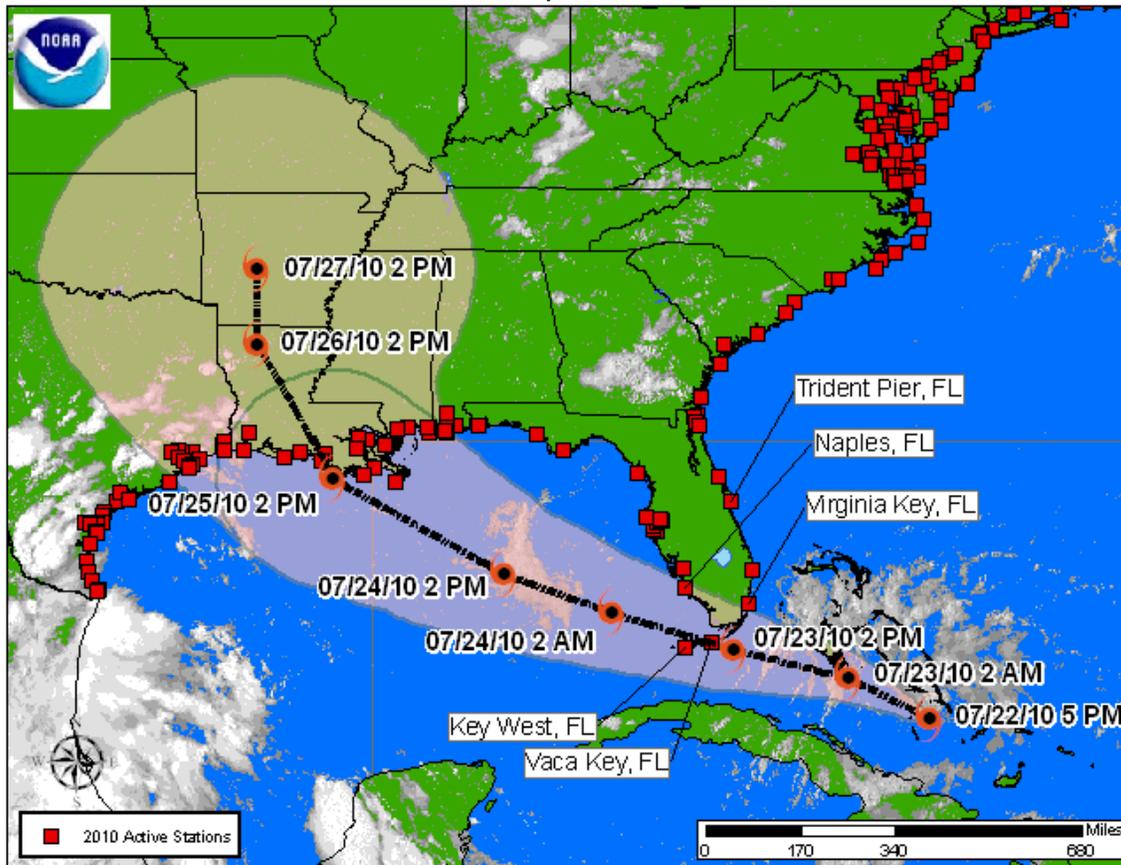




Tropical Depression THREE QuickLook
Posted: 19:00 EDT 07/22/2010

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 07/22/2010 19:00 EDT, water levels across southern Florida are at or near predicted. Wind speeds range from 5 to 15 kts with some gusts up to 20 kts. Barometric pressure is steady across the region.

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

Trident Pier, FL Next predicted high tides are 3.95 ft (1.20 m) at 07/22/2010 18:18 EDT and 2.80 ft (0.85 m) at 07/23/2010 06:21 EDT.

Virginia Key, FL Next predicted high tides are 2.03 ft (0.62 m) at 07/22/2010 19:26 EDT and 1.95 ft (0.59 m) at 07/23/2010 07:33 EDT.

Vaca Key, FL Next predicted high tides are 0.44 ft (0.13 m) at 07/23/2010 02:33 EDT and 0.85 ft (0.26 m) at 07/23/2010 11:01 EDT.

