

PUBLICATIONS AND PRESENTATIONS

Ecological Role of Planktonic Bacteriophages in the North Sea and the Tropical Atlantic Ocean

A geochemical study of lacustrine sediments: towards palaeo-climatic reconstructions of high Andean biomes in Colombia

Exploring stable isotopic variation in sclerochitonian coral tissue and skeleton
Proxies for climate, ecological plasticity and coral functioning

Life history variation of a marine bivalve (*Macoma balthica*) in a changing world

Jan Drent

GEOLINGUA ULTRAEUCYNA

Library
NIOZ
Texel

Short-term sediment resuspension on the continental slope: geochemical implications: the Farnes Shetland Channel

Jérôme BONNIN

38Jd
39

Monitoring the variability of sea level and surface circulation with satellite altimetry

Denis L. Volkov

Dissertations

- Bonnin, J. Short-term sediment resuspension on the continental slope and geochemical implications: the Faeroe-Shetland Channel. Utrecht University, 152 pp.
- Boom, A. A geochemical study of lacustrine sediments: towards palaeo-climatic reconstructions of high Andean biomes in Colombia. University of Amsterdam, 125 pp.
- Drent, J. Life history variation of a marine bivalve (*Macoma balthica*) in a changing world. University of Groningen, 192 pp.
- Maier, C. Exploring stable isotopic variation in scleractinian coral tissue and skeleton. Proxies for climate, ecological plasticity and coral functioning. University of Amsterdam, 120 pp.
- Van Gils, J.A. Foraging decisions in a digestively constrained long-distance migrant, the red knot (*Calidris canutus*). University of Groningen, 352 pp.
- Volkov, D. Monitoring the variability of sea level and surface circulation with satellite altimetry. University of Utrecht, 152 pp.
- Winter, C. Ecological role of planktonic bacteriophages in the North Sea and the tropical Atlantic Ocean. University of Groningen, 71 pp.

Refereed papers in scientific journals

1. Agogue, H., E. Casamayor, F. Joux, I. Obernosterer, C. Dupuy, F. Lantoiné, P. Catala, M.G. Weinbauer, T. Reinthaler, G.J. Herndl & P. Lebaron. Comparison of samplers for the biological characterization of the sea surface microlayer. *Limnol. Oceanogr.: Methods* 2: 213-225.
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3. Baker, A.J., P.M. Gonzalez, T. Piersma, L.J. Niles, I. de Lima S. do Nascimento, P.W. Atkinson, P. Collins, N.A. Clark, C.D.T. Minton, M.K. Peck & G. Aarts. Rapid population decline in red knots: fitness consequences of decreased refuelling rates and late arrival in Delaware Bay. *Proc. R. Soc. Lond. B* 271: 875-882.
4. Battley, P.F., T. Piersma, D.I. Rogers, A. Dekinga, B. Spaans & J.A. Van Gils. Do body condition and plumage during fuelling predict northward departure dates of great knots (*Calidris tenuirostris*) from north-west Australia? *Ibis* 146: 46-60.

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- De Haas, H., T.C.E. Van Weering, F. Mienis & H.C. De Stigter. Morphology and sedimentology of carbonate mounds at the South Rockall Trough margins. Euromargins Conference, Barcelona, Spain, 11-13 November.
- De Stigter, H.C. & T.C.E. Van Weering. Sediment dynamics of the Nazaré Canyon, Portuguese Atlantic margin. 7th Netherlands Earth Sciences Congress, Veldhoven, 5-6 April.
- Drijfhout, S. & L.R.M. Maas. Impact of rotation and channel geometry on the trapping of internal tides. Symposium on ocean mixing, Victoria, BC Canada, 12 October.
- Esparza, M., J.O. Grimalt, T. Richter & T.C.E. Van Weering. Bidecadal sea surface temperature changes in Feni Drift during the Holocene. 8th International Conference on Paleoceanography, Biarritz, France, 5-10 September.
- Forster, A., S. Schouten & J.S. Sinninghe Damsté. Applying the TEX₈₆ proxy to Cretaceous black shales: Sea-surface temperature reconstruction in a greenhouse world. Gordon Research Conference on Organic Geochemistry, Gordon Research Conference on Organic Geochemistry, Holderness, NH, USA, 8-14 August.
- Groot, M.A.M., H. Hooghiemstra, J.H.F. Jansen & J.C. Berrio Mogollon. Last glacial decadal-to-centennial multi-proxy record of climate variability from Colombian Lake Fuquene: presentation of a next-generation project. 7de Nederlands Aardwetenschappelijk Congres, Veldhoven, 5-6 April.
- Hagelin, J., L.E.L. Rasmussen & J. Reneerkens. Preen gland secretions of a scented and unscented seabird. 26th Annual Meeting of the Association for Chemoreception Sciences, Sarasota, Florida, USA, 23 April
- Huckins, J.N., K. Booij, W.L. Cranor, D.A. Alvarez, M. Bartkow, J.A. Lebo, C.E. Orazio, R.C. Clark, J.D. Petty, G.L. Robertson & J. Mueller. Status of

- SPMD development: progress, considerations and research needs. 4th SETAC World Congress, Portland, Oregon, USA, 14-18 November.
- Huguet, C., A. Schimmelmann, C. Wuchter & S. Schouten. Application of a new organic temperature proxy, the TEX86, to reconstruct 20th century El Niño occurrence from Santa Barbara Basin. 8th International Conference on Paleoceanography, Biarritz, France, 5-10 September.
- Ivanochko, T.S., R. Ganeshram, D. Kroon, M.R. Fontugne, G. Ganssen, G.J.A. Brummer & S. Moreton. Rapid variations in the biogeochemistry of the Arabian Sea determined using multi-proxy comparisons from Indian and Somali margin cores. AGU, USA, December 2003.
- Kissel, C., C. Laj, T. Richter, H. Flesche-Kleiven, J. Duprat, J.-L. Turon & L. Labeyrie. Holocene variations in the strength of the North Atlantic Deep Water, a magnetic approach. 8th International Conference on Paleoceanography, Biarritz, France, 5-10 September.
- Loncaric, N., G.J.A. Brummer & D. Kroon. Foraminiferal carbonate export flux at the Walvis Ridge (S. Atlantic): lunar forcing or spring bloom? ICP8, Biarritz, France, 5-10 September.
- Maas, L.R.M. & U. Harlander. Equatorial wave attractors and inertial oscillations. 21st Int. Congress of Theoretical and Applied Mechanics, Warsaw, Poland, August 15-21.
- Maier, C., M.G. Weinbauer, J. Pätzold & R.P.M. Bak. Nitrogen and carbon utilization as indicated by tissue isotopic composition of the tropical reef coral *Madracis* spp. EGU, 1st General Assembly, Nice, France.
- Marret, F., J. Scourse, J.H.F. Jansen, L. Dupont & N. Shi. Dinoflagellate cyst records in the eastern equatorial Atlantic: Late Pleistocene and Holocene tropical sea surface temperatures. 8th International Conference on Paleoceanography, Biarritz, France, 5 - 10 September.
- Mienis, F., T. Van Weering, H. De Haas, H. De Stigter, A. Wheeler & V. Huvenne. Distribution and morphology of carbonate mounds at the Southwest Rockall Trough Margin as shown on high resolution TOBI images, EGU Geophysical Research Abstracts, Vol. 6, Nice, France, 25 - 30 April.
- Mienis, F., T. Van Weering, H. De Stigter, H. De Haas & T. Richter. Watermass properties over mounds in the Gulf of Cadiz and the SW Rockall Trough margin, Euromargins conference, Barcelona, Spain, 17 – 21 November.
- Pancost, R.D., S. Pressley, L. Benning, B. Mountain, H.M. Talbot, P. Farrimond, S. Schouten & J.S. Sinninghe Damsté. A plethora of unusual compounds in hydrothermal sinters: Reflections of microbial adaptation to extreme

- environments and high temperature diagenesis, Gordon Research Conference on Organic Geochemistry, Holderness, NH, USA, 8-14 August.
- Parada, V., E. Sintès & G.J. Herndl. Diel dynamics in virioplankton activity. CIESM congress, Barcelona, Spain, June.
- Peeters, F.J.C., R. Acheson, G.J.A. Brummer, W.P.M. De Ruijter, G.M. Ganssen, R.R. Schneider, E. Ufkes & D. Kroon. Vigorous exchange between the Indian and Atlantic Ocean at the end of the last five glacial periods. ICP8, Biarritz, France, 5-10 September.
- Philippart K., P. Van 't Hof, F. Van Der Meer, J. Van Bleijswijk & A. Bol. Identificatie van schelpdierlarven. Open Dag Koninklijk NIOZ, 23 October.
- Powers, L.A., J.P. Werne, T.C. Johnson, I.S. Castañeda, E.C. Hopmans, J.S. Sinninghe Damsté & S. Schouten. An independent paleotemperature reconstruction through the Last Glacial Maximum in Lake Malawi, East Africa. PAGES meeting, Nairobi, 28-30 July.
- Powers, L.A., J.P. Werne, T.C. Johnson, I.S. Castañeda, E.C. Hopmans, J.S. Sinninghe Damsté & S. Schouten. An independent paleotemperature proxy for continental paleoclimate reconstruction: Development and application of TEX86 in lakes. Gordon Research Conference on Organic Geochemistry, Holderness, New Hampshire, USA, 8-14 August.
- Powers, L.A., T.C. Johnson, J.P. Werne, I.S. Castañeda, E.C. Hopmans, J.S. Sinninghe Damsté & S. Schouten. Large temperature variability in a southern tropical continental setting through the last glacial maximum. AGU Fall Meeting, San Francisco, USA, 13-17 December.
- Ramos A., M. Dopico, R. Bao, M. Heubeck, D. Humple, C.J. Camphuysen & Antonio Sandoval Rey. The Prestige incident: assessing the impact of a major oil spill. 8th Intern. Seabird Group Conference "North Atlantic Seabird Populations". King's College Conference Centre, University of Aberdeen, UK, 2-4 April
- Rampen, S.W., B.A. Abbas, G. Muyzer, S. Schouten & J.S. Sinninghe Damsté. Reconstruction of the evolution of diatoms using molecular fossils. Gordon Research Conference on Organic Geochemistry, Gordon Research Conference on Organic Geochemistry, Holderness, NH, USA, 8-14 August.
- Reneerkens, J., T. Piersma & J. Sinninghe Damsté. Functional aspects of shifts in preen wax composition in shorebirds. Course on Life History Theory, Graduate School Functional Ecology, Schiermonnikoog, 11-15 October

