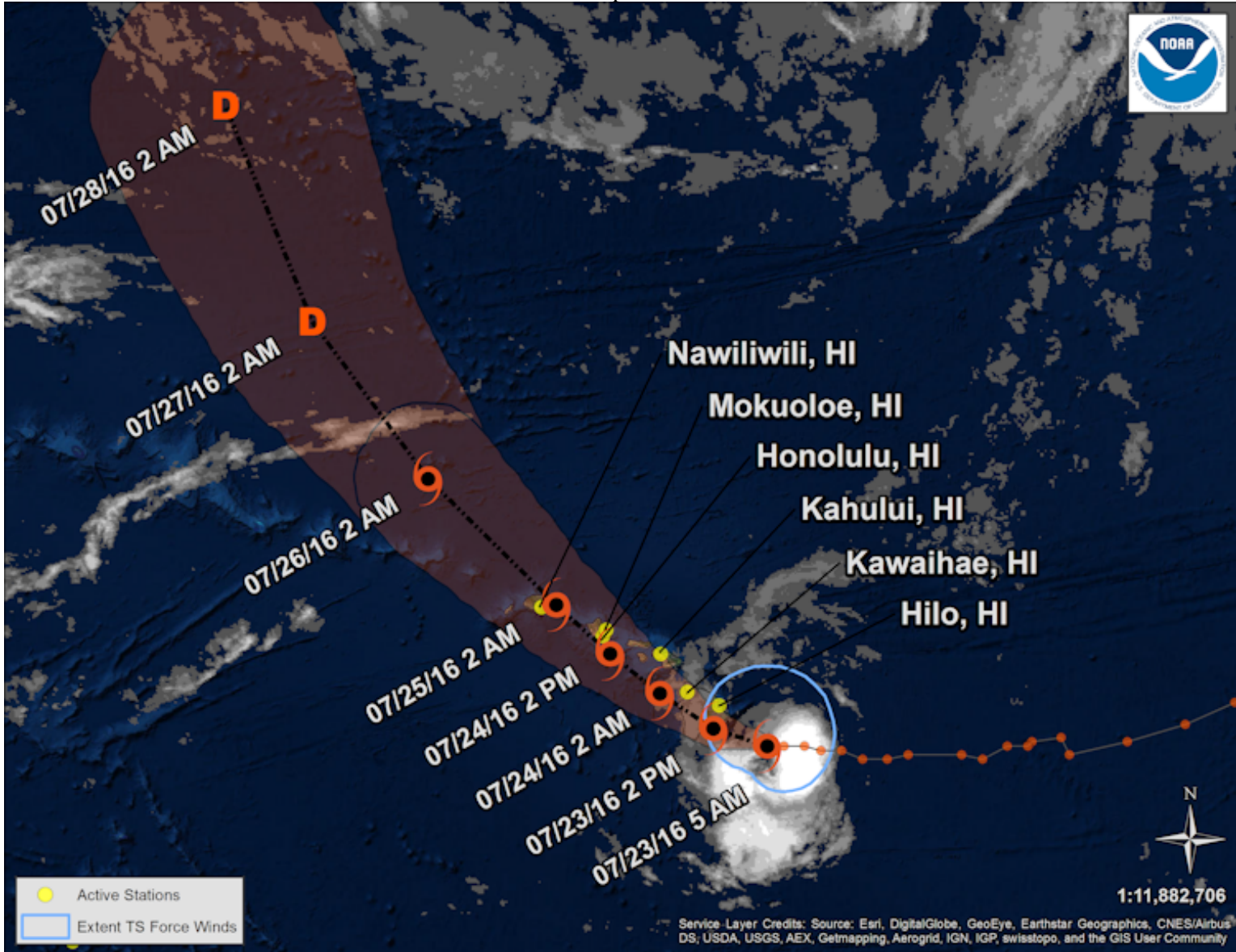




Tropical Storm DARBY QuickLook
Posted: 06:00 HST 07/23/2016

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 07/23/2016 06:00 HST, water levels across the Hawaiian Islands are close to or slightly above predictions and range between 0.2 and 0.5 ft above normal tide levels. Winds are gradually increasing at the eastern Hawaiian stations with the latest observed gusts measuring between 10 and 30 knots. Barometric pressure continues to fall across the area as Darby approaches the Big Island.

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: AJC

TROPICAL STORM DARBY ADVISORY NUMBER 48

NWS CENTRAL PACIFIC HURRICANE CENTER HONOLULU HI

500 AM HST SAT JUL 23 2016

...DARBY THREATENING THE BIG ISLAND...

