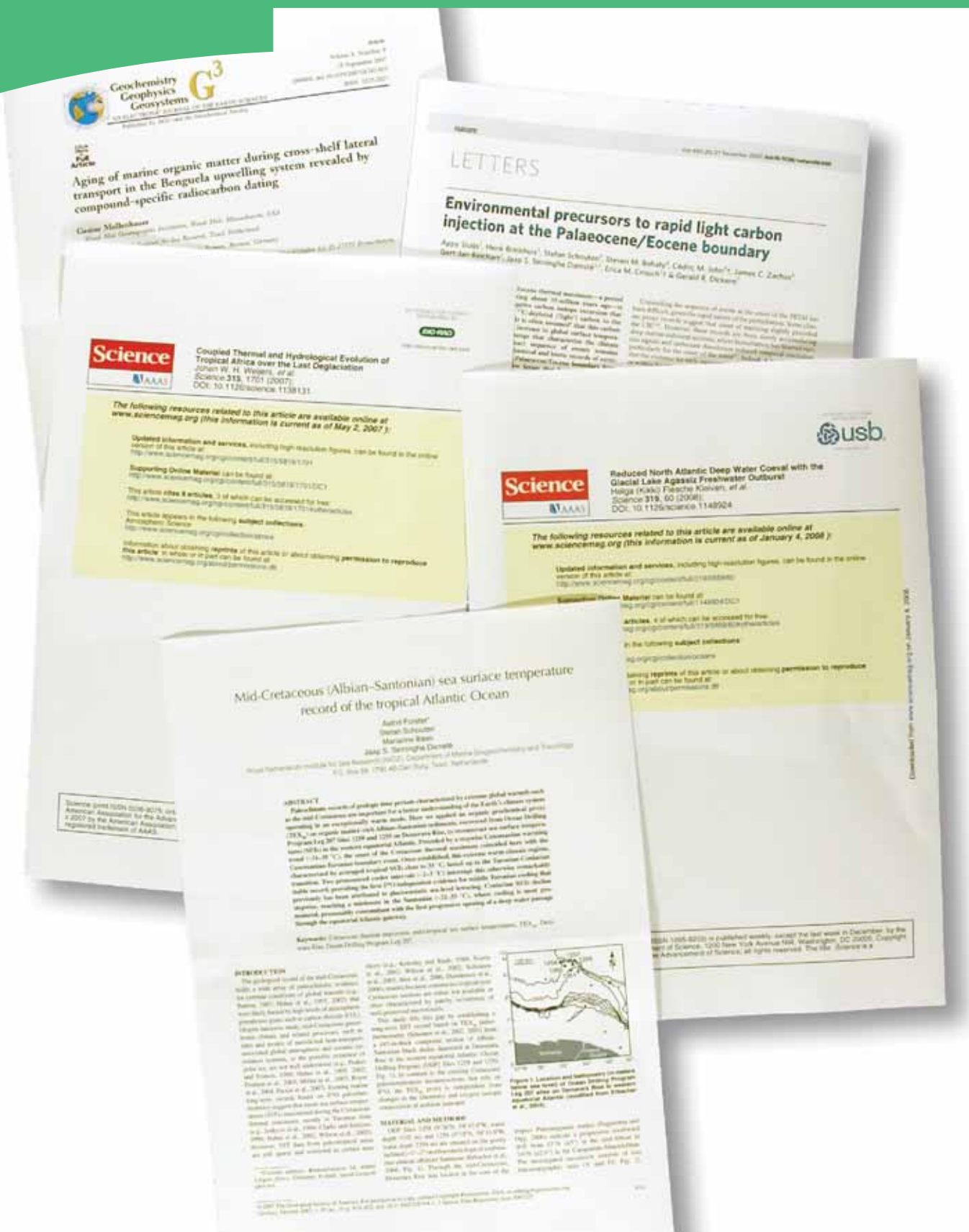
Publications



Dissertations

1. Baudoux, A.-C. The role of viruses in marine phytoplankton mortality. Groningen University, 148 pp.
2. Buisman, M.C. Ferry-observed variability of currents and bedforms in the Marsdiep inlet. Utrecht University, 150 pp.
3. Cardoso, J.F.M.F. Growth and Reproduction in Bivalves: an energy budget approach. Groningen University, 207 pp.
4. Huguet, C. TEX_{86} paleothermometry: proxy validation and application in marine sediments. Utrecht University, 186 pp.
5. Lam, F.-P.A. Ocean and laboratory observations of waves over topography. Utrecht University, 176 pp.
6. Reneerkens, J.W.H. Functional aspects of seasonal variation in preen wax composition of sandpipers (Scolopacidae). Groningen University, 168 pp.
7. Smallegange, I. Interference competition and patch choice in foraging shore crabs, University of Amsterdam, 292 pp.
8. Stadnitskaia, A.N., Bio – and Petroleum Geochemistry of Mud Volcanoes in the Sorokin Trough (NE Black Sea) and in the Gulf of Cadiz (NE Atlantic): From Fluid Sources to Microbial Methane Oxidation and Carbonate Formation. Utrecht University, 227 pp.
9. Swart, A.N. Internal waves and the Poincaré equation – Numerical computation and laboratory experiments. Utrecht University, 190 pp.
10. Weijers, J.W.H. Soil – derived branched tetraether membrane lipids in marine sediments: reconstruction of past continental climate and soil organic mater fluxes to the ocean. Utrecht University, 204 pp.

