



# METplus for HAFS

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NCAR/RAL

HAFS Coordination Meeting – 13 May 2020

**National Center for Atmospheric Research**



# Developing Use-Cases to Evaluate Using HRD Data

**Hurricane Research Division**  
Atlantic Oceanographic & Meteorological Laboratory  
National Oceanic & Atmospheric Administration

**Hurricane Data**

The Hurricane Research Division collects a variety of data sets on tropical cyclones. Each Atlantic and East Pacific hurricane seasons we conduct a field program in which we collect these data sets from the NOAA aircraft and process them. By clicking on a year from the list below you will go to a window which lists each storm from which we collected data.

**Please note** that we don't necessarily collect information on every hurricane that occurs, so the list won't be for all of the storms for that year.

In addition :  
For wind field analysis [click here](#).  
For aircraft radar data [click here](#).  
For dropsonde data [click here](#).  
For the HURDAT reanalysis progress [click here](#).  
For data formats [click here](#).

Select a Year  Go

**2019 Hurricane Season**

| Storm Name        | Missions | Radar  | Satellite | Sondes    | SFMR | Track |
|-------------------|----------|--------|-----------|-----------|------|-------|
| Andrea            | Missions |        | Satellite |           | SFMR | Track |
| Barry             | Missions |        | Satellite |           | SFMR | Track |
| TD#03             | Missions |        | Satellite |           | SFMR | Track |
| Dorian            | Missions | Radar  | Satellite | Sondes    | SFMR | Track |
| Fernand           | Missions | Radar  | Satellite | Sondes    | SFMR | Track |
| Humberto          | Missions | Radar  | Satellite | Sondes    | SFMR | Track |
| Jerry             | Missions | Radar  | Satellite | Sondes    | SFMR | Track |
| Karen             | Missions | Radar  | Satellite | Sondes    | SFMR | Track |
| Lorenzo           | Missions | Radar  | Satellite | Sondes    | SFMR | Track |
| Nestor            | Missions | Radar  | Satellite | Sondes    | SFMR | Track |
| Olga              | Missions |        | Satellite |           | SFMR | Track |
| Misc              | Missions |        | Satellite |           | SFMR | Track |
| Genesis (pre-Ivo) | Missions |        | Satellite | Sondes    | SFMR | Track |
| Lorena            | Missions | Photos | Radar     | Satellite | SFMR | Track |

