



Everglades National Park Hydrologic Monitoring Program

Florida Water Resource Monitoring Council
October 9, 2012

National Park Service

South Florida Natural Resources Center



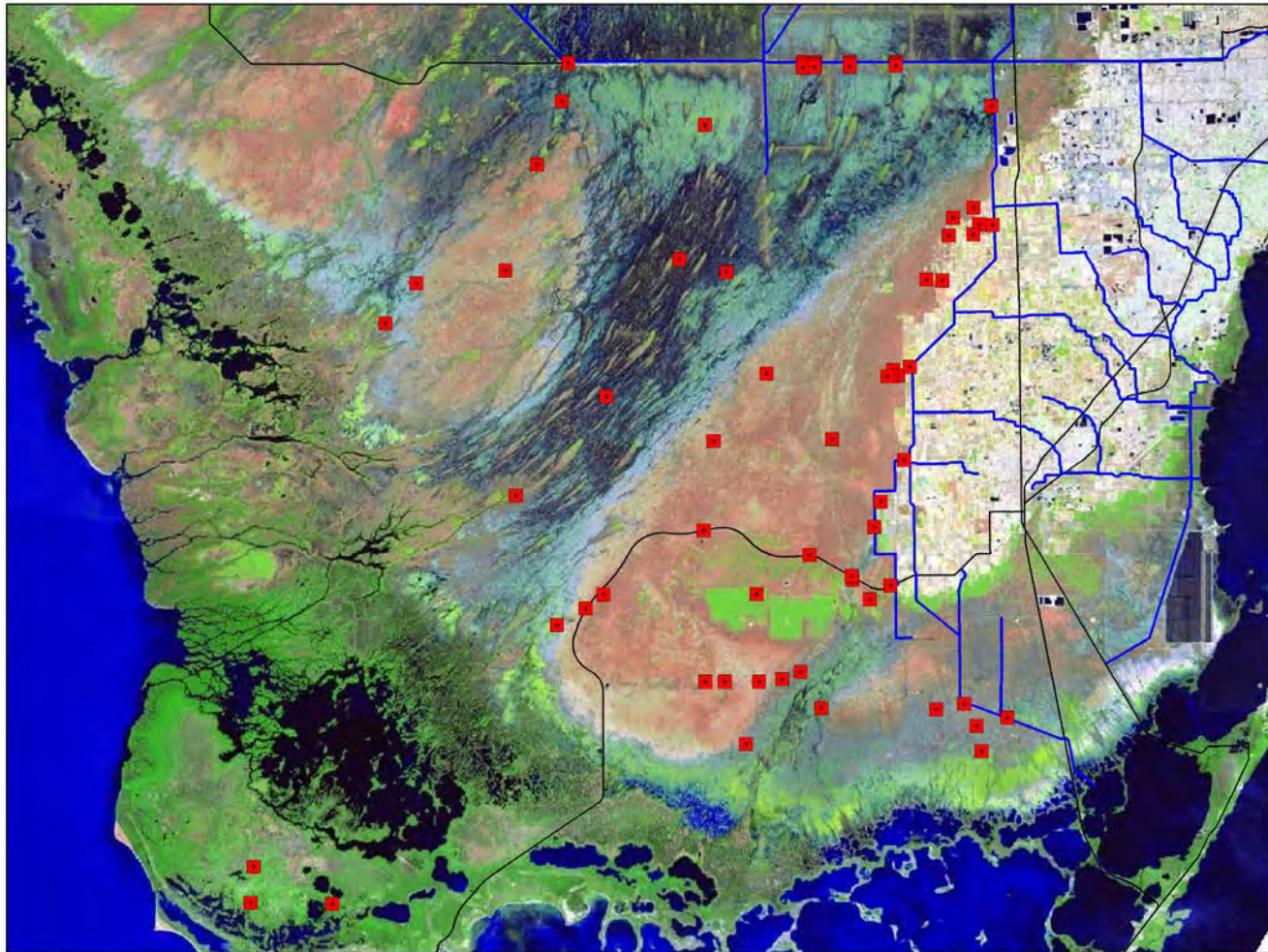
- Fresh Water Marsh Monitoring
 - 65 Stations
 - Primarily Measure Water Level and Rain
 - Sites Furthest Downstream are Being Equipped with Salinity

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Everglades National Park – Marsh Monitoring Network