Key West, FL Next predicted high tides are 0.88 ft (0.27 m) at 07/22/2010 21:36 EDT and 1.93 ft (0.59 m) at 07/23/2010 08:34 EDT.

Naples, FL Next predicted high tides are 2.20 ft (0.67 m) at 07/23/2010 01:09 EDT and 3.17 ft (0.97 m) at 07/23/2010 10:54 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:WFR

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

**TROPICAL DEPRESSION THREE ADVISORY NUMBER 2
500 PM EDT THU JUL 22 2010**

**...TROPICAL DEPRESSION FORMS IN THE BAHAMAS...AIR FORCE
RECONNAISSANCE PLANE EN ROUTE...**

WATCHES AND WARNINGS

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

**A TROPICAL STORM WARNING IS IN EFFECT FOR...
* FOR THE FLORIDA EAST COAST FROM GOLDEN BEACH SOUTHWARD INCLUDING
THE ENTIRE FLORIDA KEYS AND FLORIDA BAY...AND ALONG THE WEST COAST OF
FLORIDA NORTHWARD TO BONITA BEACH**

**A TROPICAL STORM WATCH IS IN EFFECT FOR...
* THE EAST COAST OF FLORIDA NORTH OF GOLDEN BEACH TO JUPITER INLET
INCLUDING LAKE OKEECHOBEE**

**A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE
EXPECTED SOMEWHERE WITHIN THE WARNING AREA WITHIN 36 HOURS.**

**A TROPICAL STORM WATCH MEANS THAT TROPICAL STORM CONDITIONS ARE
POSSIBLE WITHIN THE WATCH AREA...GENERALLY WITHIN 48 HOURS.**

**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
UNITED STATES...PLEASE MONITOR PRODUCTS ISSUED BY YOUR NATIONAL
METEOROLOGICAL SERVICE.**

DISCUSSION AND 48-HOUR OUTLOOK

**AT 500 PM EDT...2100 UTC...THE CENTER OF TROPICAL DEPRESSION THREE
WAS LOCATED NEAR LATITUDE 22.7 NORTH...LONGITUDE 75.4 WEST. THE
DEPRESSION HAS BEEN MOVING TOWARD THE NORTHWEST NEAR 14 MPH...22
KM/HR. A TURN TO THE WEST-NORTHWEST WITH AN INCREASE IN FORWARD
SPEED IS EXPECTED TONIGHT AND FRIDAY.**

**DATA FROM A RECONNAISSANCE PLANE INDICATE THAT THE DEPRESSION HAS
NOT STRENGTHENED. MAXIMUM SUSTAINED WINDS REMAIN NEAR 35 MPH...55
KM/HR...WITH HIGHER GUSTS. SOME STRENGTHENING IS POSSIBLE AND THE
DEPRESSION COULD BECOME A TROPICAL STORM TONIGHT OR FRIDAY.**

**THE MINIMUM CENTRAL PRESSURE REPORTED BY AN AIR FORCE
RECONNAISSANCE
PLANE WAS 1006 MB...29.71 INCHES.**

HAZARDS AFFECTING LAND

**WIND...TROPICAL STORM CONDITIONS WILL SPREAD OVER THE CENTRAL AND
NORTHWESTERN BAHAMAS TONIGHT AND FRIDAY. WEATHER CONDITIONS WILL
BEGIN TO DETERIORATE ON THE FLORIDA COAST AND FLORIDA KEYS WITHIN
THE WARNING AREA FRIDAY MORNING.**

**RAINFALL...THE DEPRESSION IS EXPECTED TO PRODUCE TOTAL RAIN
ACCUMULATIONS OF 2 TO 4 INCHES OVER SOUTH FLORIDA...WITH
POSSIBLE ISOLATED MAXIMUM AMOUNTS OF 5 TO 6 INCHES. RAINFALL
AMOUNTS OF 3 TO 5 INCHES ARE EXPECTED OVER THE CENTRAL AND
NORTHWEST BAHAMAS...WITH POSSIBLE ISOLATED AMOUNTS OF 5 TO 7
INCHES.**

