

6th GSOP panel: Actions

- Last 6th Panel meeting 30th Nov -1st Dec 2012 WHOI
- **ACTION: suggest to CLIVAR SSG to include ENSO diversity in one of CLIVAR's research challenge themes (e.g., theme I) (co-chairs)**
- **ACTION: GSOP letter talking about OHC to Data Council (co-chairs)**
- ACTION: Request Data Council to link the CLIVAR/GSOP intercomparison activity to their website (ICPO)
- ACTION: Contact NOAA Program Manager David Legler to explore a possible coordinated OSE effort with the support of funding agencies such as NOAA (T. Lee)
- ACTION: GSOP to request NWP centres to write a statement on the need of high-quality Argo data (M. Palmer, co-chairs)
- **ACTION: Request flux community to develop a recommendation for a standard set of calculations so that data could be submitted to OceanSITES servers (co-chairs, L. Yu, U. Send)**
- **ACTION: Panel to suggest names for members of the Indices Task Team (all)**
- ACTION: Renew request to CLIVAR basin panels to provide comments to GlobCurrent User Requirements (ICPO)
- **ACTION: Propose names to the SSG as replacement for Toste Tanhua and Toshiyuki Awaji.**

7th GSOP panel: Introduction

Charges to all CLIVAR Panels

- Review GSOP ToR
- Review engagement with new CLIVAR and WCRP structures
- Contributions to CLIVAR Research Foci
- Contributions to WCRP Grand Challenges

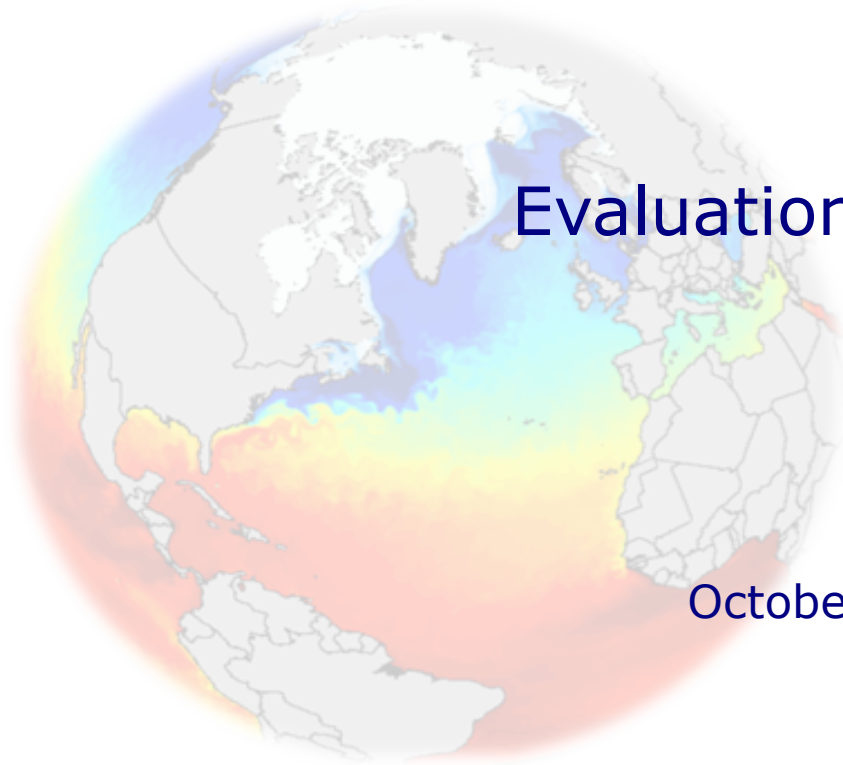
- GSOP ToRs emphasise 2 key strands to GSOP
 - Global Ocean Observations fit for Climate monitoring (shared with OOPC)
 - Ocean Synthesis for Climate (shared interests with GODAE-Oceanview)
- How best to bring these strands together?
 - New WCRP seeking to emphasise Societal relevance!

- Strong interest in Ocean Syntheses/Reanalyses
- Great potential for Ocean Synthesis products (paralleling Atmospheric Reanalyses)
- Perhaps too many ocean synthesis products?
- What are ocean reanalyses fit for?

