssopped recording This was a real "apple pie" ylight. Everyone very helaxed & on quests and thik it's always like this. 23:23 - Land Sen Juan.