The UN architecture for ocean science and ocean governance

Dr. Luis Valdés

Instituto Español de Oceanografía Centro Oceanográfico de Santander-Spain

25 Years of PICES: Celebrating the Past, Imagining the Future

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Cultural Organization







RIO+20 United Nations

Conference on

Sustainable









The World Bank









UN-DOALOS OF







GLOBAL PARTNERSHIP FOR OCEANS























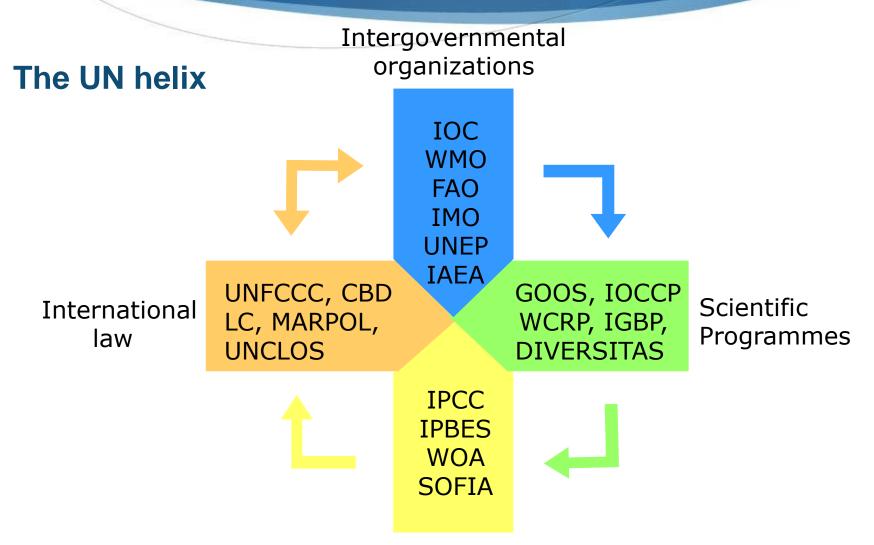


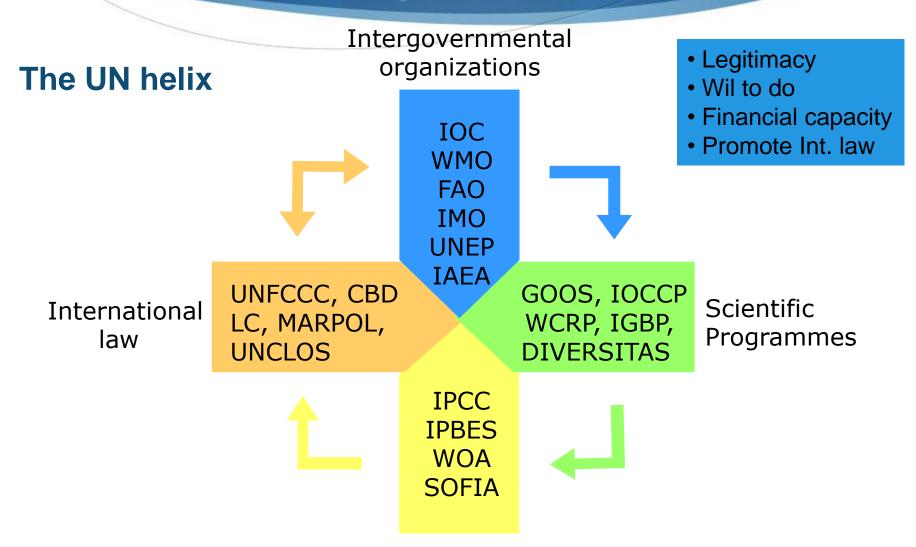












Intergovernmental organizations The UN helix IOC WMO FAO IMO **UNEP IAEA** UNFCCC, CBD GOOS, IOCCP Scientific International LC, MARPOL, WCRP, IGBP, Programmes law **UNCLOS DIVERSITAS IPCC** Legaly Binding Frameworks and agendas **IPBES** WOA Targets SOFIA



The UN helix





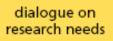
World Climate Research Programme



Objective: Determine predictability of climate and effect of human activities



Strategy: to facilitate analysis and prediction of Earth system variability and change, for use in an increasing range of practical applications of direct relevance, benefit and value to society increasing published knowledge on the basis and predictions of climate change







Intergovernmental Panel on Climate Change **IPCC** Working Group I: Physical Basis for Climate Change