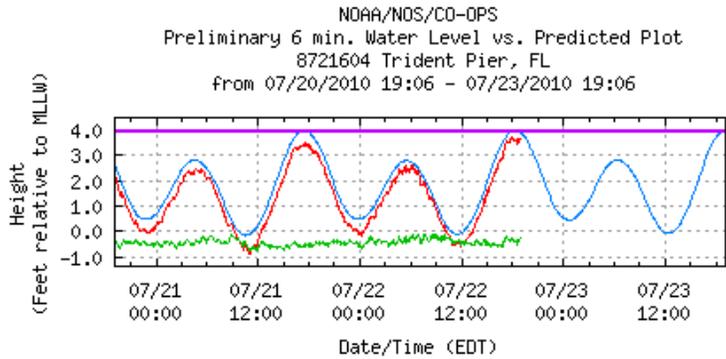
**STORM SURGE...STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 1 TO
2 FEET ABOVE GROUND LEVEL OVER PORTIONS OF THE BAHAMAS AND THE**

**FLORIDA KEYS.
FORECASTER AVILA/ROBERTS**

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: [Trident Pier - Water Level](#), [Trident Pier - Winds](#), [Trident Pier - Barometric](#), [Trident Pier - Air/Water Temp](#), [Virginia Key - Water Level](#), [Virginia Key - Winds](#), [Virginia Key - Barometric](#), [Virginia Key - Air/Water Temp](#), [Vaca Key - Water Level](#), [Vaca Key - Winds](#), [Vaca Key - Barometric](#), [Vaca Key - Air/Water Temp](#), [Key West - Water Level](#), [Key West - Barometric](#), [Naples - Water Level](#), [Naples - Winds](#), [Naples - Barometric](#), [Naples - Air/Water Temp](#).

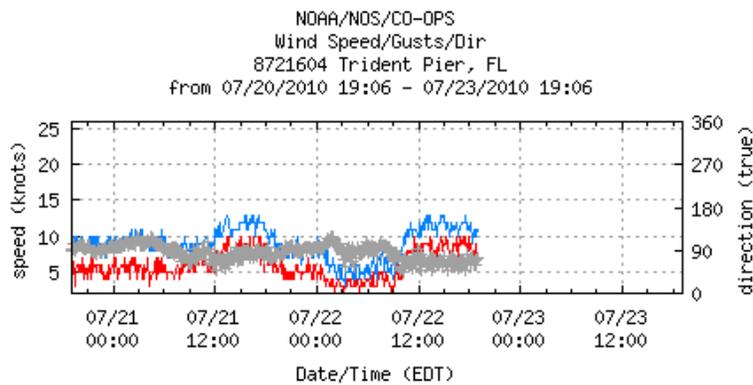
[Trident Pier, FL - Return to List](#)



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

Last Observed Sample: 07/22/2010 18:54 (EDT)
Relative to MLLW: Observed: 3.62 ft. Predicted: 3.88 ft. Residual: -0.26 ft.
Historical Maximum Water Level: Sep 26 2004, 4.13 ft. above MHHW

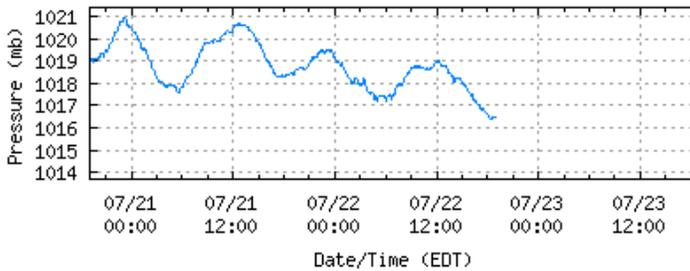
[Trident Pier, FL - Return to List](#)



speed ——— gusts ——— direction +
Last Observed Sample: 07/22/2010 18:54 (EDT)
Wind Speed: 7 knots Gusts: 11 knots Direction: 073° T

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

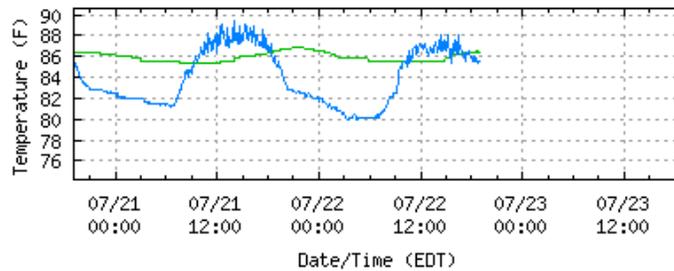
NOAA/NOS/CO-OPS
 Barometric Pressure Plot
 8721604 Trident Pier, FL
 from 07/20/2010 19:06 - 07/23/2010 19:06



barometric pressure —
Last Observed Sample: 07/22/2010 18:54 (EDT)
Barometric Pressure: 1016.5 mb

