



United Nations
Educational, Scientific and
Cultural Organization

Organisation
des Nations Unies
pour l'éducation,
la science et la culture

Organización
de las Naciones Unidas
para la Educación,
la Ciencia y la Cultura

Организация
Объединенных Наций по
вопросам образования,
науки и культуры



Intergovernmental
Oceanographic
Commission

Commission
océanographique
intergouvernementale

Comisión
Oceanográfica
Intergubernamental

Межправительственная
океанографическая
комиссия

XXVII Assembly, Paris, 26 June – 5 July 2013

Agenda item 3.2

Report of the Executive Secretary on Medium Term Strategy (2008 - 2013) and Programme Implementation (2012 – 2013)

Wendy Watson-Wright
Executive Secretary



Setting the Scene

- Assessing out past Medium Term Strategy (MTS - 2008-2013)
- Charting our future - MTS 2014-20121
- Reduced budget and personnel
- Rethinking our priorities

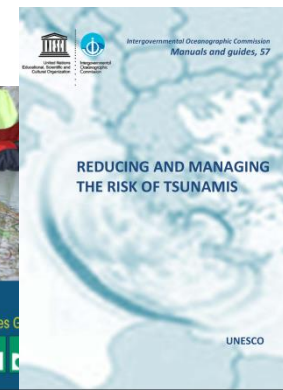
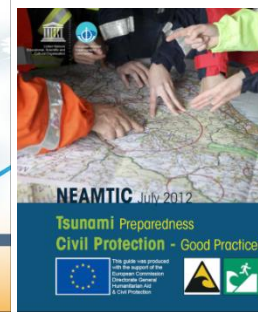
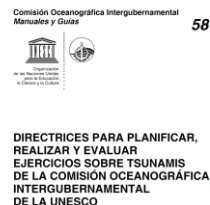




Main Achievements of the Medium Term Strategy (2008-2013)

HLO 1: Prevention and reduction of the impacts of natural hazards

- Six national tsunami warning centres established - three in the Indian Ocean and three in the NE Atlantic and Mediterranean region
- More than 60 workshops on hazard management, Standard operating procedures, coastal inundation modeling
- Manuals and technical documents in various languages



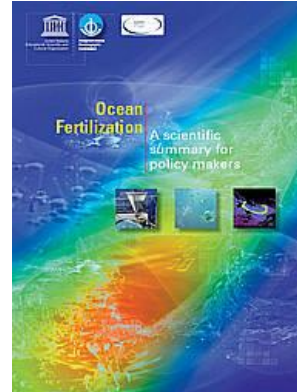
HLO 1: Prevention and reduction of the impacts of natural hazards

- Number of sea level stations contributing real time data to the Global Sea Level Observing System (GLOSS) Data Centres increased from 80 (2008) to 710 stations



HLO 2: Mitigation of impacts and adaptation to climate change and variability

- International Ocean Carbon Coordination Project (IOCCP) helped improve comparability of ocean carbon
- IOCCP Surface Ocean CO₂ database (SOCAT) reached 6.3 million surface water CO₂ data in 2012
- IOC worked with IOCCP, NOAA, etc. for an International Ocean Acidification Observing System.
- Two publications:
 - Ocean Acidification Scientific Summary for Policy Makers in English, Spanish, French, &
 - Scientific Summary for Policy Makers on Ocean Fertilisation (2011)
- World Climate Research Programme



