



**Pacific Climate Information System**  
**Building Integrated Partnerships for End-to-End Climate Services**

## Pacific Region Project and Activities Website

May 23, 2011

Jessica Aschettino – HIMB Intern at NOAA IDEA Center


# Project Goals & Capabilities

- 2010 PaCIS Implementation Plan workshop
  - Need for website encompassing various climate-related projects in Pacific
- Website promotes access and fosters collaborations
- Browse by any combination of:

## Capability

- Outreach, Education, Training and Capacity Building
- Observing Systems, Data Stewardship, Data Services
- Understanding and Predicting Climate Change & Variability
- Policies & Legislation; Assessment & Evaluation

## Focus area

- Preserving Fresh Water Resources & Minimizing the Impacts of Drought 
- Fostering Community Resilience to Sea Level Rise/Coastal Inundation, & Extreme Weather 
- Sustaining Marine & Terrestrial Ecosystems 

## Region

- Central North Pacific
  - Western North Pacific
  - South Pacific
  - Other
- Text Search (simple words or phrases)
  - Advanced search (by any combination of project attributes)
  - Data input, editing (administrative interface)



## Projects and Activities

## Organizations/Agencies

## Contact

### Browse By

#### By Capability:

All  
Outreach, Education, Training and Capacity Building  
Observing Systems, Data Stewardship, and Data Services  
Understanding and Predicting Climate Change and Variability  
Understanding Climate Impacts and Informing Adaptation  
Policies and Legislation  
Assessment and Evaluation

#### By Focus Area:

All  
Fresh Water Resources and Drought  
SLR/Coastal Inundation and Extreme Weather  
Marine and Terrestrial Ecosystems

#### By Region:

All  
Central North Pacific (Hawaiian Islands)  
Western North Pacific (Guam, CNMI, FSM, RMS, Palau)  
South Pacific (American Samoa, Samoa, Tonga, Fiji, etc.)  
Other

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### Text Search

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Name	NOAA OceanWatch - Central Pacific Office
Description	NOAA OceanWatch produces numerous oceanographic satellite remote sensing data products that range in coverage from Hawaii-specific to global. Among the datasets available include multi-decade time-series of sea-surface temperature, sea-surface height and geostrophic currents, surface chlorophyll-a ocean color, and ocean surface winds. All data is available online at <a href="http://oceanwatch.pifsc.noaa.gov">http://oceanwatch.pifsc.noaa.gov</a>
Status	on-going
Focus Area	
Region/Locale	<ul style="list-style-type: none"><li>Central North Pacific - State of Hawai'i</li><li>Western North Pacific</li><li>South Pacific</li><li>Other (Outside Pacific Region)</li></ul>
Lead Agencies	CW, NESDIS
Contacts	Lucas Moxey( <a href="mailto:lucas.moxey@noaa.gov">lucas.moxey@noaa.gov</a> ), Jeffrey Polovina( <a href="mailto:jeffrey.polovina@noaa.gov">jeffrey.polovina@noaa.gov</a> )

Name	Extremes in the Pacific Integrated Case Studies (EPICS)
Description	The concept of historical storm events case studies has been formulated as part of the U.S. National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center (NCDC), Integrated Data and Environmental Applications (IDEA) Centers EPICS project. EPICS (formerly known as Event Anatomies) was a part of and is the follow-on from a project referred to as Pacific Region Integrated Climatology Information Products (PRICIP), an effort focused on improving the understanding of patterns and trends of storm frequency and intensity - storminess - within the Pacific region. These case studies include a summary of sector-specific socioeconomic impacts associated with a particular extreme event, as well as its historic context climatologically. To date, content has been developed for ten extreme events: Hurricane Iniki in the central North Pacific; Typhoon Chataan and Super Typhoon Pongsona in the western North Pacific; Hurricanes Heta, Meena, Nancy, Olaf and Percy in the ce
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Lead Agencies	NCDC, NESDIS/IDEA
Contacts	Eric Wong( <a href="mailto:Eric.Wong@noaa.gov">Eric.Wong@noaa.gov</a> )