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

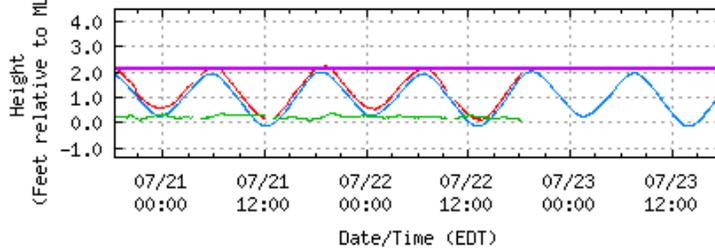
NOAA/NOS/CO-OPS
 Air/Water Temperature Plot
 8721604 Trident Pier, FL
 from 07/20/2010 19:06 - 07/23/2010 19:06



water temp. — air temp —
Last Observed Sample: 07/22/2010 18:54 (EDT)
Water Temperature: 86.4° F Air Temperature: 85.6° F

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

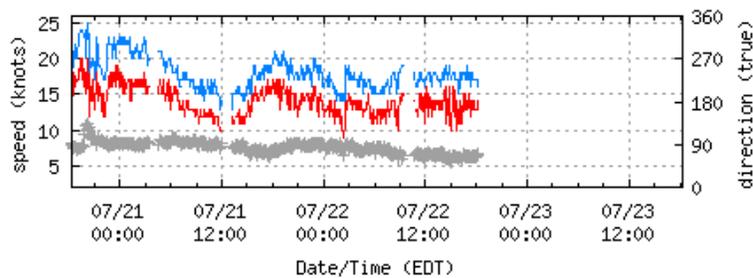
NOAA/NOS/CO-OPS
 Preliminary 6 min. Water Level vs. Predicted Plot
 8723214 Virginia Key, FL
 from 07/20/2010 18:18 - 07/23/2010 18:18



Predicted WL — (Obs-Pred) —
 Observed WL — MHHW —
Last Observed Sample: 07/22/2010 18:12 (EDT)
Relative to MLLW: Observed: 1.91 ft. Predicted: 1.78 ft. Residual: 0.13 ft.
Historical Maximum Water Level: Oct 24 2005, 2.58 ft. above MHHW

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

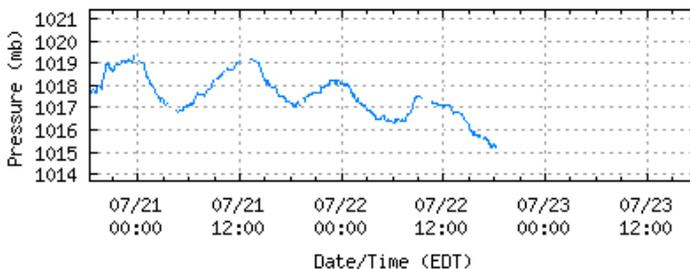
NOAA/NOS/CO-OPS
 Wind Speed/Gusts/Dir
 8723214 Virginia Key, FL
 from 07/20/2010 18:18 - 07/23/2010 18:18



speed — gusts — direction +
Last Observed Sample: 07/22/2010 18:12 (EDT)
Wind Speed: 14 knots Gusts: 16 knots Direction: 069° T

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

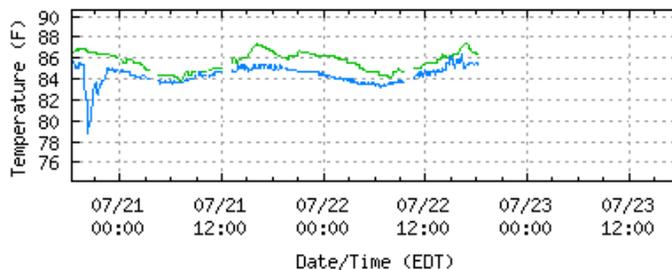
NOAA/NOS/CO-OPS
 Barometric Pressure Plot
 8723214 Virginia Key, FL
 from 07/20/2010 18:18 - 07/23/2010 18:18



barometric pressure —
Last Observed Sample: 07/22/2010 18:12 (EDT)
Barometric Pressure: 1015.2 mb

