Data and Products Wed Mar 27 23:38:48 HST 2024

| Name | Local Climate Analysis Tool (LCAT) |
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| Capability Area | - Understanding Climate Variability and Change<br>- Understanding Climate Impacts and Informing Adaptation |
| Focus Area | - Fresh Water Resources and Drought<br>- Coastal Inundation/Sea Level Rise, Extreme Weather, and Community Resilience |
| Regions | - Central North Pacific<br>- State Of Hawaii<br>- Western North Pacific<br>- CNMI<br>- FSM<br>- Guam<br>- Palau<br>- RMI<br>- South Pacific<br>- American Samoa |
| Products/Physical | - Products - Physical<br>- Hindcasts (climatologies)<br>- Guidance, including “Best Practices” Manuals, Toolkits, and Guides<br>- Atmospheric (e.g., Air Temperature, Rainfall, Wind Speed and Direction)<br>- Oceanic (e.g., Water Temperature, Salinity, Acidity, Sea Level, Wave Height) |
| Sectors | - Public Health and Safety<br>- Fresh Water Resources<br>- Energy<br>- Transportation/Communication and Commerce<br>- Social and Cultural Resources<br>- Agriculture and Fisheries<br>- Recreation and Tourism<br>- Ecosystems |

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| Description | The Local Climate Analysis Tool (LCAT) will enable National Weather Service (NWS) Regional Headquarters, Weather Forecast Offices (WFO)/, Weather Service Offices (WSO)/, and River Forecast Centers (RFC) the ability to conduct regional and local climate studies using station and reanalysis gridded data and various statistical techniques for climate analysis. The analysis results will be used for climate services to guide local decision makers in weather and climate sensitive actions and to deliver information to the general public. LCAT will augment current climate reference materials with information pertinent to the local and regional levels as they apply to diverse variables appropriate to each locality. The LCAT outcomes will be useful for governmental, economic and business planning. NWS external partners and government agencies will benefit from the LCAT outputs that could be easily incorporated into their own analysis and/or delivery systems. |
| Lead Agencies | NOAA Office of Climate, Water and Weather Services (OCWWS)/Climate Services Division (CSD) |
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