

Curriculum vitae

Name: J.J.M. (Hans) van Haren
Present Employer: Royal Netherlands Institute for Sea Research (NIOZ)
Present Function: Senior Scientist Physical Oceanography
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Date, place birth 31-12-1959, Utrecht
Higher education August 1985 MSc Geophysics, State University of Utrecht (NL)
02 May 1990 PhD Geophysics (Phys. Oceanogr.), State University Utrecht (NL)

Affiliations

1983-1984 Student assistant at the State University of Utrecht teaching experimental physics to undergraduate Medicine students.
1985-1990 PhD study at NIOZ Texel (funded by ZWO, now NWO).
1990-1990 Four months post-doctoral fellowship at the Dalhousie University, Halifax Canada (funded by NSER Canada and ONR, USA), C. Garrett & N. Oakey.
1991-1991 Twelve months post-doctoral fellowship at the University of Victoria, Canada (funded by NSERC and ONR), C. Garrett.
1992-1996 Post-doctoral fellowship at NIOZ Texel (funded by NWO).
1996-1998 Junior scientist at NIOZ Texel
1998- Senior scientist at NIOZ Texel

Funded research proposals

1994 NWO-middle large (0.9 Mfl) oceanographical equipment budget (with C. Veth and H. Lindeboom).
1998 NWO-middle large (1.5 Mfl) oceanographical equipment budget.
1998-2001 EC-MAST III "PROVESS" (coordinator J. Howarth, POL, UK). NIOZ-partner.
1999-2004 GOA-NWO funded "PROCS" –Faroe-Shetland Channel. Physics coordinator (overall coordinator H. Ridderinkhof).
2004-2008 NWO funded large investment "LOCO" Internal waves part. (main applicants H. van Aken; H. Ridderinkhof).
2004-2007 NWO-CLIVAR funded "CLIMA-DIM".
2004-2006 NWO and CNRS partially funded "GYROSCOP".
2005-2006 NWO, NERC funded "Slope-mixing".
2006-2009 BSIK funded "CS-1:North-Atlantic Ocean Monitoring and modelling: subproject 3: Observations on the internal wave climatology in the North Atlantic Ocean" (coordinator H. Ridderinkhof).
2009-2017 Oceanography part of KM3NeT (dutch contribution to cubic kilometre neutrino telescope); NWO-Large Facilities (ESFRI-funding). Coordinator M. de Jong (Nikhef).
2018-2023 Oceanography part of KM3NeT2.0 (dutch contribution to cubic kilometre neutrino telescope); NWO-Large Facilities (Dutch Roadmap). Coordinator A. Heijboer (Nikhef).

Post-Docs and PhD-students

1999-2000 J. Gemmrich Post-Doc Marie-Curie fellowship and PROVESS
2000-2004 P. Hosegood PhD-student PROCS (graduation: cum laude)
2004-2007 T. Gerkema Post-Doc CLIMA-DIM
2007-2008 L. Gostiaux Post-Doc BSIK: IW-monitoring

- 2009-2016 A. Rabitti PhD-student (co-supervisors L Maas, T Gerkema): equatorial dynamics
 2013-2016 A. Cimadoribus Post-Doc Internal wave dynamics
 2014-2015 F. Cyr Post-Doc Post-Doc Internal wave turbulence

Instrument and techniques development

- 1992 Internal wave band fluxes from ADCP and thermistor string (with C. Garrett and N. Oakey)
 1996 mixBB ADCP bottomlander (with E.Bos and L.Boom)
 1996-1998 NIOZ-1 Fast thermistor string (with R.Groenewegen, M.Laan and B.Koster)
 2004 mix-2 ADCP bottomlander (with L.Boom and H.de Porto)
 2001-2004 NIOZ-2 High sampling rate thermistor string (with R.Groenewegen, M.Laan and B.Koster)
 2005-2006 NIOZ-3 High sampling rate thermistor string (with M.Laan and DJ Buisman)
 2009-2013 NIOZ-4,5 High sampling rate thermistor string (with M.Laan L Gostiaux and DJ Buisman)
 2009-2014 Mooring deployment techniques LOM and LOEI (with T Hillebrand, J van Heerwaarden, A Smit, R Bakker M.Laan L Gostiaux R Groenewegen and H Boer-Rookhuizen)
 2011-2015 Multiple thermistor string mooring (with M Laan, J van Heerwaarden, R Bakker, NIOZ-MTM)
 2018-2021 3D-45 lines thermistor string mooring (with R Bakker, Y Witte, M Laan, J van Heerwaarden, NIOZ-NMF)

