

Dr. HEIKO PÄLIKE CV (09/2013)**Professor in Palaeoceanography
MARUM**

University of Bremen
 Leobener Straße
 D-28359 Bremen, Germany
 t +49 (0)2421 218 65980 f +49 (0)2421 218 9865980
 e hpaelike@marum.de
 www.marum.de/en/Heiko_Paelike.html
 Date of Birth: 6 May 1974

EDUCATION (awarded)

- 2002 Ph.D. Earth Sciences, University of Cambridge
 (with Sir Nicholas J. Shackleton)
- 1998 M.Sc. (Distinction) Hydrogeology, University College London (UCL)
- 1997 B.A. (Hons)/M.A. Cantab Natural Sciences, Clare College,
 University of Cambridge (Earth Science Major)
- 1993 Abitur (Grade 1.1)
 Hermann Vöchting Gymnasium, Blomberg (Lippe), NRW, Germany

PROFESSIONAL EXPERIENCE

- | | | |
|-------------|--------------------------------|----------------------|
| 2012 | Professor (from 1. July 2012) | U. Bremen, MARUM |
| 2012 – | Adjunct Professor | Univ. of Southampton |
| 2011 – 2012 | Professor in Palaeoceanography | Univ. of Southampton |
| 2007 – 2011 | Reader (tenured Assoc. Prof.) | Univ. of Southampton |
| 2004 – 2007 | Lecturer (Assist. Prof.) | Univ. of Southampton |
| 2002 – 2004 | Research Scientist | Univ. of Stockholm |
| 2002 | ODP Postdoc, Godwin Laboratory | Univ. of Cambridge |
| 1997 | Student Researcher (Aberdeen) | Mobil North Sea Ltd. |
| 1993 – 1994 | Zivildienst (social care), | Caritas Detmold |

(I) ODP AND SHIP ACTIVITIES:

- Member *Joides Resolution* Facility Board (2013-)
- Co-Chief Scientist IODP Exp. 320/321 (2009-)
- SPC Member (2011)
- Panel Member IODP Science Plan Writing Committee (2009-2012)
- Member, INVEST Steering Committee
- Lead JR Lab Assessment Team, Victoria B.C., 27-29 June 2010
- SSEP Co-Chair and Member (2007-2010)
- Lead-Proponent IODP Drilling Proposal #626
- Co-Proponent IODP Drilling Proposal #661
- IPY Cruise onboard *James Clark Ross*, Svalbard margin, Aug/Sept. 2008
- Site Survey Cruise AMAT03 onboard R/V *Roger Revelle* for IODP Prop. #626
- Stratigraphic Correlator, IODP Exp. 302 (Arctic Coring Expedition)
- Stratigraphic Correlator, ODP Leg 199 (Equatorial Pacific)

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- American Geophysical Union (AGU)
- Geological Society of America (GSA)
- European Geosciences Union (EGU)
- Fellow of the Geological Society, London

FELLOWSHIPS AND AWARDS

2011	Winner Wollaston Fund, Geological Society, London	
2008	Winner Philip Leverhulme Prize (best UK young scientists)	(£70000)

http://www.soton.ac.uk/mediacentre/news/2008/nov/08_220.shtml

2007	Apple Inc ARTS Higher Education Laureate	(\$30000)
2006	Fellow, Higher Education Academy (Teaching Qualification)	
1997-2001	Shell Postgraduate Bursary	
1998-2001	Cambridge European Trust Award	
1994-1997	Scholarship from the British Chamber of Commerce in Germany	

COMMUNITY ACTIVITIES:

Editor, *Paleoceanography* (2013–)

Panel Member, IODP Science Plan Writing Committee (2009-2012)

Lead JR Lab Assessment Team, Victoria B.C., 27-29 June 2010

Chair, ESF Research Network Programme “Earthtime-EU”, (2010-)

Voting member, International Subcommittee for Paleogene Stratigraphy (2008-)

Panel member, IODP INVEST conference steering committee (2008-2010)

Panel member, IODP Science Planning Committee (SPC) (2011)

Panel Co-Chair, IODP Science Steering and Evaluation Panel (SSEP) (2007-2009)

Member, UK IODP Steering Committee

Co-organiser, British Council Switzerland Youth Summit on Climate Change ('06)

Organiser, WUN Earth Systems Virtual Seminar Series (2006-)

Invited Referee for International Journals:

Nature, Science, Nature Geoscience, Geology, Paleoceanography, Earth and Planetary Science Letters, Palaeogeography, Palaeoclimatology, Palaeoecology, Quaternary Science Reviews

Invited Referee for Research Councils:

Deutsche Forschungsgemeinschaft (DFG), Ocean Drilling Program, European Science Foundation (ESF), NERC (UK), NSF (USA)

Convenor, UKIODP Meeting, Royal Society London May 2009

Teacher on Urbino, Bremen & Shanghai Summer Schools, GSA Short Course.