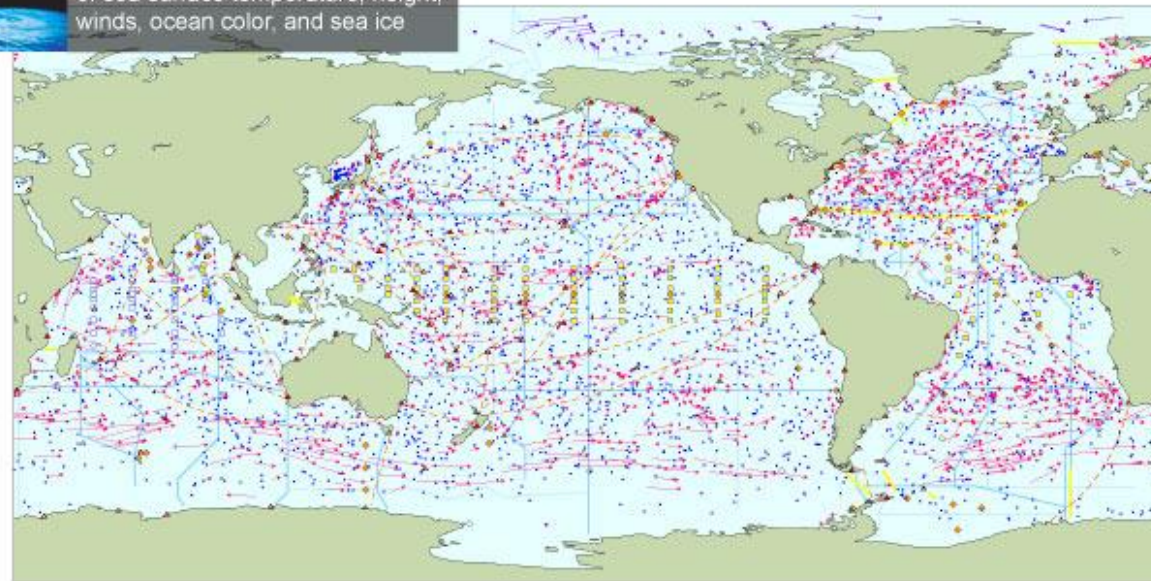
HLO 2: Mitigation of the impacts of, and adaptation to, climate change and variability



continuous satellite measurements of sea surface temperature, height, winds, ocean color, and sea ice

Total *in situ* networks **61%**

April 2013



Transport monitoring

48%

29 sites



34%

Global time series network



58 moorings planned



56% **Global tropical moored buoy network**



119 moorings planned



100%

Surface measurements from volunteer ships (VOS)

250 ships in VOSclim pilot project



75%

Global drifting surface buoy array

5° resolution array; 1250 floats
ice buoys



66%

Tide gauge network (GCOS subset of GLOSS core network)

170 real-time reporting gauges



81%

XBT sub-surface temperature section network

51 lines occupied



100%

Argo profiling float network

3° resolution array; 3000 floats



62%

Repeat hydrography and carbon inventory

Full ocean survey in 10 years

Representative milestones



original goal for full implementation by 2010

System % sustained, of initial goals



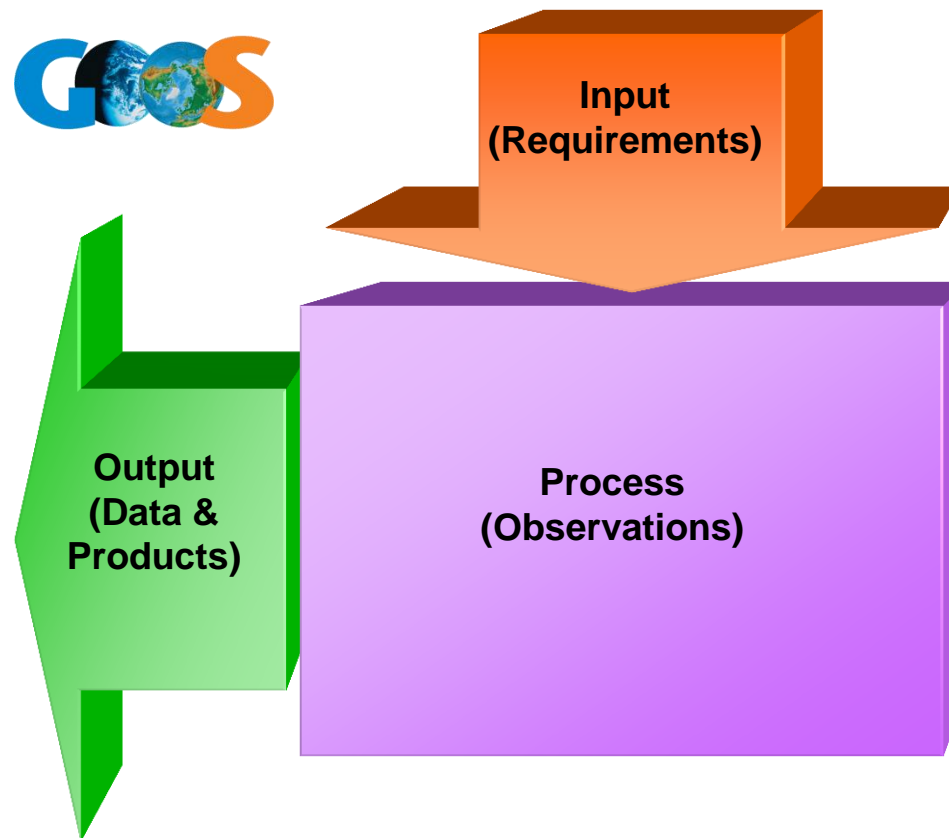
HLO 2: Mitigation of the impacts of, and adaptation to, climate change and variability