Oceanographic sea going experience

- 1981 3-weeks cruise central North Sea (student participant, Central North Sea Project)
 1985 8 1-week cruises North Sea (chief scientist, Frisian Front Project)
 1986 7 1-week cruises North Sea (chief scientist, Frisian Front Project)
 1990 2-weeks cruise Scotian Shelf Canada (post-doc, Emerald Basin Experiment)
 1992 2-days cruise Arabian Sea (lecturer, UNESCO training course)
 1992-95 23 1-week cruises North Sea (chief scientist, Integrated North Sea Programme)
 1996 4-weeks cruise Bay of Biscay (senior scientist, TripleB)
 1998 3-weeks cruise Northern North Sea (chief scientist, PROVESS)
 1999 2-weeks cruise Southern North Sea (chief scientist, PROVESS)
 1999 4-weeks cruise Faroe-Shetland Channel (chief scientist, PROCS)
 2002 2 1-week cruises Rockall Basin (eastern North-Atlantic) (chief scientist, ROCS)
 2003 2-weeks cruise Canary Basin (eastern North-Atlantic) (chief scientist, LOCO-IW)
 2003 1-week cruise Western Mediterranean Sea (chief scientist, GYROSCOP)
 2004 1-week cruise Western Mediterranean Sea (senior scientist, GYROSCOP)
 2004 3-weeks cruise Canary Basin (eastern North-Atlantic) (chief scientist, LOCO-IW)
 2005 1-week cruise Western Mediterranean Sea (senior scientist, GYROSCOP)
 2005 1-week cruise Bay of Biscay (chief scientist, Towed ADCP)
 2005 3-weeks cruise Faeroe-Shetland Channel (senior scientist, Slope Mixing)
 2006 1-week cruise Western Mediterranean Sea (chief scientist, GYROSCOP)
 2006 4-weeks cruise Canary/Cape Verdes Basin (chief scientist, LOCO-IW)
 2007 4-weeks cruise Canary/Cape Verdes/Brazil Basin (chief scientist, bsik/LOCO-IW)
 2008 1-week cruise Kimberley, north-West Australia (senior scientist, WAMSI/UWA)
 2009 4-weeks cruise Canary/Brazil Basin (chief scientist, bsik/LOCO-IW)
 2009 1-week cruise Ionian Sea, East-Mediterranean (chief scientist, Nikhef)
 2010 2-weeks cruise Baltic (senior scientist, IOW)
 2011 2-weeks cruise Ionian Sea, East-Mediterranean (chief scientist, Nikhef)
 2011 1-week cruise Ebro canyon, Western Mediterranean Sea (senior scientist, ICM-CSIC)
 2012 1-week cruise off Portugal, NE-Atlantic Ocean (chief scientist)
 2013 3-week cruise Mediterranean and NE-Atlantic Ocean (chief scientist, Nikhef)

- 2013 2 1-week cruises off Portugal, NE-Atlantic Ocean (chief scientist)
- 2013 1-week cruise Puerto Rico Trench, NW-Atlantic Ocean (chief scientist)
- 2014 1-week cruise Mediterranean Sea (chief scientist, Nikhef)
- 2014 1-week cruise off Portugal, NE-Atlantic Ocean (chief scientist)
- 2015 2-weeks cruise Puerto Rico Trench, NW-Atlantic Ocean (chief scientist)
- 2015 2 1-week cruises off Portugal, NE-Atlantic Ocean (chief scientist)
- 2016 6-weeks cruise West Pacific, Mariana Trench (senior scientist)
- 2017 1-week cruise West Pacific, off Taiwan (senior scientist)
- 2017 1-day cruise Lake Garda-I (senior scientist)
- 2017 1-day cruise KM3NeT/ANTARES, off Toulon-F (chief scientist)
- 2018 1-week cruise West Pacific, off Taiwan (senior scientist)
- 2018 1-day cruise Lake Garda-I (senior scientist)
- 2018 1-day cruise KM3NeT/ANTARES, off Toulon-F (chief scientist)
- 2018 2-weeks cruise West Pacific, Mariana Trench (chief scientist)
- 2019 2-weeks cruise off Portugal, NE-Atlantic Ocean (chief scientist)
- 2019 3-weeks cruise N-Atlantic Ocean (chief scientist)
- 2019 1-week cruise off S-California, NE-Pacific (senior scientist)
- 2019 1-week cruise Mariana Trench, W-Pacific (chief scientist)
- 2019 1-week cruise off S-California, NE-Pacific (senior scientist)
- 2020 1-week cruise West-Mediterranean (chief scientist)
- 2020 3-day cruise West-Mediterranean (senior scientist)

