

## Third CLIVAR/GODAE Meeting on Ocean Synthesis Evaluation

6-8 October, 2008

JAMSTEC Office, Tokyo, Japan

Day 1:

- 1) Opening, logistics, etc
  - a. Dr. Fukasawa
- 2) Charge to the meeting:
  - a. D Stammer
- 3) Synthesis evaluation:
  - K7 (Awaji) - ?
  - CERFACS (Anthony Weaver) - heat and freshwater content and MOC
  - ECCO2 (Dimitris) - ?
  - GFDL (Roasati) - ?
  - INGV (Simona Masina) - ?
  - DePreSys (Doug Smith)- heat content, salt content and sea level
  - Mercator (Remy/Ferry) - Heat Content, Freshwater and Sealevel
  - ECMWF (Magdalena) - Heat Content, Freshwater and Sealevel
  - SODA (Carton) - ?
  - a. A. Köhl:
  - b. T. Tee:
  - c. Christian Keppenne: Subseasonal Variability of Shallow Water Masses of the Northern and Tropical Oceans as Viewed in Nine Ocean Analyses.
- 4) Archiving and distribution of synthesis results:
  - a. D. Stammer
  - b.
- 5) Discussion of how ocean indices will be computed:
  - a. E Harrison: OOPC Indices
  - b. D. Stammer: CLISAP Index Computation
- 6) Progress of Efforts
  - a. Nozomi Sugiura : State estimation and forecast of climate events by using 4D-VAR coupled data assimilation,
  - b. Shuhei Masuda: K7 ocean reanalysis experiment from 1980 by using a

4D-VAR adjoint method

c.

Dear Prof. Stammer,

I have consulted the two points, i.e. a) a detailed explanation of the K7 CDA approach and b) ocean and carbon synthesis, with my colleagues.

As to the former point, the CDA PAPER is soon seeable on the web site of JGR, which describes the detailed assimilation procedure. So, after the presentation by Sugiura-san, is the discussion about your point preferable for us?

Dr. Ishikawa at Kyoto University: the K7 current plan for an integrated assimilation of an ocean GCM and a lower trophic ecosystem model with a carbon cycle. He hopes to give his talk after the presentation of Dr. Masuda about the K7 ocean reanalysis experiment from 1980 by using a 4D-VAR adjoint method.

Day 2:

- 7) Initialization of coupled climate models
  - a. D. Menemenlis: Initialization of SI Model
  - b. D. Stammer: MPI-M/GECCO Initialization
  - c. D. Smith
  
- 8) Coupled assimilation activities
  - a. D. Menemenlis: Ice Assimilation
  - b. P. Heimbach: ice sensitivities
  
- 9) Scientific analysis, including those by CLIVAR basin panels.:
  - a. W. Wang, A. Köhl, D. Stammer: Watermass transports
  - b. A. Köhl and D. Stammer: SSH Variations
  
- 10) OceanObs'09:
  - a. E. Harrison, D. Stammer
  - b. Discussion
  
- 11) Discussion of joint publications.
  
- 12) Data needs, revisited:
  - a. D. Stammer:

Participants:

Dr. Masao Fukasawa (Director General of IORGC, Jamstec; Leader of Japanese CLIVAR/GSOP)

Dr. Nozomi Sugiura (JAMSTEC/FRCGC)

Dr. Shuhei Masuda (JAMSTEC/FRCGC)

Dr. Hiromichi Igarashi (JAMSTEC/MEDS)

Dr. Takahiro Toyoda (JAMSTEC/FRCGC)

Dr. Yoichi Ishikawa (Kyoto University)

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