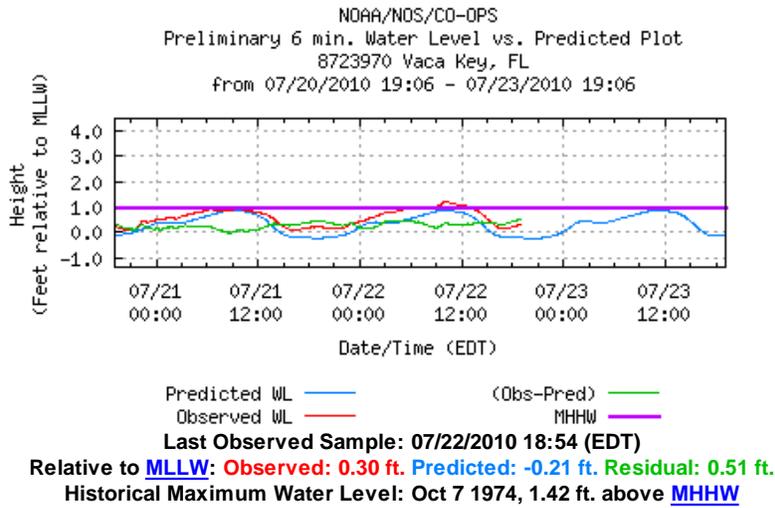
[Virginia Key, FL - Return to List](#)

NOAA/NOS/CO-OPS
 Air/Water Temperature Plot
 8723214 Virginia Key, FL
 from 07/20/2010 18:18 - 07/23/2010 18:18

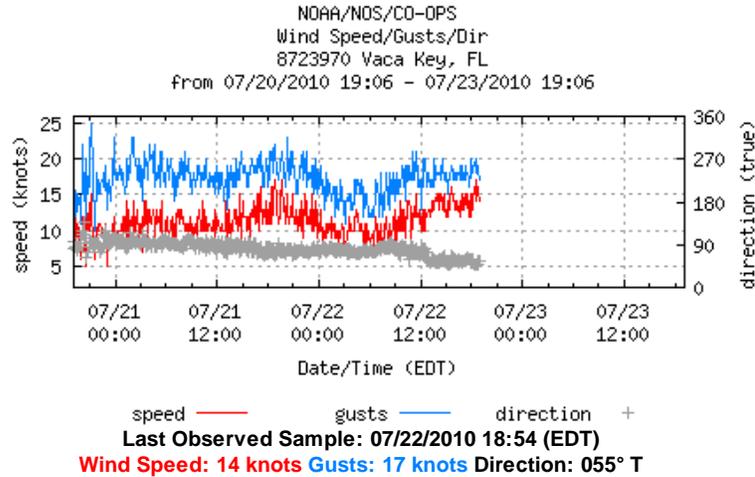


water temp. — air temp. —
Last Observed Sample: 07/22/2010 18:12 (EDT)
Water Temperature: 86.4° F Air Temperature: 85.5° F

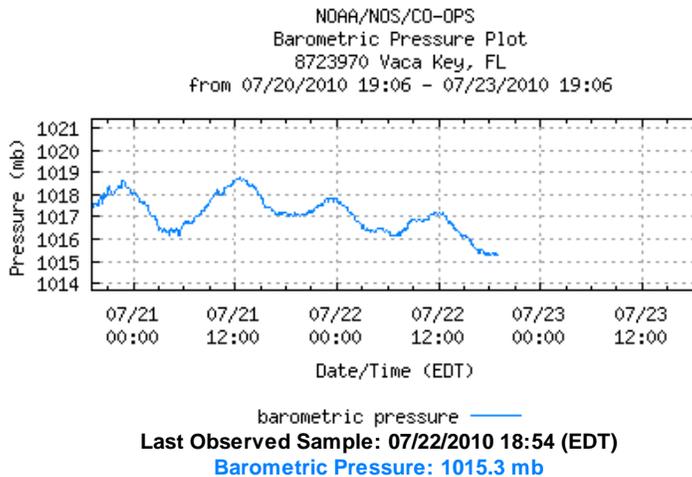
[Vaca Key, FL - Return to List](#)



