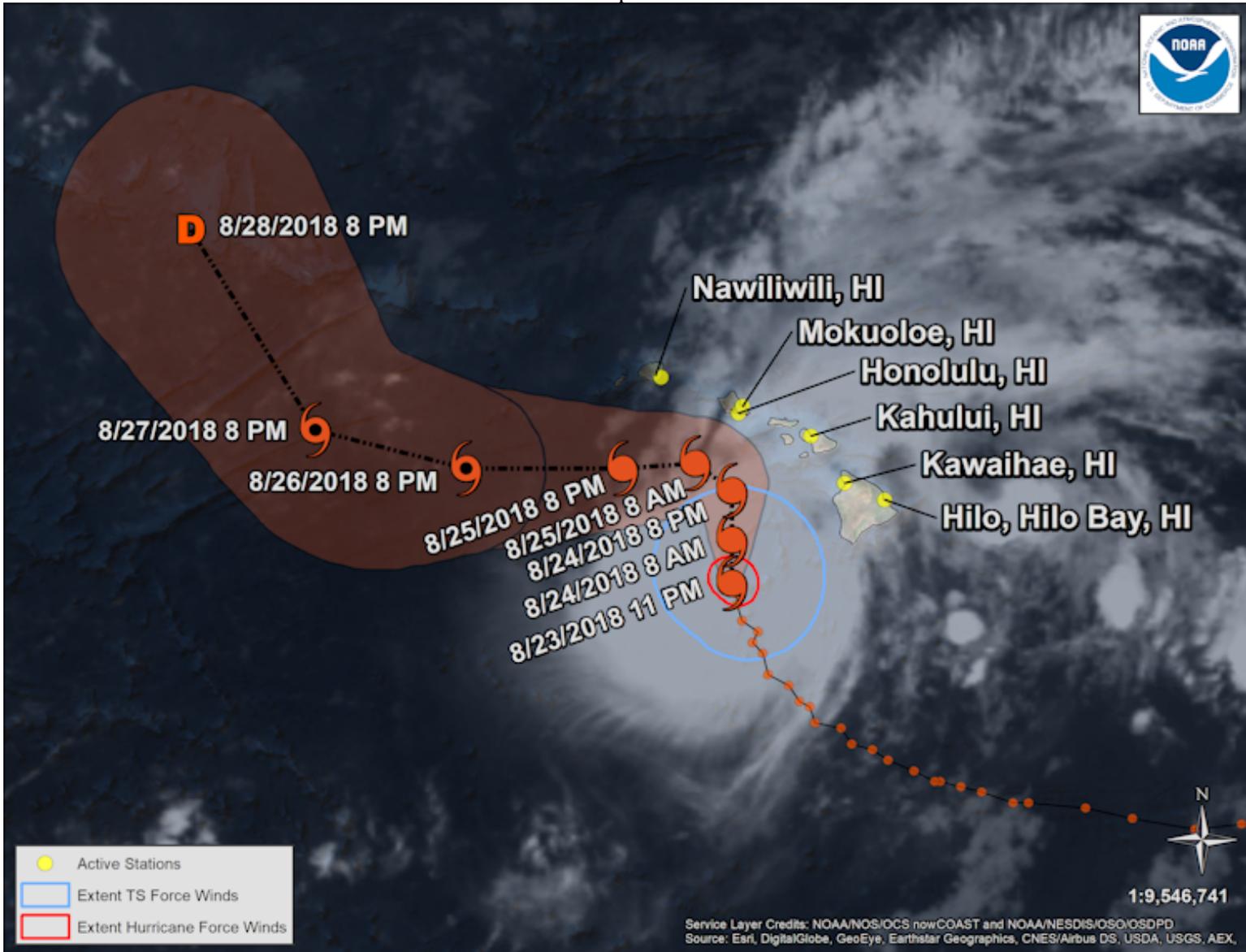


Hurricane Lane QuickLook
Posted: 00:00 HST 08/24/2018

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 8/24/2018 00:00 HST water levels across the Hawaiian Islands remain elevated above normal tide levels. Water levels from the island of Hawai'i to Oahu range between 0.5 and 0.9 feet above tidal predictions. Water levels on Kauai are measuring 0.2 to 0.3 feet above normal tide levels.

