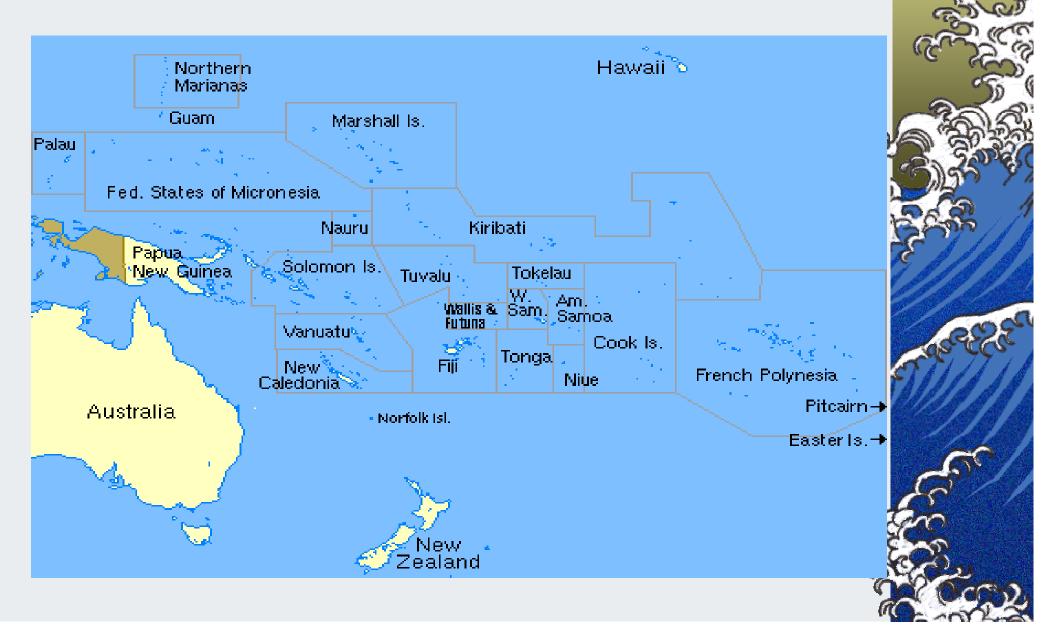
Emergence of a Pacific Climate Information System: Lessons Learned & Future Plans

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Climate Forecasting in the Pacific Region



PEAC Established August 1994

Pacific ENSO Applications Center





Some Lessons Learned for Climate Information Services

- ▲ Focus on integrated climate-society system
- **▲** Decision-makers interested in information on a continuum of timescales:
 - ▲ Addressing today's problems
 - ▲ Planning for the future
- **▲** Early & continuous partnership with users essential:
 - ▲ Shared learning & joint problem-solving
 - ▲ Outreach & dialogue programs as priority activities
 - ▲ Building trust & credibility a long-term endeavor

Some Lessons Learned for Climate Information Services

- ▲ Collaborative, participatory process with users:
 - ▲ Continuous, interactive dialogue
 - **▲**Co-production of knowledge
 - ▲ Document and share experiences

▲ Problem-focused approach:

- ▲ Understand place, context, history and decision making process;
- ▲ Useful & usable information responsive to user needs
- **▲** Continuum of timescales
- ▲ Climate information system vs. event forecasting



Some Lessons Learned for Climate Information Services

▲ Address both process and products:

▲ Integrated program of observations, monitoring, forecasting, assessment, education and applications – with continuous evaluation and adjustment

▲ Build on existing systems, institutions, programs, relationships & networks:

- ▲ Recognize the vital role of trusted information brokers
- ▲ Partnerships between science & operations



Evolution of a Pacific Climate Information System

- ▲ 1997-1998 El Niño demonstrated needs & forecast value
- ▲ 1999 Meeting of Pacific Regional Meteorological Service Directors -- General agreement on PaCIS vision, goal and objectives
- ▲ Discussions among likely partners:
 - ▲ Initiation of monthly forecast calls
 - ▲ Planning for WMO Oceania Regional Climate Centre
- ▲ NWS Climate Services Division Activities
- ▲ PEAC First Decade Review
- ▲ Related Regional Activities:
 - **▲ PI-GCOS**
 - **▲** PRiMO
 - ▲ NOAA IDEA Center



PaCIS Vision

Resilient and sustainable Pacific communities using climate information to manage risks and support practical decisionmaking in the context of climate variability and change.

PaCIS Mission

- ▲ Clarify climate information needs and guide monitoring, research, forecasting and assessment
- ▲ Provide access to critical data, research and new climate information products and services
- ▲ Translate research and assessment results into useful and usable climate information



PaCIS Mission

- ▲ Interpret global and regional climate forecasts for local applications
- ▲ Enhance regional and local capabilities to manage risks and support sustainable development in the context of climate variability and change
- ▲ Enhance collaboration among national, regional and international institutions and programs



PaCIS Program Elements

▲ Education, Outreach and User Information:

- ▲ User dialogue and feedback
- ▲ Educational materials
- ▲ WSO's as local experts/coordinators in partnership with experts in key sectors

△ Operational Products and Services:

- ▲ Develop and evaluate PaCIS services
 - ▲ Regional climate services testbed
- ▲ Cross-regional coordination
- ▲ Support regional observations and data management systems (e.g., PI-GCOS, PI-GOOS, PacIOOS)



PaCIS Program Elements

- **▲** Research and assessment to enhance resilience:
 - ▲ Regional downscaling and local applications
 - ▲ Enhanced understanding of nature and consequences of climate variability and change with a *focus on extreme events*
 - ▲ Support for regional vulnerability assessment and adaptation programs



Emergence of PaCIS: Next Steps and Timeline

- ▲ Prepare *Draft* Implementation Plan (Spring 2006)
- ▲ Convene Regional Steering Committee and Working Groups (Summer 2006)
 - ▲ Education, Outreach, User Needs
 - ▲ Operational Products and Services
 - ▲ Research and Assessment
- ▲ Steering Committee & Working Groups complete Initial Implementation Plan (Fall 2006)
 - ▲ Living document with routine evaluation & revision



Sustainable Development



Observations, science & information services



Individual, Institutional, Community Capacity Building