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

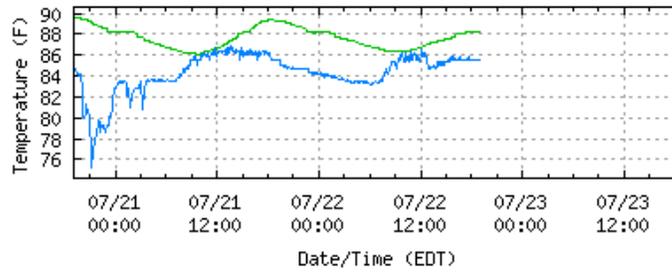


[Vaca Key, FL - Return to List](#)



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

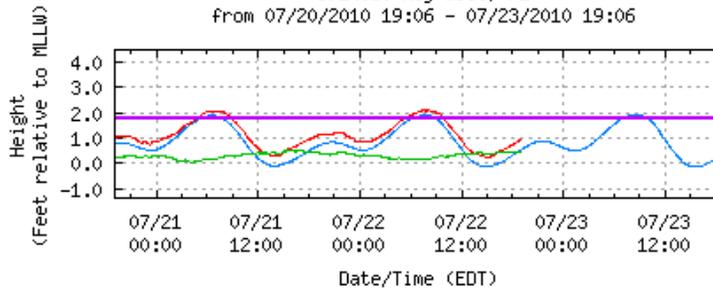
NOAA/NOS/CO-OPS
 Air/Water Temperature Plot
 8723970 Vaca Key, FL
 from 07/20/2010 19:06 - 07/23/2010 19:06



water temp. — air temp. —
Last Observed Sample: 07/22/2010 18:54 (EDT)
Water Temperature: 88.3° F Air Temperature: 85.6° F

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

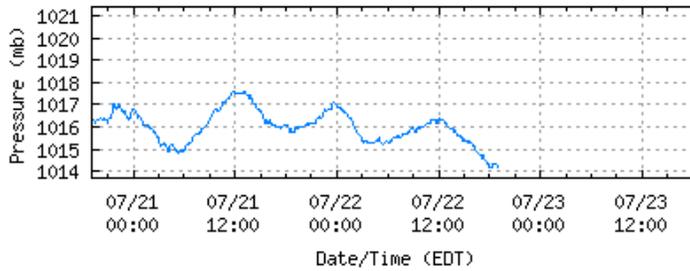
NOAA/NOS/CO-OPS
 Preliminary 6 min. Water Level vs. Predicted Plot
 8724580 Key West, FL
 from 07/20/2010 19:06 - 07/23/2010 19:06



Predicted WL — (Obs-Pred) —
 Observed WL — MHHW —
Last Observed Sample: 07/22/2010 18:54 (EDT)
Relative to MLLW: Observed: 0.94 ft. Predicted: 0.51 ft. Residual: 0.43 ft.
Historical Maximum Water Level: Sep 8 1965, 1.93 ft. above MHHW

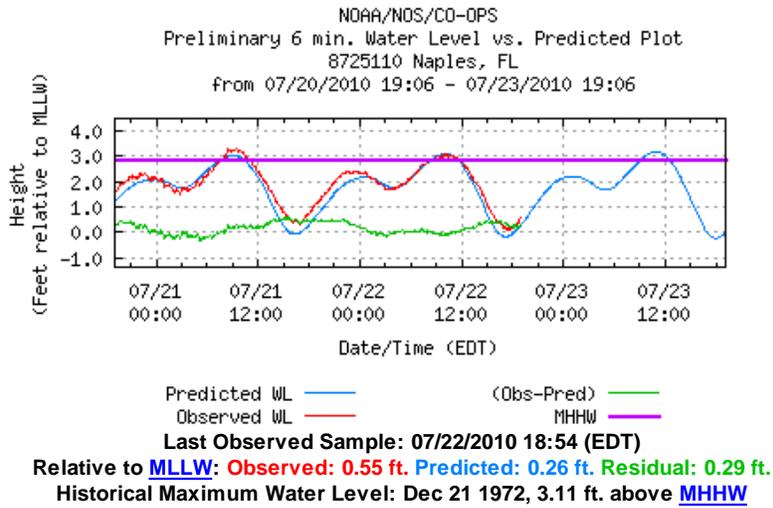
[Key West, FL - Return to List](#)