# PaCIS 2010 Project and Activity Worksheet

**Name/Title:**

**NOAA OceanWatch - Central Pacific Office**

**Capability Area** (select all that apply):

- ☐ Training and Capacity Building      ☒ Education      ☒ Outreach
- ☒ Observing Systems and Data Stewardship      ☒ Data Services
- ☒ Understanding Climate Variability and Change (including "Best Practices" Guidance)
- ☒ Operational Products and Services
  - ☒ Research/Development
  - ☐ Historical Observations (hindcasts/climatologies)
  - ☐ Projections (modeling and downscaling)

Parameter:

- Atmospheric:      ☒ Surface (e.g., temp, precip, wind)      ☐ Upper-Air      ☐ Composition
- Oceanic:      ☒ Surface (e.g., SST, SSH, salinity, ocean color)
- ☐ Sub-surface (e.g., temp, salinity, nutrients, Carbon, phytoplankton)
- Terrestrial      ☐ (e.g., surface water, glaciers and ice caps, land cover, biomass)
- Time Frame:      seasonal (outlook)      intra-annual to decadal      multi-decadal (scenarios)



# PaCIS 2010 Project and Activity Worksheet

**Name/Title:**

**NOAA OceanWatch - Central Pacific Office**

**Capability Area** (select all that apply):

- ☐ Training and Capacity Building    ☒ Education    ☒ Outreach
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- ☒ Understanding Climate Variability and Change (including "Best Practices" Guidance)
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- Atmospheric:    ☒ Surface (e.g., temp, precip, wind)    ☐ Upper-Air    ☐ Composition
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  - ☐ Sub-surface (e.g., temp, salinity, nutrients, Carbon, phytoplankton)
- Terrestrial    ☐ (e.g., surface water, glaciers and ice caps, land cover, biomass)
- Time Frame: ☐ seasonal (outlook)    ☐ intra-annual to decadal    ☐ multi-decadal (scenarios)
- ☐ Understanding Climate Impacts and Informing Adaptation (including "Decision Support Tools" Applications)
- ☐ Climate Impacts
    - ☐ Historical Observations
    - ☐ Projections
  - ☐ Climate Adaptation
- Sector: ☐ Public Health and Safety; ☐ Fresh Water Resources; ☐ Energy;  
☐ Transportation/Communication, and Commerce; ☐ Community Planning and Development;  
☐ Social and Cultural Resources; ☐ Agriculture and Fisheries; ☐ Recreation and Tourism;  
☐ Ecosystems; ☐ Other
- ☐ Policies and Legislation    ☐ Assessment and Evaluation

**Focus Area** (select all that apply):

- ☐ Fresh Water Resources and Drought
- ☐ Coastal Inundation/SLR, Extreme Weather, and Community Resilience
- ☒ Marine and Terrestrial Ecosystems

**Region/Locale:**

- ☒ Central North Pacific: ☒ State of Hawai'i: ☐ Island of Hawai'i, ☐ Kaua'i, ☐ Maui, ☐ O'ahu    ☐ Other
- ☒ Western North Pacific: ☐ Guam    ☐ CNMI    ☐ FSM    ☐ RMI    ☐ Palau    ☐ Other
- ☒ South Pacific: ☐ American Samoa    ☐ Samoa    ☐ Tonga    ☐ Fiji    ☐ Australia    ☐ New Zealand
- ☐ French Polynesia    ☐ Other
- ☒ Other

**Status:**    ☒ on-going,    ☐ planned    ☐ proposed

# PaCIS 2010 Project and Activity Worksheet

**Description** (including tasks):

NOAA OceanWatch produces numerous oceanographic satellite remote sensing data products that range in coverage from Hawaii-specific to global. Among the datasets available include multi-decade time-series of sea-surface temperature, sea-surface height and geostrophic currents, surface chlorophyll-a ocean color, and ocean surface winds. All data is available online at <http://oceanwatch.pifsc.noaa.gov>.

**Objectives/Outcomes** (including deliverables):

Production and distribution of historical and near-real time oceanographic satellite remote sensing datasets; providing data support to various national/international operational & research projects.

