19981027II- 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						
4	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:					
		<ul> <li>a. Outside of Miami - to the HRD Field Ground Operations Center (FGOC).</li> <li>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.]</li> </ul>					
	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**

Flight ID: 981027 II	
Aircraft Number: N43RF	
Doppler Radar Operators: GAMACHE  Radar Technician: CRRY LYNCH	
Number of digital magnetic tapes on board:	
Component Systems Status:	
[10] [10] [10] [10] [10] [10] [10] [10]	Computer
MARS	DAT2
LF	R/T Serial #
TA	R/T Serial # 103  R/T Serial # 201 / 201
Time correction between radar time and digital time:	
Radar Postflig	ght Summary
Number of digital tapes used:	DAT1
	DAT2
Significant down time:	
DAT1	Radar LF
DAT2	Radar TA
Other Problems:	

#### HRD Radar Tape Log

Flight 98/027I/	Aircraft _	N43RF	Operator 6	AMACHT	Sheet of
LF RPM	2		TA RPM	(0	

(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
		1949	7/0
		191000	
/	YES		1600/1066 PA= FAST
2	48	204220	1600/1066
		211710	SINGLE ILVO PRI
	OFF	211905	VTD LEG 211920
			UTD END 2,4500
		215152	RAPAR DOWN
		215640	VTD LET BEGINS
	45	222030	221920 NID LEE ENDS
		222159	DOWN
		227700	BACKOR
	No		LEG 3 VTD 222900-225040
	YES	2251-	\$ DOWN WIND LEG
	No	225300	BEGIN LEG 4 UTD
	Eg	2319	END UTD LEG
No. 10	10	232040	DOWNWIND LEG
	NO	232855	BEGIN UTD LEGS
		2350	ENDOFUTD LEGS
	YES	2358	FURBOT TO PUT BACKIN

PAST

# HRD Radar Tape Log

			TA RPM
lude stai ipment s		times of DATs, a	s well as times of F/AST legs and any changes of
Гаре #	F/AST On?	Event Time (HHMMSS)	Event
		00 06 00	HEADED INBOUND LEGG
à .			HEADED (NBOUND) LEGG
(Ala)		013245	END RECORDING
		lant .	
	<b>†</b>		
	-		
	7.90		

# **HRD Radar Tape Log**

Flight		Aircraft	Operator	Sheet of
LF	RPM		TA RPM	
Include star equipment s	rt and end status)	times of DATs, as w	vell as times of F/AST legs	s and any changes of rada
Tape #	F/AST On?	Event Time (HHMMSS)	Eve	nt

## **HRD Radar Down-Time Log**

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
	202603	204118	RECORDING DOWN
			RESET RADAR SYS
	204240		
	2222	2227	DOWN Several res
	215156	215640	Down Several res Down to knight
			16
100			

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

Include serial numbers of any new R/Ts.

981027II Sing along with H. Mitch (Miller) Woo cats, now oppountly cat 4. 202330 GPS 2159 85 30 DROD TEAL 9 201603 RECORDING DEUN 2012 RADAR UP AFTER MANY LOMPUTER RESETS 7EAL 9 1645 8535 212858 Eywel dop 1654 5546 1641 8535 CPA 2133 Dup (eye) 213635 1631 8524 200 CPS

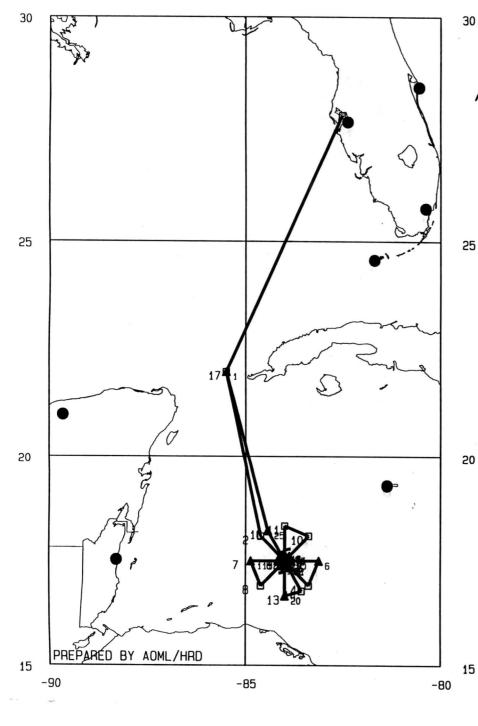
1624 85 17 sywell GPS 213915 215156 RADAR DOWN ON FUBBUND PASS 256 to RECEPTING VIDUES Gest. 1638 8535 ZZIGTO END VTDLEY 222758 BT REL 16012 8616 TRY 222900 FOLNIDUEG 3 LOTS OF MAEUVERING BTREL 2240 30 1639 8534 6 v 22 1638 8535 2250 to END VIDLEG 3 225800 BEGINVIDLEGY 2305 D. Br drop shound to 1°C out he in Carbbers N-S pass should very turbabut

232855 REGIN VIDURT 16 34 85 35 (2 3 40 OTC) 2349 ON NW Scle That report a pour was a N 2350 and of VTD log 5



-85

-80



FLIGHT TRACKS
MITCH

NOAP 43

981027i.ftk

Teg | 27 1000 mg to NW - 2/2

## RAWINSONDES 9809

- Regular
- 25 12Z only
  - 00Z only
  - Infrequent
  - Infrequent 00Z
  - Infrequent 12Z

▲ DROP LOCATIONS