TEACHING EXPERIENCE

Fellow of the Higher Education Academy (HEA), UK, based on merit (demonstrates professional teaching ability).

Currently full teaching load at all undergraduate and postgraduate levels, including field courses.

Student evaluation scores consistently 4.5-5 (out of 5).

Designed several degree modules.

Designed new master of Oceanography & Earth & Climate Science course

Exams Officer for Geology & Geophysics

Frequent delivery of international Short Courses

(Shanghai, Bremen, Urbino, Coldigioco, Philadelphia).

LIST OF PUBLICATIONS Heiko Pälike

Peer-reviewed journal articles (A) (including 10 in *Nature* or *Science*):

(Sept. 2013 WOK ISI citations total 2587, h=24, avg cit/pub=48) full list available at <http://www.researcherid.com/rid/A-6560-2008>, on E-Prints: <http://tinyurl.com/3xascgx>, or on [Google Scholar](#).

- (A59) Edgar, K.M., Pälike, H., Wilson, P.A., (2013), Testing the impact of diagenesis on the $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ of benthic foraminiferal calcite from a sediment burial depth transect in the equatorial Pacific, *Paleoceanography* **28**, 683–691, doi:10.1002/palo.20045
- (A58) Pälike, H. (2013), Impact and Extinction, *Science* **339**(6120), 655–656, doi:10.1126/science.1233948 (This is an editorial Perspectives article)
- (A57) Erhardt, A. M., Pälike, H., Paytan, A., (2013), High-resolution record of export production in the eastern equatorial Pacific across the Eocene-Oligocene transition and relationships to global climatic records, *Paleoceanography* **28**(1), doi:10.1029/2012PA002347
- (A56) Rohling, E.J., Sluijs, A., Dijkstra, H.A., Koehler, P., van de Waal, RSW, von der Heydt, A.S., Beerling, D.J., Berger, A., Bijl, P.K., Crucifix, M., DeConto, R., Drijfhout, S.S., Fedorov, A., Foster, G.L., Ganopolski, A., Hansen, J., Hönlisch, B., Hooghiemstra, H., Huber, M., Huybers, P., Knutti, R., Lea, D.W., Lourens, L.J., Lunt, D., Masson-Demotte, V., Medina-Elizalde, M., Otto-Bliesner, B., Pagani, M., Pälike, H., Renssen, H., Royer, D.L., Siddall, M., Valdes, P., Zachos, J.C., Zeebe, R.E. (2012), Making sense of palaeoclimate sensitivity, *Nature* **491** (7426), 683–691, doi:10.1038/nature11574
- (A55) Gibbs, S.J., Bown, P.R., Murphy, B.H., Sluijs, A., Edgar, K.M., Pälike, H., Bolton, C.T., Zachos, J.C. (2012), Scaled biotic disruption during early Eocene global warming events, *Biogeosciences* **9**, 4679–4688, doi:10.5194/bg-9-4679-2012
- (A54) Pälike, H., Lyle, M.W., Nishi, H., Raffi, I., Ridgwell, A., Gamage, K., Klaus, A., Acton, G., Anderson, L., Backman, J., Baldauf, J., Beltran, C., Bohaty, S.M., Bown, P., Busch, W., Channell, J.E.T., Chun, C.O.J., Delaney, M., Dewangan, P., Dunkley Jones, T., Edgar, K.M., Evans, H., Fitch, P., Foster, G.L., Gussone, N., Hasegawa, H., Hathorne, E.C., Hayashi, H., Herrle, J.O., Holbourn, A., Hovan, S., Hyeong, K., Iijima, K., Ito, T., Kamikuri, S., Kimoto, K., Kuroda, J., Leon-Rodriguez, L., Malinverno, A., Moore, T.C., Murphy, B.H., Murphy, D.P., Nakamura, H., Ogane, K., Ohneiser, C., Richter, C., Robinson, R., Rohling, E.J., Romero, O., Sawada, K., Scher, H., Schneider, L., Sluijs, A., Takata, H., Tian, J., Tsujimoto, A., Wade, B.S., Westerhold, T., Wilkens, R., Williams, T., Wilson, P.A., Yamamoto, Y., Yamamoto, S., Yamazaki, T., Zeebe, R.E. (2012), A Cenozoic record of the equatorial Pacific carbonate compensation depth, *Nature* **488**(7413), 609–615, doi:10.1038/nature11360
- (A53) Gibbs, S.J., Bown, P.R., Murphy, B.H., Sluijs, A., Edgar, K.M., Pälike, H., Bolton, C.T., Zachos, J.C. (2012), Scaled biotic disruption during early Eocene global warming events, *Biogeosciences Discussions* **9**, 1237–1257, doi: 10.5194/bgd-9-1237-2012.
- (A52) Boulila, S., Galbrun, B., Laskar, J., Pälike, H., (2012), A ~ 9 myr cycle in Cenozoic $\delta^{13}\text{C}$ record and long-term orbital eccentricity modulation: Is there a link?, *Earth and Planetary Science Letters* **317-318** , 273–281, doi:10.1016/j.epsl.2011.11.017
- (A51) Westerhold, T., Röhl, U., Wilkens, R., Pälike, H., Lyle, M., Dunkley Jones, T., Bown, P., Moore, T., Kamikuri, S., Acton, G., Ohneiser, C., Yamamoto, Y., Richter, C., Fitch, P., Scher, H., Liebrand, D., and Expedition 320/321 Scientists (2012), Revised composite depth scales and integration of IODP Sites U1331–U1334 and ODP Sites 1218–1220, in *Proceedings of the Integrated Ocean Drilling Program, Volume 320/321*, doi: 10.2204/iodp.proc.320321.201.2011

