

Regional Impacts for Fall 2012

Highlights for Hawaii and the Pacific Islands Region

Fisheries

Associated with the upwelling of deep, cold and nutrient-rich water masses, an ocean eddy located off the Kona Coast of the Big Island resulted in increased bioproductivity levels (i.e.: phytoplankton).

Agriculture and Husbandry

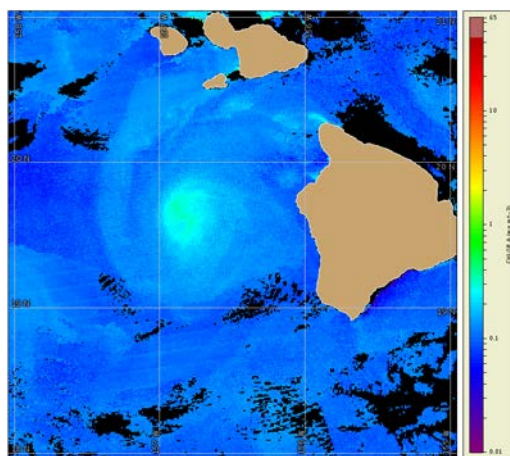
Farming and ranching continues to suffer in Hawaii due to persistence of drought conditions. On Kauai, Oahu, Maui, and the Big Island, degraded pastures have required ranchers to reduce their herd size. On Molokai there was a mandatory 30% cutback in irrigation water usage.

Water Resources

On Majuro in the RMI, water restrictions were considered when the reservoir fell to 17 million gallons (out of 33 million gallons total capacity).

Wildfire

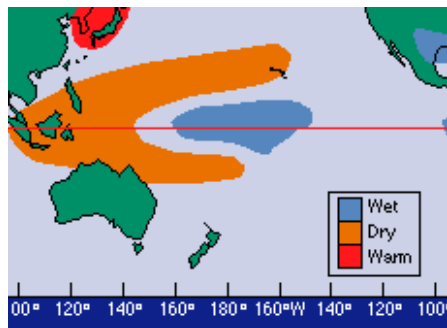
Dry conditions in Hawaii have led to wildfires. On the Big Island, a large brush fire damaged coffee and macadamia nut plants and pastures.



VIIRS Ocean color (chlorophyll-a) image acquired on 4 April 2012 by the newly-launched NOAA/NASA NPP satellite depicting the location of a mesoscale oceanographic eddy off the Island of Hawaii. Source: <http://oceanwatch.pifsc.noaa.gov>

Regional Outlook for Winter 2012

Highlights for Hawaii and the Pacific Islands Region



Typical conditions in the Northern Hemisphere Winter during El Niño. Source: http://www.pmel.noaa.gov/tao/el_nino/impacts.html

El Niño is expected to develop.

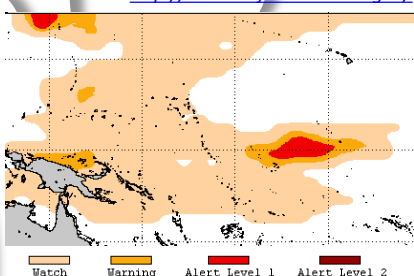
Due to the trend of increasing SSTs, a coral bleaching watch exists across much of the west Pacific and portions of the south central Pacific. Portions of the equatorial central Pacific are at Alert Level 1.

Below-normal temperatures and rainfall are expected for Hawaii. As a result, drought will worsen and the risk of wildfires will remain high. The southwest monsoon and tropical storms should bring rain to Guam and CNMI. In the FSM, rainfall is anticipated to be above-normal in Chuuk, near-normal in Kosrae, near-normal to above-normal in Pohnpei, and normal to above-normal in Yap. In Palau rainfall is expected to be near-normal to above-normal. As the El Niño builds, the expectation is that these areas will become progressively drier in the NH Spring, with some locations drying by the NH Winter. Near-normal to above-normal rainfall is expected for American Samoa.

Sea Levels will continue to be above normal, but are expected to fall across the region in conjunction with the strengthening of El Niño.

Tropical cyclone activity for 2012 will be slightly above-normal in the western North Pacific and near normal for Micronesia. For American Samoa, tropical cyclone activity is expected to progressively increase.

Bleaching Thermal Stress Outlook, Sep-Dec 2012. Source: <http://coralreefwatch.noaa.gov/>



Regional Partners

PEAC Center: <http://www.prh.noaa.gov/peac/>

NOAA National Weather Service Weather Forecast Office Honolulu : <http://www.prh.noaa.gov/pr/hnl/>

NOAA National Weather Service Weather Forecast Office Guam: <http://www.prh.noaa.gov/pr/guam/>

NOAA NESDIS National Climatic Data Center: <http://www.ncdc.noaa.gov/sotc/>

NOAA NMFS Pacific Island Fisheries Science Center: <http://www.pifsc.noaa.gov/>

NOAA OceanWatch - Central Pacific <http://oceanwatch.pifsc.noaa.gov/>

NOAA Coral Reef Watch <http://coralreefwatch.noaa.gov/>

USGS Pacific Islands Water Science Center: <http://hi.water.usgs.gov/>

University of Hawaii - Joint Institute of Marine and Atmospheric Research (JIMAR): <http://www.soest.hawaii.edu/jimar/>

University of Guam - Water and Environmental Research Institute (WERI): <http://www.weriguam.org/>