	Radar Scientist
	Radar Scientist LorSolo
	oard radar scientist is responsible for data collection from all radar systems
	signed aircraft. Detailed operational procedures and checklists are contained
	tor's manual supplied to each operator. General supplementary procedures
follow. (Che	ck off or initial.)
Preflight	
	Determine the status of equipment and report results to the lead project scientist
	(LPS).
	(El o).
2.	Confirm mission and pattern selection from the LPS.
1	
2. 3.	Select the operational mode for radar system(s) after consultation with the LPS.
4.	Complete the appropriate preflight calibrations and check lists as specified in the
	radar operator's manual.
In-Flight	
1.	
1.	Operate the system(s) as specified in the operator's manual and as directed by the
	LPS or as required for aircraft safety as determined by the AOC flight director or aircraft commander.
2.	ancian communicer.
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.
T	
Post flight	
1.	Complete the summary checklists and all other appropriate forms.
	complete the summary encekness and an other appropriate forms.
2.	Brief the 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.]
4.	Debrief at MGOC or the hotel during a deployment.
5.	Determine the status of future missions and notify MGOC as to where you can be
	contacted.

## HRD Radar Scientist Check List

Flight ID:088	324II	
Aircraft Number: _	43	
Fadar Operators:	LORSOLO	
Radar Technician: _	FLYNCH	
Number of digital n	nagnetic tapes on board:	
Component Systems Status		
MARS	Computer	
DAT1	_ DAT2	
LF	R/T Serial #	
TA	R/T Serial #	
Time contaction between ra	dar time and digital time:	
Radar Post	flight Summary	
Number of digital tapes used: DAT1		
DAT2		
lignificant down time:		
DAT1	Radar LF	
Radar Technician:  Number of digital magnetic tapes on board:  Number of digital magnetic tapes on board:  Component Systems Status:  MARS Computer  DAT1 DAT2  LF R/T Serial #  TA R/T Serial #  Time co. oction between radar time and digital time:  Radar Post flight Summary  Sumber of digital tapes used: DAT1  DAT2  dignificant down time:  DAT1 Radar LF  DAT2 Radar TA  Other Problems:		
Other Problems:		

## **HRD Radar Event Log**

Flight OROG 24I	Aircraft 43	Operator ONSOLO Sheet of 1
LF RPM	10	TA RPM

(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
		075900	Talmolf Fing 7:59 Z
	Y		PRF 2100 Hz Single
		0805	START RECORDING
			Stopped @ 090600 TLF
			Restorted @ 030330 FA
		110605	Start Reg (derpende Remoted)
		11/152	"Center"tim ( flying in clear air Varoge
		114153	
		St. Marine Land	Ho les
			center @ 17° 25.7 N
			71°21.6 W
			End leg I dia soude !
		120930	0 17.47
			-69.0
		12/7/5	Start leg @ 1854 -68.04
		1409	END RECEDING
		1600	landing Time

	GHT ID.	HT ID: Doppler Wind parameters Scientist: .												
				Time (Center)		Ctr. Long. (Deg/Min)	Radius 66/88/110	Hor. Res 3/4/5						Sent (Y/N)
5	120330	10	0	114153	A° 20.2	-71-021.6	110	5						
25	1259	0	0	124145	0°31.8'	63° 37.8"	110	5	0-5	335/313				
				,										
	g)	120930	g) (End Leg) Degrees	g) (End Leg) Degrees Knots	g) (End Leg) Degrees Knots (Center)  17.0930  11.4153  2T 1259  1.4153	g) (End Leg) Degrees Knots (Center) (Deg/Min)  25 17 03 30 0 0 11415 3 0 25 25  27 12 5 9 0 0 2414 5 0 31.8	g) (End Leg) Degrees Knots (Center) (Deg/Min) (Deg/Min)  17 17 21.6  17 1259	g) (End Leg) Degrees Knots (Center) (Deg/Min) (Deg/Min) 66/88/110  25 12 09 30 0 14/153	g) (End Leg) Degrees Knots (Center) (Deg/Min) (Deg/Min) 66/88/110 3/4/5  17 0330 - 0	g) (End Leg) Degrees Knots (Center) (Deg/Min) (Deg/Min) 66/88/110 3/4/5 0.5  17 0330 -	g) (End Leg) Degrees Knots (Center) (Deg/Min) (Deg/Min) 66/88/110 3/4/5 0.5 (In/Out) 0.5 12 0.5 (10/0ut) 0.5 0.5 (	9) (End Leg) Degrees Knots (Center) (Deg/Min) (Deg/Min) 86/88/110 3/4/5 0.5 (In/Out) Trk.+/-180 15 12 0330 - 9	9) (End Leg) Degrees Knots (Center) (Deg/Min) (Deg/Min) 66/88/110 3/4/5 0.5 (In/Out) Trk.4/-180 (track out) 1/5 12.0130 -0 144/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 15.21 R° 24.6 110 5 0.7 106/90 114/53 R° 24.6 114/53 R°	9) (End Leg) Degrees Knots (Center) (Deg/Min) (Deg/Min) 86/88/110 3/4/5 0.5 (In/Out) Trk.+/-180 (track out) HTS  12 03 30