**Lead Agencies:**

NOAA, NESDIS, CoastWatch

**Contact** (names, emails)

Lucas Moxey ([lucas.moxey@noaa.gov](mailto:lucas.moxey@noaa.gov))  
Jeffrey Polovina ([jeffrey.polovina@noaa.gov](mailto:jeffrey.polovina@noaa.gov))

**Partnering agencies, institutions, and organizations**

(and their roles and responsibilities):

N/A

**Required Resources** (financial, technical, etc.):

N/A

**Projected Timelines:**

Ongoing

**Feedback Mechanisms and Evaluation Measures:**

*Note: Projects are more focused efforts of limited duration typically resulting in a specific product as an outcome. Activities are more general efforts that tend to be on-going and programmatic, with outcomes of a broader nature.*



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Contacts	Eric Wong( <a href="mailto:Eric.Wong@noaa.gov">Eric.Wong@noaa.gov</a> )

Write: (no subject)

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From: Jessica Aschettino <jessica.aschettino@noaa.gov> jessica.aschettino@noaa.gov

To:	
lucas.moxey@noaa.gov	

Subject:

Body Text Variable Width

Jessica Aschettino  
HIMB Intern @ NOAA IDEA Center





**Pacific RISA**  
managing climate risk in the Pacific



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# NOAA SATELLITE AND INFORMATION SERVICE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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Message from  
**Mary Kicza**,  
Assistant Administrator



## Image of the Day



[Tsunami Wave Height Model Shows Pacific-Wide Impact >](#)

Image by: [Environmental Visualization Laboratory](#)

## NOAA Satellites Observe Warming Oceans

Profile:  
Q&A with Sydney Levitus



[Read the Q & A >>](#)

## WALLOPS CDA Station's Environmental Management System Finds Large Savings in Green Operations

With funding from a 2010 NOAA Green Mini-Grant of \$12,200 staff at the [Wallops Command and Data Acquisition Station \(WCDAS\)](#), implemented energy-saving procedures and equipment that will reduce the facility's annual electric consumption by 14% from 2009 to 2010, a projected savings of approximately \$60,000 per year.

Located near Chincoteague, Virginia, the staff members at the WCDAS are responsible for recovering and delivering data from NOAA's



Wallops Command and Data Acquisition Station (WCDAS) near Chincoteague, Virginia

## Upcoming Events

- [NOAA's 2011 Satellite Direct Readout Conference April 4-8, 2011; Miami, FL](#)
- [National Space Symposium April 11-14, 2011; Colorado Springs, CO](#)



## Recent News

- [March 11, 2011 Honshu tsunami](#)
- [NOAA Satellites: Monitoring the Health of Global Vegetation from Space](#)

[NESDIS Archive](#) | [NOAA Archive](#)

## News Makers

Gary Davis:  
AMS Award-  
Meteorology,  
Oceanography,  
Climatology...





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## Contact

## Browse By

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Outreach, Education, Training and Capacity Building  
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Assessment and Evaluation

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All  
Fresh Water Resources and Drought  
SLR/Coastal Inundation and Extreme Weather  
Marine and Terrestrial Ecosystems

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- Policies and Legislation**
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**Name** [Coastal Community Planning and Development training](#)

**Description** The Coastal Community Planning and Development (CCPD) training will enable participants to understand, plan, and guide alternative growth and development efforts in their communities. This two-day course provides participants with the background, examples, strategies, and resources needed to support alternative development efforts. The many benefits of alternative development include the potential to strengthen resilience to natural hazards and the impacts of climate change.

**Status** planned

**Focus Area**  

**Region/Locale** • Central North Pacific


**Lead Agencies** [NOAA](#)

**Contacts** Susan Fox([susan.fox@noaa.gov](mailto:susan.fox@noaa.gov)), Steve Frano([steve.frano@noaa.gov](mailto:steve.frano@noaa.gov))

**Name** [Pacific ENSO Update Quarterly Newsletter](#)

**Description** The Pacific ENSO Update, a quarterly newsletter, provides tailored climate forecasts for the U.S.-affiliated Pacific Islands. The newsletters focus is to introduce new climate research and provide relevant climate information to climate sensitive sectors such as water resources, fisheries, agriculture, civil defense, energy and others of economic and environmental importance to the USAPI.

