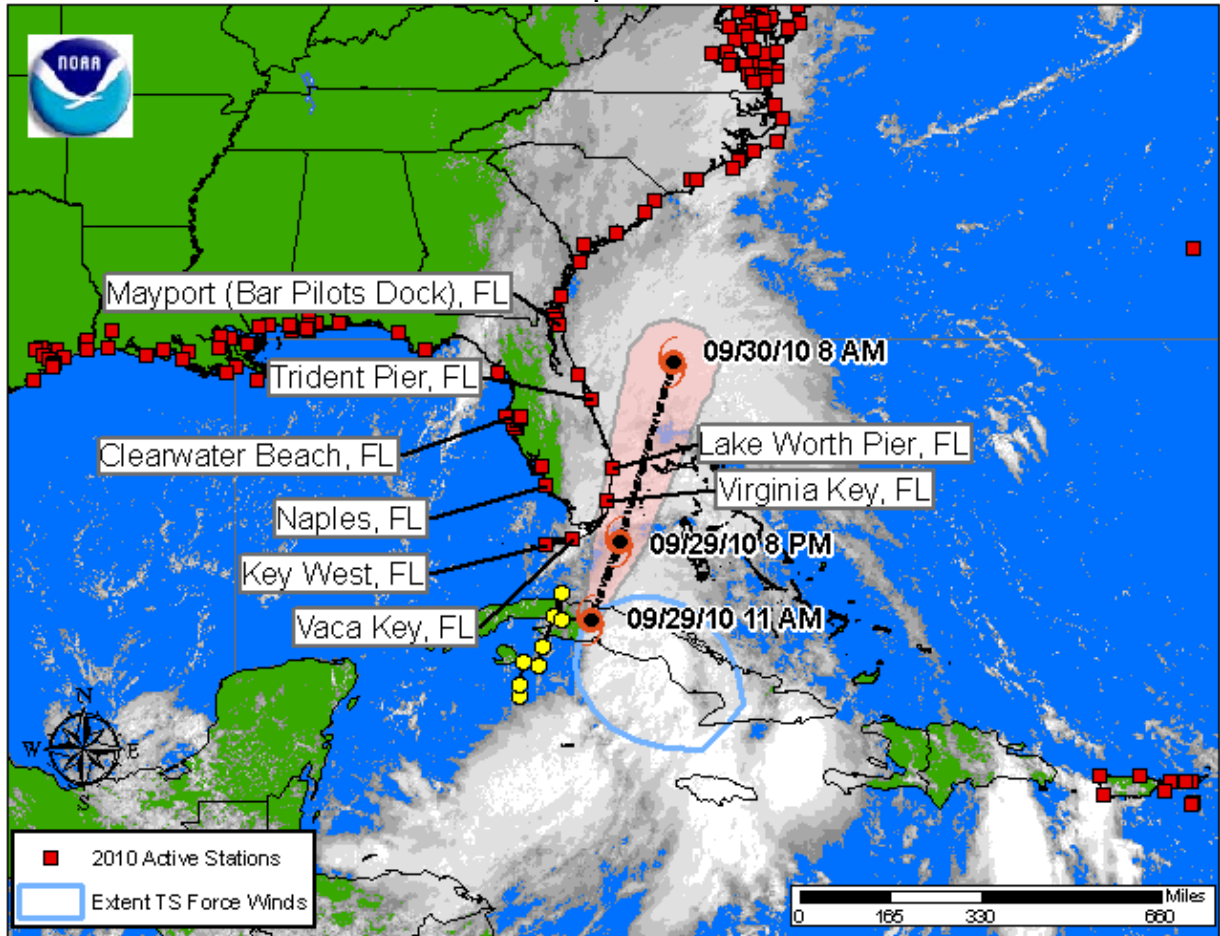




Tropical Storm NICOLE QuickLook
Posted: 12:00 EDT 09/29/2010

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 09/29/2010 12:00 EDT, water levels across Florida Keys and southern Florida are up to 0.8 feet above predicted. Barometric pressure is falling across the region.

Winds are generally below 12 knots across the region currently gusting up to 17 knots at Trident Pier, FL.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Key West, FL Next predicted high tides are 1.30 ft (0.40 m) at 09/29/2010 15:16 EDT and 2.11 ft (0.64 m) at 09/30/2010 02:12 EDT.

Vaca Key, FL Next predicted high tides are 1.32 ft (0.40 m) at 09/30/2010 06:27 EDT and 1.28 ft

(0.39 m) at 10/01/2010 07:17 EDT.

Virginia Key, FL Next predicted high tides are 2.37 ft (0.72 m) at 09/29/2010 13:53 EDT and 2.28 ft (0.69 m) at 09/30/2010 01:48 EDT.

Naples, FL Next predicted high tides are 2.32 ft (0.71 m) at 09/29/2010 18:18 EDT and 3.00 ft (0.91 m) at 09/30/2010 03:45 EDT.

Clearwater Beach, FL Next predicted high tides are 1.94 ft (0.59 m) at 09/29/2010 17:18 EDT and 3.00 ft (0.91 m) at 09/30/2010 03:18 EDT.

Lake Worth Pier, FL Next predicted high tides are 3.11 ft (0.95 m) at 09/29/2010 12:41 EDT and 2.94 ft (0.90 m) at 09/30/2010 00:42 EDT.

Trident Pier, FL Next predicted high tides are 4.25 ft (1.30 m) at 09/29/2010 12:27 EDT and 3.33 ft (1.01 m) at 09/30/2010 00:40 EDT.

