

HYCOM NOPP GODAE meeting (Nov. 7-9, 2006)
COAPS, Florida State University, FL

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THIS IS AN INFORMATION EXCHANGE MEETING. DO NOT HESITATE TO PRESENT THE NUTS AND BOLTS ASPECTS OF YOUR WORK.

Suggested time for the presentations is +/- 15 minutes. In addition to a discussion of your results, it would be most useful to include in your presentation a status report as well as your vision for the following year.

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AGENDA

=== TUESDAY === TUESDAY === TUESDAY === TUESDAY === TUESDAY ===TUESDAY ===

8:00am Pick-up name tags and registration
8:45am Welcome

Overview

9:00am HYCOM NOPP GODAE present status	E. Chassignet
9:20am HYCOM and GODAE in relation to Navy ocean prediction	H. Hurlburt
9:40am Role of HYCOM in NCEP's modeling plans	D.B. Rao

NAVY and NOAA Global and Basin-Scale HYCOM Systems

10:00am NCEP operational model: improvements and plans	C. Lozano
10:20am Evaluation of the real time ocean forecast system Atlantic for NOAA's ocean prediction center	R. Daniels
10:40am BREAK + POSTERS	
11:20am An update on the 1/12 degree global HYCOM effort	J. Metzger
11:40am North Atlantic and global HYCOM evaluation	J. Shriver

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Data Assimilation

1:00pm The Navy Coupled Ocean Data Assimilation (NCODA) in HYCOM	O.M. Smedstad
1:20pm Verification of NCODA assimilation in the HYCOM 1/25 degree Gulf of Mexico domain	J. Cummings
1:40pm Evaluation of the NCODA assimilation as initial/boundary conditions for Hurricane Ivan and West Florida Shelf simulations	G. Halliwell
2:00pm The multivariate properties of the Ensemble Optimal Interpolation in the Gulf of Mexico	F. Counillon
2:20pm Gulf of Mexico data assimilation comparison exercise	E. Chassignet
2:40pm Data assimilation in HYCOM using the SEEK filter: recent advances	P. Brasseur
3:00pm BREAK + GROUP PHOTO	
3:40pm On a 3D variational assimilation scheme in hybrid coordinates	C. Lozano
4:00pm Constrained Data Assimilation	C. Thacker
4:20pm DATA ASSIMILATION PLENARY DISCUSSION	
4:40pm HYCOM data service	A. Srinivasan
5:00pm DATA SERVING PLENARY DISCUSSION	
6:00pm Reception at the University Center Club	

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Basin-scale/Regional/Coastal Simulations

9:00am High resolution nested modeling in the Gulf of Mexico	P. Hogan
9:20am Loop current eddy interactions using HYCOM	K.H. Hyun
9:40am Upper-ocean response to Hurricane Ivan in a 1/25° nested Gulf of Mexico HYCOM	P. Thoppil
10:00am A West Florida Shelf ROMS model nested into HYCOM	A. Barth

10:20am Inter-annual simulations with SoFLA-HYCOM and comparison to in-situ data	G. Peng
10:40am BREAK + POSTERS	
11:20am On the transport of river induced low salinity waters on the SoFLA-HYCOM domain	R. Schiller
11:40am HYCOM/QUODDY nested baroclinic nowcast/forecast system for the South Atlantic Bight	T. Shay
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1:00pm Nesting regional and coastal models in global HYCOM	S. deRada
1:30pm A regional Southern California model nested within global HYCOM	P. May
1:50pm Biophysical modeling of the California Current System	M.J. Olascoaga
2:10pm On the monthly and interannual variability of the eastern Pacific warm pool	L. Zamudio
2:30pm A Cariaco basin ROMS model nested in HYCOM	A. Alvera-Azcarate
2:50pm Sensitivity to vertical resolution in hybrid ocean models	C. Narayanan
3:10pm BREAK + POSTERS	
3:40pm The influence of mesoscale activity on the primary production in the Norwegian Sea	C. Hansen
4:00pm Modeling the shelf recruitment of <i>Calanus finmarchicus</i> on the west coast of Norway	A. Samuelsen
4:20pm Outflow representation in HYCOM	X. Xu
4:40pm 1/3 degree interannual north Atlantic simulations	Z. Garraffo
5:00pm Modeling flows around islands: the Hawaiian experience	K. Richards

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Surface Boundary Conditions

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| 9:00am Impacts of ocean currents and waves on the wind stress drag coefficient: relevance to HYCOM | B. Kara |
| 9:20am Sensitivity of surface turbulent fluxes to errors in bulk formula inputs | M. Bourassa |
| 9:40am Hybrid wind stress anomalies and their impacts on the global HYCOM simulations | B. Kara |

HYCOM development

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| 10.00am New features of HYCOM | A. Wallcraft |
| 10:20am BREAK +POSTERS | |
| 11:00am The quest for the perfect vertical grid generator | R. Bleck |
| 11:20am Embedding a forward model of barotropic and baroclinic tides into HYCOM | B. Arbic |
| 11:40am A proposed new approach to HYCOM's thermobaricity problem | R. Bleck |

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Afternoon reserved for follow-up discussions

POSTERS

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| Dissipation of midocean mesoscale eddies: Inferences from satellite altimetry data, in-situ data, and idealized models | B. Arbic |
| Introduction of inequality constraints into a Reduced Order Kalman Filter for data assimilation into ocean circulation models | C. Lauvernet |
| Branches, bifurcations, and retroreflections over the Tail of the Grand Banks | M. McCartney |
| Persistent Transport Barrier on the West Florida Shelf | M.J. Olascoaga |
| Modeling the waters around Greenland | T. Rasmussen |

Abyssal pathways and processes in the Indian Ocean from a 1/12 Global HYCOM Simulations

A. Srinivasan