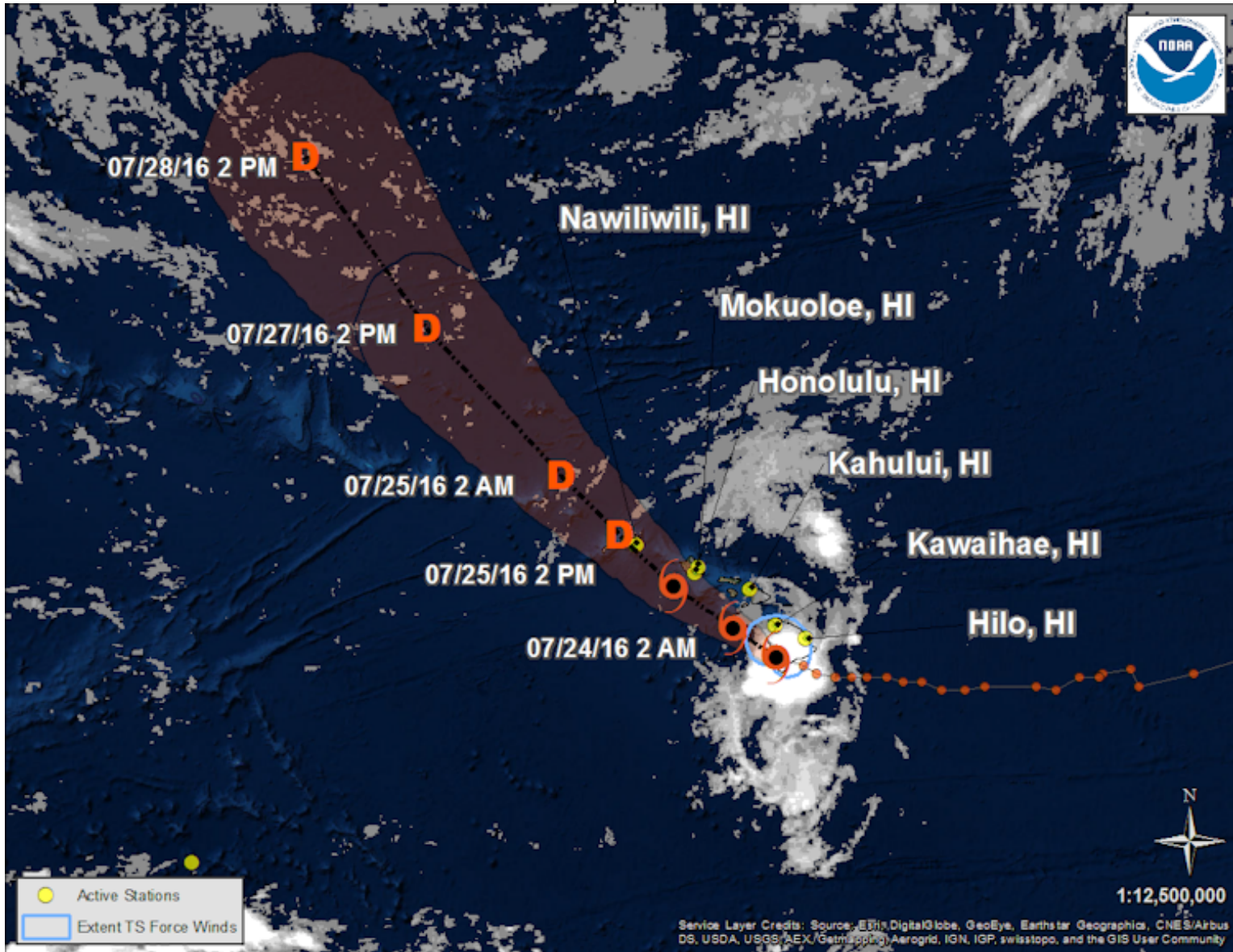




Tropical Storm DARBY QuickLook  
Posted: 00:00 HST 07/24/2016

NOAA and NOAA Partnership Stations Relative to the Storm



### Storm Analysis

As of 07/24/2016 23:00 HST, water levels across the Hawaiian Islands are slightly elevated and range between 0.24 and 0.39 ft above normal tide levels. Wind speeds are decreasing range between 2 and 15 knots with some gusts at 20 knots. Barometric pressure continues to fall 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: LBA

-----  
SELECT CENTRAL PACIFIC HURRICANE CENTER ADVISORY INFORMATION:

BULLETIN

TROPICAL STORM DARBY ADVISORY NUMBER 51

NWS CENTRAL PACIFIC HURRICANE CENTER HONOLULU HI EP052016

1100 PM HST SAT JUL 23 2016

...DARBY CONTINUES MOVING SLOWLY WEST-NORTHWESTWARD AWAY FROM THE BIG ISLAND...

