

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.
- 2018-2022 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. Skyllingstad, 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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