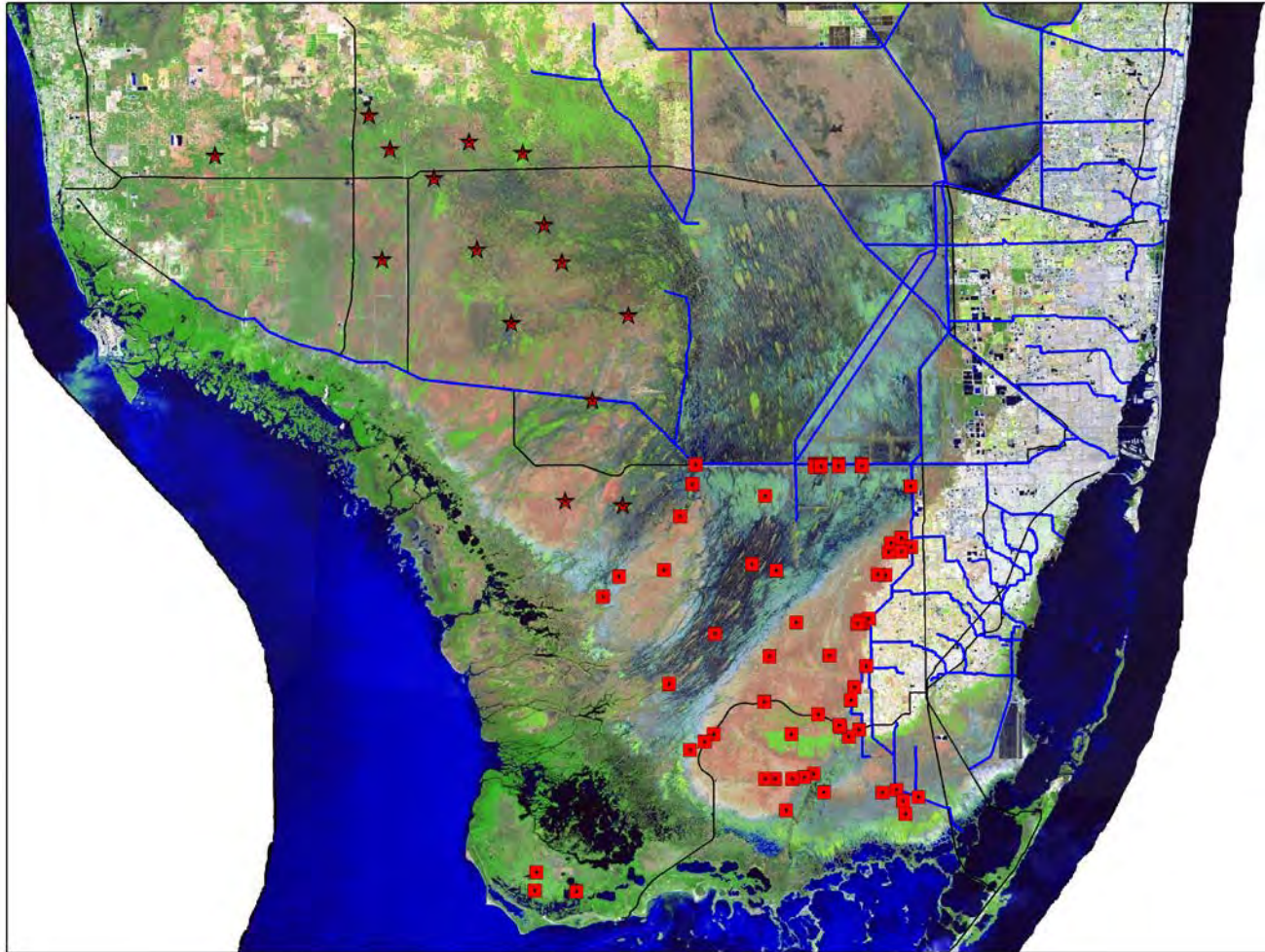


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Everglades and Big Cypress – Marsh Monitoring Network



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- Data Availability
- No Direct Web Access
 - Requests to EVER_data_request@nps.gov
 - Data Transmitted Daily to Interagency Data Exchange
 - And USGS EDEN (NWIS)

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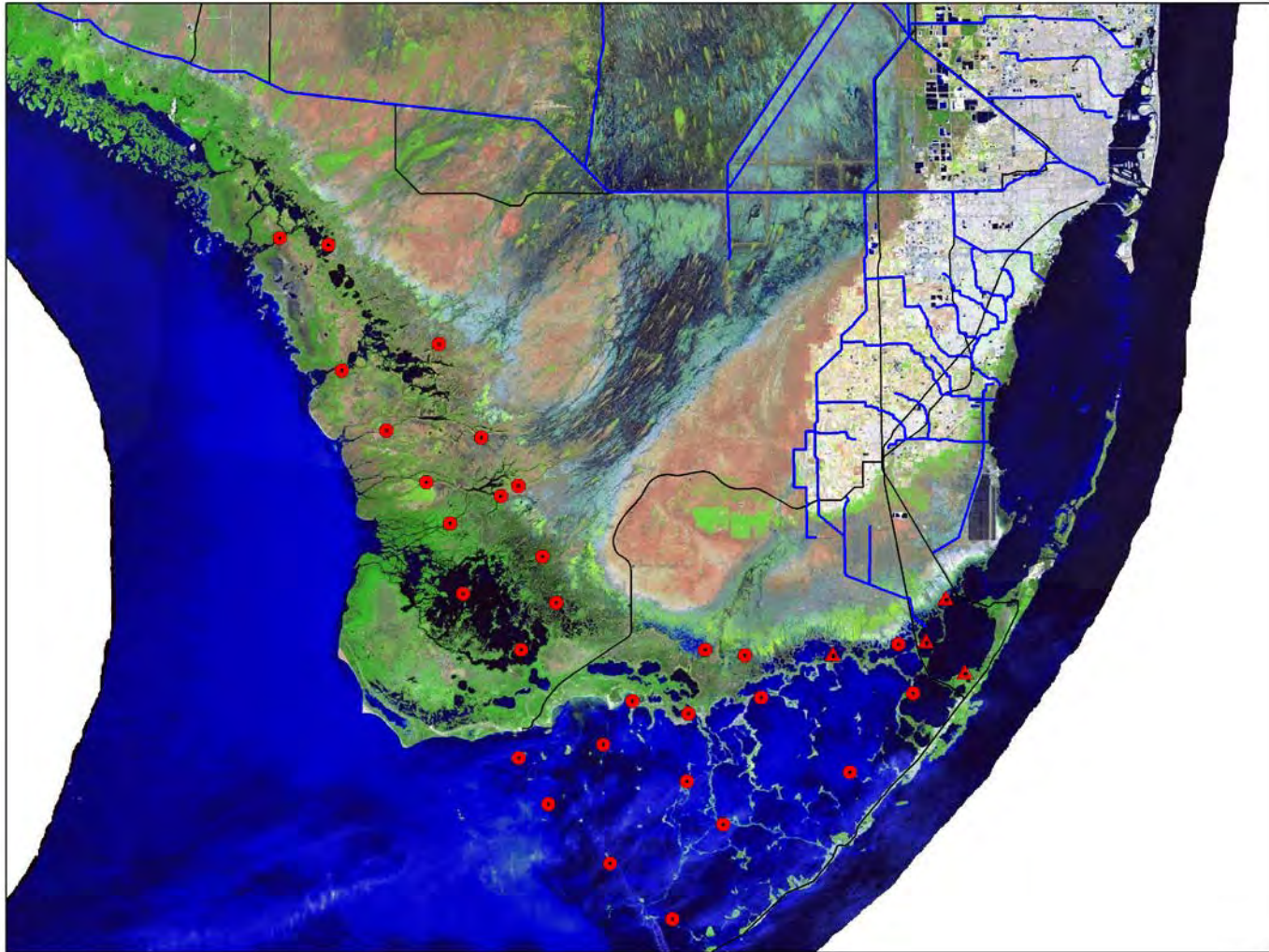
- Marine Monitoring
 - 36 Stations
 - Primarily Measure Salinity, Water Temperature
 - Water Level and Rain
 - Funding Support from SFWMD