**Status** on-going

**Focus Area**   

**Region/Locale** • Central North Pacific - State of Hawai'i: Island of Hawai'i, Maui, Oahu, Kauai  
• Western North Pacific - Guam, CNMI, FSM, RMI, Palau  
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• Other (Outside Pacific Region)

**Lead Agencies** [NWS](#), [PEAC Center](#)

**Contacts** LTJG Charlene Felkley([peac@noaa.gov](mailto:peac@noaa.gov))

**Name** [Designing a Framework to Address Climate Impacts on Cultural Resources](#)

Climate change will be an added stressor on all systems---biological, ecological, social, economic, political, and cultural. Because of the location amidst the heart of the Earth's climate system, the Pacific Islands are among the first to experience the impacts of climate change. The National Park Service (NPS) has interest in anticipating how protection of cultural resources, stewarded by the park service, will likely be impacted by climate change. The intent of this project during the initial year, or phase one, is to

Done Calculator



**Pacific RISA**  
managing climate risk in the Pacific



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Status	planned
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Name	<a href="#">Pacific ENSO Update Quarterly Newsletter</a>
Description	The Pacific ENSO Update, a quarterly newsletter, provides tailored climate forecasts for the U.S.-affiliated Pacific Islands. The newsletters focus is to introduce new climate research and provide relevant climate information to climate sensitive sectors such as water resources, fisheries, agriculture, civil defense, energy and others of economic and environmental importance to the USAPI.
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Fresh Water Resources and Drought  
SLR/Coastal Inundation and Extreme Weather  
Marine and Terrestrial Ecosystems

## By Region:

All  
Central North Pacific (Hawaiian Islands)  
Western North Pacific (Guam, CNMI, FSM, RMS, Palau)  
South Pacific (American Samoa, Samoa, Tonga, Fiji, etc.)  
Other

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Name	<a href="http://www.csc.noaa.gov/digitalcoast/training/inundationmap.html">Coastal Inundation Mapping Course</a> <a href="http://www.csc.noaa.gov/digitalcoast/training/inundationmap.html">http://www.csc.noaa.gov/digitalcoast/training/inundationmap.html</a>
Description	This two-day instructor-led course, designed for certified floodplain managers, National Weather Service personnel, and county, state, and municipal officials (including planners, emergency managers, and coastal resource managers), offers a combination of lectures and hands-on exercises to give students a better understanding of coastal inundation issues and mapping methods using a geographic information system (GIS). Topics include the different types of coastal inundation, elevation data sets and datums, spatial methodologies used to map flood areas in a coastal environment, the applications and limitations of various types of inundation products, and exercises for assessing coastal risk. A Pacific version of the course is being developed and planned to be taught in HI in FY11. This version will focus on Pacific issues such as SLR, Tsunamis, and high wave events.
Status	planned
Focus Area	
Region/Locale	<ul style="list-style-type: none"><li>Central North Pacific - State of Hawai'i</li><li>South Pacific - American Samoa</li></ul>
Lead Agencies	<a href="#">NOS/CSC</a> , <a href="#">NOS/PSC</a> , <a href="#">Other</a>
Contacts	Doug Marcy( <a href="mailto:doug.marcy@noaa.gov">doug.marcy@noaa.gov</a> ), Matt Pendleton( <a href="mailto:Matt.Pendleton@noaa.gov">Matt.Pendleton@noaa.gov</a> ), Adam Stein( <a href="mailto:Adam.Stein@noaa.gov">Adam.Stein@noaa.gov</a> )

During the Pacific Climate Information System's (PaCIS) Implementation Plan Workshop, held at the East-West Center from August 31 – September 2, 2010, participants expressed the need for an online regional website that would make available information on the various climate-related projects and activities that were taking place in the Pacific. In an effort to promote accessibility and foster collaborations, the regional projects and activities website was created. This website currently provides information collected from many organizations and will continue to serve as an in-progress site, where users can upload their own relevant projects and work, as well as search other projects and activities.

The website is designed so that the user can browse by a variety of topics, including **capability**, **focus area**, and **region**. Each of these are topics are further broken down:

- **By Capability**

- Outreach, Education, Training and Capacity Building
- Observing Systems, Data Stewardship, and Data Services
- Understanding and Predicting Climate Change and Variability
- Policies and Legislation
- Assessment and Evaluation

- **By Focus Area**

- Preserving Fresh Water Resources and Minimizing the Impacts of Drought



- Fostering Community Resilience to Sea Level Rise/Coastal Inundation, and Extreme Weather



- Sustaining Marine and Terrestrial Ecosystems



- **By Region**

- Central North Pacific (Hawaiian Islands)
- Western North Pacific (Guam, CNMI, FSM, RMS, Palau)
- South Pacific (American Samoa, Samoa, Tonga, Fiji, etc.)
- Other

Additionally, the website allows for text searches should the user be looking for a specific word or phrase. Single or multiple browse options may be used.

