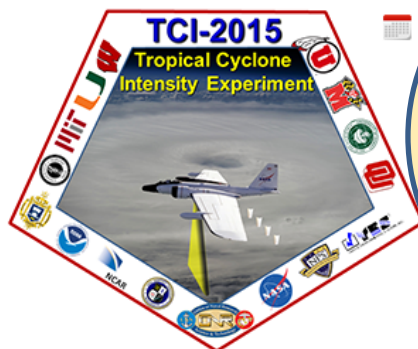


# TCI Data Items

## Tropical Cyclone Intensity (TCI) Experiment



July 15, 2015 to October 31, 2015

### What's New?:

There will be a TCI Information Meeting on Monday 11 January at the AMS Annual Meeting. The meeting will be held at the New Orleans Convention Center room 340/341 from 6-7pm.

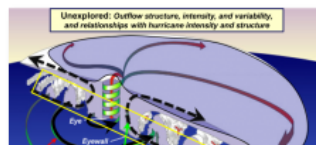
[Submit data to the TCI Archive](#)

[Submit a TCI Publication](#)

### Project Description:

The goal of the Tropical Cyclone Intensity (TCI) initiative is to improve the prediction of tropical cyclone (TC) intensity and structure change. The specific focus is an improved understanding of TC upper-level outflow layer processes and dynamics. This will be investigated in a comprehensive manner using the observations obtained during the TCI field phase in 2015 and high-resolution tropical cyclone models. Our ultimate goal is to improve the prediction of tropical cyclone intensity change, especially rapid intensification (RI) and rapid decay (RD) as well as TC structural changes that are hypothesized to occur through synergistic interactions with outflow.

Accurate prediction of tropical cyclone intensity remains one of the greatest challenges in meteorology today. Previous research programs and field campaigns (e.g., CBLAST, 2002-2004; TCSP, 2005; NAMMA, 2006; TPARC/TCS08, 2008; ITOP/TCS10, 2010, GRIP, 2010, HS3, 2012-2014) have focused on mechanisms in the



### DATA ACCESS

Data Access  
TCI Flight Data Table  
Field Catalog

### DATA DOCUMENTATION

TCI Draft Data Policy  
Dataset Documentation Guidelines  
Data Submission Instructions

### DOCUMENTS

TCI Operations Plan  
2015 National Hurricane Operations Plan  
WB-57F Experimenter's Handbook