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

A Tropical Storm Warning has been issued for Oahu.

A Tropical Storm Watch has been issued for Kauai.

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

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 today.

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 AM HST, the center of Tropical Storm Darby was located about 100 MI SE of Hilo, Hawaii. Darby is moving toward the west near 9 mph. Darby's forward motion is expected to slow slightly today followed by a turn toward the northwest tonight and Sunday. On the forecast track, the center of Darby is forecast to pass over the Big Island today and Maui tonight. Darby will approach Oahu on Sunday and Kauai Monday.

Maximum sustained winds are near 50 mph with higher gusts.

Some weakening is forecast during the next 48 hours.

Tropical-storm-force winds extend outward up to 125 miles from the center.

The estimated minimum central pressure is 1002 mb.

HAZARDS AFFECTING LAND

WIND: Tropical storm force winds are expected over the Big Island starting this morning, over portions of Maui County this afternoon and evening, 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 locally higher amounts...could cause life-threatening flash floods as well as landslides.

NEXT ADVISORY

Next intermediate advisory at 800 AM HST.

Next complete advisory at 1100 AM HST.

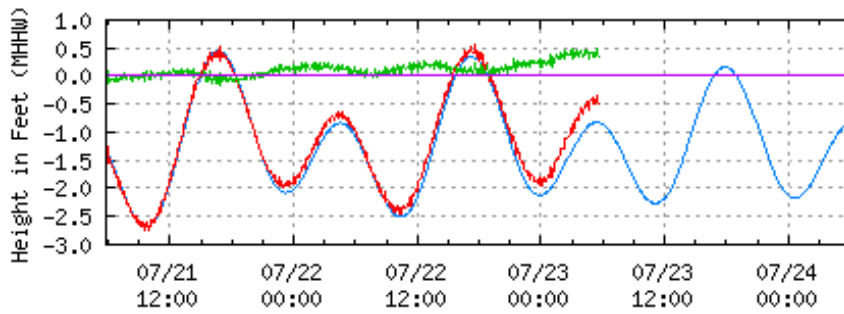
Forecaster Powell

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 ———

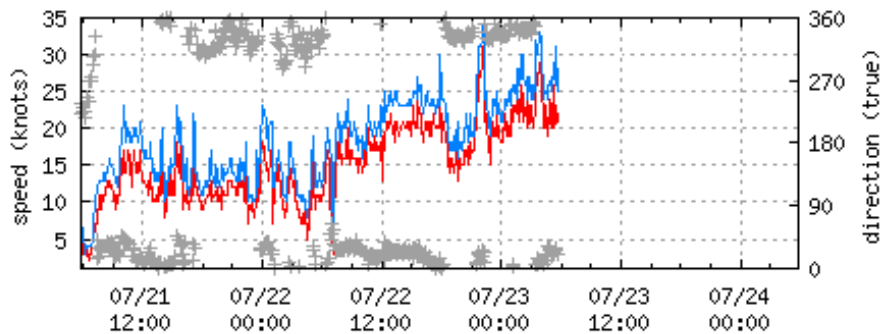
Last Observed Sample: 07/23/2016 05:42 (HST). Data relative to MHHW

Observed: -0.44 ft. Predicted: -0.83 ft. Residual: 0.39 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

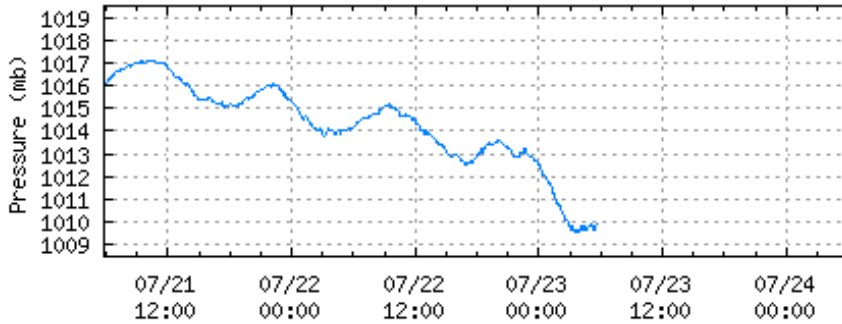


speed ——— red ——— gusts ——— blue ——— direction +

Last Observed Sample: 07/23/2016 05:42 (HST)

