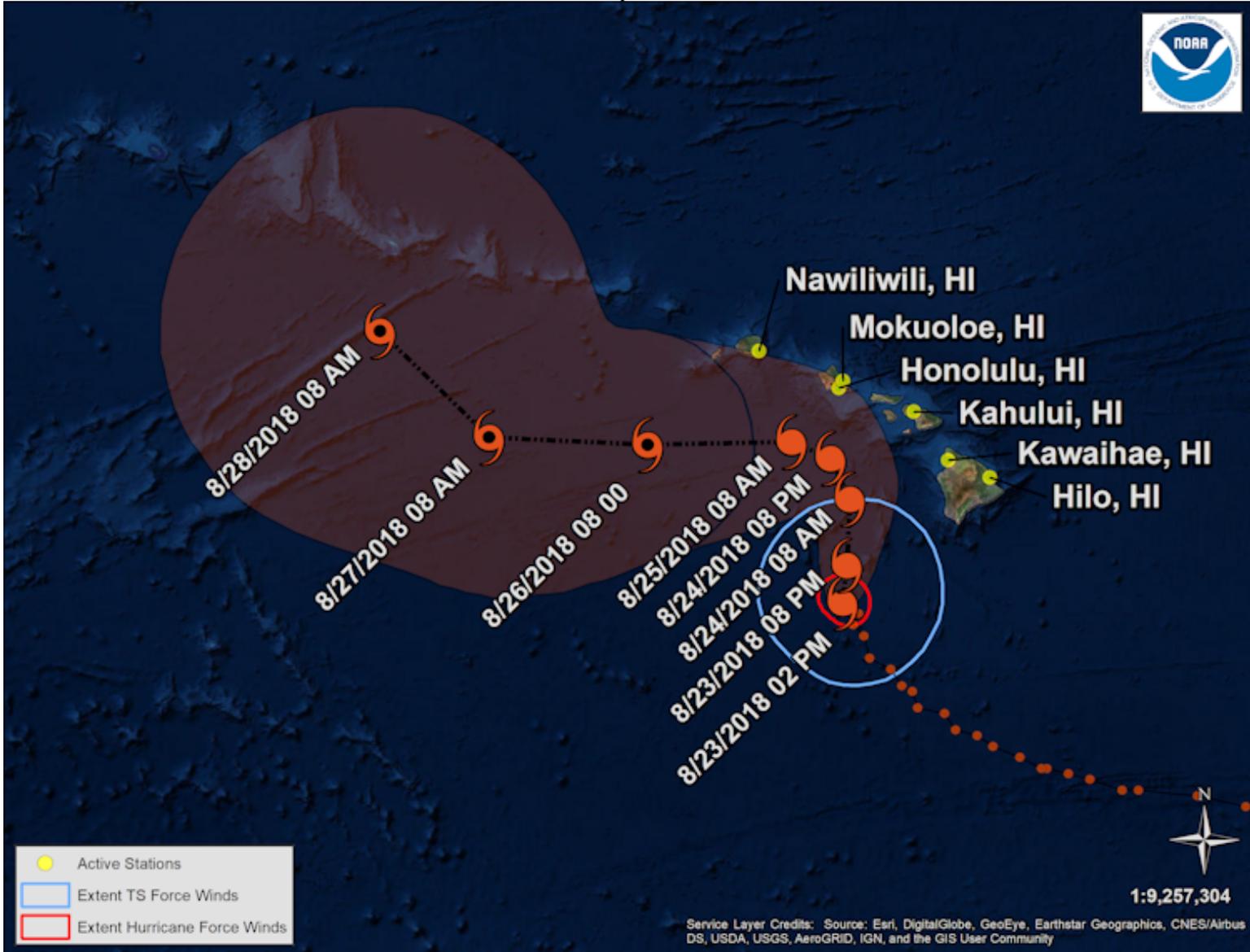




Hurricane Lane QuickLook  
Posted: 18:00 HST 08/23/2018

### NOAA and NOAA Partnership Stations Relative to the Storm



### Storm Analysis

As of 8/23/2018 18:00 HST water levels across the Hawaiian Islands remain slightly elevated and generally range around .40 to .70 feet above normal tide levels. Winds of 10 - 20 knots are being observed at most stations with gusts up to 25 knots measured on the islands of Hawai'i (Hilo and Kawaihae) and Maui (Kahului) over the past 6 hours. Gusts have reached up to 35 knots at Kawaihae. Barometric pressure continues to slowly decrease across the region, with the most marked decrease occurring at Kawaihae.

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 real-time and historical inundation information for select stations affected by this storm, please visit Coastal Inundation Dashboard. For additional data, please see the Center for Operational Oceanographic Products & Services website.

For more information or archived products and reports, please visit the Storm QuickLook Homepage.

Analyst: LAH

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Select Central Pacific Hurricane Center Advisory Information:

Hurricane Lane Advisory Number 38  
NWS Central Pacific Hurricane Center Honolulu HI  
500 PM HST Thu Aug 23 2018

...DANGEROUS HURRICANE LANE SOUTH OF THE MAIN HAWAIIAN ISLANDS AND MOVING TOWARD THE NORTH-NORTHWEST...

