19980826H1-RADAR

AUG 26 1998

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

- 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

- d4
- 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:
 - 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.

Doppler Radar Scientist Check List

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AUG 26 1998 900 001	1
Flight ID:	<u>+</u>
Aircraft Number: <u>42RF</u>	
Doppler Radar Operators:Mark	S
Radar Technician: Bavv	6
Number of digital magnetic tapes on board:	
Component Systems Status:	
MARS	Computer
DAT1	DAT2
LF	R/T Serial #
ТА	R/T Serial # 123/202
Time correction between radar time and digital tim	e:
	tflight Summary
	0
Number of digital tapes used:	DAT1
	DAT2
Significant down time:	N
DATI 17mm	Radar LF _ (Fan 64
DAT2	Radar TA

Other Problems:

à

HRD Radar Tape Log

AUG 25

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Flight 980826H Aircraft 42RF Operator Marks Sheet) ot _/_ - 17 LF RPM TA RPM

Tape #	F/AST On?	Event Time (HHMMSS)	Event
1	NO	102500	Smale PRF
	yes	110000	FIAST SOMM From First oute 152116 Vadar Sustem derry
	1		152116 vadar system dern
		152116	Tope rewound
2	YES	153847	TK SE alone inside edge of RB
	NO	161420	TK SSW to 6 801mi
	YES	165149	TKENE to pt SE JS SOM
		-	soude ANBT
	No	170500	TKNINW to g to LITX
			170701 TA down
			17076 TA9
			715 down/up
		1826	076

	AUG 2 6 1998		HRD Radar Tape Log		
Flight	980826H	Aircraft	42RF Operator	Marks Sheet 2 of	
		2		10	

Tape #	F/AST On?	Event Time (HHMMSS)	Event
	in the second	1. 25	
		a and the second second	
		la	
<u></u>			
			15 20 CH
a fille and a star	Ser Sta		
A			- A

HRD Radar Tape Log the Sheet 3 of Flight 980826 HAircraft 42RF Operator Mar 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
	1.1.1		· · · · · ·
<u></u>			
Sec. Sec.		and the second	
	1.2.1		
	Sec. Stars		
and the second		and the second second	a this is a start of the
	1.19		
	1.000		
		1. S. B. Barres	and the second
		and the second se	
		19 fe - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	A

AUG 26 1998

Marks

HRD Radar Down-Time Log

AUG 2 6 1998 Operator

Flight ID 9808267

下の時間

Sheet _ of

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
system	15216	153847	Problem system crash veboot
			/ /
	*		
		N	
- general -		and the second	
e de la composición d			
		1.1	
19.			
		10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	

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

Include serial numbers of any new R/Ts.

980824H1 Bonnie

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



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

- 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:
 - 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.

Doppler Radar Scientist Check List

	98082441	Bonnie
Flight ID:	10000411	Joonnie
Aircraft Number:		
Doppler Radar Op	erators: Frank Ma	ints
Radar Technician:	George Delgo	ado/ Jim Barr
	magnetic tapes on board:	2 boxes
Component System	ms Status:	,
MARS	\checkmark	Computer
DAT1		DAT2
LF	tod V A	R/T Serial # /03
TA A	03/100 125700 A	CR/T Serial # 123/201
IA	· /	
Time correction be	etween radar time and digital time:	S
and the second s		
	Radar Postfl	light Summary
Number of digital t	tapes used:	DAT1
		DAT2
Significant down ti	ime:	
DAT1	9 mg	Radar LFMin
DAT2 _	9 min	Radar TA <u>9 min</u>
Other Problems:	Radar system	froze twice (see douritme /6

Bonnie HRD Radar Tape Log Flight 980824H1 Aircraft 42 Operator F. Martis Sheet 1 of _____ ТА ВРМ _(О____

Tape #	F/AST On?	Event Time (HHMMSS)	Event
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		and and the second	
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	1		Я

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Bo	HRD Rad	ar Tape Log	
Flight <u>98082441</u>	Aircraft 42RF	Operator F. Marks	Sheet of
LF RPM	#2	TA RPM ノじ	

Tape #	F/AST On?	Event Time (HHMMSS)	Event HURR3
1	N	1857.00	dual PRF 2100/1400 0,375-4
	/		±31 m/s 71 kno may van
		and the second	1931 radardown vestant "
		Same gas	193339 on agam
	1.12	201720	switch to HURRI 1600 smale PRF
			start leg 100 nm NW gg. 5 ms
	N	202811	SECTO
	¥	210715	100 mm from 9 TK To (2)
	(up strong ramband
	N	213642	double rearles NE 8 5
	Y	233645	100mm Not 9 TK 325 to new (7)
	- Free	234115	Switch to dual PRF 2100/1400
- Carrier	a la ser en ser	and seater line	0,375 MS TK along oute
		and and	011518 radan system down 60
			3 tape off entiring rese
-	Y	012400	O12159 Tradan NE eyen
	1		FAST missed Eegenvall
		025405	J.
		and the second se	· ·