- Richter, T.O., C. Kissel & C. Laj. Holocene terrigenous input patterns and bottom current variability in the NW Atlantic Ocean: Preliminary results. 8th International Conference on Paleoceanography, Biarritz, France, 5-10 September.
- Ridderinkhof, H. The LOCO (Long-term Ocean Climate Observations) programme in the Netherlands. CLIVAR conference. Baltimore, USA, 21-25 June.
- Schefuß, E, S. Schouten, P.M. Grootes, J. Rullkötter & R.R. Schneider. Multi-isotopic analyses of terrigenous lipid biomarkers reveal ocean-climate-vegetation linkages in tropical Africa. 8th International Conference on Paleoceanography, Biarritz, France, 5-10 September.
- Schefuß, E., J.-B. Stuut, J.H.F. Jansen & J.S. Sinninghe Damsté. Stable carbon isotopes of plant-wax lipids in dust and sediments from the central east-Atlantic. EUG General Assembly, Nice, France, 26-30 April.
- Stadnitskaia, A., G. Muyzer, B. Abbas, M.J.L. Coolen, E.C. Hopmans, M. Baas, T.C.E. Van Weering, M.K. Ivanov, E. Poludetkina & J.S. Sinninghe Damsté. Biomarker and 16S rRNA evidence for anaerobic oxidation of methane and related carbonate precipitation in deep sea mud volcanoes of the Sorokin Trough, Black Sea. 10th International Symposium on microbial ecology ISME-10: Microbial Planet: sub-surface to space, Cancun, Mexico, 22-27 August.
- Stadnitskaia, A., H. Niemann, A. Boetius, C. Pierre, I. Bouloubassi & the NAUTINIL Scientific Party. Lithological characteristics of seep-related sediments recovered during Nautile dives on the Nile deep-sea fan, Eastern Mediterranean. European Geosciences Union 1st General Assembly, Nice, France, 25 - 30 April.
- Terra, G.M., W.J. Van de Berg, L.R.M. Maas & A. Doelman. Experiments on an idealized nonlinear tidal resonator. Symposium on Nonlinear Systems, Enschede, 10 & 11 June.
- Terra, G.M., W.J. Van de Berg, L.R.M. Maas & A. Doelman. Experiments on an idealized nonlinear tidal resonator. FOM-Congres Stroming en Warmte, Veldhoven, 8 & 9 November.
- Timmermans, K.R., B. Van Der Wagt & H.J.W. De Baar. Growth rates, half saturation constants, and nitrate, silicate and phosphate uptake in relation to iron availability in 4 large open Southern Ocean diatoms. NECOV symposium "Ecology of aquatic micro-organisms", UvA Amsterdam, 19 May.
- Timmermans, K.R., L. Van Opstal, E. Van Tellinghen, C.P.D. Brussaard & M.J.W. Veldhuis. Growth and mortality of Antarctic diatoms in relation to environ-

- mental factors. Nederlands Polair Programma symposium, Teylers Museum, Haarlem, 10–11 May.
- Ufkes, E., J.H.F. Jansen, R.R. Schneider & D. Kroon. The whereabouts of *Globorotalia truncatulinoides sinistral* in the South Atlantic during the last million years. 8th International Conference on Paleoceanography, Biarritz, France, 5 - 10 September.
- Van Den Bergh, G.D., G-J. Brummer, S.A. Verbeek, J.H. Kneepkens, D. Kusnida, S. Lubis, Y. Noviadi, K. Budiono, W. Boer, F. Ariese & G. Ganssen. Porites coral as monitor of seasonal rainfall fluctuations and climatic change (ENSO). Workshop on East Kalimantan Research Programme, Pilot phase, Jakarta, Indonesia, 24-26 May.
- Van Dongen, B.E., P.N. Pearson, S. Schouten & R.D. Pancost. An insight into tropical Cretaceous and Paleogene depositional environments using unusually pristine sediments in Tanzania. Gordon Research Conference on Organic Geochemistry, Gordon Research Conference on Organic Geochemistry, Holderness, NH, USA, 8-14 August.
- Van Duyl, F.C. & J.M. De Goeij. Nano- and picoplankton abundance and its depletion by coral reef benthos off East Kalimantan. WOTRO 40 Year Symposium, Amsterdam, 10 November
- Van Duyl, F.C. & J.M. De Goeij. Picoplankton abundance and its depletion by coral reef benthos off East Kalimantan. The joint Indonesia-the Netherlands Symp. on the results of East Kalimantan Pilot Phase Program, Jakarta, Indonesia. 24-26 May.
- Van Haren, H., R. Groenewegen, M. Laan & B. Koster. A fast thermistor string (v. 2) for monitoring (sloping) bottom boundary layer processes and internal waves. 1st EGU General Assembly, Nice, France, 26-30 April.
- Volkov, D.L. Complex singular value decomposition analysis of eddy kinetic energy field in the North Atlantic Current, EGU general assembly, Nice, France, 26-30 April.
- Weijers, J.W.H., S. Schouten, E.C. Hopmans, E. Schefuß & J.S. Sinninghe Damsté. Branched tetraether lipids: A new tool for palaeoclimate studies? Gordon Research Conference on Organic Geochemistry, Gordon Research Conference on Organic Geochemistry, Holderness, NH, USA, 8-14 August.
- Wernand, M. The Arcane Colouring of Natural Waters; from Bacon to Raman. Ocean Optics XVII, Fremantle, Australia, 25-29 October

Wilke, I., F.J.C. Peeters & G.J.A. Brummer. Identification of the Agulhas leakage planktic foraminiferal assemblage. ICP8, Biarritz, France, 5-10 September.

Oral presentations

- Amaro, T., S. Schulting & G. Duineveld. Possible causes of shifts in the Frisian Front macrofauna? The 33rd Annual Marine Benthic Ecology Meeting, Mobile, Alabama, USA, 25-28 March.
- Amaro, T., S. Schulting & G. Duineveld. Possible causes of shifts in the Frisian Front macrofauna? CIMAR, Porto, Portugal, December.
- Amaro, T. Changes in the benthic community in the southern North Sea. Environment Research in context, Apeldoorn, 1-4 March.
- Amaro, T., P. Tyler & G. Duineveld. Does the northern bivalve species *Mya truncata* reproduce at its southern distribution limit? Preliminary results. Verweij-PhD meeting, Texel, January.
- Arrieta, J.M., E. Sintès, T. Reinthaler & G.J. Herndl. Ectoenzymatic hydrolytic activities in the sea surface microlayer. CIESM congress, Barcelona, Spain, June.
- Bak, R.P.M. & G. Nieuwland, Constancy and change in deep reef environments. 10th Int. Coral Reef Symp. Okinawa, Japan, 28 June - 2 July.
- Bak, R.P.M. Coral Reef Ecosystems (Master Course Limnology and Oceanography) Lecture series, University of Amsterdam, November
- Bak, R.P.M. Coral reefs and sea floor morphology. KNAW/TNO Symposium geohazards and resources of the Netherlands Antilles. Utrecht, 23 September.
- Bak, R.P.M. The role of urchins as bio-eroders. Diadema Workshop. University of Miami, RSMAS Miami, USA, 19 - 20 March.
- Bak, R.P.M. Tropical Aquatic Ecology (Tropical Marine Biology) Lecture series, University of Amsterdam, January.
- Ballini, M., C. Kissel, C. Colin, T. Richter, M. Pagel, D. Blamart & L. Labeyrie. Deep hydrological changes in Northern North Atlantic during Heinrich 4 and Interstadials 7 and 8 based on a multi-proxy analysis. European Geophysical Society, Nice, France, 25-30 April.
- Booij, K. Chemical and toxicological background of the MARPOL treaty. Marine Environmental Awareness Course, NIOZ, 17 March.
- Booij, K. Chemical and toxicological background of the MARPOL treaty. Marine Environmental Awareness Course, NIOZ, 26 October.
- Booij, K. Passieve bemonstering: methodes en onmogelijkheden. Seminar "Meten wat los en vast zit". Den Haag, 23 June.

- Booij, K., J.N. Huckins & J.D. Petty. Calculating aqueous concentrations from SPMD-absorbed amounts. 1st International Passive Sampling Workshop and Symposium, Ceske Budejovice, CZ, 15-17 April.
- Boon, J.P., B.N. Zegers, A., Mets, R. Van Bommel, C. Minkenberg & T. Hamers. Stereo-isomer selective bioaccumulation of hexabromocyclododecane (HBCD) isomers in marine mammals from European seas. 3rd International Workshop on Brominated Flame Retardants, Toronto, Canada, 6-9 June.
- Boon, J.P., C.C. Ten Hallers-Tjabbes & M.J.W. Veldhuis. The use of natural seawater and automated analytical methods for testing of ballast water treatment units. Conference on ballast water and waste water treatment aboard ships and in ports, Bremen, 8-10 September. This presentation was also given at the 3rd inter-sessional meeting of the ballast water working group of the Marine Environmental Protection Committee (MEPC) of IMO, London, 4-8 October.
- Bos, O.G. Recruitment variation of *Macoma balthica*(L.): the role of larval food limitation. Recruitment Workshop, Royal NIOZ, Texel, 27 October.
- Brummer, G.J.A., F. Peeters, R. Acheson, I. Wilke, N. Loncaric & D. Kroon. The Holocene - Late Pleistocene history of Agulhas leakage. Atlantic-Indian Ocean exchange workshop, IMAU, Utrecht, 3 June.
- Brummer, G.J.A. Monsoonal upwelling and nitrogen cycling: fluxes and isotopes off Somalia. Cambridge University, U.K., 28 January.
- Brummer, G.J.A., S. Schouten & J. Ossebaar. Stable carbon and nitrogen characterisation of the Somali margin. 6C Annual Meeting, Blagnac, France, 10-12 September.
- Brussaard, C.P.D. & P. Ruardij. Viral role in phytoplankton population dynamics in relation to different environmental variables. International Symposium on Microbial Ecology, ISME-10, Cancun, Mexico, 22-27 August.
- Buehler, D.M. & T. Piersma. Phylogeographic reconstruction of the flyways of red knots within the last 20,000 years. Workshop of the European Science Foundation within the Bird Migration programme, Kalø, Denmark, 20-23 November.
- Buijsman, M.C. Lateral Current Structure in the Marsdiep Tidal Inlet. Nederlands Centrum voor Kustonderzoek (NCK), Ierseke, March.
- Buijsman, M.C. ADCP observations of secondary circulation in the Marsdiep tidal inlet, the Netherlands. 1st EGU General Assembly, Nice, France, 26-30 April.

