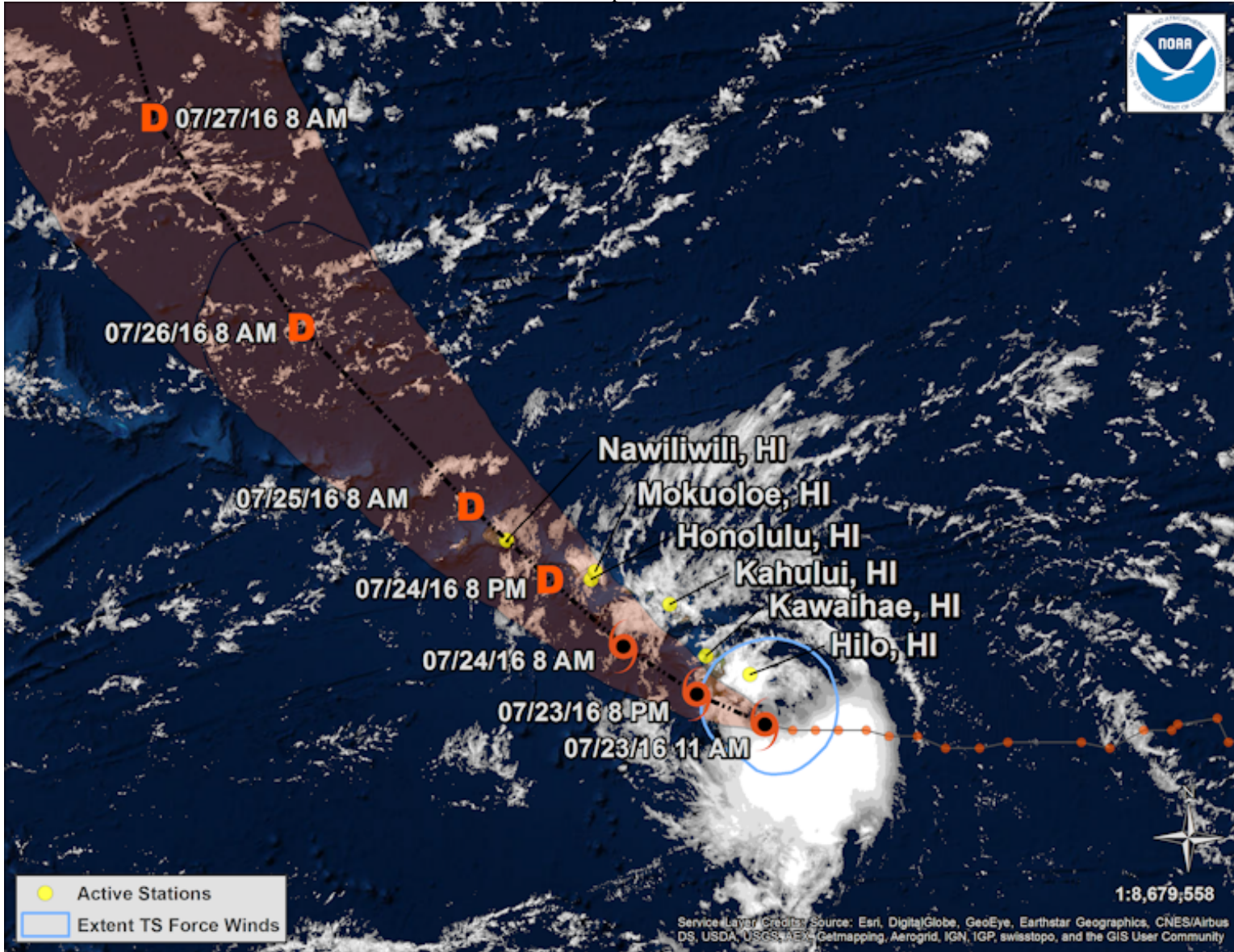




Tropical Storm DARBY QuickLook
Posted: 12:00 HST 07/23/2016

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 07/23/2016 12:00 HST, water levels across the Hawaiian Islands are slightly elevated and range between 0.2 and 0.5 ft above normal tide levels. Winds are slowly increasing and range between 10 and 20 knots with some gusts over 30 knots. Barometric pressure continues to gradually fall across the islands.

