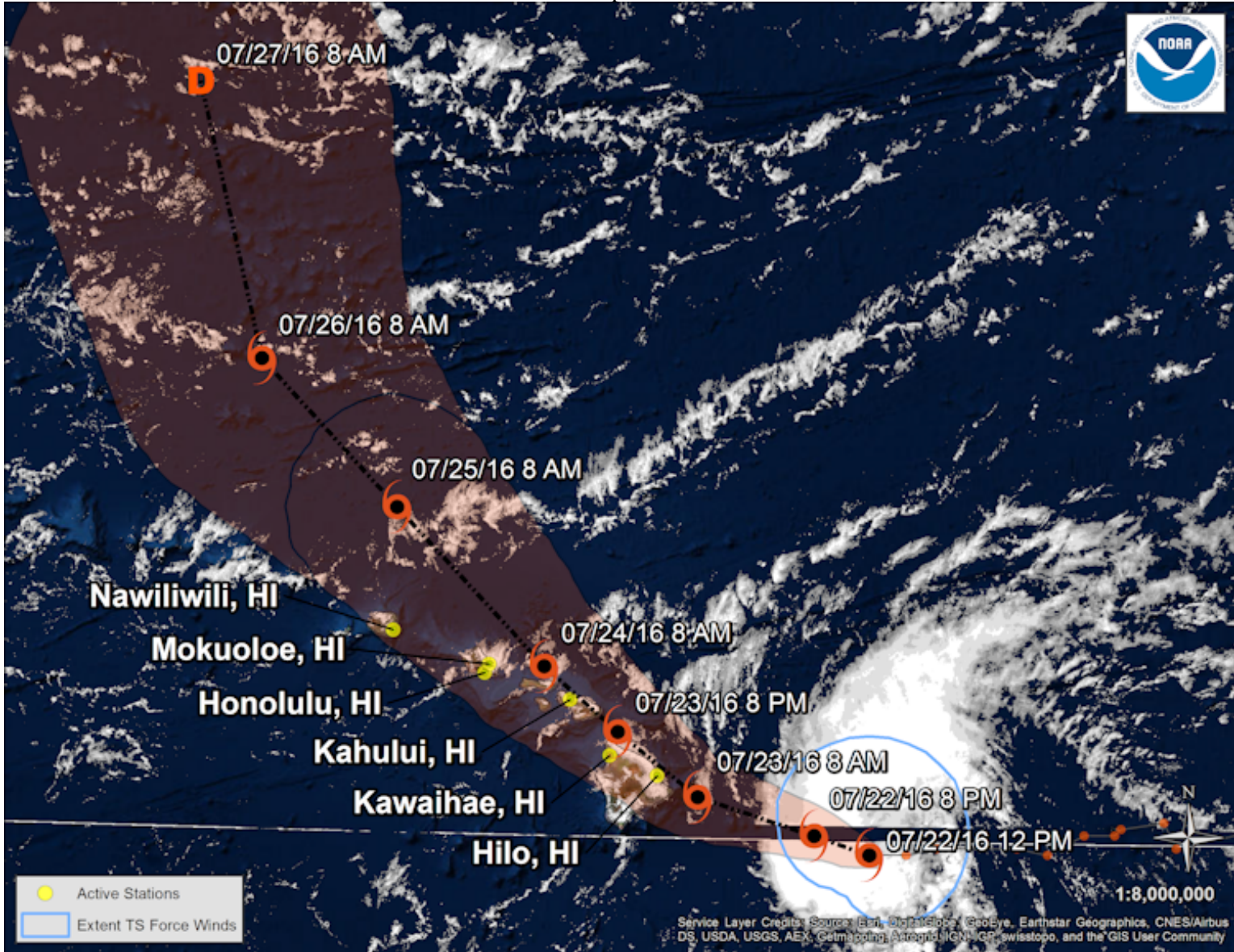




Tropical Storm DARBY QuickLook  
Posted: 18:00 HST 07/22/2016

NOAA and NOAA Partnership Stations Relative to the Storm



### Storm Analysis

As 07/22/2016 18:00 HST, water levels across the Hawaiian Islands are close to or slightly above predictions with levels up to 0.3 ft above normal tide levels. Winds are increasing slightly plotting between 5 and 20 knots, with gusts to 25 knots. Barometric pressure is gradually falling across the region.

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: KLO

-----  
TROPICAL STORM DARBY ADVISORY NUMBER 46  
NWS CENTRAL PACIFIC HURRICANE CENTER HONOLULU HI EP052016  
500 PM HST FRI JUL 22 2016

...DARBY EXPECTED TO REACH THE BIG ISLAND SATURDAY...