- Cadée, G.C. Drifting seeds and fruits. Nationaal Herbarium Leiden, 21 January
- Cadée, G.C. Fragmented shells more interesting than entire? Annual conference KNNV, Arnhem, 17 April.
- Cadée, G.C. History of Royal NIOZ. Friends of Teylers Museum, Texel, 6 April
- Cadée, G.C. Research and facilities Royal NIOZ at Texel. Visit KNNV Den Helder, Texel, 12 June.
- Cadée, G.C. Tropical drift seeds from the Dutch coast. KNNV Den Helder, 29 October.
- Camphuysen, C.J. Area-specific feeding behaviour of central place foraging Northern Gannets *Morus bassanus* from the Bass Rock (North Sea). 8th Intern. Seabird Group Conference "North Atlantic Seabird Populations". King's College Conference Centre, University of Aberdeen, UK, 2-4 April.
- Camphuysen, C.J. Census techniques for seabirds at sea: towards the identification of key foraging areas from ship-based surveys. Congresso Internacional Aves do Atlantico, Sao Vicente, Madeira, Portugal 29, October.
- Camphuysen, C.J. Seabird distribution and oceanic upwelling off northwest Africa. Congresso Internacional Aves do Atlantico, Sao Vicente, Madeira, Portugal, 1 November.
- Camphuysen, C.J., B. Scott. & S. Wanless. The distribution and inter- and intra-specific foraging interactions of seabirds and marine mammals of the north-western North Sea: long-term and large-scale patterns reflecting shifts in prey availability and species-specific responses to predictable foraging opportunities. Conference "Management of Marine Ecosystems: monitoring change in upper trophic levels", Zoological Society of London, UK, 22-23 April.
- Cardoso, J.F.M.F., D. Langlet, J.F. Loff, A.R. Martins, J.I.J. Witte & H.W. Van Der Veer. Spatial and temporal variability in growth and reproduction of the Japanese cupped oyster *Crassostrea gigas* (Thunberg, 1793): are they adapting to northern European waters? ICES Annual Science Symposium, Vigo, Spain, 22-25 September.
- Cardoso, J.F.M.F., D. Langlet, J.F. Loff, A.R. Martins, J.I.J. Witte, J. Van Bleijswijk, A. Bol & H.W. Van Der Veer. Reproductive output of the Japanese cupped oyster *Crassostrea gigas* (Thunberg, 1793) along a latitudinal gradient. Recruitment Workshop, Royal NIOZ, Texel, 27 October.
- Cardoso, J.F.M.F., D. Langlet, J.F. Loff, A.R. Martins, J.I.J. Witte, & H.W. Van Der Veer. Is the Japanese cupped oyster *Crassostrea gigas* (Thunberg, 1793)

- adapting to northern European waters? CIIMAR, Universidade do Porto, Portugal, 6 October.
- Coolen, M.J.L., G. Muyzer, S. Schouten, J.K. Volkman & J.S. Sinninghe Damsté. Fossil DNA as a recorder of anaerobic sulfide oxidation in stratified lacustrine and marine environments. Gordon Research Conference on Organic Geochemistry, Holderness, NH, USA, 8-13 August.
- De Baar, H.J.W. Emissions by ships into the atmosphere. Marine Environmental Awareness Course for the Maritime Schools; Texel, 16 March, 26 October.
- De Baar, H.J.W. Lecture Series Oceanography, University of Groningen, 9-20 February.
- De Baar, H.J.W. Role of the Oceans in the High-CO₂ World. Invited keynote lecture at symposium: Fossil Fuels: Reserves and Alternatives - A Scientific Approach; Royal Netherlands Academy of Arts and Sciences, Amsterdam, 9 December.
- De Baar, H.J.W. Six lectures in ECOLMAS Introductory Course Oceanography, 17 November.
- De Baar, H.J.W. Synthesis of eight *in situ* iron enrichment experiments in the oceans. Invited keynote lecture at: Symposium on the Oceans in a High-CO₂ World, SCOR-IOC-UNESCO, Paris, 11 May; also presented at Université de Bretagne Occidentale, Brest, 8 October and as invited colloquium at Southampton Oceanography Centre, 5 November.
- De Bruin, T.F. Data flow and data dissemination during the IPY 2007-2008 – Building on experiences in oceanography. SCAR Open Science Conference at XXVIII SCAR & COMNAP XVI meeting. 25-31 July 2004, Bremen, Germany.
- De Bruin, T.F. Nationale Infrastructuur voor ontsluiting van Oceanografische en Mariene Data en Informatie – Doelen en introductie van de NODC WorkshopNODC Workshop, Slot Moermond, Renesse, 14 – 15 April.
- De Bruin, T.F. De NODC in een internationaal kader. NODC Workshop, Slot Moermond, Renesse, 14 - 15 April.
- De Bruin, T.F. Data Management bij het NIOZ. NODC Workshop, Slot Moermond, Renesse 14 – 15 april.
- De Bruin, T.F. Results from a questionnaire on CTD practices. ICES WGMDM Annual Meeting, Brussels, Belgium, 3-5 May
- De Bruin, T.F. A survey of guidelines on data collection and data management. ICES WGMDM Annual Meeting, Brussels, Belgium, 3-5 May.

- De Bruin, T.F. Data management activities within The Netherlands over the past year. ICES WGMDM Annual Meeting, Brussels, Belgium, 3-5 May
- De Bruin, T.F. Recent developments within the Netherlands National Oceanographic Data Committee. SeaSearch Full Group Meeting, Limassol, Cyprus, 25-26 May
- De Goeij, J.M. & F.C. Van Duyl. Coral cavities are sinks of dissolved organic carbon. 10th Int. Coral Reef Symp., Okinawa, Japan, 28 June-2 July
- De Haas, H., T.C.E. Van Weering & F. Mienis. Moundforce at the Royal Netherlands Institute for Sea Research. Moundforce Workshop, Barcelona, Spain, 10 November.
- De Haas, H., T.C.E. Van Weering, H.C. De Stigter, T.O. Richter & F. Mienis. Morphology and sedimentology of carbonate mounds on the south Rockall Trough margins, NE Atlantic Ocean. 1st General Assembly European Geosciences Union, Nice, France, 25-30 April.
- De Leeuw, J.W. International Census of Marine Microbes (ICoML), POGO Meeting, Brest, France, 1 December.
- De Leeuw, J.W. & J. Gould. GEO and Architecture group, POGO Meeting, Brest, France, 30 November.
- De Leeuw, J.W. Biogeology of higher plants and algae; a few examples. University of Utrecht, 28 October.
- De Leeuw, J.W., BIO voor GEO of GEO voor BIO, that's the question. H. Speelman Symposium, TNO-NITG, Delft, 22 April.
- De Leeuw, J.W., G.J.M. Versteegh, A. Van Mourik, J. Warnaar, N. Dammers, P. Blokker, H. Brinkhuis & P.F. Van Bergen. Macromolecules in modern and fossil spores, pollen and algae, Granada, Spain, 4-9 July.
- De Stigter, H.C. & T.C.E. Van Weering. Sediment transport and deposition in the Nazaré Canyon, Portuguese Atlantic margin. Joint Eurodelta – Eurostrataform Annual Meeting, Venice, Italy, 20-23 October.
- Dekker, R. Determinants of benthic community structure. NEBROC-ECOLMAS introductory course in marine sciences, NIOZ, 15-26 November.
- Duineveld, G. Recruitment of subtidal benthos: the development and use of autonomous larval and post-larval traps. Recruitment Workshop, Royal NIOZ, 27 October.
- Epping, E. Early diagenetic processes and organic carbon mineralization. Introduction in Oceanography. Groningen University, 13 February.
- Epping, E., On the early diagenesis of organic matter. NEBROC course, NIOZ, 18 November.

- Forster, A., M. Baas & J.S. Sinninghe Damsté. Black shale deposition during the Cenomanian/Turonian anoxic event: compound specific $d^{13}C$ -isotope records from different key-locations. 7th Nederlands Aardwetenschappelijk Congres (NAC 7), Veldhoven, 5-6 April.
- Garcia, A.C., H. Coelho, P.C. Leitão, H.C. De Stigter, T.C.E. Van Weering & R. Neves. Internal tide influence on sediment resuspension in Nazaré Canyon and adjacent areas. Joint Eurodelta – Eurostrataform Annual Meeting, Venice, Italy, 20-23 October.
- Gerkema, T. Internal waves: the inner unrest in the ocean. BBOS Autumn Symposium, Schoorl, 5 November.
- Gerkema, T. Near-inertial waves: a "non-traditional" view. University of Waterloo, Belgium, 19 October.
- Harlander, U. A high latitude quasigeostrophic delta plane model derived from spherical geometry. 1st EGU General Assembly, Nice, France, 26-30 April.
- Harlander, U. & A. Will. Eigenschaften extrem wachsender Rossbywellenzuege im Zeitraum 1959-99. DACH Meteorologen Tagung, Karlsruhe, Germany, 7-10 September.
- Herfort, L., S. Schouten & J. S. Sinninghe Damsté. Marine Archaea: missing in the Carbon Cycle? 7th Nederlands Aardwetenschappelijk Congres (NAC 7), Veldhoven, 5-6 April.
- Hosegood, P. & H. Van Haren. Observations of boundary mixing in the pycnocline in the Faeroe-Shetland Channel -- Internal tides versus atmospheric forcing. AGU-Ocean Sciences meeting, Portland, OR, USA, 26-30 January.
- Hosegood, P. & H. Van Haren. The evolution of strong near-bed density fronts in the Faeroe-Shetland Channel. 1st EGU General Assembly, Nice, France, 26-30 April.
- Huguet, C., C. Wuchter, A. Van Vos Avezathe, J.H. Kim, J.S. Sinninghe Damsté & S. Schouten. Validation and application of a new organic paleothermometer, the TEX86: A multiproxy-study of the Last Glacial Maximum in the Arabian Sea. 7th Nederlands Aardwetenschappelijk Congres (NAC 7), Veldhoven, 5-6 April.
- Jansen, J.H.F. Paleoceanography, General circulation. NEBROC-ECOLMAS Introductory Course in Marine Sciences. NIOZ, 24 November.
- Jansen, J.H.F. Paleoceanography, Terrigenous proxies. NEBROC-ECOLMAS Introductory Course in Marine Sciences. NIOZ, 24 November.

