Radar Scientist

Flight ID	Storm Name Trene
Radar Scien	tist Reason Radar Technician Nacher
on his/her as	oard radar scientist is responsible for data collection from all radar systems signed aircraft. Detailed operational procedures and checklists are contained or's manual. 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.	Remind the AOC data technician to start the radar capture files.
2.	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.
3.	Maintain the Radar Scientist's form as well as 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.	Obtain from the AOC data technician all radar tapes and give him a thumbnail drive to download the radar capture files.
3.	Brief the LPS on equipment status and turn in completed forms, the thumbnail drive, and all radar tapes to the LPS. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
	Debrief at the base of operations.
5.	Determine the status of future missions and notify MGOC as to where you can be contacted.

HRD Radar Scientist Check List

Flight ID: 10824H1

Rada	r Operators: _	Keasor		
Rada	r Technician:	Nache	_	s talked non-
Num	ber of DAT ta	pes on board	l:	- romado agun
Component Systems				
Device	Pre-flight	In-flight	Post-flight	R/T Serial #
Radar Computer	7	1	miles and a final	
DAT drives	1	1	ingge adversion	
Lower Fuselage antenna	7	1		
Tail Antenna	-	1		
Time correc		adar time an	d digital time: _	
Number of DAT tapes used	i:	a management and		
Significant down time:				
Radar Computer	ides.	Rad	ar LF	WHO .
DAT drives	o at few line 2	Rac	lar TA	SHEET TO THE
Other Problems:				

HRD Radar Event Log

Flight ID <u>\</u> Radar Scien	0824H1 ntist <u>Re</u>	Storm Name	Trene Radar Techn	Sheet of
	LF RPM	1	TA RPM	10
(Include start	and end times of	recording as well as tir	mes of F/AST legs and	any changes of radar equipment status)
Tape #	F/AST	Event Time		Event

Tape #	F/AST On?	Event Time (HHMMSS)	Event
		081400	Takeoff Radar up Londony
		~083000	Radarup
		~162500	London
			Υ
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The state of the state of			

HRD Radar Problem Log

dar Sciei		Name Trene Sheet C Radar Technician Nacher
		when recording ended and was restarted)
Tape #	Time (HHMMSS)	Problem
	Terrorid	Service Contract Cont
		La Carrier Carrier La

Doppler Wind parameters

	Doppler flight-leg notes (for use in automatic QC and analysis) FLIGHT ID: [0874] Scientist: Reason													
	Leg Start Time	Leg End Time	Storm N		Time	Center Fix	Longitude	Max Radius (km)	Horz. Res	Inbound track	Outbound track	ja?	Angle check?	Sent?
	HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	49/98/147/196	1/2/3/4	Azimuth (deg)	Azimuth (deg)	H/TS	(Y/N)	(Y/N)
-5	102445	110930	311	10	104627	2150	7314	245	5	171	180	H	Ν.	
ω	110930	112240												
-1012	112410	120545	318	9	1144	2157	7320			316	315	4	4	
W	120710	121420				TA A	jong.							
-E	121935	130720	313	10	1242	2206	7728			89	85			
W	130830	1321												
-564	1321	140610	311	12	1344	2216	7340			227	224			
			4										1121	