JCOMMOPS: observing network technical coordination



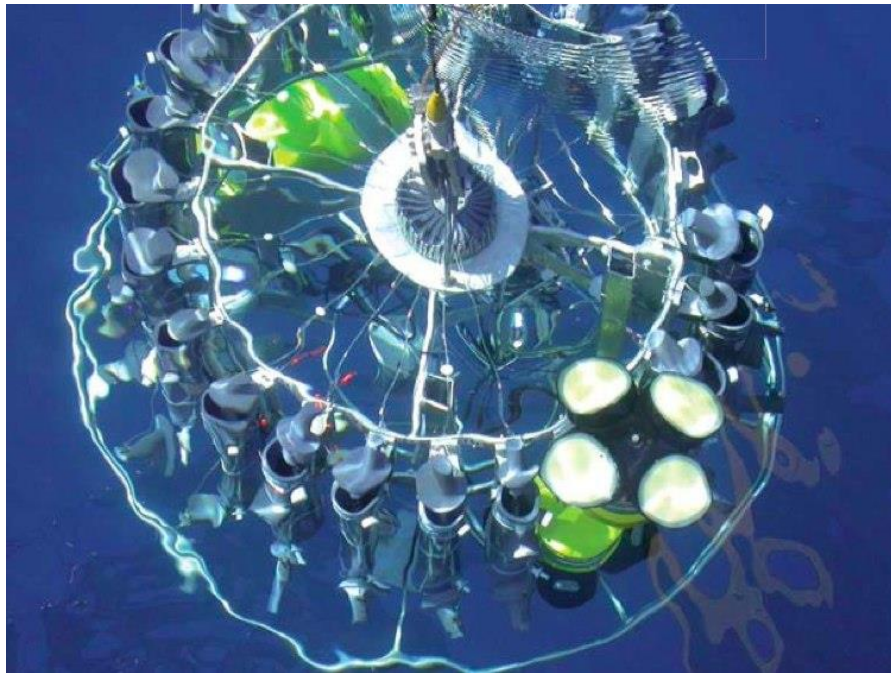
HLO 2: Mitigation of the impacts of, and adaptation to, climate change and variability

GOOS restructuring:
Framework for Ocean Observing



HLO 2: Mitigation of the impacts of, and adaptation to, climate change and variability

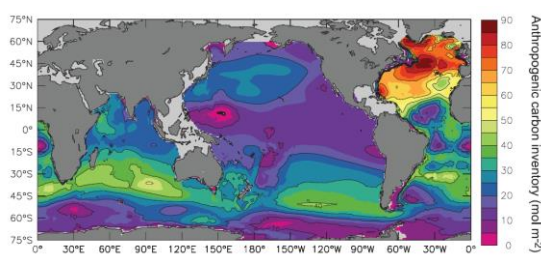
TEOS-10: International Thermodynamic Equation for Seawater