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

-----  
LOCATION...18.7N 152.1W  
ABOUT 205 MI...335 KM ESE OF HILO HAWAII  
ABOUT 415 MI...670 KM ESE OF HONOLULU HAWAII  
MAXIMUM SUSTAINED WINDS...60 MPH...95 KM/H  
PRESENT MOVEMENT...W OR 280 DEGREES AT 12 MPH...19 KM/H  
MINIMUM CENTRAL PRESSURE...1000 MB...29.53 INCHES

WATCHES AND WARNINGS

-----  
CHANGES WITH THIS ADVISORY:

A Tropical Storm Watch has been issued for Oahu.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Tropical Storm Warning is in effect for...

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

A Tropical Storm Watch is in effect for...

- \* Oahu

A Tropical Storm Warning means that tropical storm conditions are expected within the warning area within 36 hours.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area within 48 hours.

Interests elsewhere in the Hawaiian Islands should monitor the progress of Darby. Watches and warnings may be required for additional islands later tonight or Saturday.

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

in Honolulu Hawaii.

#### DISCUSSION AND 48-HOUR OUTLOOK

-----  
At 500 PM HST (0300 UTC), the center of Tropical Storm Darby was located near 18.7N 152.1W. Darby is moving toward the west near 12 mph (19 km/h). Darby's forward motion is expected to slow slightly Saturday followed by a turn toward the northwest Saturday night. On the forecast track, the center of Darby is forecast to pass over or near the Big Island on Saturday, and Maui on Saturday night.

Maximum sustained winds are near 60 mph (95 km/h) with higher gusts. Some weakening is forecast during the next 48 hours.

Tropical-storm-force winds extend outward up to 125 miles (205 km) from the center.

The estimated minimum central pressure is 1000 mb (29.53 inches).

#### HAZARDS AFFECTING LAND

-----  
WIND: Tropical storm force winds are expected over the Big Island starting late tonight, and over portions of Maui County on Saturday. Tropical storm force winds are possible over Oahu Saturday night or Sunday.

SURF: Swells generated by Darby are expected to impact the Hawaiian Islands over the next couple of days.

RAINFALL: Storm total rainfall of 10 to 15 inches with locally higher amounts...could cause life-threatening flash floods as well as landslides.

#### NEXT ADVISORY

-----  
Next intermediate advisory at 800 PM HST.

Next complete advisory at 1100 PM HST.

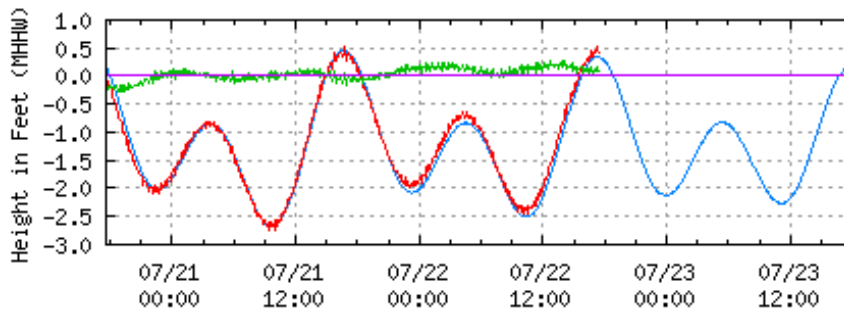
\$\$

Forecaster Kodama

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](#), [Honolulu - Water Level](#), [Honolulu - Winds](#), [Nawiliwili - Water Level](#), [Nawiliwili - Winds](#)

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

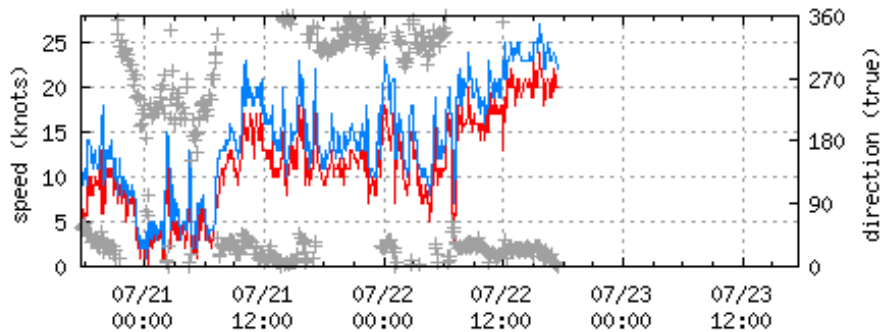
Last Observed Sample: 07/22/2016 17:24 (HST). Data relative to MHHW

Observed: 0.43 ft. Predicted: 0.34 ft. Residual: 0.09 ft.