Bonnie HRD Radar Tape Log

Flight <u>980824H</u> Aircraft <u>42RF</u> Operator <u>F. Marks</u> Sheet of TA RPM ______ LF RPM _____

Tape #	F/AST On?	Event Time (HHMMSS)	Event
in the way	A Varia	Contraction of the second	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
	1.000		
<u></u>		and the second	
		State of the	
		Constant and the second	
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		and the second second	
		State of the second second	
		Charles Sta	and the second
		and the second second	
		and the strength of the second	
20.00			
		and the second	
-	a survey of	and have been a series of	have a second and a second a s
	and the strength of		
1			
1.000	Section and a	deer hander hand had been	An internet and the second
	1 10 200		
		and the second second	and the second of the second
	1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	·		
	1		
	34.		R

Page 3 of 3 HRD Radar Down-Time Log Operator <u>F. Marks</u> Flight ID <u>980824H1</u> Sheet of ____

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
System	1931	1933	veset system.
System	0115	0122	reset system reset/reboot mestedayen
			0
1			and the second
100	1.1		
		A. C. A. A.	
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<u>(</u>			
		0	
		and the second se	
<u></u>			
	1 A A		

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

Include serial numbers of any new R/Ts.

980826# Bonnie Landfall 100mm En 5 TO MacDill 82°30 F/AST and dual PRF Crew Barney Mailie Aberson 0046 kaoam NE.of centurin Leighton Kimberlain Wroe veal intense ramband lots of interesting near BB rephysics The = 0.6°C DOSD The 225 to 9 DOSD THE 225 to 9 What an up down combo TO 102000 no Qual-PRE Single PRE 1600 For 0.5 MS Virging fouch!!! 110000 F/AST SOM M fraulst 14 4 4 V ruda down in NE edge bege 1107 2 32 40" 78 10" TEAL Fix 11267 descend to 12kft. double ving eyewall structure S. 1 8 M. M. B.

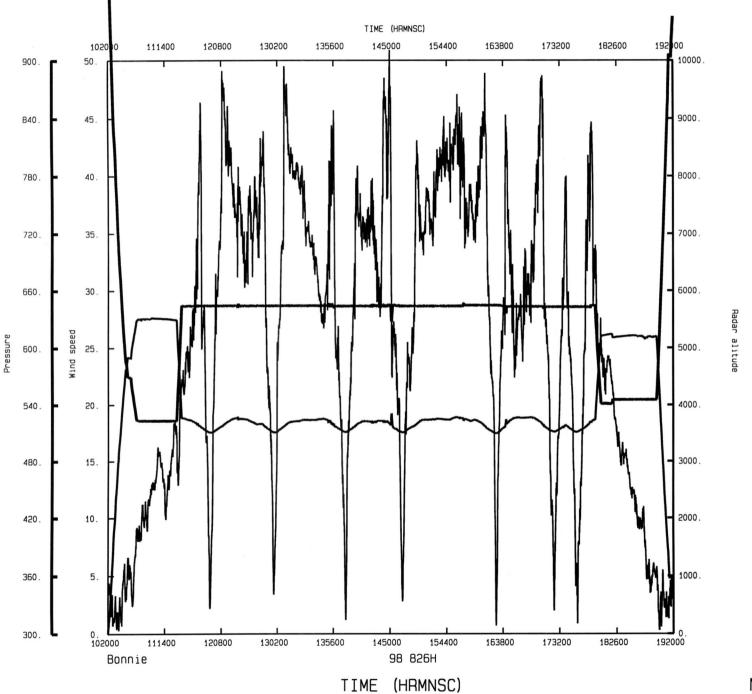
RVR7 both planes + graves 1251 Stengatu ŇS Coost Ince in verye very 32°34" 77°49.5" weak diffuse 1220 Jurn TK 320 75HM NE 77 So. 4" just inside major 5 Convective band Turn TK N to & 75mm 134630 124741 Turn TK 110 to eye from outer wall 32 59.9 77 54.2" 1408 M physics looking real good

152010 33.246' 7910.4" Tun TK upwind along WE rambands 43526 152116 radar system V Cart 1558 No 4 overheat shaldow drop soude along in' side edge of support 1600 100 1610 enque restas 1615 TK 210 to Stan 1621 144800 TURN TK N to 11 7744 28.90