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Everglades National Park – Marine Monitoring Network



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- Data Availability
- No Direct Web Access
 - Requests to EVER_data_request@nps.gov
- Data Transmitted Daily to National Data Buoy Center
- Sensor Observation Service Provides to Google Earth

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Google Earth

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Fly to e.g., Reservoir Rd. Clayville, NY

19475 SW 344th homestead fl

19475 SW 344th St. Homestead.
S8 pump station (1 - 1)
west point
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Show or hide roads, borders and other items in the 3D viewer

Reported Site

C109_Terminus

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Image U.S. Geological Survey
Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Google earth

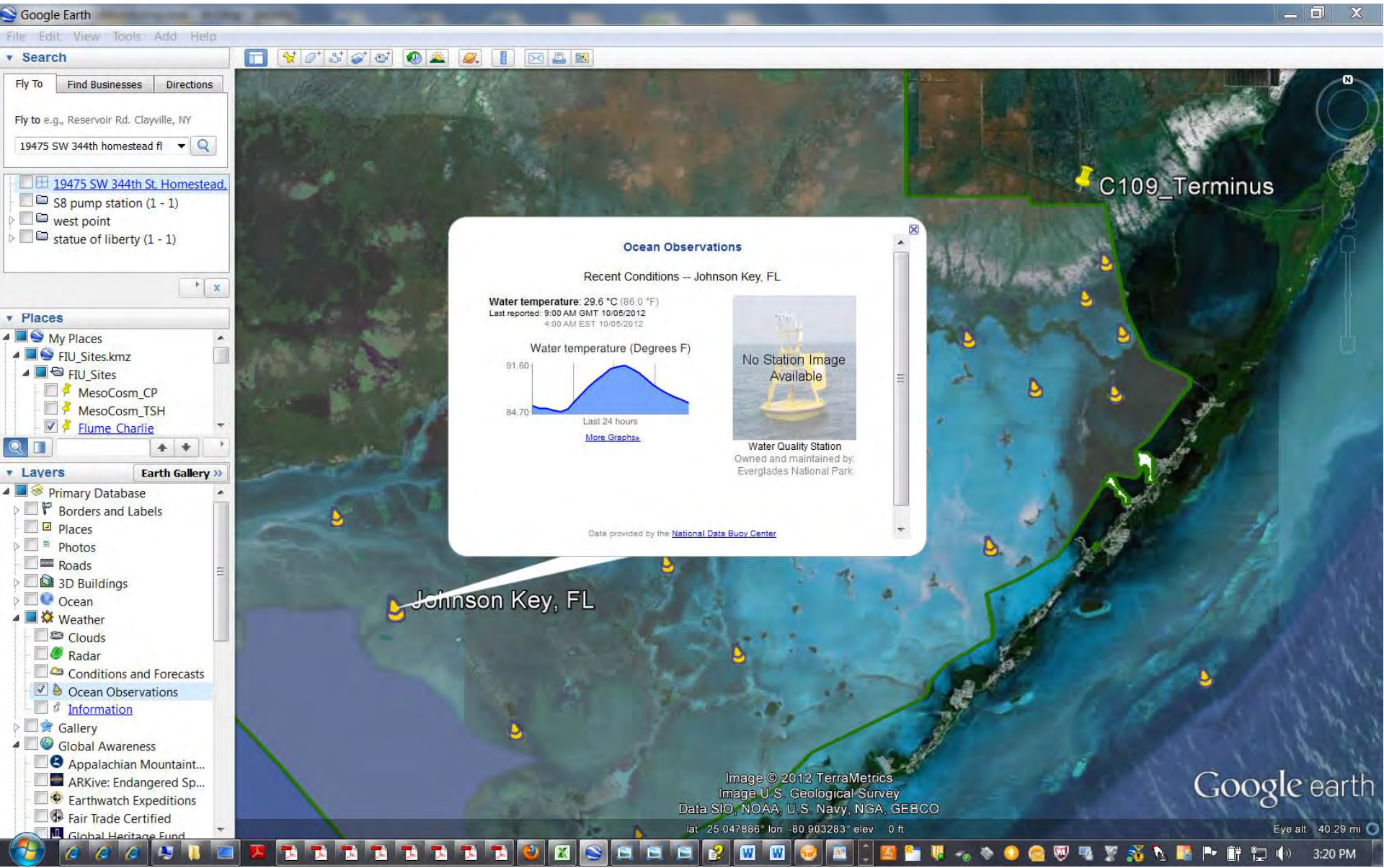
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Eye alt: 40.29 mi