- (A50) Koutsodendris, A., Brauer, A., **Pälike, H.**, Müller, U.C., Dulski, P., Lotter, A.F., Pross, J., (2011), Sub-decadal- to decadal-scale climate cyclicity during the Holsteinian interglacial (MIS 11) evidenced in annually laminated sediments, *Climate of the Past* **7(3)**, 987-999, doi: 10.5194/cp-7-987-2011.
- (A49) Liebrand, D., Lourens, L.J., Hodell, D.A., de Boer, B., van de Waal, R.S.W., **Pälike, H.**, (2011), Antarctic ice sheet and oceanographic response to eccentricity forcing during the early Miocene, *Climate of the Past* **7**, 869-880, doi: 10.5194/cp-7-869-2011. (Liebrand = PhD student)
- (A48) Toffanin, F., Agnini, C., Fornaciari, E., Rio, D., Giusberti, L., Luciani, V., Spofforth, D.J.A., **Pälike, H.** (2011), Changes in calcareous nannofossil assemblages during the Middle Eocene Climatic Optimum: Clues from the central-western Tethys (Alano section, NE Italy), *Marine Micropaleontology* **81(1-2)**, 22-31, doi:10.1016/j.marmicro.2011.07.002
- (A47) Charles, A.J., Condon, D.J., Harding, I.C., **Pälike, H.**, Marshall, J.E.A., Cui, Y., Kump, L., Croudace, I.A., WUN pACE Group (2011), Constraints on the numerical age of the Paleocene/Eocene boundary, *Geochemistry, Geophysics, Geosystems* **12**, Q0AA17, doi:10.1029/2010GC003426. (Charles = PhD student)
- (A46) Sexton, P.F., Norris, R.D., Wilson, P.A., **Pälike, H.**, Westerhold, T., Röhl, U., Bolton, C.T., Gibbs, S. (2011), Eocene global warming events driven by ventilation of oceanic dissolved organic carbon, *Nature* **471(7338)**, 349-352, doi:10.1038/nature09826.
- (A45) Bickle, M.J., **Pälike, H.**, Teagle, D.A.H., (2011), Secrets of the Seafloor, *Nature Geoscience* **4** (1), 3-4, doi:10.1038/ngeo1053.
- (A44) Harding, I.H., Charles, A.J., Marshall, J.E.A., **Pälike, H.**, Roberts, A.P., Wilson, P.A., Jarvis, E., Thorne, R., Morris, E., Moremon, R., Pearce, R., Akbari, S. (2011), Sea-level and salinity fluctuations during the Palaeocene-Eocene thermal maximum Arctic Spitsbergen, *Earth and Planetary Science Letters* **303(1-2)**, 97-107, doi: 10.1016/j.epsl.2010.12.043
- (A43) Davies, A., Kemp, A.E.S., **Pälike, H.**, (2011), Tropical ocean-atmosphere controls on inter-annual climate variability in the Cretaceous Arctic, *Geophysical Research Letters* **38**, L03706, doi: 10.1029/2010GL046151.
- (A42) Wade, B.S., Pearson, P.N., Berggren, W.A., **Pälike, H.** (2011), Review and revision of Cenozoic tropical planktonic foraminiferal biostratigraphy and calibration to the Geomagnetic Polarity and Astronomical Time Scale, *Earth Science Reviews* **104(1)**, 111-142, doi:10.1016/j.earscirev.2010.09.003.
- (A41) Agnini, C., Fornaciari, E., Giusberti, L., Grandesso, P., Lanci, L., Luciani, V., Muttoni, G., Rio, D., Stefani, C., **Pälike, H.**, Spofforth, D.J.A., 2011, Integrated bio-magnetostratigraphy of the Alano section (NE Italy): a proposal for defining the Middle-Late Eocene boundary, *GSA Bulletin* **123(5-6)**, 841-872, doi: 10.1130/B30158.1. incl. PhD student D. Spofforth.
- (A40) Mills, R. A., Taylor, S. L., **Pälike, H.** , and Thomson, J. (2010), Hydrothermal sediments record changes in deep water oxygen content in the SE Pacific, *Paleoceanography*, doi:10.1029/2010PA001959
- (A39) Luciani, V., Giusberti, L., Agnini, C., Fornaciari, E., Rio, D., Spofforth, D.J.A., **Pälike, H.**, (2010), Ecological and evolutionary response of Tethyan planktonic foraminifera to the middle Eocene climatic optimum (MECO) from the Alano section (NE Italy), *Palaeogeography, Palaeoclimatology, Palaeoecology* **292(1-2)**, 82-95, doi:10.1016/j.palaeo.2010.03.029. incl. PhD student D. Spofforth.
- (A38) Lyle, M., **Pälike, H.**, Nishi, H., Raffi, I., Gamage, K., Klaus, A., and the IODP Expeditions 320/321 Science Party, 2010. The Pacific Equatorial Age Transect, IODP Expeditions 320 and 321: building a 50-million-year-long environmental record of the equatorial Pacific Ocean. *Scientific Drilling* **9:4-15**. doi:10.2204/iodp.sd.9.01.2010
- (A37) Spofforth, D.J.A., Agnini, C., **Pälike, H.**, Rio, D., Fornaciari, E., Giusberti, L., Luciani, V., Lanci, L., Muttoni, G., (2010) Organic Carbon Burial following the