SCOR – IAPSO – IOC

HLO 2: Mitigation of impacts and adaptation to climate change and variability

- Adaptation to Climate Change in Coastal Zones (ACCC) in Africa - Senegal, Mauritania, Cape Verde, the Gambia, Guinea Bissau
- GLOBEC, the Global Ocean Ecosystem Dynamics, a joint programme (SCOR-IGBP-IOC) - community of practice of 1800 scientist, 3000 papers, 25 countries
- International Symposia on the Effects of climate Change on the World Oceans



HLO 2: Mitigation of impacts and adaptation to climate change and variability

- IOC Project Office for IODE - creation of a global technical training centre
- OceanTeacher Academy - one thousand students from over one hundred Member States - online course materials - digital library
- UNESCO, through IOC's efforts accredited as Multilateral Implementation Entity (MIE) to the Climate Change Adaptation Fund



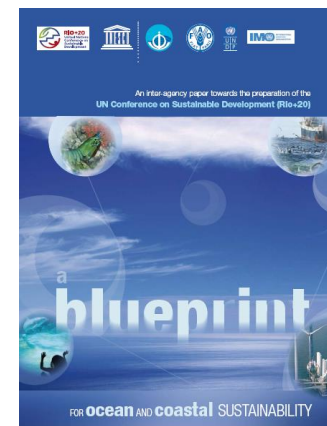
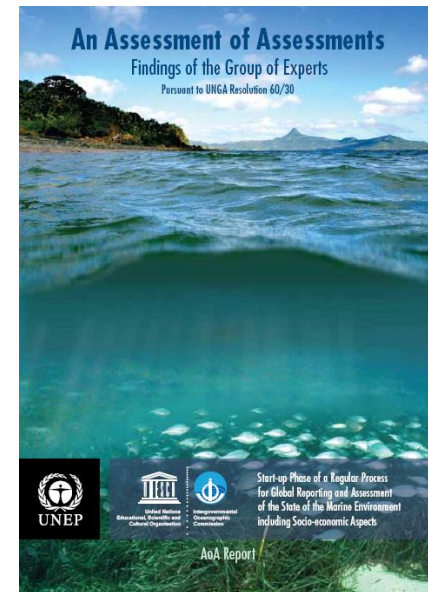
HLO 3: Safeguarding the health of ocean ecosystems

- IOC published the Guide “Marine Spatial Planning: a step-by-step approach toward ecosystem-based management (2009). – 6 languages
- Harmful Algal Blooms (HAB) IOC focused on providing guidance and coupling recent findings with improved management
- ODINAFRICA-IV brought together 40 marine related institutions from 25 countries in Africa
- Ocean Biogeographic Information System (OBIS), the world's largest global online open-access database on biodiversity of marine life



HLO 4: Management procedures & policies leading to sustainability of coastal & ocean environment & resources

- Rio+20 Conference; UNSG's Oceans Compact
- Assessment of Assessments (AoA) report - an international reference in the field of environmental assessment and science-policy interface



RIO+20
United Nations Conference
on Sustainable Development



HLO 4: Management procedures & policies leading to sustainability of coastal & ocean environment & resources

- Launching of IOCAFRICA; IOC Regional Training and Research Centre on Ocean Dynamics and Climate (ODC) in China; Caribbean LME adoption of EBM
- Capacity Development: Leadership, bid-writing and Decision Support Tools Workshops in different regions involving 23 countries



IOC 50th Anniversary



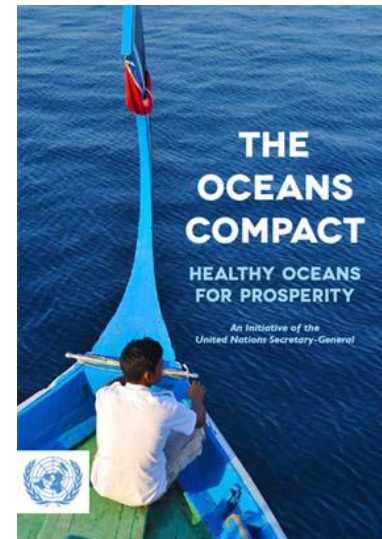


Report on Programme Implementation (2012-2013)