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

-----  
LOCATION...19.5N 156.8W

ABOUT 55 MI...85 KM W OF KAILUA-KONA HAWAII

ABOUT 145 MI...230 KM SSE OF HONOLULU HAWAII

MAXIMUM SUSTAINED WINDS...40 MPH...65 KM/H

PRESENT MOVEMENT...WNW OR 290 DEGREES AT 10 MPH...17 KM/H

MINIMUM CENTRAL PRESSURE...1004 MB...29.65 INCHES

WATCHES AND WARNINGS

-----  
CHANGES WITH THIS ADVISORY:

None.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Tropical Storm Warning is in effect for...

\* All islands in the state of Hawaii.

A Tropical Storm Warning means that tropical storm conditions are imminent or already occurring. In this case, tropical storm conditions are occurring over portions of the Big Island, and are expected over Maui County and Oahu later tonight and Sunday.

Interests in the eastern portion of the Papahānaumokuākea Marine National Monument should monitor the progress of Darby.

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 1100 PM HST (0900 UTC), the center of Tropical Storm Darby was located near latitude 19.5 North, longitude 156.8 West. Darby is moving toward the west-northwest near 10 mph (17 km/h). Darby is forecast to make a slight turn toward the northwest later tonight and continue moving west-northwest over the next 48 hours, with little change in forward speed.

Maximum sustained winds are near 40 mph (65 km/h) with higher gusts. Little change in intensity is forecast through Sunday night with slight weakening expected by Monday.

Tropical-storm-force winds extend outward up to 70 miles (110 km) from the center. Sustained winds of 33 mph with gusts to 56 mph were reported at the Oahu Forest NWR RAWs site in the Koolau mountain range earlier this evening.

The estimated minimum central pressure is 1004 mb (29.65 inches).

#### HAZARDS AFFECTING LAND

-----

**WIND:** Tropical storm force winds are occurring over portions of the Big Island, and are expected to occur over portions of Maui County later tonight and Sunday, over Oahu Sunday and Sunday night, and over Kauai County Sunday night and Monday.

**SURF:** Swells generated by Darby are expected to impact the Hawaiian Islands over the next day or so, with swells diminishing thereafter.

**RAINFALL:** Storm total rainfall of 8 to 12 inches, with possible isolated maximum amounts of 15 inches. These rains could produce life-threatening flash floods and landslides.

#### NEXT ADVISORY

-----

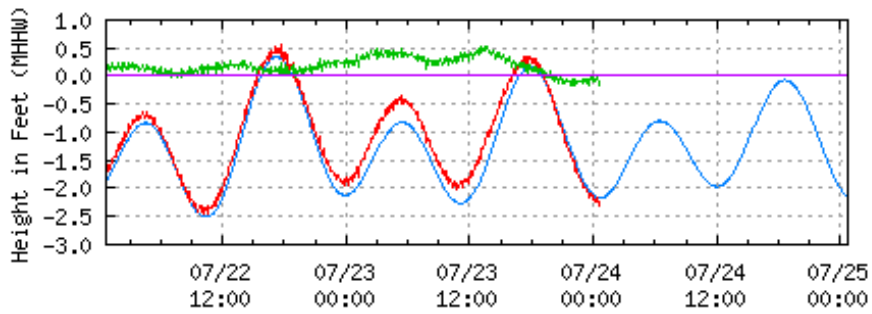
Next intermediate advisory at 200 AM HST.  
Next complete advisory at 500 AM HST.