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

SELECT CENTRAL PACIFIC HURRICANE CENTER ADVISORY INFORMATION:TROPICAL STORM
DARBY ADVISORY NUMBER 49
NWS CENTRAL PACIFIC HURRICANE CENTER HONOLULU HI EP052016
1100 AM HST SAT JUL 23 2016

...DARBY BRINGING HEAVY RAIN AND GUSTY WINDS TO THE BIG ISLAND...

WATCHES AND WARNINGS

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
- * Oahu

A Tropical Storm Watch is in effect for...

- * Kauai County, including the islands of Kauai and Niihau

A Tropical Storm Warning means that tropical storm conditions are expected within the warning area within 36 hours. In this case, tropical storm conditions are imminent over the Big Island.

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

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 AM HST (2100 UTC), the center of Tropical Storm Darby was located near latitude 18.9 North, longitude 154.8 West or ABOUT 60 MI...95 KM SSE OF HILO HAWAII and ABOUT 260 MI...420 KM SE OF HONOLULU HAWAII. Darby is moving toward the west near 10 mph (17 km/h). A gradual turn toward the northwest is expected Sunday and Monday, with little change in forward speed. On the forecast track, the center of Darby is forecast to pass over the Big Island today, and south of Maui County early Sunday. The center of Darby is expected to pass close to Oahu and Kauai County late Sunday and Monday.

Maximum sustained winds are near 45 mph (75 km/h) with higher gusts. Some weakening is forecast during the next

48 hours.

Tropical-storm-force winds extend outward up to 105 miles (165 km) from the center. A wind gust to 54 mph was measured in Hawaii Volcanoes National Park earlier this morning.

The estimated minimum central pressure is 1002 mb (29.59 inches).

HAZARDS AFFECTING LAND

WIND: Tropical storm force winds are expected over the Big Island today, over portions of Maui County tonight and over Oahu Sunday. Tropical storm force winds are possible over Kauai Monday.

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 possible isolated maximum amounts of 20 inches. These rains could produce life-threatening flash floods and landslides.

NEXT ADVISORY

Next intermediate advisory at 200 PM HST.

Next complete advisory at 500 PM HST.

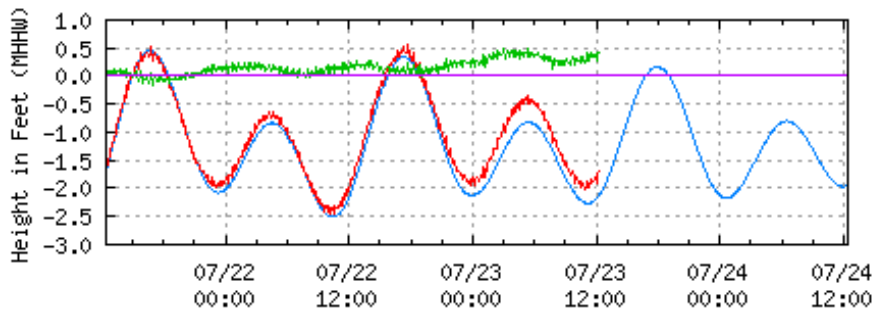
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Forecaster Birchard

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

Last Observed Sample: 07/23/2016 12:12 (HST). Data relative to MHHW

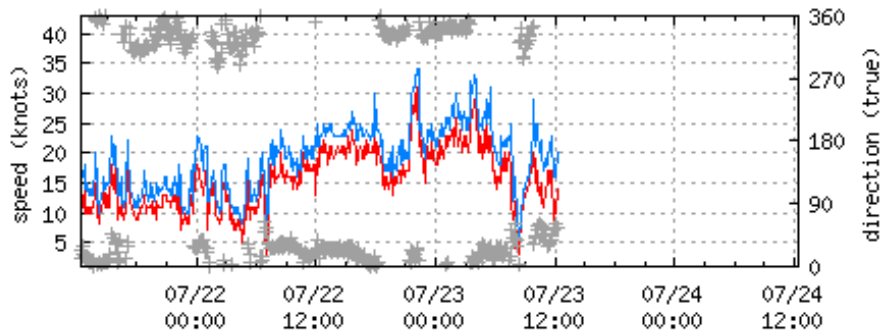
Observed: -1.70 ft. Predicted: -2.13 ft. Residual: 0.43 ft.