- Middle Eocene Climatic Optimum (MECO) in the central - western Tethys, *Paleoceanography* **25**, PA3210, doi:10.1029/2009PA001738. incl. PhD student D. Spofforth.
- (A36) Westbrook, G. K., K. E. Thatcher, E. J. Rohling, A. M. Piotrowski, **H. Pälike**, A. H. Osborne, E. G. Nisbet, T. A. Minshull, M. Lanoisellé, R. H. James, V. Hühnerbach, D. Green, R. E. Fisher, A. J. Crocker, A. Chabert, C. Bolton, A. Beszczynska-Möller, C. Berndt, and A. Aquilina, (2009), Escape of methane gas from the seabed along the West Spitsbergen continental margin, *Geophys. Res. Lett.*, **36**, L15608, doi:10.1029/2009GL039191
- (A35) Tzedakis, P.C., **Pälike, H.**, Roucoux, K.H. and de Abreau, L., (2009), Atmospheric methane, southern European vegetation and low-mid latitude links on orbital and millennial timescales, *Earth and Planetary Science Letters* **277** (3-4), 307-317 doi:10.1016/j.epsl.2008.10.027.
- (A34) DeConto, R. M., Pollard, D., Wilson, P.A., **Pälike, H.**, Lear, C.H., Pagani, M. (2008), Thresholds for Cenozoic bipolar glaciation. *Nature* **455** (7213), 652-656, doi:10.1038/nature07337.
- (A33) Friedrich, O., Norris, R. D., Bornemann, A., Beckmann, B., **Pälike, H.**, Worstell, P., Hofmann, P. and Wagner, T. (2008) Cyclic changes in Turonian to Coniacian planktic foraminiferal assemblages from the tropical Atlantic Ocean. *Marine Micropaleontology* **68** (3-4), 299-313, doi:10.1016/j.marmicro.2008.06.003.
- (A32) **Pälike, H.** and Hilgen, F. (2008) Correspondence. Rock clock synchronization. *Nature Geoscience* **1** (5), 282, doi:10.1038/ngeo197.
- (A31) **Pälike, H.**, Spofforth, D.J.A., O'Regan, M., Gattacceca, J., (2008) Orbital scale variations and timescales from the Arctic Ocean, *Paleoceanography* **23**, PA1S10, doi:10.1029/2007PA001490. incl. PhD student D. Spofforth.
- (A30) Spofforth, D.J.A., **Pälike, H.**, Green, D., (2008) Paleogene record of elemental concentrations in sediments from the Arctic Ocean obtained by XRF analyses, *Paleoceanography* **23**, PA1S09, doi:10.1029/2007PA001489. incl. PhD student D. Spofforth.
- (A29) Sangiorgi, F., van Soelen, E. E., Spofforth, D., **Pälike, H.**, Stickley, C., St John, K., Koç, N., Schouten, S., Sinninghe Damsté, J. S., Brinkhuis, H. (2008), Cyclicity in the middle Eocene central Arctic Ocean sediment record: Orbital forcing and environmental response, *Paleoceanography* **23**, PA1S08, doi:10.1029/2007PA001487. incl. PhD student D. Spofforth.
- (A28) O'Regan, M., King, J., Backman, J., Jakobsson, M., **Pälike, H.**, Moran, K., Heil, C., Sakamoto, T., Cronin, T. M., Jordan, R. W. (2008), Constraints on the Pleistocene chronology of sediments from the Lomonosov Ridge, *Paleoceanography* **23**, PA1S19, doi:10.1029/2007PA001551.
- (A27) Backman, J., Jakobsson, M., Frank, M., Sangiorgi, F., Brinkhuis, H., Stickley, C., O'Regan, M., Løvlie, R., **Pälike, H.**, Spofforth, D., Gattacceca, J., Moran, K., King, J., Heil, C. (2008), Age model and core-seismic integration for the Cenozoic Arctic Coring Expedition sediments from the Lomonosov Ridge, *Paleoceanography* **23**, PA1S03, doi:10.1029/2007PA001476. incl. PhD student D. Spofforth.
- (A26) Moore, T.C., Mitchell, N., Lyle, M., Backman, J., **Pälike, H.** (2007), Hydrothermal Pits in the Biogenic Sediments of the Equatorial Pacific Ocean, *Geochemistry, Geophysics, Geosystem* **8** (3), Q03015, doi:10.1029/2006GC001501.
- (A25) **Pälike, H.**, Norris, R. D., Herrle, J. O., Wilson, P. A., Coxall, H. K., Lear, C. H., Shackleton, N. J., Tripathi, A. K., Wade, B. S. (2006), The Heartbeat of the Oligocene Climate System, *Science* **314** (5807), 1894-1898. (doi:10.1126/science.1133822)
- (A24) **Pälike, H.**, Frazier, J., Zachos, J.C. (2006), Extended orbitally forced palaeoclimatic records from the equatorial Atlantic Ceara Rise, *Quaternary Science Reviews* **25**, 3138-3149 (doi: 10.1016/j.quascirev.2006.02.011).
- (A23) Moore, T.C. and **Pälike, H.** (2006) Time is of the essence. *Oceanography* **19**(4), 16-21.