Report on Programme Implementation (2012-2013)

Participation in UN consultations and coordination

- Rio+20
- UNSG's Oceans Compact



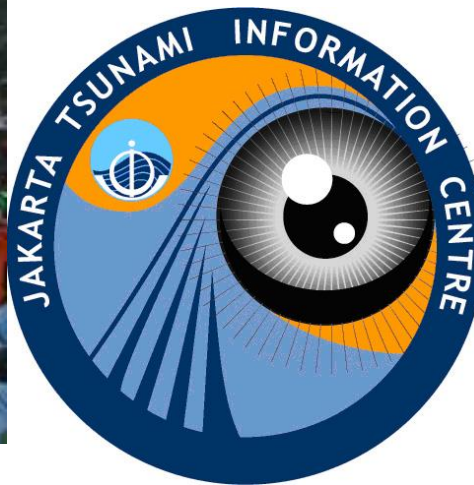
Subsidiary Bodies

- IOCAFRICA
- IOCARIBE
- WESTPAC



HLO1: Prevention and reduction of the impacts of natural hazards

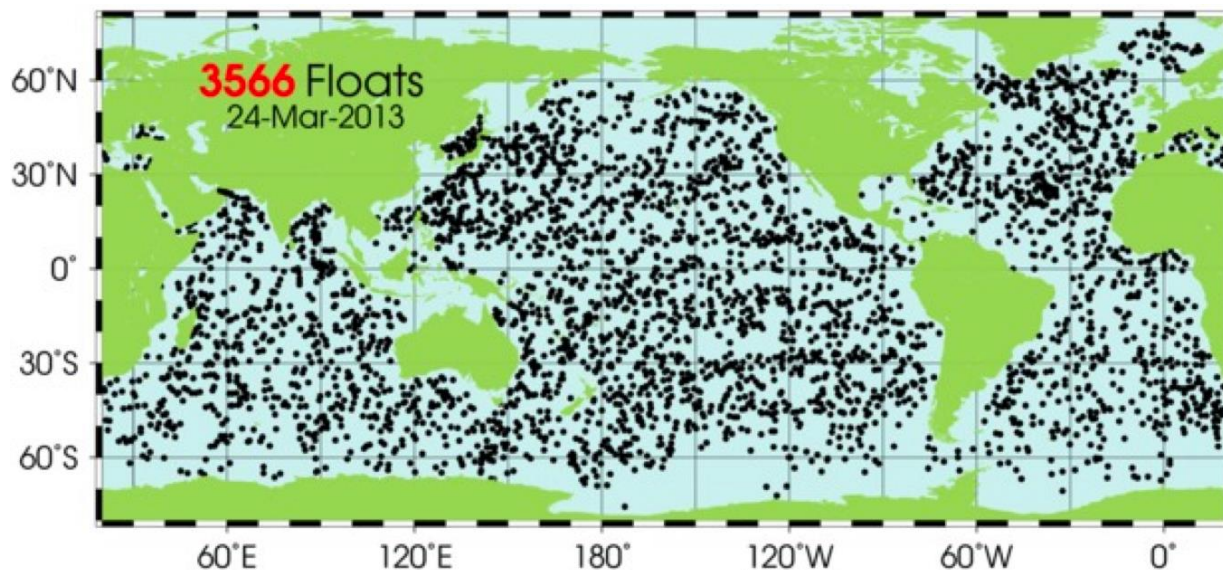
- Tsunami Intergovernmental Coordination Group
- Communication and tsunami exercises
- Tsunami information centres
- Training and capacity development
- Japan-UNESCO/UNU Symposium on The Great East Japan Tsunami