Ocean ReAnalysis Intercomparison

Project: ORA-IP

- First IP meeting ECMWF 2007
- GSOP5: IP together with GODAE-Oceanview
- Implementation plan from GODAE-GSOP meeting in Santa Cruz June 2011
- Hold some ORA-IP workshops in conjunction with “User Communities” : Independent perspectives
- [Decadal Forecasting Meeting: KNMI: Nov 2009]
- Surface Flux Workshop WHOI Nov 2012
 - Many downstream surface flux activities have Reanalysis components
- Opportunity here to build collaborations with OMDP
 - What can we learn about Ocean Model Processes from Data Synthesis?
- Future ORA-IP community workshops? Sea Level?.....



Evaluation of Ocean Syntheses (EOS)

ES1402

October 2014 – October 2018

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Countries in the Network (so far...)

18 countries at the full proposal submission phase:

-  • Belgium (University of Liège) - Proposer
-  • Germany (University of Hamburg)
-  • Denmark (Danish Meteorological Institute)
-  • Spain (Institut de Ciencies del Mar – CSIC)
-  • France (MERCATOR OCEAN; University of Grenoble)
-  • Croatia (Ruder Boskovic Institute)
-  • Italy (Centro Euro-Mediterraneo sui Cambiamenti Climatici; Istituto Nazionale di Geofisica e Vulcanologia)
-  • Norway (Institute of Marine Research; Nansen Environmental and Remote Sensing Center)
-  • Sweden (Swedish Meteorological and Hydrological Institute)
-  • United Kingdom (ECMWF; Met Office; NOC; University of Edinburgh; University of Reading)
-  • Estonia (Tallinn University of Technology)
-  • Finland (Finnish Meteorological Institute)
-  • Portugal (University of Lisbon)
-  • Turkey (Middle East Technical University)
-  • Poland (University of Gdansk)

+ Greece, Malta & Israel
just joined

New COST Action on the Evaluation of Ocean Syntheses to start in October 2014

Main objective: establish and consolidate a network of European scientists working on the generation and evaluation of ocean synthesis products



- compile an inventory of end-user requirements (quality and availability of ocean syntheses)
- improve the understanding of the value and use of ocean syntheses
- issue recommendations on which data products are the most suitable for which task.
- increase awareness of ocean synthesis products among end users

What COST finances

- Financing of **networking activities** for COST countries
 - Meetings
 - Workshops
 - Conferences
 - training schools – 3 foreseen:
 - data assimilation techniques
 - evaluation of ocean models, data and syntheses
 - downscaling issues for regional ocean syntheses
 - **Scientific missions (from any participating country to any other)**
 - **Travel + generous per diem**

COST Total *typical* budget: **150000 euro per year**

- COST aims to reduce the fragmentation in European research
- **Open membership**
- Duration: **4 years**

Scientific Tasks

WG 1: Preparation and harmonization of data

- Catalog of available ocean syntheses
- Catalog of available independent data (including SeaDataNet and EMODNet)
- Guidelines for evaluation of ocean syntheses (MyOcean2, GODAE, CLIVAR/GSOP)
- Observation impact experiments

WG 2: Evaluation of ocean syntheses

- Quality of ocean syntheses products and intercomparison
- Impact of new satellite/in situ data sets in the quality of ocean syntheses
- Assessment of adequateness of error fields

WG3: Applications: from short-term predictability to climate studies

- Variability of ocean heat and freshwater transports
- Evaluation of Arctic and Antarctic circulation patterns and transports
- Evaluation of propagating modes in the ocean syntheses
- Near real-time monitoring of climate signals
- Characterization of the sea level variability at interannual and interdecadal scales

WG4: Downscaling issues: from global to regional syntheses

- Impact of using higher resolution
- Assessment of the optimal temporal frequency of boundary conditions
- Inter-comparison of regional and global syntheses
- Consistency between global and regional syntheses

Non - COST participants/experts (and Stakeholders):

- CLIVAR Project Office (Antonio Caltabiano)
- World Climate Research Program – World Meteorological Organization (Michel Rixen)
- European Space Agency (Pierre-Philippe Mathieu)
- USA - Jet Propulsion Laboratory (Tony Lee)
- USA – NOAA (Eric Bayler)
- Ukraine (Marine Hydrophysical Institute National Academy of Sciences)



If interested in joining please contact:

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