

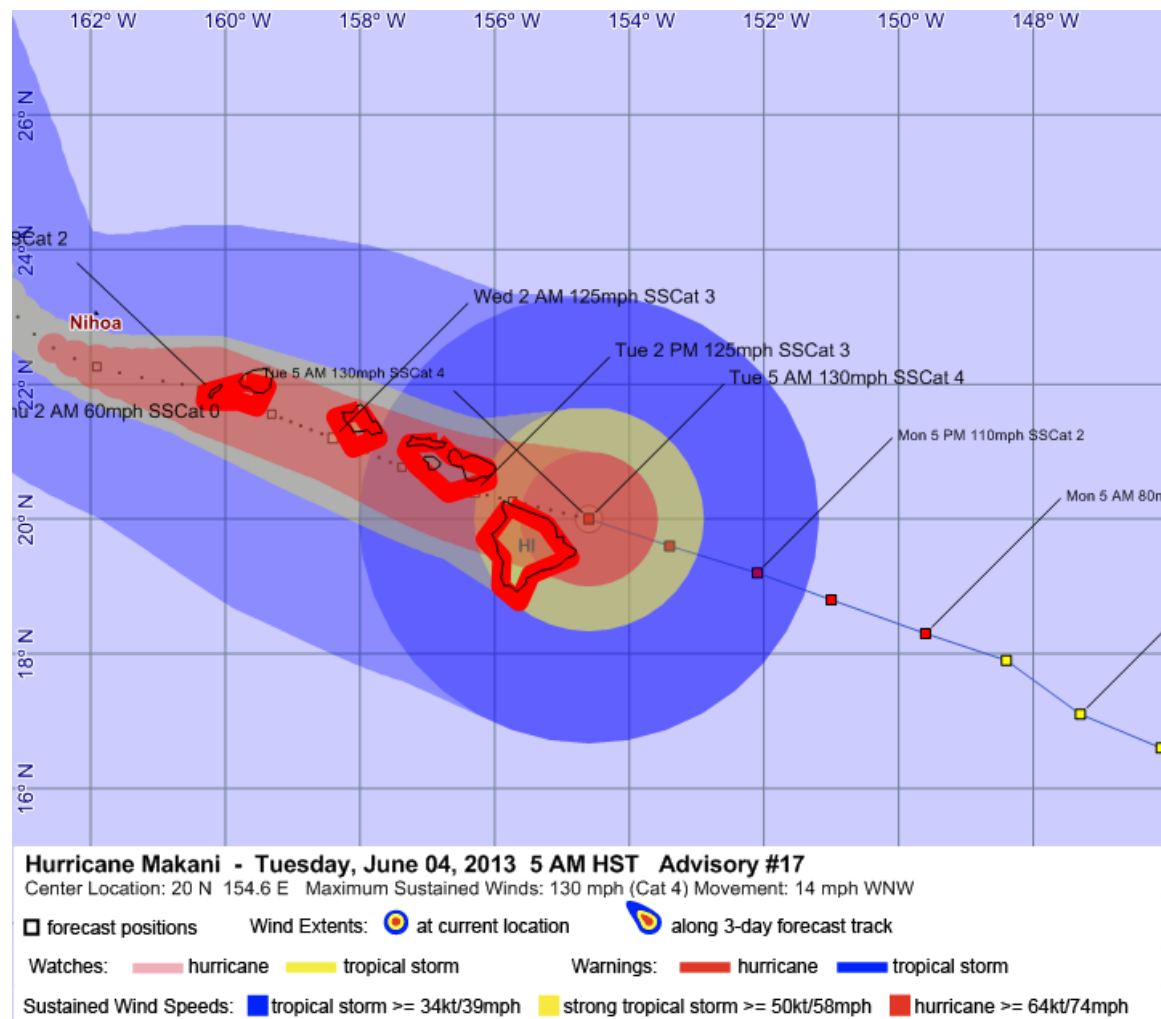
# Storm Summary for Hurricane Makani

Tuesday, June 4, 2013 at 5 AM HST

(Output from Hurrevac, based on Central Pacific Hurricane Center Forecast Advisory # 17)

Hurricane Makani is currently a Category 4 major hurricane on the Saffir-Simpson Hurricane Wind Scale, with maximum sustained winds of 130 mph (115 kts), moving west-northwest at 14 mph. The estimated minimum central pressure is 949 mb. Hurricane-force winds extend outward up to 70 miles (110 km) from the storm center. Tropical storm-force winds extend outward up to 230 miles (370 km) from the storm center.

Certain coastal locations are under Hurricane Warning as illustrated in the map below. The geographic extents of these watches and warnings are detailed in the advisory text at the end of this report.



## **Wind Analysis for Maui, HI**

*(Based upon Hurricane Makani Advisory #17)*

### Wind Probabilities

LANAI CITY, the closest reporting location, has within the 5-day forecast period of this advisory, a 82% chance of at hurricane-force (64kt/74mph) winds, a 95% chance of at least strong tropical storm-force (50kt/58mph) winds, and a 99% chance of at least tropical storm-force (34kt/39mph) winds.

### Peak Wind\*

Winds in Maui, HI are projected to peak at 110kt/126mph around 3:00 PM on Tuesday, June 04, 2013

### Wind Arrival and Duration\*

Tropical storm-force winds (34kt/39mph) are forecast to begin in Maui, HI on Tuesday, June 04, 2013 at 5:00 AM. Winds of this magnitude or higher are forecast to continue for 28 hours.