The strongest winds are presently being observed at Kawaihae on the island of Hawai'i with winds of over 30 kts and gusts up to 50 kts measured over the last few hours. Winds of 10 to 20 knots with gusts to 25 knots are being measured at Kahului (Maui) and Mokuoloe (Oahu). Barometric pressure is slowly decreasing across the islands, with the largest drop presently being observed 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: PFF

Select Central Pacific Hurricane Center Advisory Information:

Hurricane Lane Advisory Number 39
NWS Central Pacific Hurricane Center Honolulu HI EP142018
1100 PM HST Thu Aug 23 2018

...DANGEROUS HURRICANE LANE MOVING NORTH TOWARD THE MAIN HAWAIIAN ISLANDS...
...EXTREME FLOODING OCCURRING ON THE BIG ISLAND OF HAWAII...

SUMMARY OF 1100 PM HST...0900 UTC...INFORMATION

LOCATION...18.2N 158.0W
ABOUT 165 MI...260 KM SW OF KAILUA-KONA HAWAII
ABOUT 215 MI...345 KM S OF HONOLULU HAWAII
MAXIMUM SUSTAINED WINDS...120 MPH...195 KM/H
PRESENT MOVEMENT...N OR 350 DEGREES AT 6 MPH...9 KM/H
MINIMUM CENTRAL PRESSURE...956 MB...28.23 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

None.

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

At 1100 PM HST (0900 UTC), the center of Hurricane Lane was located near latitude 18.2 North, longitude 158.0 West. Lane is moving toward the north near 6 mph (9 km/h), and this general motion is expected to continue through Friday. A turn toward the west is anticipated Saturday, with an increase in forward speed. On the latest forecast track, the center of Lane will move over, or dangerously close to portions of the main Hawaiian islands late Friday and Friday night.

Maximum sustained winds are near 120 mph (195 km/h) with higher gusts. Lane remains a powerful category 3 hurricane on the Saffir-Simpson Hurricane Wind Scale. Some weakening is forecast from Friday through late Saturday, but Lane is expected to remain a hurricane as it approaches 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 (205 km).

The estimated minimum central pressure is 956 mb (28.23 inches).

HAZARDS AFFECTING LAND

WIND: Tropical storm conditions are already occurring on the Big Island, Maui County and Oahu. These conditions will likely persist through early Friday morning. Hurricane conditions are expected over some areas of Maui County and Oahu starting Friday and continuing through Friday night. Tropical storm or hurricane conditions are possible on Kauai starting late Friday or Friday night

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 of 30 to 40 inches possible over portions of the Hawaiian Islands. Over two feet of rain has already fallen at a few locations on the windward side of the Big Island

SURF: Very large swells generated by the slow moving hurricane will severely impact the Hawaiian Islands over the next couple of days. These swells will produce extremely 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

Next intermediate advisory at 200 AM HST.

Next complete advisory at 500 AM HST.

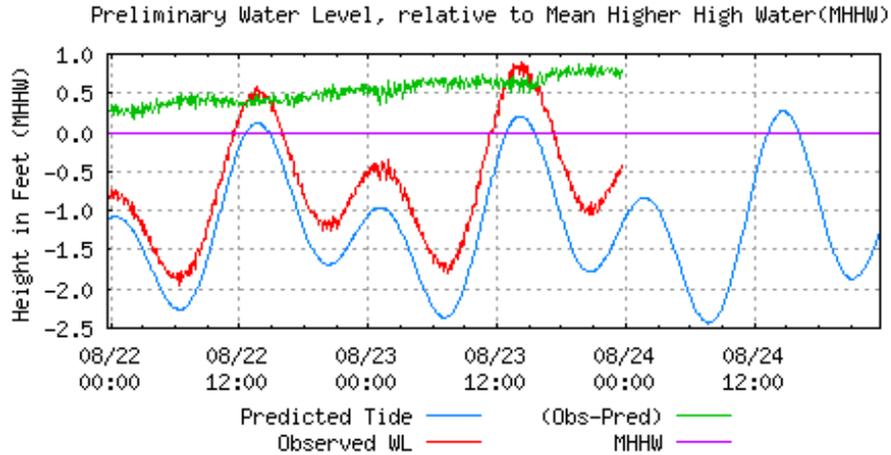
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Forecaster Houston

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.