3:18 PM

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National Data Buoy Center - Mozilla Firefox

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National Data Buoy Center

http://www.ndbc.noaa.gov/

key reference noaa Data nps weather operations



National Oceanic and Atmospheric Administration's

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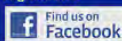
Station Status

NDBC Maintenance

NDBC Platforms

Partner Platforms

Program Info



NDBC on Facebook

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Met/Ocean

Moored Buoy

C-MAN

TAO

DART®

VOS

CSP

IOOS® Program

IOOS® DAC

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NDBC DQC Handbook

☒ Recent Data ☐ Historical Data ☐ Show Labels

Program Filter:

☐ NDBC Meteorological/Ocean

☐ International Partners

☐ IOOS Partners

Owner Filter:

☐ NDBC

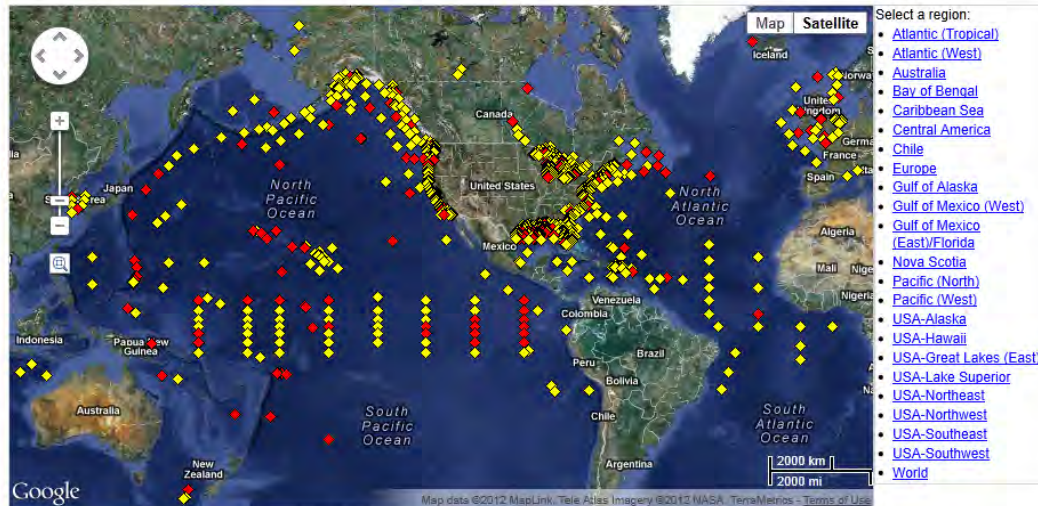
☐ Amerasia Hess

☐ Anadarko

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To view observations, left-click a marker on the map.

To zoom the map, use the zoom slider on the map; or hold down the **Shift** key while dragging a box; or click the magnifying glass below the zoom slider to turn drag zoom on and off.



Mouse Cursor Coordinates:

1175 stations deployed

934 have reported in the past 8 hours

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http://www.ndbc.noaa.gov/

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☐ IOOS Partners

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☒ Everglades National Park
☐ ExxonMobil

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Map Satellite

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[USA-Southeast](#)
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Mouse Cursor Coordinates: **25.28N, 80.76W**

Stations with recent data
28 Everglades National Park stations deployed
Stations with historical data only
28 have reported in the past 8 hours

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http://www.ndbc.noaa.gov/

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☐ International Partners
☐ IOOS Partners

Owner Filter:
☒ Everglades National Park
☐ ExxonMobil

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Station LBRF1
Everglades National Park
Location: 25.484N 81.111W
Date: Fri, 05 Oct 2012 16:00:00 UTC
Water Temperature: 84.2 F
Tide: -0.84 ft (above MLLW)
[View Details](#) [View History](#)

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Map Satellite

20 km
20 mi

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Mouse Cursor Coordinates: 25.53N, 81.31W

28 Everglades National Park stations deployed
28 have reported in the past 8 hours

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NDBC - Station LBRF1 - Mozilla Firefox

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National Data Buoy Center NDBC - Station LBRF1 NDBC - Station LBRF1

http://www.ndbc.noaa.gov/station_page.php?station=lbrf1

key reference noaa Data nps weather operations

Large icon indicates selected station. [Disclaimer](#)
♦ Stations with recent data
♦ Stations with no data in last 8 hours
(24 hours for tsunami stations)

**Conditions at LBRF1 as of
(12:00 pm EDT)
1600 GMT on 10/05/2012:**

Note: This report is more than two hours old

Unit of Measure: English Time Zone: Station Local Time

Click on the graph icon in the table below to see a time series plot of the last 24 hours of that observation.