Miscellaneous

- 1980-1981 Member of the advisory board of the sub-faculty of Physics & Astronomy, State University of Utrecht.
- 1982-1983 Member of the board of the department of Meteorology & Physical Oceanography of the State University of Utrecht.
- 1985-1986 Project manager of the Frisian Front Project (physics part).
- 1986-1989 Member of the working group "currents and tides" of the Dutch Board of Consultation for oceanographic research (RvO).
- 1992 UNESCO lecturer at a training course on the measurement of currents, Doha, Qatar.
- 1993 Organizer of the NIOZ student course on "practical physical oceanography".
- 1992-1995 Project manager of the Integrated North Sea Programme and holder of the associated large equipment investment budget.
- 1996 Lecturer short course on "Gebruik BB-ADCP" (Use of Broadband ADCP), Rijkswaterstaat, dir. N-Holland.
- 2000 NEBROC course. Basic course in marine sciences, NIOZ, Texel, 02-13 October.
- 2001 Monitoring- and Evaluation Programme Near-Shore Windpark (MEP-NSW). Expert meeting on waves and currents. NOVEM, Utrecht, 11 May.
- 2001 Co-convenor 26th General Assembly EGS session OA4 'Processes of vertical exchange in shelf seas' (PROVCESS), Nice, France.
- 2002 Guest-editor J. Sea Research special issue on 'Processes of vertical exchange in shelf seas' (PROVCESS), part I and part II.
- 2002 Convenor 27th General Assembly EGS session OA4 'Internal waves in deep ocean and shelf seas', Nice, France.
- 2003 Convenor Joint Assembly EGU session OS3 'Small and meso-scale processes and their impact on the large scale', Nice, France.
- 2004-2009 Member editorial board Journal of Sea Research.
- 2004 Convenor EGU 1st General Assembly session OS3 'Small and meso-scale processes and their impact on the large scale', Nice, France.
- 2004 Guest-editor Deep-Sea Research II special issue on 'Small and meso-scale processes and their impact on the large scale'.

- 2004 15-days visiting travel grant Japan Society for the Promotion of Science, Japan (University of Tokyo)
- 2004-2010 Topic editor (member editorial board) Ocean Science
- 2005 External examiner PhD-thesis Rune Yttervik, NTNU Trondheim, Norway.
- 2005 3-months visiting fellowship 'Poste Rouge' CNRS, France (Ifremer, La Seyne sur mer)
- 2006 Co-convenor AGU 13th Ocean Sciences Meeting session 'Ocean mixing', Honolulu, Hawaii, USA.
- 2007 Co-convenor 39th International Liège colloquium on ocean dynamics, topic 'Turbulence and Waves', Liège, Belgium.
- 2008 4-months visiting fellowship Institute for Advanced Studies, Australia (University of Western Australia, Perth)
- 2008-2009-2010 Member Institutional Board ANTARES neutrino telescope.
- 2009- Associate editor Journal of Sea Research.
- 2009- Member Strategic Planning Board of the cubic kilometer neutrino telescope KM3NeT.
- 2010 Lectures in autumn-school on "Topographic Internal Waves", Corsica, France.
- 2013 1-month visiting professor École Centrale de Lyon, France.
- 2014 1-month visiting professor École Centrale de Lyon, France.
- 2015-2019 Member executive committee IAPSO.
- 2018-2022 Member Geschäftsstelle des Gutachterpanels Forschungsschiffe (GPF) of the Deutsche Forschungsgemeinschaft.
- 2018- Specialty Chief Editor Frontiers in Physical Oceanography of Frontiers in Earth Science and Frontiers of Marine Science.
- 2019- Vice-president executive committee IAPSO.

