## E.5 Radar Scientist

The on-board radar scientist is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and checklists are contained in the operator's manual supplied to each operator. General supplementary procedures follow. (Check off and initial.)

## 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.
- 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.

## In-Flight

Operate the system(s) as specified in the operator's manual and as directed by the onboard 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.

## 3 / Post flight

- Complete the summary checklists 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 LPS.
  - 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.]

Debrief at MGOC or the hotel during a deployment.

Determine the status of future missions and notify MGOC as to where you can be contacted.

Flight ID: 0808/5H/	
Aircraft Number: N42 RF	
Radar Operators: Leish Kon	
Radar Technician: RIPECK	
< L	
Number of digital magnetic tapes on board:	
Component Systems Status:	
MARSComputer	
DAT1DAT2	
LF	
9	
TA R/T Serial # #201	
Time correction between radar time and digital time:	
Radar Post flight Summary	
umber of digital tapes used: DAT1	
DAT2	
ignificant down time:	
DAT1 Radar LF TASCS	
DAT2 Radar TA	
ther Problems:	
Shirley Gave me a hard time,	

**HRD Radar Scientist Check List** 

06DDA WAVE pre-fign

Form E-5 Page 2 of 3

HRD Radar Tape Log	,
Flight O808154/ Aircraft 42r Foperator Legulo - Sheet	_ of
LF RPM TA RPM (O	

(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	
			looking for centre 18:47 m 6	7 42 mi
		1456	Talesoff	>
		1505	Reder Records	
			J	
Marie de				
		2123	Stop becaring	
			A P	2
1-1-1-1		1652	Istor beg 1	
		1715	center RASS / ent les total	eg 2(2)
		1742	end Pay 1 stort downwind (	3 3
		1800	start Pass 2	0 11
		1822	centr Pass 2	(9) How though
		1848	ent from 2 5tet down	Olay at to
		1859	Fit Dess 3	2017/5
		1926	center PRSS 3	8 " 7
		1943	end Pass 3	(9) psto
				- ~~
			Conscetin Cell pattern (	10(12(3)
			V	
			and the second s	THE RESERVE

WANK MGZ - PTSFAY

9838 5050

FLIGHT ID:			Doppler Wind parameters  Scientist: P. Leighton. &  S. MUCILLO											
The second second	Time	Time	Storm Mo	otion	Time (Center)	Ctr. Lat. (Deg/Min)	Ctr. Long.		Hor. Res 3/4/5	Vert. Res.		Out Azm.	ja?	Sent (Y/N)
5	1652	742	215	13	1715						312	10		4
1	1800	1848	210		1429	19/0	68/20				IZS	105		4
	1859	1950	218	)12	1930	18/20	68/30				225	235		4
E	1905	1945	270	12	1926	18/20	68/30				225	235		/
						/								