19980923HA-RADAR ATTICANE Georges

### 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

 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.
- Select the operational mode for radar system(s) after consultation with the on-board LPS.

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

### E.5.2 In-Flight

- 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.
- 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.
- 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:
    - 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.]
  - 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.

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**Doppler Radar Scientist Check List** 

Flight ID:	
Aircraft Number:	
Doppler Radar Operators:	
Radar Technician:	
Number of digital magnetic tapes on board:	
Component Systems Status:	
MARS	Computer
DAT1	DAT2
LF	R/T Serial #
TA	R/T Serial #
Time correction between radar time and digital time:	ght Summary
Number of digital tapes used:	DAT1
	DAT2
Significant down time:	
DAT1	Radar LF
DAT2	Radar TA
Other Problems:	

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1

HRD Radar Tape Log

3

Flight <u>980933H1</u> Aircraft <u>12</u> Operator <u>M. Black</u> Sheet <u>1</u> of \_ LF RPM \_\_\_\_\_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)

т	ape #	F/AST On?	Event Time (HHMMSS)	Event
,	DI	*les	1004	Started recording
/	01	Yes	1010	Dual PRF
		·les	120414	eve 19°7' 73' 17' 996 mb
	1757	2	120431	drop 78182008 8, 15 EVE
	1001		133449	drop 981820028 = north 0
			1348	Rever Now on Walt
1	02		1403	Radar Up Anowinds
		Yes	141330	Prop # 3 981810806 WEUR
		nes	1435	Prop # 4 996 mb low reduct
6	22	Ves	143554	LF cmip #2 sent #29
	02		1505	Flying south of Haiti a long con
				west along lower peninsular
		Yes	150940	Rainband, Drogt 5 glong South Halt
		1		
		Yes	1638	19:21' 75.05 Drop
1	60	Ves	1818	Ful recording
			•	

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# HRD Radar Tape Log

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Flight	Aircraft	Operator	Sheet	_ of
LE BPM				

(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
	a starter		
	1 1 1		
1.12	. Salaria	and a	
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	Sec.		
	a la companya		
	740	e Sector de la compañía	
in a set			
		and the second	
	and a second		
			8

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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
1000 3	1.00		
and the second		est in	
1.80			
No.			
18			
1.10			
	++		

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# HRD Radar Down-Time Log

	·		
Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
			and the second
	-		
			A CARLES AND A CARLE
		SA4	and a second second second
	a sala sala		
an with	1999		
<u> </u>			
1	- C.4		
1. A. A.			

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

Include serial numbers of any new R/Ts.

N1828 1750.3 6458.5 183455 East your N30 nm. W. 've ken seeing some the very frurtwent Stuff ver e bo Lop on some of these bands 184332 1756 64° 0 Sonde 185723 18°3' 64 51 Sonde possed under some turkelit 103 93 1750 6504.5 190830 1733 6522 Sonder 191742 174 6542 Sonde 193853 1755 6511 gode 1939 9 17548 65.09.0 1945 13 1883 6511

8 Br

980923H Hurricque Georges Receondirrance 625 - Eric Uhlhorn Radac/Sonder M. Black Werstation P. Leichton 102 - takeo RE - 9 h From Djug-locka beorges emerging Forom west coast of Hultisafter transversing length Should be a minimal hurricare or strong troping 1 storm 1137 Fliping through strong convertive ramband NW of CRACT 1204 - eye? center 996m) poor radar presentation some bounding north strong bandson east, routh sider converging on coust Max Flight-level winds - 60 Kls SFC-40 Kts Crom sordes Storm moving WNW at 12ktic

C E SFE AVald 2 AN (S) < K K-bands Cell 995 mh last pass 18/8 - Stopped recording Londing 19:07 apalaty 42 scheduled for 07 7 takeo CE tomorrow morning portrel ugh

9809241+1 Georges Necco. LPS M. Black Rydar M. Black Nrops M. Black/ Paul Leishten Nortstation Paul Leighton UspR - Ivans Flight Wreetor - Star Courck TakeoPC Dpg-lock, 075948 scheduled to land at TPA Storm Porceast to be over east central Cuba during Flight, in which case Me WY Klyn constal forecast to be at 20,6 76,8 1152 0540 Outr. spinal band 1900 cells popping MID