Radar Scientist Form
(Updated 5 June 2021)

Flight ID _____ **Storm** _____ **HRD**

Radar Scientist (Aircraft/Ground) _____ **AOC**

Data Tech _____

The ground radar scientist is responsible for assisting the aircraft radar scientist with preparing the HRD radar workstation for software execution and data transmission. Through various situational awareness tools, they are able to advise the aircraft on issues pertaining to the radar software, scripts, data transmission and instrument function. Chiefly, they are responsible for generating the analysis parameter jobfiles that initiate the aircraft radar software. Specific responsibilities are detailed in the Ground Radar Support Guide located in Google Drive (HRD/Hurricane Field Program/2021/Training/Radar).

*Pre-flight Notes.

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

*Pre-flight Setup <u>with</u> Aircraft Radar Support.

Preferably before the planeside briefing, establish Xchat communication with aircraft radar support on #radar. Check off the following tasks.

    Confirm any pre-flight issues noted above.

    Confirm latest flight pattern.

    Go through Steps 1-4 of Ground Radar Support Guide.

*In-flight Setup <u>with</u> Aircraft Radar Support.

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

Go through Steps 5-8 of Ground Radar Support Guide.

Indicate below any issues identified during Steps 5-8, in particular any radar instrumentation issues evident in the radar displays. If none, then simply write NONE below.

*In-pattern Radar and Weather Event Log.

Indicate below any center fix info, radar down times or significant meteorological observations (e.g., center reformation) that might be helpful for interpreting radar analyses.

Time (HHMMSS)	Event (Radar or Weather)

*End-of-Flight Shutdown <u>with</u> Aircraft Radar Support.

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

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

Highlight here anything that should be considered in Level 2 reprocessing (e.g., failed or deficient Level 1b analyses, additional data that could be analyzed, parameters that might need to be adjusted). Please be as specific as possible. If none, then simply write NONE below.

Don't forget to upload a screenshot of flight track overlaid on satellite imagery from MTS as soon as the science portion of the flight is completed!

Highlight here any radar data transmission issues. If none, then simply write NONE below.