SUMMARY OF 500 PM HST...0300 UTC...INFORMATION

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LOCATION...17.8N 157.9W  
ABOUT 180 MI SW OF KAILUA-KONA HAWAII  
ABOUT 240 MI S OF HONOLULU HAWAII  
MAXIMUM SUSTAINED WINDS...120 MPH  
PRESENT MOVEMENT...NNW OR 340 DEGREES AT 6 MPH  
MINIMUM CENTRAL PRESSURE...959 MB...28.32 INCHES

WATCHES AND WARNINGS

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CHANGES WITH THIS ADVISORY:

The Hurricane Warning for the Big Island has been changed to a Tropical Storm Warning.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

- \* Oahu
- \* Maui County...including the islands of Maui, Lanai, Molokai and Kahoolawe

A Tropical Storm Warning is in effect for...

- \* Hawaii County

A Hurricane Watch is in effect for...

- \* Kauai County...including the islands of Kauai and Niihau

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area. Preparations to protect life and property should be rushed to completion.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area.

A Hurricane Watch means that hurricane conditions are possible within the watch area.

Interests in the Northwestern Hawaiian Islands should monitor the progress of Hurricane Lane.

For storm information specific to your area, please monitor products issued by the National Weather Service office in Honolulu Hawaii.

## DISCUSSION AND OUTLOOK

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At 500 PM HST (0300 UTC), the eye of Hurricane Lane was located by radar and satellite imagery near latitude 17.8 North, longitude 157.9 West. Lane is moving toward the north-northwest near 6 mph. A slow general northward motion is expected to continue through Friday. A turn toward the west is expected Saturday and Sunday, with an increase in forward speed. On the forecast track, the center of Lane will move over, or dangerously close to portions of the main Hawaiian islands tonight and Friday.

Maximum sustained winds are near 120 mph (195 km/h) with higher gusts. Lane is a category 3 hurricane on the Saffir-Simpson Hurricane Wind Scale. Some weakening is forecast during the next 48 hours, but Lane is expected to remain a hurricane as it draws closer to the islands.

Hurricane-force winds extend outward up to 35 miles (55 km) from the center and tropical-storm-force winds extend outward up to 125 miles.

The estimated minimum central pressure is 959 mb (28.32 inches).

## HAZARDS AFFECTING LAND

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**WIND:** Tropical storm conditions are expected on portions of the Big Island tonight and Friday. Tropical storm conditions are expected to begin over portions of Maui County tonight, with hurricane conditions expected in some areas Friday. Tropical storm conditions are expected to begin on Oahu late tonight, with hurricane conditions expected Friday into Friday night. Tropical storm or hurricane conditions are possible on Kauai on Saturday.

**RAINFALL:** Rain bands will continue to overspread the Hawaiian Islands well ahead of Lane. Excessive rainfall associated with this slow moving hurricane will continue to impact the Hawaiian Islands into the weekend, leading to significant and life-threatening flash flooding and landslides. Lane is expected to produce total rain accumulations of 10 to 20 inches, with localized amounts in excess of 30 inches over portions of the Hawaiian Islands. Over two feet of rain has already fallen at a couple of locations on the windward side of the Big Island.

**SURF:** As Lane is slow-moving, large swells generated by the hurricane will severely impact the Hawaiian Islands over the next couple of days. These swells will produce very large and damaging surf along exposed west and south facing shorelines. A prolonged period of high surf will likely lead to significant coastal erosion.

**STORM SURGE:** The combination of a dangerous storm surge and large breaking waves will raise water levels by as much as 2 to 4 feet above normal tide levels along south and west facing shores near the center of Lane. The surge will be accompanied by large and destructive waves.

NEXT ADVISORY

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Next intermediate advisory at 800 PM HST.

Next complete advisory at 1100 PM HST.

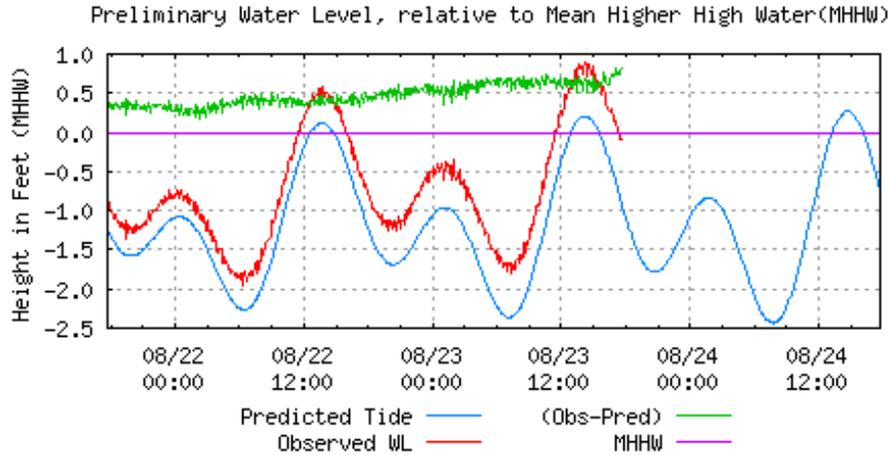
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Forecaster R Ballard

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.

