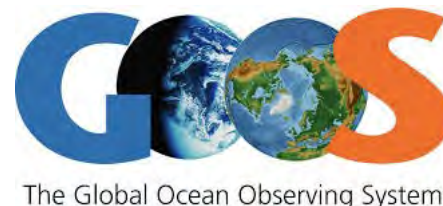


## From Global to Local

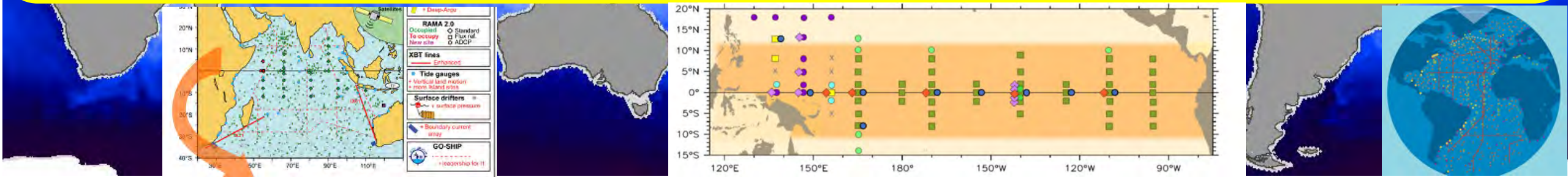
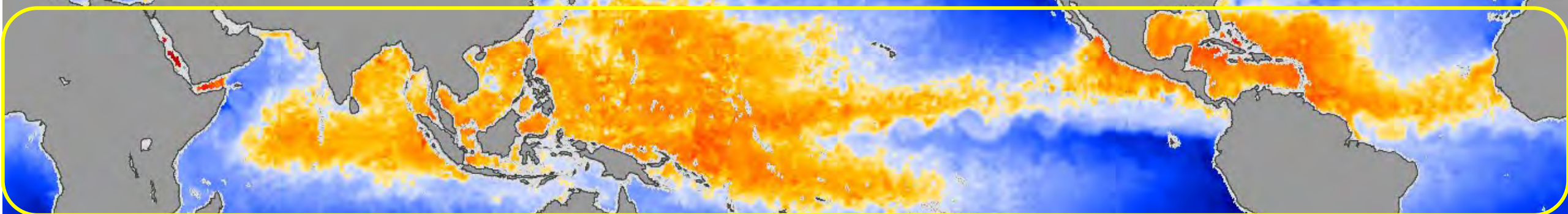
- Cultivating new solutions and partnerships for an enhanced ocean observing System in a decade of accelerating change

Weidong Yu, Lisa Beal, Maria Paz Chidichimo, and Benjamin Rabe



# Background: recent observation progress over three basins

Observing System Review in response to new scientific and social demands







2021  
2030

United Nations Decade  
of Ocean Science  
for Sustainable Development



United Nations  
Educational, Scientific and  
Cultural Organization

Intergovernmental  
Oceanographic  
Commission

2021  
2030 United Nations Decade  
of Ocean Science  
for Sustainable Development



# The Science We Need For The Ocean We Want

## Preparing the UN Decade of Ocean Science: Regional Workshops



## **Organizing Committee:**

Dr. Lisa Beal, University of Miami, USA ([lbeal@rsmas.miami.edu](mailto:lbeal@rsmas.miami.edu)). Co-chair IORP

Dr. Riccardo Farneti, ICTP, Italy ([rfarneti@ictp.it](mailto:rfarneti@ictp.it)). SORP

Dr. María Paz Chidichimo, CONICET and SHN ([mariapaz.chidichimo@gmail.com](mailto:mariapaz.chidichimo@gmail.com)),  
Argentina. ARP, OOPC

Dr. Weidong Yu, Sun Yat-Sen University, China ([yuwd@mail.sysu.edu.cn](mailto:yuwd@mail.sysu.edu.cn)). Co-chair OOPC

Dr Benjamin Rabe, Alfred-Wegener-Institut, Germany ([benjamin.rabe@awi.de](mailto:benjamin.rabe@awi.de)). NORP

Dr Antonietta Capotondi, NOAA-ESRL, USA ([antonietta.capotondi@noaa.gov](mailto:antonietta.capotondi@noaa.gov)). Co-chair  
PRP

Dr. Nick Hardman-Mountford, Oceans and Natural Resources Directorate, Commonwealth  
Secretariat, UK ([n.hardman-mountford@commonwealth.int](mailto:n.hardman-mountford@commonwealth.int)). IORP

Jing Li, International CLIVAR Project Office ([jing.li@clivar.org](mailto:jing.li@clivar.org))

**Tentative list of speakers:**

All the CLIVAR region panels and GSOP expressed their interest in, and provided comments on, an early concept of this workshop. All panels are committed to joining the workshop. Thus far a number of speakers (listed below) have accepted invitations as (i) co-chairs of the various CLIVAR panels and (ii) experts that can speak to strategies and action for key expansions of the observing systems. *Next steps for the organizing committee are to identify and invite scientists from developing/rim nations that may be looking for opportunities to form new partnerships with the regional observing systems, as well as representatives from IOC, GOOS, and the GOOS regional alliances.*

Sabrina Speich, ENS, France (co-chair CLIVAR Atlantic Region Panel)