- Jansen, J.H.F. Why ice ages, and what does the ocean floor tell about them?
Openbare Scholengemeenschap De Hogeberg, Den Burg, 28 September,
22 November.
- Jukema, J., T. Piersma, C. Both, Y. Verkuil & N. Karlionova. Small male ruffs with
feminine plumages: evidence for a third reproductive strategy, the faeder?
Wader Study Group Annual Conference, Papenburg, Germany, 4-7
November.
- Kissel, C., C. Laj, T. Richter, H. Flesche-Kleiven, J. Duprat, J.-L. Turon & L.
Labeyrie. Holocene variations in the strength of the North Atlantic Deep
Water, a magnetic approach. American Geophysical Union Fall Meeting,
San Francisco, USA, 13-17 December.
- Koning, E. Early diagenesis of biogenic silica. NEBROC course, NIOZ, 18
November.
- Koning, E. The preservation potential of biogenic silica. Proper 2 course,
Barcelona, Spain, 9 November.
- Kuypers, M.M.M., G. Lavik, D. Wöbken, M. Schmid, B.M. Fuchs, M. Strous, S.
Schouten, C. Schubert, R. Amann, B. Barker Jørgensen & M.S.M. Jetten.
Anaerobic ammonium oxidation, a new sink in the marine N-cycle. Gordon
Research Conference on Organic Geochemistry, Gordon Research
Conference on Organic Geochemistry, Holderness, NH, USA, 8-14
August.
- Lavaleye, M.S.S. & J.I.J. Witte. Veertien programma's over diverse onderwerpen
uit het natuurleven in zee, uitgezonden tijdens Natuurwijzer, een radiopro-
gramma over de natuur en het milieu op Texel, Radio Texel.
- Lavaleye, M.S.S. & S. Thatje. First results of the four ALTRAP-lander deploy-
ments in the Weddell Sea, Antarctica. ANT XXI/2 expedition, Polarstern,
Antarctica, 10 January.
- Maas, L.R.M. A mechanical model of convection: first experimental results
obtained with the upward-driven pendulum. 1st EGU General Assembly,
Nice, France, 26-30 April.
- Maas, L.R.M. & H. Van Haren, Dead water.... as possible explanation for fair-
weather drowning. IMAU, Utrecht University, 2 December.
- Maas, L.R.M. & H. Van Haren. Near-inertial internal wave passage through a
deep mixed layer. 1st EGU General Assembly, Nice, France, 26-30 April.
- Maas, L.R.M. Modelling convection in terms of the dynamics of the centre-of-
mass. Symposium on nonlinear systems, University of Twente, 10 June.

- Maas, L.R.M. Wave attractors. Geophysical Fluid Dynamics Summerschool, Woods Hole Oceanographic Institute, USA, 9 August.
- Maier, C., J. Pätzold, M. Weinbaue & R.P.M. Bak, Nitrogen/carbon isotopic composition of *Madracis* spp. as indicator for nitrogen/carbon assimilation and utilization in shallow and deep reefs. 10th Int. Coral Reef Symp., Okinawa, Japan, 28 June-2 July
- Meltofte, H., T. Piersma, H. Boyd, et al. Vulnerability of arctic shorebirds to climate variability and change. Plenary lecture at CAFF meeting, Reykjavik, Iceland, 9 November.
- Merckelbach, L.M. ADCP measurements of suspended sediment tidal inlets. University of Plymouth, School of Earth, Ocean and Environmental Sciences. Plymouth, UK, 17 November.
- Merckelbach, L.M. & H. Ridderinkhof. ADCP measurements of suspended sediment transport of in the Texel tidal inlet. International conference on Physics of Estuaries and Coastal Seas (PECS) Merida, Mexico, 18-22 October.
- Merckelbach, L.M. Estimating suspended sediment concentration from ADCP acoustic backscatter profiles in the Marsdiep tidal inlet. 2nd Annual meeting of FerryBox, Southampton, UK, 4-7 October.
- Mienis, F., T. Van Weering, H. De Haas, H. De Stigter, A. Wheeler & V. Huvenne. Distribution and morphology of carbonate mounds at the southwest Rockall Trough Margin as shown on high resolution TOBI images, 7th NAC Congres, Veldhoven, 5 – 6 April.
- Pancost, R.D., S. Pressly, J.M. Coleman, L. Benning & J.S. Sinninghe Damsté, B.O. Mountain. Organic geochemical insights into the role of microorganisms during mineral precipitation. Water-Rock Interaction Conference, Saratoga Springs, NY, USA, 27 June-2 July.
- Philippart, C.J.M. & S.J. Hawkins. Towards a pan-European network of marine settlement frames. Kick-off meeting Theme 2 of European network of excellence on marine biodiversity and ecosystem functioning, Palma de Mallorca, Spain, 17-19 May.
- Philippart, C.J.M. Climate-induced effects on the reproduction of benthic invertebrates, and the potential for biological invasions in marine ecosystems. Current Themes in Ecology, Wageningen, 18 November.
- Philippart, C.J.M. External influences on the Wadden Sea foodweb (1970-2003): Eutrophication, Shellfish Fisheries & Climate Change. Lecture Water Quality in Dutch Coastal Ecosystems Course, RUG Groningen, 10 May.

- Philippart, C.J.M. External Influences on the Wadden Sea Foodweb (1970-2003): Eutrophication, Shellfish Fisheries & Climate Change. Lecture NEBROC Course, Royal NIOZ, 23 November.
- Philippart, C.J.M. Mechanisms to explain recruitment variation of *Macoma balthica* during the larval and post-larval phase. SUSUSE Final Workshop, Royal NIOZ, Texel, 1 June.
- Philippart C.J.M., J.J. Beukema, G.C. Cadée & R. Dekker. Effects of variation in nutrient loadings on the trophic state of the western Wadden Sea. Workshop Carrying capacity Wadden Sea, Utrecht, 24 March.
- Philippart, C.J.M., O.G. Bos, E. Gontikaki & S.A.L.M. Kooijman. The role of phenotypic plasticity in age and size at metamorphosis of the marine bivalve *Macoma balthica*. Recruitment Workshop, Royal NIOZ, 27 October.
- Piersma, T. (Un)sustainable fisheries. Undergraduate course introductory ecology, University of Groningen, 24 September.
- Piersma, T. Bottlenecks in annual cycles – solutions of migratory shorebirds. Symposium Royal Dutch Zoological Society (KNDV) on 'Coping with environmental challenges', Haren, 3 June.
- Piersma, T. From benthic community ecology to predator population ecology: a review. CEES-lecture, University of Groningen, 4 March.
- Piersma, T. Is there still space for black-tailed godwits and ruffs in Friesland? Annual Meeting It Fryske Gea, Wommels, 25 May.
- Piersma, T. Large-scale assessment of reproductive success in shorebirds. Wader Study Group Annual Conference, Papenburg, Germany, 4-7 November.
- Piersma, T. Lecture series on 'Dispersal & migration' and on 'Disease & parasitism' in undergraduate course 'Animal ecology –research', University of Groningen, 24 March.
- Piersma, T. Lecture series on fisheries biology. Undergraduate course Experimental Ecology, University of Groningen, 10 March.
- Piersma, T. Migration in balance: tight ecological margins and the changing fortunes of waterbird populations. Plenary Lectury Wetlands International Conference "Waterbirds around the world", Edinburgh, UK, 3-8 April.
- Piersma, T. Migration: negotiating variable ecological paths through space and time. Plenary lecture at Congress of the American Ornithological Union, Quebec, Canada, 16-23 August.

- Piersma, T. Protecting the inspirational shorebirds worldwide. Wetlands International 50th Anniversary Executive meeting, Bangkok, Thailand, 25 November.
- Piersma, T. Rapid evolutionary changes in the migrations of red knots: does the passerine model apply? Workshop of the European Science Foundation on the evolution of bird migration, Papenburg, Germany, 10-12 March.
- Piersma, T. Series of 6 lectures in Topmaster course 'Adaptation, Biodiversity and Conservation', University of Groningen, November.
- Piersma, T. Series of four lectures on vertebrate morphology, physiology and evolution. First year course on Biodiversity, University of Groningen, October.
- Piersma, T. Tales of four shorebirds of the open Frisian countryside. Annual meeting Fryske Akademy, Leeuwarden, 20 November.
- Piersma, T. The value of finding out – past, present and future of research in and around Roebuck Bay. Summary statement at Day of the Bay, Broome, Australia, 3 July.
- Piersma, T. Wadden Sea, red knots and beyond, with a brief review of the mudwork in Roebuck Bay. Lecture at Department of Conservation and Land Management, Perth, Australia, 12 July.
- Piersma, T., C. Kraan, A. Dekinga & J.J. Beukema. Long-term research on sediments and the macrozoobenthic communities of intertidal flats in relation to mechanical dredging for shellfish. Symposium on the effects of mechanical shellfishing organized by the Centre for Ecological and Evolutionary Studies (CEES), University of Groningen, 29 January.
- Poole, I., P.F. Van Bergen, J. Kool, S. Schouten & D.J. Cantrill. Can isotopic heterogeneity of fossil woods help determine palaeoclimate? International Association of Wood Anatomists International Symposium on Wood Sciences, Montpellier, France, 24-29 October.
- Poole, I., P.F. Van Bergen, J. Kool, S. Schouten & D.J. Cantrill. Reconstructing palaeoclimate from fossil wood: do carbon isotopes help or hinder? Swedish Museum of Natural History, Stockholm, Sweden, 5 March.
- Reneerkens, J. Schelpdiervisserij en kanoeten in de Waddenzee. Avifauna Groningen, Groningen, 11 February
- Reneerkens, J. Kokkelvisserij. Themamiddag "Milieu de moeite waard" Socialistische Partij, Den Helder, 21 February
- Reneerkens, J., T. Piersma & J. Sinninghe Damsté. Functional aspects of shifts in preen wax composition in shorebirds. Annual Conference International Wader Study Group, Papenburg, Duitsland, 6 November