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

Next High Tide: 07/23/2016 17:55 (HST), 0.16 ft.

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

Wind Speed / Gusts / Direction

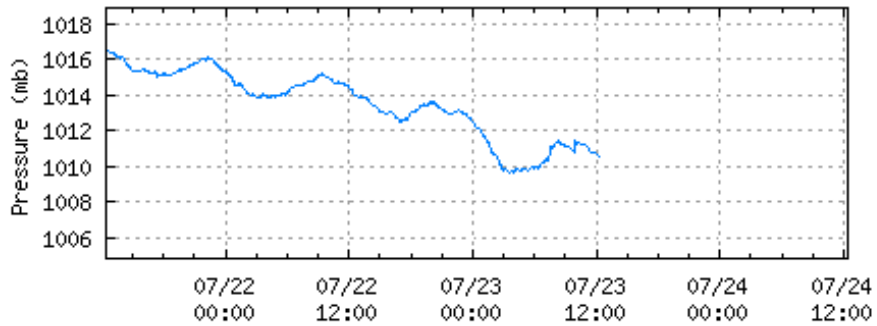


speed ——— gusts ——— direction +

Last Observed Sample: 07/23/2016 12:12 (HST)

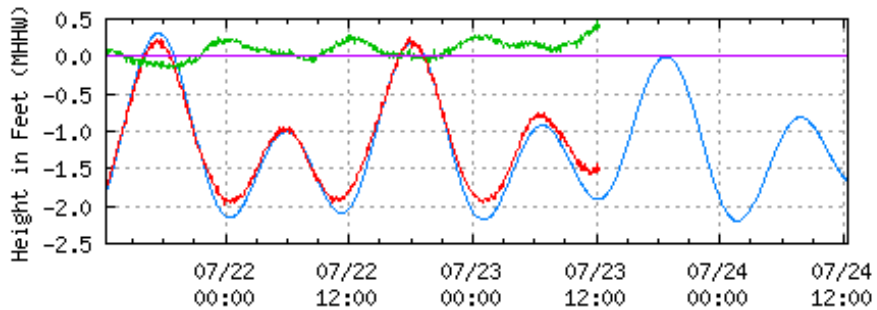
Wind Speed: 14 knots Gusts: 20 knots Direction: 56° T

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



barometric pressure —
Last Observed Sample: 07/23/2016 12:12 (HST)
Barometric Pressure: 1010.5 mb

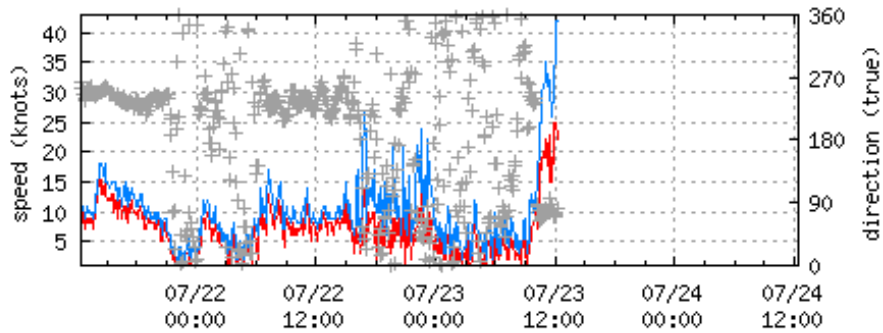
NOAA/NOS/CO-OPS 1617433 Kawaihae, HI
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



