PREDICT DATA MANAGEMENT UPDATE AND ISSUES

Steve Williams, Scot Loehrer, June Wang, and Kate Young

NCAR Earth Observing Laboratory (EOL)

Boulder, Colorado

PREDICT 1st Science Workshop

Naval Postgraduate School, Monterey, CA

8-10 June 2011

EARTH OBSERVING LABORATORY

NCAR

PREDICT Data Management Web Site at NCAR/EOL

Pre-Depression Investigation of Cloud-systems in the Tropics

What's New?

Data Submission Instructions

St Croix Operations Center (slideshow)

Overview

Prediction and understanding of tropical cyclogenesis remains one of the most challenging aspects of atmospheric science. A multitude of tropical disturbances emerge from the West African coast every year near the Cape Verde islands, but only a few of these develop into tropical depressions, storms, or hurricanes. To further our understanding of these potentially high impact events, the PRE-Depression Investigation of Cloud-systems in the Tropics (PREDICT) field experiment will deploy the NSF/NCAR Gulfstream-V aircraft in the Atlantic basin in the heart of hurricane season to explore multi-scale interactions in tropical wave-like disturbances that promote or hinder the development of a tropical depression vortex.

People

PREDICT Scientific Steering Committee

Data Access

PREDICT Datasets Master List
2009 PREDICT/GRIP "Dry Run"
PREDICT Field Catalog
Dataset Documentation Guidelines
Data Submission Instructions

Publications

NPS Publications
Marsupial Tracking

Meetings

Meetings and Presentations

Documentation

Scientific Program Overview
Experimental Design Overview
Pre-Field Documentation

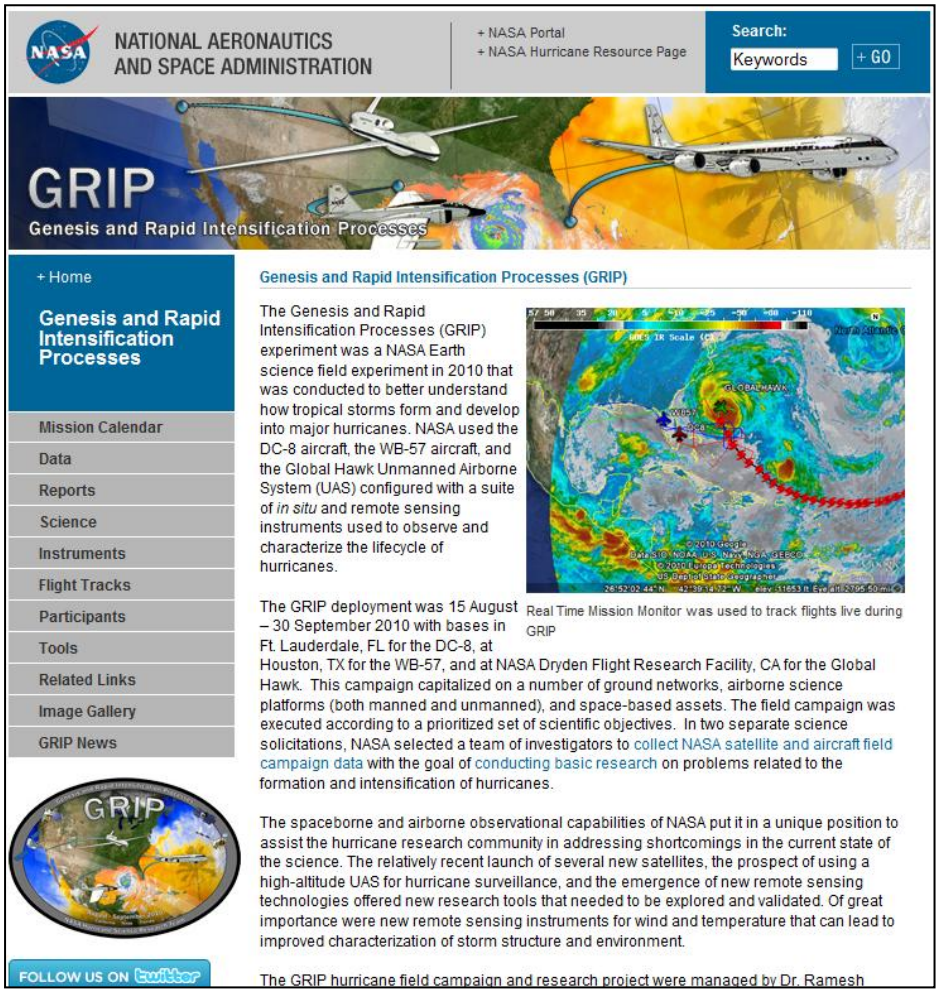
Mailing Lists

General PREDICT List
PREDICT Forecast Team

- Project Description
- Data Access
- Field Catalog
- Publications
- Meetings
- Documentation
- Participants/Mailing Lists
- Photography
- Education & Outreach
- Related Web Pages

http://www.eol.ucar.edu/projects/predict/

COLLABORATING PROJECTS AND DATA ACCESS



Pre-Depression Investigation of Cloud-systems in the Tropics

The PREDICT Science and GRIP/IFEX Coordination Meeting was held 12-13 November 2009 at the NOAA/AOML Hurricane Research Division, Virginia Key, Florida

Click on the presentation title for the PDF

Participants List

Thursday, 12 Nov 2009

	Scientific Hypotheses and Aircraft Assets	
8:30	PREDICT	M Montgomery
9:00	PREDICT NSF/NCAR Gulfstream-V	J Jensen
9:15	GRIP Genesis and Rapid Intensification Processes	E Zipser
9:30	GRIP aircraft (NASA DC-8, GlobalHawk)	G Heymsfield
9:45	*Break*	
10:00	Intensification Forecast Experiment (IFEX-2010)	R Rogers
10:15	IFEX-2010 Aircraft (NOAA P-3s , G-IV)	F Marks, others
10:30	*Open Discussion of Objectives and Synergies*	
11:00	Aircraft Coordination Discussion	
11:30	Operations Centers (NCAR/EOL)	J Meitín
11:45 -1:00	*Lunch (aircraft coordination discussion with FAA representative)*	
	Operational Interests and Experimental Support	
1:00	NOAA National Hurricane Center perspective	C Landsea, J Beven
1:15	NCAR/EOL Support (Field Catalog, XChat, etc)	G Stossmeister

PREDICT EDUCATION AND OUTREACH

UCAR | NCAR | Find People | Contact/Visit

Home | Project Categories | Field Projects | Careers in Science | EOL Discovery

home | field projects

- PREDICT 2010
  - Science Team
  - Instruments
  - Research Aircraft
  - Multimedia Gallery
  - In the News
  - PREDICT Blog
  - Calendar
  - Educational Resources
- HIPPO 2009-2011
- ISPA 2010
- VOCALS 2008
- BuFEx 2005 & 2007

PREDICT :: Pre-Depression Investigation of Cloud-systems in the Tropics

Studying the Development of Tropical Cyclones & Hurricanes

Prediction and understanding of tropical cyclogenesis remains one of the most challenging aspects of atmospheric science. A multitude of tropical disturbances emerge from the West African coast every year near the Cape Verde islands, but only a few of these develop into tropical depressions, storms, or hurricanes.

The ***PRE-Depression Investigation of Cloud-systems in the Tropics*** (PREDICT) field experiment will deploy the NSF/NCAR Gulfstream V aircraft in the Atlantic basin in the heart of hurricane season, 15 August-30 September, 2010 to explore multi-scale interactions in tropical wave-like disturbances that promote or hinder the development of a tropical depression vortex.