- Rampen, S.W., G. Muyzer, B. Abbas, G. Massé, W.G. Allard, S.T. Belt, J.-M. Robert, S.T. Rowland, J.M. Moldowan, S.M. Barbanti, F.J. Fago, P. Denisevich, J. Dahl, L.A.F. Trindade, S. Schouten & J.S. Sinninghe Damsté. Molecular fossils as time indicators for the evolution of diatoms. 7th Nederlands Aardwetenschappelijk Congres (NAC 7), Veldhoven, 5-6 April.
- Rampen, S.W., S. Schouten, G. Muyzer, B. Abbas, F.E. Panoto, K.R. Timmermans, C.N. Campbell, D.H. Green, J. Fehling, J.M. Moldowan & J.S. Sinninghe Damsté. A diatomaceous origin for 24-norcholestanes in sediments and oils. Gordon Research Conference on Organic Geochemistry, Holderness, NH, USA, 8-14 August.
- Reinthal, T., J. Arristegui, P. leB Williams & G.J. Herndl. Prokaryotic production and growth yield in the North Atlantic Deep Water. Ocean Sciences Meeting, 16-20 February.
- Ridderinkhof, H. Current observations in the Mozambique Channel. ADCP's in action. Nice, France, 3-4 June
- Ridderinkhof, H. The LOCO (Long-term Ocean Climate Observations) programme in the Netherlands. OceanSites steering committee meeting. Puerto Rico, USA, 5-8 Januari.
- Schouten, S. Isotopic composition of alkenones: a proxy for CO₂ concentrations in the ocean? Benelux Isotope Users Meeting, Utrecht, 18-19 March.
- Schouten, S. 6C update on CO₂ reconstructions using the alkenone paleobarometer. Workshop Meeting EU project 6C, Blagnac, France, 11 September.
- Schouten, S. Cretaceous and Cenozoic sea surface temperatures using a new organic paleothermometer. Graduate course in Organic Geochemistry at the International University of Bremen, Bremen, Germany, 10 November.
- Schouten, S. Cretaceous and Cenozoic sea surface temperatures using a new organic paleothermometer. Workshop: Greenhouse climate can carbon cycle dynamics: lessons from the early Cenozoic. International University of Bremen, Bremen, Germany, 11 November.
- Schröder, J., J. Hooijmeijer, C. Both & T. Piersma. Which phenotypic traits are correlated with reproductive success in the black-tailed godwit? Wader Study Group Annual Conference, Papenburg, Germany, 4-7 November.
- Sinninghe Damsté, J.S. Samenwerking UU-NIOZ op het gebied van organische geochemie. Ondertekening samenwerkingsovereenkomst NIOZ-UU, Utrecht, 10 March.

- Sinninghe Damsté, J.S. Oxidation processes in anoxic environments. Gordon Research Conference on Organic Geochemistry, Gordon Research Conference on Organic Geochemistry, Holderness, NH, USA, 8-14 August.
- Sinninghe Damsté, J.S. De Atlantische Jacuzzi: de Aarde was al eerder een broeikaswereld. Open dag NIOZ, 23 October.
- Sinninghe Damsté, J.S. Het sedimentaire archief: moleculen van vroeger leven. Uitreiking Spinoza prijzen, Den Haag, 3 November.
- Sinninghe Damsté, J.S. Een wereld zonder polen? Arctisch weekend 2004. De Rijp, 12 November.
- Sinninghe Damsté, J.S. De warme oceaan-beelden van 100 miljoen jaar geleden. Opening Darwin centrum voor Biogeologie, Utrecht, 14 December.
- Sintes, E., G.J. Herndl. Bacterial activity in the surface microlayer of the open Mediterranean Sea. CIESM congress, Barcelona, June.
- Stadnitskaia, A. & J.S. Sinninghe Damsté. Composition and distribution of biomarkers related to the different seepage environments within the Nile deep sea fan, Eastern Mediterranean. Preliminary results. ESF-Euromargins meeting, MVSEIS-MOINDFORCE-MEDIFLUX: Margins geofluids. The Aveiro Forum, Aveiro, Portugal, 1-3 April.
- Stadnitskaia, A., M. Baas, V. Blinova, T.C.E Van Weering, M. Ivanov & J.S. Sinninghe Damsté. Distribution and stable carbon isotopic composition of biomarkers in methane-related carbonates and mud volcano sediments, the Sorokin Trough, NE Black Sea. International conference and twelfth Post-Cruise Meeting on the Training-Trough-Research programme: North Atlantic and Labrador Sea margin architecture and sedimentary processes, Copenhagen, Denmark, 29-31 January.
- Teira, E. & G.J. Herndl. Microautoradiography and CAtalyzed Reporter Deposition Fluorescence In Situ Hybridization (MICRO-CARD-FISH) for structure-funcion analysis of prokaryotes in deep waters. CIESM congress, Barcelona, Spain, June 2004
- Teira, E., J. Pernthaler & G.J. Herndl. Uptake of D- vs. L- amino acids by the main prokaryotes in the meso- and bathypelagic waters of the North Atlantic. Ocean Sciences Meeting, 16-20 February.
- Ten Hallers-Tjabbes, C.C. The Fate of Tributyltin in the Environment: Impacts from Coast to Ocean. Marine Antifouling Seminar, White Water to Blue Water Miami Conference. Miami, USA, 22-26 March.

- Ten Hallers-Tjabbes, C.C. & J.P. Boon. Ballast Water Treatment & Active Substances: Option or Deadlock? 2nd Ballast Water R&D Conference, Singapore, 19-21 May.
- Ten Hallers-Tjabbes, C.C. & J.P. Boon. Chemicals (active substances) in ballast water management, challenges and risks. An invitation for an informed debate. 2nd Int. conference and exhibition on ballast water management, Singapore, 19-21 May.
- Ten Hallers-Tjabbes, C.C. Antifouling, TBT and the marine environment. Lecture Marine Environmental Awareness course, NIOZ, 18 March.
- Ten Hallers-Tjabbes, C.C. Antifouling, TBT and the marine environment. Workshop, Marine Environmental Awareness course, NIOZ, 25 October.
- Ten Hallers-Tjabbes, C.C. Globallast, the way forward, IUCN contribution. Globallast Event at MEPC, London, UK, 10 October.
- Ten Hallers-Tjabbes, C.C. Marine biodiversity threatened by Ballast water transported by ships; curbing the threat. IUCN World Conservation Congress, Bangkok, Thailand, 17-25 November.
- Ten Hallers-Tjabbes, C.C. The role of science in capacity building for marine environmental policies and management. Capacity building workshop, White Water to Blue Water Miami Conference. Miami, USA, 22-26 March.
- Ten Hallers-Tjabbes, C.C., Environmental concerns in ballast water management and treatment. Global Ballast Water Management Programme (GloBallast), 5th Global Project Task Force (GPTF) Meeting: London, UK, 3-6 February.
- Ten Hallers-Tjabbes, C.C. Awareness as a tool in ballast Water Management and the IUCN framework. Global Ballast Water Management Programme (GloBallast) 6th (Final) Global Project Task Force (GPTF) Meeting: London, UK, 15 December.
- Timmermans, K.R., B. Van Der Wagt, H. De Baar, E. Van Tellinghen, L. Van Opstal, M. Veldhuis & C. Brussaard. Dynamics of Antarctic diatoms in relation to availability of iron, light and silicate. Nederlands Polair Programma symposium, Teylers Museum, Haarlem, 10–11 May.
- Van Den Bergh, G.D. High resolution coral proxy records as indicators of climatic and environmental change. Workshop on East Kalimantan Research Programme, Pilot phase, Jakarta, Indonesia, 24-26 May.
- Van Den Hout, P.J., T. Piersma & B. Spaans. Do juvenile red knots on the Banc d'Arguin suffer elevated predation because of inferior foraging abilities?

International Wader Study Group, Annual Conference, Papenburg, Germany, 4-7 November.

Van Der Meer, J. Long-term variability in secondary production of intertidal bivalve populations is strongly related to recruitment variability. The 33rd Annual Marine Benthic Ecology Meeting, Mobile, Alabama, USA, 25-28 March.

Van Der Meer, J. Production of cockles and Baltic tellins. Recruitment Workshop, Royal NIOZ, Texel, 27 October.

Van Der Meer, J., J.J. Beukema, G.C. Cadée, B. Brinkman, R. Dekker & C.J.M. Philippart. Draagvlak voor draagkrachtverlies? CEES-symposium Wetenschappelijke evaluatie van de ecologische effecten van schelpdiervisserij in de Waddenzee, Haren, 29 January.

Van Dongen, B.E., S. Schouten, P.N. Pearson & R.D. Pancost. Investigation of Cretaceous and Paleogene pCO₂ levels and sea surface temperatures using unusually pristine sediments in Tanzania. 32nd International Geological Congress, Florence, Italy, 20-28 August.

Van Duyl, F.C. Microbial Ecology of Coral Reefs. Invited lectures University of Amsterdam, Amsterdam, 22 January, 11 November

Van Duyl, F.C. Nano- and picoplankton abundance and its depletion by coral reef benthos off East Kalimantan. Official visit Indonesian ICOMAR delegation, NIOZ, 5 October,

Van Duyl, F.C., & J.M. De Goeij. Nano-and picoplankton removal by reef benthos along a trophic gradient in the Berau region (East Kalimantan, Indonesia). EKP Symposium, Naturalis, Leiden, 2 November

Van Gils, J.A. & B. Spaans. Veranderingen bij kanoetstrandlopers en de mogelijke relatie met schelpdiervisserij. CEES-symposium Wetenschappelijke evaluatie van de ecologische effecten van schelpdiervisserij in de Waddenzee, Haren, 29 January.

Van Gils, J.A. Effecten van schelpdiervisserij op kanoetstrandlopers. Open Universiteit, Utrecht, 2 October.

Van Gils, J.A. Hotspots in the knot migration system: bottlenecks in two dimensions, a combined laboratory and field study. ESF Travelling to Breed Workshop Kalø, Denmark, 21-23 November.

Van Gils, J.A. Prooi- en plaatskeuzen van kanoeten: optimal foraging theory in de praktijk. Gastcolleges aan IBED, Amsterdam, 13 February, 23 December.

Van Gils, J.A. Scaling-up from digestive physiology to population ecology: a case study in red knots. Seminar at RUG, Groningen, 24 February.