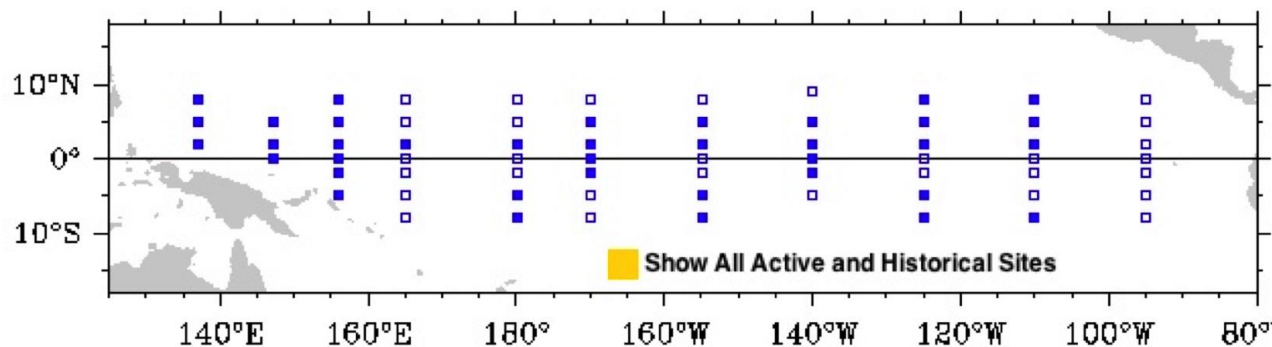
HLO 2: Mitigation of the impacts of, and adaptation to, climate change and variability

Successes and challenges in sustaining observations

Argo profiling floats:
100%+
million profiles

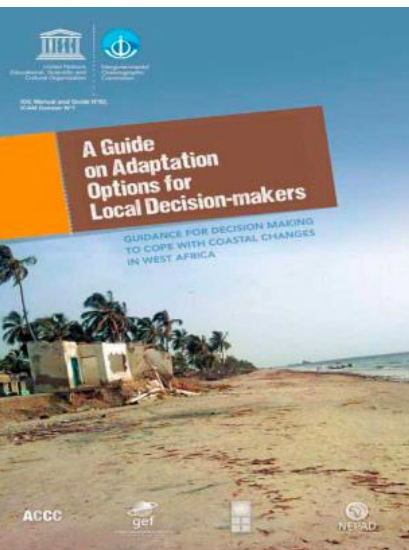


Pacific tropical moorings
for **El Niño**
TAO/Triton: ~50%



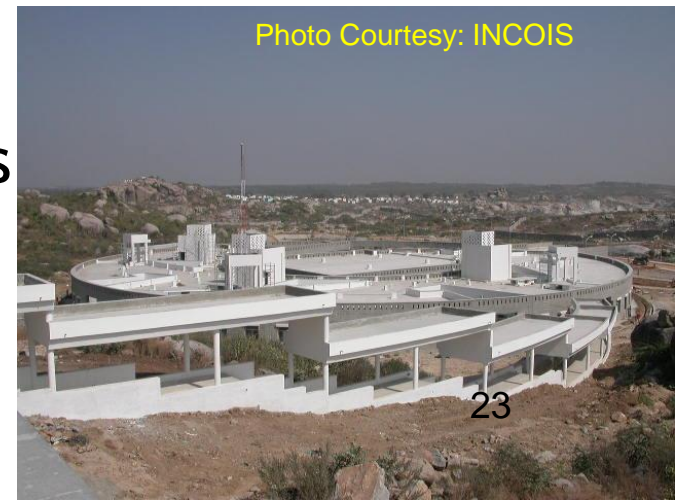
HLO2: Mitigation of the impacts of, and adaptation to, climate change and variability

- International Ocean Carbon Coordination Project (IOCCP)
- Third International Symposium on the Ocean in a High-CO₂ World
- Coastal Adaptation



