

Protecting Peru's Precious Ocean and Coastal Resources



Ole Varmer
International Section
Office of the NOAA General Counsel

Overview or Map

- US DOS Foreign Policy
 - Importance of Technical Assistance and Capacity Building
 - US AID
- NOAA's Mission
 - Need for International Cooperation
 - Important Support for DOS US Tech Asst Cap Bldg
- Peru's Precious Ocean & Coastal Resources
- Integrated Coastal Management & Marine Spatial Planning
- Legal Gap Analysis & Recommendations
- Cultural Exchange: What I Shared & Learned

NOAA Mission

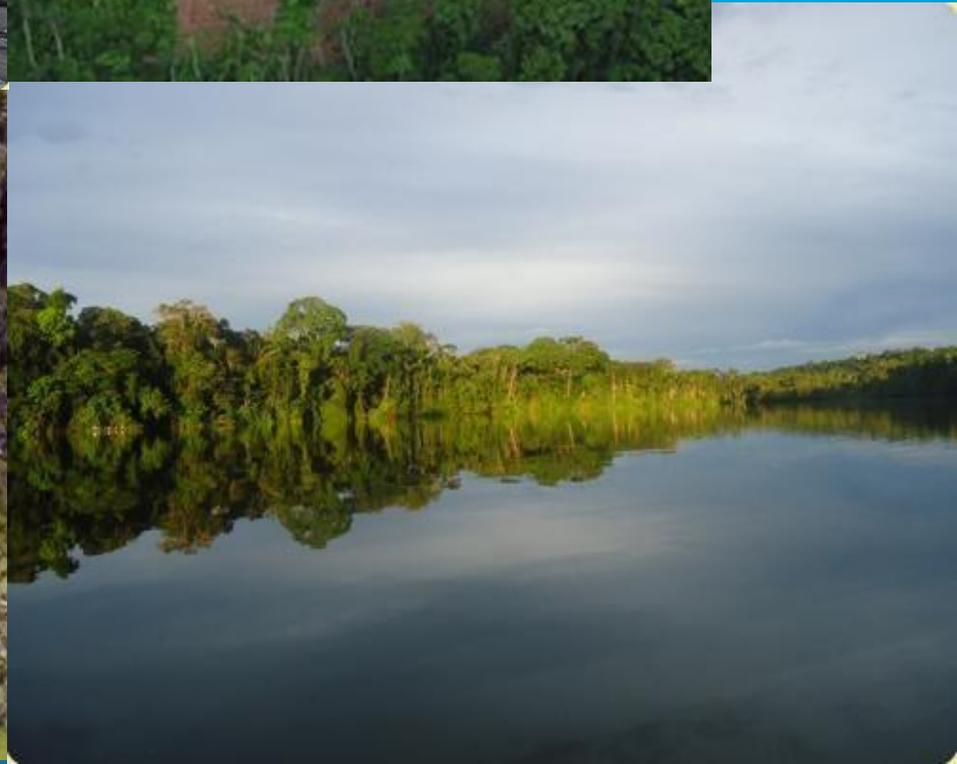
- To understand and predict changes in climate, weather, oceans, and coasts, to share that knowledge and information with others, and to conserve and manage coastal and marine ecosystems and resources.