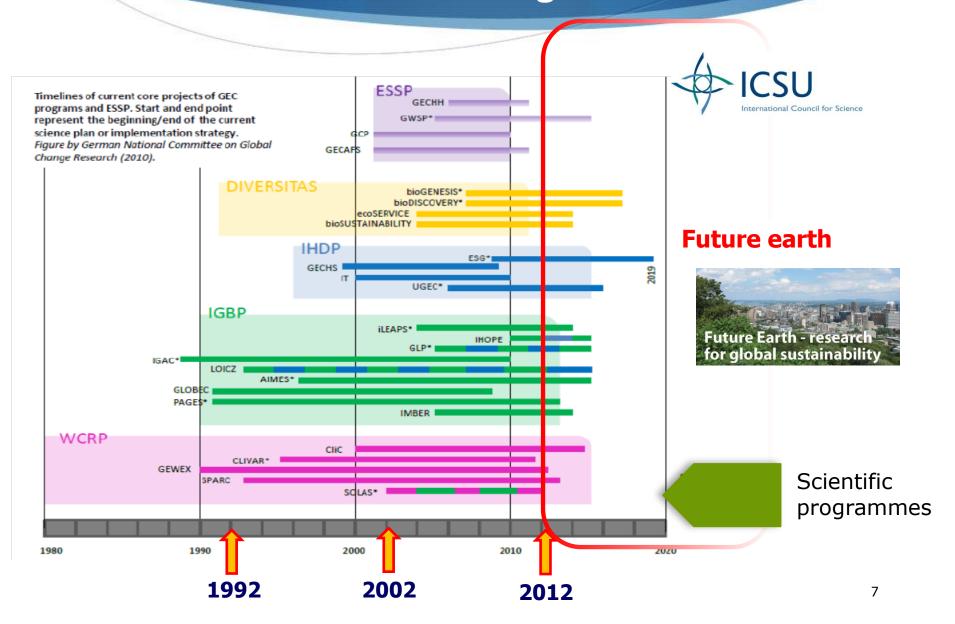
91% of coordinating authors, 66% of lead authors were WCRP scientists





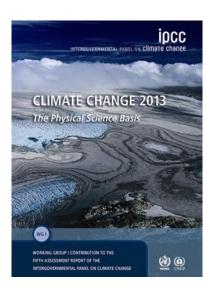
UN Framework Convention on Climate Change

Research programmes after Rio 92 and Johannesburg 02



UN science-policy interfaces

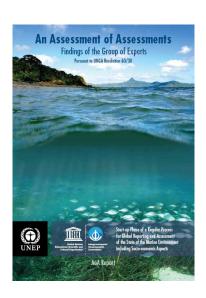
Climate Change



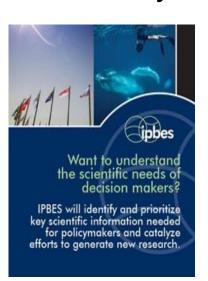
Fisheries & Aq.



Ocean state



Biodiversity



AR5



SOFIA WOA IPBES

UN Oceans



Integration with other UN Activities

UN-OCEANS



GESAMP



UN Oceans

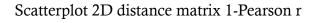


Table 1: Areas of activity declared by the UN-Ocean organizations in 2014

	IOC- UNESCO	WMO	FAO	UNEP- CBD	UNDP	IMO- WMU	IAEA	UNHCR	UNCTAD	DOALOS- ISA	UN DESA
Sustainable development											
Science											
Marine environment											
Marine biodiversity											
Fisheries											
Exploitation non- living resources											
Cables & pipelines											
Marine safety & security											
People at sea and education											
Underwater cultural heritage											

