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.
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?
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

Aida Alvera Azcárate
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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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