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

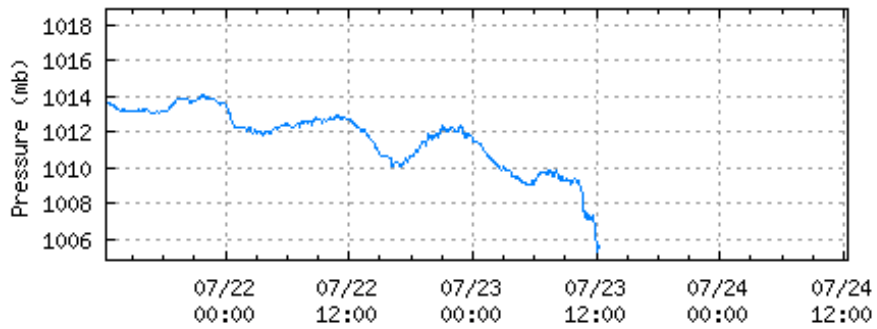
Last Observed Sample: 07/23/2016 12:12 (HST). Data relative to MHHW
Observed: -1.53 ft. Predicted: -1.91 ft. Residual: 0.38 ft.
Historical Maximum Water Level: Dec 13 2008, 1.22 ft.
Next High Tide: 07/23/2016 18:46 (HST), -0.01 ft.

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



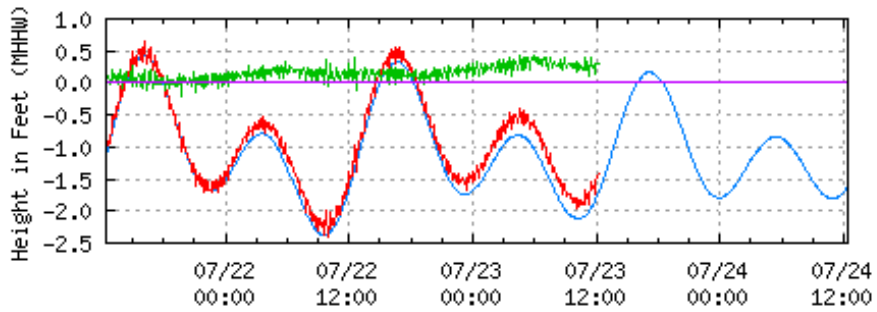
speed — gusts — direction +
Last Observed Sample: 07/23/2016 12:12 (HST)
Wind Speed: 22 knots Gusts: 42 knots Direction: 81° T

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



barometric pressure —
Last Observed Sample: 07/23/2016 12:12 (HST)
Barometric Pressure: 1005.6 mb

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

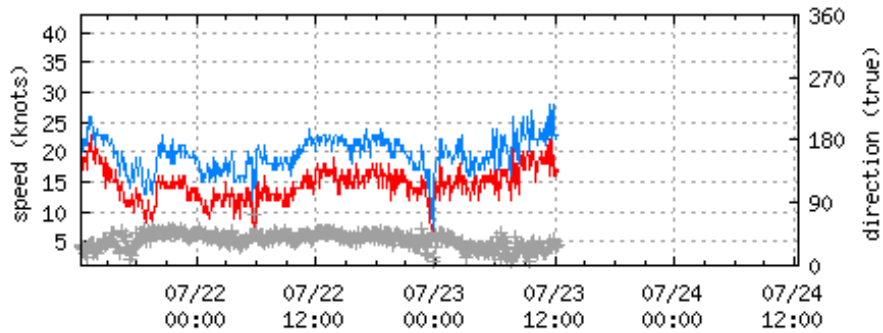
Last Observed Sample: 07/23/2016 12:12 (HST). Data relative to MHHW

Observed: -1.41 ft. Predicted: -1.71 ft. Residual: 0.30 ft.

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

Next High Tide: 07/23/2016 17:11 (HST), 0.16 ft.