HLO 3: Safeguarding the health of ocean ecosystems

- Support of Government of Flanders (Kingdom of Belgium) to IODE Programme
- MoU between IOC and Roshydromet (Russian Federation) on Partnership Centre for the IODE Ocean Data Portal
- International Training Centre for Operational Oceanography (“ITCOcean”) at Hyderabad - contribution of India to IOC’s training and capacity development activities mainly for Indian Ocean Rim countries



HLO 3: Safeguarding the health of ocean ecosystems

- Ocean Biogeographical Information system - OBIS
- Harmful Algal Bloom -HAB
- Microplastics

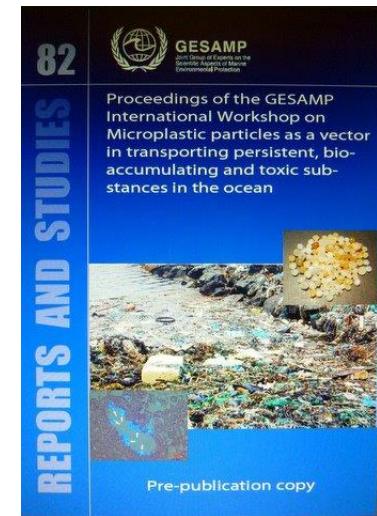


Photo courtesy : GESAMP

HLO 4: Management procedures & policies leading to sustainability of coastal & ocean environment & resources

- Regular Process
- Capacity Development



HLO 4: Management procedures & policies leading to sustainability of coastal & ocean environment & resources

- South Pacific Information and Data Management (SPINCAM)
- People for Ecosystem Based Governance in Assessing Sustainable Development of Ocean and Coast (PEGASO)



Challenges and lessons learned

Tsunami

- Reduced secretariat support
- NEAMTWS especially concerned
- Some ICG meetings moved to 2-year cycle



Climate Change

- IOCCP staff reduced to 1 – none in IOC
- IOCCP International Project Office relocated to Poland
- No support to Blue Carbon Science Working Group
- 2 JCOMMOPS & 1 OOPC staff transferred to WMO



Challenges and lessons learned

- Regular Process: no training module on marine assessment
- No resources for meetings of World Assessment Group of Experts.
- Development of ODIN and HAB CD in IOC regions not ensured
- Participation in meetings by video conferencing
- Proposed IOC support Centre for the Ocean Data Portal in Moscow in 2013 expected to provide mechanism for advancing IODE programme



Challenges and lessons learned

- Unable to support IOCINDIO Meeting
- 'Nutrients and Coastal Impacts Research Programme' initiative will not take place
- IOC unable to co-finance UNEP-GEF Project on nutrient enrichment & oxygen depletion
- Marine Spatial Planning training courses in regions will not be implemented
- Most important concern – vulnerability of staffing situation
- Progress Report on Budget Execution (2012) and Anticipated funding for 2013



IOCINDIO

IOC Regional Committee for the
Central Indian Ocean



The way forward



A group of people are silhouetted against a bright, golden sunset over the ocean. They are in a small, narrow boat, possibly a canoe or a small fishing boat, which is partially on the sandy beach. The water is calm, and the sky is a deep orange. The overall mood is peaceful and grateful.

Thank you!

Merci beaucoup!

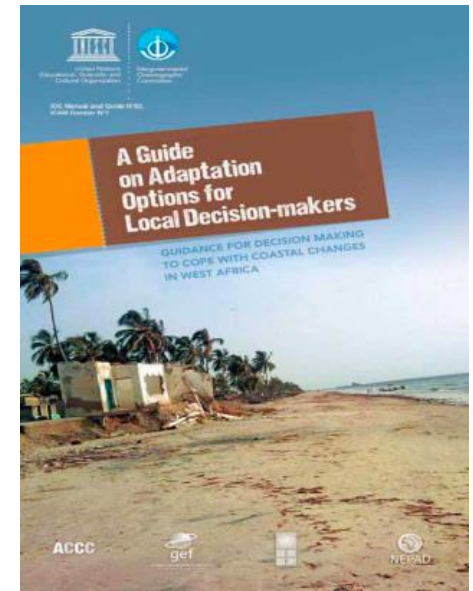
¡Muchas Gracias!