- (A22) Raffi, I., Backman, J., Fornaciari, E., **Pälike, H.**, Rio, D., Lourens, L., Hilgen, F., (2006) A Review of calcareous nannofossil astrobiochronology encompassing the past 25 million years, *Quaternary Science Reviews* **25**(23-24), 3113-3137 (doi:10.1016/j.quascirev.2006.07.007)
- (A21) Tzedakis, P.C., Hooghiemstra, H., **Pälike, H.**, (2006) The last 1.35 million years at Tenaghi Philippon: revised chronostratigraphy and long-term vegetation trends, *Quaternary Science Reviews* **25**(23-24), 3416-3430. (doi: 10.1016/j.quascirev.2006.09.002)
- (A20) Brinkhuis, H. et al. (incl. **Pälike, H.**), (2006) Episodic fresh surface waters in the Eocene Arctic Ocean, *Nature* **441**(7093), 606-609. (doi:10.1038/nature04692)
- (A19) Moran, K. et al. (incl. **Pälike, H.**), (2006) The Cenozoic palaeoenvironment of the Arctic Ocean, *Nature* **441**(7093), 601-605. (doi:10.1038/nature04800)
- (A18) Pagani, M. et al. (incl. **Pälike, H.**), (2006) Arctic hydrology during global warming at the Palaeocene/Eocene thermal maximum. *Nature* **442**(7103), 671-675. (doi:10.1038/nature05043)
- (A17) Sluijs, A. et al. (incl. **Pälike, H.**), (2006) Subtropical Arctic Ocean temperatures during the Palaeocene-Eocene thermal maximum, *Nature* **441**(7093), 610-613. (doi:10.1038/nature04668)
- (A16) Jovane, L., Florindo, F., Sprovieri, M., **Pälike, H.** (2006), Astronomic calibration of the Late Eocene/ Early Oligocene Massignano Section (Central Italy), *Geochemistry, Geophysics, and Geosystems (G3)* **7**(7), Paper Q07012, doi:10.1029/2005GC001195.
- (A15) Gale, A.S., Huggett, J.M., **Pälike, H.**, Laurie, E., Hailwood, E.A., Hardenbol, J. (2006), Correlation of Eocene–Oligocene marine and continental records: orbital cyclicity, magnetostratigraphy and sequence stratigraphy of the Solent Group, Isle of Wight, UK, *Journal of the Geological Society* **163**(2): 401-415.
- (A14) Backman, J., Moran, K., McInroy, D., and the IODP Expedition 302 Scientists (incl. **Pälike, H.**). (2005) IODP Expedition 302, Arctic Coring Expedition (ACEX): a first look at the Cenozoic paleoceanography of the central Arctic Ocean. *Sci. Drill.*, 1:12–17. doi:10.2204/iodp.sd.1.02.2005
- (A13) Raffi, I., Backman, J., **Pälike, H.** (2005), Changes in calcareous nannofossil assemblages across the Paleocene/Eocene transition from the paleo-equatorial Pacific Ocean, *Palaeogeography, Palaeoclimatology, Palaeoecology* **226**(1-2): 93-126, doi: 10.1016/j.palaeo.2005.05.006.
- (A12) Rohling, E. J., **Pälike H.**, (2005), Centennial-scale climate cooling with a sudden cold event around 8,200 years ago, *Nature* **434**(7036): 975–979, doi:10.1038/nature03421.
- (A11) Coxall, H.K., Wilson, P.A., **Pälike H.**, Lear, C.H., Backman, J., (2005), Rapid stepwise onset of Antarctic glaciation and deeper calcite compensation in the Pacific Ocean, *Nature* **433**(7021): 53-57. doi:10.1038/nature03135
- (A10) **Pälike, H.**, Moore, T.C., Backman, J., Raffi, I., Lanci, L., Parés, J., Janecek, T., (2005) Integrated stratigraphic correlation and improved composite depth scales for ODP Sites 1218 and 1219, In Wilson, P.A., Lyle, M., Janecek, T.R., and Firth, J.V. (Eds.), *Proc. ODP, Sci. Results*, 199, Ocean Drilling Program, College Station, TX.
- (A9) Wade, B. S. and **Pälike, H.**, (2005) Data Report: Oligocene paleoceanography and benthic stable isotope results from Site , In Wilson, P.A., Lyle, M., Janecek, T.R., and Firth, J.V. (Eds.), *Proc. ODP, Sci. Results*, 199, Ocean Drilling Program, College Station, TX.
- (A8) Wade, B.S., **Pälike, H.**, (2004), Oligocene Climate Dynamics, *Paleoceanography* **19**: PA4019. doi: 10.1029/2004PA001042.
- (A7) **Pälike, H.**, Laskar, J., Shackleton, N.J. (2004), Geological constraints on the chaotic diffusion of the Solar System, *Geology* **32**(11):929-932. doi:10.1130/G20750.1
- (A6) Moore, T.C. Jnr., Backman, J., Raffi, I., Nigrini, C., Sanfilippo, A., **Pälike, H.**, Lyle, M. (2004) Paleogene tropical Pacific: Clues to circulation, productivity, and plate motion, *Paleoceanography* **19**, PA3013, doi: 10.1029/2003PA000998.
- (A5) Billups, K., **Pälike, H.**, Channell, J., Zachos. J., Shackleton, N.J. (2004), Astronomical