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

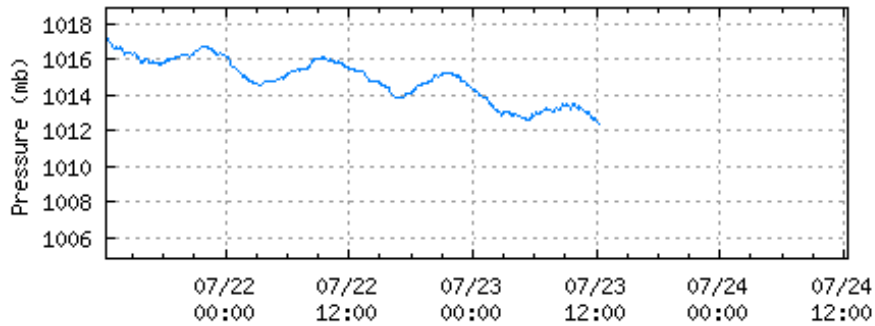


speed ——— (red line) gusts ——— (blue line) direction +

Last Observed Sample: 07/23/2016 12:12 (HST)

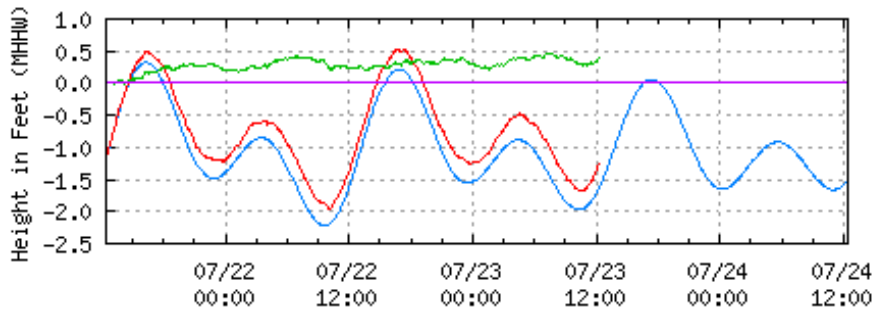
Wind Speed: 17 knots Gusts: 23 knots Direction: 30° T

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



barometric pressure —
Last Observed Sample: 07/23/2016 12:12 (HST)
Barometric Pressure: 1012.4 mb

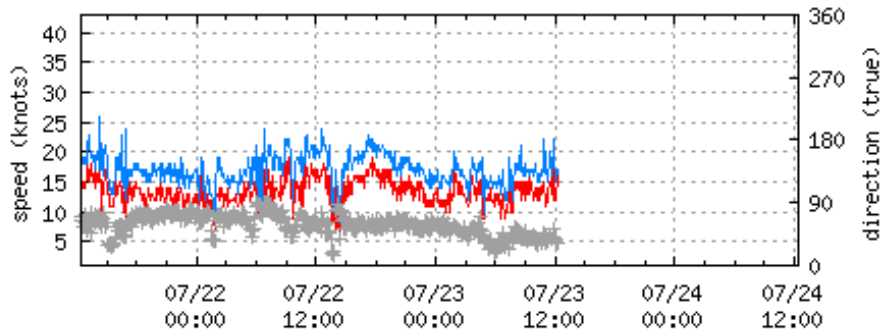
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



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

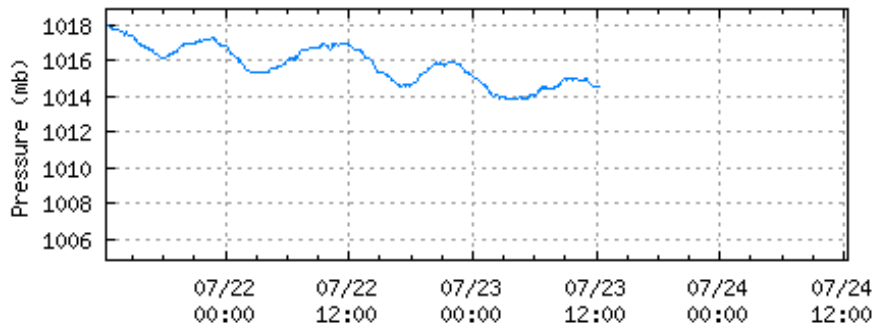
Last Observed Sample: 07/23/2016 12:12 (HST). Data relative to MHHW
Observed: -1.26 ft. Predicted: -1.64 ft. Residual: 0.38 ft.
Historical Maximum Water Level: Jan 8 1974, 1.46 ft.
Next High Tide: 07/23/2016 17:22 (HST), 0.05 ft.