Mayport (Bar Pilots Dock), FL Next predicted high tides are 5.37 ft (1.64 m) at 09/29/2010 13:10 EDT and 4.65 ft (1.42 m) at 09/30/2010 01:32 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For more information or archived products and reports, please see the [Storm QuickLook Homepage](#).

Analyst: KG

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

**TROPICAL STORM NICOLE ADVISORY NUMBER 5
1100 AM EDT WED SEP 29 2010**

...DEPRESSION BECOMES A TROPICAL STORM...CENTER STILL NEAR CENTRAL CUBA...

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY...

ALL TROPICAL STORM WARNINGS AND WATCHES FOR FLORIDA HAVE BEEN DISCONTINUED.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A TROPICAL STORM WARNING IS IN EFFECT FOR...

- * THE CAYMAN ISLANDS**
- * THE PROVINCES OF CUBA FROM MATANZAS EASTWARD TO CIEGO DE AVILA**
- * THE NORTHWESTERN AND CENTRAL BAHAMAS**

FOR STORM INFORMATION SPECIFIC TO YOUR AREA IN THE UNITED STATES...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE. FOR STORM INFORMATION SPECIFIC TO YOUR AREA OUTSIDE THE UNITED STATES...PLEASE MONITOR PRODUCTS ISSUED BY YOUR NATIONAL METEOROLOGICAL SERVICE.

DISCUSSION AND 48-HOUR OUTLOOK

AT 1100 AM EDT...THE CENTER OF TROPICAL STORM NICOLE WAS LOCATED NEAR LATITUDE 22.6 NORTH...LONGITUDE 80.6 WEST. NICOLE IS MOVING TOWARD THE NORTHEAST NEAR 9 MPH. A MOTION TO THE NORTHEAST ACCOMPANIED BY A GRADUAL INCREASE IN FORWARD SPEED IS EXPECTED DURING THE NEXT 24 HOURS. ON THE FORECAST TRACK...THE CENTER OF NICOLE WILL MOVE OVER THE FLORIDA STRAITS LATER THIS AFTERNOON...AND MOVE NEAR OR OVER THE NORTHWESTERN BAHAMAS TONIGHT.

MAXIMUM SUSTAINED WINDS ARE NEAR 40 MPH...WITH HIGHER GUSTS. LITTLE CHANGE IN STRENGTH IS EXPECTED DURING THE NEXT 24 HOURS...BEFORE NICOLE IS ABSORBED BY AN EXTRATROPICAL LOW ON THURSDAY.

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 345 MILES FROM THE CENTER.

THE MINIMUM CENTRAL PRESSURE BASED ON SURFACE REPORTS FROM CUBA IS 996 MB.

HAZARDS AFFECTING LAND

RAINFALL...NICOLE IS EXPECTED TO PRODUCE TOTAL RAIN ACCUMULATIONS OF 5 TO 10 INCHES OVER THE CAYMAN ISLANDS...JAMAICA...AND CUBA. ISOLATED MAXIMUM AMOUNTS OF 20 INCHES ARE POSSIBLE OVER THE HIGHER ELEVATIONS OF CUBA AND JAMAICA. THESE RAINS COULD CAUSE LIFE-THREATENING FLASH FLOODS AND MUD SLIDES. RAIN ACCUMULATIONS OF 4 TO 8 INCHES ARE POSSIBLE OVER PORTIONS OF SOUTHERN FLORIDA...THE FLORIDA KEYS...AND THE CENTRAL AND NORTHWEST BAHAMAS.

WIND...TROPICAL STORM CONDITIONS ARE EXPECTED IN THE WARNING AREAS TODAY AND TONIGHT.

TORNADOES...ISOLATED TORNADOES ARE POSSIBLE ALONG THE IMMEDIATE COAST OF SOUTHEASTERN FLORIDA AND THE FLORIDA KEYS TODAY.

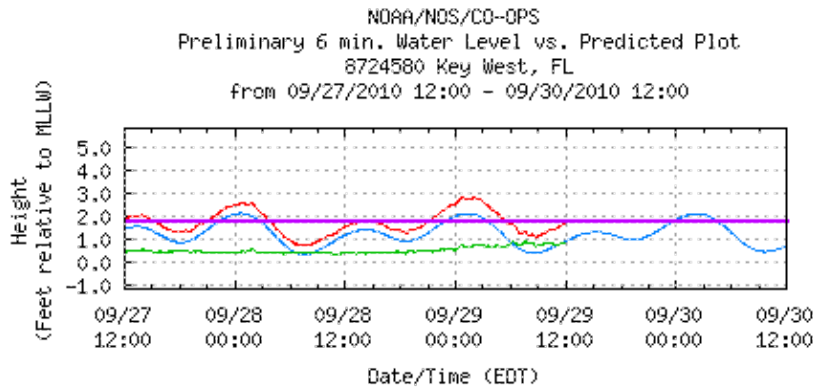
FORECASTER BROWN/PASCH

Tropical Storm NICOLE QuickLook, POSTED 12:00 EDT 09/29/2010

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Key West - Water Level](#), [Key West - Barometric](#), [Key West - Air/Water Temp](#), [Vaca Key - Water Level](#), [Vaca Key - Winds](#), [Vaca Key - Barometric](#), [Vaca Key - Air/Water Temp](#), [Virginia Key - Water Level](#), [Virginia Key - Winds](#), [Virginia Key - Air/Water Temp](#), [Naples - Water Level](#), [Naples - Winds](#), [Naples - Barometric](#), [Lake Worth Pier - Water Level](#), [Lake Worth Pier - Winds](#), [Lake Worth Pier - Barometric](#), [Lake Worth Pier - Air/Water Temp](#), [Clearwater Beach - Water Level](#), [Clearwater Beach - Winds](#), [Clearwater Beach - Barometric](#), [Clearwater Beach - Air/Water Temp](#), [Trident Pier - Water Level](#), [Trident Pier - Winds](#), [Trident Pier - Barometric](#), [Trident Pier - Air/Water Temp](#), [Mayport \(Bar Pilots Dock\) - Water Level](#),

