



Fleet Numerical Meteorology and Oceanography Center

Update to COPC

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for

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Unified Modeling

- Administrative move is done
- Tight NAVOCEANO-FNMOC partnership vital for operational support
 - Work together to serve users
 - Share DSRC resources
 - Share data ingest and processing
- COPC POCs are the same



Modeling Update

- NAVGEM 2.0
 - T681L80 (~19Km horizontal res); more scalable
 - Delayed by steep-terrain instability (leftover from NOGAPS!)
- GOFS 3.1
 - OpTest on-going; anticipate completion and move to Ops
 - Ice products validated and being used
- Global Aerosol
 - Species-specific MPI testing in beta
 - In process: COAMPS dust initialized by global NAAPS
- COAMPS
 - Ocean surface initialized by HYCOM
- COAMPS-OS
 - “Split COAMPS” on track
 - Ship-following in OpTest
 - User features added for “run now” and AAP



Modeling Work in Progress

- Normalize versions and parameterization of NCOM/COAMPS
- Normalize data assimilation of NCOM/COAMPS
- Normalize WWIII global and regional with GOFS, NCOM, and SWAN
- Continue coupling work
- COAMPS-TC deterministic and ensemble upgrades
- Navy Ionospheric model in development



Other upcoming events

- DSRC technology insertion summer 2018
- Transition of Program Office from CNMOC to PEO-C4I (SPAWAR PMW-120) on-going
- Task Order from Admiral Okon to build COOP capabilities
- Cylc transition
- Commercial cloud computing
- Containerization of code