Amy Solomon, NOAA, USA (co-chair CLIVAR Northern Ocean Region Panel)

Matthieu Lengaigne, IPSL, France (former co-chair CLIVAR Pacific Region Panel)

Steve Jayne, WHOI, USA (co-chair CLIVAR Global Synthesis and Observations Panel)

Inga Smith, U. Otago, NZ (co-chair CLIVAR/CliC/SCAR Southern Ocean Region Panel)

Andrea Storto, CMCC, Italy (co-chair CLIVAR Global Synthesis and Observations Panel)

Walter Robinson, NCSU, USA (former co-chair CLIVAR Atlantic Region Panel)

Roxy Mathew Koll, IITM, India (co-chair CLIVAR/IOC-GOOS Indian Ocean Region Panel)

Paquita Zuidema, RSMAS, USA (co-chair CLIVAR Atlantic Region Panel)

Juliet Hermes, SAEON, South Africa (member CLIVAR/IOC-GOOS Indian Ocean Region Panel)

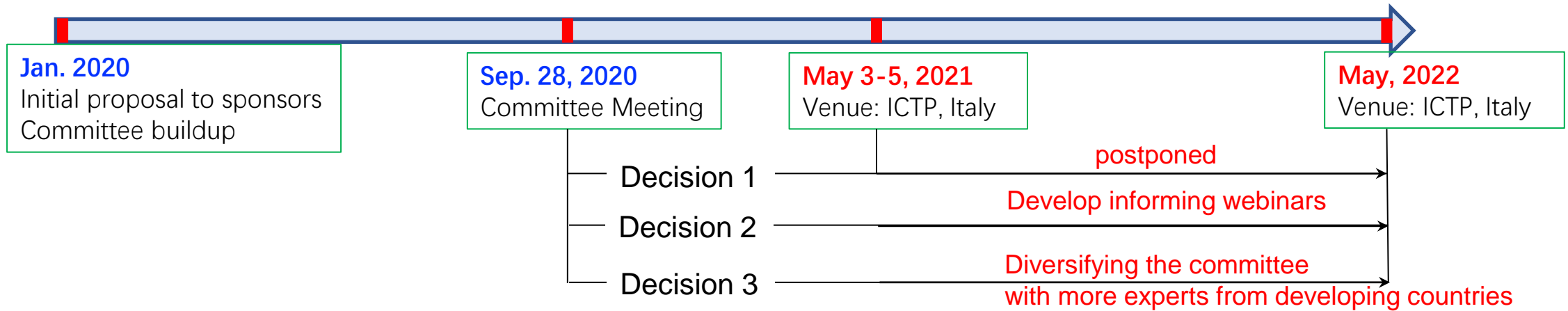
Weidong Yu, Sun Yat-Sen University, China (co-chair GOOS OOPC)

M A Atmanand, NIOT, India (Chair IOCINDIO)

Nicholas Hardman-Mountford, Oceans and Natural Resources Directorate, UK (member CLIVAR/IOC-GOOS Indian Ocean Region Panel)

Ronald Buss de Souza, INPE, Brazil (member CLIVAR/CliC/SCAR Southern Ocean Region Panel)

## Planning process of CLIVAR-GOOS Observing System Workshop



### Key issues to address:

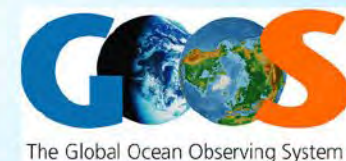
*How global ocean observing system better fit into the coastal needs, where human interacts with ocean most intensively.*

*Discuss opportunities for developing rim countries to increase their oceanographic capabilities and improve regional forecasting in partnership with the various regional ocean observing systems.*

# From global to coastal: Cultivating new solutions and partnerships for an enhanced Ocean Observing System in a decade of accelerating change

- Activity type: 4-day Advanced School/Workshop
- Venue: ICTP, Trieste, Italy
- Dates: May, 2022
- Organising Committee: Lisa Beal (IORP, OOPC, USA), Riccardo Farneti (SORP, Italy), María Paz Chidichimo (ARP, OOPC, Argentina), Weidong Yu (Chair OOPC, China), Antonietta Capotondi (PRP, USA), Benjamin Rabe (NORP, Germany), Nick Hardman-Mountford (Commonwealth Secretariat, UK).
- Participants: CLIVAR Atlantic, Pacific, Indian Ocean, Northern Ocean and Southern Ocean region panels; Global Synthesis and Observations Panel; US CLIVAR Phenomena, Observations, and Synthesis panel; GOOS Ocean Observations for Physics and Climate panel; plus invited developing nation scientists.

With CLIVAR SSG and OOPC?





- At the four-day workshop participants will:
- Present and discuss the current most important societal and scientific drivers of each of the regional basin-wide observing systems.
- Hear scientists from developing countries present the scientific and societal drivers for observing their coastal oceans and discuss how their needs may interface with the regional ocean observing systems and their products.
- Discuss challenges, processes, and outcomes of reviewing and designing the regional observing systems for the next decade. For example, (i) the transition to more multidisciplinary observing systems (and panel membership), (ii) the need for regional-scale forecasting and expansion into the coastal zone, (iii) lobbying for resources, capacity-building, and developing partnerships, (iv) data archiving, assemblage, and sharing.
- Discuss how our efforts and priorities combine and how the panels can prepare together for the UN Decade.