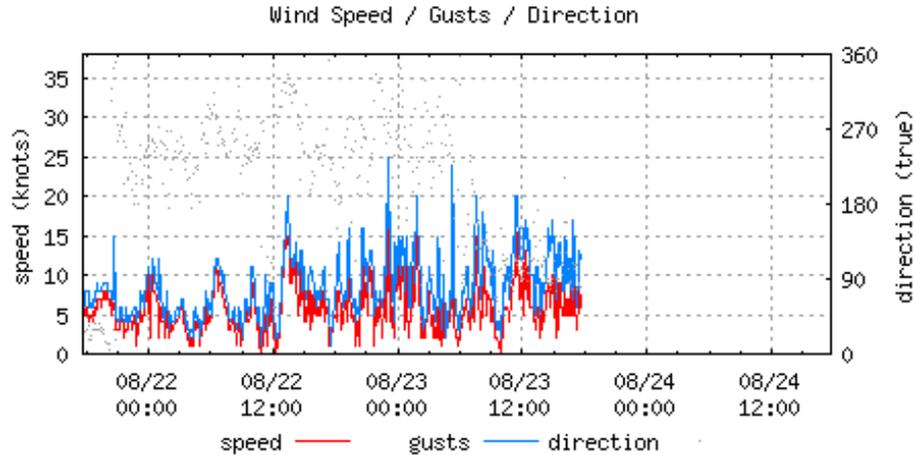
Jump to: [Hilo, Hilo Bay, Kuhio Bay - Water Level](#), [Hilo, Hilo Bay, Kuhio Bay - Winds](#), [Hilo, Hilo Bay, Kuhio Bay - Barometric](#), [Kawaihae - Water Level](#), [Kawaihae - Winds](#), [Kawaihae - Barometric](#), [Kahului, Kahului Harbor - Water Level](#), [Kahului, Kahului Harbor - Winds](#), [Kahului, Kahului Harbor - Barometric](#), [Mokuoloe - Water Level](#), [Mokuoloe - Winds](#), [Mokuoloe - Barometric](#), [Honolulu - Water Level](#), [Honolulu - Winds](#), [Honolulu - Barometric](#), [Nawiliwili - Water Level](#), [Nawiliwili - Winds](#), [Nawiliwili - Barometric](#)

NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI



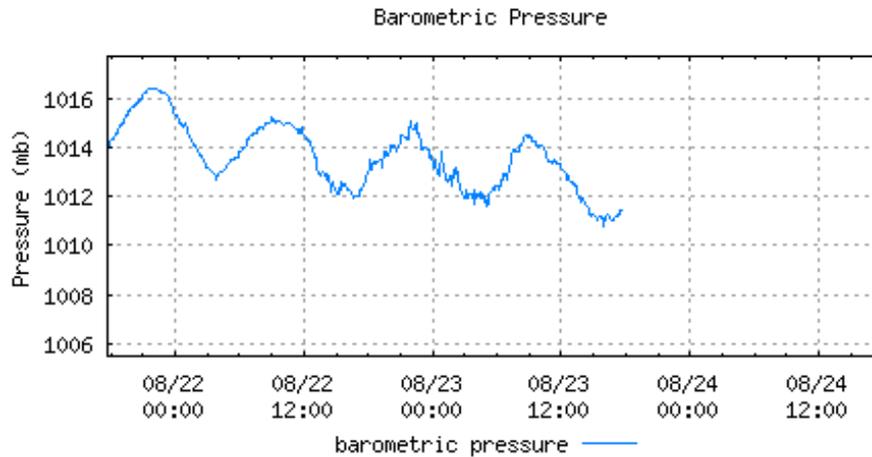
Last Observed Sample: 08/23/2018 17:36 (HST). Data relative to MHHW  
**Observed: -0.08 ft. Predicted: -0.91 ft. Residual: 0.83 ft.**  
Historical Maximum Water Level: Jul 24 2017, 1.54 ft.  
Next High Tide: 08/24/2018 01:44 (HST), -0.83 ft.

NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI



Last Observed Sample: 08/23/2018 17:36 (HST)  
**Wind Speed: 6 knots Gusts: 12 knots Direction: 81° T**

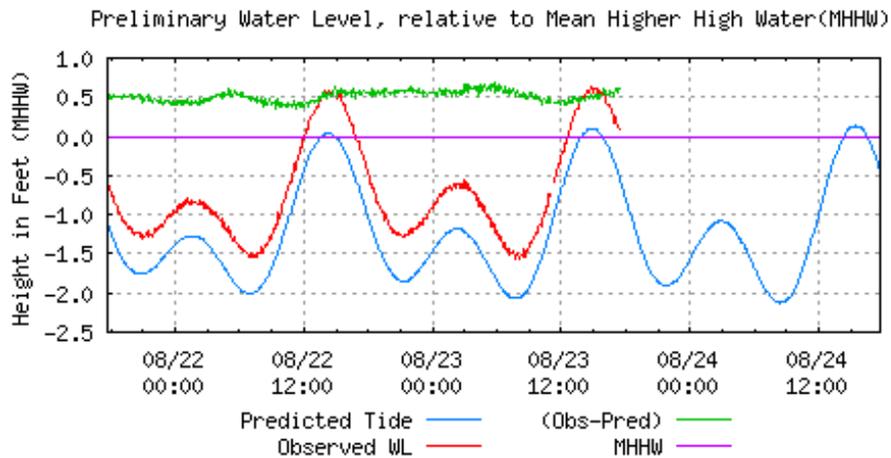
NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI



Last Observed Sample: 08/23/2018 17:36 (HST)

Barometric Pressure: 1011.4 mb

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI



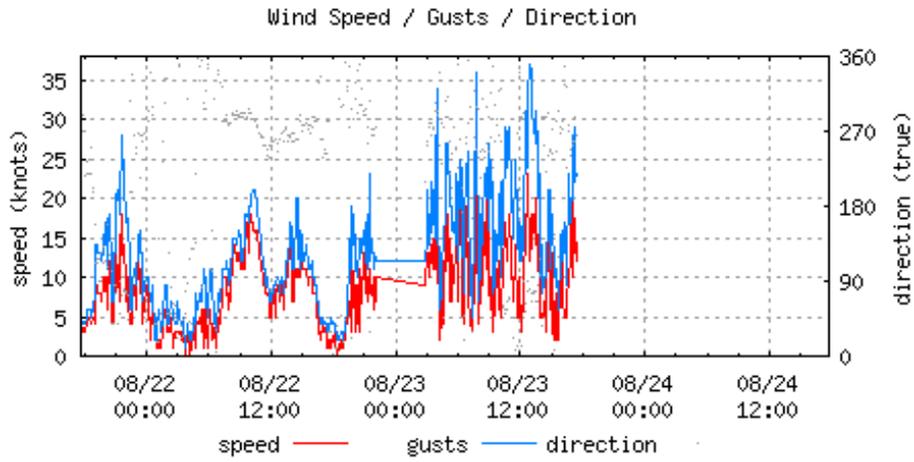
Last Observed Sample: 08/23/2018 17:24 (HST). Data relative to MHHW

Observed: 0.08 ft. Predicted: -0.54 ft. Residual: 0.62 ft.

Historical Maximum Water Level: Dec 15 2016, 1.33 ft.

Next High Tide: 08/24/2018 02:53 (HST), -1.08 ft.

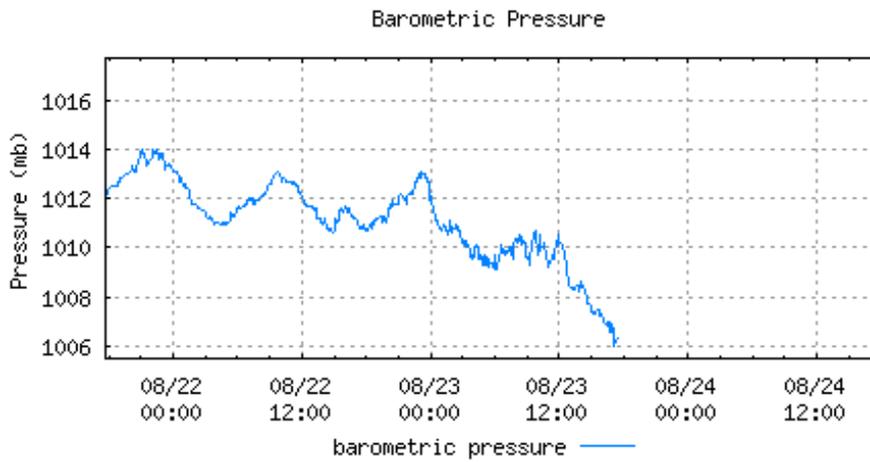
NOAA/NOS/CO-OPS 1617433 Kawaihae, HI



Last Observed Sample: 08/23/2018 17:24 (HST)