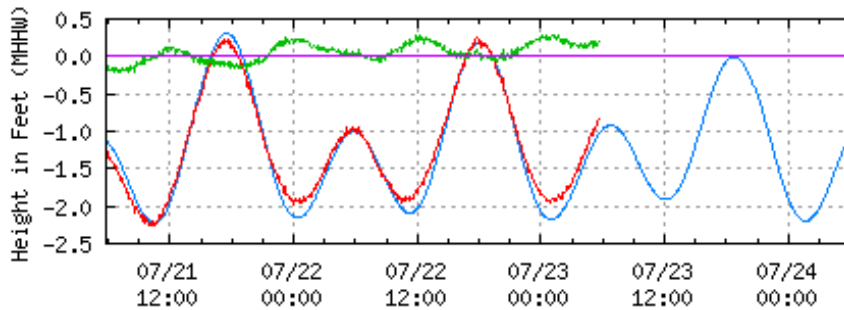
Wind Speed: 19 knots Gusts: 22 knots Direction: 14° T

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



barometric pressure —
Last Observed Sample: 07/23/2016 05:42 (HST)
Barometric Pressure: 1010.0 mb

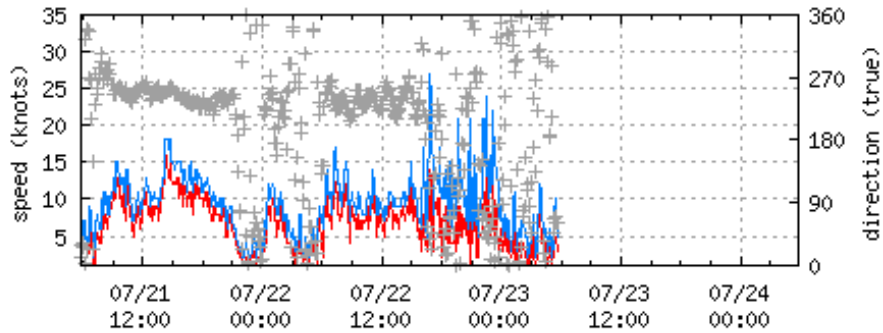
NOAA/NOS/CO-OPS 1617433 Kawaihae, HI
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



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

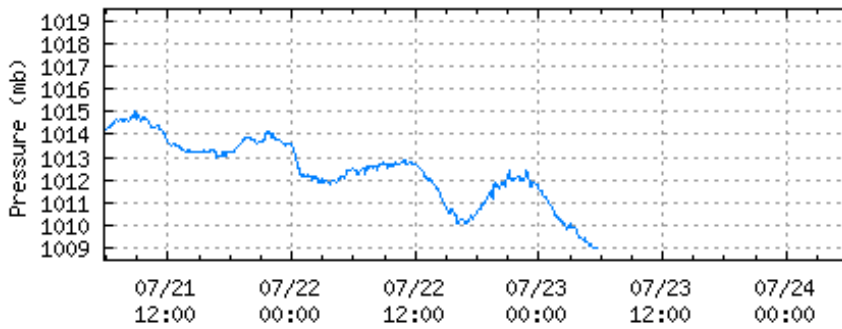
Last Observed Sample: 07/23/2016 05:42 (HST). Data relative to MHHW
Observed: -0.85 ft. Predicted: -1.02 ft. Residual: 0.17 ft.
Historical Maximum Water Level: Dec 13 2008, 1.22 ft.
Next High Tide: 07/23/2016 06:47 (HST), -0.92 ft.

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



speed — gusts — direction +
Last Observed Sample: 07/23/2016 05:42 (HST)
Wind Speed: 1 knots Gusts: 3 knots Direction: 198° T

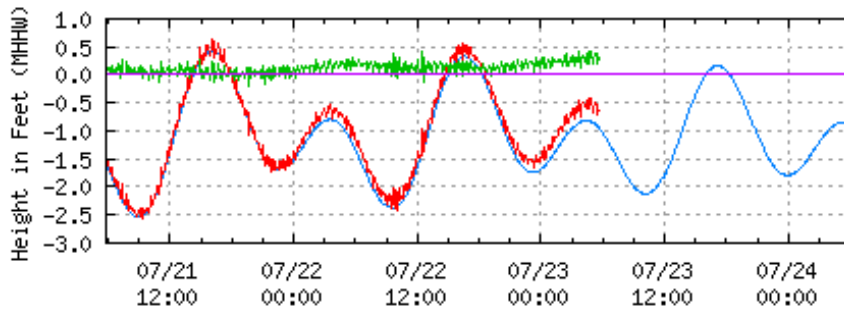
NOAA/NOS/CO-OPS 1617433 Kawaihae, HI
Barometric Pressure



barometric pressure —

Last Observed Sample: 07/23/2016 05:42 (HST)
Barometric Pressure: 1009.0 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)

