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

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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

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NONE.

MAXIMUM SUSTAINED WINDS...130 MPH

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

DISCUSSION AND OUTLOOK

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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

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

Predicted Tide: 0.13 ft. Observed: 0.14 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.

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:

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):

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.
Next High Tide: 11/22/2015 03:10 (ChST), -0.39 ft.
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

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

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