- calibration of the late Oligocene through early Miocene Geomagnetic Polarity Time Scale, *Earth and Planetary Science Letters* **224**:33-44.
- (A4) Horng, C.-S., Lee, M.-Y., Pälike, H., Wei, K.-Y., Liang, W.-T., Iizuka, Y., M., Tori (2002) Astronomically calibrated ages for geomagnetic reversals within the Matuyama chron. *Earth Planets Space* **54**(6):679-690.
- (A3) Pälike, H., Shackleton, N.J., Röhl, U. (2001) Astronomical forcing in late Eocene marine sediments. *Earth and Planetary Science Letters* **193**(3-4):589-602.
- (A2) Zachos, J. C., Shackleton, N. J., Revenaugh, J. S., Pälike, H., Flower, B. P. (2001) Climate response to orbital forcing across the Oligocene-Miocene boundary. *Science* **292**(5515):274-278.
- (A1) Pälike, H., Shackleton, N. J. (2000) Constraints on astronomical parameters from the geological record for the last 25 My. *Earth and Planetary Science Letters* **182**(2):1-14.

Books & Short Works:

- (B25) Pälike, H., Nishi, H., Lyle, M., Raffi, I., Gamage, K., Klaus, A., and the Expedition 320/321 Scientists, (2010). Proc. IODP, 320/321: Tokyo (Integrated Ocean Drilling Program Management International, Inc.). doi:10.2204/iodp.proc.320321.2010
- (B25) Bach, W., Ravelo, C., Behrmann, J., Camoin, G., Duncan, R., Edwards, K., Gulick, S., Inagaki, F., Pälike, H., Tada, R. (2010), IODP New Ventures in Exploring Scientific Targets (INVEST): Defining the New Goals of an International Drilling Program, *Scientific Drilling* **9**, 54-64, doi:10.2204/iodp.sd.9.12.2010
- (B24) Pälike, H., Nishi, H., Lyle, M., Raffi, I., Klaus, A., Gamage, K., and the Expedition 320/321 Scientists, 2009. Pacific Equatorial Transect. IODP Prel. Rept., 320. doi:10.2204/iodp.pr.320.2009
- (B23) Lyle, M., Raffi, I., Pälike, H., Nishi, H., Gamage, K., Klaus, A., and the Expedition 320/321 Scientists, 2009. Pacific Equatorial Transect. IODP Prel. Rept., 321. doi:10.2204/iodp.pr.321.2009
- (B22) Pälike, H., Lyle, M.W., Ahagon, N., Raffi, I., Gamage, K., and Zarikian, C.A., 2008. Pacific equatorial age transect. IODP Sci. Prosp., 320/321. doi:10.2204/iodp.sp.320321.2008
- (B21) Pälike, H., 2006. Incorporation of geological cycles in establishing geological time scales: exercise notes, In: Paleontological Society Short Course Notes, Geochronology: Emerging Opportunities, Olszewski, T. D., Huff, W. (Eds.), Baltimore, U.S.A., 125-143
- (B20) Expedition 302 Scientists (incl. Pälike, H.), (2005). Arctic Coring Expedition (ACEX): paleoceanographic and tectonic evolution of the central Arctic Ocean. IODP Prel. Rept., 302. doi:10.2204/iodp.pr.302.2005
- (B19) Backman, J., Moran, K., McInroy, D.B., Mayer, L.A., and the Expedition 302 Scientists (incl. Pälike, H.), 2006. Proc. IODP, 302: Edinburgh (Integrated Ocean Drilling Program Management International, Inc.). doi:10.2204/iodp.proc.302.2006
- (B18) Expedition 302 Scientists (incl. Pälike, H.), 2006. Expedition 302 summary. In Backman, J., Moran, K., McInroy, D.B., Mayer, L.A., and the Expedition 302 Scientists, Proc. IODP, 302: Edinburgh (Integrated Ocean Drilling Program Management International, Inc.). doi:10.2204/iodp.proc.302.101.2006
- (B17) Jakobsson, M., Flodén, T., and the Expedition 302 Scientists (incl. Pälike, H.), 2006. Expedition 302 geophysics: integrating past data with new results. In Backman, J., Moran, K., McInroy, D.B., Mayer, L.A., and the Expedition 302 Scientists, Proc. IODP, 302: Edinburgh (Integrated Ocean Drilling Program Management International, Inc.). doi:10.2204/iodp.proc.302.102.2006
- (B16) Expedition 302 Scientists (incl. Pälike, H.), 2006. Methods. In Backman, J., Moran, K., McInroy, D.B., Mayer, L.A., and the Expedition 302 Scientists, Proc. IODP, 302: Edinburgh (Integrated Ocean Drilling Program Management International, Inc.). doi:10.2204/iodp.proc.302.103.2006

