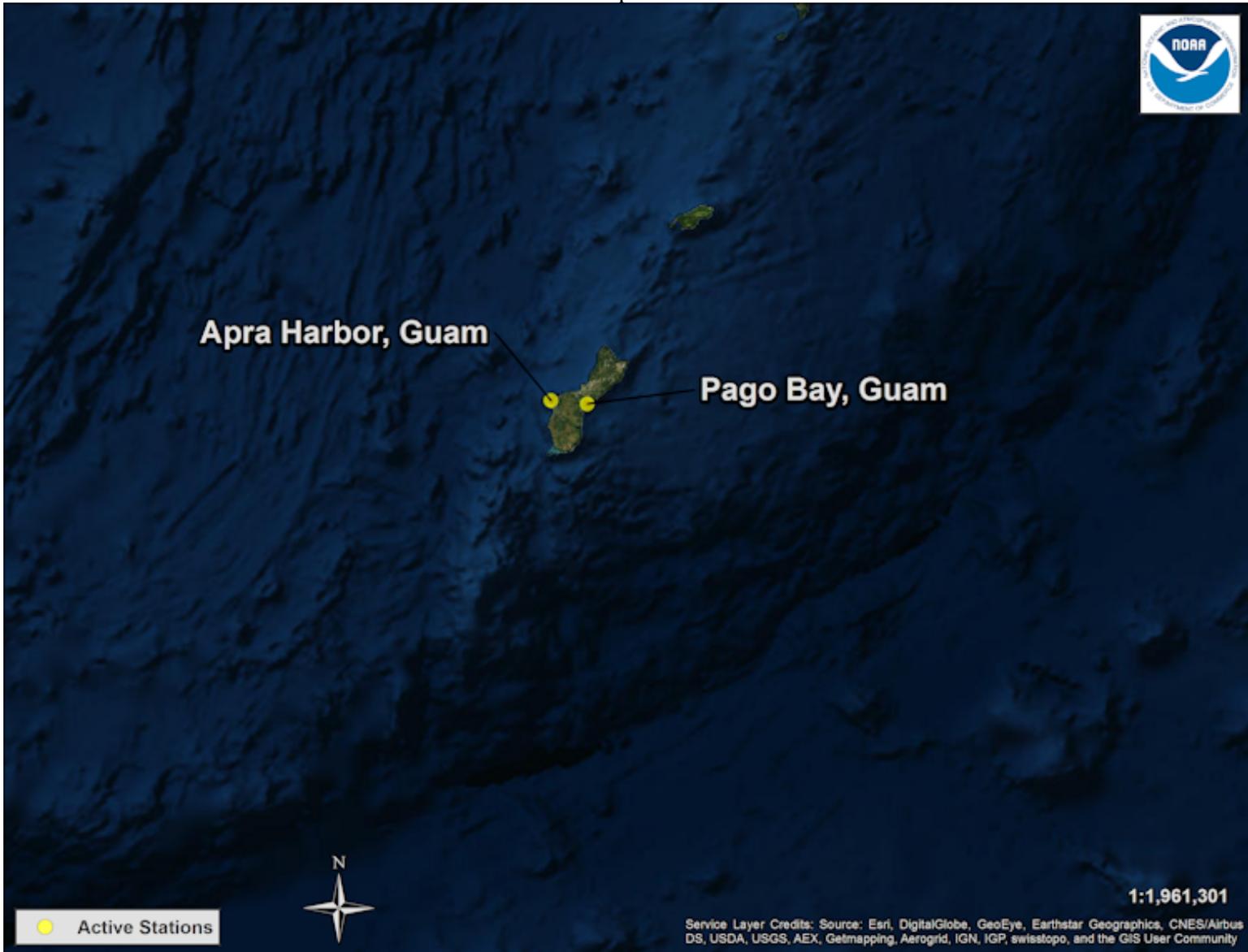




Typhoon IN-FA QuickLook
Posted: 15:00 ChST 11/21/2015

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

Tropical Storm Warning Cancelled for Guam

As of 11/21/2015 15:00 ChST, water levels at Pago Bay remain slightly elevated and measure around 0.4 ft. above predicted tide levels. Water levels at Apra Harbor are near tidal predictions. Winds range between 5 and 15 knots with gusts over 25 knots at Apra Harbor. Barometric pressure has leveled off and continues to display a diurnal

signal.