US DOS Foreign Policy & NOAA

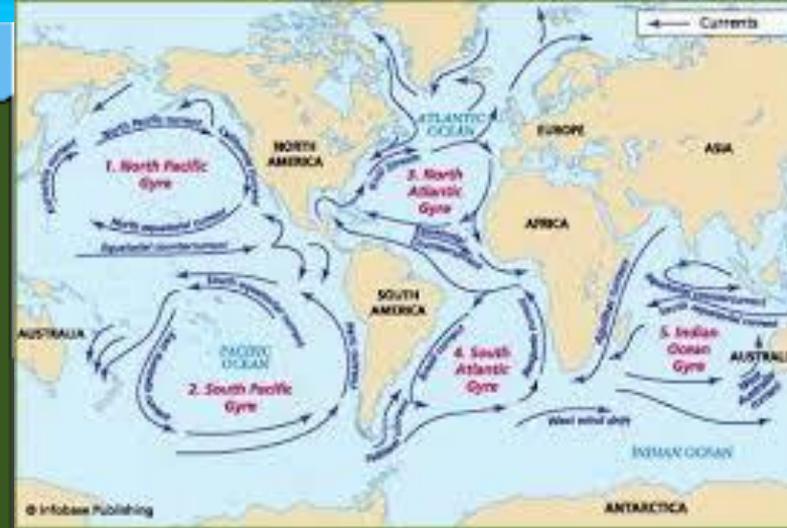
Technical Assistance in Peru

- Importance of Technical Assistance and Capacity Building
- The U.S. (NOAA and U.S. Navy) assisted Peru through the provision of 12 Argo floats to study and monitor the El Nino.
- Global Ocean Observing System(GOOS) for observations, modelling and analysis of marine and ocean variables to support operational ocean services worldwide including Pacific Tsunami Warning System, the Tropical Pacific Observing System (TPOS)and the ARGO program for descriptions of the present state of the oceans, including living resources, continuous forecasts for the future conditions for climate change
- NMFS Workshop on CITES implementation
- NMFS and NOS Marine Spatial Planning
 - Humboldt Current – Ica Region Pilot Program
 - Entire Coast

Highlands & Amazon Rainforest



Peru's Precious Ocean & Coastal Resources





Islas Ballestas

Isla San Gallán

PISCO

San Clemente

Independencia

Candelabro de Paracas

Punta Pejerrey

Punta Paracas

Bahía de Paracas

Paracas

Cordillera Lechuza

Musco

Julio Cesar Tello

Punta Inquillo

Cathédrale

El Playón

Pampa Las Salinas

Punta Gallinaos

Punta Sacasemita

Playa Carhuas

Isla La Vieja

Cordillera de La Virgen

Punta Grande

Punta Caimán

ICA

Panamericana

Ica

ICA

OCEANO PACÍFICO



ICA □	sede regional	ICA departamento
PISCO ⊙	sede de provincia	Ica provincia
Paracas ○	ciudad	- - - - límites de provincia
■	extensión de poblado	⋯⋯⋯ límites de distrito
		— límites de la reserva de Paracas

History and Culture

- Tools Cave Paintings at least 11,000 old - Cities developed 5000 years ago
- Second Oldest Civilization behind Mesopotamia
 - Structures older than the Egyptian Pyramids



Pre-Colonial Civilization

- The Andes rich in natural resources for agriculture and mining; Ocean waters abundant fishing. Agriculture in river valleys
- Vast empire based on trade and service.
- A well-organized state relied on the clever management and refinement of agricultural and mining productivity, a brilliant infrastructure and well-fed manpower.



Fishing

Figura 1: Hemingway en la época dorada de la pesca de altura en Cabo Blanco



Diverse users of the marine area and potential conflicts

- Lack of management of artisanal fisheries
- Growing tourism sector
- Pollution from fish meal processing
- Plans for expansion of existing port facilities
- Oil and Gas Development



NEED FOR PLACE-BASED MANAGEMENT

- Increased demands on the marine environment
- Spatial and temporal mismatches
- Fragmented and mismatched management authorities
- Rapid increase in technology presenting unprecedented uses



Integrated Coastal Management & Marine Spatial Planning

- Inclusive, stakeholder-based process for addressing the incompatibilities in the demands for the use of the coastal and marine environment
- ICZM/MSP- Agenda 21 Rio Declaration
- Challenges include Regulation and Management of Mining, Oil and Gas on Territory vs New Ministry of Environment and interest in ocean marine protected areas

Legal Gap Analysis & Recommendations

- Aim – First, evaluate the current legal framework for the implementation of Marine Spatial Planning in Peru.
- Second, it seeks to support the Ministry of Environment (MINAM) by suggesting a roadmap to consolidate the legal framework that would facilitate the integration of marine spatial planning process for uses in the coastal zone through ICZM and beyond but within Peru's 200 nm and continental shelf.