Refereed papers in scientific journals

1. Agawin, N.S.R., S. Rabouille, M.J.W. Veldhuis, L. Servatius, S. Hol, M.J. van Overzee & J. Huisman. Competition and facilitation between unicellular nitrogen-fixing cyanobacteria and non-nitrogen-fixing phytoplankton species. Limnol. Oceanogr. 52: 2233–2248.
2. Amaro, T.P.F., G.C.A. Duineveld, M.J.N. Bergman & R. Witbaard. The consequences of changes in abundance of *Callianassa subterranea* and *Amphiura filiformis* on sediment erosion at the Frisian Front (south-eastern North Sea). Hydrobiol. 589: 273–285.
3. Arrieta, J.M., M.G. Weinbauer & G.J. Herndl. Response to "Interpreting the results of oceanic mesoscale enrichment experiments: caveats and lessons from limnology and coastal ecology" by M.S. Hale and R.B. Rivkin. Limnol. Oceanogr. 52: 916-918.
4. Atkinson, P.W., A.J. Baker, K.A. Bennett, N.A. Clark, J.A. Clark, K.B. Cole, A. Dekinga, A. Dey, S. Gillings, P.M. González, K. Kalasz, C.D.T. Minton, J. Newton, L.J. Niles, T. Piersma, R.A. Robinson & H.P. Sitters. Rates of mass gain and energy deposition in red knot on their final spring staging site is both time- and condition-dependent. J. Appl. Ecol. 44: 885-895.
5. Balk, M., M. Altinbas, W.I.C. Rijpstra, J.S. Sinninghe Damsté & A.J.M. Stams. *Desulfatirhabdium butyrativorans* gen. nov., sp. nov., a novel butyrate – oxidizing sulfate – reducing bacterium isolated from an anaerobic bioreactor. Int. J. Syst. Evol. Microbiol. 57: 2680–2687.
6. Barrett, R.T., C.J. Camphuysen, T. Anker-Nilssen, J.W. Chardine, R.W. Furness, S. Garthe, O. Hüppop, M.F. Leopold, W.A. Montevecchi & R.R. Veit. Diet studies of seabirds: a review and recommendations. ICES J. Mar. Sc. 64: 1675-1691.
7. Baudoux, A.-C., M.J.W. Veldhuis, H.J. Witte & C.P.D. Brussaard. Viruses as mortality agents of picophytoplankton in the deep chlorophyll maximum layer during IRONAGES III. Limnol. Oceanogr. 52: 2519-2529.
8. Beukema, J.J. & R. Dekker. Variability in annual recruitment success as a determinant of long-term and large-scale variation in annual production of intertidal Wadden Sea mussels (*Mytilus edulis*). Helgol. Mar. Res. 61: 71-86.
9. Bewley, G.P., D.P. Lathrop, L.R.M. Maas & K.R. Sreenivasan. Inertial waves in rotating grid turbulence. Physics of Fluids 19: 071701, 1-4.
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Courses

Course 'Introduction to Oceanography' (RUG), 26 March – 5 April. Contact person prof. dr. H.J.W. de Baar.
This annual course started already in 1931 at the Zoological Station in Den Helder, and from 1965 onwards it has been a joint course between NIOZ and the University of Groningen. In 2007 there were 21 students participating including 3 foreign students. The first part was in Groningen in February and comprised introductory lectures and workshop style lectures (mostly presented by the students themselves), followed by a written examination. The practical part coordinated by dr. H. Zemmelink was held at Royal NIOZ from 26 March-5 April. About 20 NIOZ colleagues contributed to various parts of the course. Three teams of 5-6 students were doing fieldwork in a rotating scheme between (i) two day cruises with RV Navicula in the Wadden Sea, (ii) two day time series biology at the jetty, and (iii) two days time series chemistry at the jetty. Another, fourth, team of 4 students pursued two parallel projects on (iv) organic contaminants and (v) marine optics. The combined datasets of observations on interacting physics, chemistry and biological primary productivity were assembled, interpreted and finally reported by the students in a suite of powerpoint presentations.

Course 'Marine Ecosystems' (RUG), 11 -29 June. Contact person prof. dr. G.J. Herndl.
During the first week, lectures were given at the Groningen University (RUG) on the composition and regulation of pelagic and benthic food webs in the different ecological provinces of the world's oceans in general and the North Sea in particular. The second and the third week were devoted to practical work performed at NIOZ in the BIO and MEE departments. The 24 students were distributed over 9 different topics. Some of the topics were more lab-oriented, others involved more extensive field work. The program comprised research on the metabolism of selected benthic organisms such as on the cold water coral, *Lophelia pertuso* and on pelagic communities. Sampling was performed in the North and Wadden Sea with the R/V Navicula. Underlying research questions, the methods used and the results obtained were discussed during powerpoint presentations by each group at the end of the course and reported in paper-like manuscripts.

NCK summer school 2007, 25 June-6 July. Contact person prof. dr. H. Ridderinkhof
The Netherlands Centre for Coastal Research (NCK) in which different universities and institutes participate, organized a summer school on coastal (morpho) dynamics at NIOZ. The summer school was coordinated by dr. H. Winterwerp. PhD students and some scientists from institutes participated. The summer school consisted of lectures and practical training. Lectures were given by professors and senior scientists from the associated partners of NCK. Practical training was done by executing a short field program and analyzing the data by groups of participants. In the evening general lectures on oceanographic research were given. The summer school was finished with a presentation of the different groups on the results of their data analysis.