19890921II_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

ump

1. Determine the status of equipment and report results to the on-board lead project scientist (LPS).

MMO

2. Confirm mission and pattern selection from the on-board LPS.

Mond

3. Select the operational mode for radar system(s) after consultation with the HRD/DRS and the on-board LPS.

MMD

4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

E.5.2 In-Flight

ams

 Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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

nonD

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.

MMP

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.]

Mino

4. Debrief at the appropriate operations center (FGOC or MGOC).

non

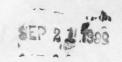
 Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted. 19890921II_RADAR

Form E-5 Page 1 of 3

SEP 2 1 1989

Doppler Radar Scientist Check List

Aircraft # 43	rd
LF	B/T#
TA	B/T# 104
Time correction between radar time and	
Radar Postfli	ght Summary
Number of digital tapes used:	DMTR1 4
Significant recorder down time:	
DMTR 1	Radar LF
Other problems:	



Form E-5 Page 2 of 3

HRD Radar Tape Log

Flight	89092171 Aircraft	43	Operator Dorst	Sheet_i_ of
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Tape #	Time On	Time Off	Comments
DITI	2250	2356	STARTED IN OUTER BAND
D2T1	2356	0035	
DITZ	0035	0113	NICE EYE 00597
D2TZ	0113	0150	EYE 0131Z
DIT3	0150	0225	
D2T3	0225	0302	
DITY	0302	0341	
D2T4	0341	04160	EYE 2 over Land 0322Z
7/			
1			

Form E-5 Page 3 of 3

HRD Radar Down-Time Log

Operator _	DORST	Sheet of

Item	Time Down	Time Up	Problem
DSCI	12:15	05,00	COME OUT, NO DUALLE DISPLAY
	*		
7.3			
	1		
	14.8		

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

Sheets called the plane & Chagged dot flight pattern. Or HEW is very Pood. Thinks any data we collect 890921 I - RECCO ON +1000 22:50 - Started recording Lata. Due - LPS - DAHEW RADAR - N DORST CPS - DON HALLET (FIELD MILL MAN) to delay in setting up DSC 3 \$ 2 for A TON OF PRESS CORP (Ch. 7, NBC,?) cF I didn't start recording 'til WAY LOW ON TAPE LABELS, WHAT we were in an outer band. DO YOU GUYS DO PEAT THEM! y 'tween bands. 1/0 was scheduled for 3 50 PM EDT, --- but fuel leak in wing tank delayed 20NM; ege closed - up 2 hs 23:07 - he eye, clear above, sea is TO 2141 Z MIAMI LAND 0506 Z MIAMI boiling before, Last roys of sulight are striking cirrus above the eye. - 21:58 - Radar System up & runing. Not ODW drop. I Than or bit in the eye for Tveraos Abt much day light left. Shawe as this is nice eye. 23:18 - Still orbiting, LF data Gray. - 22:15 - Just sitting at radar station DSCI goes down Roles can't 23:24-7 inally finiteshed terms & rolls 2 nel ODW drop good, LF presentation in row OK. restors it so we only have I 23:33 - Passed the NE agewall max LF display. Jack Parrish 523 put it on to display of changer wom cla 120+ lets. Maybe 2 mind may very close togeather 22:36 - Eye on Jereen 150 NMi front out.

areas of Stratiform precip. 02312 - Jack Parrish requested that on this possibly cast eye pen for HUGO that fere LF be Filted Sund not so do so if it ruins out radar data. I'll try to thread that needle. nomed & closed () over the coastling. NW eyewall is 03007-Switched to INEZ, INEI may have problem. 1. 01:23 - 9st. food speed of HUVO 20kg 58en in NW Quad of use 140 kt winds Steady in NE age ward. 03447- Houry convective band (tching Hour) Sox Storm J 7 01312 - Back in the eye Nice display. 1 D200 Z- Jim Roles put 1 TA on D5C2 for a while Looles good 0354 Z Chinking for flight home. Cast bend 150 NM: away. 0245-Painting coast of So Carolina 05067 Touchdown MIAMI