Storm Analysis

As of 9/10/2018 06:00 HST, water levels across the Hawaiian Islands are slightly elevated by up to 0.75 feet above normal tide levels. Winds at this time are weak and variable and barometric pressure is generally steady.

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 real-time and historical inundation information for select stations affected by this storm, please visit Coastal Inundation Dashboard. For additional data, please see the Center for Operational Oceanographic Products & Services website.

For more information or archived products and reports, please visit the Storm QuickLook Homepage.

Analyst: PFF

Select Central Pacific Hurricane Center Advisory Information:

BULLETIN
Hurricane Olivia Advisory Number 40
NWS Central Pacific Hurricane Center Honolulu HI EP172018
500 AM HST Mon Sep 10 2018

...HURRICANE OLIVIA STILL MOVING TOWARD HAWAI...TROPICAL STORM WARNINGS HAVE BEEN ISSUED FOR MAUI COUNTY AND THE BIG ISLAND...

SUMMARY OF 500 AM HST...1500 UTC...INFORMATION
---------------------------------------------------------------
LOCATION...21.7N 148.0W
ABOUT 480 MI...770 KM ENE OF HILO HAWAII
ABOUT 635 MI...1025 KM E OF HONOLULU HAWAII
MAXIMUM SUSTAINED WINDS...85 MPH...140 KM/H
PRESENT MOVEMENT...W OR 270 DEGREES AT 10 MPH...17 KM/H
MINIMUM CENTRAL PRESSURE...980 MB...28.94 INCHES

WATCHES AND WARNINGS
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CHANGES WITH THIS ADVISORY:

A Tropical Storm Warning has been issued for...
* Maui County...including the islands of Maui, Molokai, Lanai, and Kahoolawe
* Hawaii County

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Tropical Storm Warning is in effect for...
* Maui County...including the islands of Maui, Molokai, Lanai, and Kahoolawe
* Hawaii County

A Tropical Storm Watch is in effect for...
* Oahu

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

A Tropical Storm Watch means that tropical storm conditions are possible in the watch area within 48 hours.
Interests on Kauai and Niihau should closely monitor the progress of Olivia.

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

DISCUSSION AND OUTLOOK
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At 500 AM HST (1500 UTC), the center of Hurricane Olivia was located near latitude 21.7 North, longitude 148.0 West. Olivia is moving toward the west near 10 mph (17 km/h). This general motion is expected to continue early today, followed by a turn toward the west-southwest starting later today. This west-southwest motion is expected to continue through Tuesday night. On this forecast track, tropical storm conditions are expected over parts of Hawaii starting late Tuesday.

Maximum sustained winds are near 85 mph (140 km/h) with higher gusts. Little change in strength is forecast today, with slight weakening starting tonight and continuing through Tuesday. However, Olivia is forecast to be a strong tropical storm when it reaches the Hawaiian Islands.

Hurricane-force winds extend outward up to 30 miles (45 km) from the center and tropical-storm-force winds extend outward up to 115 miles (185 km).

The estimated minimum central pressure is 980 mb (28.94 inches).

HAZARDS AFFECTING LAND
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WIND: Tropical storm conditions are expected somewhere within the warning area starting late Tuesday. Tropical storm conditions are possible within the watch area starting early Wednesday morning.

RAINFALL: Olivia is expected to produce total rainfall accumulations of 10 to 15 inches. Isolated maximum amounts of 20 inches are possible, especially over windward sections of Maui County and the Big Island. This rainfall may produce life-threatening flash flooding.

SURF: Large swells generated by Olivia will spread from east to west across the Hawaiian Islands early this week. This will cause surf to build along exposed east facing shorelines as Olivia approaches. This surf may become damaging across parts of the state.

NEXT ADVISORY
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Next intermediate advisory at 800 AM HST.
Next complete advisory at 1100 AM HST.

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Forecaster Houston

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, Kawaihæ - Water Level, Kawaihæ - Winds, Kawaihæ - Barometric, Kahului, Kahului Harbor - Water
Last Observed Sample: 09/10/2018 06:42 (HST). Data relative to MHHW

- Observed: -0.80 ft.
- Predicted: -1.49 ft.
- Residual: 0.69 ft.