- Van Gils, J.A. Scaling-up from digestive physiology to population ecology: a case study in red knots. Seminar at NIOO-CL, Nieuwersluis, 14 June.
- Van Gils, J.A., B. Spaans, A. Dekinga, C. Kraan & T. Piersma. Scaling-up from digestive physiology to population ecology: a case study in red knots. ISBE-conference, Jyväskylä, Finland, 10-15 July.
- Van Haren, H. Deep inertial motions in the Mediterranean Sea. LODYC, Univ. Pierre et Marie Curie, Paris, France, 8 June.
- Van Weering, T.C.E., H. De Haas, H.C. De Stigter, F. Mienis & Th. Richter. Carbonate mounds and reefs at the Rockall Trough and Gulf of Cadiz: Moundforce progress 2nd Euromargins Conference, Barcelona, Spain, 11-13 November.
- Vahl, W.K., T. Lok, J. Van Der Meer, T. Piersma & F.J. Weissing. Kleptoparasitism over small scale feeding sites; a potential interference mechanism. Verweij PhD-meeting, Texel, 28-30 January.
- Vahl, W.K., J. Van Der Meer, T. Piersma & F.J. Weissing. Foraging and Interference. Lecture undergraduate course 'Experimental Ecology', University of Groningen, 12 March.
- Vahl, W.K., J. Van Der Meer, T. Piersma & F.J. Weissing. The adaptive value of social interference among foraging waders. International Society for Behavioral Ecology. Jyväskylä, Finland, 10-15 July.
- Vahl, W.K., K. Meijer, J. Van Der Meer, T. Piersma & F.J. Weissing. Interference competition among foraging waders: a field experiment. Annual meeting of the Dutch Society for Behavioral Biology, Dalfsen, 25-27 November.
- Veldhuis, M. & J.P. Boon. The Ballast water issue: Techniques, Treatments and Measurements; a new Dutch Research Initiative.. ICES/IOC/IMO Working Group on Ballast and other Ship Vectors (WGBOSV), Cesenatico, Italy, 22-24 March.
- Veldhuis, M.J.W. Cell related processes and functional studies "The Role of Flow Cytometry in Marine Biodiversity and Ecosystem Functioning", Stazione Zoologica "A. Dohrn", Naples, Italy, 3-6 November.
- Veldhuis, M.J.W. Flow cytometry in Aquatic Sciences. Beckman Coulter Workshop, Woerden, 10 November.
- Veldhuis, M.J.W., M. Bossink & J.P. Boon. Effect of secondary Ballast Water Treatments on phytoplankton; a new technique to test the cell viability. Second International Conference & Exhibition on Ballast Water Management, Singapore, 19 – 21 May

- Veldhuis, M.J.W. Single cell analysis; current status and future potential. Rijks Universteit Groningen. 18 March.
- Versteegh, G.J.M. & K.A.F. Zonneveld. Selective preservation of palynomorphs and its consequences. XI International Palynological Congress, Granada, Spain, 4-9 July.
- Versteegh, G.J.M. Proxy evidence for solar forcing of climate - more questions than answers ESF-HOLIVAR workshop Holocene climate variability and climate forcing, Kastanienbaum, Switzerland, 23-25 September.
- Versteegh, G.J.M. Sun-climate relations, evidence from the past. Workshop solar induced climate change. Royal Dutch Meteorological Institute, De Bilt, 6 September.
- Versteegh, G.J.M., E. Raevskaya. & T. Servais. On the biological affinities of galeate acritarchs: morphological and biogeochemical data. XI International Palynological Congress, Granada, Spain, 4-9 July.
- Versteegh, G.J.M., P.F. Van Bergen & J.W. De Leeuw. Biomacromolecules of plants and algae and their fossil analogues. Symposium: Plants and (Present and Past) Climate Change. Amsterdam, 23 April.
- Volkov, D.L. The comparative analysis of the sea level variability in the North Atlantic and North Pacific from 1993 to 2002, EGU General Assembly, Nice, France, 26-30 April.
- Volkov, D.L. The variability of sea level in the North Atlantic and North Pacific in 1993-2003 observed with satellite altimetry, Joint Assembly of AGU, CGU, SEG and EEGS, Montreal, Canada, May.
- Wagner, T., S. Kasten, S. Kolonic & the CT-Net Research Group. The mid-Cretaceous NW-African shelf basin at Tarfaya: A key site to assess rapid change in ocean chemistry under extreme climate conditions. ICP8 Meeting, Biarritz, France, 5-10 September.
- Weijers, J.W.H., E.C. Hopmans, S. Schouten, T. Wagner & J.S. Sinninghe Damsté. A novel proxy for fluvial terrestrial carbon input into the marine environment based on tetraether membrane lipids in sediments. Zevende Nederlandse Aardwetenschappelijk Congres, Veldhoven, 5-6 April.
- Wernand, M.R. The Arcane Colouring of Natural Waters; from Bacon to Raman. Ocean Optics XVII, Fremantle, Australia, 25-29 October.
- Werne, J.P., L.A. Powers, T.C. Johnson, E.C. Hopmans, J.S. Sinninghe Damsté & S. Schouten. The development of TEX86 for continental paleotemperature reconstruction. AGU Fall Meeting, San Francisco, USA, 13-17 December.

- Wijmenga, J., Y. Verkuil, J. Hooijmeijer, C. Both, J. Jukema & T. Piersma.
Turnover rates and population estimates of spring migrating ruffs
(*Philomachus pugnax*) in southwest Fryslân, The Netherlands. Wader
Study Group Annual Conference, Papenburg, Germany, 4-7 November.
- Wilke, I., F.J.C. Peeters & G.J.A. Brummer. Identification of the Agulhas leakage
planktic foraminiferal assemblage. NAC, Veldhoven 4 & 5 April.
- Will A., U. Harlander & W. Metz. Singular vectors and teleconnections. 1st EGU
General Assembly, Nice, France, 26-30 April.
- Winter, C., A. Smit, G.J. Herndl & M.G. Weinbauer. Linking bacterial community
composition with viral abundance and prokaryotic activity in the North Sea.
EGU Meeting, 26-30 April.
- Witbaard, R., E. Jansma & U. Sass-Klaassen. Copepods link quahog growth to
climate. QRA MSG meeting, University of Wales, Bangor, UK, 7-9 January.
- Witbaard, R., U. Sass-Klaassen & E. Jansma. Long term trends in the growth
rates of *Arctica islandica* from the northern North Sea and its indirect cou-
pling to climate. 7de Nederlands Aardwetenschappelijk Congres,
Veldhoven, 5-6 April.

External professional functions

139

M.A. Baars

- member JGOFS Indian Ocean Synthesis and Modelling Group (SCOR)
- member Working Group JGOFS Nederland
- member Working Group GLOBEC Nederland
- member discussion group 'Tracers and mineralogy North Sea sediments'
(RIKZ/NITG/NIOZ)

R.P.M. Bak

- professor Tropical Marine Biology, University of Amsterdam
- Editorial Advisor Marine Ecology Progress Series
- member Visitation Committee Wissenschaftsrat
- member Board Foundation for Scientific Research Surinam and the Netherlands
Antilles
- member council International Society for Reef Studies
- lid programacommissie Biodiversity NWO

M.J.N. Bergman

- member ICES Working Group on Ecosystem Effects of Fishing Activities
- member Raad van Overleg voor het Fysisch-oceanografisch onderzoek
Noordzee -
- Overleggroep Bodem
- member ICES Benthos Ecology working group

W. Boer

- Member of inter-laboratory validation group for normalisation of "Methoden voor de radiochemische bepaling van polonium-210 en lood-210 (NNI-NVN 5694)
- Member of the Nederlandse Werkgroep Deeltjeskarakterisering

J.P. Boon

- Member of the ICES Marine Chemistry Working Group
- Member "Commissie voor de Milieu-Effect Rapportage (CMER)"
- Member of the advisory board of the Institute for Risk Assessment Sciences (IRAS), Utrecht University
- Member of the Dutch Delegation at the 3rd inter-sessional meeting of the ballast water working group of the Marine Environmental Protection Committee (MEPC) of IMO, London, 4-8 October

G.-J.A. Brummer

- Coordinator Bilateral Cooperation Programme NWO-DFG "Divalent cations: development and validation of proxies"
- advisory member ESF-EUROCLIMATE programme
- advisory member EU-FP6 programme "6C"
- member NWO/ALW 'Gebruikers-adviesgroep verankerde instrumentatie'

G.C. Cadée

- editor Journal Sea Research
- associate editor ICHNOS
- board member 'Nederlands Vlaamse Kring van Diatomisten'
- associate editor Senckenbergiana Maritima
- member Commissie voor de geschiedenis van de aardwetenschappen, KNAW
- Editorial board Natura (Kon. Ned. Natuurhist. Ver.)

C.J. Camphuysen

- Editor Atlantic Seabirds (scient. journal The Seabird Group and Nederlandse Zeevogelgroep) (1999-present)
- Member editorial board Marine Ornithology (scient. journal South African Seabird Group en Pacific Seabird Group) (elected 2000)
- Editor and technical editor Ardea (scient. journal Netherlands Ornithologists Union) (1995-present)
- Co-ordinator Dutch beached bird survey
- Chairman European Seabirds at Sea database
- Consultant CSR Consultancy

H.J.W. De Baar

- professor of oceanography, University of Groningen
- associate editor Marine Chemistry
- life member Clare Hall College, Cambridge
- chairman, Netherlands SCOR Committee of Royal Academy of Sciences (KNAW) SCOR= Scientific Committee Oceanic Research
- chairman, Users Advisory Group, Nutrients, national Marine Research Facilities
- deputy coordinator, CarboOcean Integrated Project of European Union Framework Program VI.
- member Netherlands SCAR committee of Royal Academy of Sciences (KNAW) SCAR= Scientific Committee Antarctic Research
- member Scientific Steering Committee Netherlands-Bremen Oceanography (NEBROC)
- member IGBP/WCRP Committee of Royal Netherlands Academy of Sciences (KNAW)
- associate member SCOR Group for international GEOTRACES program on Trace Elements and Isotopes in the Oceans
- member Users Advisory Group, CTD systems, national Marine Research Facilities
- external adviser BELCANTO (Belgian research Carbon uptake in the ANTArctic Ocean)
- external member thesis evaluation committee Dr. Agathe Laes, UBO, Brest.

T.F. De Bruin

- Chair - Netherlands National Oceanographic Data Committee (NL-NODC)
- Chief Officer - Joint SCAR-COMNAP Committee on Antarctic Data Management (JCADM)
- Member - ICES Working Group on Marine Data Management (ICES-WGMDM)
- Member - International Expert Team for Evaluation of Flanders Marine Institute (VLIZ)

J.W. De Leeuw

- board member Hanse Wissenschaftskollege
- board member EMaPS
- professor Organic Geochemistry University of Utrecht, Earth Sciences faculty
- member Koninklijke Nederlandse Akademie van Wetenschappen' (KNAW)
- board member LPP, University of Utrecht, Biology faculty
- board member Inst. für Chemie und Biologie des Meeres, Univ. Oldenburg, Germany

- board member working group Mol. Mech. and Anal. Chem. NIOZ-TUD
- professor Geochemistry, Univ. Barcelona, Spain
- organiser symposium "Karateristieken van zongedreven en interne klimaatvariabiliteit. KNAW, Amsterdam.