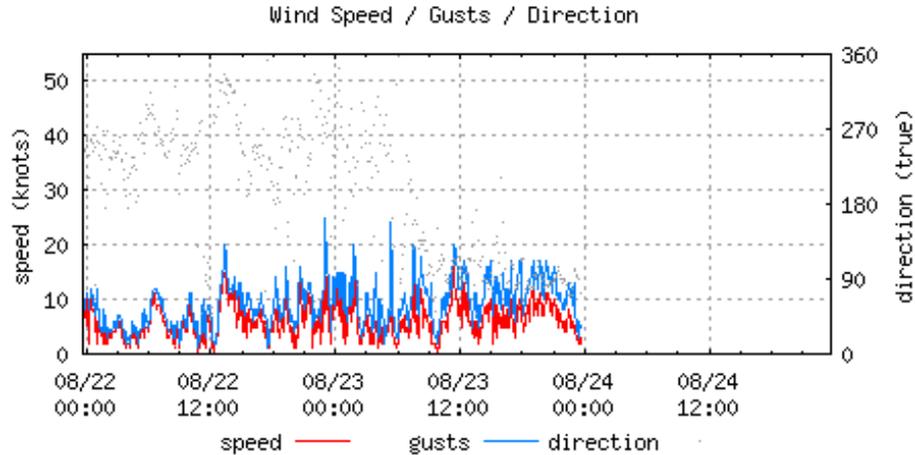
Jump to: [Hilo, Hilo Bay, Kuhio Bay - Water Level](#), [Hilo, Hilo Bay, Kuhio Bay - Winds](#), [Hilo, Hilo Bay, Kuhio Bay - Barometric](#), [Kawaihae - Water Level](#), [Kawaihae - Winds](#), [Kawaihae - Barometric](#), [Kahului, Kahului Harbor - Water Level](#), [Kahului, Kahului Harbor - Winds](#),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



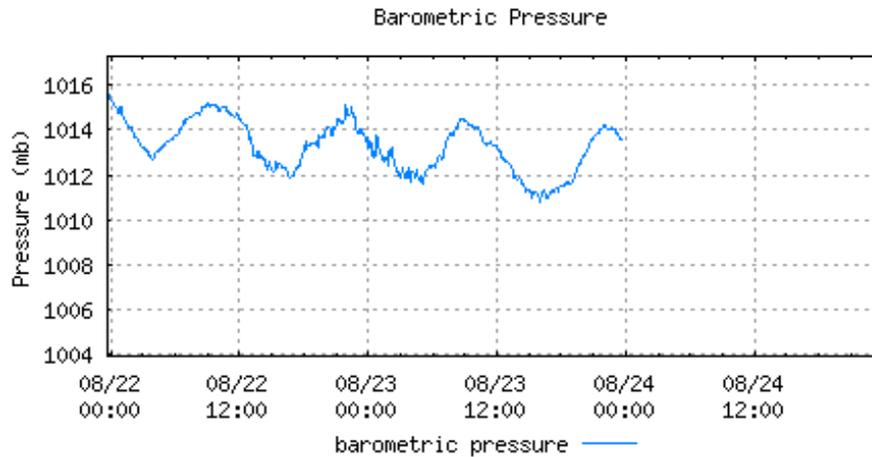
Last Observed Sample: 08/23/2018 23:36 (HST). Data relative to MHHW
Observed: -0.42 ft. Predicted: -1.20 ft. Residual: 0.78 ft.
Historical Maximum Water Level: Jul 24 2017, 1.54 ft.
Next High Tide: 08/24/2018 01:44 (HST), -0.83 ft.

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



Last Observed Sample: 08/23/2018 23:36 (HST)
Wind Speed: 2 knots Gusts: 5 knots Direction: 74° T

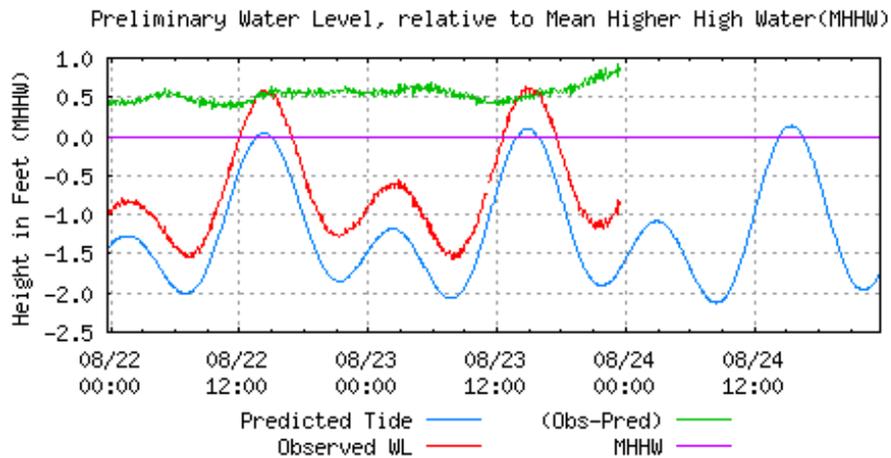
NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI



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

Barometric Pressure: 1013.6 mb

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI



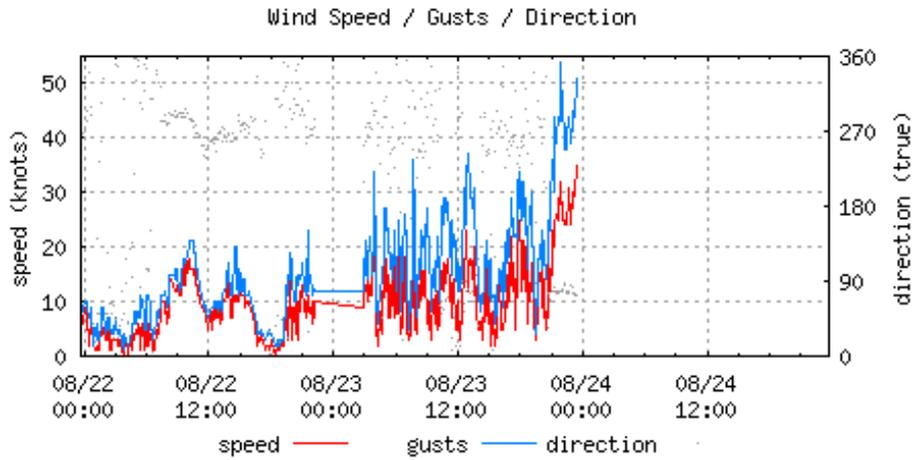
Last Observed Sample: 08/23/2018 23:24 (HST). Data relative to MHHW

Observed: -0.87 ft. Predicted: -1.71 ft. Residual: 0.84 ft.

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

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

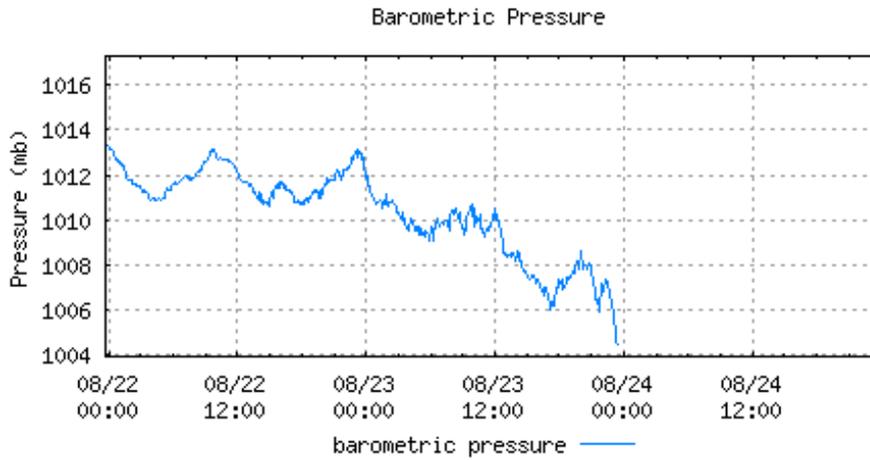
NOAA/NOS/CO-OPS 1617433 Kawaihae, HI



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

Wind Speed: 35 knots Gusts: 51 knots Direction: 74° T

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI

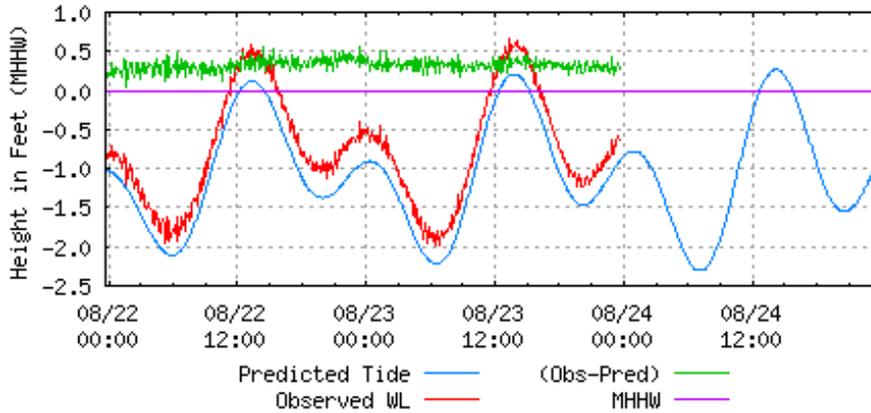


Last Observed Sample: 08/23/2018 23:24 (HST)