Tri-Agency Research

PREDICT is one project in a tri-agency collaborative study of the formation of tropical hurricanes. The National Center for Atmospheric Research (NCAR), National Aeronautics and Space Administration (NASA) and National Oceanic and Atmospheric Administration (NOAA) will collaborate and coordinate multi-aircraft deployments over the tropical Atlantic Ocean. These three projects are being deployed simultaneously, each having their own specific hypotheses and agenda, however each are complimenting the others.

Tri-Agency Collaboration

- **PREDICT :: NSF/NCAR**
- **GRIP :: NASA**
- **IFEX :: NOAA**

Tropical Research Base Location :: St. Croix, US Virgin Islands

While this project is deployed, the needed research team and aircraft will be based in St. Croix, Virgin Islands. This particular location was chosen because it

Follow PREDICT

Read our blog

PREDICT DATA POLICY

ACCESS TO DATA

All investigators participating in PREDICT must agree to promptly submit their data to the PREDICT Data Archive Center (at EOL) to facilitate intercomparison of results, quality control checks and inter-calibrations, as well as an integrated interpretation of the combined data set.

All data shall be promptly provided to other PREDICT investigators upon request.

Data Submission instructions are available on the project management web page (http://www.eol.ucar.edu/projects/predict/)

Investigators are responsible for acquiring, processing, certifying and reducing the data from their instruments and providing required data products and metadata on schedule

PREDICT DATA POLICY

USE OF DATA

Neither measurements nor data products may be published or used in any presentation without the permission of the PI responsible for the measurements.

Any Science Team member preparing a paper for publication which uses measurements and/or data products submitted to the Archive by another group is required to offer co-authorship on the paper to the PI responsible for the parameter(s). Early contact with possible collaborators in development of publication is encouraged to maximize scientific interaction and ensure proper use of PI data.

In all circumstances, the PIs responsible for acquisition of data should be acknowledged appropriately.

PREDICT DATA POLICY

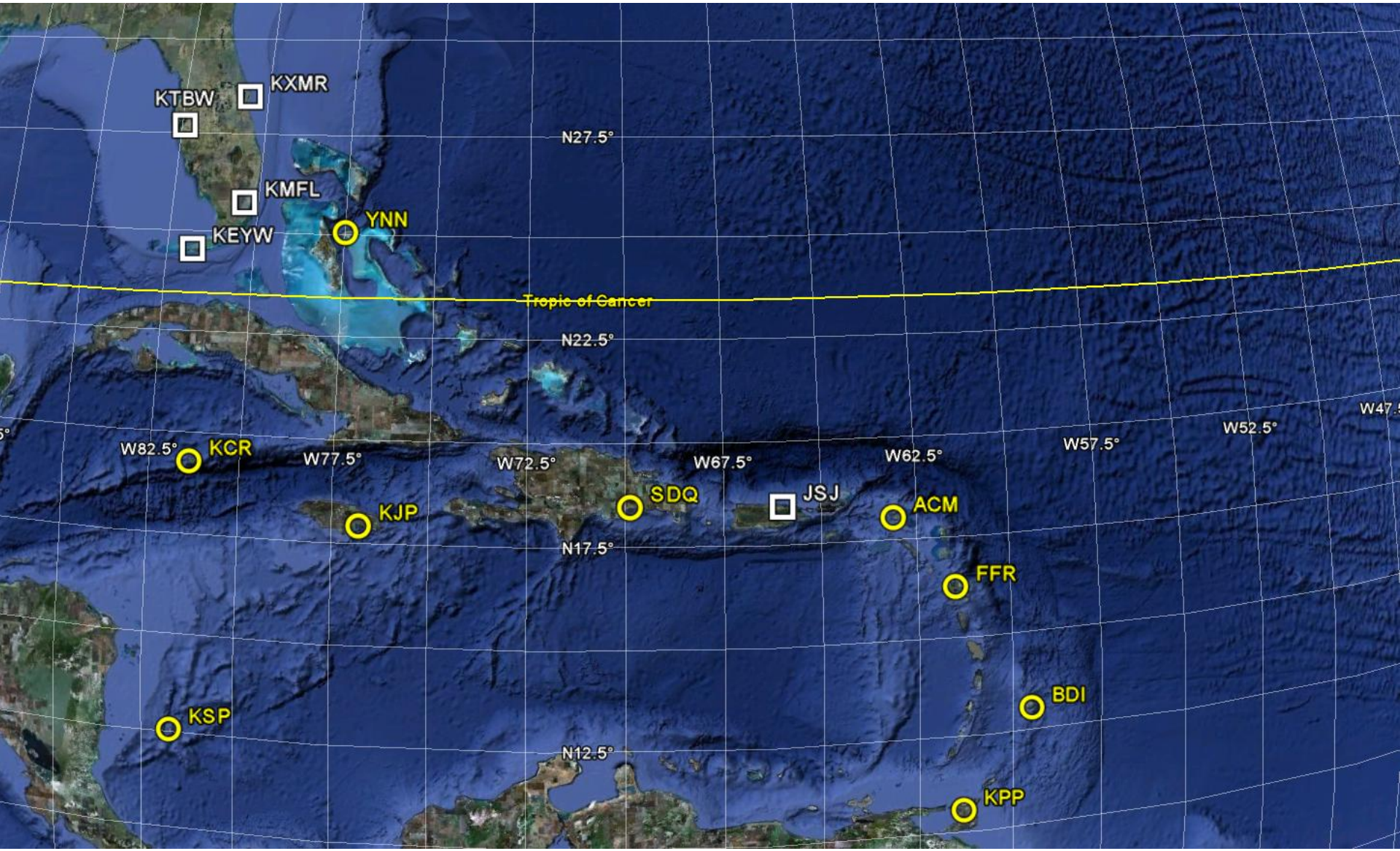
USE OF DATA

All data will be considered public domain not more than one year following the end of the PREDICT field phase. Data can be opened to the public domain earlier depending on the discretion of the data provider. There will be exceptions where extensive data processing is required.

***Suggested acknowledgement*: The xxxx data was gathered as part of the the PRE-Depression Investigation of Cloud-systems in the Tropics (PREDICT) project. The primary sponsor of PREDICT was the US National Science Foundation. The acquisition of the xxxx data was carried out by Dr. Yyyyy using the zzzz instrument and was funded by ????**

Or acknowledge that data was obtained from the PREDICT Data Archive at NCAR/EOL, i.e. "Data provided by NCAR/EOL under sponsorship of the National Science Foundation. http://data.eol.ucar.edu/"