### MEETINGS AND PRESENTATIONS

TCI Meetings and Presentations

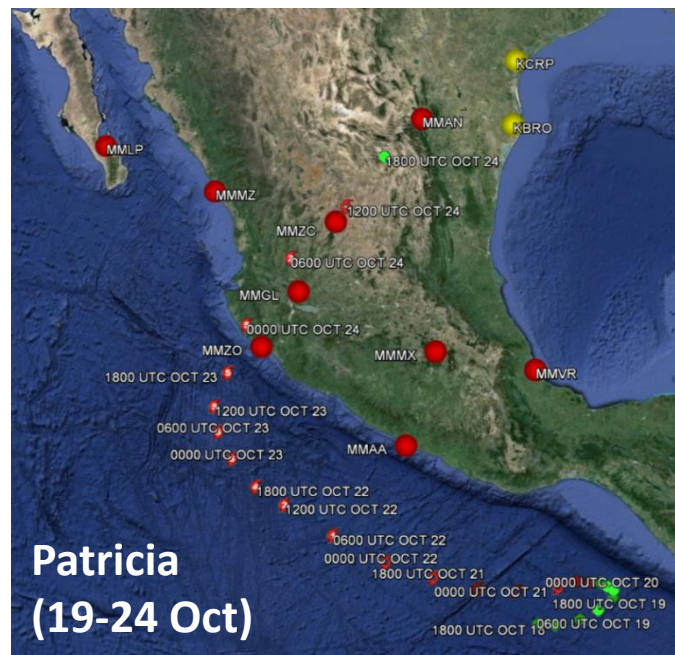
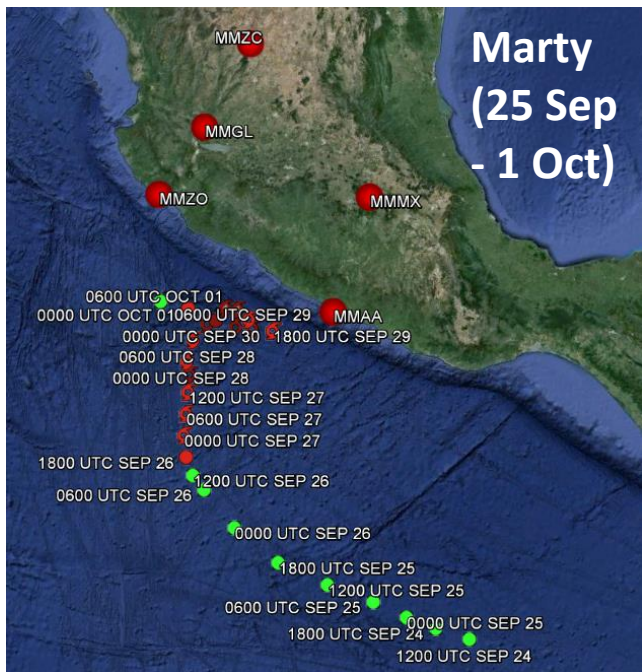
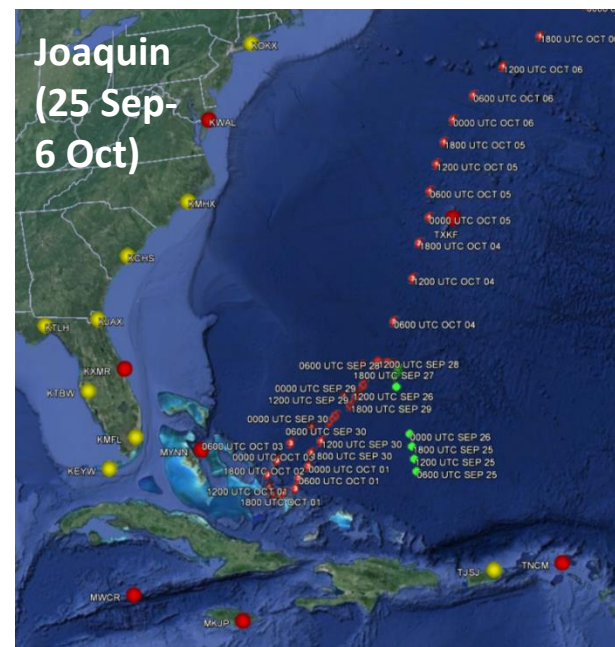
### GENERAL LOGISTICS



TCI Project Overall Timeline  
Monthly TCI Schedule  
TCI Daily Timeline  
WB57 Test Flight, 24 June 2015  
Plan Aircraft Tracks (PAT)  
PAT Training Slides  
TCI Staff Schedules

### RELATED LINKS


[https://www.eol.ucar.edu/field\\_projects/tci](https://www.eol.ucar.edu/field_projects/tci)

# TCI Supplementary Radiosonde Data



-  NWS High Res (314 soundings)
-  GTS Low Res (349 soundings)

# TCI Long Term Data Archive



## TCI Data Sets

Data Set Name (Responsible Group/PIs shown in parentheses)	Date Posted	Info
<b>Aircraft</b>		
<a href="#">Aircraft Data Table</a>		
<b>Ancillary</b>		
<a href="#">TCI Field Catalog Daily Reports (NCAR/EOL)</a>	New 2015-11-12	
<a href="#">TCI Field Catalog Missions Summary (NCAR/EOL)</a>	New 2015-11-12	
<b>Forecast Text Products</b>		
<a href="#">TCI Field Catalog NHC Text Products (NCAR/EOL)</a>	New 2015-11-12	
<b>Land Based</b>		
<a href="#">GTS LDM Surface Hourly Observations (Global_GEMPAK)</a>	New 2015-12-16	
<a href="#">GTS LDM Surface Synoptic Observations (Global_GEMPAK)</a>	New 2015-12-16	
<a href="#">LDM Surface METAR Data (METAR format)</a>	New 2015-12-16	
<a href="#">NOAA/ESRL/GSD/MADIS GTS METAR Data (netCDF format)</a>	New 2015-12-16	
<b>Model</b>		
	New	