Key West, FL - [Return to List](#)

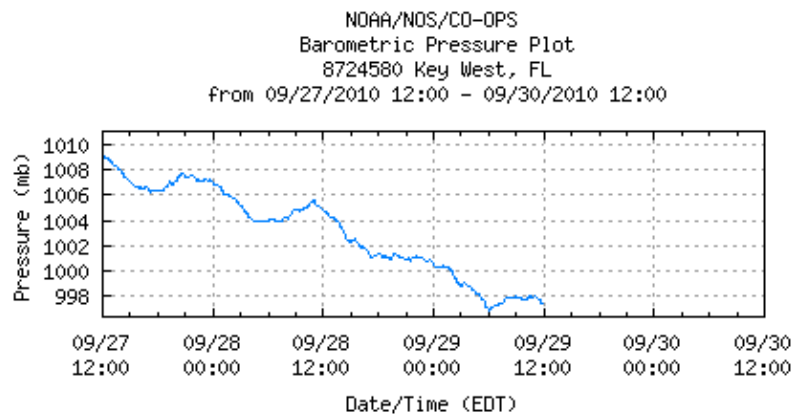


Last Observed Sample: 09/29/2010 11:48 (EDT)

Relative to **MLLW**: **Observed: 1.68 ft.** **Predicted: 0.88 ft.** **Residual: 0.80 ft.**

Historical Maximum Water Level: Oct 24 2005, 3.14 ft. above **MHHW**

Key West, FL - [Return to List](#)

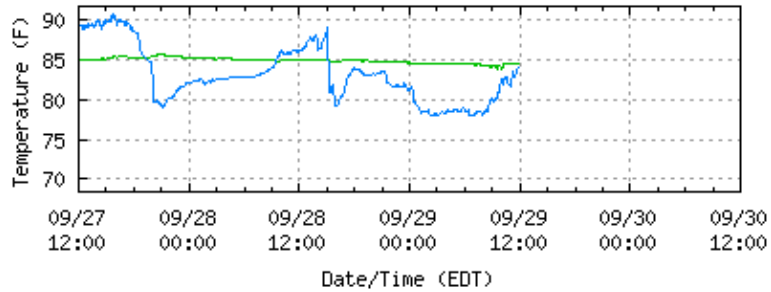


Last Observed Sample: 09/29/2010 11:48 (EDT)

Barometric Pressure: 997.4 mb

Key West, FL - [Return to List](#)

NOAA/NOS/CO-OPS
Air/Water Temperature Plot
8724580 Key West, FL
from 09/27/2010 12:00 - 09/30/2010 12:00



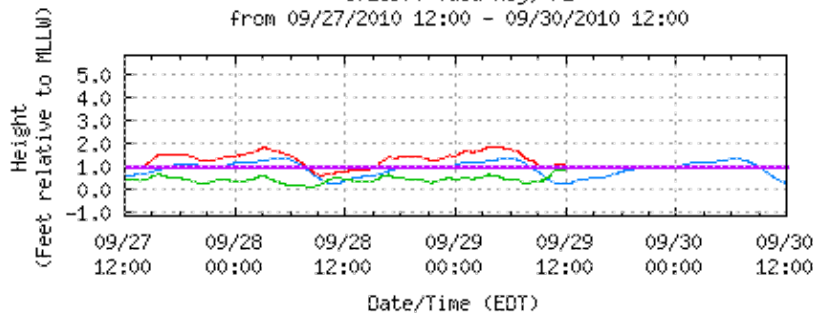
water temp. — water temp. — air temp — air temp —

Last Observed Sample: 09/29/2010 11:48 (EDT)

Water Temperature: 84.6° F Air Temperature: 84.0° F

Vaca Key, FL - [Return to List](#)

NOAA/NOS/CO-OPS
Preliminary 6 min. Water Level vs. Predicted Plot
8723970 Vaca Key, FL
from 09/27/2010 12:00 - 09/30/2010 12:00



Predicted WL — Predicted WL — (Obs-Pred) — (Obs-Pred) —
Observed WL — Observed WL — MHHW — MHHW —

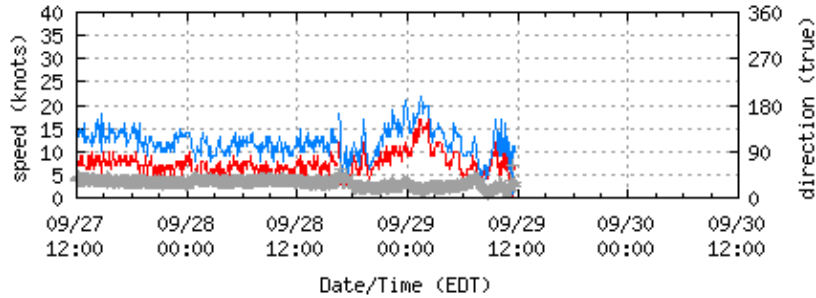
Last Observed Sample: 09/29/2010 11:48 (EDT)

Relative to **MLLW**: Observed: 1.06 ft. Predicted: 0.20 ft. Residual: 0.86 ft.