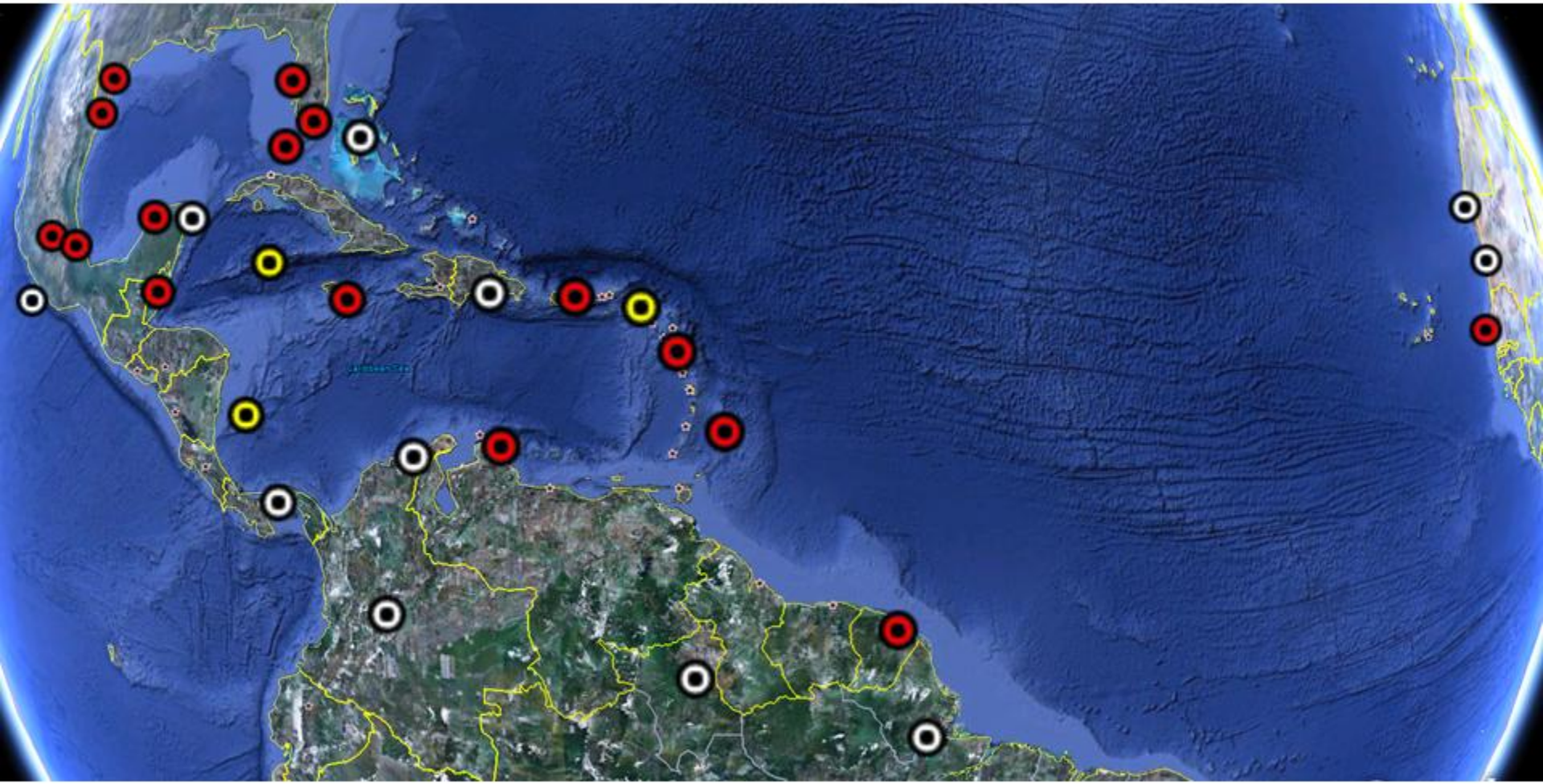
PREDICT Region Radiosonde Locations



00 and 12 UTC observations

12 UTC observations (ACM spotty on GTS)

PREDICT UPPER AIR GTS DATA INVENTORY
(15 August – 30 September 2010)