Refereed publications

- Maas, L.R.M., J.J.M. van Haren, 1987. Observations on the vertical structure of tidal and inertial currents in the central North Sea. *J. Mar. Res.*, 45, 293-318.
- van Haren, J.J.M., L.R.M. Maas, 1987. Temperature and current fluctuations due to tidal advection of a front. *Neth. J. Sea Res.*, 21, 79-94.
- Bosveld, F.C., J.J.M. van Haren, F.G.J. Absil, 1989. The measurement of $\langle U \rangle$, $\langle V \rangle$ and $\langle uv \rangle$ inside the turbulent spot using conditionally sampled hot-wire anemometer signals. *Appl. Sci. Res.*, 46, 291-307.
- van Haren, J.J.M., 1990. Observations on the structure of currents at tidal and sub-tidal frequencies in the central North Sea. PhD thesis, State University of Utrecht, 102 pp
- van Haren, J.J.M., 1990. Sub-tidal dynamics of a near-coastal zone in the North Sea. *Neth. J. Sea Res.*, 25, 31-44.
- van Haren, J.J.M., J.C.A. Joordens, 1990. Observations of physical and biological parameters at the transition between the southern and central North Sea. *Neth. J. Sea Res.*, 25, 351-364.
- van Haren, J.J.M., 1990. Observations on the horizontal and vertical structure of currents at sub-tidal frequencies in the central North Sea. *Neth. J. Sea Res.*, 27, 1-23.
- van Haren, H., N. Oakey, C. Garrett, 1994. Measurements of internal wave band eddy fluxes above a sloping bottom. *J. Mar. Res.*, 52, 909-946.
- van Haren, H., 1996. Correcting false thermistor string data. *Cont. Shelf Res.*, 16, 1871-1883
- Ruardij, P., H. van Haren, H. Ridderinkhof, 1997. The impact of thermal stratification on phytoplankton and nutrient dynamics in shelf seas: a model study. *J. Sea Res.*, 38, 311-331.
- van Haren, H., P. Ruardij, H. Ridderinkhof, D. Mills, 1997. The Integrated North Sea Programme (INP). *In* J.H. Stel et al. (eds). Operational oceanography, the challenge for European cooperation. Proceedings of the first Intl. conf. on EuroGOOS, Elsevier, Amsterdam, 529-538.