G.C.A. Duineveld

- member ICES Benthos Ecology working group

H.G. Epping

- Editor Journal of Sea Research

G.J. Herndl

- Professor of Biological Oceanography, Dept. of Marine Biology, Univ of Groningen
- Member of the Advisory Board of the Dutch Marine Facilities of the Dutch Science Foundation (CMF-MRF)
- President of the Microbiology Section of the CIESM (Commission of the Scientific Exploration of the Mediterranean Sea)
- Chair of the Nomination Committee of the American Society of Limnology and Oceanography
- Appointed Reviewer for and Adviser to the Research Council of Norway for Terrestrial and Aquatic Microbial Ecology and Biotechnology (2000-2003, 2004-2007)
- Associate Editor of Aquatic Microbial Ecology
- Associate Editor of P.S.Z.N.I: Marine Ecology
- Associate Editor of Limnology & Oceanography: Methods

J.H.F. Jansen

- Member NIOC (Nederlandse Integrated Ocean Drilling Program Committee)
- Member Working Group INQUA Nederland

W.C.M. Klein Breteler

- member users group Quantimet (Image Analysis)

H.J. Lindeboom

- chairman Scientific Steering Committee LOICZ
- member Scientific Committee for the IGBP
- member Board of the Sir Allistair Hardy Foundation of Ocean Sciences
- member ICES working Group 'Effects of Fisheries'
- member 'Commissie voor Milieueffectrapportage'
- board member 'Onderzoekschool Functionele Ecology'
- member Steering Committee WOTRO project 'Rivers and coastal zones'
- member Steering Committee and working group Indonesian-Dutch Cooperative

Research on Integrated Coastal Zone Management, Teluk Banten

- SYKON Advisory Committee, Hamburg, Germany
- member 'MER workinggroup 'Winning van beton- en metselzand op de Noordzee'
- member Scientific Committee 'North Sea 2000', 13th International Senckenberg conference
- member organizing committee IGBP-science conference, Amsterdam 2001
- member Editorial Board 'Archive of Fishery and Marine Research'
- member International Steering Committee International Advanced School 'Leonardo da Vinci', Bologna

L.R.M. Maas

- External examiner at thesis defences of L. van Veen, UU 9 April and F. Moulin, Université Joseph Fourier, Grenoble, France 24 October

S. Ober

- member 'overleg-groep 'waarnemen en interpreteren', Raad van overleg fysisch-oceanografisch onderzoek Noordzee'

C.J.M. Philippart

- Editor-in-chief Journal of Sea Research
- Project co-ordinator "Temporal scales of sustainable use of marine ecosystems" (NWO)
- Lecturer Water Quality in Dutch Coastal Ecosystems Course, RUG, Groningen
- Lecturer Marine Biology Course, IBED UVA, Amsterdam.
- Project co-ordinator "Pan-European Gradients in Propagation and Settlement Events" (EU Network of Excellence on Marine Biodiversity and Ecosystem Functioning)
- Member 'Beoordelingscommissie Geo- en Biosfeer, ALW'
- Participant Expert Workshop 'Ecologische ranking van menselijke ingrepen in de Waddenzee'

T. Piersma

- Professor in Animal Ecology at the Centre for Ecological and Evolutionary Studies (CEES) at the University of Groningen
- Vice-chairperson of the International Wader Study Group (IWSG)
- Chairman of the Biologysk Wurkferbân of Fryske Akademy, Ljouwert
- Editor of Journal of Avian Biology
- Member Editorial Board Current Ornithology, Plenum Press, New York
- Member Editorial Board Zoology, Elsevier, Frankfurt
- Editorial board of Journal of Ornithology

- Board member of the Centre for African Wetlands, University of Ghana, Accra, Ghana
- Member Audit Committee Research component Nederland-Gruttoland, Vogelbescherming
- Member of Committee of Experts for Natuurmonumenten
- Member of Board It Fryske Gea

J. Reneerkens

- Editor Limosa

H. Ridderinkhof

- Member Committee 'Milieueffectrapportage'
- Member 'Beleidsadviescommissie Aardwetenschappen ALW - NWO'
- Member EUROGOOS-NL
- Member 'Programma commissie NCK'
- Member 'NWO committee Marine Research Facilities'

M.J. Rietveld

- Chair International research Ship Operators Meeting' (ISOM)
- member Ocean Facilities Exchange Group (OFEG)
- member European Research vessel Operators (ERVO)
- member ESF Marine Board Ocean Research Fleets Working Group (OFWG)
- member POGO Working Group Research Vessels and Cruises Database
- member Interdepartementaal Overleg Zeegaande Vaartuigen (IOZV)

S. Schouten

- Associate editor Organic Geochemistry
- Member of the steering committee of the Benelux Isotope Users Group
- Member of the steering committee International Census of Marine Microbes

J.S. Sinninghe Damsté

- Part time professor University of Utrecht, Faculty of Geosciences
- Associate editor Organic Geochemistry
- Associate editor Geology
- Member of the Klankadviesgroep Euromargins
- Co-ordinator of EC Network C/T-Net
- Member of the Science Comm. of the NIOO
- member "ALW apparatuur commissie"
- member "ALW VICI commissie"

C.C. Ten Hallers-Tjabbes

- Advisor to IUCN for the London Convention 1972.
- Advisor to IUCN for the International Maritime Organization, London (IMO)

- IUCN Representative for the Marine Environment Protection Committee of the IMO
- Advisor Netherlands Delegation White Water to Blue Water- Miami Conference
- Lady Chairman Animal Navigation Group, Royal Institute of Navigation, London, U.K
- Advisor to IUCN for the Globallast UNDP-IMO-GEF Global Project

H.M. Van Aken

- Member ICES Oceanography Committee
- Member ICES Working Group on Oceanic Hydrography
- Chairman "ALW gebruikersadviesgroep CTD-systemen"
- Member "ALW apparatuurcommissie"
- Member Editorial Advisory Board of the Archive of Fishery and Marine Research
- member OCEANSITES International Time Series Science Team

M.A. Van Arkel

- member Working group 'Monitoring rond Mijnbouwinstallaties'

A.J. Van Bennekom

- Member "Deutsche Arbeits Kreis Geschichte des Meeresforschung"

P. Van Den Hout

- Secretary Nederlandse Ornithologische Unie

S.J. Van Der Gaast

- member editorial board of Applied Clay Science
- member of the XRPD group of the NKV (Ned. Kristallografische Ver.)

H. van Haren

- Convenor EGU 1st General Assembly session OS3 'Small and meso-scale processes and their impact on the large scale', Nice 26-30 April.
- Guest editor Deep-Sea Research II, volume on 'Small and meso-scale processes and their impact on the large scale'.
- Member editorial board Journal of Sea Research.
- TOPIC EDITOR OCEAN SCIENCE
- Chairman "ALW gebruikersadviesgroep Verankerde Instrumentatie"

J. Van Der Meer

- Member of the Science Advisory Board SOVON (Co-operative Ornithological Field Research in the Netherlands)
- Member of the ICES Working Group on the Statistical Aspects of Environmental Monitoring
- Honorary Research Fellow of the School of Biological Sciences, University of Aberdeen

- Co-ordinator of the EU-project IMPRESS

H.W. Van Der Veer

- Associate professor of Zoology, North Carolina State University, Raleigh, USA
- Adjunct associate professor of Marine Science, University of South Carolina, Columbia, USA
- Member of the ICES Working Group on Recruitment Processes
- Member Organizing Committee 6th International Symposium on Flatfish Ecology, Kyoto, Japan

F.C. Van Duyl

- board member Treub-Mij
- advisor Studiekring Suriname en de Nederlandse Antillen
- member European Scientific Diving Committee
- advisor of the International Foundation for Science

T.C.E. Van Weering

- Member Editorial Board of: Marine Geology
- Member Editorial Board Boreas
- Member Editorial Board International Journal of Earth Sciences/Geol.Rundschau
- Guest Editor Special issue of JASES Red River Delta
- Professor Paleocyanography Free University, Amsterdam
- Chairman GAG Bodem systemen en seismiek (NWO/ALW)
- Lid commissie Mariene Faciliteiten(NWO/ALW)
- Lid commissie Toekomst Pelagia (NIOZ)
- Lid commissie "East Kalimantan Programme for Coastal Zone Research Netherlands/ Indonesia" (NWO/KNAW)
- Lid beoordelingscommissie Promotiebeurzen IWT, Brussel

M.J.W. Veldhuis

- Member of the ICES/IOC/IMO Working Group on Ballast and other Ship Vectors (WGBOSV)
- Member of the ICES/IOC/IMO (WGITMO) Working Group on Introduction and Transfer of Marine Organisms
- Associate member SCOR working group 120: Phaeocystis
- Member flow cytometer working group NL
- Co-organiser 2nd International Conference & Exhibition on Ballast Water Management (19 - 21 May 2004; Singapore)
- Associate Editor of Sarsia (2000-)
- Guest editor Journal of Sea Research special volume IRONAGES (2004)

- Guest Editor Harmful Algae; special volume on Phaeocystis.

G.J.M. Versteegh

- Fellow of the Hanse Wissenschaftskolleg Delmenhorst, Germany
- Board member European Graduate College EUROPX. Joint educational cooperation of Universities of Bremen, Utrecht and Free University, Amsterdam
- Associated Scientist. Faculty of Geosciences, section Historical Geology and Palaeontology. Bremen University

C. Veth

- member Working group Joint Ocean Global Flux Study NWO/GOA
- member Editorial Board of Oceanologica Acta

J.T.F. Zimmerman

- Professor Physical Oceanography, UU

Meetings

FerryBox (EU project) annual meeting. NIOZ, Texel 23-24 Februari

(H. Ridderinkhof)

Visit of 'Friends of Teylers Museum, Haarlem', lecture series at NIOZ, excursion

at Royal NIOZ buildings and on Texel 6 April

(Hein de Baar & Gerhard C. Cadée cs).

