1. Robert C. Beardsley and Changsheng Chen - *NECOFS: a FVCOM-based regional coastal and local inundation forecast tool*


4. V. Carey and D. Estep - *Adjoint-based error control and sensitivity analysis for shallow water models*


6. Vivien P. Chua and Oliver B. Fringer - *Assessing the effects of numerical diffusion in a three-dimensional unstructured-grid model of a periodically-stratified estuary*

7. Andrea Cucco, Christian Ferrarin, Aaron Roland, Debora Bellafiore, Marco Bajo, Francesca De Pascalis, Michol Ghezzo and Georg Umgiesser - *SHYFEM, a numerical tool for investigating environmental processes in coastal seas and lagoons*

8. Haiyang Cui, J.D. Pietrzak and Guss S. Stelling - *A non-hydrostatic two-dimensional unstructured finite volume model for tsunami waves*


11. Mike Foreman, Roy Walters, Mike Tarbotton - *Circulation Models for the Discovery Islands, British Columbia*


13. Shiva Gopalakrishnan, Frank Giraldo and Jim Kelly - *Development of a Coastal Inundation Model using a Triangular Discontinuous Galerkin Method*

14. O. Gourgue, J. Lambrechts, E. Deleersnijder, V. Legat and E. Wolanski - *A fine sediment module for the two-dimensional component of SLIM*

15. D Greenberg, Florent H. Lyard and Zeliang Wang - *TUGOm – progress, application and testing*

17. J. Hill, M. Piggott, D. Ham, E. Popova and M. Srokosz - On the performance of a generic length scale turbulence model within an adaptive mesh finite element ocean model


19. S. M. Jachec - Numerical modeling the development of field-scale internal boluses via barotropic tidal forcings

20. Tarang Khangaonkar, Zhaqing Yang, and Taeyun Kim - Tidally Averaged Circulation in Fjordal Sub-basins of Puget Sound: Model Validation Using Historic Records


22. Ethan J. Kubatko, Clint Dawson, Colton Conroy and Ashley Maggi - A sigma-coordinate, discontinuous Galerkin method for the three-dimensional shallow water equations

23. J. Lambrechts, J.-F. Remacle and K. Hillewaert - Efficient assembly of high order continuous and discontinuous finite element operators

24. Lyon W. J. Lanerolle, Richard C. Patchen and Frank Aikman III - The Design, Calibration, Validation and Application of a Model Nesting Methodology

25. Yoann Le Bars and Florent Lyard - Gradient, divergence and laplacian discrete approximations for numerical ocean modelling

26. V. Legat - SLIM: a three-dimensional baroclinic finite-element model; Time and spatial discretizations


28. Silvia Matt, Mohamed Iskandarani, Kevin Leaman - Simulation of Mixing in 2D Gravity Currents Subject to Time-Dependent Forcing

29. P. McKay and C.A. Blain - Modeling of a Coastal River and Associated Floodplains
30. S.A. Melchior, V. Legat, and P. Van Dooren - *Multigrid-based solvers for the shallow-water equations*

31. Arthur J. Miller and Hajoon Song - *State Estimate of the California Current System Using 4DVAR Ocean Data Assimilation*

32. P. Oddo and N. Pinardi - *The generalized Flather lateral open boundary condition*

33. O. Svenstrup Petersen and I. Sehested-Hansen - *A very large application of unstructured coastal models for infrastructure projects – cannot present on Friday (20th)*

34. J. Pietrzak, O. Kleptsova, O. Cui and G. Stelling - *A comparison of Finite Volume and Finite Element Methods for simulating The Indian Ocean Tsunami*

35. Shanon M. Reckinger and Oleg V. Vasilyev - *Ocean Circulation Modeling Using Adaptive Wavelet Collocation Method*


37. B. Seny, J. Lambrechts, J.F. Remacle and V. Legat - *Multirate Time Stepping for Accelerating Explicit High Order Discontinuous Galerkin Computations*

38. Y. Peter Sheng, Vladimir A. Paramygin, Tianyi Liu, Andrew Lapetina, and Justin R. Davis - *Recent Advances of An Integrated Modeling System for Coastal and Estuarine Environments – requests slot on the 18th*


40. S. Tanaka, J.J. Westerink, C. Dawson, and R.A. Luettich, Jr. - *Scalability of Unstructured Grid Based Hurricane Storm Surge Model*

41. H. S. Tang and X. G. Wu - *Simulation of Thermal Discharge into Coastal Flow: An Example of CFD and GFD Hybrid Approach to Resolve Small-Scales*

42. B. Wang, O.B. Fringer - *High-resolution simulation of stratified flow and separation over an abrupt sill in a estuary*

43. Lei Wang, Robert Krasny and John P. Boyd - *A Lagrangian vortex method for the barotropic vorticity equation on a rotating sphere*

45. C. Wekerle, S. Harig, W. Pranowo, A. Androsov, A. Fuchs, N. Rakowsky, J. Schroter and J. Behrens - *Dependency of tsunami simulations on bathymetry, grid resolution and bottom friction*


47. Y.J. Zhang, A.M. Baptista, A. Azevedo, A. de Oliveira, A.B. Fortunato, A. Roland - *SELFE Cross-Scale Modeling System: new developments and applications*

48. Aijun Zhang, Eugene Wei - *NOAA’s Coastal Ocean Operational Forecast Systems*

49. Di Zhao - *HSS Preconditioner for Incompressible Navier-Stokes Equation on Multiscale Unstructured Mesh*

**POSTER Presentations**

1. Colton J. Conroy and Ethan J. Kubatko - *An Advanced Mesh Generator for Hydrodynamic Models*

2. H. El-Asrag, T. C. Iannetti, F. Ham, H. Pitsch - *Large Eddy Simulation of a Lean Direct Injection Combustor*


4. Meng Xia - *The response of northern Gulf of Mexico estuary plume, water exchange to wind forcing: A model-guided mechanism study to Perdido Bay*

5. Zhaoqing Yang, Taiping Wang, and Tarang Khangaonkar - *Pushing the Limits of Coastal Ocean Modeling: from Estuarine and Coastal Waters to Upstream River Floodplains*