Historical Maximum Water Level: Jan 20 1981, 1.37 ft.

Next High Tide: 07/23/2016 05:25 (HST), -0.82 ft.

NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI  
 Wind Speed / Gusts / Direction

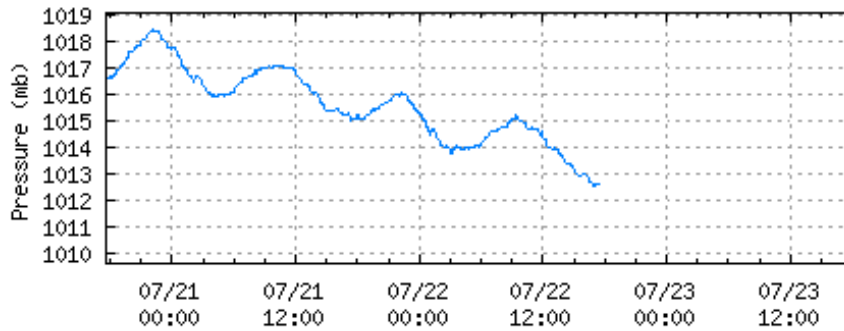


speed ——— (red line)      gusts ——— (blue line)      direction +

Last Observed Sample: 07/22/2016 17:24 (HST)

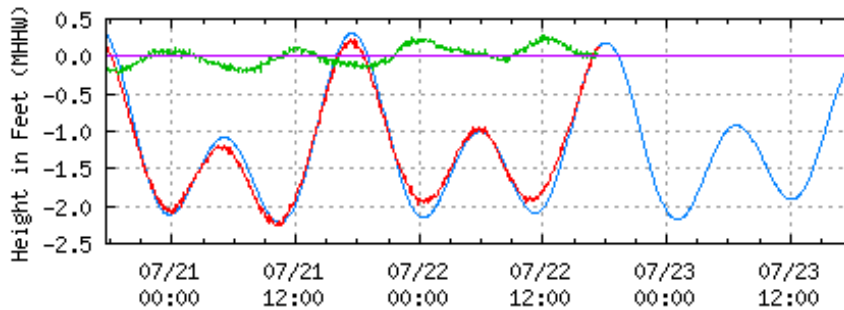
Wind Speed: 20 knots Gusts: 22 knots Direction: 1° T

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



barometric pressure —  
Last Observed Sample: 07/22/2016 17:24 (HST)  
Barometric Pressure: 1012.6 mb

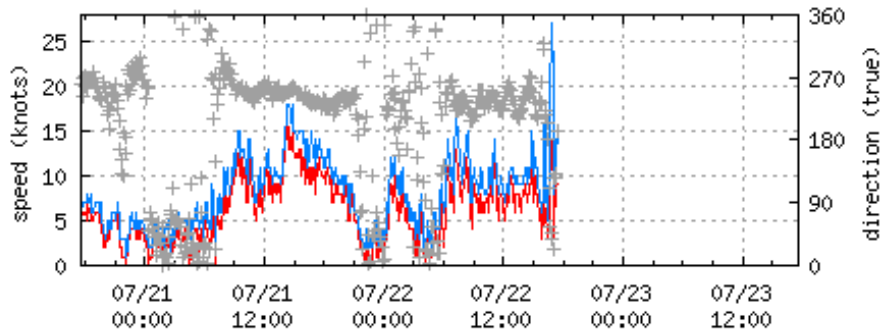
NOAA/NOS/CO-OPS 1617433 Kawaihae, HI  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



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

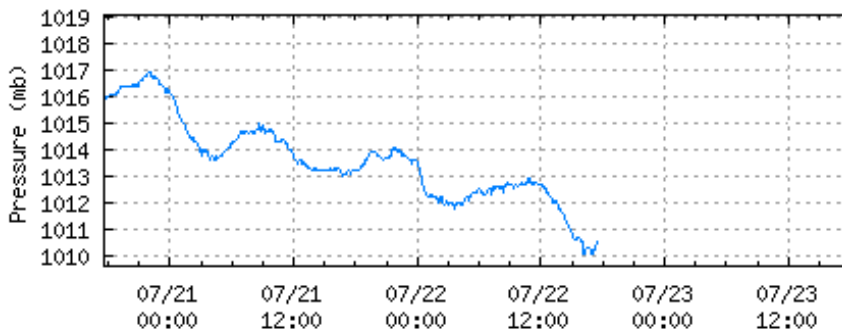
Last Observed Sample: 07/22/2016 17:24 (HST). Data relative to MHHW  
**Observed: 0.12 ft. Predicted: 0.12 ft. Residual: 0.00 ft.**  
Historical Maximum Water Level: Dec 13 2008, 1.22 ft.  
Next High Tide: 07/22/2016 18:06 (HST), 0.18 ft.