- (B15) Expedition 302 Scientists (incl. Pälike, H.), 2006. Sites M0001–M0004. In Backman, J., Moran, K., McInroy, D.B., Mayer, L.A., and the Expedition 302 Scientists, Proc. IODP, 302: Edinburgh (Integrated Ocean Drilling Program Management International, Inc.). doi:10.2204/iodp.proc.302.104.2006
- (B14) Moore, T.C., and the Expedition 302 Scientists (incl. Pälike, H.), 2006. Sedimentation and subsidence history of the Lomonosov Ridge. In Backman, J., Moran, K., McInroy, D.B., Mayer, L.A., and the Expedition 302 Scientists, Proc. IODP, 302: Edinburgh (Integrated Ocean Drilling Program Management International, Inc.). doi:10.2204/iodp.proc.302.105.2006
- (B13) Stringer, C., **Pälike, H.**, van Andel, T. H., Huntley, B, Valdes, P, Allen, J. R. M. (2004) Climatic Stress and the Extinction of the Neanderthals, In van Andel, Tjeerd H. and Davies, William, Eds. Neanderthal and Modern Humans in the European Landscape of the Last Glaciation: Archaeological results of The Stage 3 Project. (McDonald Institute Monograph 2004), chapter 13, pages 233-240. McDonald Institute, Cambridge; Oxbow Books, London.
- (B12) **Pälike, H.** (2005), Orbital Variation (Including Milankovitch Cycles), In: Encyclopedia of Geology, Selley, R.C., Cocks., L. R. M., Plimer, I. R. (Eds), Elsevier, Oxford, v. 1, pp. 410-421.
- (B11) Leg 199 Shipboard Scientific Party (incl. H. Pälike) (2002) Site 1220, in Lyle, M. and Wilson, Paul A. and Janecek, T. R., Eds. Proc. ODP, Init. Repts. 199 [CD-ROM], pages 1-92. Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA.
- (B10) Leg 199 Shipboard Scientific Party (incl. H. Pälike) (2002) Leg 199 summary, in Lyle, M. and Wilson, Paul A. and Janecek, T. R., Eds. Proc. ODP, Init. Repts. 199, pages 1-87. Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA.
- (B9) Leg 199 Shipboard Scientific Party (incl. H. Pälike) (2002) Leg 199 Explanatory Notes, in Lyle, M. and Wilson, Paul A. and Janecek, T. R., Eds. Proc. ODP, Init. Repts. 199 [CD-ROM], pages 1-70. Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA.
- (B8) Leg 199 Shipboard Scientific Party (incl. H. Pälike) (2002) Site 1215, in Lyle, M. and Wilson, Paul A. and Janecek, T. R., Eds. Proc. ODP, Init. Repts. 199 [CD-ROM], pages 1-59. Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA.
- (B7) Leg 199 Shipboard Scientific Party (incl. H. Pälike) (2002) Site 1216, in Lyle, M. and Wilson, Paul A. and Janecek, T. R., Eds. Proc. ODP, Init. Repts. 199 [CD-ROM], pages 1-47. Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA.
- (B6) Leg 199 Shipboard Scientific Party (incl. H. Pälike) (2002) Site 1217, in Lyle, M. and Wilson, Paul A. and Janecek, T. R., Eds. Proc. ODP, Init. Repts. 199 [CD-ROM], pages 1-64. Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA.
- (B5) Leg 199 Shipboard Scientific Party (incl. H. Pälike) (2002) Site 1218, in Lyle, M. and Wilson, Paul A. and Janecek, T. R., Eds. Proc. ODP, Init. Repts. 199 [CD-ROM], pages 1-125. Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA.
- (B4) Leg 199 Shipboard Scientific Party (incl. H. Pälike) (2002) Site 1219, in Lyle, M. and Wilson, Paul A. and Janecek, T. R., Eds. Proc. ODP, Init. Repts. 199 [CD-ROM], pages 1-128. Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA.
- (B3) Leg 199 Shipboard Scientific Party (incl. H. Pälike) (2002) Site 1221, in Lyle, M. and Wilson, Paul A. and Janecek, T. R., Eds. Proc. ODP, Init. Repts. 199 [CD-ROM], pages 1-65. Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA.