Barometric Pressure: 1004.4 mb

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

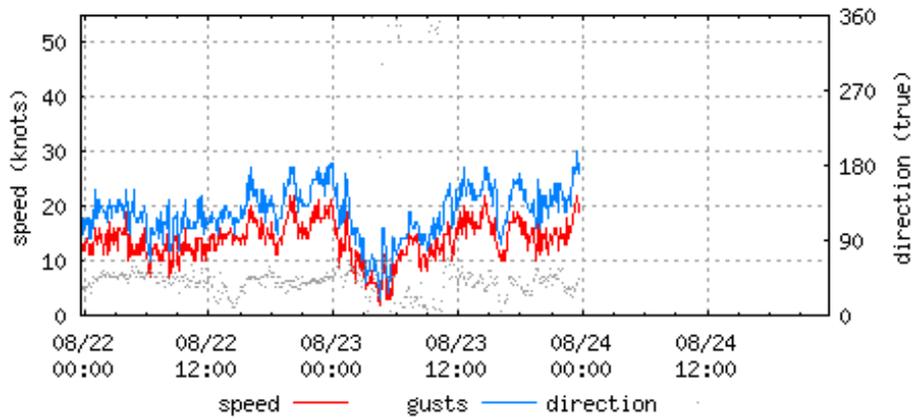
Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 08/23/2018 23:36 (HST). Data relative to MHHW
Observed: -0.63 ft. Predicted: -0.91 ft. Residual: 0.28 ft.
 Historical Maximum Water Level: Aug 21 2017, 1.33 ft.
 Next High Tide: 08/24/2018 00:56 (HST), -0.78 ft.

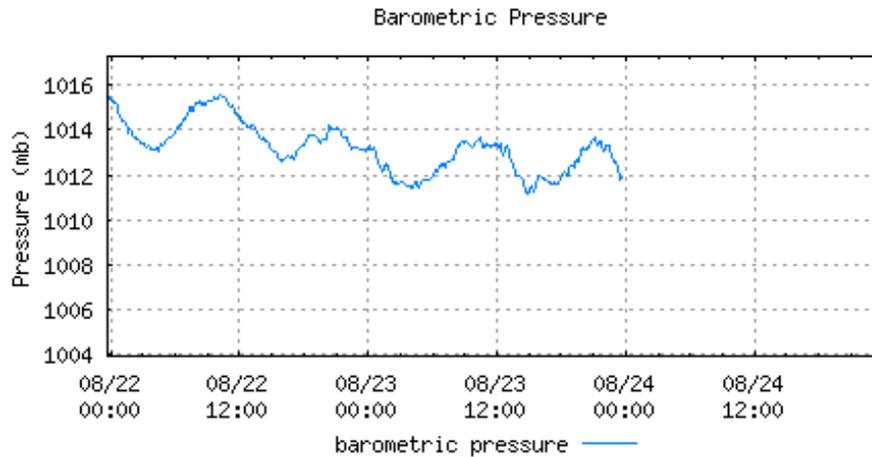
NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI

Wind Speed / Gusts / Direction



Last Observed Sample: 08/23/2018 23:36 (HST)
Wind Speed: 19 knots Gusts: 26 knots Direction: 44° T

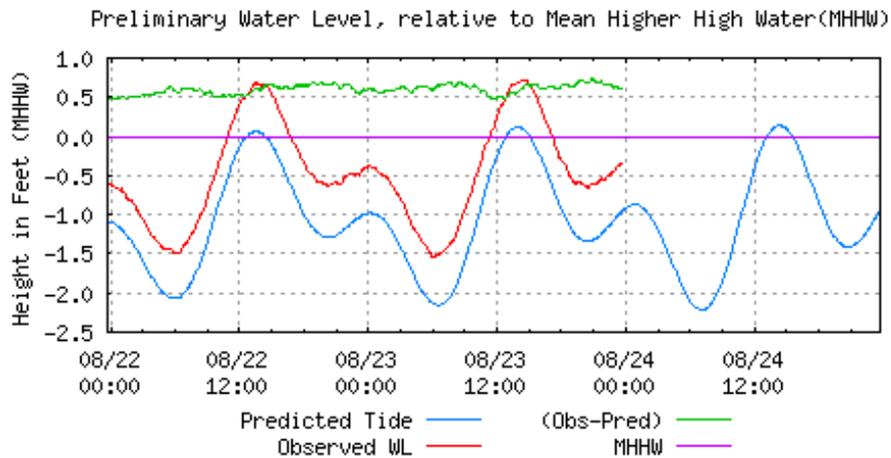
NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI



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

Barometric Pressure: 1011.9 mb

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI



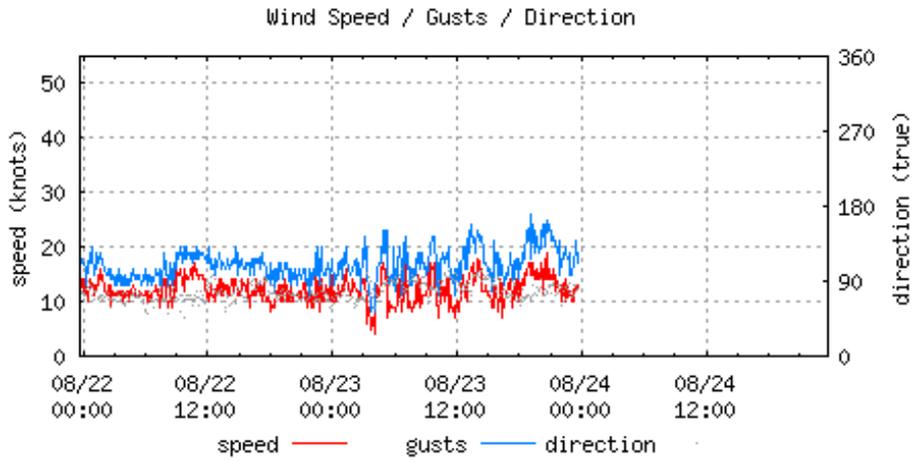
Last Observed Sample: 08/23/2018 23:42 (HST). Data relative to MHHW

Observed: -0.33 ft. Predicted: -0.95 ft. Residual: 0.62 ft.

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

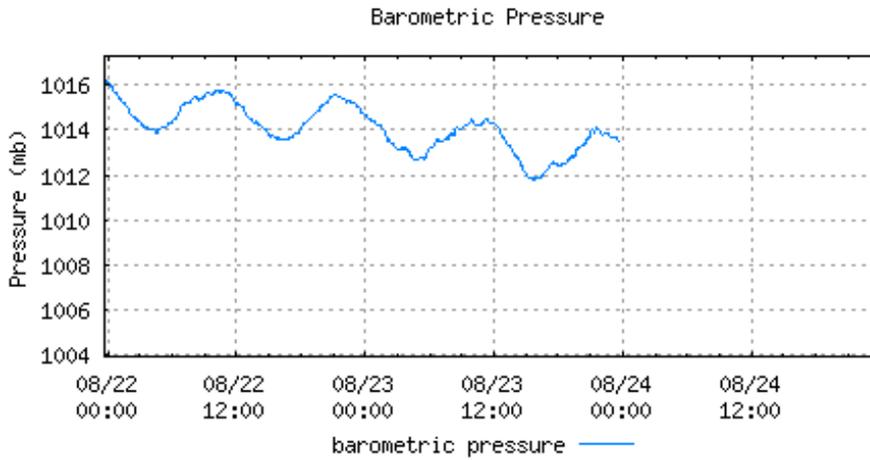
Next High Tide: 08/24/2018 00:50 (HST), -0.87 ft.

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI



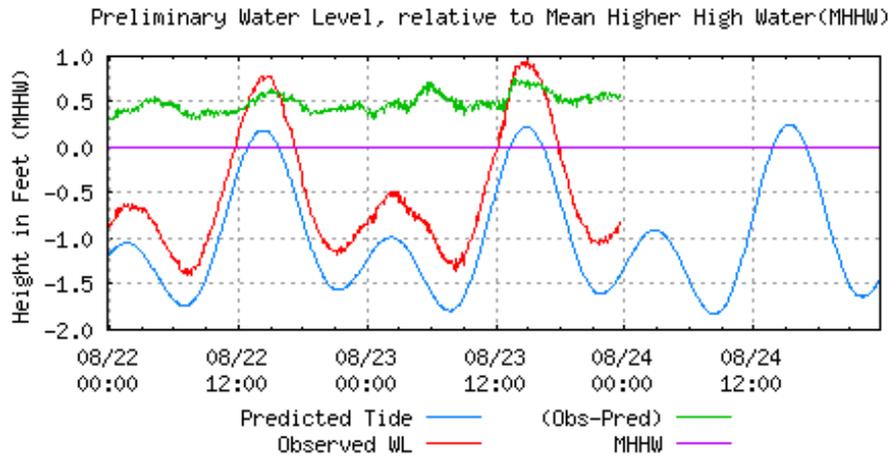
Last Observed Sample: 08/23/2018 23:42 (HST)
Wind Speed: 13 knots Gusts: 17 knots Direction: 80° T