Conference Netherlands Ornithological Union, "Prey-predator interaction in birds",

23-24 October

(P.J. van den Hout)

Final Workshop NWO Project "Temporal scales of sustainable use of marine

ecosystems", 1 June

(C.J.M. Philippart)

Recruitment Workshop, 27 October

(C.J.M. Philippart)

Mini symposium of the project: Positive feedback of enhanced UV-B via iron

chemistry of sea water on phytoplankton growth and CO₂ fixation in

the Southern Ocean. Royal NIOZ, 8 April.

FePath meeting, NIOZ, 8 April.

EUROSTRATAFORM Workpackage 2 meeting, planning of cruises to the

Portuguese Atlantic margin, Texel, 19-20 April.

EU-FP5 "6C" annual meeting, at Blagnac, France, 10-12 September.

Mid-term review of the EU project "Fire" on the environmental fate and endocrine effects of brominated flame retardants, 8-10 December
(J.P. Boon)

Courses at NIOZ

Verwey Days 26-28 January- contact person Dr. Jaap van der Meer. The Graduate School of Functional Ecology is based on a collaboration between five Dutch universities and two research institutions, one of them being NIOZ. The School provides an education in functional ecology for graduate students of these universities and institutions. The Verwey Days provide an annual platform where Ph.D. students of the Graduate School present and discuss their results with their fellows and tutors. These days are organized annually at NIOZ in the last week of January. Applications for the Verwey days can be sent to Mrs. Carole Elling (E-mail: c.e.w.elling@rug.nl). More information about the Graduate School of Functional Ecology is given on the website [www.rug.nl/biologie/onderzoek/onderzoekscholen/functionalEcology/index].

Course 'Introduction to Oceanography' (RUG). Contact person Prof. Dr. Ir. Hein De Baar.

The course Introduction to Oceanography is part of the Marine Biology curriculum at the University of Groningen and was attended by 23 students marine biology. Upon the introductory lectures held at Groningen in February, the students took part in the practical part at Royal NIOZ from 22 March through 2 April. The course was set up into three distinct themes, each integrating a suite of subtopics. Theme 1 'Open Wadden Sea' was pivoting around estuarine mixing processes, which need to be unraveled before one is able to observe the biological and chemical impact of the spring bloom of phytoplankton. This was done by a combination of shipboard transect work aboard R/V Navicula as well as time series stations both on the NIOZ jetty and on board in the Marsdiep. Theme 2 'Mokbaai' was focusing on establishing a biogeochemical carbon budget of this shallow tidal inlet where processes range from photosynthesis to vigorous mixing of the bottom sediments. Theme 3 'Carbon Moieties' combined an investigation of the carbon dioxide system in seawater with an assessment of anthropogenic organic pollutants (PCB's

and PAH's) in the marine ecosystem. The students very much enjoyed the integration approach in these themes and all efforts came together very nicely in concerted powerpoint presentations by the students at the final day. Several NIOZ technicians, ship crews and scientists were very actively involved during this stimulating two weeks course.

Course marine ecosystems (RUG), contact persons Prof. Dr. Gerhard Herndl & Dr. Jaap Van Der Meer.

This course was given from 7-30 June. During the first week, lectures were given at Groningen University on the 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 at NIOZ, particularly in the BIO and MEE. The program comprised research on the metabolism of selected benthic organisms and pelagic communities. Sampling was performed in the coastal North Sea and the Wadden Sea with our R/V 'Navicula'.

Introductory course in Marine Biology for Utrecht University- contact person Prof. dr. Gerhard Herndl.

In this course, organized by BIO and MEE from 8-12 November, the students were introduced to the fauna and flora of the intertidal and subtidal sediments and the water column. Simple experiments on the metabolic activity of selected organisms were performed also. At the end of the course, the students presented their work in brief lectures followed by a general discussion on the different subjects.

Marine Environmental Awareness (MarEnA) course for the maritime sector- contact person Dr. Jan Boon.

The goal of the MarEnA course series is to provide the students with a sound basic knowledge of the most important marine physical, chemical, biological and geological processes and their interactions in the marine environment, where this relates to shipping practice. State of the art technology and solutions for environmental issues and the concept of 'sustainable shipping', defined as the optimal balance between economic, ecological and societal requirements, also play a central role in the course. The implications for current and future shipping practice and ship design are discussed in a number of workshops. This course series is

organized in cooperation with EcoMare, the Texel Academy and the ProSea foundation.

Two courses were given at NIOZ in 2004, one from 15-18 April for marine officer students of the naval colleges of Amsterdam (HvA-IMT) and Rotterdam (HRO), and an international Marine Awareness Course for students of the Hogeschool Zeeland, the Technical University Delft, and Chalmers University of Technology in Gothenburg (Sweden) from 25-27 October. More information is given on the website of the ProSea foundation [www.prosea.info].

NEBROC-ECOLMAS course. Contact person Dr. Fred Jansen.

The annual NEBROC-ECOLMAS course is given to introduce young marine scientists employed as Ph.D students and post-docs into the main research fields, i.e. physical and chemical oceanography, marine and

benthic ecology, as well as marine geochemistry and paleoceanography. All disciplines were discussed as components of one integrated system. The topics are: the physics of ocean circulation, waves and tides, the chemistry of seawater and benthic processes, the biology of pelagic ecosystems, the basics of paleoceanography, ecotoxicology and socioeconomic aspects of marine research. The course is an established joined course of the



Netherlands-Bremen Oceanography (NEBROC) co-operation in marine sciences between NIOZ and four marine institutions in Bremen. Our German partners are the Alfred Wegener Institute for Polar and Marine Sciences (AWI), the Department of Geosciences of the University of Bremen, the Max Planck Institute for Microbiology (MPI), and the Centre for Marine Tropical Ecology (ZMT).

The course of 2004 took place at NIOZ from 14-26 November, and was attended by 15 PhD students from the Universities of Bremen, Barcelona, Groningen, Utrecht, Vrije Universiteit Amsterdam and the Netherlands Institute of Ecology (NIOO-CEME) in Yerseke, and of course NIOZ itself.

Since the site of the NEBROC-ECOLMAS course alternates between Texel and Bremen, the next course will be given in Bremen in the autumn of 2005. Contact person is Dr. Torsten Bickert of the University of Bremen (bickert@uni-Bremen.de).

Colloquia

- 8 Januari Romke Kats (Rijks Universiteit Groningen /Alterra) – Breeding of Common eiders and food supply in the Wadden Sea
- 15 Januari Henk de Haas (Royal NIOZ - MCG) - Not dead, not flat; Cold-water coral carbonate mounds in the Rockall Trough
- 29 Januari Taco de Bruin (Royal NIOZ - PHYS) - Data management - a link between 17th century whale hunters and modern day oceanographers
- 5 Februari Anne Rutten (Alterra) - Interference competition in cockle-feeding Oystercatchers: cage- and field experiments
- 12 Februari Klaas Timmermans (Royal NIOZ - MCG) - Ironing out diatom dynamics
- 19 Februari Hendrik van Aken (Royal NIOZ – PHYS) – The thermohaline circulation: cartoon or reality
- 26 Februari Eva Teira Gonzalez (Royal NIOZ - BIO) – Uptake of D- vs. L- amino acids by the main prokaryotes in the meso- en bathypelagic waters of the North Atlantic.
- 11 March Astrid van Veldhoven (Royal NIOZ - PHYS) – Observed evolution of Agulhas ring Astrid
- 25 March Loes Gerringa (Royal NIOZ - MCG) – On the complexity of iron in seawater
- 8 April Micha Rijkenberg (Royal NIOZ - MCG) – Impact of enhanced UV-B on the iron photochemistry in the Southern Ocean. (mini-symposium)
- 15 April Marcel van de Meer (Royal NIOZ - MBT) – Organic geochemistry of hot spring microbial mats and mat isolates
- 21 April Constantin Frangoulis (Hellenic Centre for Marine Research, Greece) - Comparison of mesozooplankton fluxes in three coastal areas
- 22 April Eric Wommack (University of Delaware, USA) - Virioplankton: a key component of the annual biological cycle of the Chesapeake Bay

- 29 April Maggy Nugues (Royal NIOZ - MEE) – Algal overgrowth, coral disease and phase shifts on coral reefs: are they linked?
- 6 May Anssi Vähätalo (US Environmental Protection Agency, USA) - Modeling of photochemical decomposition of dissolved organic matter in surface waters
- 17 June Yvonne van Breugel (Royal NIOZ - MBT) – Recycling of respired CO₂ in stratified marine systems: Consequences for the interpretation of the stable carbon isotope record.
- 24 June Judith van Bleijswijk (Royal NIOZ - BIO) – Assortment of NIOZ molecular biology work
- 16 September Stefan Schouten (Royal NIOZ, MBT) -Reconstructing ancient sea water temperatures using archaeal lipids.
- 23 September Conny Maier (Royal NIOZ, BIO) -Stable isotopes in zooxanthellate corals - Legendary proxies revisited.
- 30 September Jeffrey Abell (Utrecht University, Geochemistry) -Quantifying the role of dissolved organic matter in upper ocean nutrient cycling in the subtropical North Pacific.
- 7 October Piers Larcombe (CEFAS, UK) -Environmental management of the Great Barrier Reef - a geological perspective
- 21 October Caroline Slomp (Utrecht University, Geochemistry) -The global marine phosphorus cycle: sensitivity to ocean circulation, redox conditions and sealevel rise.
- 27 October Bruce Menge (Oregon State University, USA) – Mechanisms of resilience in coastal rocky intertidal ecosystems
- 29 October Catherine Pierre (LODYC- UPMC, Paris, France) - On the fossil diagenetic carbonates from the Mediterranean margins.
- 4 November Pallavi Anand (Free University, Amsterdam) -Exploring past changes in temperature and oxygen isotopes of seawater via geochemical proxies.
- 11 November Jaap Sinnighe Damsté (Royal NIOZ, MBT) -Anaerobic oxidation of methane and ammonium in the euxinic Black Sea
- 25 November TRANSAT
Hendrik van Aken (Royal NIOZ, FYS) -Water masses studied during TRANSAT
Gerhard Herndl (Royal NIOZ, BIO) -Prokaryotic activity and DOM dynamics

2 December TRANSAT

Txetxu Arrieta (Royal NIOZ, BIO) -Prokaryotic diversity and ectoenzymatic activity

Thomas Reinthaler (Royal NIOZ, BIO) -Respiration in the meso- and bathypelagic waters

9 December Gert van de Bergh (Royal NIOZ, MCG) – Early Pleistocene sea-crossing, dwarfing and survival until 18 cal kyrBP of *Homo erectus* on the island of Flores (Indonesia).