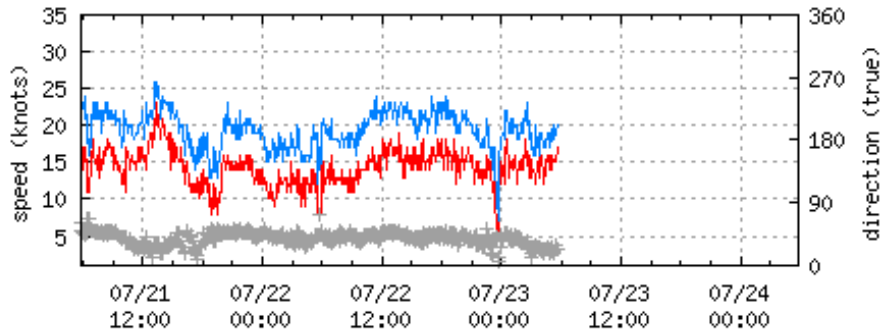
Last Observed Sample: 07/23/2016 05:36 (HST). Data relative to MHHW

Observed: -0.62 ft. Predicted: -0.94 ft. Residual: 0.32 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

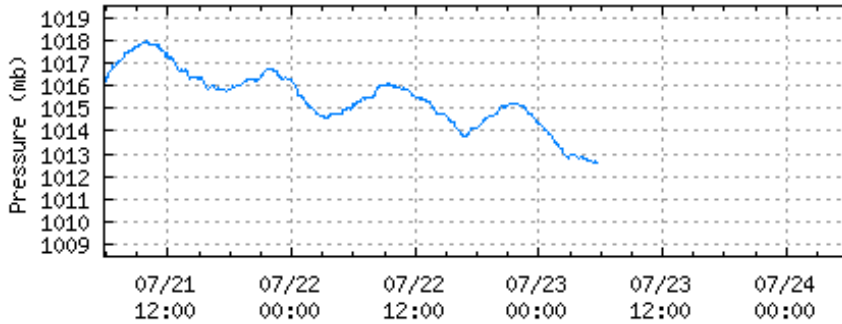


speed ——— (red line) gusts ——— (blue line) direction + (grey line)

Last Observed Sample: 07/23/2016 05:36 (HST)

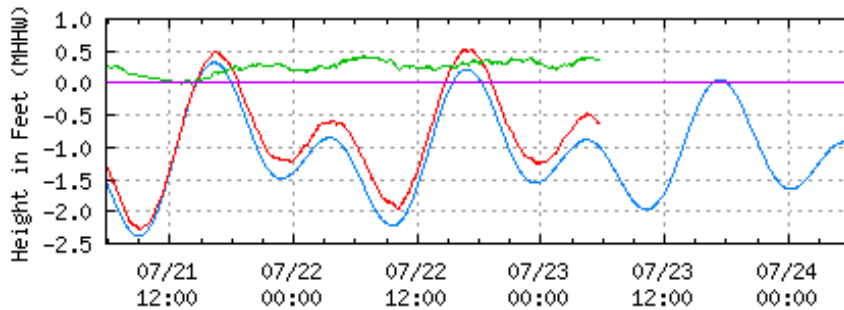
Wind Speed: 17 knots Gusts: 20 knots Direction: 24° T

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



barometric pressure —
 Last Observed Sample: 07/23/2016 05:36 (HST)
 Barometric Pressure: 1012.6 mb

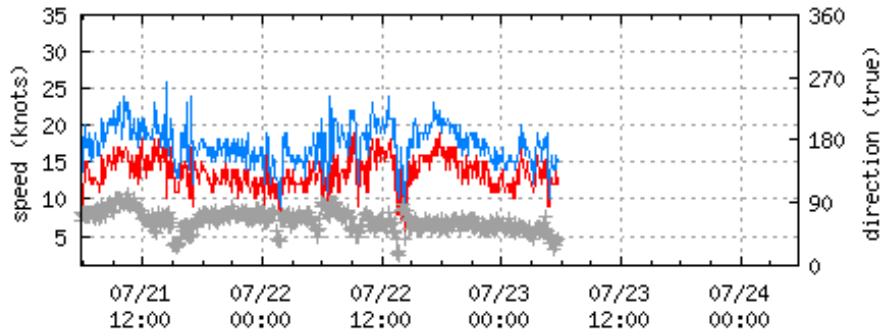
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI
 Preliminary Water Level, relative to Mean Higher High Water (MHHW)