Forecaster Houston/Jelsema

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



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

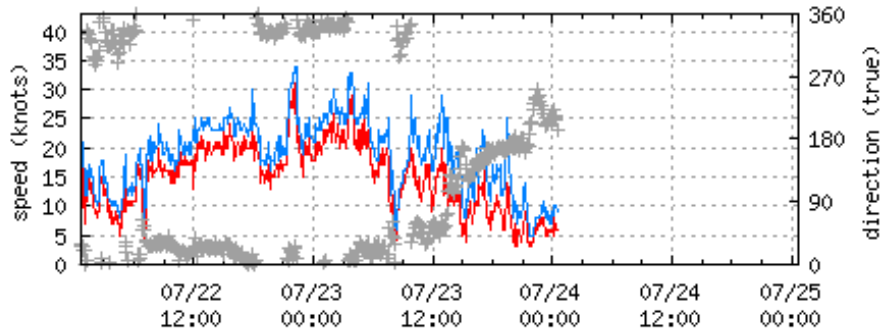
Last Observed Sample: 07/24/2016 00:30 (HST). Data relative to MHHW

Observed: -2.32 ft. Predicted: -2.17 ft. Residual: -0.15 ft.

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

Next High Tide: 07/24/2016 06:27 (HST), -0.80 ft.

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

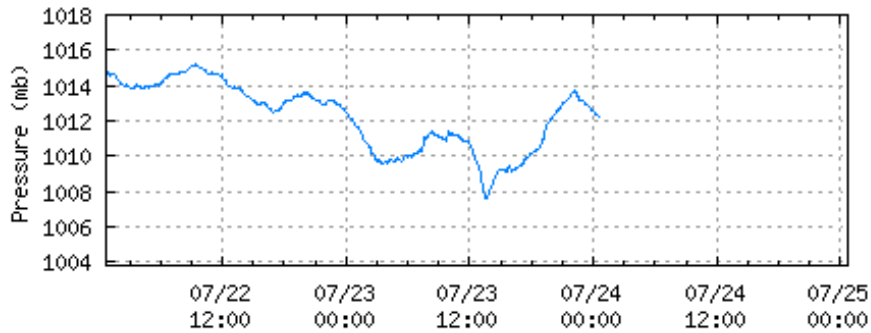


speed ——— red ——— gusts ——— blue ——— direction +

Last Observed Sample: 07/24/2016 00:30 (HST)

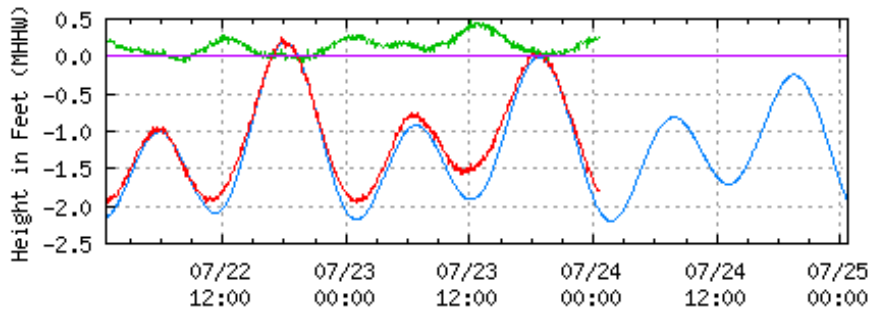
Wind Speed: 6 knots Gusts: 9 knots Direction: 194° T

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



barometric pressure —  
Last Observed Sample: 07/24/2016 00:30 (HST)  
Barometric Pressure: 1012.2 mb

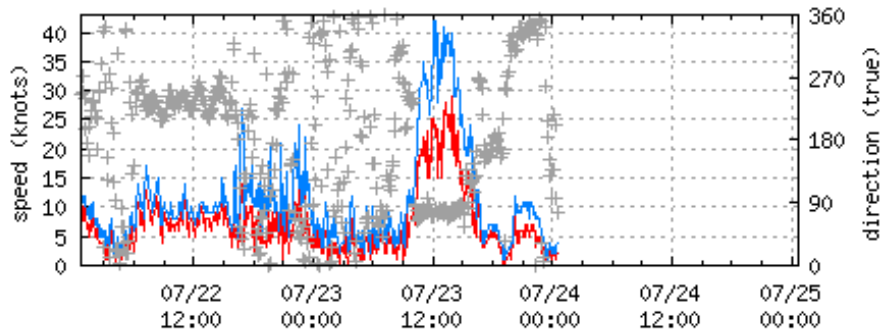
NOAA/NOS/CO-OPS 1617433 Kawaihae, HI  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



