Radar Scientist

Flight ID 20131005I1 **Storm** Karen **Radar Scientist** Bucci

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.

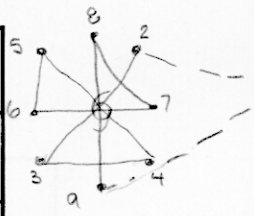
_____ 3. Brief the LPS on equipment status and turn in completed forms and thumb drives to the LPS.

_____ 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.

Doppler Wind parameters

Flight ID: 20131005I1 | **Doppler flight-leg notes (for use in automatic QC and analysis)** | **Scientist:** Bucci



Leg Start Time	Leg End Time	Storm Motion		Center Fix			Inbound	Outbound	Max Radius (km)	Horz. Res (km)	Sent ?
				Time	Latitude	Longitude					
HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	track	track	Default = 245	Default = 5	(Y/N)
071000	075600	020	14	073300	26.3	-91.9	230				
	082000										
083000	091000	293	20	085500	27° 9'	-91°46'	315	315			
	092200										
092300	100800	335	20	094400	27°39'	-91°40'	90	90			
	103400										
103800	112300	335	20	105817	27° 34'	-91° 19'	180	180			