Southeast Pacific Data and Information Network in Support of Integrated Coastal Area Management (SPINCAM) (IOC-UNESCO/Flanders/CPPS)

Julián Reyna Moreno
General Secretary of CPPS
• Designed to establish an integrated coastal area management (ICAM) **indicators framework** in the countries of the Southeast Pacific (Chile, Colombia, Ecuador, Panama and Peru)

• Executed through the IOC/UNESCO) with the financial support of the Government of Flanders and the coordination of the Permanent Commission for the South Pacific (CPPS).
Project Outcome:

- Technical and managerial capacity for the development of indicators based reports (State of the coast report for decision makers/civil society), including their spatial representations, within the framework of existing national and regional ICAM programmes.
Coordination

- Steering Committee (evaluation / planning)
  - Project Coordinator (CPPS)
  - 5 National Focal Points
  - ODINCARSA Regional Representative
  - Data Management
  - ODINCARSA Regional Representative
  - Information Management
  - Flanders Representative
  - IOC/UNESCO Representatives (IOCARIBE Secretariat, IODE and ICAM)
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<table>
<thead>
<tr>
<th>Countries</th>
<th>Flag Image</th>
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</thead>
<tbody>
<tr>
<td>Chile</td>
<td><img src="image1" alt="Chile Flag" /></td>
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<tr>
<td>Colombia</td>
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<tr>
<td>Perú</td>
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</table>
First phase (2008-2012) (i)

- Institutional arrangements for data sharing and compiling
- National indicators (as established by countries)
  - Types:
    - Political and Governance.
    - Ecologicals.
    - Socioeconomics.
- Regional indicators:
  - Population density
  - Coastal and Marine Protected Areas
  - Water Quality
  - Biodiversity
  - Coastal management instruments
Proyecto SPINCAM

Formation

Indicators
- Population
- Coastal water quality
- Biodiversity
- Coastal management plans

Nationals Atlas

Atlas and regional indicators

Networks and cooperation

www.spincamnet.net
Regional Geoportal (i)

- Graphic representation of indicators
- Integration with marine biodiversity information
- Technical information
  - WebGIS: Mapserver + Javascript + open access base maps
  - Database: POSTGRESOL
  - Server: LINUX CENTOS 5

http://190.95.249.246:8080/geoPortalCPPS/geovisor/index.html

Visit our website! www.spincamnet.net (Atlas section)
Regional Geoportal (ii)
Regional Geoportal (iii)
SIBIMAP Contains

- Four modules: cetaceans, sea turtles, MCPA, and sharks (in progress)
- Georeferenced information
- Ecological/biological information
- Bibliographic references
- Digital repository

www.sibimap.net
Id Referencia: A00397
Migration to Smartatlas
New data layers (i)
New data layers (ii)
Second Phase (2013-2016)

Objective:
To support the development of decision-making tools and implementation of **ICAM** through improved data and information management capacity, knowledge, communication and networking at national and regional level.
Work Packages

• WP1 Project Management
• WP2 Atlas and technology assessment
• WP3 Stakeholder engagement
• WP4 Data & Information management
• WP5 System design & development
• WP6 Capacity development
• WP7 Communication and outreach
Courses and workshops (2013)

• IX University Expert Course on Geographic Information Systems. Palos de la Frontera, Huelva, Spain (22 April-28 June 2013)

• Course to establish the South Pacific Ocean Data Portal Network. Buenos Aires, Argentina, October 2013 (CPPS/COI-UNESCO/IODE/ODINCARSA)

• Workshop on indicators, data management and visualization options. Santa Marta, Colombia 2-4 December 2013 (experts from ICAN, CMA, CLME)

• SPINCAM II Steering Committee Meeting Reunión del Comité Directivo SPINCAM II, Santa Marta, Colombia 4 December 2013
New regional indicators (i)

• **Socio-economic (led by PA)**
  – Number of inhabitants with employment and number of inhabitants unemployed by economic activity and coastal districts.
  – Public and private investment in infrastructure by coastal district in US $/year
  – Gini coefficient by country and year
### New regional indicators (ii)

#### Key coastal-marine ecosystems

<table>
<thead>
<tr>
<th>ECOSYSTEM</th>
<th>Colombia</th>
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<td>Macroalgae meadows</td>
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New regional indicators (iii)

- **Coastal Vulnerability**
  - Population affected by coastal extreme events
    - Effects of climate change: El Niño / La Niña
    - Coastal erosion
New regional indicators (iv)

• **Total floating population in coastal tourist sites**
  – Total number of tourist overnight in hotels and lodges, second home, family or friends, per day.

• **Net migration rate in coastal cities**
  – Number of people who have moved to coastal cities in the last 5 years
New regional indicators (v)

- Coastal infrastructures
  - mariculture (ha)
  - port facilities (ha)
  - maritime-fishing facilities (ha)
New regional indicators (vi)

- **Sustainability of traditional fishing**
  - Number of artisanal fishermen by port
  - Effort: length (m) of artisanal vessels by port
  - Total landings by port
  - Types of gear by artisanal fishing port
  - Catch composition: proportion of the 5 species for direct human consumption by port
  - Number of endangered species in the catch
Challenges

• Place institutional arrangements at national level
• Mainstreaming SPINCAM within planning and budget of national institutions
• Administrative arrangements for money reception
• Agree on standards for data and formats
• Indicators respond to national/regional needs for decision making
• Appropriated messages at different levels of decision making
• Indicators updated in the long term
Synergies with CMA and CLME+ (i)

• Our lessons learnt on:
  – Definition of data standards
  – Establishment of a regional spatial data infrastructure
  – Definition and implementation of national and regional indicators
  – Main problems found training the wrong technicians
Synergies with CMA and CLME+ (ii)

• Our common challenges:
  – Involvement of SPINCAM countries (CO & PA) in CMA2
  – Join efforts to provide training in Spanish in those topics of common interest
  – Linking our atlases and exchange of good practices at national and regional level to support coastal and marine management and planning in the context of the CLME.
Proyecto SPINCAM
Red de Información y Datos del Pacífico Sur en apoyo a la Gestión Integrada de Áreas Costeras

www.spincamnet.net

Síguenos en:
Thank you