



PEAC's current and future programs

- Node in a Pacific Climate Information System
- Monthly coordination calls with NOAA Climate Scientists, University Climate Scientists, New Zealand's NIWA, Australia's BOM, Local National Weather Service Office
- Working with NOAA's NWS Climate Services Division



PEAC's current and future programs

- Comprehensive PEAC Review conducted by East West Center (surveys and workshop)

Pacific ENSO Update

3rd Quarter, 2005 Vol. 11 No. 3

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American Samoa: The total rainfall of 75.32 inches in American Samoa during the first half of 2005 was wetter than normal (114%). Abundant rainfall in April, May, and June (the start of the dry season) accounted for most of the surplus.

American Samoa Rainfall Summary 2nd Quarter 2005

Station		Apr.	May	Jun.	Total	6-month Total
Pago Pago WSO	Rainfall (inches)	14.50	10.78	13.31	38.59	75.32
	% of Normal	130%	103%	224%	152%	114%

Climate Outlook:

Computer forecasts and a consensus of outlooks from several regional meteorological centers indicate that rainfall in American Samoa is likely to be near normal through the winter dry season. Long-range computer rainfall forecasts, however, have only limited skill in the tropical Pacific islands.

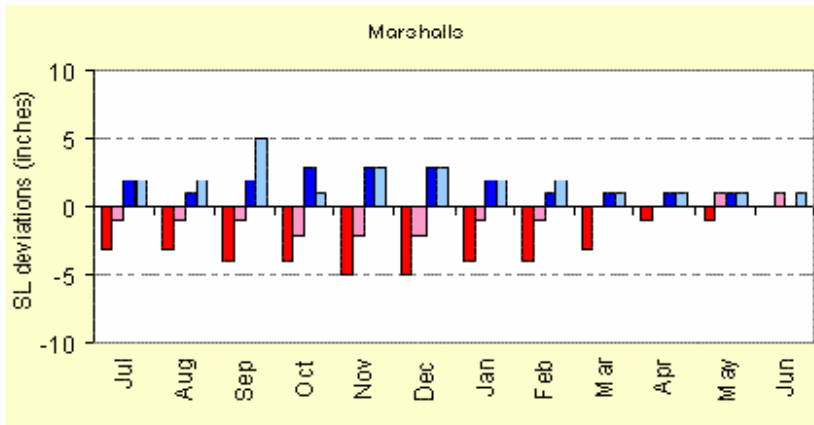
Predicted rainfall for American Samoa from September 2005 through August 2006 is:

Inclusive Period	% of Long-Term Average
Sep - Oct 2005 (Dry Season)	105%
Nov - Dec 2005 (Onset of Rainy Season)	100%
Jan 2006 - May 2006 (Heart of next Rainy Season)	110%
Apr - August 2006 (Next Dry Season)	100%

source: UOG-WERI

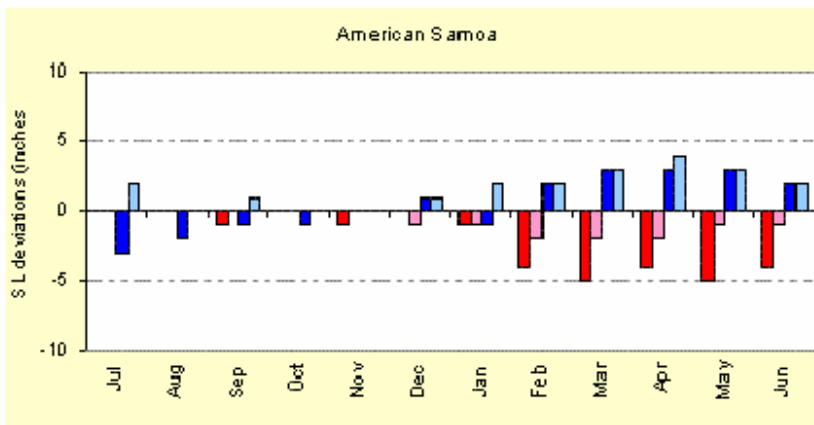
Sea Level Forecast

3b) Average sea level deviations from the monthly normal in the Marshalls during ENSO years.



Red strong El Niño
Pink moderate El Niño
Dark Blue strong La Niña
Light Blue moderate La Niña

3c) Average sea level deviations from the monthly normal in American Samoa during ENSO years.



