

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 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: 060829H1

Aircraft Number: 42rf

Radar Operators: P. Leighton

Radar Technician: S. Mcmillan

Number of digital magnetic tapes on board: _____

Component Systems Status:

MARS up Computer up

DAT1 up DAT2 up

LF up R/T Serial # 121

TA up R/T Serial # 123

Time correction between radar time and digital time: 0

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 060829N1 Aircraft 1/2 Operator Leighton Sheet 1 of

LF RPM 2 TA RPM 10

(Include start and end times of DATs, as well as times of F/AST legs and any changes of radar equipment status)

[illegible]

Flight 060829M Aircraft 42 Operator Leigh Sheet 1 of
 LF RPM 2 TA RPM 10

(Include start and end times of DATs, as well as times of F/AST legs and any changes of radar equipment status)

[illegible]

296 9kts

S S

FLIGHT ID:

06082941

Doppler Wind parameters

Scientist:

P. Leighton

Time	Time	Storm Motion		Time	Ctr. Lat.	Ctr. Long.	Radius	Hor. Res	Vert. Res.	Track	In Azm.	Out Azm.	ja?	Sent
(Start leg)	(End Leg)	Degrees	Knots	(Center)	(Deg/Min)	(Deg/Min)	66/88/110	3/4/5	0.5	(In/Out)	Trk.+/-180	(track out)	H/TS	(Y/N)
11:05		330	10											
11:12	11:52	296	9	11:32	22 43	79 09	110	S	(1.5)	115 295	295 #5	115	TS angle	Y
12:25	13:05	296	9	12:45	22 45	79 10	110	S	(1.5)	235	55	355	X	N
¹⁵⁴² 1548	1628	296	9	1608	23 29	79 25	110	S	(1.5)	120		300	TS	?
1636	1716	310	9	1657	23 31	79 25	110	S		270		90	TS	?

1542

315 S

260 959 85X

110

S

S

300

120

300

1552

1558

1604

2325 7925

56.34

060

240

60

145
330

150

330