

Hawai'i Ho'ohekili

Skywarn Weather Spotter Newsletter National Weather Service, Honolulu, HI



Dry Season Edition, 2019

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Inside this edition: Weak El Nino conditions, Record rainfall April 2018, New Geostationary Satellite, and a new Skywarn training video



the Hawaiians used clouds as a way of forecasting short term weather.

Kauai and Oahu Flash Flooding Event of April 13-15, 2018

An upper level low pressure system tapped into enhanced moisture embedded within the low level trade winds and produced torrential rainfall and severe flooding over portions of Kauai and Oahu.



- Significant rainfall was confined to the eastern third of O'ahu with locations on the west of Honolulu mostly having less than 0.10 inches during the 24 hour period.
- At Waimanalo Stream on the windward side of the Ko'olau Range, the water level rose 3 feet in about 30 minutes and 5 feet in an hour USGS)!

Kauai had record breaking rainfall of Waipā Gardens of 49.69" in a 24 hour period.



Unlike most heavy rain events which affect the island, this round of rainfall was centered along the lower elevations and coastal sections instead of over the upper slopes. This suggests that a significant portion of the event was driven by larger storm scale processes rather than the usual enhancement of rainfall by the mountainous terrain.

GOES-17 IS NOW OPERATIONAL A NEW ERA HAS BEGUN

GOES-17 is now operational as NOAA's GOES West satellite! It will serve as the primary geostationary satellite for detecting and monitoring Pacific storm systems, fog, wildfires, and other weather phenomena focusing on the western United States, Alaska, and Hawaii.

GOES-17 reached its geostationary orbit at 22,000 miles above Earth. The satellite is located at 137.2 degrees West longitude. The high-resolution visible and infrared imagery will improve hurricane forecasts and allow our office (NWS HFO and the Central Pacific Hurricane Center) to also better predict areas of intense rainfall.



Quotes regarding the new satellite:

"The latest GOES series of satellites play a critical role protecting the public each day, ensuring better data reaches the forecasters who safeguard countless American lives from weather-related disaster." -Secretary of Commerce Wilbur Ross

"Extraordinary observations from GOES-17 are being infused into the forecast process, enabling us to offer new and improved forecasts, products, and services that save lives and property." -Louis W. Uccellini, Ph.D., Director, NOAA's National Weather Service

New Skywarn Video coming this year!

Skywarn training and refresher training will also be provided in an online format specifically produced for Hawaii's local weather!

A video format so you can get your refresher training done by watching the video, and then taking a short quiz to receive your initial or renewed Skywarn certification for another 3 years!

It will be provided online through our social media account and youtube. It will allow us to certify or recertify weather spotters even if they are not able to make it to in-person training.

We will still have our in-person training throughout the neighbor islands to interact with our customers and partners face to face.



Skywarn Video

In our video, you will be able to meet some of our staff. Chris Brenchley (Meteorologist in Charge), Ashley Evans (Director of Operations), John Bravender (Warning Coordinator Meteorologist), and Chevy Chevalier (Meteorologist) will guide you through the online training. Local videos and lessons are implemented to make sure spotters keep safety as a priority when reporting the weather to us.