Historical Maximum Water Level: Oct 7 1974, 1.42 ft. above **MHHW**

Vaca Key, FL - [Return to List](#)

NOAA/NDS/CO-OPS
Wind Speed/Gusts/Dir
8723970 Vaca Key, FL
from 09/27/2010 12:00 - 09/30/2010 12:00



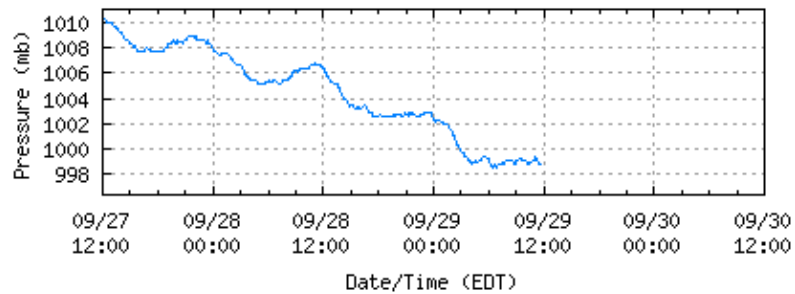
speed — gusts — direction +

Last Observed Sample: 09/29/2010 11:42 (EDT)

Wind Speed: 6 knots Gusts: 10 knots Direction: 022° T

Vaca Key, FL - [Return to List](#)

NOAA/NDS/CO-OPS
Barometric Pressure Plot
8723970 Vaca Key, FL
from 09/27/2010 12:00 - 09/30/2010 12:00



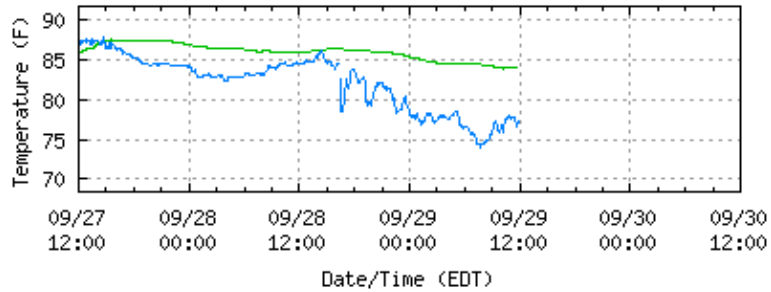
barometric pressure —

Last Observed Sample: 09/29/2010 11:42 (EDT)

Barometric Pressure: 998.7 mb

Vaca Key, FL - [Return to List](#)

NOAA/NOS/CO-OPS
Air/Water Temperature Plot
8723970 Vaca Key, FL
from 09/27/2010 12:00 - 09/30/2010 12:00



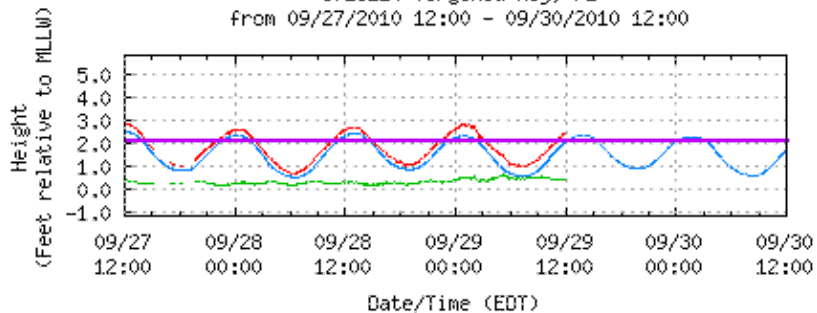
water temp. — air temp —

Last Observed Sample: 09/29/2010 11:48 (EDT)

Water Temperature: n/a Air Temperature: 77.4° F

Virginia Key, FL - [Return to List](#)

NOAA/NOS/CO-OPS
Preliminary 6 min. Water Level vs. Predicted Plot
8723214 Virginia Key, FL
from 09/27/2010 12:00 - 09/30/2010 12:00



Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

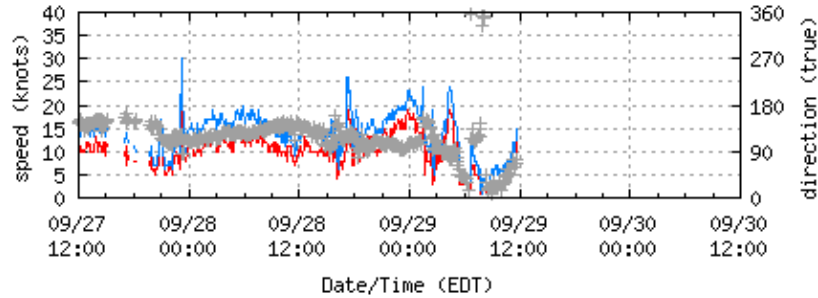
Last Observed Sample: 09/29/2010 11:48 (EDT)

Relative to **MLLW**: Observed: 2.44 ft. Predicted: 2.00 ft. Residual: 0.44 ft.