- van Raaphorst, W., H. Malschaert, H. van Haren, 1998. Tidal resuspension and deposition of particulate matter in the Oyster Ground, North Sea. *J. Mar. Res.*, 56, 257-291.
- van Haren, H., D.K. Mills, L.P.M.J. Wetsteyn, 1998. Detailed observations of the phytoplankton spring bloom in the stratifying central North Sea. *J. Mar. Res.*, 56, 655-680.
- van Haren, H., L. Maas, J.T.F. Zimmerman, H. Ridderinkhof and H. Malschaert, 1999. Strong inertial currents and marginal internal wave stability in the central North Sea. *Geophys. Res. Lett.*, 26, 2993-2996.
- van Haren, H. 2000. Properties of vertical current shear across stratification in the central North Sea. *J. Mar. Res.*, 58, 465-491.
- van Haren, H. 2000. Comment on 'An efficient method for determining the significance of covariance estimates'. *J. Atmos. Oceanic Technol.*, 17, 885-886.
- van Raaphorst, W., H. Malschaert, H. van Haren, W. Boer and G.-J. Brummer, 2001. Across-slope zonation of erosion and deposition in the Faeroe-Shetland Channel, North Atlantic Ocean. *Deep-Sea Res. I*, 48, 567-591.
- van Haren, H., R. Groenewegen, M. Laan and B. Koster, 2001. A fast and accurate thermistor string. *J. Atmos. Oceanic Technol.*, 18, 256-265.
- van Haren, H. 2001. Estimates of sea level, waves and winds from a bottom-mounted ADCP in a shelf sea. *J. Sea Res.*, 45, 1-14.
- Gemmrich, J.R. and H. van Haren, 2001. Thermal fronts generated by internal waves propagating obliquely along the continental slope. *J. Phys. Oceanogr.*, 31, 649-655.
- Gemmrich, J.R. and H. van Haren, 2002. Internal wave band eddy fluxes in the bottom boundary layer above a continental slope. *J. Mar. Res.*, 60, 227-253.
- Howarth, M.J., J.H. Simpson, J. Sündermann and H. van Haren, 2002. Processes of Vertical Exchange in Shelf Seas (PROV ESS). *J. Sea Res.*, 47, 199-208.
- Gemmrich, J. and H. van Haren, 2002. Internal wave band kinetic energy production: flat vs sloping bottom. *J. Sea Res.*, 47, 209-222.
- van Haren, H., L. Maas and H. van Aken, 2002. On the nature of internal wave spectra near a continental slope. *Geophys. Res. Lett.*, 29(12), 1615, doi:10.1029/2001GL014341.
- Bonnin, J., W. van Raaphorst, G.-J. Brummer, H. van Haren, and H. Malschaert. 2002. Intense mid-slope resuspension of particulate matter in the Faeroe-Shetland Channel; short-term deployment of near-bottom sediment traps. *Deep-Sea Res. I*, 49, 1485-1505.
- Ridderinkhof, H., H. van Haren, F. Eijgenraam and T. Hillebrand, 2002. Ferry observations on temperature, salinity and currents in the Marsdiep tidal inlet between the North Sea and Wadden Sea. *In* N.C. Flemming et al. (eds). *Operational oceanography: implementation at the European and regional scales. Proc. 2nd Intl. conf. on EuroGOOS*, Elsevier, Amsterdam, 139-147.
- van Haren, H., M.J. Howarth, K. Jones and I. Ezzi, 2003. Autumnal reduction of stratification in the northern North Sea and its impact. *Cont. Shelf Res.*, 23, 177-191.
- Hosegood, P. and H. van Haren. 2003. Ekman-induced turbulence over the continental slope in the Faeroe-Shetland Channel as inferred from spikes in current meter observations. *Deep-Sea Res. I*, 50, 657-680.
- van Haren, H., L. Maas and H. van Aken, 2003. Correction to "On the nature of internal wave spectra near a continental slope". *Geophys. Res. Lett.*, 30(7), 1379, doi:10.1029/2003GL016952.
- van Haren, H. 2003. On the polarization of oscillatory currents in the Bay of Biscay. *J. Geophys. res.*, 108(C9), 3290, doi:10.1029/2002JC001736.
- van Haren, H. and C. Millot, 2003. Seasonality of internal gravity waves kinetic energy spectra in the Ligurian Basin. *Oceanol. Acta*, 26, 635-644.
- van Haren, H. 2004. Spectra of poorly resolved ocean data. *Ocean Dyn.*, 54, 49-53.
- van Haren, H. 2004. Current spectra under varying stratification conditions in the central North Sea. *J. Sea Res.*, 51, 77-91.