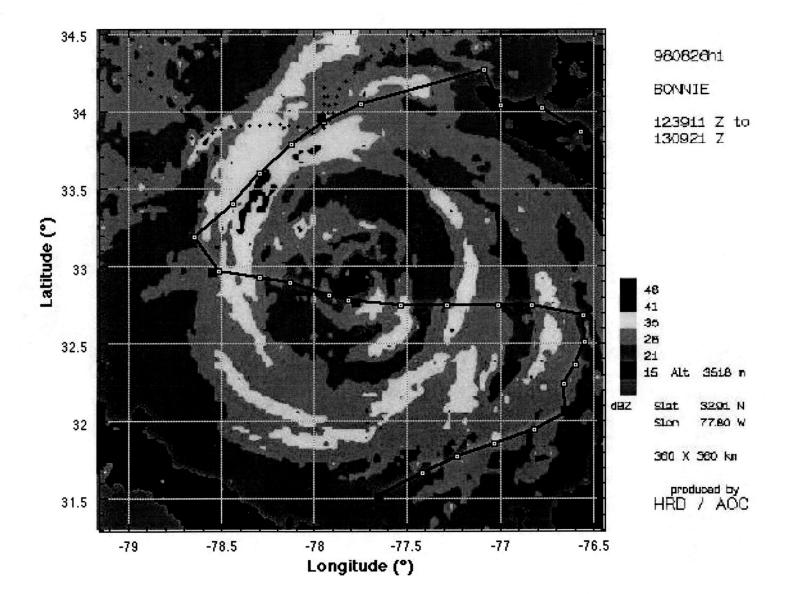
100 482F 33°16" 7753 1316 1650 end track outside outen eyewall quist 21" 77 52" 1707 continuous scaw TK to g good V J. 1 og for Mike V. 1 7 754" Willington eye can hacked 15mm bopelms DOW2 425" 7737" 15 mi NEA. Leg 1736 over KUX verense heading 174950 33 32,2 77 57,1 cP 96300 Jeal 23 TKSW thru Gwall to Macay good II leg for Mike 180715 end pattern head for the barn !!! Great Flight

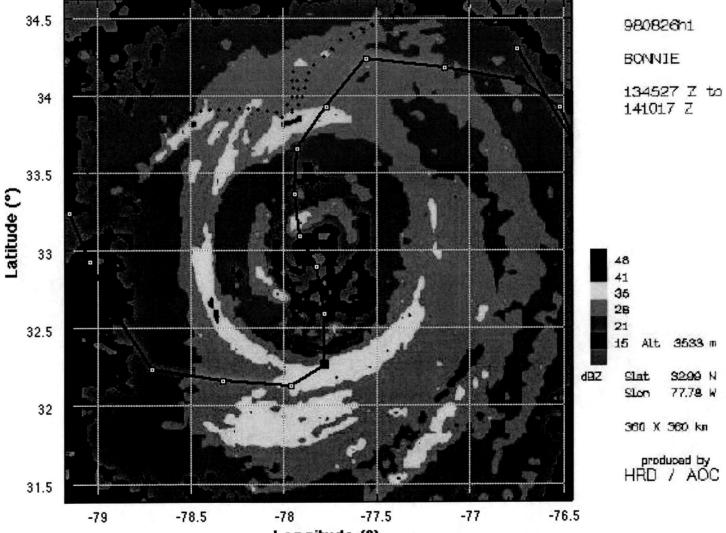
Sonde	Time	Latitude (°)	Longitude(°)	SST	Comment
1	12:20:50.00000	34.160	-76.600	28.500	
2	12:33:30.00000	33.960	-77.960	27.900	
3	12:49:46.00000	32.960	-78.550	28.000	
4	12:58:55.00000	32.766	-77.775	29.000	
5	13:09:26.00000	32.740	-76.900	28.100	
6	13:27:19.00000	32.067	-76.650	25.100	
7	13:45:59.00000	31.500	-77.650	27.500	
8	14:35:39.00000	32.551	-78.887		failure
9	14:50:00.00000	32.266	-77.780	28.800	
10	15:33:00.00000	34.100	-76.737		failure
11	16:20:30.00000	33.900	-77.500	27.100	
12	16:32:00.00000	33.100	-77.950	27.400	
13	16:41:00.00000	32.616	-78.150	28.300	
14	16:52:00.00000	31.967	-78.260	28.700	
15	17:07:45.00000	32.320	-77.088	26.700	
16	17:16:00.00000	32.816	-77.500		failure

AXBT Log



NOAA/HRD





Longitude (°)