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI  
Wind Speed / Gusts / Direction



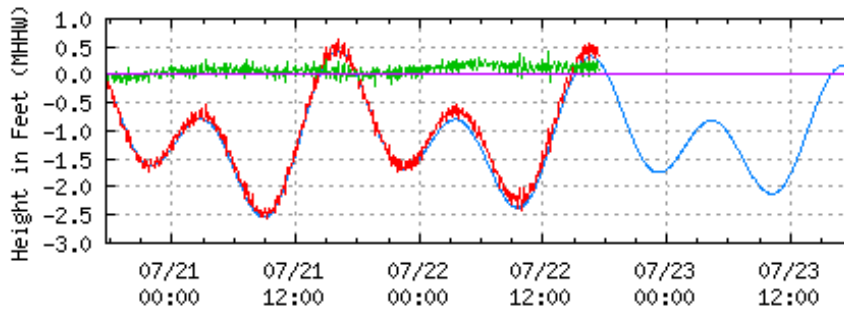
speed — gusts — direction +  
Last Observed Sample: 07/22/2016 17:24 (HST)  
Wind Speed: 9 knots Gusts: 14 knots Direction: 192° T

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI  
Barometric Pressure



barometric pressure —  
Last Observed Sample: 07/22/2016 17:24 (HST)  
Barometric Pressure: 1010.5 mb

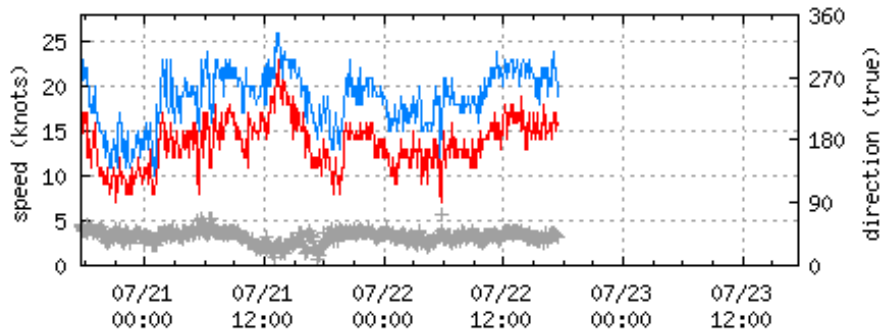
NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI  
Preliminary Water Level, relative to Mean Higher High Water(MHHW)



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

Last Observed Sample: 07/22/2016 17:24 (HST). Data relative to MHHW  
**Observed: 0.35 ft. Predicted: 0.25 ft. Residual: 0.10 ft.**  
Historical Maximum Water Level: Dec 20 1968, 1.23 ft.  
Next High Tide: 07/23/2016 04:22 (HST), -0.81 ft.

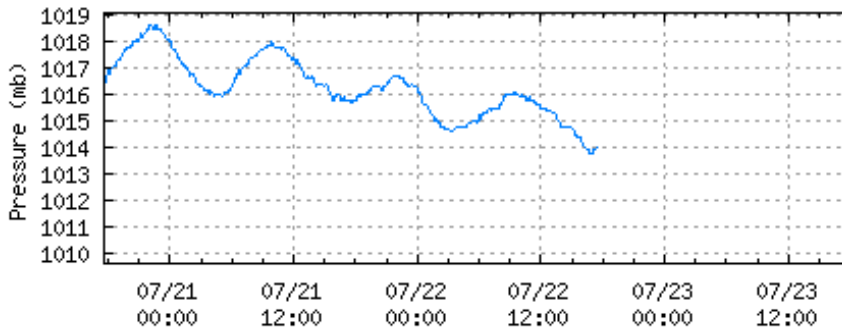
NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI  
Wind Speed / Gusts / Direction