Historical Maximum Water Level: Oct 24 2005, 2.58 ft. above **MHHW**

Virginia Key, FL - [Return to List](#)

NOAA/NOS/CO-OPS
Wind Speed/Gusts/Dir
8723214 Virginia Key, FL
from 09/27/2010 12:00 - 09/30/2010 12:00



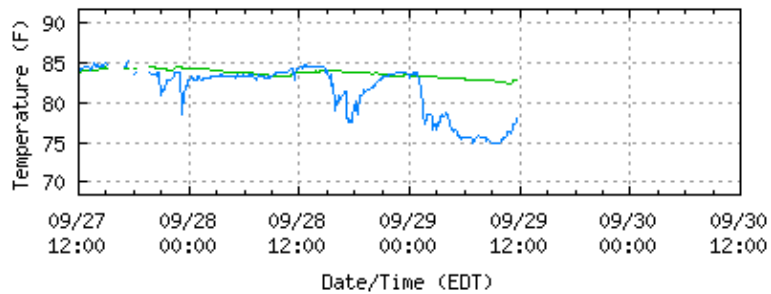
speed — gusts — direction +

Last Observed Sample: 09/29/2010 11:42 (EDT)

Wind Speed: 12 knots Gusts: 15 knots Direction: 073° T

Virginia Key, FL - [Return to List](#)

NOAA/NOS/CO-OPS
Air/Water Temperature Plot
8723214 Virginia Key, FL
from 09/27/2010 12:00 - 09/30/2010 12:00

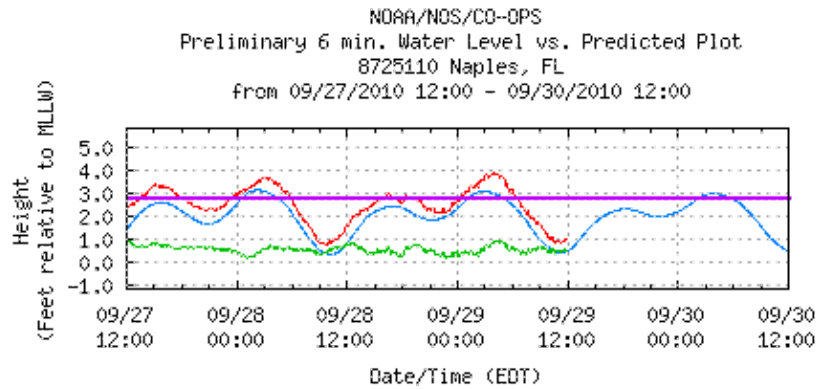


water temp. — air temp —

Last Observed Sample: 09/29/2010 11:42 (EDT)

Water Temperature: 82.8° F Air Temperature: 77.9° F

Naples, FL - [Return to List](#)



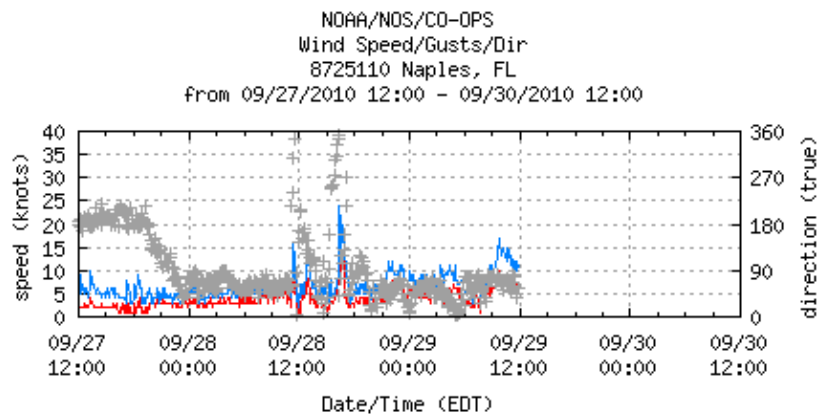
Predicted WL ——— (Obs-Pred) ———
 Observed WL ——— MHHW ———

Last Observed Sample: 09/29/2010 11:48 (EDT)

Relative to **MLLW**: **Observed: 0.98 ft. Predicted: 0.46 ft. Residual: 0.52 ft.**

Historical Maximum Water Level: Dec 21 1972, 3.11 ft. above **MHHW**

Naples, FL - [Return to List](#)



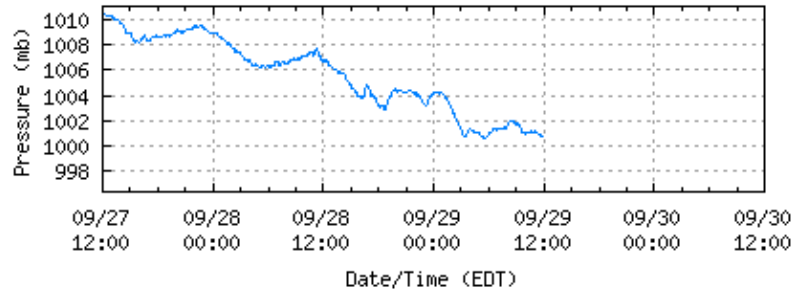
speed ——— gusts ——— direction +

Last Observed Sample: 09/29/2010 11:48 (EDT)

Wind Speed: 6 knots Gusts: 11 knots Direction: 055° T

Naples, FL - [Return to List](#)

NOAA/NOS/CO-OPS
 Barometric Pressure Plot
 8725110 Naples, FL
 from 09/27/2010 12:00 - 09/30/2010 12:00



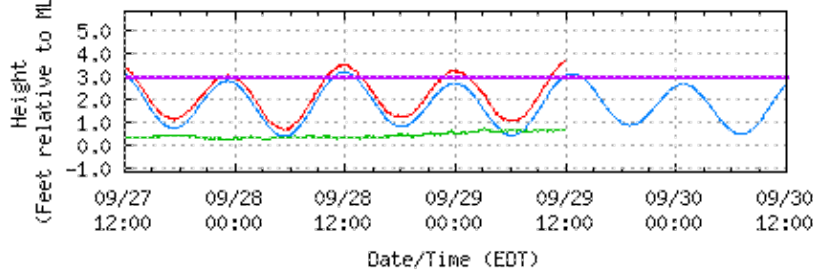
barometric pressure —

Last Observed Sample: 09/29/2010 11:48 (EDT)