- van Haren, H. 2004. Incoherent internal tidal currents in the deep-ocean. *Ocean Dyn.*, 54, 66-76.
- van Haren, H. 2004. Bandwidth similarity at inertial and tidal frequencies in kinetic energy spectra from the Bay of Biscay. *Deep-Sea Res. I*, 51, 637-652.
- van Haren, H. and M.J. Howarth. 2004. Enhanced stability during reduction of stratification in the North Sea. *Cont. Shelf Res.*, 24, 805-819.
- van Haren, H. 2004. Some observations of non-linearly modified internal wave spectra. *J. Geophys. Res.*, 109, C03045, doi:10.1029/2003JC002136.
- Hosegood, P., J. Bonnin and H. van Haren. 2004. Solibore-induced sediment resuspension in the Faeroe-Shetland Channel. *Geophys. Res. Lett.*, 31, L09301, doi:10.1029/2004GL019544.
- van Haren, H. and C. Millot, 2004. Rectilinear and circular inertial motions in the Western Mediterranean Sea. *Deep-Sea Res. I*, 51(11), 1441-1455.
- van Haren, H., L. St Laurent and D. Marshall. 2004. Small and mesoscale processes and their impact on the larger scale. *Deep-Sea Res. II*, 51, 2883-2887.
- Hosegood, P. and H. van Haren. 2004. Near-bed solibores over the continental slope in the Faeroe-Shetland Channel. *Deep-Sea Res. II*, 51, 2943-2971.
- van Haren, H. 2004. Spatial variability of deep-ocean motions above an abyssal plain. *J. Geophys. Res.*, 109, C12014, doi:10.1029/2004JC002558.
- van Haren, H. 2005. Sharp near-equatorial transitions in inertial motions and deep-ocean step-formation. *Geophys. Res. Lett.*, 32, L01605, doi:10.1029/2004GL021630.
- van Haren, H. 2005. Internal waves near the buoyancy frequency in a narrow wave-guide. *J. Sea Res.*, 53, 121-129.
- van Haren, H., 2005. Details of stratification in a sloping bottom boundary layer of Great Meteor Seamount. *Geophys. Res. Lett.*, 32, L07606, doi:10.1029/2004GL02298.
- van Haren, H., R. Groenewegen, M. Laan and B. Koster, 2005. High sampling rate thermistor string observations at the slope of Great Meteor Seamount. *Ocean Science*, 1, 17-28, SRef-ID: 1812-0792/os/2005-1-17.
- Hosegood, P., H. van Haren and C. Veth. 2005. Mixing within the interior of the Faeroe-Shetland Channel. *J. Mar. Res.*, 63, 529-561.
- van Aken, H. M., L.R.M. Maas and H. van Haren. 2005. Observations of inertial wave events near the continental slope off Goban Spur. *J. Phys. Oceanogr.*, 35, 1329-1340.
- van Haren, H., 2005. Tidal and near-inertial peak variations around the diurnal critical latitude. *Geophys. Res. Lett.*, 32, L23611, doi:10.1029/2005GL024160.
- van Haren, H. and C. Millot, 2005. Gyroscopic waves in the Mediterranean Sea. *Geophys. Res. Lett.*, 32, L24614, doi:10.1029/2005GL023915.
- Bonnin, J., H. van Haren, P. Hosegood and G.-J.A. Brummer, 2006. Burst resuspension of seabed material at the foot of the continental slope in the Rockall Channel. *Mar. Geol.*, 226, 167-184.
- van Haren, H., C. Millot, and I. Taupier-Letage, 2006. Fast deep sinking in Mediterranean eddies. *Geophys. Res. Lett.*, 33, L04606, doi:10.1029/2005GL025367.
- van Haren, H., and C. Millot, 2006. Determination of buoyancy frequency in weakly stable waters. *J. Geophys. Res.*, 111, C03014, 10.1029/2005JC003065.
- van Haren, H., 2006. Asymmetric vertical internal wave propagation. *Geophys. Res. Lett.*, 33, L06618, doi:10.1029/2005GL025499.
- Hosegood, P. and H. van Haren. 2006. Sub-inertial modulation of semi-diurnal currents over the continental slope in the Faeroe-Shetland Channel. *Deep-Sea Res. I*, 53, 627-655.
- van Haren, H., 2006. Nonlinear motions at the internal tide source. *Geophys. Res. Lett.*, 33, L11605, doi:10.1029/2006GL025851.
- van Haren, H., 2007. Echo intensity data as a directional antenna for observing processes above sloping ocean bottoms. *Ocean Dyn*, 57, 135-149.
- van Haren, H. 2007. Shear at the critical diurnal latitude. *Geophys. Res. Lett.*, 34, L06601, doi:10.1029/2006GL028716.