Recommendations

- Ministerial Resolution MINAM or a Supreme Decree to develop guidelines for the implementation of MSP in Peru, based on the need to coordinate uses set out in the Guidelines on MIZMC.
- New law by Congress on MSP
 - of national interest
 - develop principles
 - require all sectors to be part of the process,
 - clarify its relationship with OT
 - assign clear responsibilities to an entity to lead the process and define mechanisms for coordination

Cultural Exchange: What I Shared & Learned

- Assisting Peru thru US Department of State was exchange of mutual benefit
 - International law framework
 - Case Studies based on US experience
 - Oil and Gas Development in and near MPAs
 - National – State fisheries management
- History, Culture, People, Food and Life Style



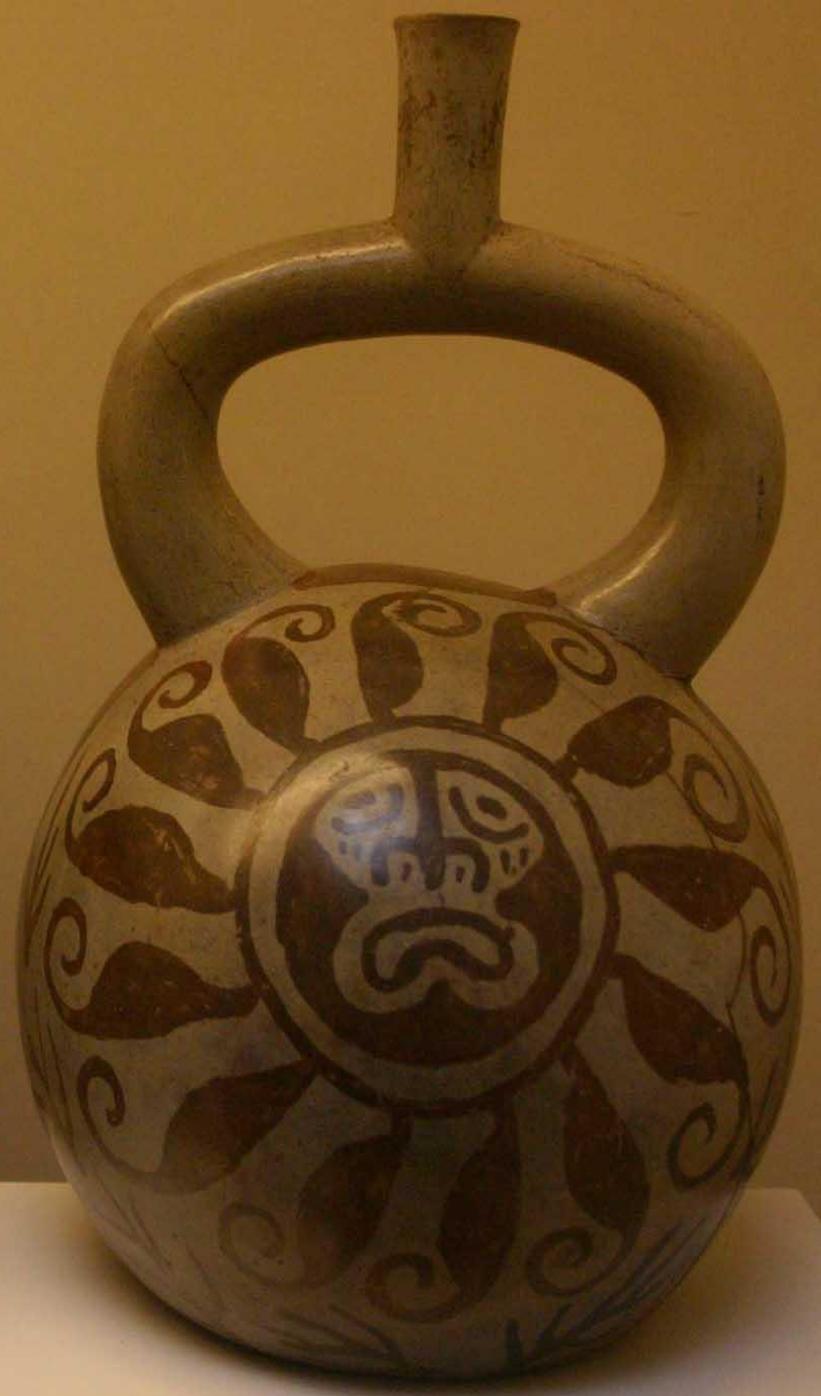
Lima





Lima





Outskirts of Lima







Tuna Band





LUNAHUANA

CARAL



Paracas



Paracas







Arequipa



Mi Casa – home safe home



Home and Garden



Home