No further QuickLooks will be posted for this storm unless oceanographic conditions warrant and/or the National Weather Service Guam issues a new tropical storm or hurricane warning for the U.S. or its territories.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

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: PFF

SELECT NATIONAL WEATHER SERVICE GUAM ADVISORY INFORMATION:

WTPQ31 PGUM 210252

TCPPQ1

BULLETIN

TYPHOON IN-FA (27W) ADVISORY NUMBER 17

NATIONAL WEATHER SERVICE TIYAN GU WP272015

200 PM CHST SAT NOV 21 2015

...TYPHOON IN-FA INTENSIFYING SOUTHWEST OF GUAM...

WATCHES AND WARNINGS

NONE.

MAXIMUM SUSTAINED WINDS...130 MPH

PRESENT MOVEMENT...WEST...280 DEGREES AT 17 MPH

DISCUSSION AND OUTLOOK

AT 100 PM CHST...0300 UTC...THE CENTER OF TYPHOON IN-FA WAS LOCATED BY SATELLITE ABOUT 235 MILES SOUTHWEST OF GUAM...MOVING WEST AT 17 MPH. IN-FA IS EXPECTED TO RESUME A WEST-NORTHWEST HEADING LATER TODAY WITH LITTLE CHANGE IN FORWARD SPEED.

MAXIMUM SUSTAINED WINDS HAVE INCREASED TO 130 MPH. TYPHOON FORCE WINDS EXTEND OUTWARD UP TO 45 MILES FROM THE CENTER. TROPICAL STORM FORCE WINDS EXTEND

OUTWARD UP TO 130 MILES FROM THE CENTER. IN-FA IS EXPECTED TO INTENSIFY FURTHER THROUGH SUNDAY MORNING BEFORE A WEAKENING TREND BEGINS SUNDAY NIGHT.

NEXT ADVISORY

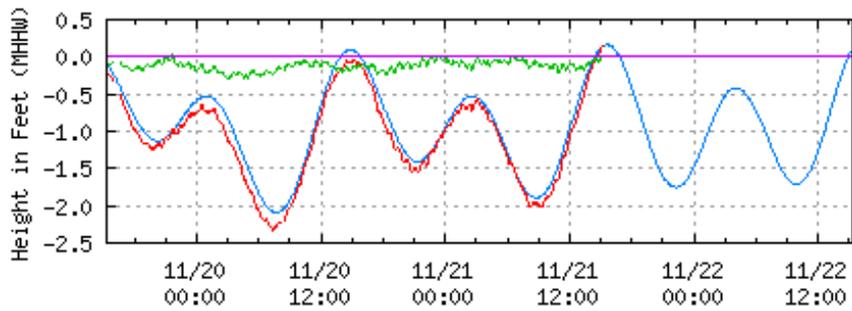
THE NEXT SCHEDULED ADVISORY WILL BE ISSUED BY THE NATIONAL WEATHER SERVICE AT 800 PM CHST THIS EVENING.

WILLIAMS

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: [Apra Harbor, Guam - Water Level](#), [Apra Harbor, Guam - Winds](#), [Apra Harbor, Guam - Barometric](#), [Pago Bay, Guam - Water Level](#), [Pago Bay, Guam - Winds](#)

NOAA/NOS/CO-OPS 1630000 Apra Harbor, Guam
 Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide ——— (blue line)
 Observed WL ——— (red line)
 (Obs-Pred) ——— (green line)
 MHHW ——— (purple line)

Last Observed Sample: 11/21/2015 15:06 (ChST). Data relative to MHHW

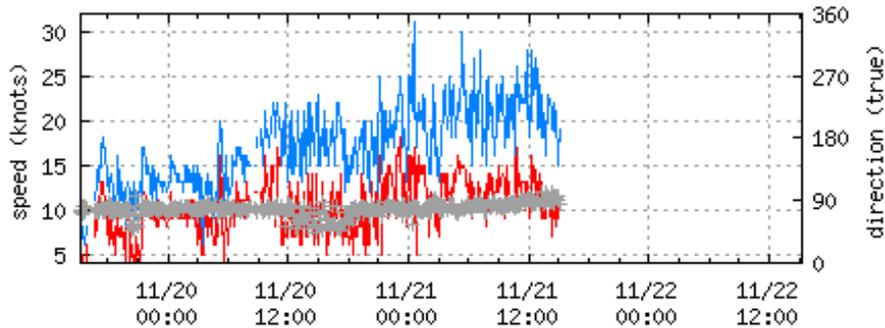
Observed: 0.14 ft. Predicted: 0.13 ft. Residual: 0.01 ft.

Historical Maximum Water Level: Aug 28 1992, 1.95 ft.