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

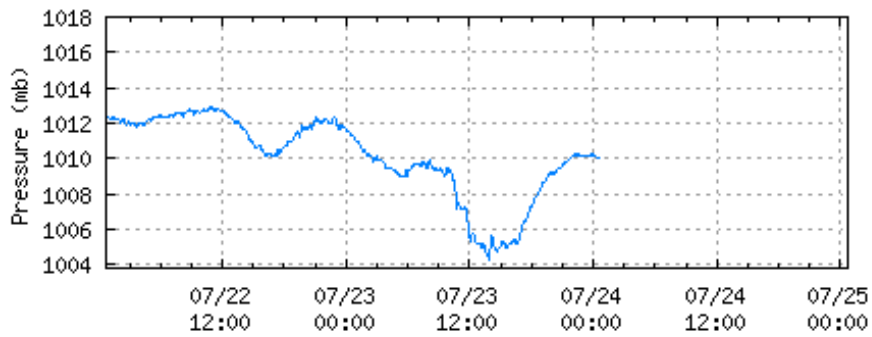
Last Observed Sample: 07/24/2016 00:30 (HST). Data relative to MHHW  
**Observed: -1.80 ft. Predicted: -2.05 ft. Residual: 0.25 ft.**  
Historical Maximum Water Level: Dec 13 2008, 1.22 ft.  
Next High Tide: 07/24/2016 07:49 (HST), -0.82 ft.

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



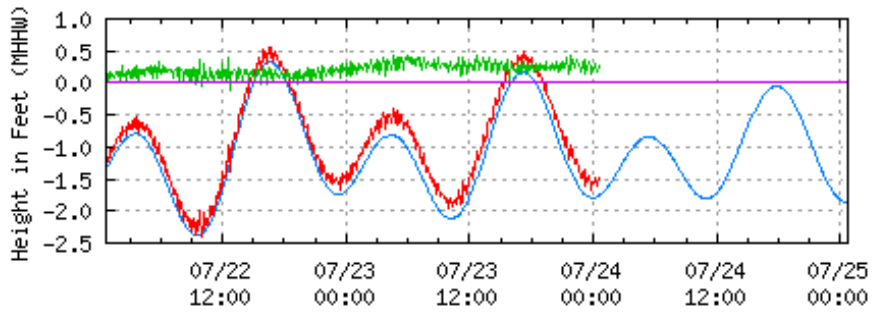
speed — gusts — direction +  
Last Observed Sample: 07/24/2016 00:30 (HST)  
Wind Speed: 2 knots Gusts: 4 knots Direction: 75° T

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



barometric pressure —  
Last Observed Sample: 07/24/2016 00:30 (HST)  
Barometric Pressure: 1010.0 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 ———

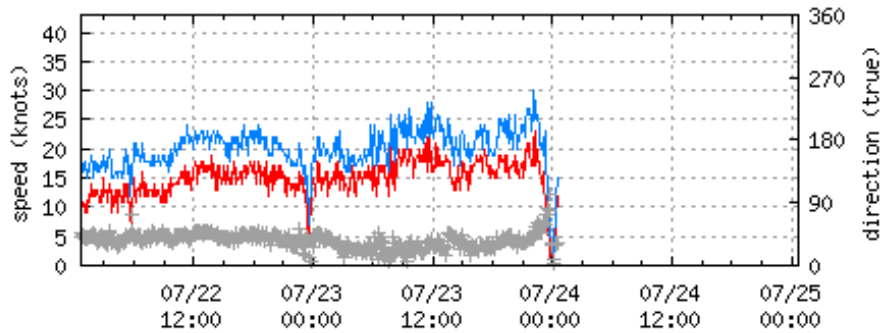
Last Observed Sample: 07/24/2016 00:30 (HST). Data relative to MHHW

Observed: -1.49 ft. Predicted: -1.77 ft. Residual: 0.28 ft.

Historical Maximum Water Level: Dec 20 1968, 1.23 ft.

Next High Tide: 07/24/2016 05:23 (HST), -0.84 ft.