NOAA/NOS/CO-OPS
 Barometric Pressure Plot
 8724580 Key West, FL
 from 07/20/2010 19:06 - 07/23/2010 19:06

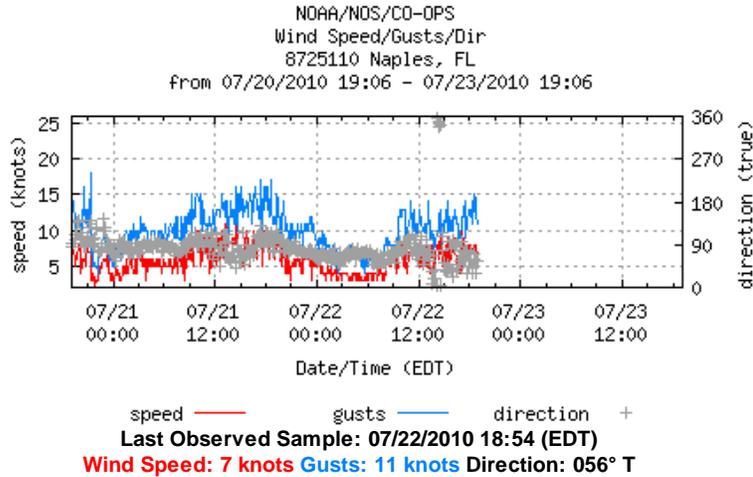


barometric pressure —
Last Observed Sample: 07/22/2010 18:54 (EDT)
Barometric Pressure: 1014.2 mb

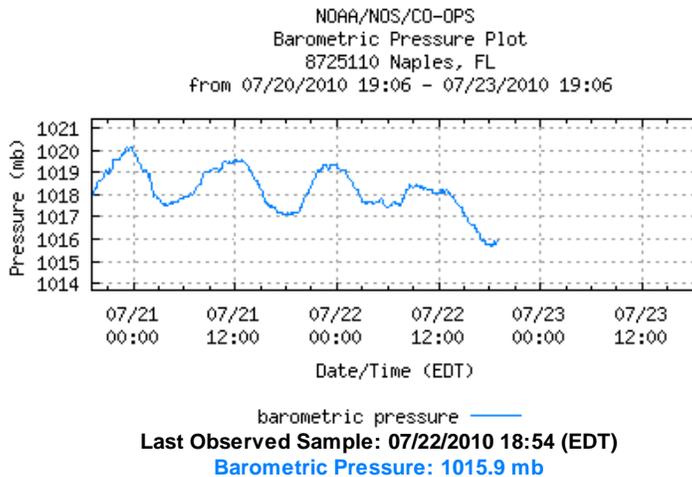
[Naples, FL - Return to List](#)



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

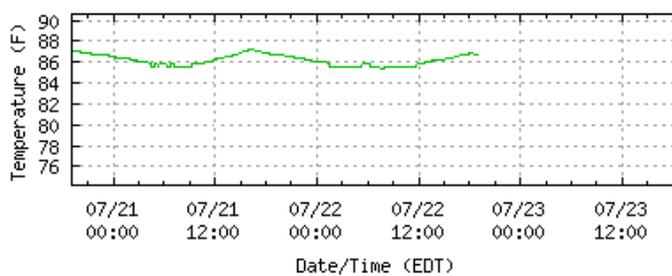


[Naples, FL - Return to List](#)



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

NOAA/NOS/CO-OPS
Air/Water Temperature Plot
8725110 Naples, FL
from 07/20/2010 19:06 - 07/23/2010 19:06



water temp. — air temp. —

Last Observed Sample: 07/20/2010 19:06 (EDT)
Water Temperature: 87.1° F Air Temperature: n/a

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