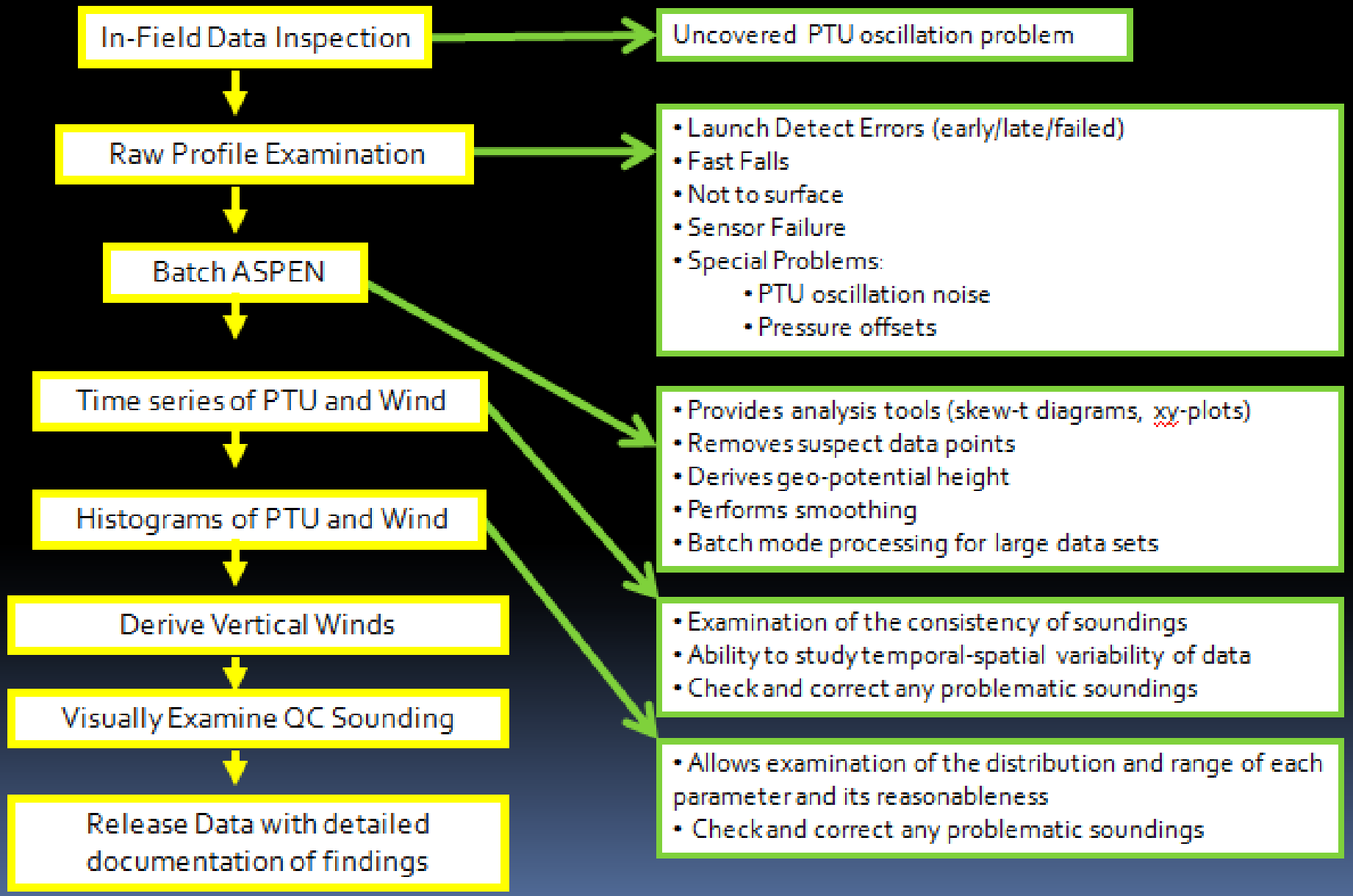


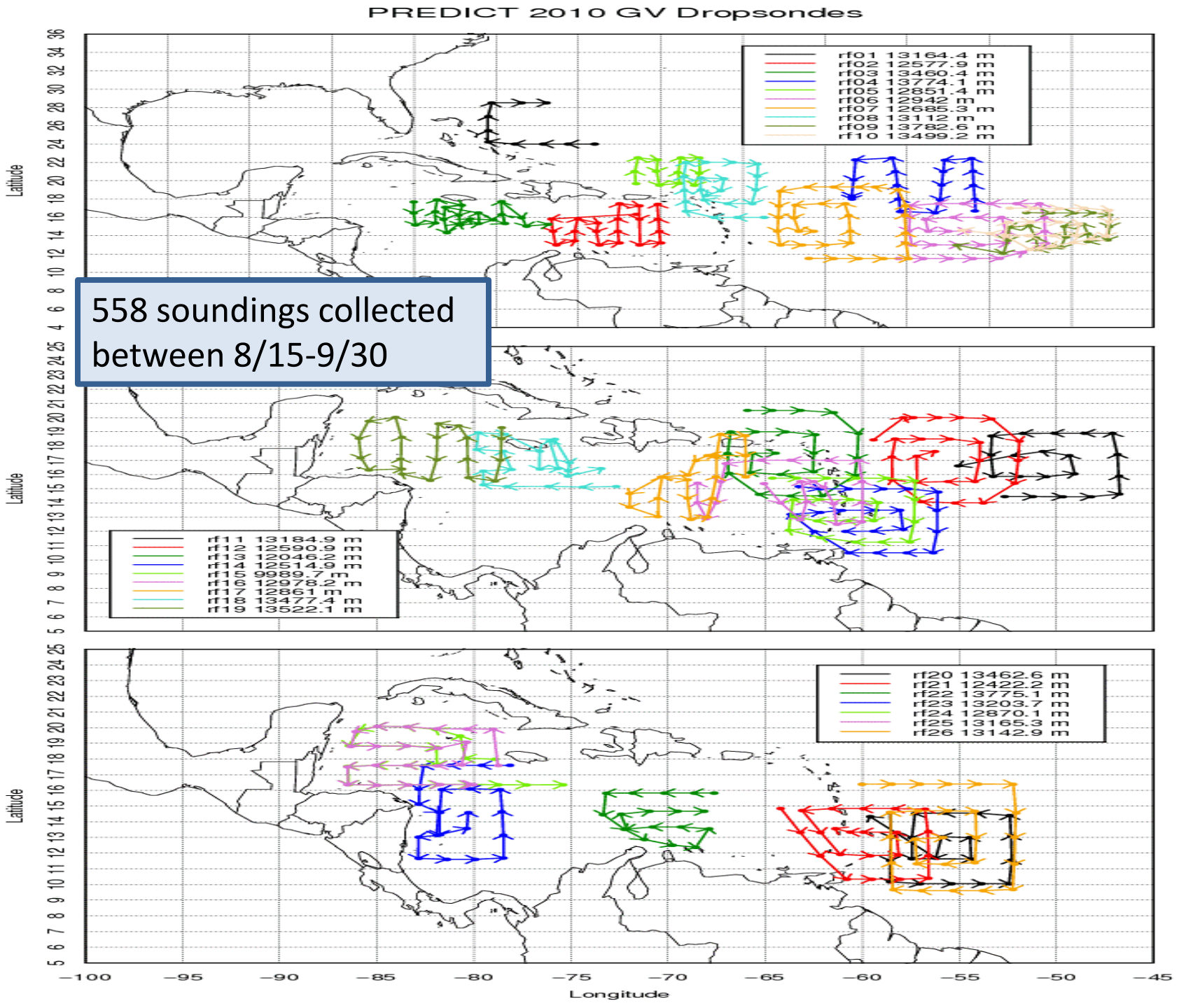
30 Stations (1863 Soundings)
- **Red: 50-100 Soundings**
- **White: 24-49 Soundings**
- **Yellow: 1-6 Soundings**

NWS High Vertical Resolution Stations:
- **Key West, Miami, Tampa Bay**
- **Brownsville, Corpus Christi**
- **San Juan**

PREDICT
August 15 - September 30, 2010
PREDepression Investigation of Cloud systems in the Tropics

Quality Control of Dropsonde data

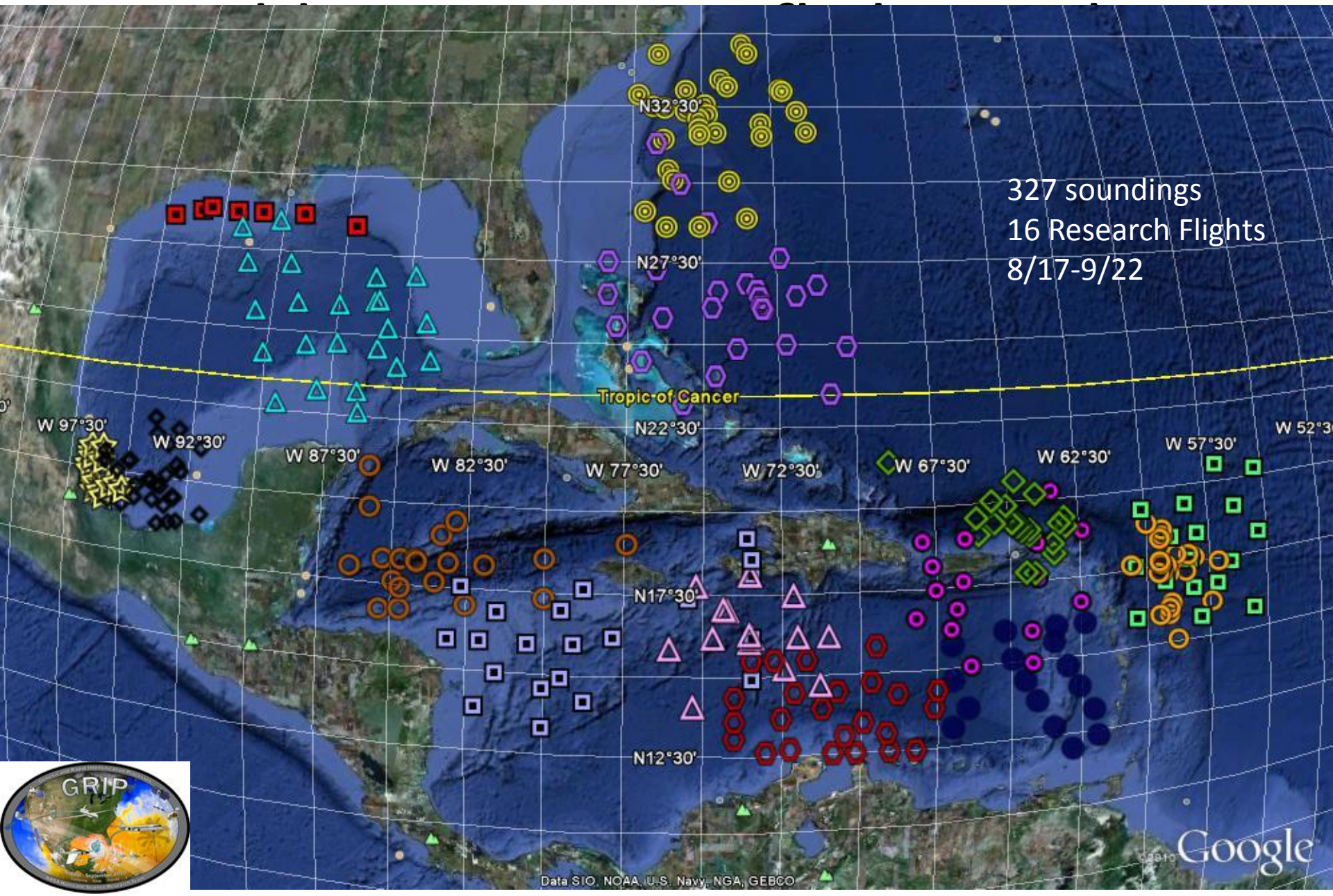



PREDICT 2010 GV Dropsondes
558 soundings collected between 8/15-9/30
rf01 13164.4 m
rf02 12577.9 m
rf03 13460.4 m
rf04 13774.1 m
rf05 12851.4 m
rf06 12942 m
rf07 12685.3 m
rf08 13112 m
rf09 13782.6 m
rf10 13499.2 m
rf11 13184.9 m
rf12 12590.9 m
rf13 12046.2 m
rf14 12514.9 m
rf15 9989.7 m
rf16 12978.2 m
rf17 12861 m
rf18 13477.4 m
rf19 13522.1 m
rf20 13462.6 m
rf21 12422.2 m
rf22 13775.1 m
rf23 13203.7 m
rf24 12870.1 m
rf25 13165.3 m
rf26 13142.9 m
Latitude
Longitude
−100 −95 −90 −85 −80 −75 −70 −65 −60 −55 −50 −45