**DATA BY CATEGORY**

- Aircraft
- Ancillary
- Forecast Text Products
- Land Based
- Model
- Oceanography
- Photography
- Radar
- Satellite
- Upper Air

[Back to TCI](#)

Email comments & questions to [oodfac@ucar.edu](mailto:oodfac@ucar.edu)

[http://data.eol.ucar.edu/master\\_list/?project=TCI](http://data.eol.ucar.edu/master_list/?project=TCI)

**TCI Master List** – Includes links to all TCI data sets, primary location for supplementary data (radiosonde, surface met, buoy, ship etc).

## TCI Flight Data Table

Jump to Storm: [Erika](#) [Marty](#) [Joaquin](#) [Patricia](#)

Data format descriptions: [Serial Data](#) [Flight Director's Log](#) [P-3 LF Radar Sweep File](#) [SFMR](#)

Erika									
25 August 2015									
Aircraft	Flight ID	TO Time	Drops	Flight Level Data			Flight Logs	Radar	SFMR
				Serial	30 sec	NetCDF			
NOAA 49	WA05A	1345	X	X		X	X	X	
USAF 301	0105A	1632							
NOAA 43	WB05A	2048	X	X		X	X	X	
26 August 2015									
Aircraft	Flight ID	TO Time	Drops	Flight Level Data			Flight Logs	Radar	SFMR
				Serial	30 sec	NetCDF			
NOAA 43	WC05A	0554	X	X		X	X	X	
USAF 301	0205A	0847							
NASA DC8	1046	~1100							
NASA AV6	WX05A	1400							
NOAA 43	0305A	1706	X	X		X	X	X	
USAF 301	0405A	2120							
27 August 2015									
Aircraft	Flight ID	TO Time	Drops	Flight Level Data			Flight Logs	Radar	SFMR
				Serial	30 sec	NetCDF			
NOAA 43	0505A	0456	X	X		X	X	X	
USAF 303	0605A	1018							
NASA DC8	1047	~1200							
NOAA 49	0705A	1728	X	X		X	X		
USAF 309	0805A	1938							
28 August 2015									
Aircraft	Flight ID	TO Time	Drops	Flight Level Data			Flight Logs	Radar	SFMR
				Serial	30 sec	NetCDF			
NOAA 43	0905A	0607	X	X		X	X	X	
USAF 303	1005A	0819							
NASA DC8	1048	~1300							

**TCI Flight Data Table** – Includes links to data from NASA WB-57, Global Hawk, and DC-8, NOAA P-3 and G-IV, and USAF C-130 for all flights into TCI-flown storms.

[http://www.eol.ucar.edu/projects/tci/flight\\_data/](http://www.eol.ucar.edu/projects/tci/flight_data/)

# Draft TCI Data Policy

- Preliminary data submitted by 31 March 2016.
- Final data and metadata submitted by 31 October 2016.
- TCI PIs and collaborators have exclusive access to all TCI generated research data for one year initial analysis period (31 October 2016). No third party dissemination allowed.
- After 31 October 2016 all TCI data and metadata considered open to the public domain.
- A list of TCI investigators (PIs and collaborating scientists and agencies) will be provided by TCI science leadership to EOL. All TCI investigators will have equal access to all data.
- During the one year initial analysis period data users must notify data providers of their intent to use the data.
- Once final data sets are submitted to the TCI archive, EOL will create and distribute DOIs that should be used in TCI related publications.
- All acknowledgements of TCI data should include TCI, the data providers, the funding agencies, data archive center, relevant DOIs.
- EOL is responsible for the long-term data stewardship of the TCI archive and coordinate with other agencies for complementary data where possible.

[https://www.eol.ucar.edu/system/files/TCI%20Data%20Policy\\_010616.pdf](https://www.eol.ucar.edu/system/files/TCI%20Data%20Policy_010616.pdf)

**Give it a look and provide any input to Steve Williams.**