Next High Tide: 11/21/2015 15:35 (ChST), 0.16 ft.

NOAA/NOS/CO-OPS 1630000 Apra Harbor, Guam

Wind Speed / Gusts / Direction

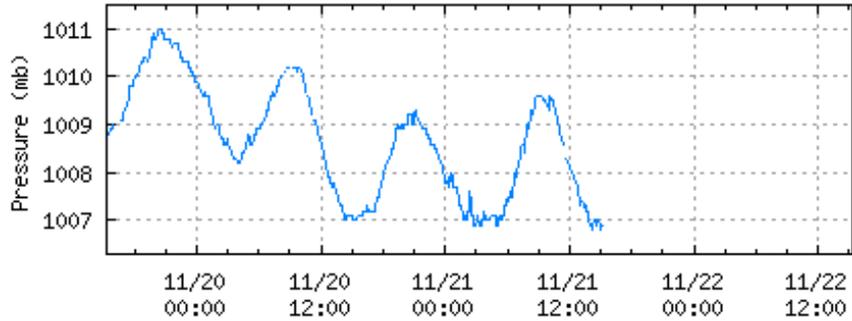


speed ——— (red line) gusts ——— (blue line) direction + (grey line)

Last Observed Sample: 11/21/2015 15:06 (ChST)

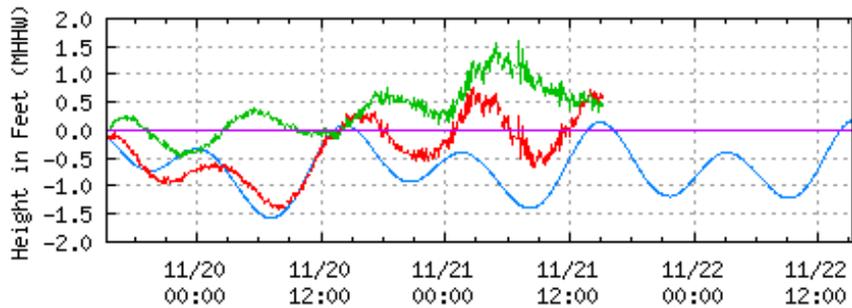
Wind Speed: 11 knots Gusts: 19 knots Direction: 86° T

NOAA/NOS/CO-OPS 1630000 Apra Harbor, Guam
Barometric Pressure



barometric pressure —
Last Observed Sample: 11/21/2015 15:06 (ChST)
Barometric Pressure: 1006.9 mb

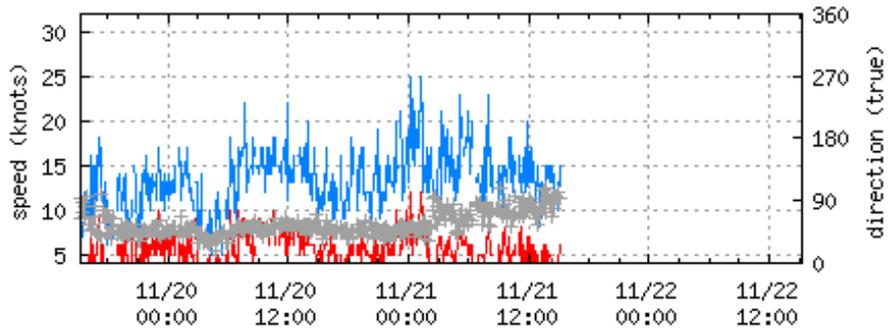
NOAA/NOS/CO-OPS 1631428 Pago Bay, Guam
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



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

Last Observed Sample: 11/21/2015 15:06 (ChST). Data relative to MHHW
Observed: 0.59 ft. Predicted: 0.14 ft. Residual: 0.45 ft.
Historical Maximum Water Level: Oct 20 2004, 2.40 ft.
Next High Tide: 11/22/2015 03:10 (ChST), -0.39 ft.

NOAA/NOS/CO-OPS 1631428 Pago Bay, Guam
Wind Speed / Gusts / Direction



speed — gusts — direction +

Last Observed Sample: 11/21/2015 15:06 (ChST)

Wind Speed: 6 knots Gusts: 15 knots Direction: 93° T

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
1630000	Apra Harbor, Guam	11/21/2015 15:06 (ChST)	0.14 ft	0.13 ft	0.01 ft	0.14 ft
1631428	Pago Bay, Guam	11/21/2015 15:06 (ChST)	0.59 ft	0.14 ft	0.45 ft	0.76 ft

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