Barometric Pressure: 1000.7 mb

Lake Worth Pier, FL - [Return to List](#)

NOAA/NOS/CO-OPS
 Preliminary 6 min. Water Level vs. Predicted Plot
 8722670 Lake Worth Pier, FL
 from 09/27/2010 12:00 - 09/30/2010 12:00



Predicted WL — (Obs-Pred) —
 Observed WL — MHHW —

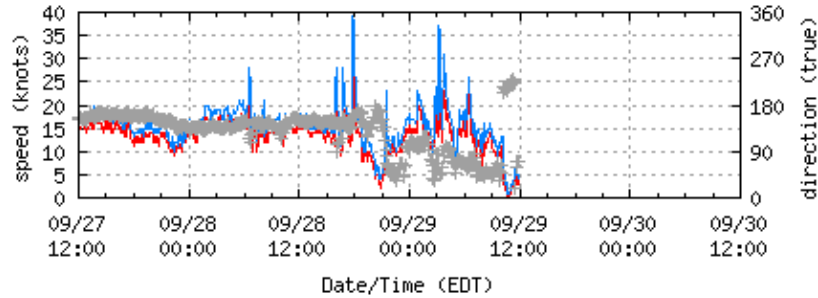
Last Observed Sample: 09/29/2010 11:48 (EDT)

Relative to **MLLW**: Observed: 3.64 ft. Predicted: 3.00 ft. Residual: 0.64 ft.

Historical Maximum Water Level: Nov 23 1984, 1.88 ft. above **MHHW**

Lake Worth Pier, FL - [Return to List](#)

NOAA/NDS/CO-OPS
Wind Speed/Gusts/Dir
8722670 Lake Worth Pier, FL
from 09/27/2010 12:00 - 09/30/2010 12:00



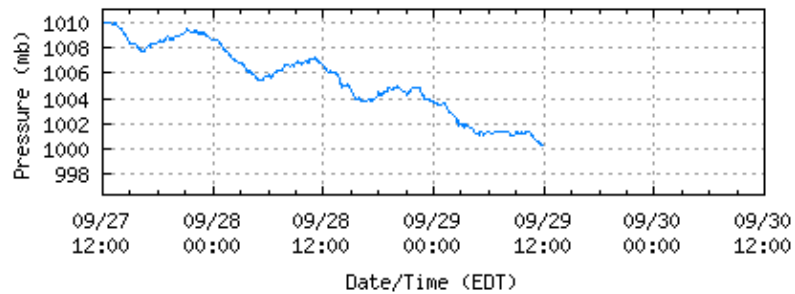
speed — gusts — direction +

Last Observed Sample: 09/29/2010 11:48 (EDT)

Wind Speed: 3 knots Gusts: 4 knots Direction: 072° T

Lake Worth Pier, FL - [Return to List](#)

NOAA/NDS/CO-OPS
Barometric Pressure Plot
8722670 Lake Worth Pier, FL
from 09/27/2010 12:00 - 09/30/2010 12:00



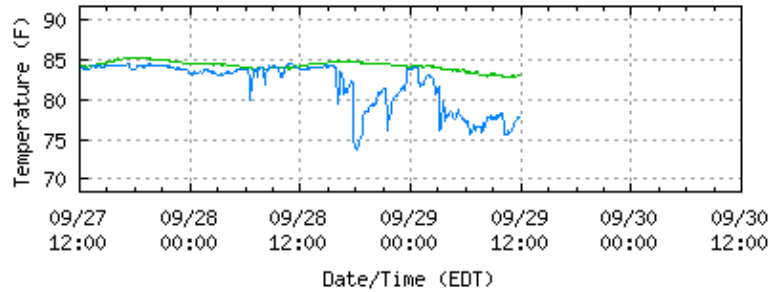
barometric pressure —

Last Observed Sample: 09/29/2010 11:48 (EDT)

Barometric Pressure: 1000.2 mb

Lake Worth Pier, FL - [Return to List](#)

NOAA/NOS/CO-OPS
 Air/Water Temperature Plot
 8722670 Lake Worth Pier, FL
 from 09/27/2010 12:00 - 09/30/2010 12:00



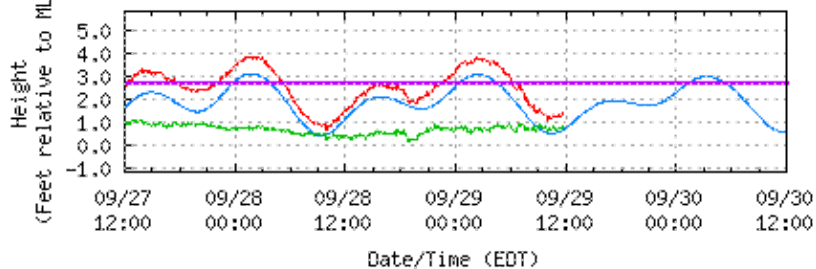
water temp. — air temp —

Last Observed Sample: 09/29/2010 11:48 (EDT)

Water Temperature: 83.1° F Air Temperature: 77.7° F

Clearwater Beach, FL - [Return to List](#)

NOAA/NOS/CO-OPS
 Preliminary 6 min. Water Level vs. Predicted Plot
 8726724 Clearwater Beach, FL
 from 09/27/2010 12:00 - 09/30/2010 12:00



