# 19930831H1\_RADAR

AUG 3 1 1993

#### 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

- 2.
  - 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.

## 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.

## 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 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).
  - 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       J308         Aircraft #       M42K         Operators       M42K         Radar Tech.       Date         Number of digital magnetic tapes on board       MARS         Number of tape labels on board       MARS         DMTR1       LF         TA       MARS	$\frac{3141}{F}$ $\frac{F}{Bret Chaster}$ $\frac{Bret Chaster}{Bret Chaster}$ $\frac{1}{24} \frac{Boxes}{Boxes}$ $\frac{1}{500000000000000000000000000000000000$			
Time correction between radar time and digital time				
Radar Postfl	ight Summary			
Number of digital tapes used:	DMTR1 DMTR2			
Significant down time:				
	) Dedaul E			
DMTR 1	Radar LF			
DMTR 2	Radar TA			
Other problems:				

Try F/A Sector AUG 3 1 1993 Form E-5 Page 2 of 3 HRD Radar Tape Log Sec wid 3/5 Emily II Flight <u>9308314</u> Aircraft <u>N42RF</u> Operator <u>M.Black</u> Sheet\_of\_

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments	]
DITI	16 5050	174725	Hdy to 5 1709 descent to 3000 F#	
DZTI	174725	182440	~ 1800,183732 FJA	
DITZ	182440	190310	190500 Turn off FA	1952
DRTZ	190310	193910	eye 19262, 1953 17/A	Concentric
DIF3	193910	203027	1953 F/A, 200135 FA of 200445 &	Elewal)
DZT3	203027	211830	Cost TA 202621, 203209 Cye	T20 DUPTA
DITY	2/1830	220510	212846 cont, 21572 eye	2032 57
DZTY	220510	224340	2233, experimenting ul/Fast	210202 F/A
DITS	224340		F/A-off 224630, 2307 eye	TPA
		2330	2307 F/A sector circle in eye	
0275	2330		Fra sector circle anothe	
			Asending 00:112	- Marine S
2. 97			1	-
				-
				-
				-
				-
	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	é.		-
				-
See See 1		94-12 8-8-8	<u>``</u>	

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HRD Radar Down-Time Log

Operator Millack bet Sheet f of \_\_\_\_\_

			1=19
Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
Poygler	looks a	a 1341	eoff +2mls on
right	-21	n/s or	h reft
779	2026	2032	Heavy turbulence in every
	1.		
		1	
	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		
		1996	
	1999		

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

930831H Emily I 1993 Lantall mission Heading to Hatteras UPS - Pete Black (Mr. AKB) Radge- M. Black, Bret Christi Scatterometer - Andy Paylor Emili yas 105 mph 965 ml 110 miles SE of HAT Will do several overflights over Buoys 3000 Ft pressure AlAtude maybe 1500 EL 1709 ducent to 3000RL Exe 375 Km away 1800 in eje 40-50 miles Huge eje 40-50 miles 130+ Ats 966 mb Write exervell on north side

1926 140 the west side of eye east side low reflect with put nost turky lent =1952 Concentric eyewall? Aner eye has contracted From 40-50 nm: diameter to 30 nm: Refinetally conceptible evenuells dropping ~ (mb/hr Good bumps all quadrants especially north evenil Bret queaky but no bags 2300 heading for last eye fig will try FIA sector of exewall Hybrig inside of eye !

West eyenall wy jootto Hope Peter Podge + Co Emily turned to an interesting storm See Yah