In addition to the project and activity overview that is provided on the main site, further information may also be obtained by clicking inside the project and activity box under various headers. If the name of the project is underlined in blue, clicking on it will provide access to the fully submitted project and activity worksheet. Clicking on the lead agency acronyms that are underlined in blue will bring you to the home page of the associated agency, and clicking on a contact email addresses underlined in blue will start an e-mail message to the intended recipient.

To submit a new project, click "Submit Information." ...

For further questions or inquiries, contact John Marra, NOAA Regional Climate Services Director for the Pacific Region ([john.marra@noaa.gov](mailto:john.marra@noaa.gov)).



## Projects and Activities

## Organizations/Agencies

## Contact

### Browse By

#### By Capability:

All  
Outreach, Education, Training and Capacity Building  
Observing Systems, Data Stewardship, and Data Services  
Understanding and Predicting Climate Change and Variability  
Understanding Climate Impacts and Informing Adaptation  
Policies and Legislation  
Assessment and Evaluation

#### By Focus Area:

All  
Fresh Water Resources and Drought  
SLR/Coastal Inundation and Extreme Weather  
Marine and Terrestrial Ecosystems

#### By Region:

All  
Central North Pacific (Hawaiian Islands)  
Western North Pacific (Guam, CNMI, FSM, RMS, Palau)  
South Pacific (American Samoa, Samoa, Tonga, Fiji, etc.)  
Other

Browse

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Name	NOAA OceanWatch - Central Pacific Office
Description	NOAA OceanWatch produces numerous oceanographic satellite remote sensing data products that range in coverage from Hawaii-specific to global. Among the datasets available include multi-decade time-series of sea-surface temperature, sea-surface height and geostrophic currents, surface chlorophyll-a ocean color, and ocean surface winds. All data is available online at <a href="http://oceanwatch.pifsc.noaa.gov">http://oceanwatch.pifsc.noaa.gov</a>
Status	on-going
Focus Area	
Region/Locale	<ul style="list-style-type: none"><li>Central North Pacific - State of Hawai'i</li><li>Western North Pacific</li><li>South Pacific</li><li>Other (Outside Pacific Region)</li></ul>
Lead Agencies	CW, NESDIS
Contacts	Lucas Moxey( <a href="mailto:lucas.moxey@noaa.gov">lucas.moxey@noaa.gov</a> ), Jeffrey Polovina( <a href="mailto:jeffrey.polovina@noaa.gov">jeffrey.polovina@noaa.gov</a> )

Name	Extremes in the Pacific Integrated Case Studies (EPICS)
Description	The concept of historical storm events case studies has been formulated as part of the U.S. National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center (NCDC), Integrated Data and Environmental Applications (IDEA) Centers EPICS project. EPICS (formerly know as Event Anatomies) was a part of and is the follow-on from a project referred to as Pacific Region Integrated Climatology Information Products (PRICIP), an effort focused on improving the understanding of patterns and trends of storm frequency and intensity - storminess - within the Pacific region. These case studies include a summary of sector-specific socioeconomic impacts associated with a particular extreme event, as well as its historic context climatologically. To date, content has been developed for ten extreme events: Hurricane Iniki in the central North Pacific; Typhoon Chataan and Super Typhoon Pongsona in the western North Pacific; Hurricanes Heta, Meena, Nancy, Olaf and Percy in the ce
Status	on-going
Focus Area	
Region/Locale	<ul style="list-style-type: none"><li>Central North Pacific - State of Hawai'i: Oahu, Kauai</li><li>Western North Pacific - Guam, CNMI, FSM, RMI, Palau</li><li>South Pacific - American Samoa, Samoa, Tonga, Fiji, Other South Pacific</li></ul>
Lead Agencies	NCDC, NESDIS/IDEA
Contacts	Eric Wong( <a href="mailto:Eric.Wong@noaa.gov">Eric.Wong@noaa.gov</a> )



Name/Title:

Capability Area(select all that apply):