Большое спасибо!

<http://ioc.unesco.org>

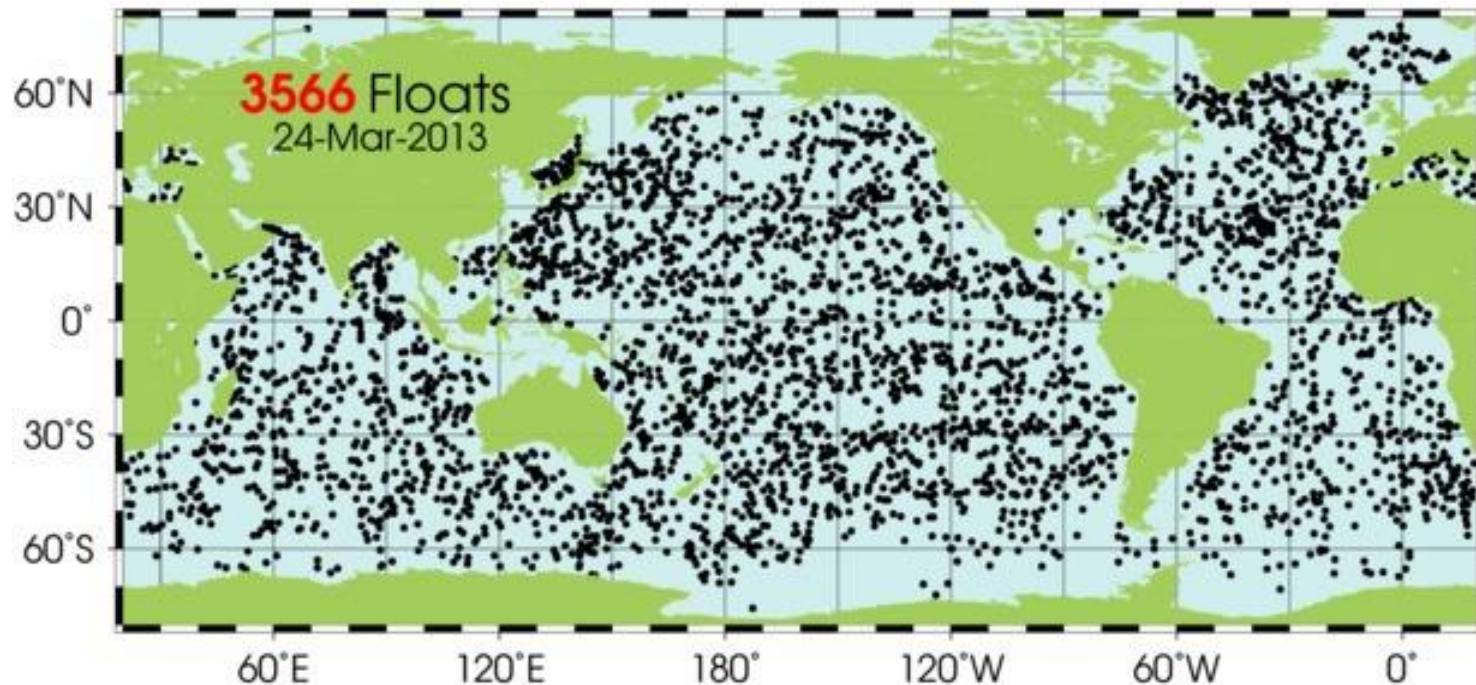
HLO2: Mitigation of the impacts of, and adaptation to, climate change and variability

- New GOOS Steering Committee
- JCOMM
- International Ocean Carbon Coordination Project (IOCCP)
- Third International Symposium on the Ocean in a High-CO₂ World
- Coastal Adaptation



HLO2: Mitigation of the impacts of, and adaptation to, climate change and variability

- Argo floats' one millionth profile



Status of the Argo profiling float array as of 24 March 2013