0208A INGRID

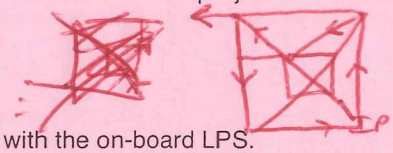
E.5 Radar Scientist

032130 TO 032BO

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.)

E.5.1 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.

E.5.2 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.

E.5.3 Post flight

___ 1. Complete the summary checklists and all other appropriate check lists and forms.

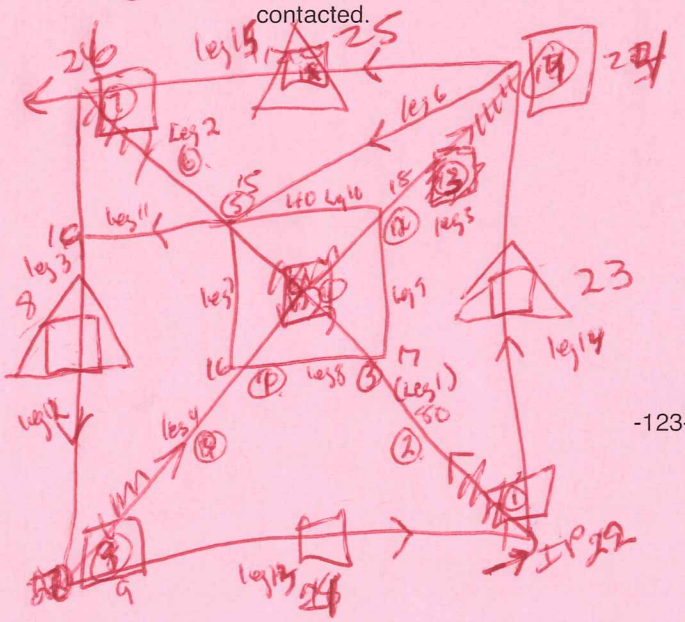
___ 2. Brief the on-board LPS on equipment status and turn in completed forms to the LPS.

___ 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.



= no wedge

15.1 49.4 @ 12Z

HRD Radar Scientist Check List TS

Flight ID: 07091441 Ingrid

Aircraft Number: 42

Radar Operators: Leighton / Peek / Flaherty

Radar Technician: Peek

Number of digital magnetic tapes on board: ?

Component Systems Status:

MARS ✓ Computer ✓

DAT1 ✓ DAT2 ✓

LF ✓ R/T Serial # 121

TA ✓ R/T Serial # TR2 R 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 _____ Radar LF _____

DAT2 _____ Radar TA _____

Other Problems: No known

run_lfasd[3]: /users/joe/lfasd/: not found

Form E-5
Page 3 of 3

HRD Radar Down-Time Log

Flight 070914H1 Aircraft 42 Operator Legacy/Rock Sheet 1 of ___
TO: 072130

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
0	073245	073245	start recording
		0755	Reset radar processor
		0925	start Hyper
		0938	Sector mode on
		0950	turn to IP
		0952	wedge off
		0955	wedge on
		?	wedge off
		1018	wedge on
		1317	Reset
		1531	End Radar Recording

Not relevant

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

Include serial numbers of any new R/Ts.

a1 N1420.6 W048, 03.7

0925 → 0945

15,01 W 09715

Form E-5
Page 2 of 3

Plan

HRD Radar Tape Log

Flight 07091441 Aircraft 42 Operator Lightning Sheet 1 of 1

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
			27.7
27.7	✓	095230	1 BT S IP turn to NW
		100217	2 S
		100655	3 S
		101717	4 BT S
		102215	5 S
		102815	6 S
	27	103849	7 BT S turn to S
		105355	8 BT only
	37	111020	9 BT S Turn to ~~N~~ E
→		11 21 00	10 S 1128 extrasonde in high Rain
		11 26 30	11 S
	41	11 35 09	12a S center 15,04 49,~~42~~ 0
		11 40 15	13 S
		11 46 15	14 S ~~BT S~~ turn to WSW
		~~11 56 12~~	15 BT turn to S
			16 turn to E
			17 turn to N
			18 ~~BT~~ only turn to W
			19 turn to S
			20 turn to E
			21 BT only
			22 turn to N
			23 BT only
			24 turn to W
			25 BT only

1404 48 16.9

1561 4935
1509 49,56

TO 072130

FLIGHT ID: 15x/ 070924H1 — Doppler Wind parameters — **Scientist:** P. Leighton

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)
~~0957~~	1037	300	5	101717	15 6.1	49,35.	88	—	—	~315			✓	✓
11 ~~17~~	~~1143~~	249		113519	15 04	49 34.4		—	—	45			✓	✓