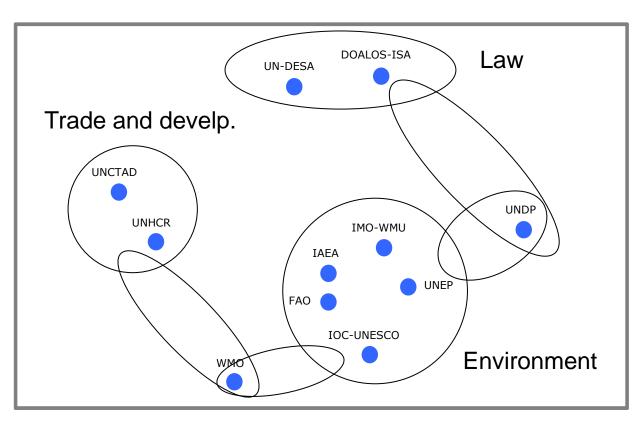
UN Oceans





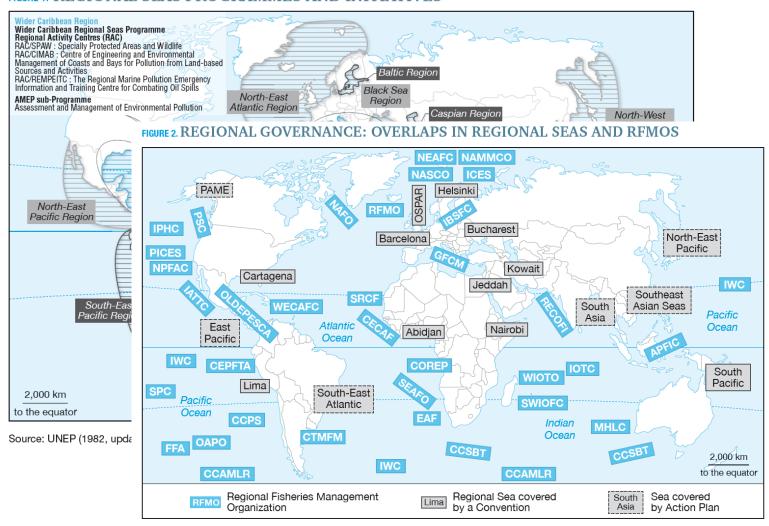






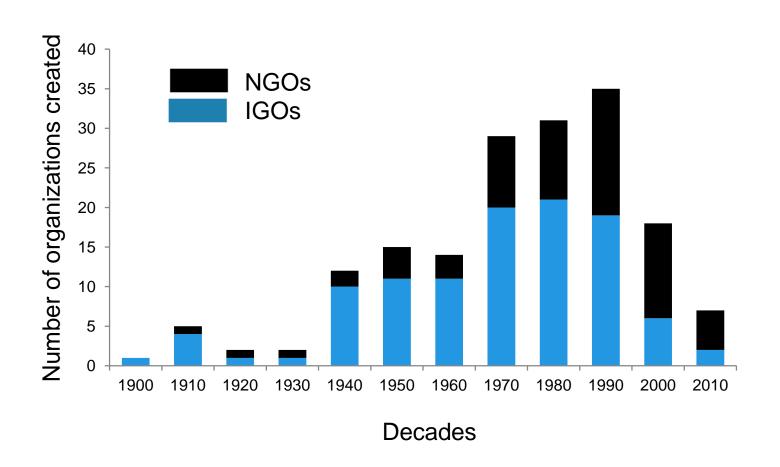
UN Regional seas and governance

FIGURE 1. REGIONAL SEAS PROGRAMMES AND INITIATIVES



Source: FAO (2009); UNEP (1982, updated 2010)

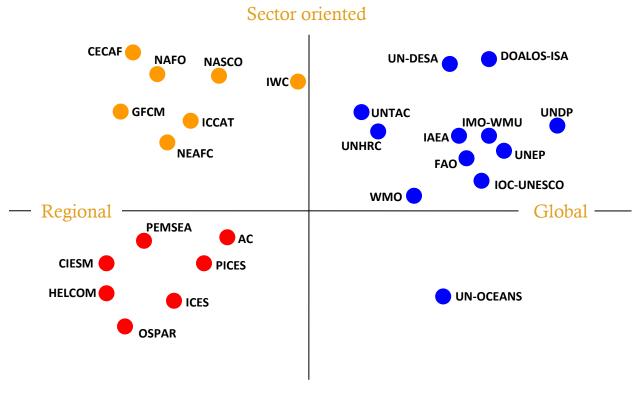
IGOs and transnational NGOs



Who speak on behalf of the Ocean

Mapping Ocean Governance

Intergovernmental organizations (not exhaustive)