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



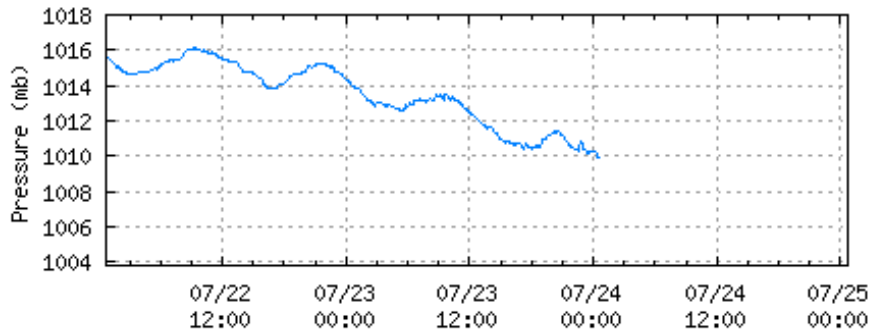
speed ——— gusts ——— direction +

Last Observed Sample: 07/24/2016 00:30 (HST)

Wind Speed: 12 knots Gusts: 15 knots Direction: 31° T

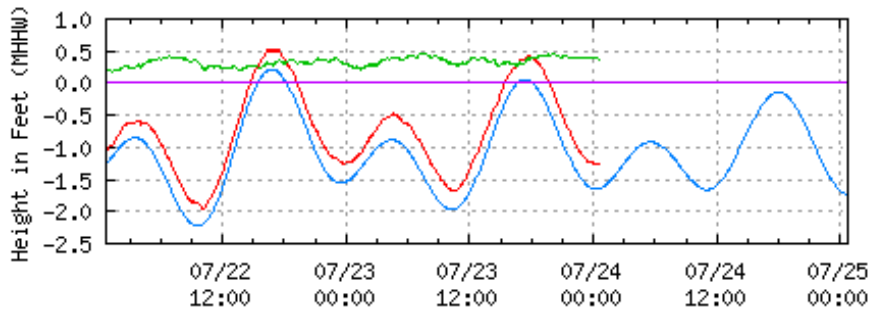


NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI  
Barometric Pressure



barometric pressure —  
Last Observed Sample: 07/24/2016 00:30 (HST)  
Barometric Pressure: 1009.9 mb

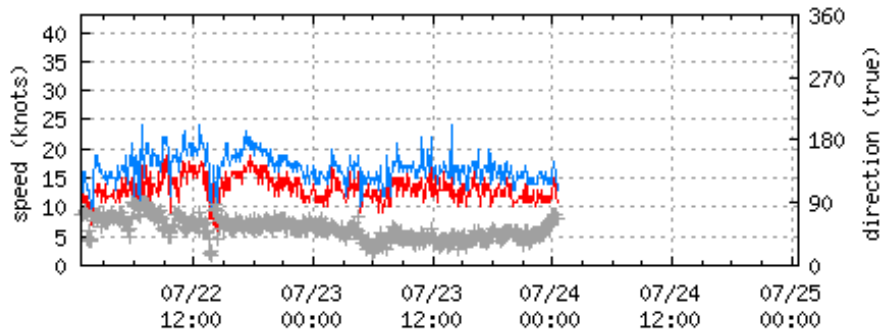
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



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

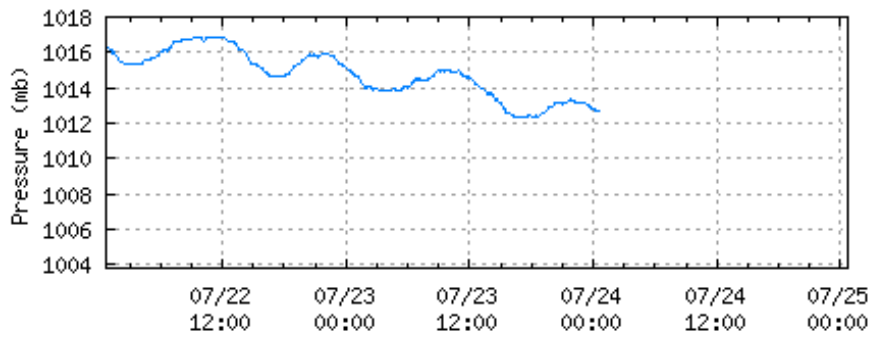
Last Observed Sample: 07/24/2016 00:30 (HST). Data relative to MHHW  
Observed: -1.27 ft. Predicted: -1.64 ft. Residual: 0.37 ft.  
Historical Maximum Water Level: Jan 8 1974, 1.46 ft.  
Next High Tide: 07/24/2016 05:35 (HST), -0.92 ft.