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI



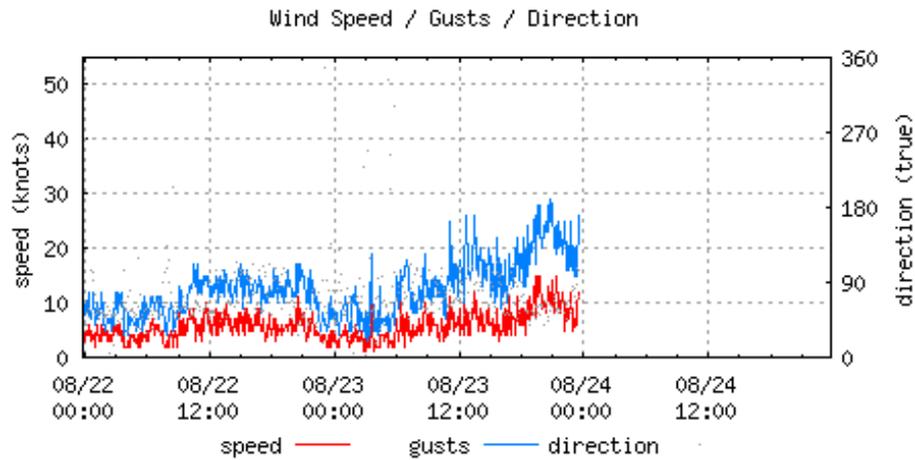
Last Observed Sample: 08/23/2018 23:42 (HST)
Barometric Pressure: 1013.4 mb

NOAA/NOS/CO-OPS 1612340 Honolulu, HI



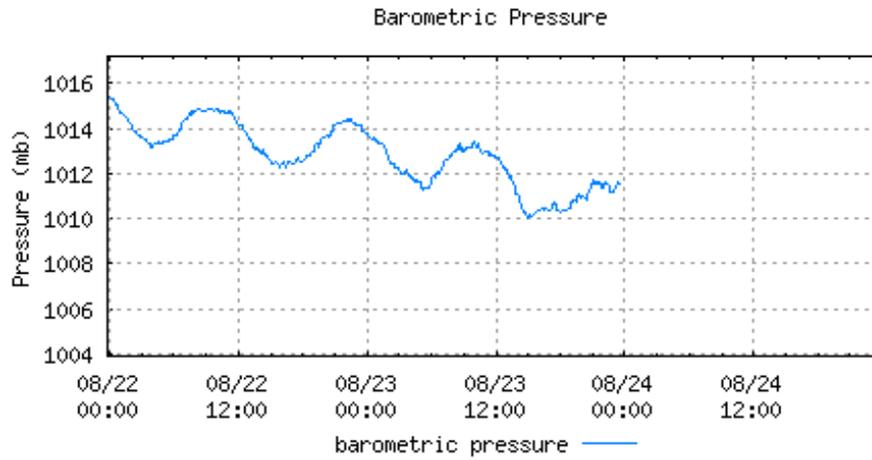
Last Observed Sample: 08/23/2018 23:36 (HST). Data relative to MHHW
Observed: -0.84 ft. Predicted: -1.39 ft. Residual: 0.55 ft.
 Historical Maximum Water Level: Sep 11 1992, 1.47 ft.
 Next High Tide: 08/24/2018 02:48 (HST), -0.91 ft.

NOAA/NOS/CO-OPS 1612340 Honolulu, HI



Last Observed Sample: 08/23/2018 23:36 (HST)
Wind Speed: 11 knots Gusts: 21 knots Direction: 74° T