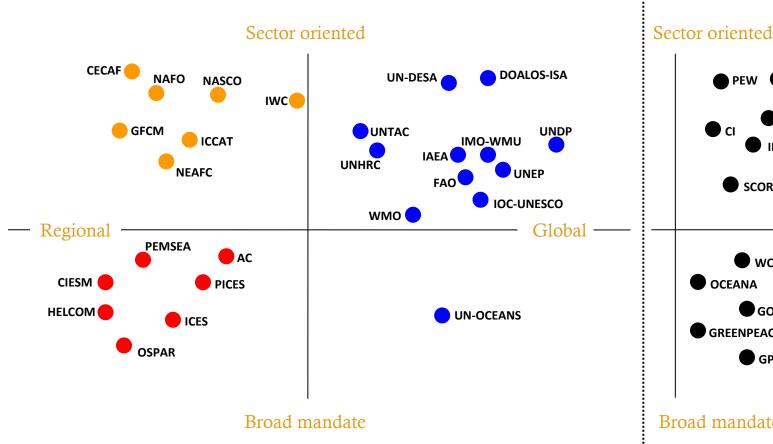
Broad mandate

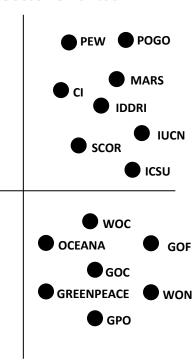
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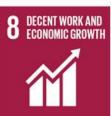


































7 political/environmental targets plus a, b and c

14.a Increase scientific knowledge, develop research capacity and transfer marine technology, taking into account the Intergovernmental Oceanographic Commission Criteria and Guidelines on the Transfer of Marine Technology, in order to improve ocean health and to enhance the contribution of marine biodiversity to the development of developing countries, in particular small island developing States and least developed countries

Economy

Investing in new opportunities, innovation & sustainable activities



Society

Promoting well-being & equal access to services & resources



Environment

Preserving ecosystems and their potential



Science

knowledge, common understanding & an integrated vision

Space equity

Developing geographical balance in access & use of marine resources



Time equity

Managing the means of subsistence for inhabitants of today & generations to come



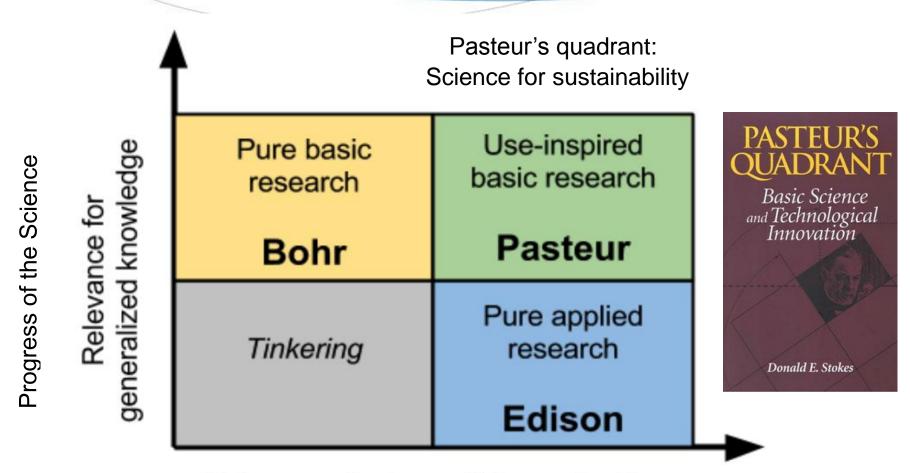
Policy making

Fostering good ocean governance

BLUE SOCIETY

Oceans of new opportunities for all

No Science= No Sustainability



Relevance for immediate applications

Social utility

Stokes D. E. 1997.

Pasteur's Quadrant: Basic
Science and Technological
Innovation.

Take home messages ... for the UN and for us

- Many ocean entities at the UN system are part of higher structures, sector-oriented and therefore fragmented leaving little room for integral approaches within the whole UN system. The paradigm is that the UN preference for a sector-by-sector approach to marine management cannot sustain marine ecosystems as a whole.
- The UN system can no longer continue to be seen as a discrete authority on oceans and coastal issues, the current fragmentation and the lack of an overarching and operational body with a common voice is a weakness for an architecture that otherwise counts with the most necessary elements (authority, law, research and science-policy interface processes).
- There is an urgent need for an intergovernmental organization within the UN with a global technical mandate, global coverage and with the legitimacy and authority to speak with one voice on behalf of the ocean.
- Efficient marine policy innovation requires leadership and the political will to strength the role of a central organization in planning, management, and programmatic development (with its own staff and budget). At present there is not such organization.

Take home messages ... for the UN and for us

- At present there is a lack of an international and interdisciplinary scientific programme mobilizing the marine scientific community in a common spirit and goal.
- The SDG 14 for the ocean provides foundation for a better integration of international science and environmental governance and the UN should use it as a platform to launch an international scientific programme for the ocean.
- However the rigid top-down structure and decision making process in the UN system makes it difficult to make real progress in this direction. In this regards other Intergovernmental organizations, with a more flexible structure, are legitimated to take the lead and launch a programme for a deeper scientific knowledge of the ocean.

Thank you very much for your attention!

