JUAN P. Chang NESDIS Flight

Radar Scientist I040913H1

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).

___ 2. 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

___ 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.

___ 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 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 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.

~~KW~~ WX09A IVAN

HRD Radar Scientist Check List

Flight ID: I0409 13 H1

Aircraft Number: N42RF

Radar Operators: P. Leighton

Radar Technician: R. McPeek

Number of digital magnetic tapes on board: Nil.

Component Systems Status:

MARS up Computer up

DAT1 up DAT2 up

LF up R/T Serial # 121

TA up R/T Serial # Tx 103 / Rx 201

Time correction between radar time and digital time: _____

Radar Post flight Summary

Number of digital tapes used: DAT1 1

DAT2 _____

Significant down time:

DAT1 5min 1604-1814 Radar LF _____

DAT2 _____ Radar TA _____

Other Problems:

None

HRD Radar Down-Time Log

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Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
		164100	up FAST TA
	180900	181414	System Restarted

Item List: DAT1, DAT2, COMP, MARS, LF, and TA.

Include serial numbers of any new R/Ts.

HRD Radar Event Log

Flight I040913H1 **Aircraft** 43rf **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)

Tape #	F/AST On?	Event Time (HHMMSS)	Event
		162500	TO
		1628	TA up LF up
		1633	restart
		1634	up
1	FAST	1641	up Intn Radars TA 2400 single Rec Spectrum Cal at 258 for Ice
		1756	IP
		1809	~~Down~~ LF & TA
		18 14:14	up LF & TA
		21:30:00	Radar off mid Gulf
			transit to
		2215	land