

Integration of Marine-related Data and Information for Integrated Ocean Management

**Hiroshi Terashima
Executive Director
Ocean Policy Research Foundation**

**8 December 2011
International Symposium on
Integration of Marine-related Data and Information**

21st Century: The Threshold of a New Ocean Era

Latter half of the 20th Century

- **Dramatic rise of world's population**
- **Indiscriminate exploitation of marine resources**
- **Resource depletion and environment degradation**
- **Rapid and unplanned development of coastal areas**



Establishing Legal and Policy Frameworks for Ocean Governance

Adoption of UNCLOS and Agenda 21

UN Convention on the Law of the Sea

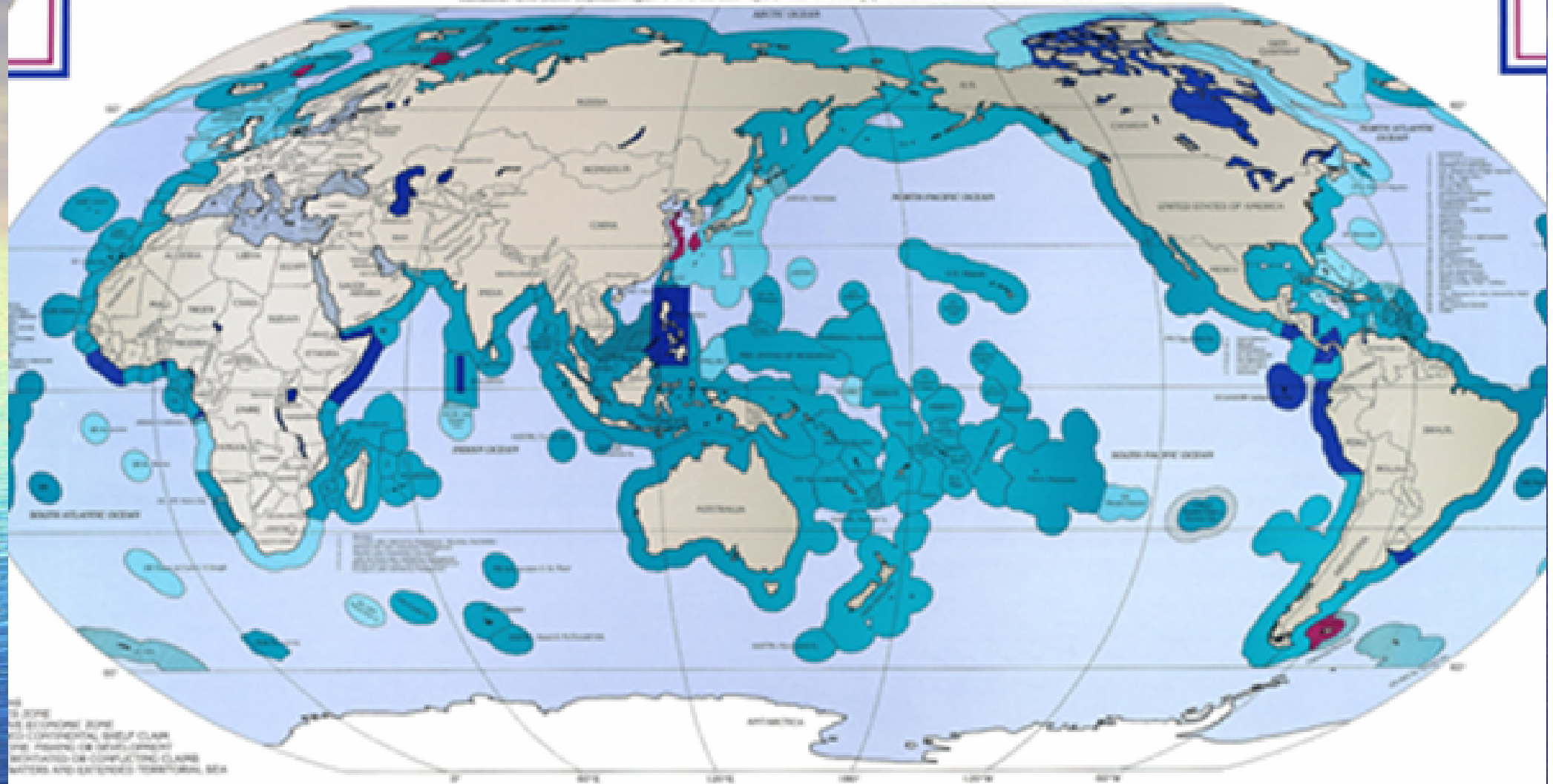
Adopted in 1982 and came into effect in 1994