Historical Maximum Water Level: Jul 24 2017, 1.54 ft.

Next High Tide: 09/10/2018 15:49 (HST), 0.34 ft.

Last Observed Sample: 09/10/2018 06:42 (HST)

Wind Speed: 4 knots  Gusts: 5 knots  Direction: 231° T
NOAA/NOS/CO-OPS 161760 Hilo, Hilo Bay, Kuhio Bay, HI

Barometric Pressure

Last Observed Sample: 09/10/2018 06:42 (HST)
Barometric Pressure: 1012.8 mb

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI

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

Last Observed Sample: 09/10/2018 06:42 (HST). Data relative to MHHW
Observed: -0.49 ft. Predicted: -1.00 ft. Residual: 0.51 ft.
Historical Maximum Water Level: Dec 15 2016, 1.33 ft.
Next High Tide: 09/10/2018 16:46 (HST), 0.06 ft.
NOAA/NOS/CO-OPS 1617433 Kawaihae, HI

Wind Speed / Gusts / Direction

Last Observed Sample: 09/10/2018 06:42 (HST)
Wind Speed: 0 knots Gusts: 2 knots Direction: 22° T

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI

Barometric Pressure

Last Observed Sample: 09/10/2018 06:42 (HST)
Barometric Pressure: 1012.9 mb
Last Observed Sample: 09/10/2018 06:42 (HST). Data relative to MHHW

- Observed: -1.45 ft.
- Predicted: -1.78 ft.
- Residual: 0.33 ft.

Historical Maximum Water Level: Aug 21 2017, 1.33 ft.

Next High Tide: 09/10/2018 15:09 (HST), 0.32 ft.

Last Observed Sample: 09/10/2018 06:42 (HST)

- Wind Speed: 3 knots
- Gusts: 4 knots
- Direction: 281° T
NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI

Barometric Pressure

Last Observed Sample: 09/10/2018 06:42 (HST)
Barometric Pressure: 1013.8 mb

NOAA/NOS/CO-OPS 1612480 Mokuoloa, HI

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

Last Observed Sample: 09/10/2018 07:00 (HST). Data relative to MHHW
Observed: -1.53 ft. Predicted: -1.80 ft. Residual: 0.27 ft.
Historical Maximum Water Level: Aug 21 2017, 1.47 ft.
Next High Tide: 09/10/2018 15:17 (HST), 0.08 ft.
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI

Wind Speed / Gusts / Direction

Last Observed Sample: 09/10/2018 07:00 (HST)
Wind Speed: 2 knots Gusts: 3 knots Direction: 244° T

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI

Barometric Pressure

Last Observed Sample: 09/10/2018 07:00 (HST)
Barometric Pressure: 1014.0 mb
Last Observed Sample: 09/10/2018 06:42 (HST). Data relative to MHHW:
- Observed: -0.40 ft. Predicted: -0.80 ft. Residual: 0.40 ft.
- Next High Tide: 09/10/2018 16:43 (HST), 0.14 ft.

Last Observed Sample: 09/10/2018 06:42 (HST)
- Wind Speed: 3 knots
- Gusts: 6 knots
- Direction: 341° T
Barometric Pressure

Last Observed Sample: 09/10/2018 06:42 (HST)
Barometric Pressure: 1013.5 mb

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

Last Observed Sample: 09/10/2018 07:00 (HST). Data relative to MHHW
Observed: -0.44 ft. Predicted: -0.91 ft. Residual: 0.47 ft.
Historical Maximum Water Level: Sep 11 1992, 3.15 ft.
Next High Tide: 09/10/2018 16:24 (HST), 0.08 ft.
NOAA/NOS/CO-O PS 1611400 Nawiliwili, HI

Wind Speed / Gusts / Direction

Wind Speed: 4 knots  Gusts: 4 knots  Direction: 266° T

Barometric Pressure

Barometric Pressure: 1014.5 mb

Last Observed Sample: 09/10/2018 07:00 (HST)
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<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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<td>0.47 ft</td>
<td>0.78 ft</td>
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