speed ——— gusts ——— direction +

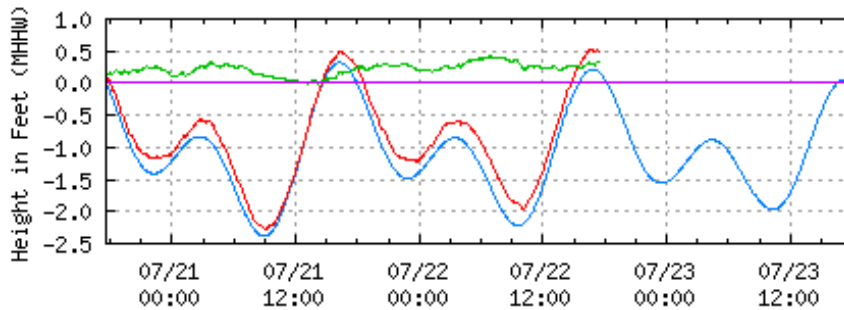
Last Observed Sample: 07/22/2016 17:24 (HST)  
**Wind Speed: 16 knots Gusts: 19 knots Direction: 42° T**

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



barometric pressure —  
Last Observed Sample: 07/22/2016 17:24 (HST)  
Barometric Pressure: 1014.0 mb

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)

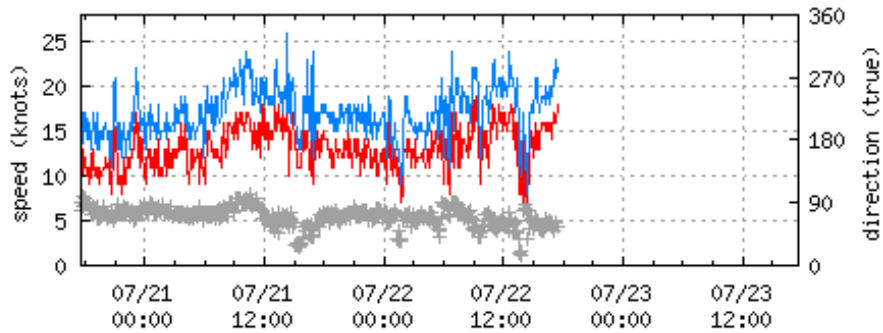


Predicted Tide — (Obs-Pred) —  
Observed WL — MHHW —

Last Observed Sample: 07/22/2016 17:24 (HST). Data relative to MHHW  
**Observed: 0.50 ft. Predicted: 0.18 ft. Residual: 0.32 ft.**  
Historical Maximum Water Level: Jan 8 1974, 1.46 ft.  
Next High Tide: 07/23/2016 04:25 (HST), -0.89 ft.

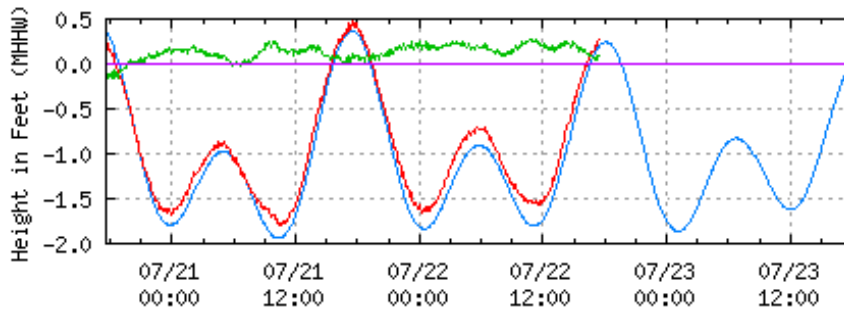


NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI  
Wind Speed / Gusts / Direction



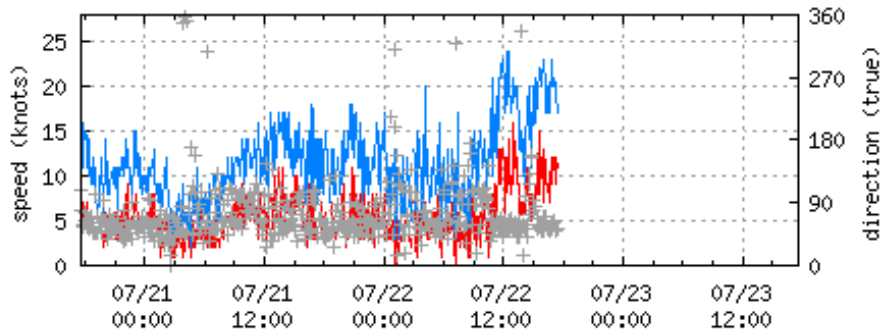
speed — gusts — direction +  
Last Observed Sample: 07/22/2016 17:24 (HST)  
Wind Speed: 18 knots Gusts: 22 knots Direction: 56° T