- **The Problems of Ocean Space are closely interrelated and need to be considered as a whole**
- **Twelve mile territorial waters**
- **The archipelagic regime**
- **200 mile Exclusive Economic Zone**
- **Continental Shelf system**
- **“Area--common heritage of mankind” system**
- **Protection and preservation of marine environment**
- **Marine scientific research**
- **Development and transfer of marine technology**
- **Settlement of disputes**

Maritime Claims and Marine Scientific Research Jurisdiction

Based on: *World Map of Marine Claims*

International Marine Science Cooperation Program • 1992 Sea-Grant Program • World Map of Marine Claims • World Map of Marine Claims • World Map of Marine Claims



1. The map shows the extent of maritime claims made by various countries. The map is based on the latest available data and is subject to change as new claims are made or existing claims are revised.

2. The map is a simplified representation of the world's oceans and is not intended to be a legal document. It is based on the latest available data and is subject to change as new claims are made or existing claims are revised.

3. The map is a simplified representation of the world's oceans and is not intended to be a legal document. It is based on the latest available data and is subject to change as new claims are made or existing claims are revised.

4. The map is a simplified representation of the world's oceans and is not intended to be a legal document. It is based on the latest available data and is subject to change as new claims are made or existing claims are revised.

Marine Scientific Research

States and competent international organizations

- shall promote and facilitate the development and conduct of marine scientific research in accordance with this Convention.**
- shall, in accordance with the principle of respect for sovereignty and jurisdiction and on the basis of mutual benefit, promote international co-operation in marine scientific research for peaceful purposes**

Marine scientific research

- should receive the consent of the coastal State**
- should arrange on-board participation of scientists from coastal States**
- should provide coastal States with reports, data, samples, final results, and conclusions**

