Storm Analysis
As 07/22/2016 12:00 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 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: ADM

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SELECT CENTRAL PACIFIC HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL STORM DARBY ADVISORY NUMBER 45
NWS CENTRAL PACIFIC HURRICANE CENTER HONOLULU HI   EP052016
1100 AM HST FRI JUL 22 2016

...DARBY MAINTAINING ITS STRENGTH AS IT HEADS TOWARD THE BIG ISLAND...

WATCHES AND WARNINGS
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CHANGES WITH THIS ADVISORY:

A Tropical Storm Warning has been issued for Maui County.

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 warning means that tropical storm conditions are expected within the warning area within 36 hours.

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

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
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At 1100 AM HST, the center of Tropical Storm Darby was located ABOUT 280 MI ESE OF HILO HAWAII and ABOUT 490 MI ESE OF HONOLULU HAWAII. Darby is moving toward the west near 12 mph. Darby's forward motion is expected to slow slightly Saturday followed by a turn toward the northwest on 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 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 999 mb.

HAZARDS AFFECTING LAND
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WIND: Tropical-storm-force winds are expected over the Big Island starting late tonight, and are possible over portions of Maui County on Saturday.

SURF: Swells generated by Darby are expected to impact the Hawaiian Islands over the next couple of days, possibly becoming damaging along some coastlines today and Saturday.

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

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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.

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

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

Last Observed Sample: 07/22/2016 11:18 (HST). Data relative to MHHW


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

Next High Tide: 07/22/2016 17:17 (HST), 0.34 ft.

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

**Wind Speed / Gusts / Direction**

Last Observed Sample: 07/22/2016 11:18 (HST)

Wind Speed: 17 knots Gusts: 20 knots Direction: 16° T
NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI

Barometric Pressure

Barometric Pressure: 1014.7 mb

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI

Last Observed Sample: 07/22/2016 11:18 (HST)

Data relative to MHHW

Observed: -1.87 ft. Predicted: -2.09 ft. Residual: 0.22 ft.

Historical Maximum Water Level: Dec 13 2008, 1.22 ft.

Next High Tide: 07/22/2016 18:06 (HST), 0.18 ft.
Last Observed Sample: 07/22/2016 11:18 (HST)
Wind Speed: 9 knots Gusts: 11 knots Direction: 244° T

Last Observed Sample: 07/22/2016 11:18 (HST)
Barometric Pressure: 1012.7 mb
NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI

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

Last Observed Sample: 07/22/2016 11:18 (HST). Data relative to MHHW

Observed: -1.84 ft. Predicted: -2.00 ft. Residual: 0.16 ft.

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

Next High Tide: 07/22/2016 16:37 (HST), 0.33 ft.

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

Wind Speed / Gusts / Direction

Last Observed Sample: 07/22/2016 11:18 (HST)

Wind Speed: 16 knots Gusts: 23 knots Direction: 41° T
NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI

Last Observed Sample: 07/22/2016 11:18 (HST)

Barometric Pressure: 1015.8 mb

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI

Last Observed Sample: 07/22/2016 11:18 (HST). Data relative to MHHW

Observed: -1.65 ft. Predicted: -1.91 ft. Residual: 0.26 ft.

Historical Maximum Water Level: Jan 8 1974, 1.46 ft.

Next High Tide: 07/22/2016 16:49 (HST), 0.21 ft.
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI

Last Observed Sample: 07/22/2016 11:18 (HST)
Wind Speed: 16 knots  Gusts: 20 knots  Direction: 49° T

NOAA/NOS/CO-OPS 1612340 Honolulu, HI

Last Observed Sample: 07/22/2016 11:18 (HST)
Data relative to MHHW
Observed: -1.53 ft.  Predicted: -1.80 ft.  Residual: 0.27 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

<table>
<thead>
<tr>
<th>Speed (knots)</th>
<th>Gusts (knots)</th>
<th>Direction</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>19</td>
<td>67° T</td>
</tr>
<tr>
<td>10</td>
<td>19</td>
<td>67° T</td>
</tr>
<tr>
<td>15</td>
<td>19</td>
<td>67° T</td>
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<tr>
<td>20</td>
<td>19</td>
<td>67° T</td>
</tr>
<tr>
<td>25</td>
<td>19</td>
<td>67° T</td>
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</table>

Last Observed Sample: 07/22/2016 11:18 (HST)
Wind Speed: 5 knots Gusts: 19 knots Direction: 67° T

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI

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

<table>
<thead>
<tr>
<th>Height in Feet (MHHW)</th>
<th>Predicted Tide</th>
<th>Observed WL</th>
<th>(Obs-Pred)</th>
<th>MHHW</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
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<tr>
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</tr>
<tr>
<td>-1.5</td>
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<tr>
<td>-2.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Last Observed Sample: 07/22/2016 11:24 (HST). Data relative to MHHW
Observed: -1.38 ft. Predicted: -1.70 ft. Residual: 0.32 ft.
Historical Maximum Water Level: Sep 11 1992, 3.15 ft.
Next High Tide: 07/22/2016 17:50 (HST), 0.17 ft.
Wind Speed / Gusts / Direction

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI

Last Observed Sample: 07/22/2016 11:24 (HST)

Wind Speed: 18 knots  Gusts: 22 knots  Direction: 56° T
<table>
<thead>
<tr>
<th>Station ID</th>
<th>Station Name</th>
<th>Date/Time</th>
<th>Observed Water Level</th>
<th>Predicted Tide</th>
<th>Residual Water Level</th>
<th>24 Hour Maximum Storm Tide</th>
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<tbody>
<tr>
<td>1617760</td>
<td>Hilo, Hilo Bay, Kuhio Bay, HI</td>
<td>07/22/2016 11:18 (HST)</td>
<td>-2.15 ft</td>
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<td>-2.09 ft</td>
<td>0.22 ft</td>
<td>0.23 ft</td>
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<tr>
<td>1615680</td>
<td>Kahului, Kahului Harbor, HI</td>
<td>07/22/2016 11:18 (HST)</td>
<td>-1.84 ft</td>
<td>-2.00 ft</td>
<td>0.16 ft</td>
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<td>1612480</td>
<td>Mokuoloe, HI</td>
<td>07/22/2016 11:18 (HST)</td>
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<td>0.26 ft</td>
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<td>07/22/2016 11:18 (HST)</td>
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<td>0.49 ft</td>
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<tr>
<td>1611400</td>
<td>Nawiliwili, HI</td>
<td>07/22/2016 11:24 (HST)</td>
<td>-1.38 ft</td>
<td>-1.70 ft</td>
<td>0.32 ft</td>
<td>0.61 ft</td>
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