19980823+11-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



 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



1. 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).
- 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).
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 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

20	
Flight ID: 98 0823 H	
Aircraft Number: 42RF	
Doppler Radar Operators: Marks Br	acleen
Radar Technician: Bay v	
Number of digital magnetic tapes on board:	5
Component Systems Status:	A
MARS	Computer
DAT1	DAT2
LF	R/T Serial #
TA	R/T Serial # 123/20/
Time correction between radar time and digital time:	ht Summary
Number of digital tapes used:	DAT1
Significant down time:	
DATI 21 min	Radar LF 21 min
DAT2	Radar TA 21 min
Other Problems: radar system &	dent low 3
times. All three t	rmes it was
restarted without	it Change ton
restanted without 23 1821_	1833 no loss elpha
1936 -	1940 end of 1st downward
201	2026 00 6 - 2 1 1 - 6

HRD Radar Tape Log

Flight 98 08 23 H	Aircraft 42RF	Operator Marks		_ Sheet of	
LF RPM	2		TA RPM	10	e e e e e e e e e e e e e e e e e e e

(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	NO	175400	Qual PRF 2100/1400 0,3750
-51			182104 radar down resetting
			183003 stop tape at O
			183306 on tape system up
	yes	191946	FAST Coming upon outer ban
inge je		1	Onm Ste of 6
			193606 valar system down
	NO		194046 up
	.00		202059 vader sys down
			202447 tempe of
			2026 35 tape on radarup
	Yes	202737	FAST on dorining leg
	NO	203610	Tun The 030 to g John swy
	Yes	205835	FAST SOUM NOVE of S
	NO	210530	50 nm Not & Twatk 180
	Yes	212710	FAST SOUMS OF FRY outer Go
	No	21435	50 nm E 07 G TK 270
		220730	dual PRF afferend of & patter
	1		2100/140 0.375 us puls
	100	280840	4 TA Off Not Cuba

232934 TA off Not Cuba 023140 endtage

HRD Radar Down-Time Log

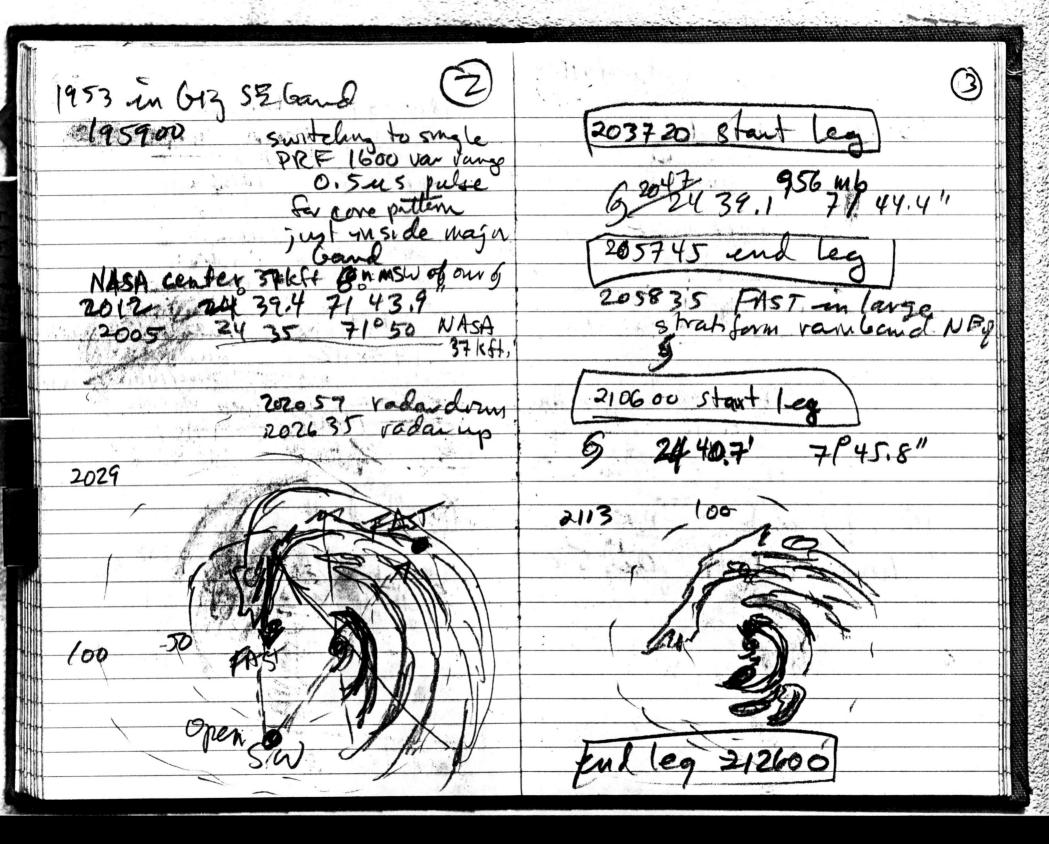
rator	1		80823 H Sheet of
Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
system	182108	183306	restanted DSP
	193606	194046	7
System	202059	183306	11
	ne per primi		
21.0			
		N-	

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

Include serial numbers of any new R/Ts.



Bonnie 980823 H 3-plane synoptiz flow with two Fig. 4 in 5 2RF crew: P. Block M. Black Brachen Leighton Maries 17° 42." N 64° 47.62 the day it. TO St Croix dual PRF 200/1400 outsto Of core 173842 19946 1995 150 14



TA reflectivity strill >104 214110 Start Leg 214820 tre 6.9 bump 6 2159 24 42,7" 719 45,9" rozsoend leg 270730 switch back to lual PRF 2100/1400 and, FAST 232934 TA Off No Gaba 023140 land MacDill 02552