	Water Temperature (WTMP):	84.2 °F
	Salinity (SAL):	1.20 psu
	Tide (above MLLW) (TIDE):	-0.84 ft

Previous observations

MM	DD	TIME (EDT)	WDIR	WSPD	GST	WVHT	DPD	APD	MWD	PRES	PTDY	ATMP	WTMP	DEWP	SAL	VIS	TIDE
				kts	kts	ft	sec	sec		in	in	°F	°F	°F	psu	nmi	ft
10	05	11:00 am	-	-	-	-	-	-	-	-	-	-	84.4	-1.23	-0.65		
10	05	10:00 am	-	-	-	-	-	-	-	-	-	-	84.2	-1.19	-0.35		
10	05	9:00 am	-	-	-	-	-	-	-	-	-	-	84.0	-1.26	-0.06		
10	05	8:00 am	-	-	-	-	-	-	-	-	-	-	83.8	-1.28	0.61		
10	05	7:00 am	-	-	-	-	-	-	-	-	-	-	83.7	-1.35	-1.17		
10	05	6:00 am	-	-	-	-	-	-	-	-	-	-	83.7	-1.34	-1.74		
10	05	5:00 am	-	-	-	-	-	-	-	-	-	-	84.0	-1.22	-1.89		
10	05	4:00 am	-	-	-	-	-	-	-	-	-	-	84.0	-1.14	-2.17		
10	05	3:00 am	-	-	-	-	-	-	-	-	-	-	84.4	-1.07	-1.90		
10	05	2:00 am	-	-	-	-	-	-	-	-	-	-	84.4	-1.06	-1.53		
10	05	12:00 am	-	-	-	-	-	-	-	-	-	-	84.4	-1.11	-0.15		
10	04	11:00 pm	-	-	-	-	-	-	-	-	-	-	84.2	-1.17	-0.03		
10	04	10:00 pm	-	-	-	-	-	-	-	-	-	-	84.2	-1.20	0.11		
10	04	9:00 pm	-	-	-	-	-	-	-	-	-	-	84.0	-1.30	0.35		
10	04	8:00 pm	-	-	-	-	-	-	-	-	-	-	84.4	-1.38	0.80		
10	04	7:00 pm	-	-	-	-	-	-	-	-	-	-	85.1	-1.55	1.41		
10	04	6:00 pm	-	-	-	-	-	-	-	-	-	-	84.9	-1.46	2.15		
10	04	5:00 pm	-	-	-	-	-	-	-	-	-	-	84.6	-1.25	2.30		
10	04	4:00 pm	-	-	-	-	-	-	-	-	-	-	83.8	-1.15	2.14		
10	04	3:00 pm	-	-	-	-	-	-	-	-	-	-	84.0	-1.01	1.64		

http://www.ndbc.noaa.gov/show_plot.php?station=lbrf1&meas=salt&uom=E&time_diff=-4&time_label=EDT

USA.gov

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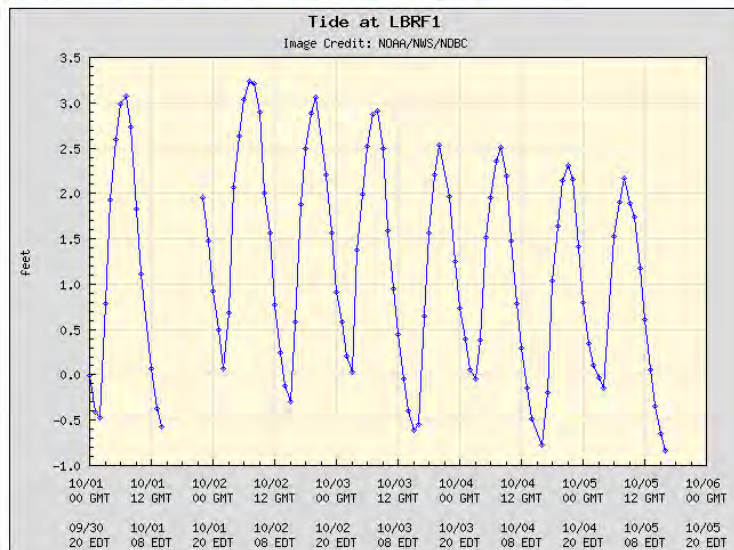
NDBC - 5-day plot - Tide at LBRF1 - Mozilla Firefox