- ☐ Training and Capacity Building ☐ Education ☐ Outreach
- ☐ Observing Systems and Data Stewardship ☐ Data Services
- ☐ Understanding Climate Variability and Change
- ☐ Operational Products and Services (including Decision Support Tools)
- ☐ Research/Development
- ☐ Historical Observations (hindcasts/climatologies)
- ☐ Projections (modeling and downscaling)
- Parameter:
- Atmospheric: ☐ Surface (e.g., temperature, precipitation, wind) ☐ Upper-Air ☐ Composition
- Oceanic: ☐ Surface (e.g., SST, SSH, salinity, ocean color) ☐ Sub-surface (e.g., temp, salinity, nutrients, carbon, phytoplankton)
- Terrestrial: ☐ Terrestrial (e.g. surface water, glaciers and ice caps, land cover, biomass)
- Time Frame: ☐ seasonal (outlook) ☐ intra-annual to decadal ☐ multi-decadal (scenarios)
- ☐ Understanding Climate Impacts and Informing Adaptation
- ☐ Climate Impacts ☐ Historical Observations ☐ Projections
- ☐ Climate Adaptation
- Sector: ☐ Public Health and Safety; ☐ Fresh Water Resources; ☐ Energy;
- ☐ Transportation/Communication, and Commerce; ☐ Community Planning & Development;
- ☐ Social and Cultural Resources; ☐ Agriculture and Fisheries; ☐ Recreation and Tourism;
- ☐ Ecosystems; ☐ Other;
- ☐ Guidance, including "Best Practices"
- ☐ Climate Variability and Change ☐ Climate Impacts and Informing Adaptation
- ☐ Applications, including Decision-support Tools
- ☐ Climate Variability and Change ☐ Climate Impacts and Informing Adaptation
- ☐ Policies and Legislation ☐ Assessment and Evaluation

Focus Area(select all that apply):

- ☐ Fresh Water Resources and Drought
- ☐ Coastal Inundation/SLR, Extreme Weather, and Community Resilience
- ☐ Marine and Terrestrial Ecosystems

Region/Locale(select all that apply):

- ☐ Central North Pacific: ☐ State of Hawai'i ☐ Island of Hawai'i ☐ Maui, ☐ Oahu, ☐ Kauai, ☐ Other
- ☐ Western North Pacific: ☐ Guam ☐ CNMI ☐ FSM ☐ RMI ☐ Palau ☐ Other
- ☐ South Pacific: ☐ American Samoa ☐ Samoa ☐ Tonga ☐ Fiji ☐ Australia; ☐ New Zealand; ☐ French Polynesia; ☐ Other

Status

- ☐ Ongoing ☐ Planned ☐ Proposed ☒ Not Available

Lead Agencies, Institutions, Organizations:

AIMS: Australian Institute of Marine Science  
APDRC: Asia Pacific Data Research Center  
APEC: Asia-Pacific Economic Cooperation  
ASCC: American Samoa Community College  
ASCMP: American Samoa Coastal Management Program  
ASCMWR: American Samoa Department of Marine and Wildlife  
ASNPS: American Samoa National Park Service  
AUSAID: Australian Government Overseas Aid  
BOM: Australia Bureau of Meteorology  
CAPP: Climate Adaptation Partnership for the Pacific

Partner Agencies, Institutions, Organizations:

AIMS: Australian Institute of Marine Science  
APDRC: Asia Pacific Data Research Center  
APEC: Asia-Pacific Economic Cooperation  
ASCC: American Samoa Community College  
ASCMP: American Samoa Coastal Management Program  
ASCMWR: American Samoa Department of Marine and Wildlife  
ASNPS: American Samoa National Park Service  
AUSAID: Australian Government Overseas Aid  
BOM: Australia Bureau of Meteorology  
CAPP: Climate Adaptation Partnership for the Pacific

Description:

Contact(s):

Names	Emails

Worksheet Filename:

Optional TEXT Label, Abbreviation etc.:Optional NUMERIC, Code, List Sequence etc.:

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Advanced Search

Reset



# Conclusions

- Working prototype website created for projects and activities in the Pacific region that will promote accessibility and foster collaborations
  - Completed site will include fully functional entities, such as agencies, contacts, etc.
- Site currently includes > 50 projects from the Pacific region
- Coordinate application development with ongoing PaCIS Implementation Plan