1998092541-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

- 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.
- 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

- 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.
 - 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.

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Doppler Radar Scientist Check List

1

Flight ID:98092541	
Flight ID:	
Aircraft Number: <u>N43</u> RF	
Doppler Radar Operators:GAMAC4E	
Radar Technician: DUGRANRUT, GOL	DSTEIN
Number of digital magnetic tapes on board:	LEFT
Component Systems Status:	
MARS	Computer
DAT1	DAT2
LF	R/T Serial #
TA	R/T Serial #
Time correction between radar time and digital time:	AADAR IS THE USUAL 1/2SER. AHEAD OF FLIKITT LEVEL COMPUTER
Radar Postfli	ght Summary
Number of digital tapes used:	DAT1
	DAT2
Significant down time:	
DAT1	Radar LF
DAT2	Radar TA
Other Problems:	

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HRD Radar Tape Log

Flight 980925HI Aircraft N42RF Operator GAMACHE Sheet 1 of 1 TA RPM _____ LF RPM

(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
DITI	YES	103650	2100/1400
DITI	NO	152633	1600/1600 for VTD
DITI	YES	1536	GAJE OP DUE TONEED TO HUNT"
DII		1851	STOPPED RELORDING
	100.00		
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HRD Radar Tape Log

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Flight	a harring	_ Aircraft	Operator	Sheet of	2
			TA RPM		

(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
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HRD Radar Tape Log

Flight	Aircraft	Operator	Sheet of
LF RPM _		TA RPM	

(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
ape #			Event
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1.220.28			
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Operator GAUNCHE Flight ID 98092541 Sheet 1 of ____ Time Up Time Down Problem (HHMMSS) (HHMMSS) Item "LOST AZIMUTH DRIVE"ON TA TAILPHOTS 111400 BERON & SYSTEMLOCKUP LOCKUP 112400 1128 快 150900 RADAR FROZEUP RADAR BACKUP 151259 1624 TAIL RADAR STOPPED RECORDING TAL RADAK RES. BACK UP. 162830

HRD Radar Down-Time Log

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

Include serial numbers of any new R/Ts.

H- GEORLES H- GEORLES 1208110 04€ 48 HOURS LEEW ON THUS 2115 77 4.9 FULGITT HS ON LAST ture to NW along NYZKE FLIGHT enast-2349. 81.17 (preliminary) 9 1141 13/8 2124 77.15 eve 6 1141 23'50.8' 8116.9' (from nov.) 143,5, 2132 7720 eye eye 1144 Pretly wyly rodov poesentation 1440 - Chalma in EXE 1448 - holg Mru out bound For FL 13/642 24 8 8132 genited 980mb 1604 - land at Timpa Internation al! 6 24°08 8129 Another recco. formarau 1536 9 2415.9 8154.9 981mb morning ? 1420 9 2491 \$139'

1559 E pyewall 85 buts at 58 m N 112 45 25 900m 1657 24315 82080 #1254 2431.8 8226.5 ~980mb Highest winds ore hot in what they one in the for the rembind 70 of 80 nm out from center from SE to N Side,

994

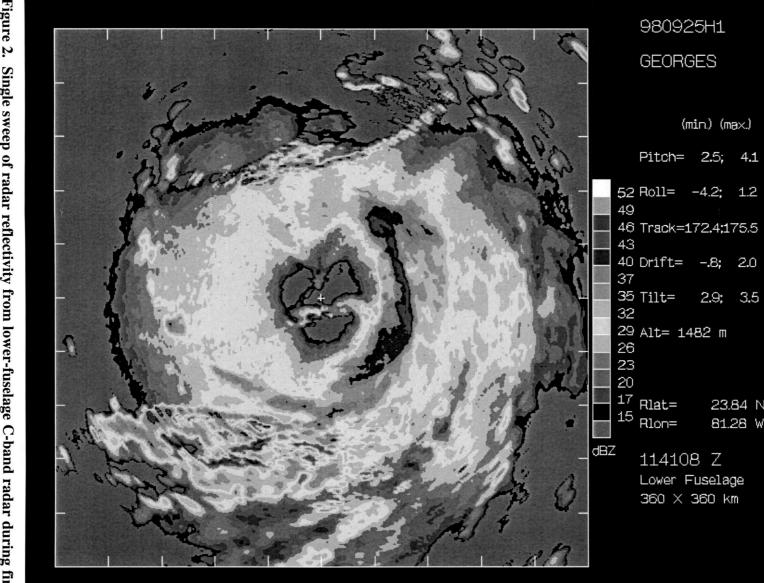


Figure 2. 2. Single sweep of radar reflectivity from lower-fuselage C-band radar during first fix of center at 1141 UTC. Note Cuba and Florida Keys in the radar return.