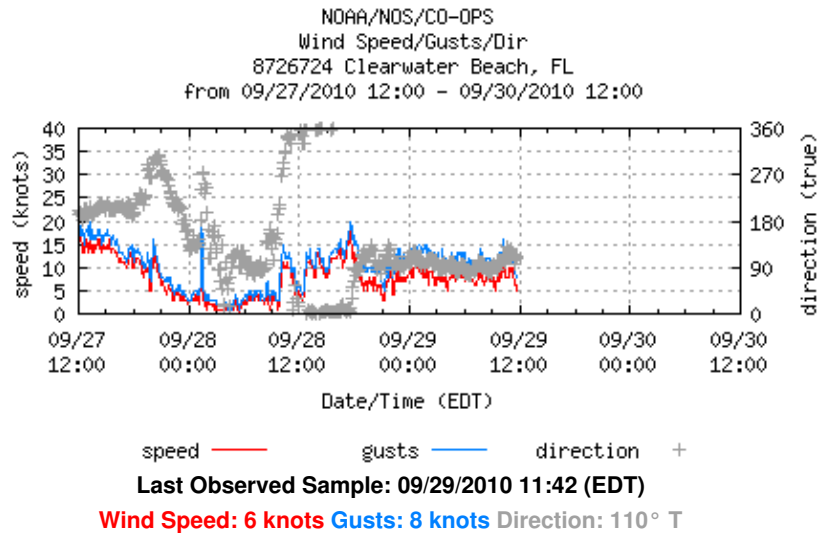
Predicted WL — (Obs-Pred) —
 Observed WL — MHHW —

Last Observed Sample: 09/29/2010 11:42 (EDT)

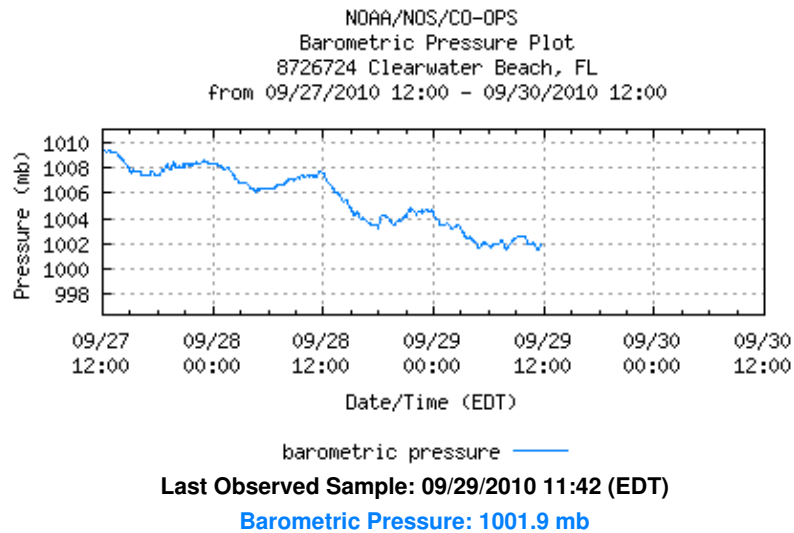
Relative to **MLLW**: Observed: 1.45 ft. Predicted: 0.67 ft. Residual: 0.78 ft.

Historical Maximum Water Level: Mar 13 1993, 4.05 ft. above **MHHW**

Clearwater Beach, FL - [Return to List](#)

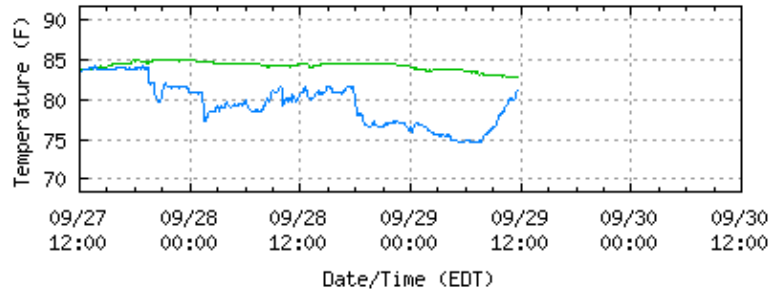


Clearwater Beach, FL - [Return to List](#)



Clearwater Beach, FL - [Return to List](#)

NOAA/NOS/CO-OPS
 Air/Water Temperature Plot
 8726724 Clearwater Beach, FL
 from 09/27/2010 12:00 - 09/30/2010 12:00



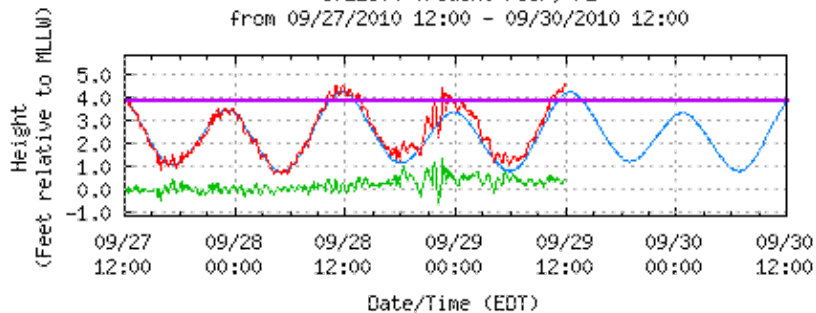
water temp. — air temp —

Last Observed Sample: 09/29/2010 11:42 (EDT)

Water Temperature: 82.8° F Air Temperature: 81.1° F

Trident Pier, FL - [Return to List](#)

NOAA/NOS/CO-OPS
 Preliminary 6 min. Water Level vs. Predicted Plot
 8721604 Trident Pier, FL
 from 09/27/2010 12:00 - 09/30/2010 12:00