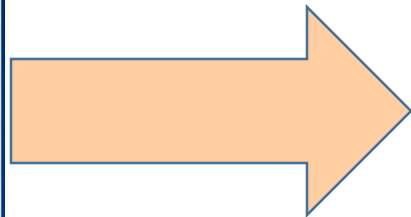
**Atlantic Basin**

**East and Central Pacific Basin**

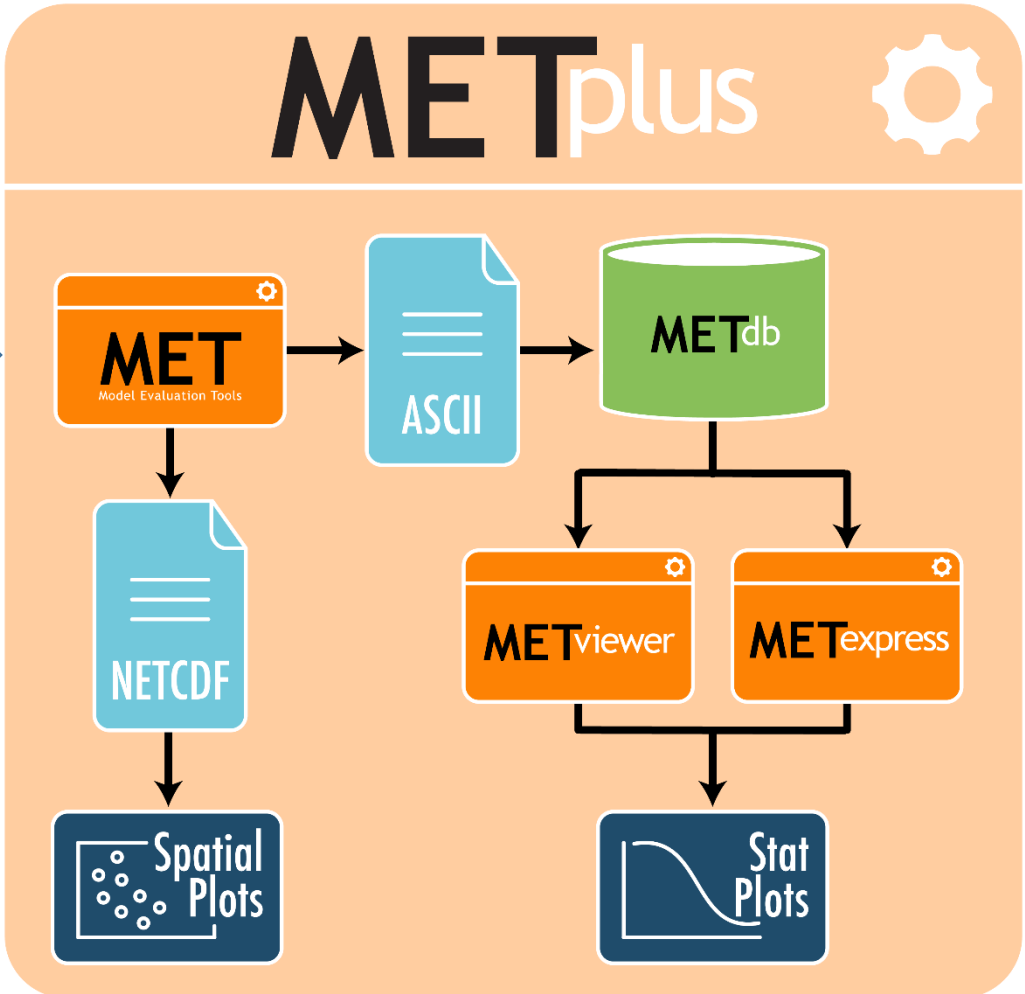
**West Pacific Basin**

*Last Updated : December 2, 2019*

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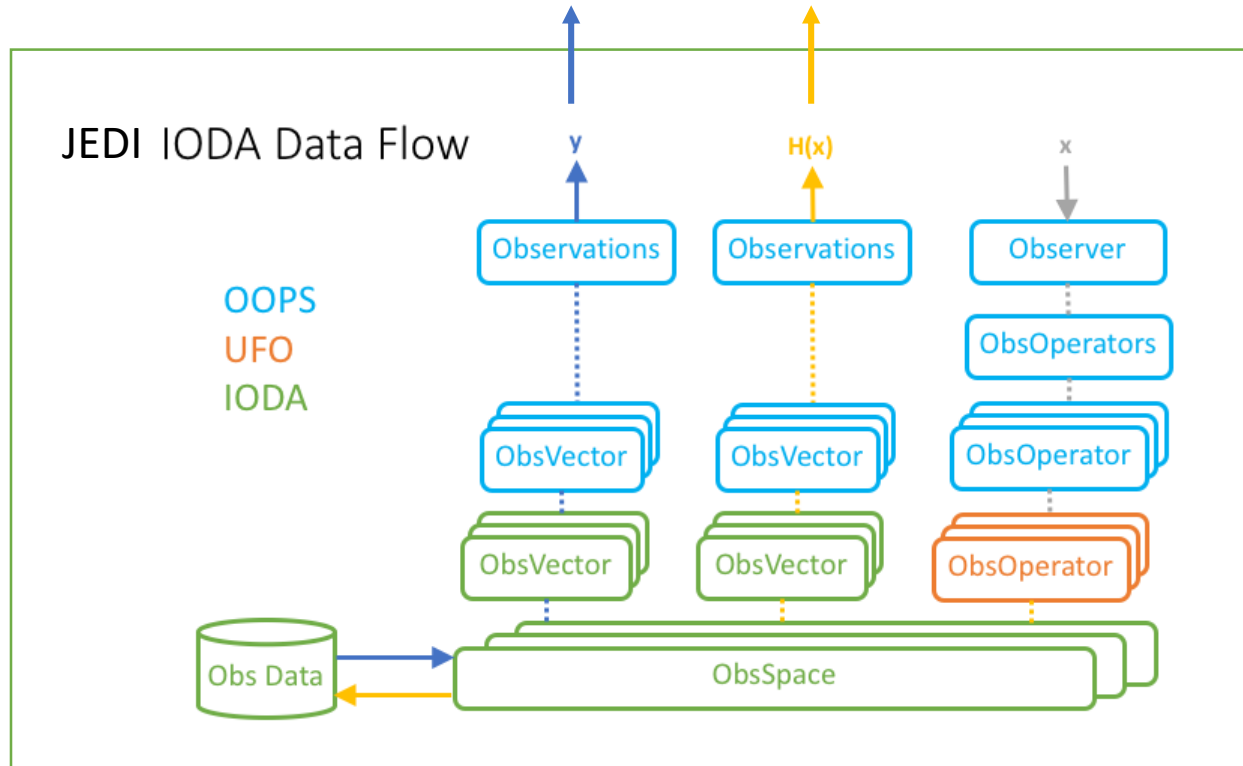


1<sup>st</sup> use-case is focused on ingesting radar data through python embedding



# Making Connections to JEDI

## METplus



- Looking at:
  - How to leverage the Obs Data Base (ODB)
  - Can it be used to pull out matched pairs for evaluation on the native grid?
  - Best method for passing data into METplus (temp files vs. in-memory)
- Have made connections with DTC, EMC, and JCSDA
- Works started 11 May 2020

METplus capability will be supported to the community through DTC