

# Radar Scientist Form

(Updated 31 May 2019)

Flight ID ZC190711H1 Storm AL92

HRD Radar Scientist (Aircraft/Ground) Alvey / Ganche

AOC Radar Operator 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.

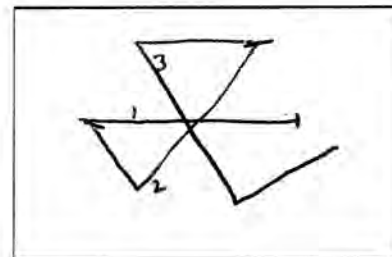
Indicate below any existing radar instrumentation issues, pre-flight radar repairs or other instrumentation issues (e.g., GPS swapout) that might impact radar data collection or analyses. If none, then simply write NONE below.

Reflectivity artifact with short pulse, otherwise none.

## § Pre-flight Setup with Ground Radar Scientist.

Preferably before the planeside briefing, establish Xchat 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.



### § In-flight Setup with 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.

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.

None
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### § 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)
0950-1145	Minimal turbulence
1150-1220	Increase in turbulence as approaching more convective active SW quadrant
115140	Visual increase in shallow-mid convection; Few cells w/ tops near or above FL
115530	Directly over congested (visual) + radar)

**§ End-of-Flight Shutdown with 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.

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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.

NONE

## Jobfile Parameters for Automated TDR Analysis

FLIGHT ID:				Aircraft Radar Scientist:									
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)
085655	095035	270	4	092030	(Mth level)		270	270	IN			Y	Y
095035	111310						30	30	IN			Y	Y
111310	122030						150	150	IN			Y	Y
122500	124030						330	330				N	N
124220	124950						90	90				Y	Y
125130	125920						270	270				Y	Y
130140	130920						90	90				Y	Y
131710	132710						270	270				Y	Y
132915	135015						120	120				Y	Y

} Convective burst mode