Predicted WL — (Obs-Pred) —
 Observed WL — MHHW —

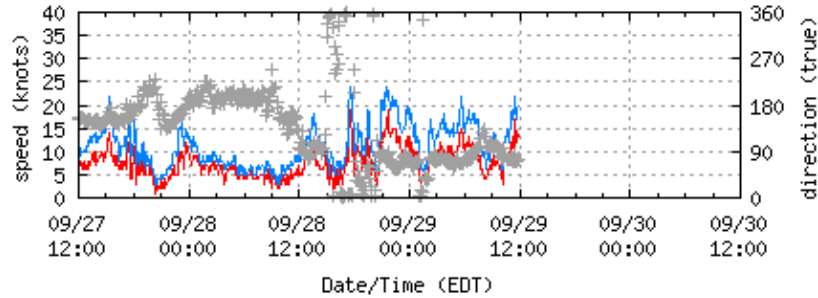
Last Observed Sample: 09/29/2010 11:48 (EDT)

Relative to **MLLW**: Observed: 4.57 ft. Predicted: 4.15 ft. Residual: 0.42 ft.

Historical Maximum Water Level: Sep 26 2004, 4.13 ft. above **MHHW**

Trident Pier, FL - [Return to List](#)

NOAA/NDS/CO-OPS
Wind Speed/Gusts/Dir
8721604 Trident Pier, FL
from 09/27/2010 12:00 - 09/30/2010 12:00



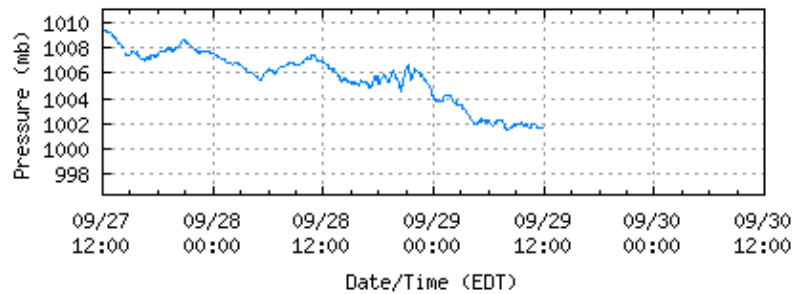
speed — gusts — direction +

Last Observed Sample: 09/29/2010 11:48 (EDT)

Wind Speed: 13 knots Gusts: 20 knots Direction: 073° T

Trident Pier, FL - [Return to List](#)

NOAA/NDS/CO-OPS
Barometric Pressure Plot
8721604 Trident Pier, FL
from 09/27/2010 12:00 - 09/30/2010 12:00



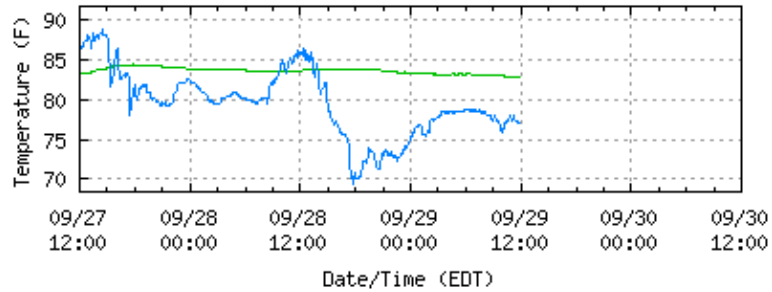
barometric pressure —

Last Observed Sample: 09/29/2010 11:48 (EDT)

Barometric Pressure: 1001.6 mb

Trident Pier, FL - [Return to List](#)

NOAA/NOS/CO-OPS
 Air/Water Temperature Plot
 8721604 Trident Pier, FL
 from 09/27/2010 12:00 - 09/30/2010 12:00



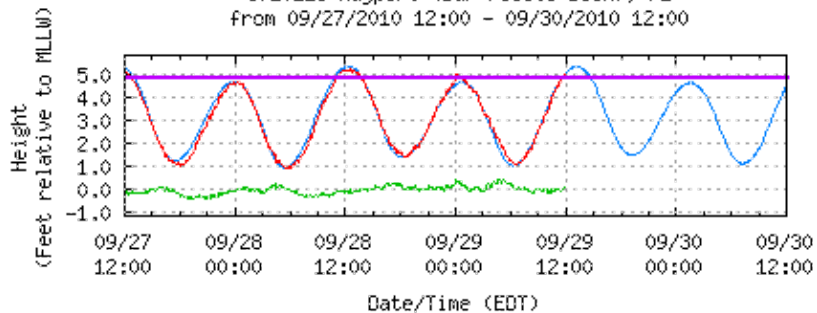
water temp. ——— air temp ———

Last Observed Sample: 09/29/2010 11:48 (EDT)

Water Temperature: 82.9° F Air Temperature: 77.0° F

Mayport (Bar Pilots Dock), FL - [Return to List](#)

NOAA/NOS/CO-OPS
 Preliminary 6 min. Water Level vs. Predicted Plot
 8720218 Mayport (Bar Pilots Dock), FL
 from 09/27/2010 12:00 - 09/30/2010 12:00



Predicted WL ——— (Obs-Pred) ———
 Observed WL ——— MHHW ———

Last Observed Sample: 09/29/2010 11:48 (EDT)

Relative to **MLLW**: Observed: 5.05 ft. Predicted: 5.00 ft. Residual: 0.05 ft.

Historical Maximum Water Level: Sep 27 2004, 2.48 ft. above **MHHW**

Tropical Storm NICOLE QuickLook, POSTED 12:00 EDT 09/29/2010

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce