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RESEARCH INTERESTS

Geospatial data analysis · Climate projections using environmental data · Operational ocean & weather forecasting · Numerical modelling · Physical oceanography · Mesoscale ocean circulation in the Indian Ocean and Arabian Gulf · Shelf–deep sea exchanges in the Black Sea · Dense water cascading (downslope gravity currents of dense shelf water) in the Arctic Ocean, the Black Sea and the Arabian Gulf

PUBLICATIONS

See also www.fredwobus.com/research for complete list and PDF downloads

Bruciaferri D., G.I. Shapiro, S. Stanichny, A. Zatsepin, T. Ezer, **F. Wobus**, X. Francis, D. Hilton (2020) The development of a 3D computational mesh to improve the representation of dynamic processes: The Black Sea test case, *Ocean Modelling* (**146**), 101534. DOI: 10.1016/j.ocemod.2019.101534

Bruciaferri D., G.I. Shapiro, **F. Wobus** (2018) A multi-envelope vertical coordinate system for numerical ocean modelling, *Ocean Dynamics* (**68**), 1239–1258. DOI: 10.1007/s10236-018-1189-x

Mikaelyan A.S., G.I. Shapiro, V.K. Chasovnikov, **F. Wobus**, M. Zancchi (2017) Drivers of the autumn phytoplankton development in the open Black Sea, *Journal of Marine Systems* (**174**) 1–11.

Zhou F., G.I. Shapiro, **F. Wobus** (2014) Cross-shelf exchange in the northwestern Black Sea, *Journal of Geophysical Research* (**119**)(4) 2143–2164.

Wobus F., G.I. Shapiro, J.M. Huthnance, M.A.M. Maqueda, Y. Aksenov (2013) Tidally-induced lateral dispersion of the Storfjorden overflow plume, *Ocean Science* (**9**) 885–899.

Wobus F., G.I. Shapiro, J.M. Huthnance, M.A.M. Maqueda (2013) The piercing of the Atlantic Layer by an Arctic shelf water cascade in an idealised study inspired by the Storfjorden overflow in Svalbard, *Ocean Modelling* (**71**), 54–65.

Wobus F., G.I. Shapiro, M.A.M. Maqueda, J.M. Huthnance (2011) Numerical simulations of dense water cascading on a steep slope, *Journal of Marine Research* (**69**) 391–415.

Shapiro G.I., **F. Wobus**, D.L. Aleynik (2011) Seasonal and inter-annual temperature variability in the bottom waters over the Black Sea shelf, *Ocean Science* (**7**) 585–596.

International Human Genome Sequencing Consortium, Lander E.S. *et al.* (2001) Initial sequencing and analysis of the human genome, *Nature* **409** (6822) 860–921 (see list of supplementary authors).

SELECTED CONFERENCE PRESENTATIONS

Shapiro G.I., **F. Wobus** (2017) *et al.* Cascading of high salinity bottom waters from the Arabian Gulf to the northern Arabian Sea, *Geophysical Research Abstracts* (**19**) EGU2017-7366, EGU General Assembly, Vienna, Austria, 23 - 28 April 2017 (Oral presentation).

Wobus F., G.I. Shapiro, D. Yuan and Zh. Wang (2014) Inter-annual variability of exchange processes at the outer Black Sea shelf, 16th Biennial Challenger Conference for Marine Science, Plymouth, 8-11 September 2014, Book of Abstracts, p.61 (Oral presentation).

AWARDS & PRIZES

- 2009 **Plymouth Marine Laboratory** Annual Prize for the best research project thesis on the MSc Applied Marine Science course.
- 1997 **University of Hull** Ford Prize for outstanding professional achievement in the Software Engineering Team Project II in the academic year 1996/1997.

TEACHING EXPERIENCE

- May–Jun 2017* **Trainer** Plymouth University Ent. Ltd., UK
Delivered on-the-job training for UAE MetOc Centre staff in Abu Dhabi, UAE.
- Mar–Apr 2015* **Trainer** Plymouth University Ent. Ltd., UK
Provided software training and bespoke courses for UAE MetOc Centre staff in Plymouth, UK.
- Jan–Feb 2013* **Associate Lecturer** Plymouth University, UK
Delivered lectures for module ‘The Global Ocean’ to 2nd year undergraduate students on the BSc Ocean Science degree course.
- Feb 2013* **Demonstrator** Plymouth University, UK
Field work instructor on R/V ‘Falcon Spirit’ for 1st year undergraduate students on teaching cruises in Plymouth Sound (1 week). Incl. Coursework marking.
- 2011–2013* **Exam Invigilator** Plymouth University, UK
Invigilation of one-to-one exams with modified assessment procedures for students with a wide range of disabilities or learning difficulties (3 weeks).
- 2009 – 2011* **Demonstrator** Plymouth University, UK
Teaching of computer workshops and marking of coursework ‘Geostrophic currents in the open sea’ for 2nd year undergraduate students (5 weeks in 3 years). Incl. preparation of teaching materials.
- Nov 2010* **Demonstrator** Plymouth University, UK
Field work instructor on R/V ‘Falcon Spirit’ for 2nd year undergraduate students on teaching cruises in the Tamar estuary (1 week).
- 2009, 2010* **GTA and LTHE course** Plymouth University, UK
6 week GTA (General Teaching Association) course followed by LTHE300 (Learning and Teaching in Higher Education) accredited module. (Tutor: Joan Gavin, Plymouth University)

LINKED ATTACHMENT

- Curriculum vitae: www.fredwobus.com/about/fred_wobus_cv.pdf

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