- van Aken, H. M., H. van Haren and L.R.M. Maas. 2007. The high-resolution vertical structure of internal tides and near-inertial waves, measured with an ADCP over the continental slope in the Bay of Biscay. *Deep-Sea Res. I*, 54, 533-556.
- van Haren, H., 2007. Inertial and tidal shear variability above Reykjanes Ridge. *Deep-Sea Res. I*, 54, 856-870.
- van Haren, H. 2007. Unpredictability of internal M_2 . *Ocean Science*, 3, 337-344.
- van Haren, H. 2007. Monthly periodicity in acoustic reflections and vertical motions in the deep ocean, *Geophys. Res. Lett.*, 34, L12603, doi:10.1029/2007GL029947.
- Gerkema, T., and H. van Haren, 2007. Internal tides and energy fluxes over Great Meteor Seamount. *Ocean Science*, 3, 441-449.
- van Haren, H., 2007. Longitudinal and topographic variations in North-Atlantic tidal and inertial currents around latitudes $30\pm 10^\circ\text{N}$. *J. Geophys. Res.*, 112, C10020, doi:10.1029/2007JC004193.
- van Haren, H., 2008. Self-regulation of deep-ocean internal wave continuum: observations on related near-inertial shear and high-frequency vertical motions. *Geophys. Res. Lett.*, 35, L04606, doi:10.1029/2007GL032697.
- van Haren, H., 2008. Abrupt transitions between gyroscopic and internal gravity waves: the mid-latitude case. *J. Fluid Mech.*, 598, 67-80.
- Burchard, H., P.D. Craig, J.R. Gemrich, H. van Haren, P.-P. Mathieu, H.E.M. Meier, W.A.M. Nimmo Smith, H. Prandke, T.P. Rippeth, E.D. Skillingstad, W.D. Smyth, D.J.S. Welsh, and H.W. Wijesekera, 2008. Observational and numerical modeling methods for quantifying coastal ocean turbulence and mixing. *Progr. Oceanogr.*, 76, 399-442.
- Gerkema, T., J.T.F. Zimmerman, L.R.M. Maas and H. van Haren, 2008. Geophysical and astrophysical fluid dynamics beyond the traditional approximation. *Rev. Geophys.*, 46, RG2004, doi:10.1029/2006RG000220.
- van Haren, H., 2008. A comparison between vertical motions measured by ADCP and inferred from temperature data. *Ocean Science*, 4, 215-222.
- Davies, A.J., G.C.A. Duineveld, M.S.S. Lavaleye, M.I.N. Bergman, H. van Haren and J. M. Roberts, 2009. Downwelling and deep-water bottom currents as food supply mechanisms to the cold-water coral *Lophelia pertusa* (Scleractinia) at the Mingulay Reef Complex. *Limnol. Oceanogr.*, 54, 620-629.
- van Haren, H., 2009. High-frequency vertical current observations in stratified seas and ocean. *Cont. Shelf Res.*, 29, 1251-1263.
- van Haren, H., and L. Gostiaux, 2009. High-resolution open-ocean temperature spectra. *J. Geophys. Res.*, 114, C05005, doi:10.1029/2008JC004967.
- van Haren, H., 2009. Using high-sampling rate ADCP for observing vigorous processes above sloping [deep] ocean bottoms. *J. Mar. Sys.*, 77, 418-427.
- van Haren, H., and C. Millot, 2009. Slantwise convection: a candidate for homogenization of deep newly formed dense waters. *Geophys. Res. Lett.*, 36, L12604, doi:10.1029/2009GL038736.
- van Haren, H., M. Laan, D.-J. Buijsman, L. Gostiaux, M.G. Smit and E. Keijzer, 2009. NIOZ3: independent temperature sensors sampling yearlong data at a rate of 1 Hz. *IEEE J. Ocean. Eng.*, 34, 315-322.
- van Haren, H., 2009. Ship-induced effects on bottom-mounted acoustic current meters in shallow seas. *Cont. Shelf Res.*, 29, 1809-1814.
- Roberts, J.M., A.J. Davies, L.A. Henry, L.A. Dodds, G.C.A. Duineveld, M.S.S. Lavaleye, C. Maier, R.W.M. van Soest, M.J.N. Bergman, V. Hühnerbach, V.A.I. Huvenne, D.J. Sinclair, T. Watmough, D. Long, S.L. Green and H. van Haren, 2009. Mingulay reef complex: an interdisciplinary study of cold-water coral habitat, hydrography and biodiversity. *Mar. Ecol. Prog. Ser.*, 397, 139-151.
- van Haren, H., and L. Gostiaux, 2010. A deep-ocean Kelvin-Helmholtz billow train. *Geophys. Res. Lett.*, 37, L03605, doi:10.1029/2009GL041890.

- Aguilar, J.A. et al. (ANTARES-collaboration incl. H. van Haren), 2010. Measurement of the atmospheric muon flux with a 4 GeV threshold in the ANTARES neutrino telescope. *Astropart. Phys.*, 33, 86-90.
- Gostiaux, L., and H. van Haren, 2010. Extracting meaningful information from uncalibrated backscattered echo intensity data. *J. Atmos. Ocean. Technol.*, 27, 943-949.
- van Haren, H., 2010. Rapid swing and spin of [deep] taut-wire-moored instruments. *Deep-Sea Res. I*, 57, 909-917.
- Aguilar, J.A. et al. (ANTARES-collaboration incl. H. van Haren), 2010. Zenith distribution and flux of atmospheric muons measured with the 5-line ANTARES detector. *Astropart. Phys.*, 34, 179-184.
- van Haren, H., 2010. Very near-bottom tidal straining in a sea strait. *Geophys. Res. Lett.*, 37, L16603, doi:10.1029/2010GL044186.
- Aguilar, J.A. et al. (ANTARES-collaboration incl. H. van Haren), 2010. Performance of the front-end electronics of the ANTARES neutrino telescope. *Nucl. Inst. and Meth. Phys. Res. A*, 622, 59-73.
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