- (B2) Leg 199 Shipboard Scientific Party (incl. H. Pälike) (2002) Site 1222, in Lyle, M. and Wilson, Paul A. and Janecek, T. R., Eds. Proc. ODP, Init. Repts. 199 [CD-ROM], pages 1-56. Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA.
- (B1) Quintin, L. L., Faul, K. L., Lear, C., Graham, D., Peng, C., Murray, R. W. and Leg 199 Shipboard Scientific Party (incl. H. Pälike) (2002) Geochemical analysis of bulk marine sediment by ICP-AES on board the JOIDES Resolution, in Lyle, M. and Wilson, Paul A. and Janecek, T. R., Eds. Proc. ODP, Init. Repts. 199 [CD-ROM], pages 1-14. Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA

INVITED Presentations:

- Pälike, H., Imperial College, London (2011)
- Pälike, H., Utrecht University (2011)
- Pälike, H., Goethe-University Frankfurt (Nov 2010)
- Pälike, H., UK Royal Society & AUS Academy of Science, Perth, Australia (Oct. 2010).
- Pälike, H., UCL (2010)
- Pälike, H., AGU (Dec 2009)
- Pälike, H., Univ. Melbourne (Nov 2009)
- Pälike, H., TAMU, College Station (Oct 2009)
- Pälike, H., GFZ Potsdam, Germany (Sept. 2008).
- Pälike, H., Univ. Busan, Korea (May 2008).
- Pälike, H., NAG Conference, Royal Society, March 2008.
- Pälike, H., ICP 2007, Shanghai, China (Opening Presentation).
- Pälike, H et al. (Oct 2006), The Heartbeat of the Oligocene Climate System, Department of Earth Sciences Seminar, Cambridge
- Pälike, H., (Oct. 2006), INVITED TALK: Incorporation of geological cycles in establishing geological time scales, GSA/Paleosociety Short Course, Philadelphia, U.S.A.
- Pälike, H., et al. (Sept. 2006), INVITED TALK: Pacific Oligocene reference curve, IAMG XIth Congress, Liège, Belgium.
- Pälike, H et al. (Oct 2006), The Heartbeat of the Oligocene Climate System, British Antarctic Survey Seminar, Cambridge
- Pälike, H., Mitchell, N.C., and AMAT 03 Survey Cruise Scientists (May 2006), First results from Site Survey Cruise AMAT03 in support for IODP Expedition 314, ECORD IODP Euroforum Meeting, Cardiff
- Pälike, H., Norris, R., Herrle, J.O., Wilson, P.A., Lear, C.H., Coxall, H.K., Tripathi, A.K. (Dec. 2005), Pacific “Stable isotope reference curve” for the Oligocene. AGU Fall Meeting 2005 Eos Transactions AGU Fall Meet. Suppl. 86(52), Abstract PP52B-06, San Francisco, U.S.A.
- Pälike, H., ACEX Scientists (June 2005), INVITED TALK: The physical property record from the Arctic Coring Expedition in the framework of orbital forcing at high latitudes., Palaeoclimate Change: High Latitudes and Ocean Circulation Abstract Volume. London, UK, Geological Society of London.
- Pälike, H., Moore, T.C., Backman, J., Raffi, I., Parés, J, Lanci, L., Shackleton, N.J., Implications From a new Continuous Astronomically Calibrated Geological Time Scale Back to ~42 Myrs. AGU Fall Meeting 2003 Eos Transactions AGU Fall Meet. Suppl. 84(46), Abstract PP42D-06, San Francisco, U.S.A.
- Pälike, Heiko and Shackleton, N.J. (2003) Milankovitch Cyclicity and Stable Isotope Calibration in the Paleogene. ISPS Symposium on the Paleogene: Preparing for Modern Life and Climate Proceedings with Abstracts, S-9, Leuven, Belgium.
- Shackleton, Nicholas J., Crowhurst, Simon J., Pälike, Heiko, Laskar, Jacques (2002) Orbital Tuning and re-Tuning; Art and Science. AGU Fall Meeting 2002 Eos Transactions AGU Fall Meet. Suppl. 83(47), San Francisco, U.S.A.