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



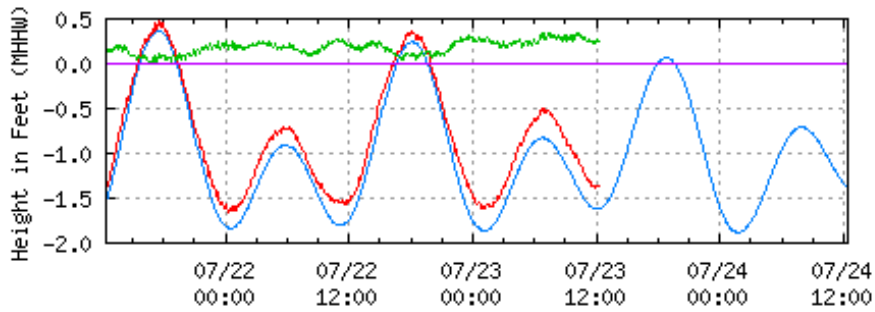
speed — gusts — direction +
Last Observed Sample: 07/23/2016 12:12 (HST)
Wind Speed: 16 knots Gusts: 17 knots Direction: 31° T

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



barometric pressure —
Last Observed Sample: 07/23/2016 12:12 (HST)
Barometric Pressure: 1014.5 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 ———

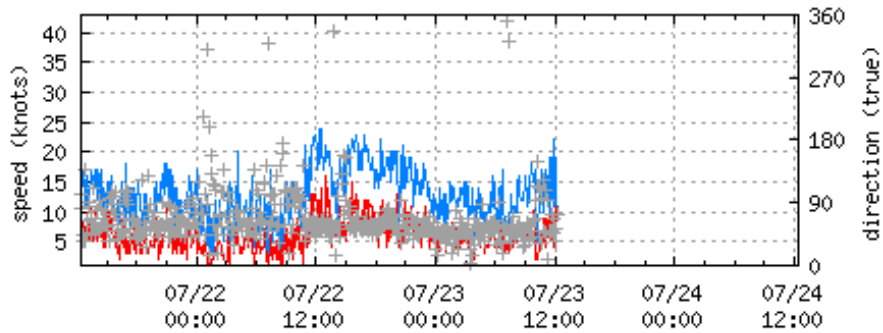
Last Observed Sample: 07/23/2016 12:12 (HST). Data relative to MHHW

Observed: -1.37 ft. Predicted: -1.62 ft. Residual: 0.25 ft.

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

Next High Tide: 07/23/2016 18:46 (HST), 0.06 ft.

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

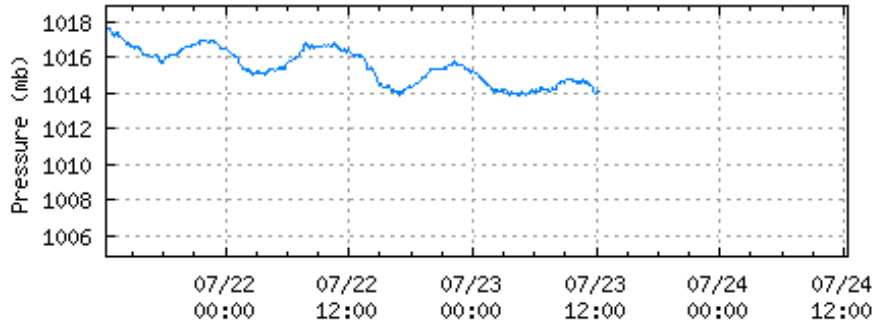


speed ——— gusts ——— direction +

Last Observed Sample: 07/23/2016 12:12 (HST)

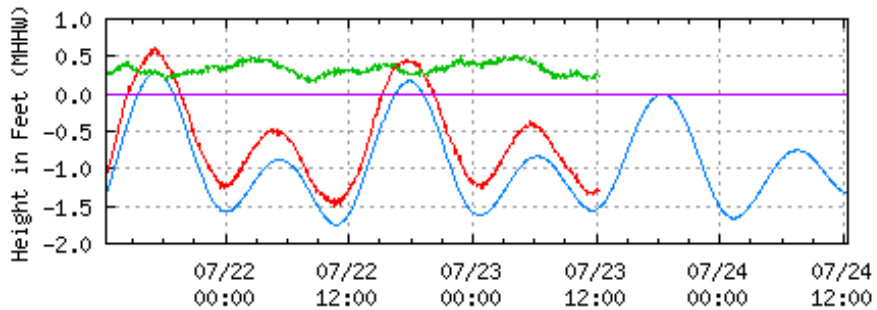
Wind Speed: 5 knots Gusts: 9 knots Direction: 73° T