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

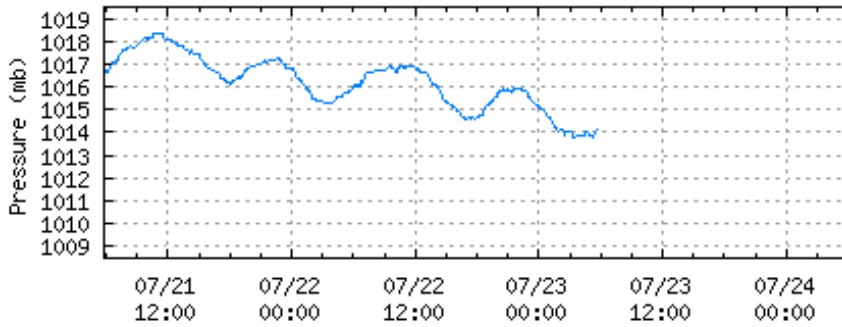
Last Observed Sample: 07/23/2016 05:42 (HST). Data relative to MHHW
 Observed: -0.61 ft. Predicted: -1.00 ft. Residual: 0.39 ft.
 Historical Maximum Water Level: Jan 8 1974, 1.46 ft.
 Next High Tide: 07/23/2016 17:22 (HST), 0.05 ft.

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



speed — gusts — direction +
Last Observed Sample: 07/23/2016 05:42 (HST)
Wind Speed: 12 knots Gusts: 15 knots Direction: 29° T

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



barometric pressure —

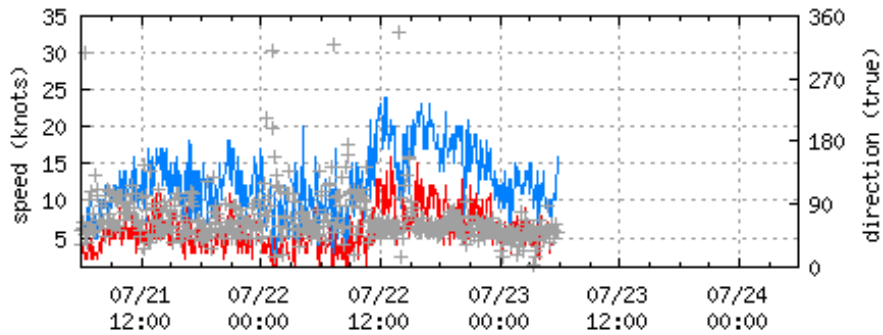
Last Observed Sample: 07/23/2016 05:42 (HST)
Barometric Pressure: 1014.1 mb

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

This data type is not currently available from this station.

Last Observed Sample: 07/23/2016 05:42 (HST). Data relative to MHHW
Observed: -0.69 ft. Predicted: -0.91 ft. Residual: 0.22 ft.
 Historical Maximum Water Level: Feb 14 1967, 1.49 ft.
 Next High Tide: 07/23/2016 06:48 (HST), -0.83 ft.

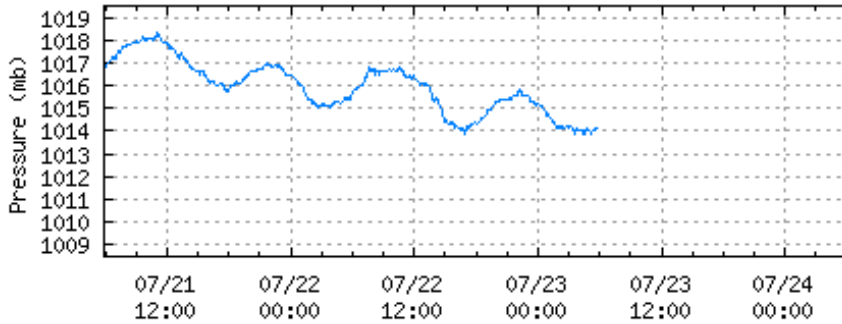
NOAA/NOS/CO-OPS 1612340 Honolulu, HI
 Wind Speed / Gusts / Direction