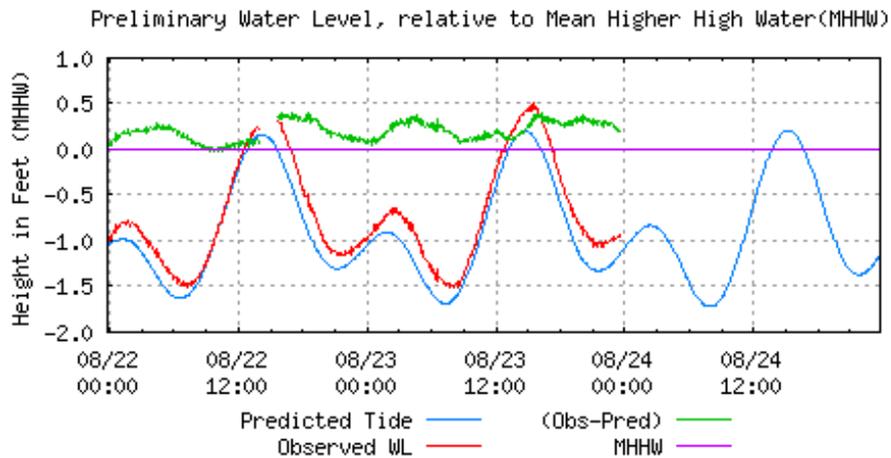
NOAA/NOS/CO-OPS 1612340 Honolulu, HI



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

Barometric Pressure: 1011.5 mb

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI



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

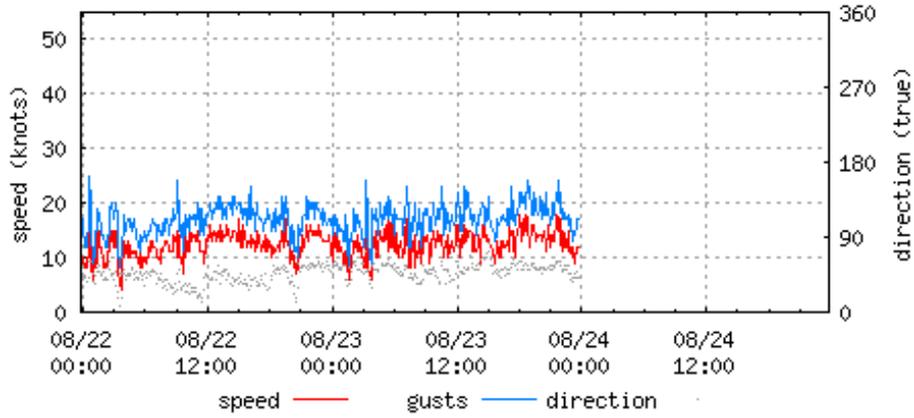
Observed: -0.93 ft. Predicted: -1.14 ft. Residual: 0.21 ft.

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

Wind Speed / Gusts / Direction

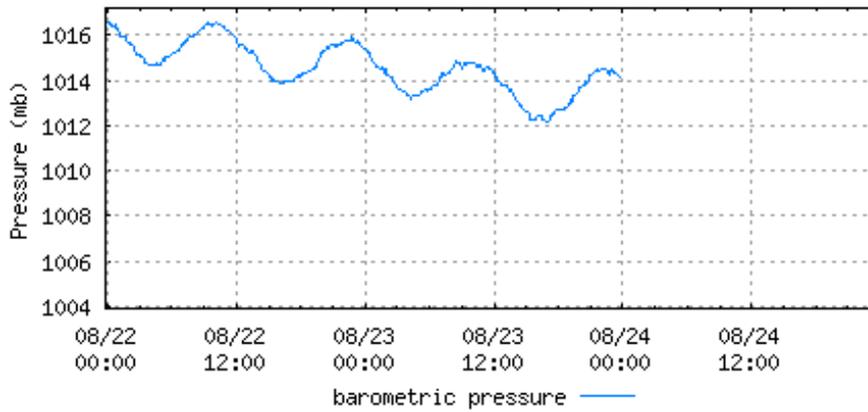


Last Observed Sample: 08/23/2018 23:42 (HST)

Wind Speed: 12 knots Gusts: 17 knots Direction: 41° T

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI

Barometric Pressure



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

Barometric Pressure: 1014.1 mb

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
1617760	Hilo, Hilo Bay, Kuhio Bay, HI	08/23/2018 23:36 (HST)	-0.42 ft	-1.20 ft	0.78 ft	0.90 ft
1617433	Kawaihae, HI	08/23/2018 23:24 (HST)	-0.87 ft	-1.71 ft	0.84 ft	0.63 ft
1615680	Kahului, Kahului Harbor, HI	08/23/2018 23:36 (HST)	-0.63 ft	-0.91 ft	0.28 ft	0.66 ft
1612480	Mokuoloe, HI	08/23/2018 23:42 (HST)	-0.33 ft	-0.95 ft	0.62 ft	0.72 ft
1612340	Honolulu, HI	08/23/2018 23:36 (HST)	-0.84 ft	-1.39 ft	0.55 ft	0.96 ft
1611400	Nawiliwili, HI	08/23/2018 23:42 (HST)	-0.93 ft	-1.14 ft	0.21 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