Wind Speed: 12 knots Gusts: 23 knots Direction: 264° T

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI

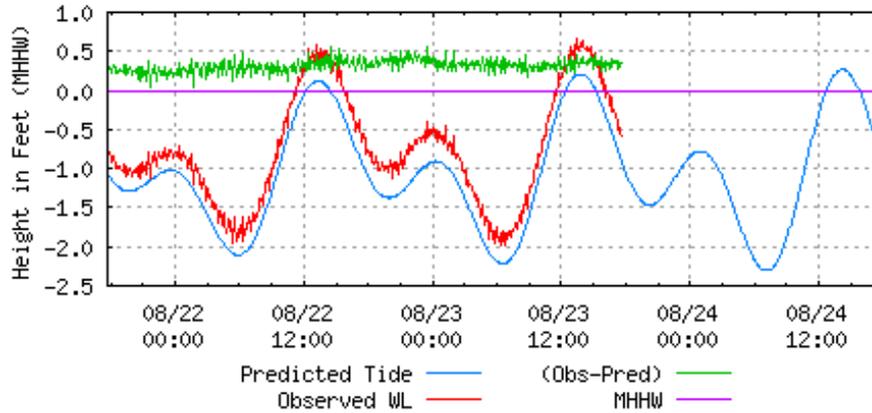


Last Observed Sample: 08/23/2018 17:24 (HST)

Barometric Pressure: 1006.3 mb

NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI

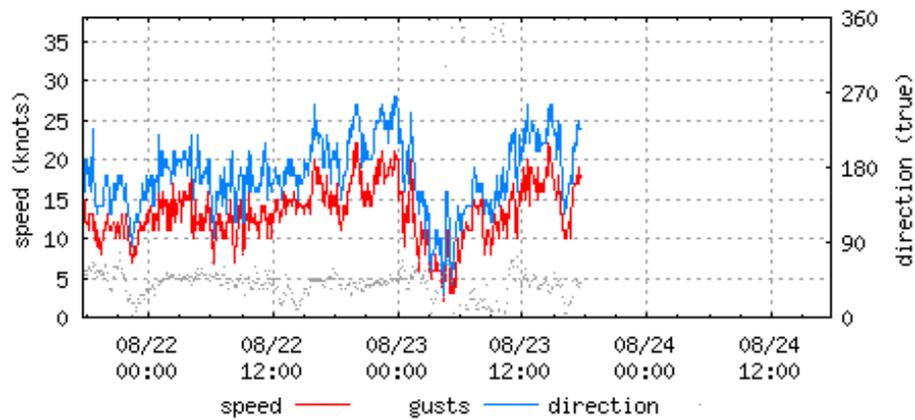
Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 08/23/2018 17:36 (HST). Data relative to MHHW  
**Observed: -0.57 ft. Predicted: -0.91 ft. Residual: 0.34 ft.**  
Historical Maximum Water Level: Aug 21 2017, 1.33 ft.  
Next High Tide: 08/24/2018 00:56 (HST), -0.78 ft.

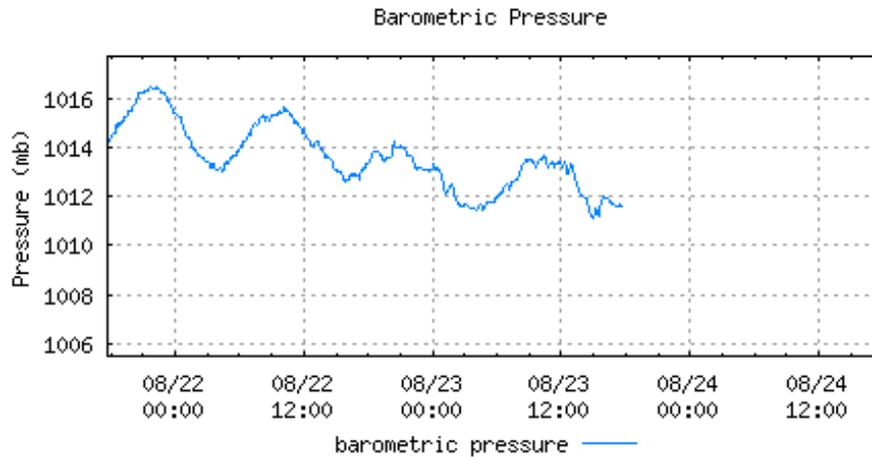
NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI

Wind Speed / Gusts / Direction



Last Observed Sample: 08/23/2018 17:36 (HST)  
**Wind Speed: 18 knots Gusts: 24 knots Direction: 42° T**

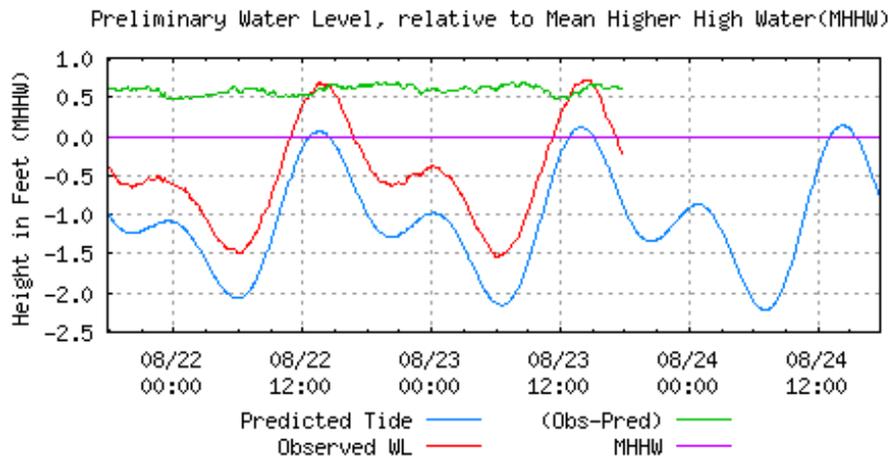
NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI



Last Observed Sample: 08/23/2018 17:36 (HST)

Barometric Pressure: 1011.6 mb

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI



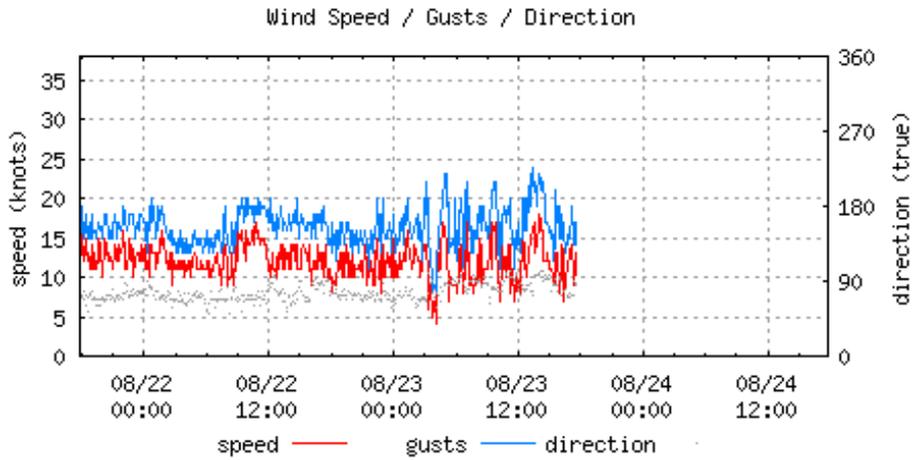
Last Observed Sample: 08/23/2018 17:42 (HST). Data relative to MHHW

Observed: -0.22 ft. Predicted: -0.84 ft. Residual: 0.62 ft.

Historical Maximum Water Level: Aug 21 2017, 1.47 ft.

Next High Tide: 08/24/2018 00:50 (HST), -0.87 ft.

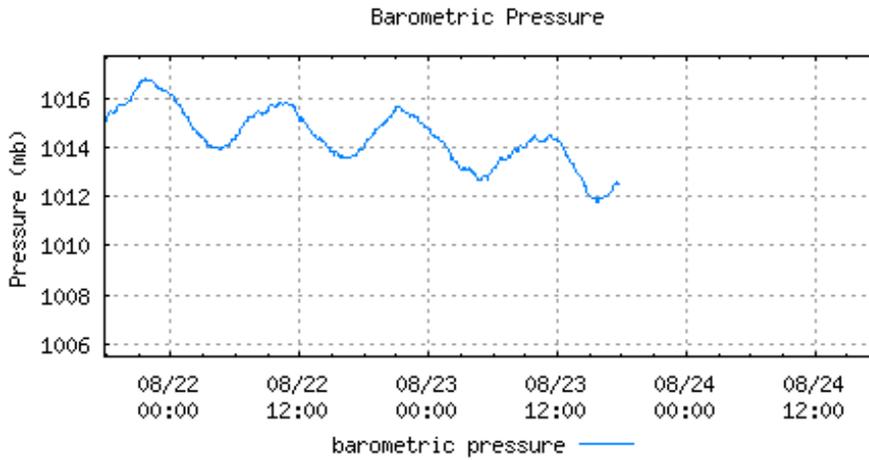
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI



Last Observed Sample: 08/23/2018 17:42 (HST)

Wind Speed: 13 knots Gusts: 17 knots Direction: 87° T

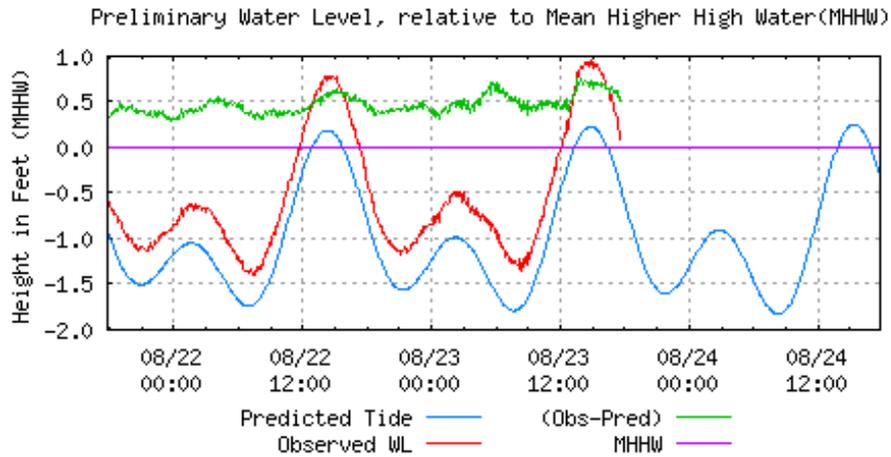
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI



Last Observed Sample: 08/23/2018 17:42 (HST)

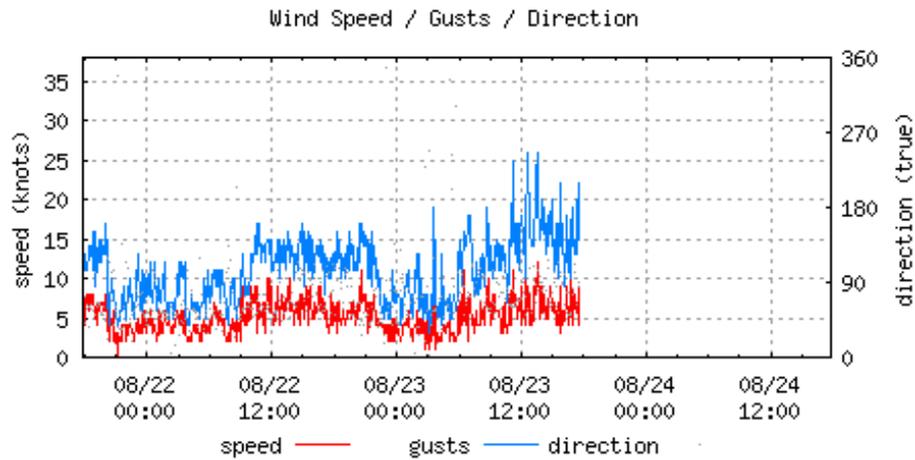
Barometric Pressure: 1012.5 mb

NOAA/NOS/CO-OPS 1612340 Honolulu, HI



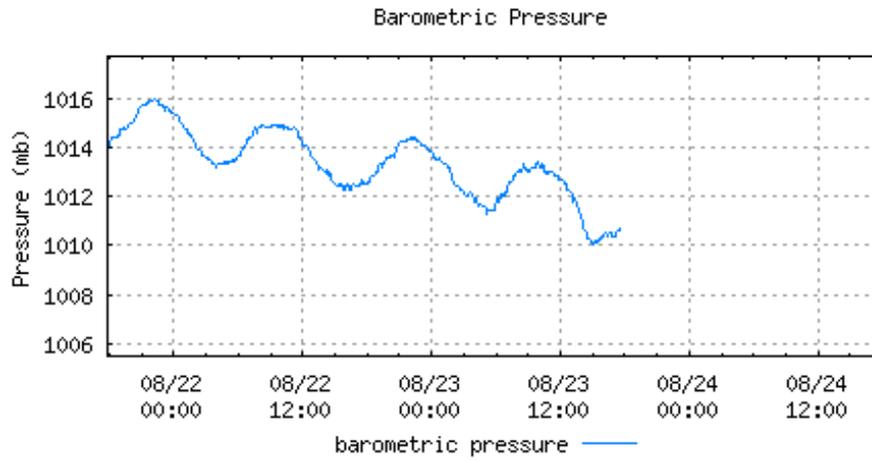
Last Observed Sample: 08/23/2018 17:36 (HST). Data relative to MHHW  
**Observed: 0.09 ft. Predicted: -0.43 ft. Residual: 0.52 ft.**  
 Historical Maximum Water Level: Sep 11 1992, 1.47 ft.  
 Next High Tide: 08/24/2018 02:48 (HST), -0.91 ft.

NOAA/NOS/CO-OPS 1612340 Honolulu, HI



Last Observed Sample: 08/23/2018 17:36 (HST)  
**Wind Speed: 9 knots Gusts: 22 knots Direction: 85° T**

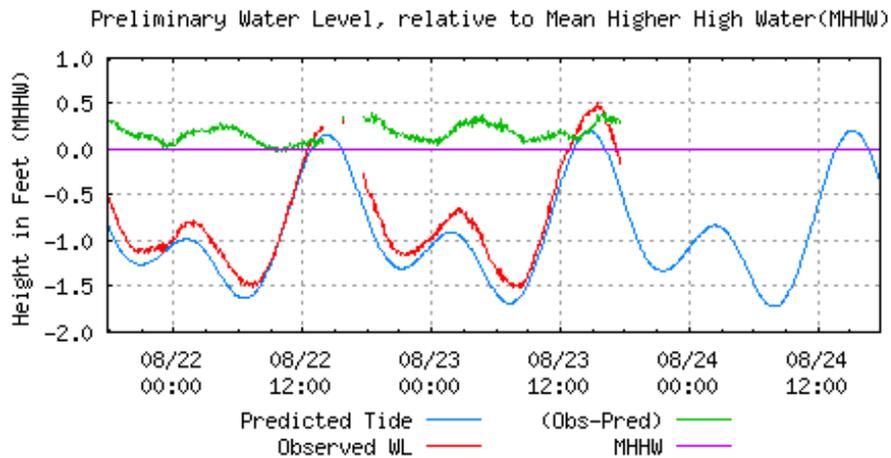
NOAA/NOS/CO-OPS 1612340 Honolulu, HI



Last Observed Sample: 08/23/2018 17:36 (HST)