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National Data Buoy Center NDBC - 5-day plot - Tide at L... NDBC - Station LBRF1

http://www.ndbc.noaa.gov/show_plot.php?station=lbrf1&meas=tide&uom=E&time_diff=-4&time_label=EDT

key reference noaa Data nps weather operations



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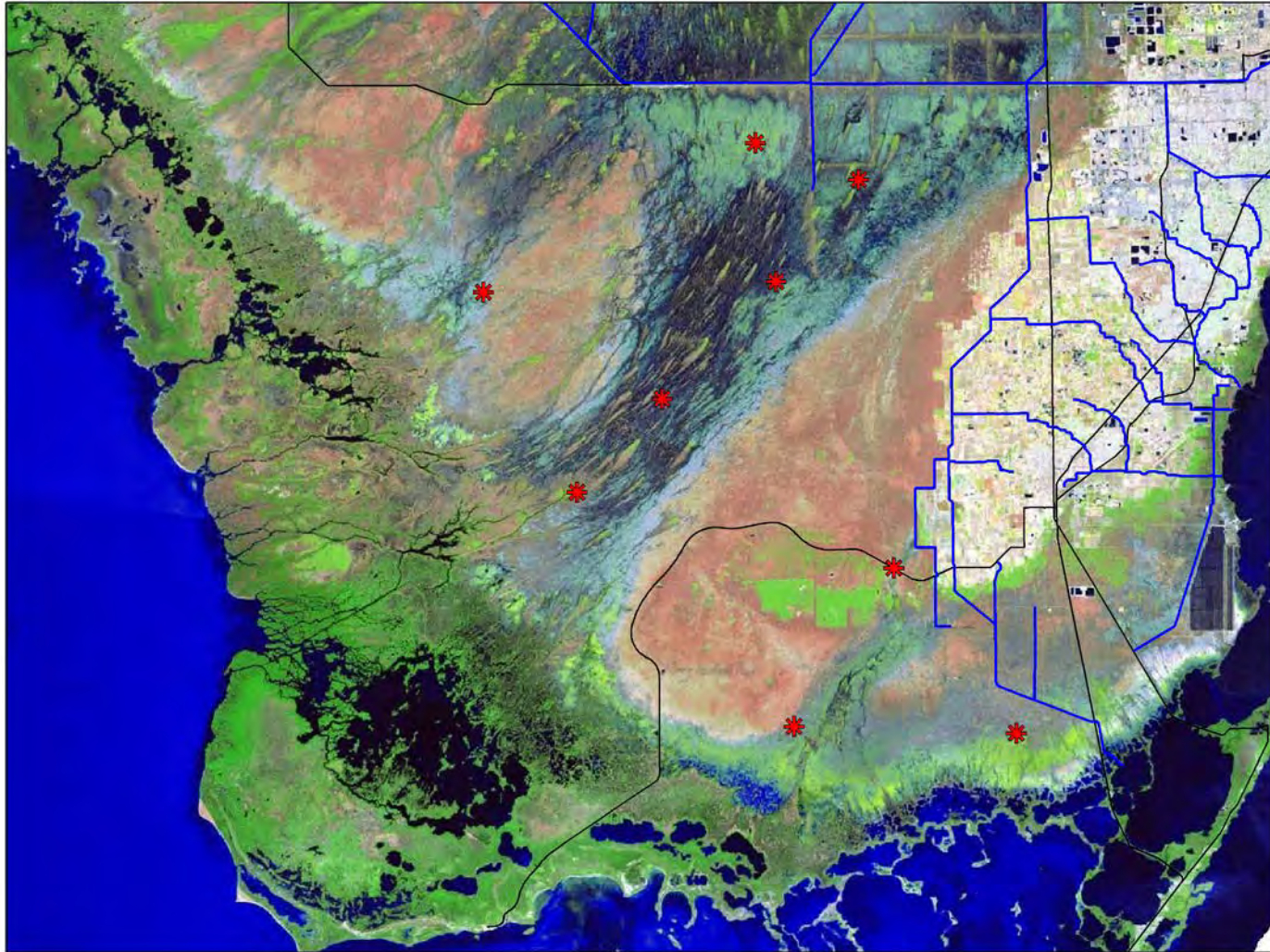
- Water Quality Monitoring
 - 9 Stations
 - Primarily Measure Nutrients, Cations/Ions
 - Funding Support from SFWMD

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Everglades National Park – WQ Monitoring Network