Sea Level Forecast

http://lumahai.soest.hawaii.edu/Enso/peu/2005_3rd/Sea_Level.htm

Table 2 : Forecasts of sea level deviation in inches (JAS: Jul-Aug-Sep, ASO: Aug-Sep-Oct, and SON: Sep-Oct-Nov)

Tide Station	Gauge	JAS	ASO	SON	*Forcst. quality	* Forecast quality is a measure of the expected CCA cross-validation skill. In general terms, these kinds of forecasts are thought to be of useful skill (or at least fair skill) if the CCA cross-validation value is greater than 0.3 (Fig.4). Higher skills correspond to greater expected accuracy of the forecasts. Skill levels greater than 0.5 are thought to be good, while skill levels greater than 0.6 are thought to be high.
Guam		+4	+3	+2	Good	
Saipan		+3	+3	*	Fair	
Malakal		+5	+5	+4	Good	
Yap		+5	+4	+3	Good	
Pohnpei		+2	+2	+3	High	
Kapingamari		*	*	+2	Moderate	
Majuro		+1	+2	+3	Moderate	
Kwajalein		+2	+2	+2	Moderate	
Pago Pago		*	+1	+1	Good	

Note: For +/-, see notes in Table 1. Any deviations between (0~ ±1) inch is considered as negligible and denoted by *

REMARKS: Deviation of less/above than 2 inches are unlikely to cause any adverse impact. To put in a historical perspective, Yap recorded 6 inches of negative and 7 inches of positive deviations during JAS 1997 and 1998 respectively. Pago-Pago recorded 2.4 inches of positive and 7 inches of negative deviations during the same time period.



Rainfall Prediction

- Developing a consolidated seasonal rainfall forecast with NOAA's Climate Prediction Center and International Pacific Research Center (IPRC)
 - Combines several rainfall forecast models
 - Downscales to individual Pacific Island stations

Contacting PEAC

■ Website

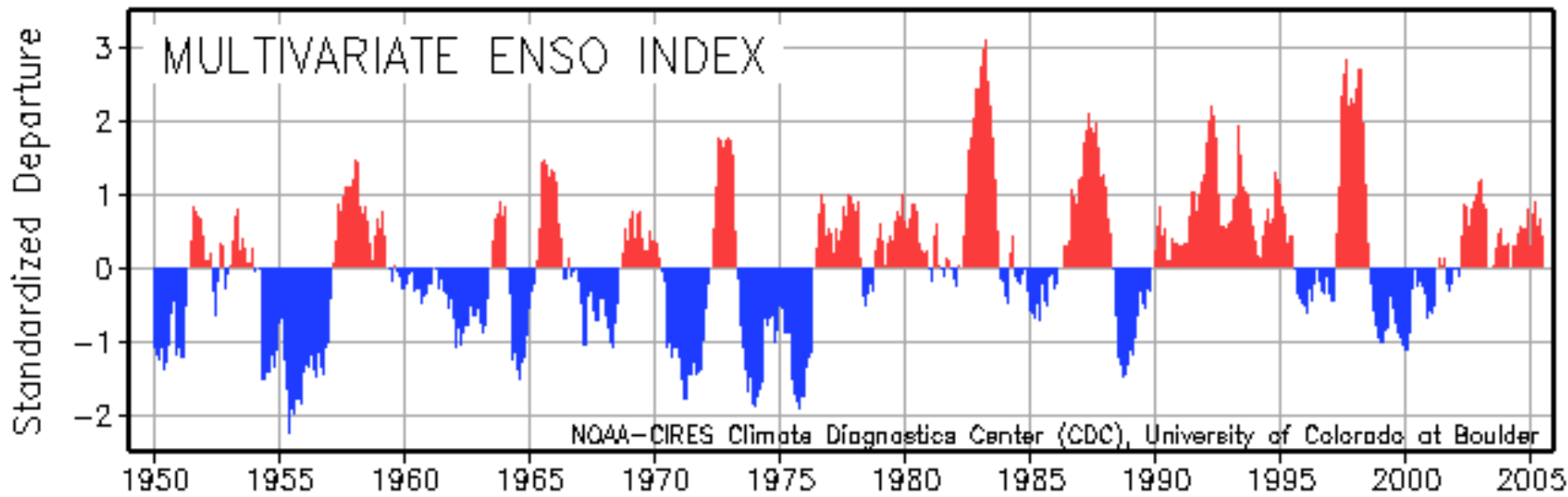
- <http://lumahai.soest.hawaii.edu/Enso/index.html>

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SEASONAL PRECIPITATION FOR PAGO PAGO, AMERICAN SAMOA (mm)