NOAA/NOS/CO-OPS 1612340 Honolulu, HI  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



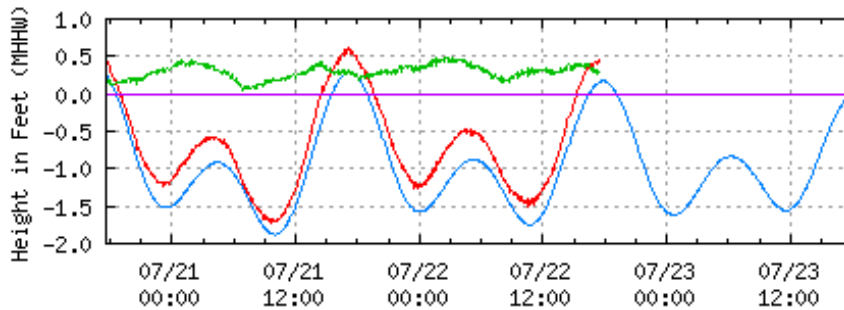
Predicted Tide — (Obs-Pred) —  
Observed WL — MHHW —  
Last Observed Sample: 07/22/2016 17:24 (HST). Data relative to MHHW  
Observed: 0.28 ft. Predicted: 0.19 ft. Residual: 0.09 ft.  
Historical Maximum Water Level: Feb 14 1967, 1.49 ft.  
Next High Tide: 07/22/2016 18:06 (HST), 0.24 ft.

NOAA/NOS/CO-OPS 1612340 Honolulu, HI  
Wind Speed / Gusts / Direction



speed — gusts — direction +  
Last Observed Sample: 07/22/2016 17:24 (HST)  
Wind Speed: 11 knots Gusts: 17 knots Direction: 53° T

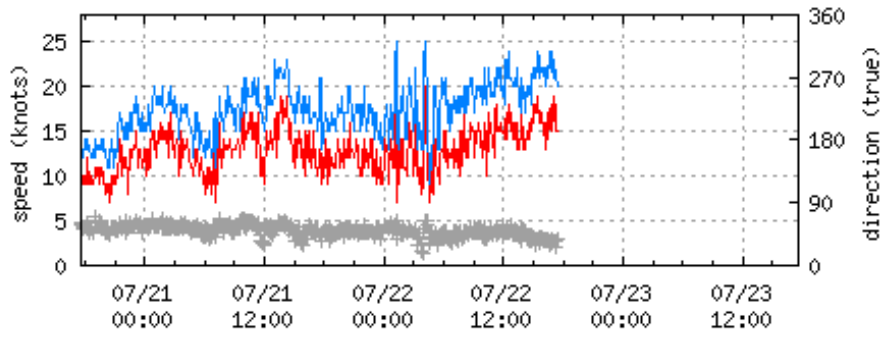
NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



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

Last Observed Sample: 07/22/2016 17:30 (HST). Data relative to MHHW  
Observed: 0.44 ft. Predicted: 0.16 ft. Residual: 0.28 ft.  
Historical Maximum Water Level: Sep 11 1992, 3.15 ft.  
Next High Tide: 07/22/2016 17:50 (HST), 0.17 ft.

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI  
Wind Speed / Gusts / Direction



speed — gusts — direction +  
Last Observed Sample: 07/22/2016 17:30 (HST)  
Wind Speed: 15 knots Gusts: 20 knots Direction: 39° T

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	07/22/2016 17:24 (HST)	0.43 ft	0.34 ft	0.09 ft	0.51 ft
1617433	Kawaihae, HI	07/22/2016 17:24 (HST)	0.12 ft	0.12 ft	0.00 ft	0.22 ft
1615680	Kahului, Kahului Harbor, HI	07/22/2016 17:24 (HST)	0.35 ft	0.25 ft	0.10 ft	0.56 ft
1612480	Mokuoloe, HI	07/22/2016 17:24 (HST)	0.50 ft	0.18 ft	0.32 ft	0.52 ft
1612340	Honolulu, HI	07/22/2016 17:24 (HST)	0.28 ft	0.19 ft	0.09 ft	0.49 ft
1611400	Nawiliwili, HI	07/22/2016 17:30 (HST)	0.44 ft	0.16 ft	0.28 ft	0.56 ft

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