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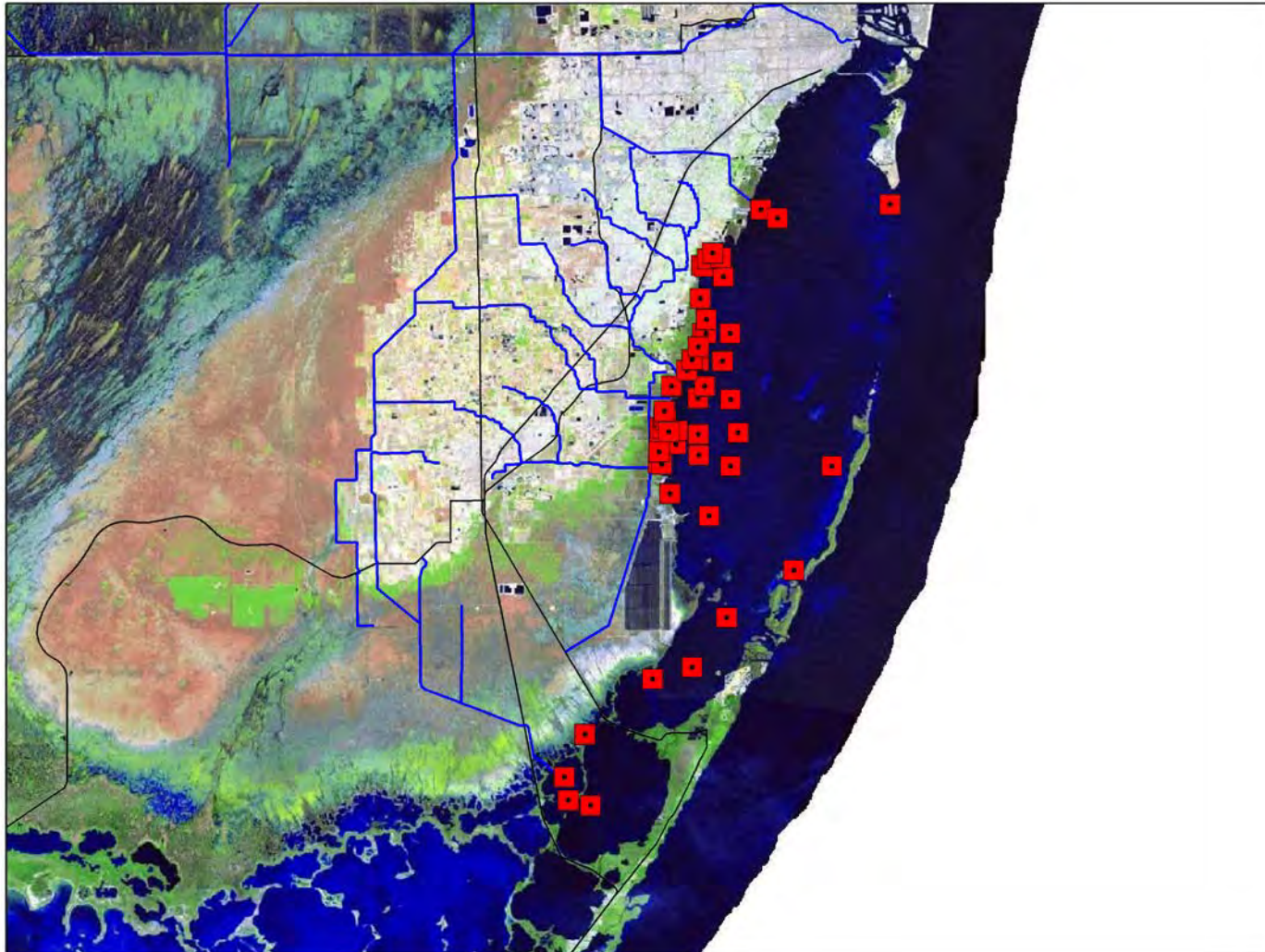
- Biscayne National Park Marine Monitoring
 - 18 Stations
 - Primarily Measure Salinity and Water Temperature
 - Funding Support from CERP Monitoring and Assessment
 - Program

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Biscayne National Park – Marine Monitoring Network

