Radar Support Form
(Updated 30 August 2023)

Flight ID _____   **Storm** _____

HRD Radar Support (Aircraft/Ground) _____ / _____

AOC SSA _____

The SSA (or HRD aircraft radar support) is responsible for preparing the HRD radar workstation for software execution and data transmission, ideally before take off. Through various situational awareness tools, ground radar support can 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/2023/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.

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

At some point before the IP, 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
    Confirm execution of startup_script

*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.

Verify proper TDR system function as described in Ground Radar Support Guide

Indicate below any ALERTS raised in #n4*rf-hrd-sweeps-status, or other issues of note, prior to the IP.

*In-pattern Radar and Weather Event Log.

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

HHMM (UTC)	Job #	Center (lat, lon)	Description

Motion: **deg**   **kts**

*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.

Inform SSA that they may bring down TDR; execute shutdown_script

Fill TDR content in TC Flight Summary spreadsheet

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.

Insert below a screenshot of flight track overlaid on satellite imagery from MTS at the completion of flight science. Include helpful time, range, and distance markers in the display.

*Dataflow Monitoring (as needed) ... All Times HHMM (UTC)

Jobfile Sent	Jobfile Received	Job Done	1st EMC at Gateway	analysis.tar in /tmp	Netcdf at SEB	Issue?

Highlight here any dataflow issues. Copy/paste dialogue from xchat that might be helpful for understanding.