Displays OS2.1 Open session on coastal and shelf seas Convener: Johan van der Molen | Co-conveners: Huib E. de Swart ,Andreas Lehmann ,Alexander Osadchiev ,Julie D. Pietrzak Displays |ChatWed, 06 May, 14:00–18:00

Chat time: ***Wednesday, 6 May 2020, 14:00–15:45***

Displays marked in red will not be presented

14:00. Johan van der Molen:

D2593 |EGU2020-9331 Variation behavior of tidal dynamics in the Yangtze Estuary: implying the amplification of hydrodynamics and sediment dynamics by the human intervention Heqin Cheng, Wei Chen, Lizhi Teng, and Xiaoting Yuan

D2594 |EGU2020-12437 On the role of flocculation, hindered settling and sediment-induced damping of turbulence in trapping sediment in estuaries, with focus on the North Passage, Yangtze Estuary Chenjuan Jiang, Huib E. de Swart, Jianan Zhou, and Jiufa Li

D2595 |EGU2020-10119 Secondary circulation in shallow ocean straits: Observations and numerical modeling of the Danish Straits Verena Haid, Emil Stanev, Johannes Pein, Joanna Staneva, and Wei Chen

14:15. Andreas Lehmann:

D2596 |EGU2020-4860 Physical drivers of oxygen depletion in the Central and Eastern Baltic Sea Taavi Liblik, Stella-Theresa Stoicescu, Jaan Laanemets, Oliver Samlas, Kai Salm, Irina Suhhova, Madis-Jaak Lilover, and Urmas Lips

D2597 |EGU2020-19185 Winter NAO significantly influences Baltic SST values throughout spring and summer Jacek Piskozub

D2598 |EGU2020-21411 Early spring SST distribution in the Baltic Sea: in search of the coldest water Tatiana Bukanovaand Irina Chubarenko

D2599 |EGU2020-11021 Non-equilibrium turbulent stresses and sediment transport in the benthic boundary layer of a shallow shelf environment influenced by flow obstruction Martin Austin, Ben Lincoln, and Guy Walker-Springett

D2600 |EGU2020-19147 The impact of baroclinity on tidal ranges in the North Sea Wenguo Li, Bernhard Mayer, and Thomas Pohlmann

D2601 |EGU2020-10206 Existence and Stability of Morphodynamic Equilibria in Double Inlet Systems Xiao Deng, Thomas Boelens, Tom De Mulder, and Henk Schuttelaars

D2602 |EGU2020-1461 A novel approach for the assessment of morphological evolution based on observed water levels in tide-dominated estuaries Cai Huayangand Feng Liu

D2603 |EGU2020-4717 2D multi-layer hydrodynamic and sediment transport modelling in a tidal estuary Kai-Yi Baiand Jiing-Yun You

14:55. Alexander Osadchiev:

D2604 |EGU2020-8781 Investigation of spatial and temporal salinity distribution in river deltas through idealized numerical modelling Constantinos Matsoukis, Laurent Amoudry, Lucy Bricheno, and Nicoletta Leonardi

D2605 |EGU2020-11194 Tidal processes and their spatial and temporal variability in the mid-field Guadalquivir ROFI Maria Angeles Serrano, Manuel Díez-Minguito, Miguel Ortega-Sánchez, and Miguel Ángel Losada

D2606 |EGU2020-14614 The influence of wind on the evolution of freshwater fronts in the Rhine ROFI Lennart Keyzer, Sabine Rijnsburger, Firmijn Zijl, Martin Verlaan, Mirjam Snellen, Cornelis Slobbe, Raul Flores Audibert, Alexander Horner-Devine, Alejandro Souza, and Julie Pietrzak

D2607 |EGU2020-12979 Tidal plume fronts, internal waves and sediment resuspension in a near field river plume Julie D. Pietrzak, Sabine Rijnsburger, Raul Flores, Zeinab Safar, Alex Horner-Devine, Alex Souza, Kevin Lamb, Nicole Jones, and Claire Chassagne

15:15. Julie Pietrzak:

D2608 |EGU2020-13161 Spatial structure, temporal variability, and dynamical features of small river plumes observed by aerial drones Alexander Osadchievand Alexandra Barymova

D2609 |EGU2020-18132 The fate of river-borne floating marine litter in the coastal sea: a case study of flooding discharge from numerous small rivers in the northeastern part of the Black Sea Evgeniya Korshenko, Victor Zhurbas, Alexander Osadchiev, and Pelagiya Belyakova

D2610 |EGU2020-17473 SPRING-NEAP CHANGE IN TIDAL HYDRODYNAMICS IN THE LINGDINGYANG BAY OF THE PEARL RIVER DELTA, China Ping Zhangand Huayang Cai

D2611 |EGU2020-12108

Distribution Characteristics and Environmental Impacts of Nutrients in the Dry Season of the Pearl River Estuary in 2016 Danna Zeng, Lixia Niu, and Qingshu Yang

D2612 |EGU2020-12872 Improvement of evaluation of water age and submarine groundwater discharge: a case study in Daya Bay, China Yan Zhang, Xuejing Wang, and Hailong Li

D2613 |EGU2020-21061 The impact of channel deepening and sand mining on estuarine tidal dynamics Nanyang Chu, Peng Yao, Suying Ou, Shuai Hu, Jie Huang, and Qingshu Yang Chat time:

Break: 15:45-16:15

Wednesday, 6 May 2020, 16:15–18:00

Alexander Osadchiev or Julie Pietrzak:

D2614 |EGU2020-20697 Internal hydraulics of surface buoyant jets with high aspect ratio Adam Jiankang Yangand Gregory Lawrence

D2615 |EGU2020-2494 Quantile function based, optical characterisation of the Nelson River plume dispersion in Hudson Bay (Canada) Atreya Basu, Anirban Mukhopadhyay, and Jens Ehn

D2616 |EGU2020-13642 Influences of River Discharge Variation and Tidal Asymmetry on the Spatial Evolution of the Turbidity Maximum Zone in Yangtze Estuary Ping Dongand Huabin Shi

D2617 |EGU2020-12345 Dynamic sedimentation process of the turbidity maximum zone in the Yangtze River Estuary under the influence of human activities Weihua Li, Xiaohe Zhang, Zhanhai Li, and Jiufa Li

D2618 |EGU2020-12649 Analysis On Characters And Dynamic Mechanism Of The Storm-induced Fluid Mud In the North Passage of the Yangtze Estuary Jiufa Li, Weihua Li, and Xiaohe Zhang

D2619 |EGU2020-11115 Sensitivity of tides and net water transport in an estuarine network to river discharge, network geometry and sea level rise Jinyang Wangand Huib de Swart

16:45. Andreas Lehmann:

D2620 |EGU2020-2544 Sedimentary signals of the upwelling along the Zhejiang coast, China Xin Zhang, Jian Liu, and Yoshiki Saito

D2621 |EGU2020-4384 Unprecedented coastal upwelling in the southern coast of the Korean peninsula during summer 2013 Jihun Jungand Yang-Ki Cho

D2622 |EGU2020-9333 Realistic numerical simulations of upwelling and downwelling in the middle Adriatic: the May 2017 episode Gordana Beg Paklar, Mirko Orlic, Tomislav Dzoic, Branka Grbec, Hrvoje Mihanovic, Zoran Pasaric, and Antonio Stanesic

D2623 |EGU2020-16587 Towards operational NEMO model for the Baltic Sea Tuomas Kärnä, Jonni Lehtiranta, and Laura Tuomi

D2624 |EGU2020-15894 A strategy towards estimating a sediment budget for the Baltic Sea coastline of Schleswig-Holstein, Germany Tanita Averes, Klaus Schwarzer, Jacobus Hofstede, Arfst Hinrichsen, Hans-Christian Reimers, and Christian Winter

17:10. Huib de Swart:

D2625 |EGU2020-11266 Advanced modelling of wave penetration in ports Konstantina Aikaterini Maroudiand Sebastiaan Reijmerink

D2626 |EGU2020-12139 Sill Processes in the Saguenay Fjord Jérôme Guay, Daniel Bourgault, Cynthia Bluteau, Cédric Chavanne, Peter Galbraith, and Louis Gostiaux

D2627 |EGU2020-13022 Vertical profile of suspended sediment concentration in the turbidity maximum zone of the partially stratified Changjiang Estuary Zhanhai Li

D2628 |EGU2020-17014 Observed seasonality in internal wave energy and associated mixing in a temperate shelf sea Juliane Wihsgott, Matthew Palmer, Jonathan Sharples, and Jo Hopkins

D2629 |EGU2020-18201 Subducting filaments at fronts in the Alboran Sea: Physical, turbulent and biological evidences. Francesco Marcello Falcieri, Mathieu Dever, Mara Freilich, Annalisa Griffa, Katrin Schroeder, and Amala Mahadevan

17:35. Johan van der Molen:

D2630 |EGU2020-18354 AlterEco: An Alternative Framework to Assess Marine Ecosystem Functioning in Shelf Seas Matthew R. Palmer, Charlotte Williams, Anil Akpinar, Claire Mahaffey, Tom Hull, and Matt Toberman

D2631 |EGU2020-18487 New Algorithm and Processor for Obtaining Maritime Information from Sentinel-1 Radar Imagery for Near Real Time Services Andrey Pleskachevsky, Björn Tings, Sven Jacobsen, Egbert Schwarz, Detmar Krause, and Holger Daedelow

D2632 |EGU2020-5902 Oceanic density/pressure gradients and slope currents John M. Huthnance, Mark Inall, and Neil Fraser

D2633 |EGU2020-20515 Stratification in the North Sea: response to different atmospheric forcing Anıl Akpınarand Matthew Palmer

D2634 |EGU2020-2715 A study on how environmental conditions affect shipping noise propagation in the north Arabian Sea

Francesco Devoto, Georgy Shapiro, and Jose M Gonzalez-Ondina