PREDICT Dropsonde Results and Statistics

- 568 dropsondes were deployed, 558 are included in the final data archive
- 11 soundings were affected by the PTU oscillation error and contain sparse data
- One sounding experienced interference from another sonde started on the same frequency . Some data was lost during this time
- 9 soundings experienced large, temporary offsets in the pressure, temperature and humidity
- 8 soundings failed to transmit to the surface
- 21 soundings were “fast fall” soundings, and 20 were “partial fast-fall”
- 7 soundings experienced failure of one or more sensors, resulting in data loss
- Launch detect errors:
  - 7 early launch detects
  - 2 failed launch detects
  - 29 late launch detects

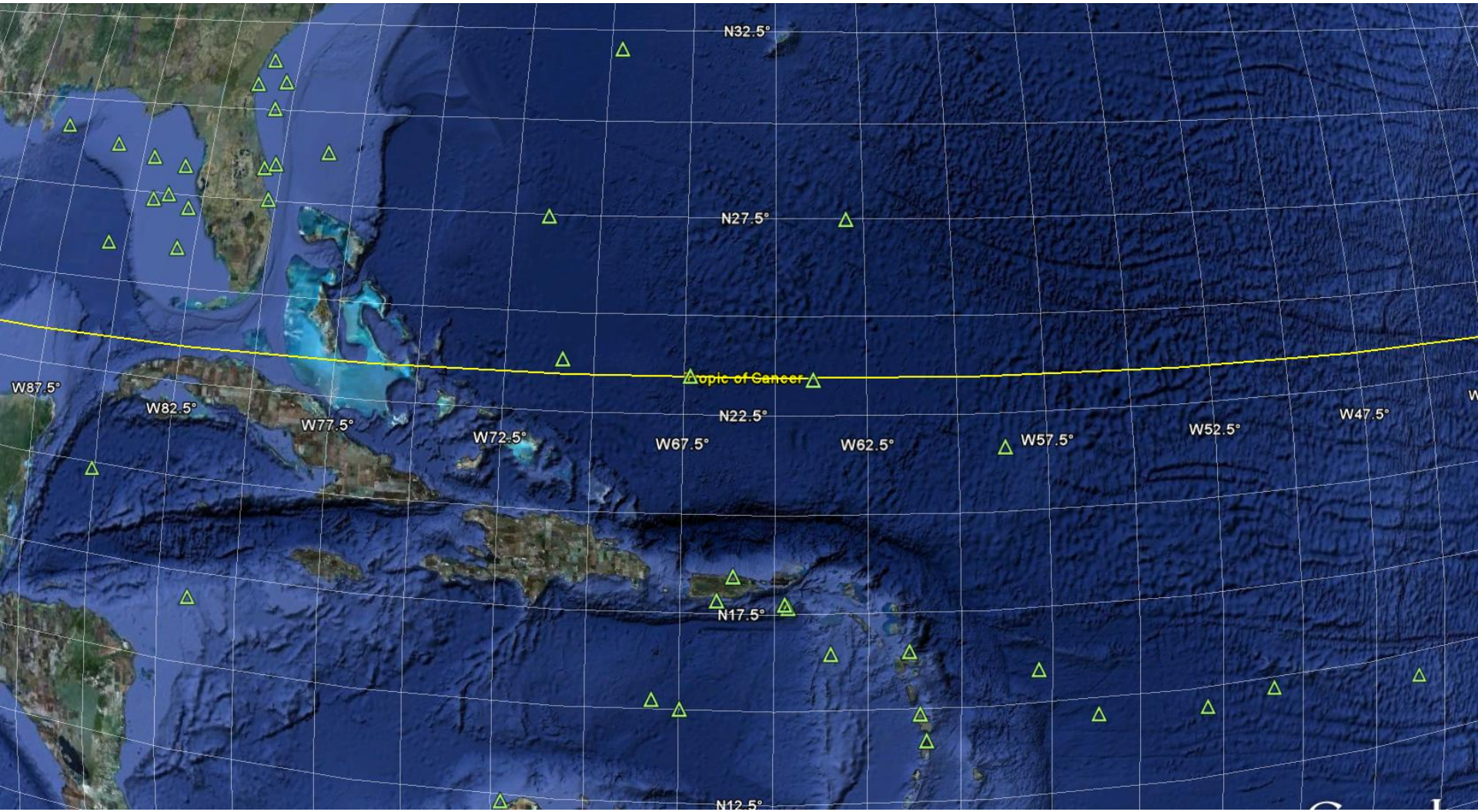
GRIP DROPSONDES DURING PREDICT



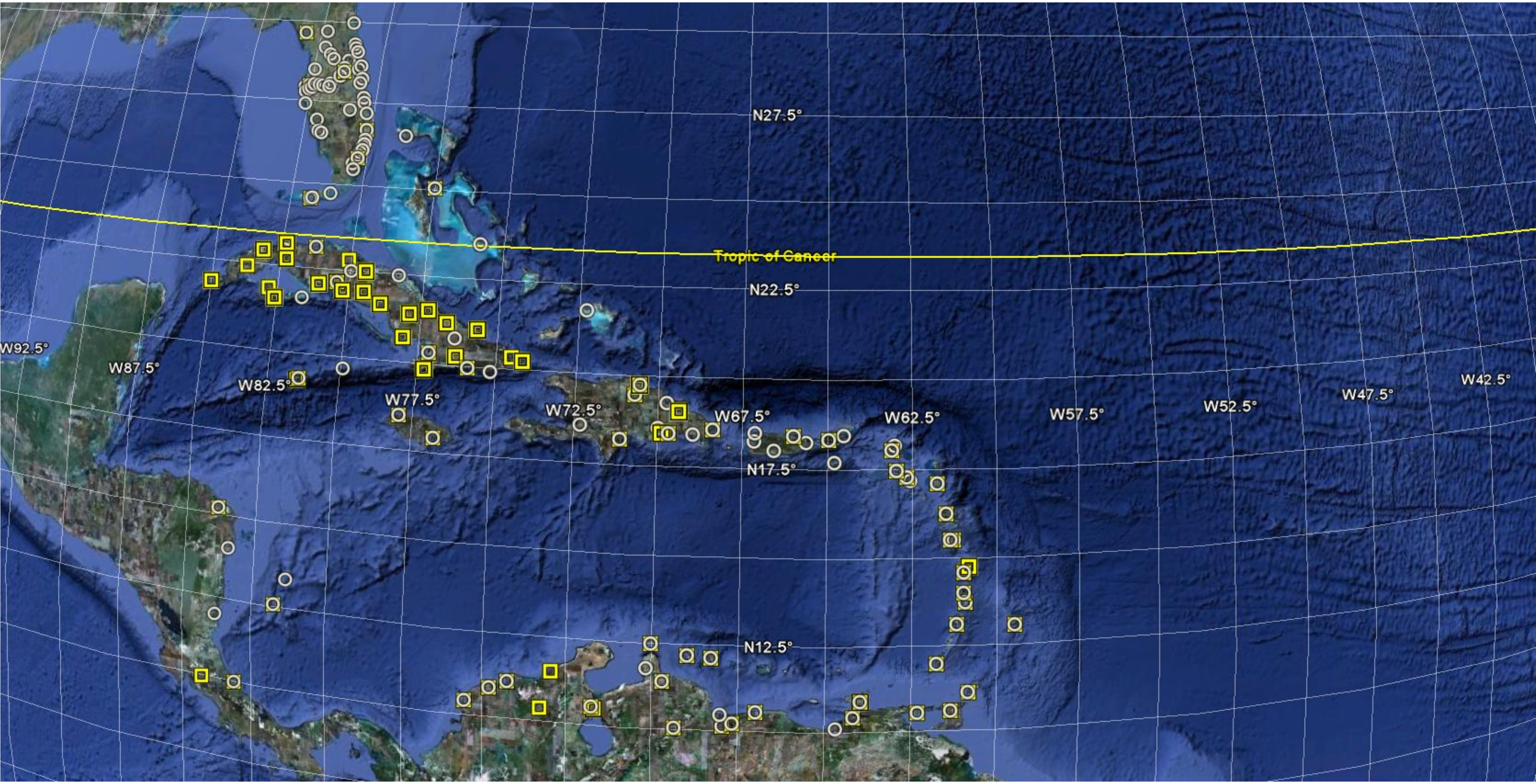
GRIP Dropsonde Results and Statistics

- 342 dropsondes were deployed, 327 are included in the final data archive
- 78 soundings were affected by the PTU oscillation error and contain sparse data
- 3 soundings experienced interference from another sonde started on the same frequency
- 34 soundings failed to transmit to the surface
- 9 soundings were “fast fall” soundings, and 8 were “partial fast-fall”
- Launch detect errors:
  - 7 early launch detects
  - 4 failed launch detects
  - 0 late launch detects (greater than 1½ second)

PREDICT Region Moored Buoy Locations



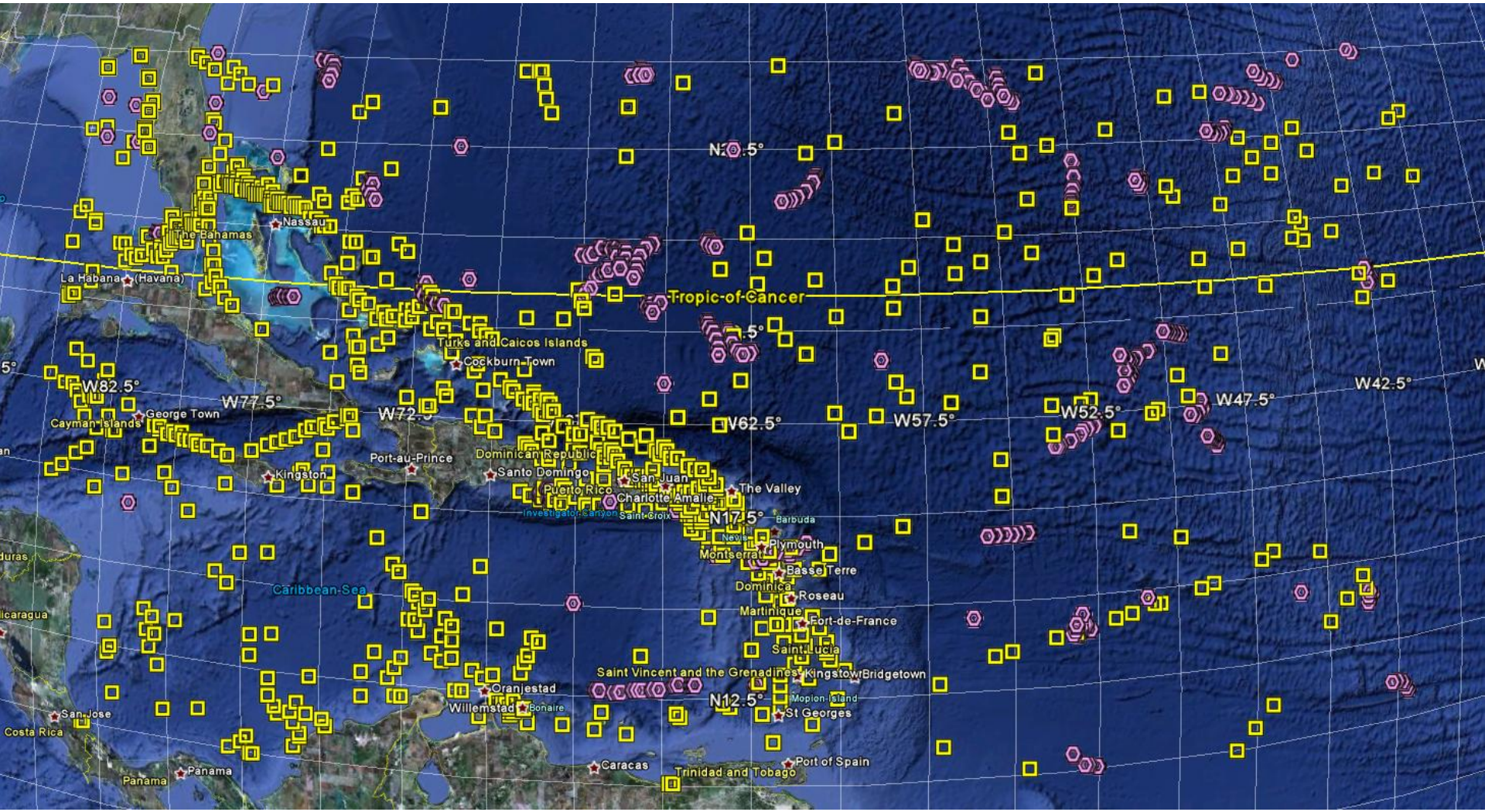
PREDICT Region METAR and SYNOP Observation Locations