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



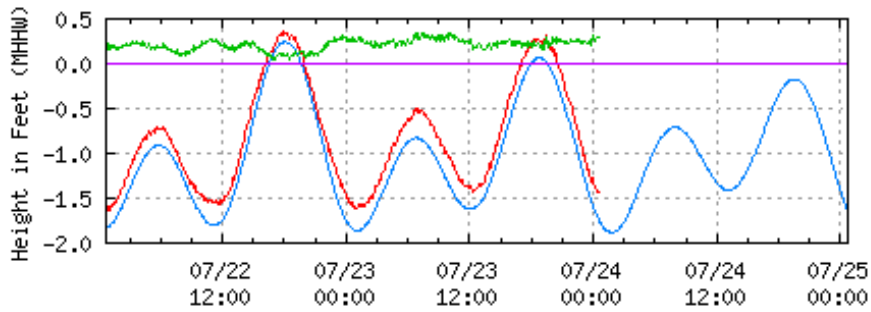
speed — gusts — direction +  
Last Observed Sample: 07/24/2016 00:30 (HST)  
Wind Speed: 11 knots Gusts: 13 knots Direction: 67° T

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI  
Barometric Pressure



barometric pressure —  
Last Observed Sample: 07/24/2016 00:30 (HST)  
Barometric Pressure: 1012.7 mb

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



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

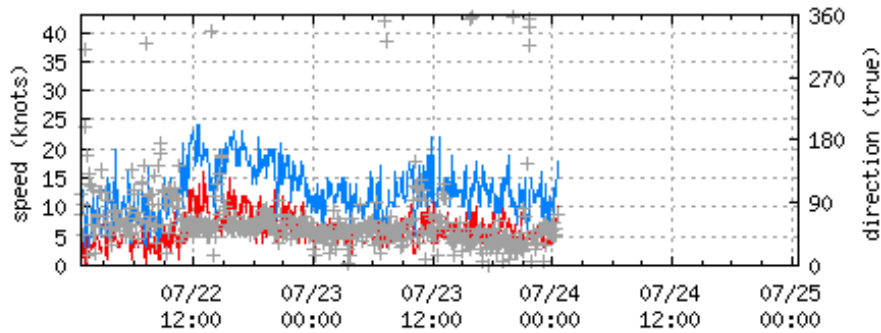
Last Observed Sample: 07/24/2016 00:30 (HST). Data relative to MHHW

Observed: -1.43 ft. Predicted: -1.73 ft. Residual: 0.30 ft.

Historical Maximum Water Level: Feb 14 1967, 1.49 ft.

Next High Tide: 07/24/2016 07:55 (HST), -0.71 ft.

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

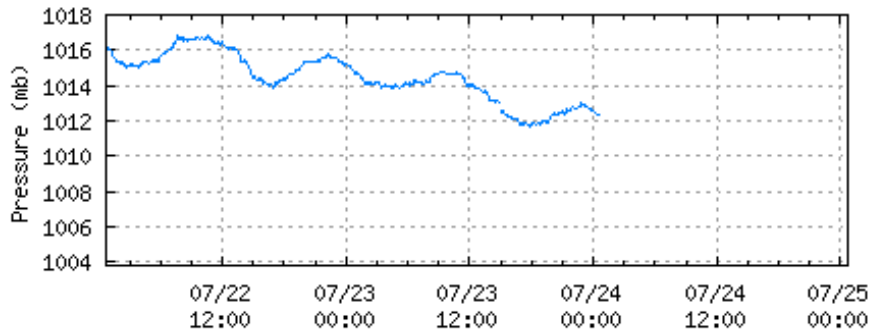


speed ——— gusts ——— direction +

Last Observed Sample: 07/24/2016 00:30 (HST)

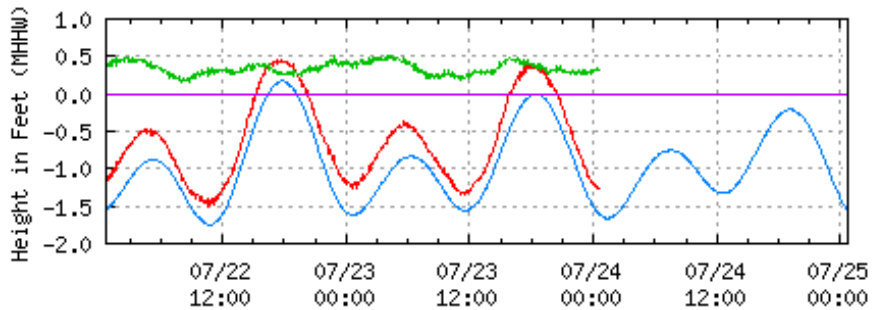
Wind Speed: 10 knots Gusts: 18 knots Direction: 74° T