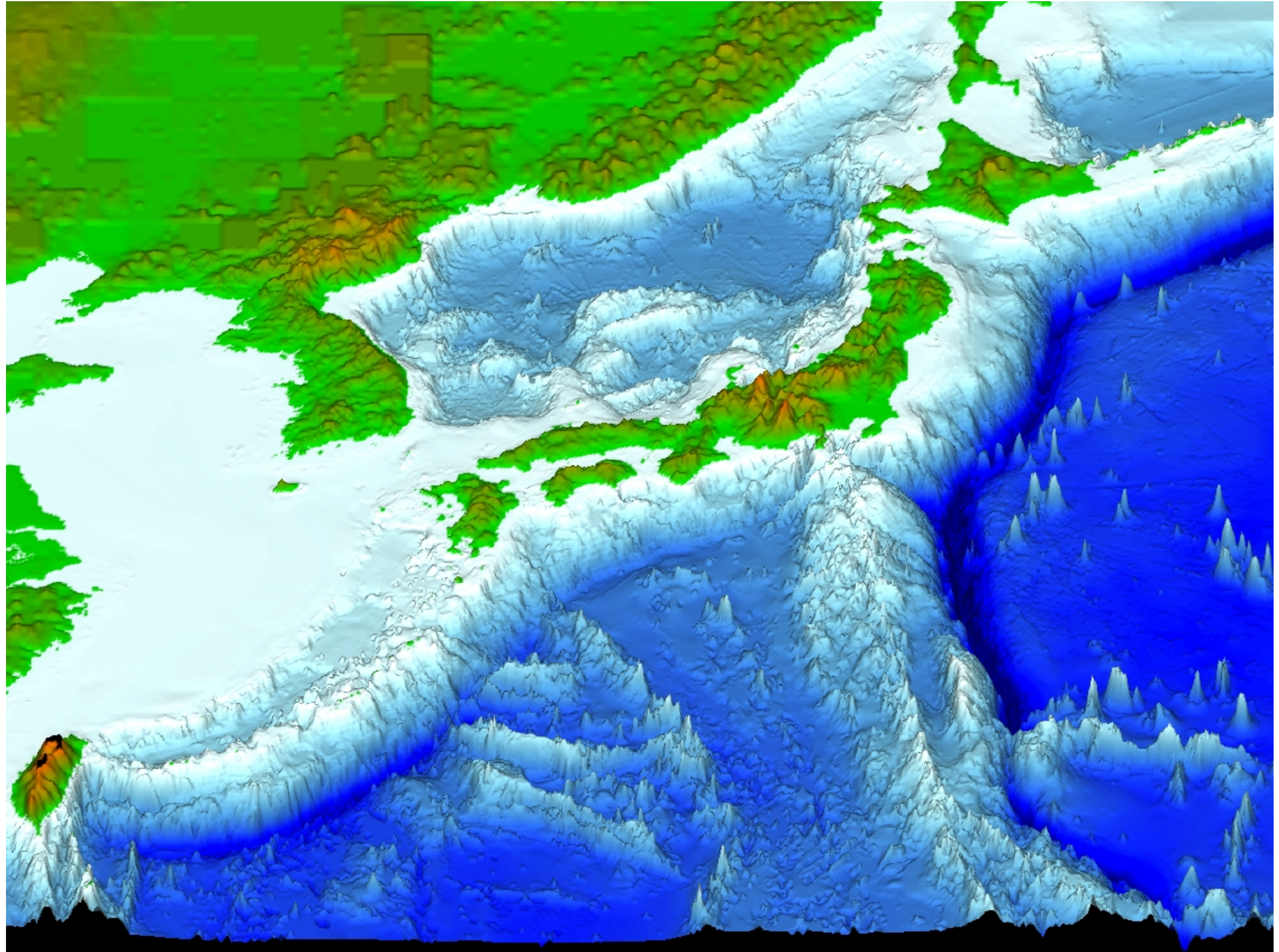
A Policy Framework on the Ocean Governance:

Chapter 17 of Agenda 21

- the Rio Earth Summit, in 1992, adopted “Sustainable Development” principles
- Chapter 17 of Agenda 21, program of action for SD is a policy framework on Ocean Governance
- Coastal States commit themselves to integrated management and sustainable development of coastal areas and marine environments under their national jurisdiction.
- To this end it is necessary to provide for an integrated policy and decision-making process, including all involved sectors, to promote compatibility and a balance of uses.
- States commit themselves to prevent, reduce and control degradation of the marine environment so as to maintain and improve its life-support and productive capacities
- States commit themselves to improve the understanding of the marine environment and its role on global processes

Challenges in Implementing the UNCLOS/Agenda 21 Framework

- Marine pollution over increasingly wider areas
 - Conservation of Biological Diversity , Sustainable management of marine biological resources and proper control on IUU fishing
 - Increase in transnational crimes at sea,
 - Disputes over border delimitations, etc
- ↓ ↓
- Harmonization between the UNCLOS/Agenda 21 regime and implementation by individual states is necessary



Recent Japanese Initiatives on Ocean Governance and Marine-related Data and Information

- **Enactment of Basic Act on Ocean Policy (2007)**
- **Adoption of Basic Plan on Ocean Policy (2008)**

Chapter 2: 6 Promotion of Marine Surveys

(1) Steady Implementation of Marine Surveys

**(2) Collection and Compilation of Basic Information
necessary for the Management of the sea**

(3) Integration of Marine-related Information

(4) International Coordination

- **Act on the Preservation of Low-Water Line and the Development of Basic Infrastructure of Remote Islands for the Maintaining and Promoting Utilization of the Exclusive Economic Zone and the Continental Shelf**
- **Marine cadastre maintenance**



Recent Initiatives on Coastal and Ocean Management

Appearance of a number of new initiatives on:

- **Marine Protected Areas**
- **'Satoumi'**
- **Integrated Coastal Management**
- **Collaboration between scientists and fishermen**
- **Marine Spatial Planning**
- **Networking**
- **Capacity-building**



Thank you for your attention

Hiroshi Terashima
Executive Director
Ocean Policy Research Foundation