SYNOP Observations

METAR Observations

PREDICT Region Ship and Drifting Buoy Observations on GTS*



* Sample 5-day period

Ship Observations

Drifting Buoy Observations

PREDICT

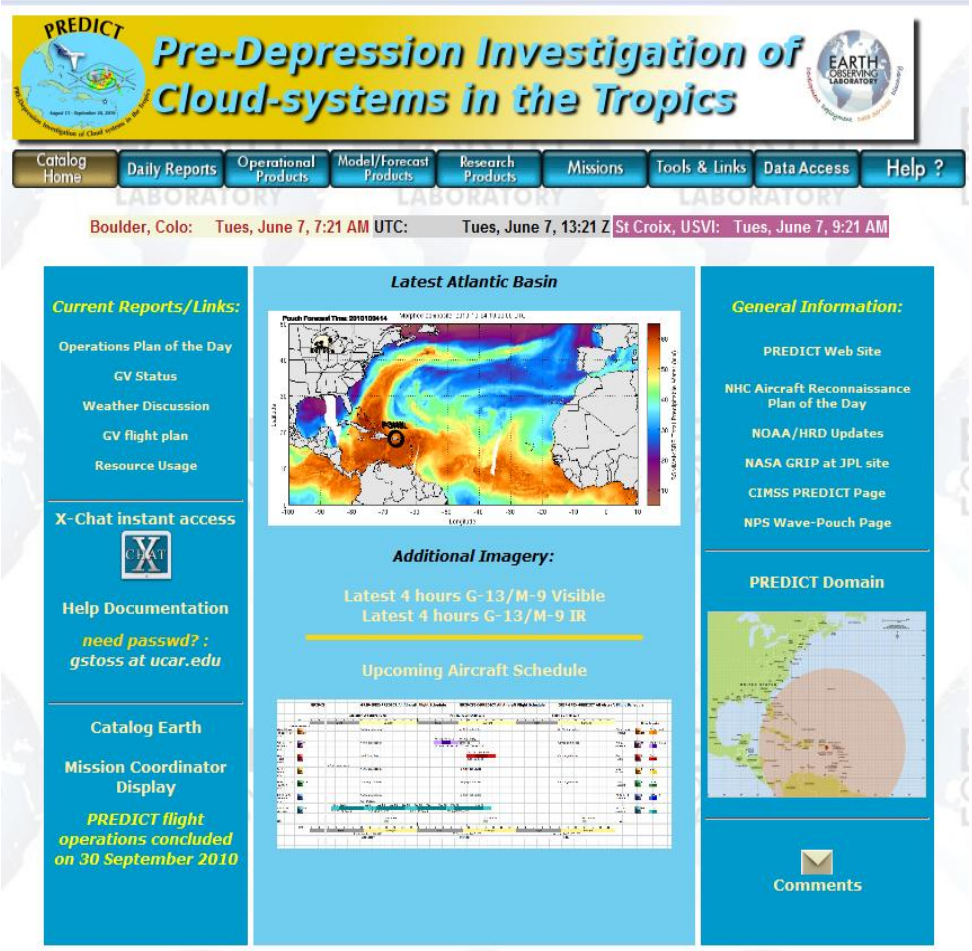
August 15 - September 30, 2010

PREDepression Investigation of Cloud systems in the Tropics

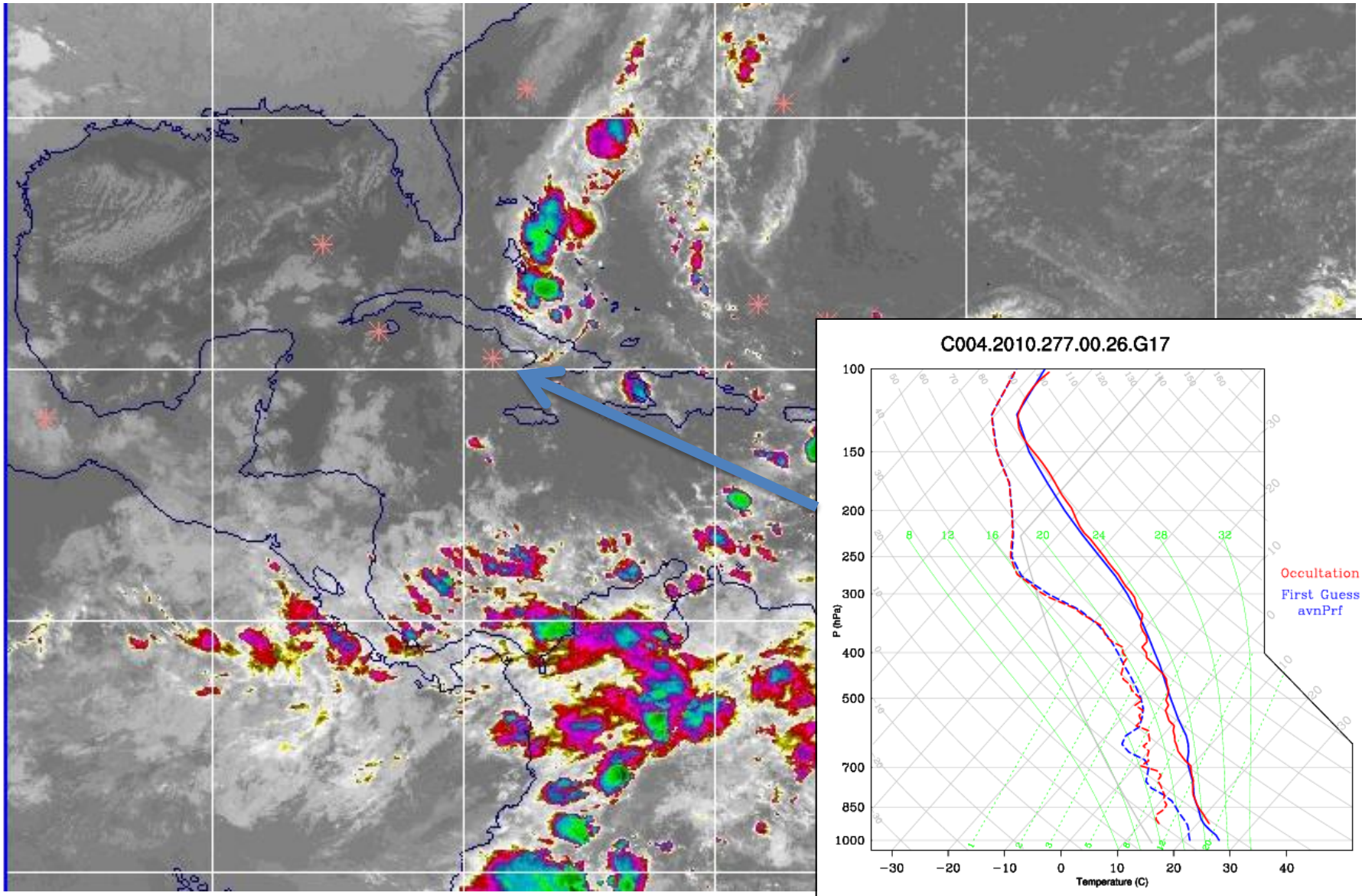
EOL FIELD CATALOG TOOL

In-field tool to ingest and display operational and preliminary research data and project documentation for making real-time decisions and evaluating project progress

- Daily Mission Reports
- Operations Summary
- Facility Status Reports
- Data Analysis Products
- Authoring Tools
- Web-based access



INTERACTIVE COSMIC SOUNDING FEATURE



Flight	Date	System	Operations Area	Maximum Intensity During System Lifetime	Catalog Products	GV Dropsonde kmls	DC8 Dropsonde kmls	Flight Summary	Notes
RF01	Aug 15	Disturbance	Western Atlantic	Disturbance	Operational Model Research	Points 1000mb Winds 925mb Winds 850mb Winds 700mb Winds 500mb Winds 250mb Winds		Mission Scientist Summary Science Director Summary	Shakedown/Investigation of stalled frontal boundary and upper tropospheric shear line in the vicinity of the Bahamas.
RF02	Aug 17	PGI27L	Caribbean	Disturbance	Operational Model Research	Points 1000mb Winds 925mb Winds 850mb Winds 700mb Winds 500mb Winds 250mb Winds		Mission Scientist Summary Science Director Summary	First mission into PGI27L which had only recently begun to develop deep convection.
RF03	Aug 18	PGI27L	Caribbean	Disturbance	Operational Model Research	Points 1000mb Winds 925mb Winds 850mb Winds 700mb Winds		Mission Scientist Summary Science	Second mission into PGI27L during which a large MCS developed in the northeastern part of the flight region.

PREDICT FIELD CATALOG MODEL OUTPUT "GRID"

Forecast Times(UTC)	15 Sep 2010																								16 Sep 2010																					
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	2
WRF_4km_hur - Analysis and Forecast from 2010/09/15 00:00 UTC																																														
0-5km_shear	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr	37hr	38hr	39hr	40hr	41hr	42hr	43hr	44hr	4
300mb	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr	37hr	38hr	39hr	40hr	41hr	42hr	43hr	44hr	4
500mb	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr	37hr	38hr	39hr	40hr	41hr	42hr	43hr	44hr	4
700mb	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr	37hr	38hr	39hr	40hr	41hr	42hr	43hr	44hr	4
850mb	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr	37hr	38hr	39hr	40hr	41hr	42hr	43hr	44hr	4
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mslp	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr	37hr	38hr	39hr	40hr	41hr	42hr	43hr	44hr	4
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precip_mix_ratio	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr	37hr	38hr	39hr	40hr	41hr	42hr	43hr	44hr	4
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tot_precip_water	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr	37hr	38hr	39hr	40hr	41hr	42hr	43hr	44hr	4
WRF_4km_hur - Analysis and Forecast from 2010/09/15 12:00 UTC																																													
0-5km_shear													00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	3
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500mb													00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	3
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850mb													00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	3
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mslp													00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	3
precip_explicit													00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	3
precip_mix_ratio													00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	3
reflectivity													00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	3
sfc_dew													00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	3
sfc_winds													00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	3

