Radar Scientist

Flight ID 20150826I2 **Storm** Erika **Radar Scientist** Reason

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. General supplementary procedures follow. (Check off or initial.)

Preflight

✓ 1. Determine status of equipment and report results to 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 check list.

In-Flight

✓ 1. Monitor the Tail Doppler Radar function regularly, using the realtime TDR display, to make sure the Doppler radar is scanning and working normally.

✓ 2. Maintain the Doppler Wind Parameter form as well as a written commentary in the Radar Event Log of event times, such as ending and restarting of radar recording. Also document any equipment problems or changes in R/T, INE, or signal status.

Post flight

✓ 1. Complete the summary checklist and all other appropriate forms.

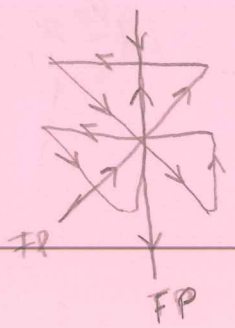
✓ 2. Download all Tail (TA) radar data files to thumb drive.

✓ 3. Brief the LPS on equipment status and turn in completed forms and thumb drives to the LPS.

✓ 4. Debrief at the base of operations.

✓ 5. Determine the status of future missions and notify HFP Director as to where you can be contacted.

20150826
16 31
58 49



ETA
2320Z

0305A

HRD Radar Scientist Check List

Flight ID: 20150826I2

Aircraft Number: N43

Radar Scientist: Reason

Radar Technician: Dana Nacher

Component Systems Status (Up ↑, Down ↓, Not Available **N/A**, Not Used **O**):

Radar Computer ↑

Lower Fuselage (LF) Antenna ↑

Tail (TA) Antenna ↑

Time correction between LF radar time and digital time: ___

TA Radar Parameters:

(Single/Dual) PRF _____ F/AST (Y/N) Rotation Rate ____ RPM

Sweeps/File _____ Record 2nd Trip (Y/N) (Circle appropriate status)

Radar Post flight Summary

Significant down time:

Radar LF _____

Radar TA _____

Other Problems:

Trigger file had 'I1' instead of 'I2'

HRD Radar Event Log

Flight ID 20150826I2 **Aircraft** N43
Radar Scientist Reasor **Radar Technician** Dana Naeher

(Include down time and times of when recording ended and was restarted)

Time (HHMMSS)	Event
165523	T/O
170029	LF ↑
~165523	TA ↑
220600	Climb from 5→10kft for AF

outbound leg

Doppler Wind parameters

Flight ID:				Doppler flight-leg notes (for use in automatic QC and analysis)					Scientist:		
Leg Start Time	Leg End Time	Storm Motion		Center Fix			Inbound track	Outbound track	Max Radius Default = 245	Horz. Res Default = 5	Sent ?
				Time	Latitude	Longitude					
HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	Degrees	Degrees	(km)	(km)	(Y/N)
1726	181700	280	15	175054	15 59	58 35	45	45	245	5	

etc. etc.