Radar Scientist Form
(Updated 31 May 2019)

ground LPS
Lisa Bucci

Flight ID _2021 08 12 H1_ **Storm** _Fred_

HRD Radar Scientist (Aircraft/Ground) _Marks/Reasor/Fischer_

AOC Radar Operator _T. Richards_

The aircraft radar scientist is responsible for data collection from all radar systems on his/her assigned aircraft, working with the ground radar scientist to ensure successful transmission of all radar products from the aircraft in a timely manner, and contributing to mission science by communicating real-time radar products to the LPS. Specific responsibilities are detailed in the *Aircraft Radar Support Guide* located on the radar workstation desktop and in the flight bag.

∮ Pre-flight Notes.

Indicate below any existing radar instrumentation issues, pre-flight radar repairs or other instrumentation issues (e.g., GPS swapout) that might impact radar data collection or analyses. If none, then simply write NONE below.

None.

∮ Pre-flight Setup <u>with</u> Ground Radar Scientist.

Preferably before the planeside briefing, establish Xcbat communication with the ground radar scientist on #radar. Check off the following tasks.

- ☑ Communicate any pre-flight issues noted above.
- ☑ Confirm latest flight pattern. Sketch to the right. Indicate legs constituting proposed analyses.
- ☑ Go through Steps 1-3 of Aircraft Radar Support Guide.
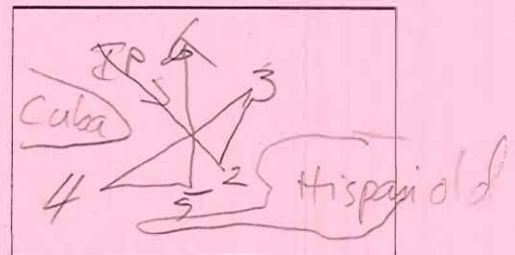
drops: 14/14 drop/sent
TDR: 3 analyses / 3 sent
CRL: operational

⨍ In-flight Setup <u>with</u> Ground Radar Scientist.

After radar recording has begun, reestablish Xchat communication with the ground radar scientist on #radar. Check off the following tasks.

☑ Go through Steps 4-7 of Aircraft Radar Support Guide.   0506A Fred

Indicate below any issues identified during Steps 4-7, in particular any radar instrumentation issues evident in the radar displays. If none, then simply write NONE below.

Everything was good until I accidently locked the TDR workstation and had to reboot at the IP (luckily not much in TDR) Fully recovered as we started getting in convection

⨍ In-pattern Radar and Weather Event Log.

Indicate below any radar down times or significant weather observations that might be helpful for interpreting radar analyses (e.g., flight through sparse shallow convection).

Time (HHMMSS)	Event (Radar or Weather)
1023	Start TDR processing for isolated showers at midpoint inbound
1033	end leg #1 turn TK040 to Pt 3
1050	end downwind leg
1052	Start leg #2 TK 240
	scattered cells at beginning of leg
1144	end leg #2
1214	end "downwind" leg turn TK 360
1258	end pattern climbs to ferry to LAL
1315	TDR shutdown

2

radar drops

$\oint$ End-of-Flight Shutdown <u>with</u> Ground Radar Scientist.

Once the aircraft exits the system, reestablish Xchat communication with the ground radar scientist on #radar. Check off the following tasks.

☑ Go through "NEAR END OF FLIGHT" Steps 1-5 of Aircraft Radar Support Guide.

If you recorded 'N' for Analysis Sent at any point during the flight, please detail the situation below. If there are any other *mission-critical* issues pertaining to the radar systems not documented above, please note them here. If none, then simply write NONE below.

* Put data onto N43RF hard drive
even though this is a N42RF mission

3 Analyses done and xmitted

Jobfile Parameters for Automated TDR Analysis

FLIGHT ID: 20210812 H1   **Aircraft Radar Scientist:** Marks /Fisher

Leg Start Time	Leg End Time	Storm Motion		Center Fix			Inbound Track	Outbound Track	Event Type	Max Radius if not 250 km	Horiz. spacing if not 2 km	Accept. for Graphics?	Analysis Sent?
				Time	Latitude	Longitude							
HHMMSS	HHMMSS	Deg	Kts	HHMMSS	Decimal Deg	Decimal Deg	Azimuth (deg)	Azimuth (deg)	IN/TS/ H/MH			(Y/N)	(Y/N)
1023	1033	NA	NA	NA			135	135				Y	Y
1052	1144	NA	NA	NA			240	240				Y	Y
1214	1258	NA	NA	NA			360	360				Y	Y