Pre-Depression Investigation of Cloud-systems in the Tropics

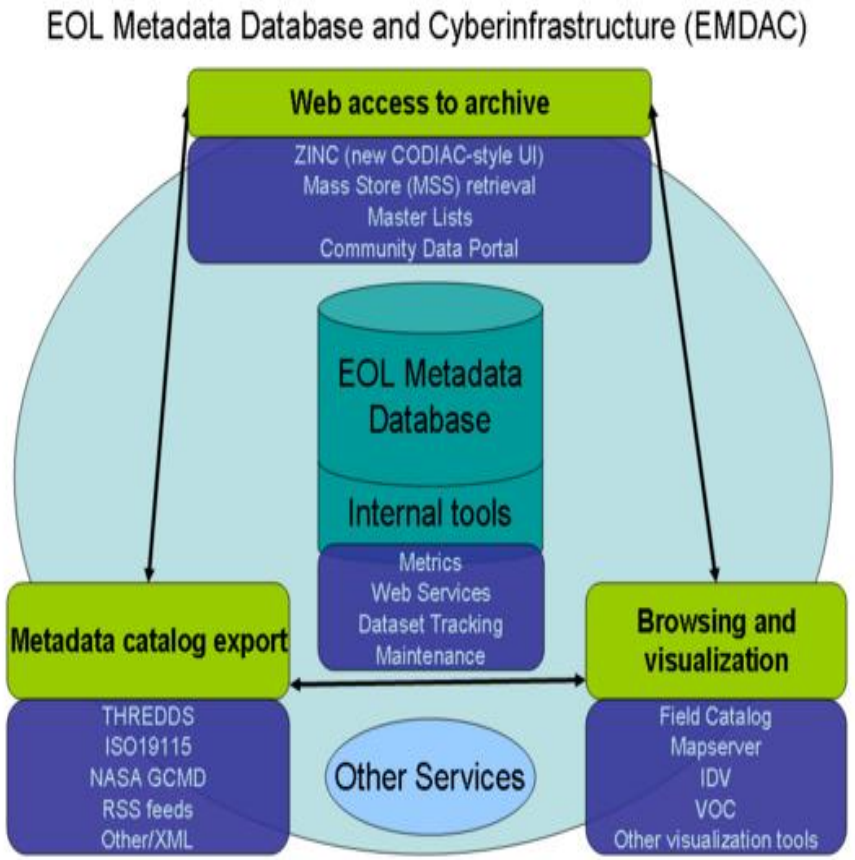
http://catalog.eol.ucar.edu/predict/

- **Reports/Summaries (Status, Mission, and Operations)**
  705 documents and 1,497 image files (0.67 GB)
- **Research Platform Products (Aircraft, Surface, Upper Air)**
  4,536 image files (5.10 GB)
- **Google Earth Products and Maps**
  191,516 files (98.93 GB)
- **Operational Products (Satellite, Surface, Ship, Radar, Upper Air)**
  244,612 image files (131.0 GB)
- **Model Output Imagery (Analysis and Forecast Fields)**
  259,283 image files (17.0 GB)
- **Preliminary Data**
  4,780 files (2.60 GB)

- **TOTALS: 706,929 Files (255.29 GB)**

NCAR Earth Observing Laboratory

EOL DATA MANAGEMENT



EOL Data Management System (EMDAC)

Primary means for all project scientists and researchers to browse and retrieve data from any EOL-supported projects

Features:

- **Long-term field project data archival and distribution**
- **Interactive data browsing, subsetting, and format translation**
- **Web-based access**
- **Value-added datasets**
- **Data documentation**

PREDICT DISTRIBUTED ARCHIVE DATASET "MASTER LIST"

DATA BY CATEGORY

- Accompanying Archives
- Aircraft
- Satellite
- Upper Air

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Email comments & questions to *codiac@ucar.edu*

Aircraft: NSF/NCAR GV		
AVAPS (Airborne Vertical Atmospheric Profiling System) GPS Dropsonde System [NCAR/EOL]		READ ME
Chemistry Fast Ozone (O3) [Campos NCAR/RAF]		
Cloud Counterflow Virtual Impactor (CVI) [Twohy]		READ ME
Cloud Particle Imager (3V-CPI) [NCAR/RAF]		
Digital Camera Imagery (Forward-facing) [NCAR/RAF]	2010-10-04	READ ME
Digital Camera Imagery (Left-facing) [NCAR/RAF]	2010-10-05	READ ME
Digital Camera Imagery (Right-facing) [NCAR/RAF]	2010-10-05	READ ME
Digital Camera Movies - Preliminary [NCAR/RAF]	*Preliminary* 2010-10-04	READ ME
Digital Camera mpeg4 Movies - Final [NCAR/RAF]	2011-02-16	READ ME
Flight Tracks (Google Earth .kml files) [NCAR/EOL/RAF]	2011-02-02	
GPS Water Vapor Profiler (GISMOS)		
Microwave Temperature Profiler (MTP) [Mahoney JPL / Haggerty NCAR/RAF]		
Navigation, State Parameter, and Microphysics Flight-Level Data - Low Rate (LRT - 1 sps) [NCAR/RAF]	**Updated 2011-05-12**	READ ME
NSF/NCAR GV Dropsonde Data (EOL Format) [NCAR/EOL]	2011-02-09	READ ME
PMS-2D Two-dimensional Cloud Probe data [NCAR/EOL/RAF]	**Updated 2011-05-20**	READ ME
Small Ice Detector Version 2 (SID-2H) [NCAR/RAF]		
Tunable Diode Laser hygrometer (TDL H2O) [Campos NCAR/RAF]		

http://data.eol.ucar.edu/master_list/?project=PREDICT

PREDICT Data Submission Instructions

An initial master list of all PREDICT international data sets (with links) has been compiled to provide easy access to all PREDICT data sets (both operational and research). Data sets are grouped by platform and sorted by data type (i.e., land based, model, radar, etc.). This list will be updated frequently. It is available at: **http://data.eol.ucar.edu /master_list/?project=PREDICT**.

If you collected data for PREDICT, please review this list to verify that your data set(s) are properly named with the appropriate Principal Investigators (PIs) identified. Please e-mail any corrections, additions, or deletions directly to **sfw at ucar.edu**. If you already have your data sets available on-line, please provide the WWW link or FTP access information. Once your data set (with metadata) is available, a link will be provided from the master list WWW page along with a submission date to track future data set upgrades or revisions (if needed).

Please submit your data set(s) (including accompanying metadata or documentation files) to the PREDICT Long-term Data Archive at NCAR/Earth Observing Laboratory (EOL). Documumentation/metadata guidelines are available **here**.

Data set (and metadata) *submission guidelines* are available at: **http://www.eol.ucar.edu/projects/predict/dm/data_submittal.html**, and are shown below.

Please be sure to follow the FTP directions *exactly*. Note that due to security restrictions, you will not be able to use a list command to see the contents of the upper level directories such as /pub.

To expedite matters, the NCAR/EOL has established an anonymous FTP capability to accept your PREDICT data set(s) and metadata. The Internet address is:

FTP: data.eol.ucar.edu
LOGIN: anonymous
PASSWORD: use your e-mail address
cd /pub/incoming/predict

It is very important to send an e-mail to **sfw at ucar.edu**, indicating that the data file(s) have been FTPed, along with the file(s) names, data contact information, any data restrictions, and appropriate file documentation (i.e., data formats, descriptions, acknowledgments, and metadata).

Documentation files may be e-mailed to **sfw at ucar.edu** directly if preferred. *If password protection is required for these data, please indicate this at the time of submission.* You will receive a unique "user ID" and "password" that can be changed at any time upon request. For users without direct Internet access, or if your data set(s) are too large to FTP, you may send digital file(s) on magnetic or optical media (with documentation) by conventional mail to the NCAR/EOL shipping address below.

PREDICT WEB SITE: http://www.eol.ucar.edu/projects/predict/