speed — red gusts — blue direction +

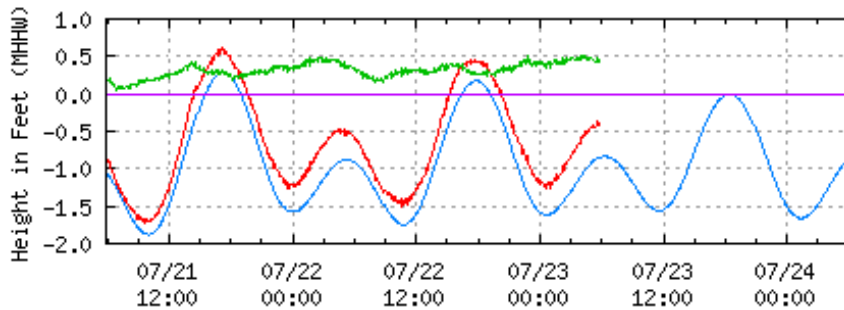
Last Observed Sample: 07/23/2016 05:42 (HST)
Wind Speed: 6 knots Gusts: 16 knots Direction: 51° T

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



barometric pressure —
Last Observed Sample: 07/23/2016 05:42 (HST)
Barometric Pressure: 1014.1 mb

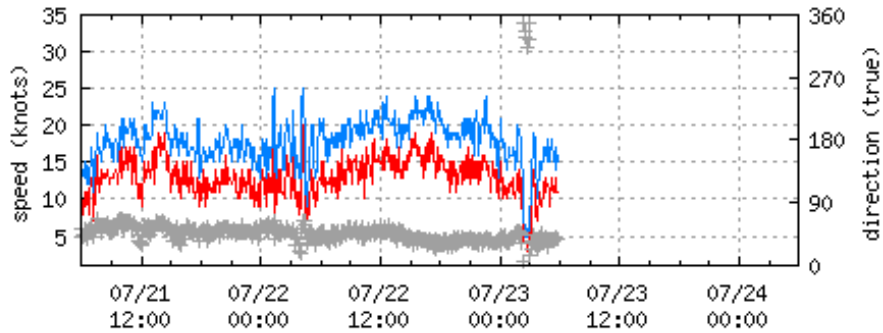
NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



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

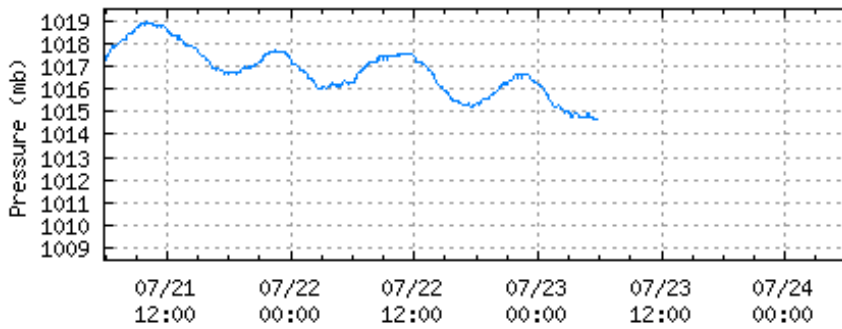
Last Observed Sample: 07/23/2016 05:42 (HST). Data relative to MHHW
Observed: -0.43 ft. Predicted: -0.85 ft. Residual: 0.42 ft.
Historical Maximum Water Level: Sep 11 1992, 3.15 ft.
Next High Tide: 07/23/2016 06:17 (HST), -0.83 ft.

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



speed — gusts — direction +
Last Observed Sample: 07/23/2016 05:42 (HST)
Wind Speed: 11 knots Gusts: 16 knots Direction: 37° T

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



barometric pressure —
Last Observed Sample: 07/23/2016 05:42 (HST)
Barometric Pressure: 1014.7 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 05:42 (HST)	-0.44 ft	-0.83 ft	0.39 ft	0.55 ft
1617433	Kawaihae, HI	07/23/2016 05:42 (HST)	-0.85 ft	-1.02 ft	0.17 ft	0.25 ft
1615680	Kahului, Kahului Harbor, HI	07/23/2016 05:36 (HST)	-0.62 ft	-0.94 ft	0.32 ft	0.56 ft
1612480	Mokuoloe, HI	07/23/2016 05:42 (HST)	-0.61 ft	-1.00 ft	0.39 ft	0.52 ft
1612340	Honolulu, HI	07/23/2016 05:42 (HST)	-0.69 ft	-0.91 ft	0.22 ft	0.36 ft
1611400	Nawiliwili, HI	07/23/2016 05:42 (HST)	-0.43 ft	-0.85 ft	0.42 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