Barometric Pressure: 1010.6 mb

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI



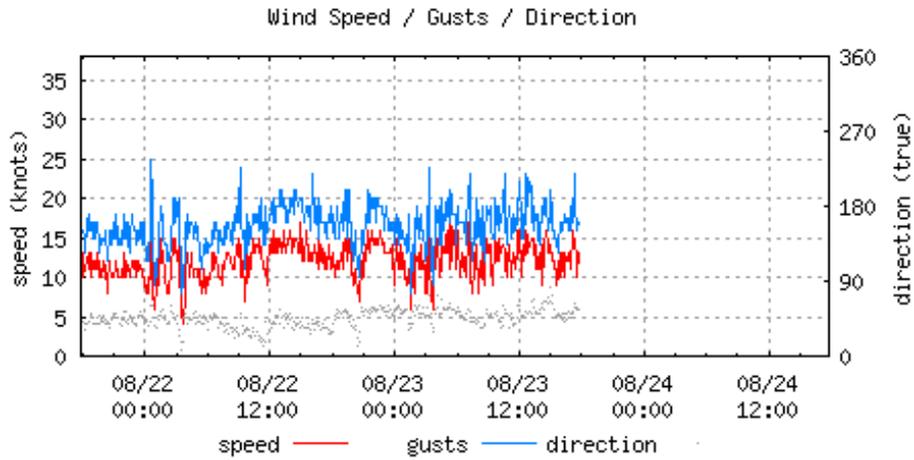
Last Observed Sample: 08/23/2018 17:42 (HST). Data relative to MHHW

Observed: -0.15 ft. Predicted: -0.45 ft. Residual: 0.30 ft.

Historical Maximum Water Level: Sep 11 1992, 3.15 ft.

Next High Tide: 08/24/2018 02:24 (HST), -0.83 ft.

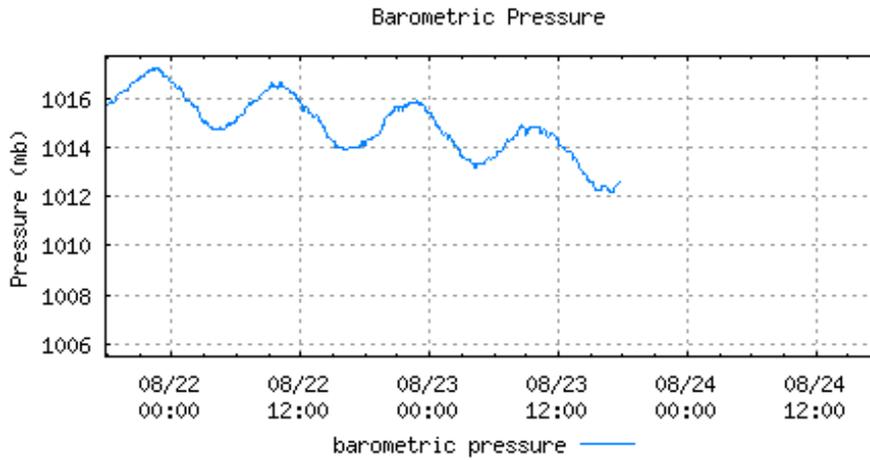
NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI



Last Observed Sample: 08/23/2018 17:42 (HST)

Wind Speed: 13 knots Gusts: 17 knots Direction: 57° T

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI



Last Observed Sample: 08/23/2018 17:42 (HST)

Barometric Pressure: 1012.6 mb

Latest Water Level Observations on MHHW

<b>Station ID</b>	<b>Station Name</b>	<b>Date/Time</b>	<b>Observed Water Level</b>	<b>Predicted Tide</b>	<b>Residual Water Level</b>	<b>24 Hour Maximum Storm Tide</b>
1617760	Hilo, Hilo Bay, Kuhio Bay, HI	08/23/2018 17:36 (HST)	-0.08 ft	-0.91 ft	0.83 ft	0.90 ft
1617433	Kawaihae, HI	08/23/2018 17:24 (HST)	0.08 ft	-0.54 ft	0.62 ft	0.63 ft
1615680	Kahului, Kahului Harbor, HI	08/23/2018 17:36 (HST)	-0.57 ft	-0.91 ft	0.34 ft	0.66 ft
1612480	Mokuoloe, HI	08/23/2018 17:42 (HST)	-0.22 ft	-0.84 ft	0.62 ft	0.72 ft
1612340	Honolulu, HI	08/23/2018 17:36 (HST)	0.09 ft	-0.43 ft	0.52 ft	0.96 ft
1611400	Nawiliwili, HI	08/23/2018 17:42 (HST)	-0.15 ft	-0.45 ft	0.30 ft	0.51 ft

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