Radar Scientist

Flight ID ⟨0805254⟩ **Storm** ⟨09 IIA Kyle⟩ **Radar Scientist** ⟨Aberson⟩

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 or initial.)

Preflight

_____ 1.   Determine the status of equipment and report results to the lead project scientist (LPS).

_____ 2.   Confirm mission and pattern selection from the LPS.

_____ 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.   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.   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.

Post flight

_____ 1.   Complete the summary checklists and all 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: _080925H_

Aircraft Number: _42_

Radar Operators: _Rdes_

Radar Technician: _____

Number of digital magnetic tapes on board: _____

Component Systems Status:

MARS _____ Computer _____

DAT1_____ DAT2 _____

LF _____ R/T Serial # _____

TA _____ R/T Serial #_____

Time correction between radar time and digital time: _10 s_

Radar Post flight Summary

Number of digital tapes used: DAT1 _____

DAT2 _____

Significant down time:

DAT1 _____ Radar LF_____

DAT2 _____ Radar TA _____

Other Problems:

HRD Radar Event Log

Flight **08092SH** Aircraft **42** Operator **Roles** Sheet **1** of ____

LF RPM ____✕____ 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
		21:54	Radar on
		22:02	start taping
		22:53	IP (start leg #1)
		23:18	center sonde drop
		23:37	end leg
		00:11	start leg 2
		00:33	center
		00:34	center from radar tape failed
			(in wrong directory)
		01:03	restarted radar capture
		01:14	deleted radar.dat
			restarted radar capture
			unable to create analysis
		03:09	start leg #3 (AL 94)
		03:44	end leg #3

HRD Radar Event Log

Flight O80985H **Aircraft** 42 **Operator** Roles **Sheet** 1 **of** ___

LF RPM _____ 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

Add printer !

FLIGHT ID: 080925 H — Doppler Wind parameters — Scientist: Aberson

Time (Start leg)	Time (End Leg)	Storm Motion Degrees	Storm Motion Knots	Time (Center)	Ctr. Lat. (Deg/Min)	Ctr. Long. (Deg/Min)	Radius 66/88/110	Hor. Res 3/4/5	Vert. Res. 0.5	Track (In/Out)	In Azm. Trk.+/-180	Out Azm. (track out)	ja? H/TS	Sent (Y/N)
22:53	23:37	017°	14	23:18	2406	68.02					20°	45°	TS	Y
00:11	00:47	20°	10	00:33							315°	315°	N	N
27:09	03:44	300	6	03:37	33:34	79.02					240°	240°	TS	Y