19900830HI - RADAR 30 1990

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

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

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

✓ 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.

E.5.3 Postflight

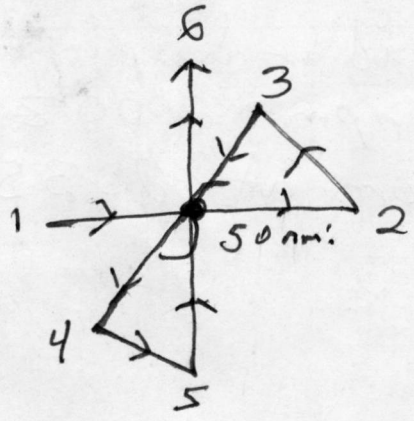
✓ 1. Complete the summary check lists and all other appropriate check lists and forms.

✓ 2. Brief the on-board LPS on equipment status and turn in completed forms to the LPS.

✓ 3. Hand-carry all radar tapes and arrange delivery as follows:
all tapes, including 28, 29 flights across from cloud physics
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 AOC flight director.] station

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

w/M 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

Doppler Radar Scientist Check List

Flight ID 900830H1 Gustav

Aircraft # NOAA 42

Operators M. Black

Radar Tech. Jim Roles

Number of digital magnetic tapes on board 14

Number of tape labels on board ~80

Component systems up and checked:

MARS	✓	Computer	✓
DMTR1	✓	DMTR2	✓
LF	✓	R/T#	121
TA	✓	R/T#	9320 on handle

Time correction between radar time and digital time _____

Radar Postflight Summary

Number of digital tapes used: DMTR1 1

DMTR2 2

Significant down time: none

DMTR 1 _____ Radar LF _____

DMTR 2 _____ Radar TA _____

Other problems: Tail radar display looked blocky changed to 9 rpm ~2000 Z, changed back to 10 rpm at ~2035 Z

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HRD Radar Down-Time Log

Operator M. Black Sheet 1 of 1

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem

Item List: DMTR1, DMTR2, COMP, MARS, LF, TA.

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Gustav

HRD Radar Tape Log

Flight 900830H1 Aircraft 42 Operator M. Black Sheet 1 of 1

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
D2T1	193307	201940	hdg North to west of eye, Fast 184240-195250 hdg ~~West~~ East across eye, in eye 2004, Fast 2016-2022
D1T1	201940	213514	Fast 205340-210600 2040 in eye, 2120 in eye, Fast 213015
D2T2	213514	215340	Fast 213514-215000 North of eye