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	Prefligh	
1	_ 1.	Determine the status of equipment and report results to the on-board lead project scientist (LPS).
1	2.	Confirm mission and pattern selection from the on-board LPS.
- Ju	3.	Select the operational mode for radar system(s) after consultation with the on-board LPS.
20	△ 4.	Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.
E.5.2	In-Fligh	ıt.
- Fre	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.
E.5.3	Postflig	ht
Su	1.	Complete the summary check lists and all other appropriate check lists and forms.
M	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 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 (EGOC or MGOC) as to where you can be contacted.

Doppler Radar Scientist Check List

	Flight ID 4808	21 H
	Aircraft # 42R	F
	44 1	1 Bracken
	Operators	Bracien
	Radar Tech.	V .
Numbe	r of digital magnetic tapes on boa	rd <u>>0</u>
Numbe	r of tape labels on board	710
Compo	nent systems up and checked:	
	MARS1	Computer
	DMTR11	DMTR2
	LF <u>9</u>	R/T#
	TA	B/T# 123/201
Time c	orrection between radar time and	digital time
	Radar Postfi	ight Summary
Numbe		ight Summary DMTR1
Numbe	Radar Postfling of digital tapes used:	1
		DMTR1
	er of digital tapes used: eant down time:	DMTR1
	er of digital tapes used: eant down time: DMTR 1 7 m m	DMTR1 DMTR2 Radar LF
	er of digital tapes used: eant down time:	DMTR1 DMTR2
Signific	or of digital tapes used: eant down time: DMTR 1	DMTR1 DMTR2 Radar LF Radar TA Tuin
Signific	or of digital tapes used: eant down time: DMTR 1	DMTR1 DMTR2 Radar LF Radar TA Tuin
Signific	or of digital tapes used: eant down time: DMTR 1	DMTR1 DMTR2 Radar LF Radar TA Tuin
Signific	or of digital tapes used: eant down time: DMTR 1	DMTR1 DMTR2 Radar LF Radar TA Tuin
Signific	er of digital tapes used: eant down time: DMTR 1	DMTR1 DMTR2 Radar LF 7 m in Radar TA 7 m in Aoun fa 7 m in 45 Sw of 6 at begining
Signific	er of digital tapes used: eant down time: DMTR 1	DMTR1 DMTR2 Radar LF Radar TA Tuin

Form	E	-5	
Page	3	of	3

HRD Radar Down-Time Log

		980821 H,	,
Operator	Marks	Sheet/	of/

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
System	203803	204515	radar 595 tem restanted No tape change.
•			no tape change.
	25.25.2		

Item List: DMTR1, DMTR2, COMP, MARS, LF, TA.

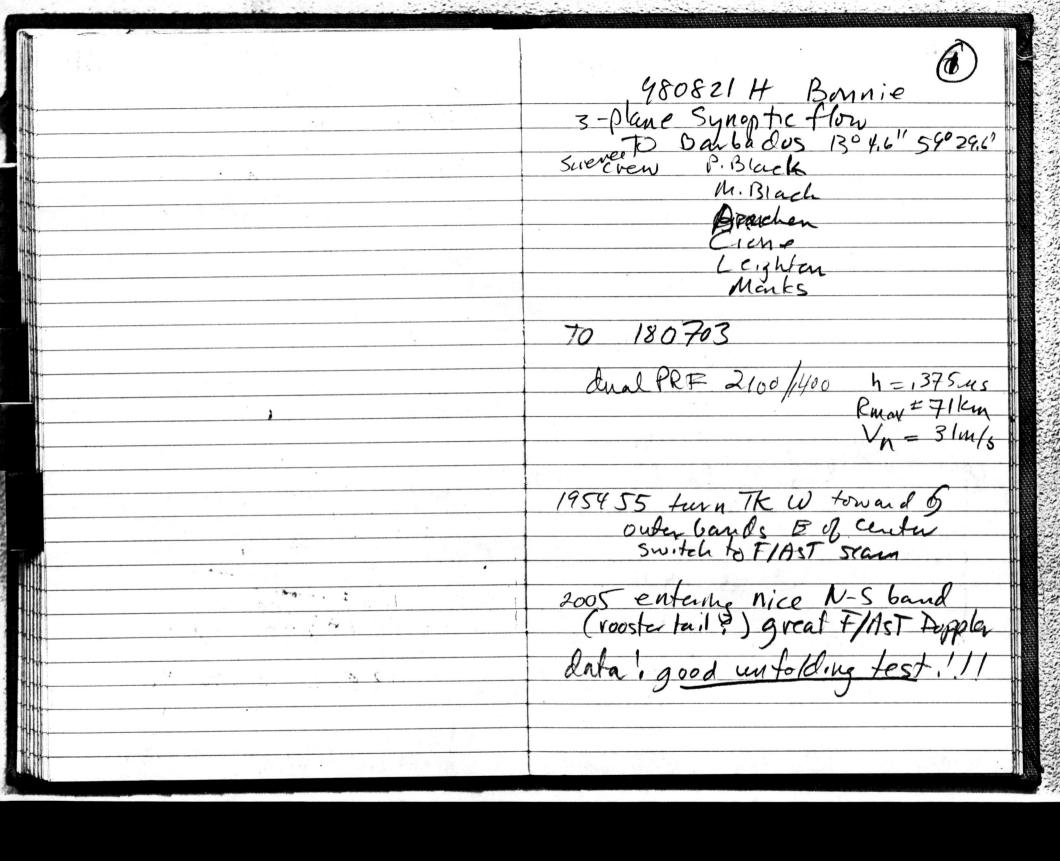
WX02 A BONNIE

Form E-5 Page 2 of 3

HRD Radar Tape Log

Flight 980821H Aircraft 42RF Operator Maulcs Sheet of

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
1	181635		dual-PRF 2100/1400
			continous made pulse width 1375
			, max vanget
	195455		F/AST town W +of Ways == 3/m
			203803 Vakandows V
			204515 radar 1
	204900		50 Nm SFE of 61 Switch to continu
	2108 45		FASTS NW 0, 6
	212400		50NM SW of Go Switch to contr.
	214600		50 mm NE of & FAST twn 1



00 2101 Some speckeling new wind max at viripping 210800 end leg 2005 Somm switch to FAST 50 NM MW95 SE-NW/SWA 2046 Orient fig Seams ~ 10dB tola aisplan compared to LF Bonn precip 50nm TWA TK 045

flight level 20,91 66.93 getting 212400 985 mg Splash hear 6 212847 real good rain corps in 61900 215930 extending up 16 km tops 1 m So Goky vam dan 2150 - 2201 rightalte 22050 Clark to 20 Kft