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



barometric pressure —
Last Observed Sample: 07/23/2016 12:12 (HST)
Barometric Pressure: 1014.1 mb

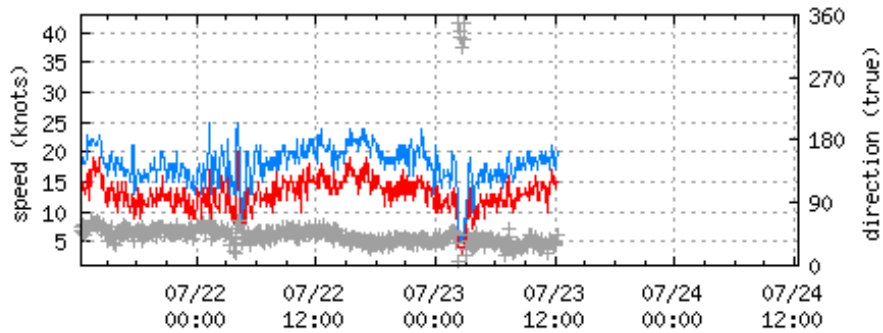
NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



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

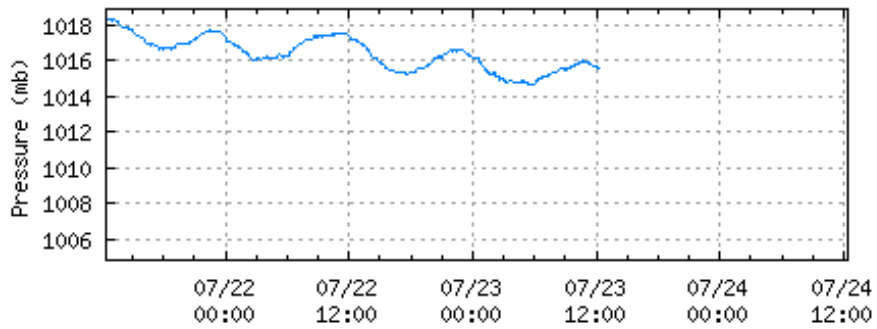
Last Observed Sample: 07/23/2016 12:12 (HST). Data relative to MHHW
Observed: -1.28 ft. Predicted: -1.52 ft. Residual: 0.24 ft.
Historical Maximum Water Level: Sep 11 1992, 3.15 ft.
Next High Tide: 07/23/2016 18:27 (HST), -0.00 ft.

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



speed — gusts — direction +
Last Observed Sample: 07/23/2016 12:12 (HST)
Wind Speed: 15 knots Gusts: 20 knots Direction: 43° T

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



barometric pressure —

Last Observed Sample: 07/23/2016 12:12 (HST)
Barometric Pressure: 1015.6 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	07/23/2016 12:12 (HST)	-1.70 ft	-2.13 ft	0.43 ft	0.55 ft
1617433	Kawaihae, HI	07/23/2016 12:12 (HST)	-1.53 ft	-1.91 ft	0.38 ft	0.25 ft
1615680	Kahului, Kahului Harbor, HI	07/23/2016 12:12 (HST)	-1.41 ft	-1.71 ft	0.30 ft	0.56 ft
1612480	Mokuoloe, HI	07/23/2016 12:12 (HST)	-1.26 ft	-1.64 ft	0.38 ft	0.52 ft
1612340	Honolulu, HI	07/23/2016 12:12 (HST)	-1.37 ft	-1.62 ft	0.25 ft	0.36 ft
1611400	Nawiliwili, HI	07/23/2016 12:12 (HST)	-1.28 ft	-1.52 ft	0.24 ft	0.45 ft

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