NOAA/NOS/CO-OPS 1612340 Honolulu, HI  
Barometric Pressure



barometric pressure —  
Last Observed Sample: 07/24/2016 00:30 (HST)  
Barometric Pressure: 1012.3 mb

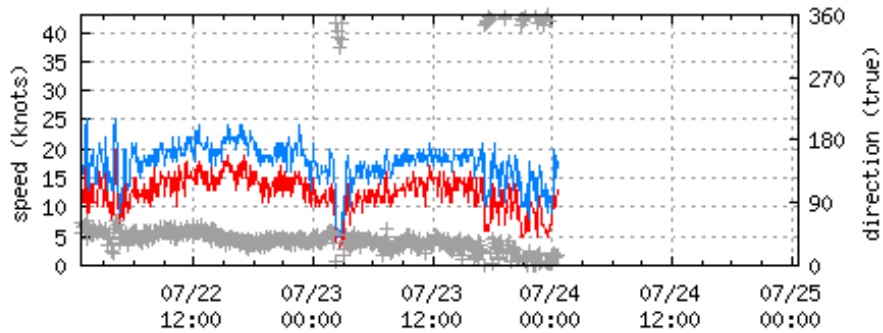
NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



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

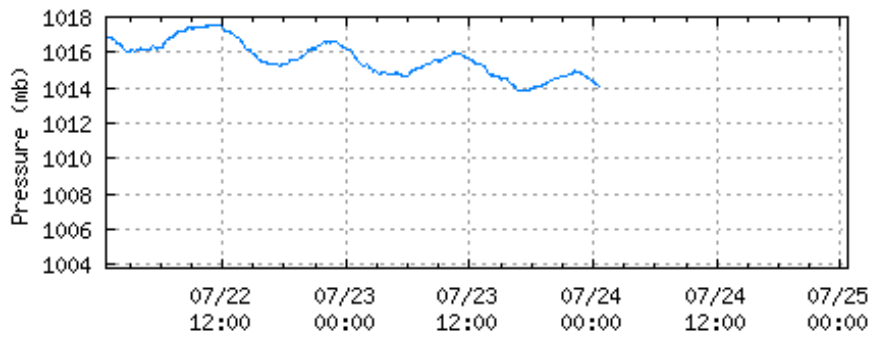
Last Observed Sample: 07/24/2016 00:30 (HST). Data relative to MHHW  
Observed: -1.27 ft. Predicted: -1.60 ft. Residual: 0.33 ft.  
Historical Maximum Water Level: Sep 11 1992, 3.15 ft.  
Next High Tide: 07/24/2016 07:30 (HST), -0.75 ft.

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



speed — gusts — direction +  
Last Observed Sample: 07/24/2016 00:30 (HST)  
Wind Speed: 13 knots Gusts: 18 knots Direction: 15° T

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI  
Barometric Pressure



barometric pressure —  
Last Observed Sample: 07/24/2016 00:30 (HST)  
Barometric Pressure: 1014.1 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	07/24/2016 00:30 (HST)	-2.32 ft	-2.17 ft	-0.15 ft	0.36 ft
1617433	Kawaihae, HI	07/24/2016 00:30 (HST)	-1.80 ft	-2.05 ft	0.25 ft	0.08 ft
1615680	Kahului, Kahului Harbor, HI	07/24/2016 00:30 (HST)	-1.49 ft	-1.77 ft	0.28 ft	0.49 ft
1612480	Mokuoloe, HI	07/24/2016 00:30 (HST)	-1.27 ft	-1.64 ft	0.37 ft	0.42 ft
1612340	Honolulu, HI	07/24/2016 00:30 (HST)	-1.43 ft	-1.73 ft	0.30 ft	0.31 ft
1611400	Nawiliwili, HI	07/24/2016 00:30 (HST)	-1.27 ft	-1.60 ft	0.33 ft	0.41 ft

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