Strong tropical storm-force winds (50kt/58mph) are forecast to begin in Maui, HI on Tuesday, June 04, 2013 at 5:00 AM. Winds of this magnitude or higher are forecast to continue for 18 hours.

Hurricane-force winds (64kt/74mph) are forecast to begin in Maui, HI on Tuesday, June 04, 2013 at 9:00 AM. Winds of this magnitude or higher are forecast to continue for 12 hours.

\* These wind estimations are limited to the first 72 hours (3 days) following advisory issuance, and are subject to considerable forecast uncertainty and generalization, especially if the storm is distant. Maximum sustained winds (the highest surface wind maintained over a 1 minute period) are reported here. Wind gusts and winds at higher elevations will be greater.

ZCZC HFOTPCP1 ALL  
TTAA00 PHFO DDHHMM

BULLETIN  
HURRICANE MAKANI ADVISORY NUMBER 17  
NWS CENTRAL PACIFIC HURRICANE CENTER HONOLULU HI CP862013  
500 AM HST TUE JUN 04 2013

EXERCISE EXERCISE EXERCISE EXERCISE EXERCISE EXERCISE

...MAKANI REACHES CATEGORY FOUR STRENGTH...

SUMMARY OF 500 AM HST...1500 UTC...INFORMATION

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LOCATION...20.0N 154.6W  
ABOUT 40 MI...60 KM ENE OF HILO HAWAII  
ABOUT 230 MI...375 KM ESE OF HONOLULU HAWAII  
MAXIMUM SUSTAINED WINDS...130 MPH...215 KM/H  
PRESENT MOVEMENT...WNW OR 290 DEGREES AT 14 MPH...22 KM/H  
MINIMUM CENTRAL PRESSURE...949 MB...28.02 INCHES

WATCHES AND WARNINGS

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SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WARNING IS IN EFFECT FOR...

\*HAWAII COUNTY  
\*MAUI COUNTY  
\*HONOLULU COUNTY  
\*KAUAI COUNTY

A HURRICANE WARNING MEANS THAT HURRICANE CONDITIONS ARE EXPECTED SOMEWHERE WITHIN THE WARNING AREA. A WARNING IS TYPICALLY ISSUED 36 HOURS BEFORE THE ANTICIPATED FIRST OCCURRENCE OF TROPICAL STORM FORCE WINDS...CONDITIONS THAT MAKE OUTSIDE PREPARATIONS DIFFICULT OR DANGEROUS. PREPARATIONS TO PROTECT LIFE AND PROPERTY SHOULD BE COMPLETE.

DISCUSSION AND 48-HOUR OUTLOOK

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AT 500 AM HST...1500 UTC...THE CENTER OF HURRICANE MAKANI WAS LOCATED NEAR LATITUDE 20.0 NORTH...LONGITUDE 154.6 WEST. MAKANI IS MOVING TOWARD THE WEST-NORTHWEST NEAR 14 MPH...22 KM/H...AND THIS MOTION IS EXPECTED TO CONTINUE FOR THE NEXT 24 HOURS BEFORE MAKANI TAKES A NORTHERLY TURN.

MAXIMUM SUSTAINED WINDS ARE NEAR 130 MPH...215 KM/H...WITH HIGHER GUSTS. MAKANI IS A CATEGORY FOUR HURRICANE ON THE SAFFIR-SIMPSON SCALE. MAKANI IS EXPECTED TO REMAIN A CATEGORY 3 OR 4 HURRICANE OVER THE NEXT 24 HOURS BEFORE RAPIDLY WEAKENING THEREAFTER.

HURRICANE FORCE WINDS EXTEND OUTWARD UP TO 70 MILES...110 KM...FROM THE CENTER...AND TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 230 MILES...370 KM.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 949 MB...28.02 INCHES.

HAZARDS AFFECTING LAND

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WINDS...MAKANI WILL GENERATE A SWATH OF DAMAGING WINDS AS IT CROSSES

HAWAII OVER THE NEXT 24 HOURS. SIGNIFICANT WIND DAMAGE AND WIDESPREAD POWER AND COMMUNICATION OUTAGES ARE LIKELY.

SURF...LARGE BREAKING WAVES WILL IMPACT ALL SHORES OF THE HAWAIIAN ISLANDS OVER THE NEXT 24 HOURS. THE LARGE WAVES WILL CAUSE COASTAL INFRASTRUCTURE DAMAGE ALONG WITH COASTAL OVERWASH AND FLOODING.

SURGE...SIGNIFICANT STORM SURGE OF 2 TO 8 FEET IS EXPECTED TO IMPACT ALL ISLANDS OVER THE NEXT 24 HOURS. SURGE WILL BE MAXIMIZED ALONG EASTERN AND SOUTHERN SHORES.

RAINFALL...MAKANI IS EXPECTED TO CREATE 6 TO 14 INCHES OF RAINFALL AND SIGNIFICANT FLOODING. LOCALIZED HEAVIER AMOUNTS ARE LIKELY.

NEXT ADVISORY

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NEXT COMPLETE ADVISORY...1100 AM HST.

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FORECASTER CRAIG

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