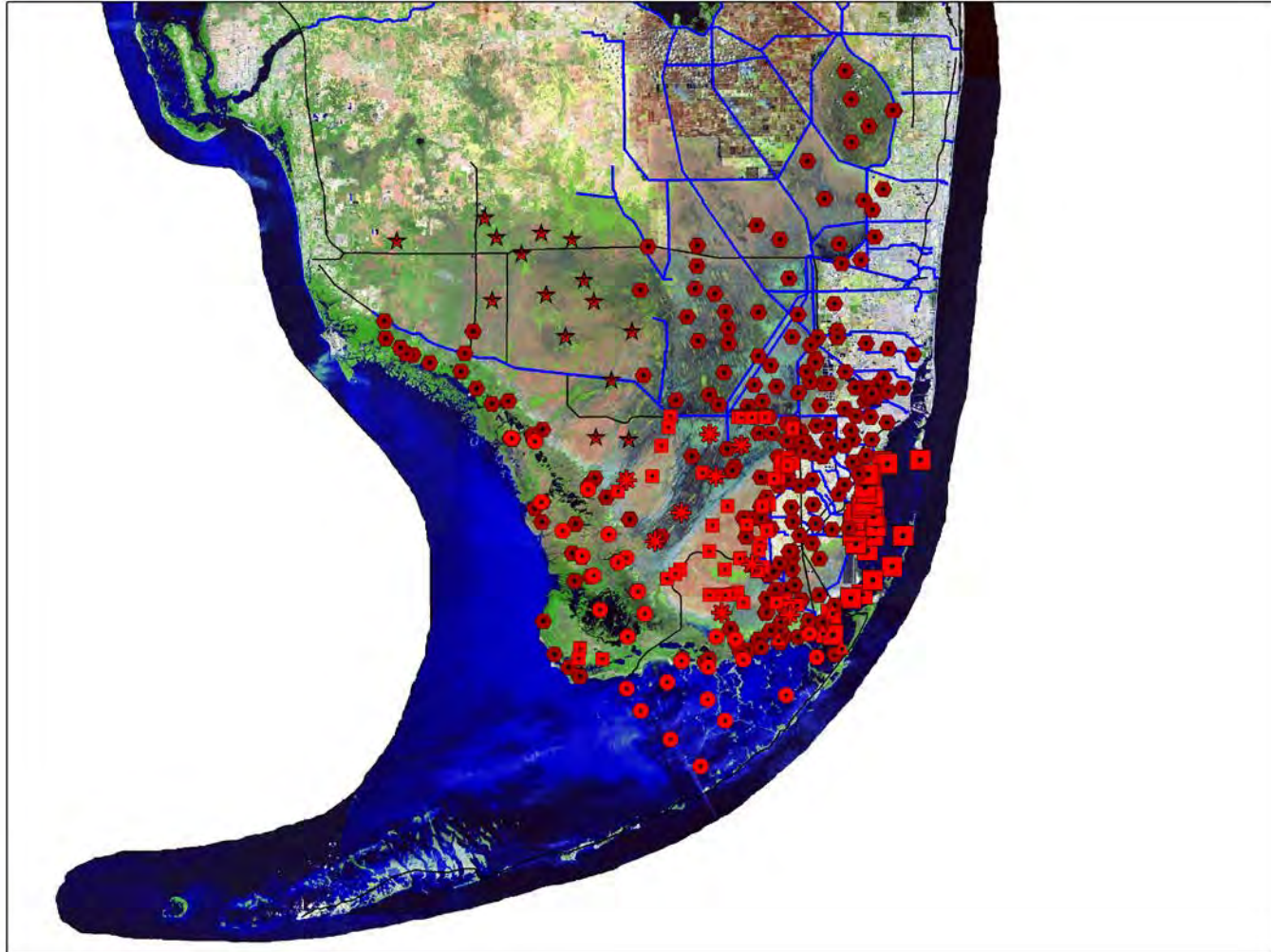


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USGS / NPS Monitoring Stations in South Florida

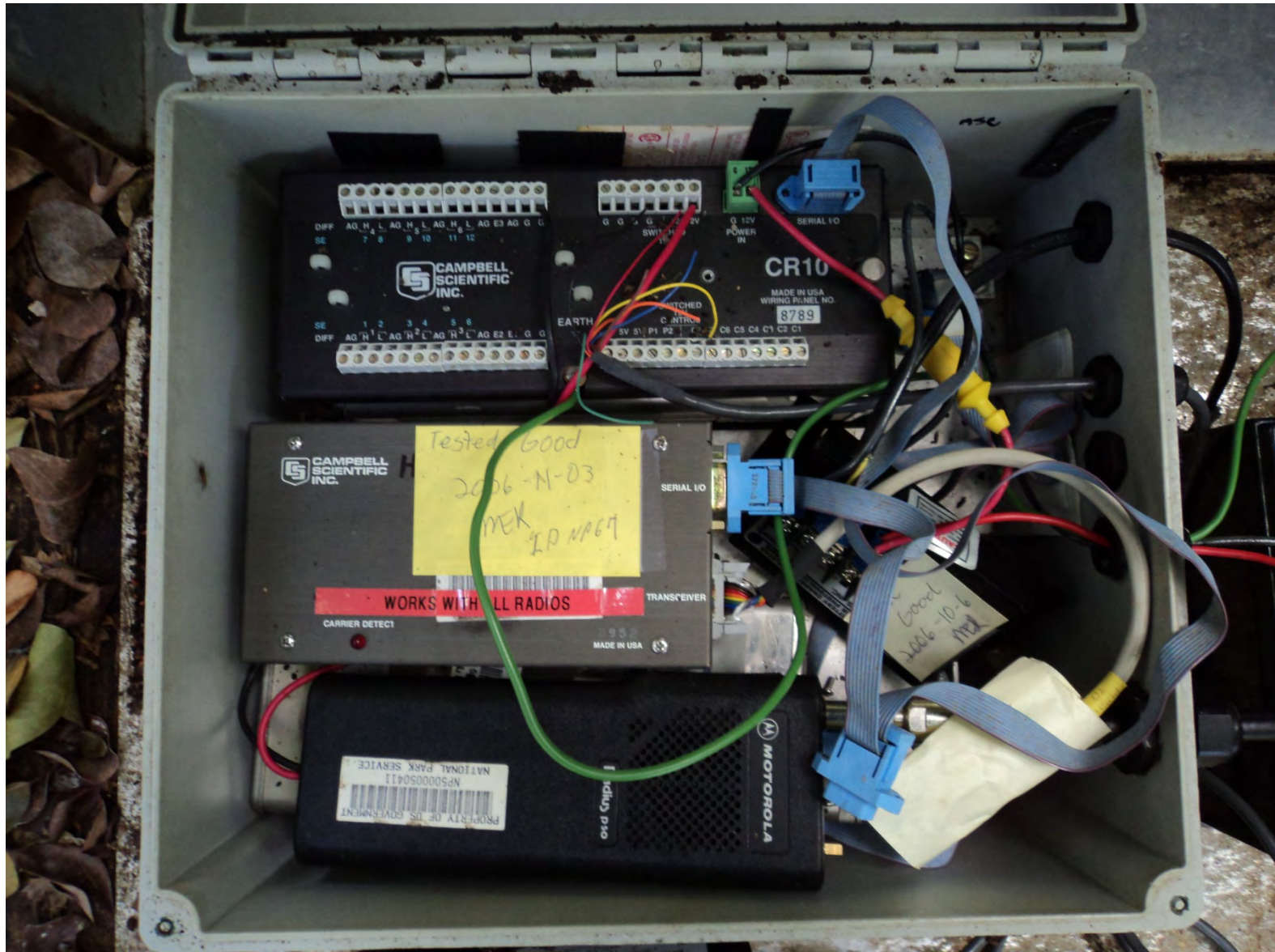


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Kevin_Kotun@nps.gov

Chief, Physical Resources Branch

Everglades National Park

O: 305.224.4229

M: 305.972.3640

Data Requests:

EVER_data_request@nps.gov