



**PROFESSOR TROND HELGE TORSVIK**  
**CURRICULUM VITA AND PUBLICATION LIST**

**1. PERSONAL DETAILS**

Address	Centre for Earth Evolution and Dynamics (CEED), University of Oslo, 0316 Oslo, Norway
Email	t.h.torsvik@geo.uio.no
Phone	+47-94053258
Web	<a href="http://www.mn.uio.no/ceed/english/">www.mn.uio.no/ceed/english/</a> <a href="http://www.earthdynamics.org">www.earthdynamics.org</a>
Date of birth	12 <sup>th</sup> October 1957
Nationality	Norwegian

**2. ACADEMIC HISTORY**

1985	Dr. Philos (Institute of Geophysics, University of Bergen)
1982	M.Sc. (Institute of Geophysics, University of Bergen)

**3. MEDALS, AWARDS, FELLOWSHIPS, HONORS**

2018	PROSE AWARD (Best Earth Sciences Book): Association of American Publishers
2017	FRIDTJOF NANSEN MEDAL: Norwegian Academy of Science and Letters
2016	THE UNIVERSITY OF OSLO RESEARCH PRIZE
2016	ARTHUR HOLMES MEDAL: European Union of Geosciences
2016	HUMBOLDT RESEARCH AWARD: Alexander von Humboldt Foundation (Germany)
2015	LEOPOLD VON BUCH MEDAL: German Geological Society
2013	NAME OF THE YEAR: Faculty of Mathematics and Natural Sciences (University of Oslo)
2012	ANDRÉ DUMONT MEDAL: Belgian Geological Society
2010	ERC ADVANCED GRANT AWARDEE: European Research Council
2008	ELECTED FELLOW: The Royal Danish Academy of Science and Letters
2006	POPULAR SCIENCE WRITER OF THE YEAR: Geo Publishing Norway
2005	ELECTED FELLOW: Academia Europaea
2004	HONORARY PROFESSOR: Wits University, Johannesburg (South Africa)
1999	ELECTED FELLOW: American Geophysical Union
1996	ELECTED FELLOW: Norwegian Academy of Science and Letters
1993	ELECTED FELLOW: Royal Norwegian Society of Arts and Letters
1991	OUTSTANDING YOUNG SCIENTIST AWARD: European Union of Geosciences
1990	FRIDTJOF NANSENS YOUNG SCIENTIST AWARD: Norwegian Academy of Science & Letters

#### 4. EMPLOYMENT HISTORY

2016 → today	Professor of Geodynamics [Deputy Director & Team Leader <i>Dynamic Earth</i> ], Centre for Earth Evolution and Dynamics (CEED) — A Norwegian Centre of Excellence — University of Oslo.
01.06.2016 – 01.08.2017	Alexander von Humboldt Fellow, GFZ, Potsdam (Germany).
2013 – 2016	Founding Director and Professor of Geodynamics, CEED, University of Oslo.
2010 – 2011	Group Leader ' <i>Mantle Dynamics: Linking Surface and Deep Earth Processes</i> ', Centre for Advanced Study (CAS), Norwegian Academy of Science and Letters, Oslo
2009 – 2013	Professor of Geodynamics and Solid Earth Physics Group Leader, Physics of Geological Processes (PGP) — A Norwegian Centre of Excellence — University of Oslo.
2009 – 2018	Senior Researcher (20%), Geodynamics, Geological Survey of Norway (NGU), Trondheim
2007 – 2009	Senior Scientist, Centre for Geodynamics, NGU Professor II Geodynamics, PGP, University of Oslo
2005 – 2007	Team Leader of the Centre for Geodynamics, NGU
2000 – 2004 2000 – 2007 1999 – 2003	VISTA Professor, Academy of Science and Letters, Oslo Professor II Geodynamics, Norwegian University of Science & Technology, Trondheim Visiting Professor, Department of Geology, University of Lund, Sweden
1998 – 2000 1997 – 2000	Project Manager, Regional Geophysics, NGU Professor II Geodynamics, Solid Earth Physics, University of Bergen
1995 – 1996	Program Leader, Strategic Research and Development, NGU
1993 – 1994 1991 – 1994	Visiting Scientist, Department of Geological Sciences, University of Michigan, USA Senior Geophysicist, Division of Regional Geophysics, NGU
1989 – 1990	Odd Hassel Fellow, Department of Earth Sciences, University of Oxford
1988	Researcher, Division of Regional Geophysics, NGU
1987	Post. Doc., Department of Earth Sciences, University of Oxford
1982 – 1986	Research Fellow, Institute of Geophysics, University of Bergen

#### 5. RECENT RESEARCH GRANTS AS PRINCIPAL INVESTIGATOR

TITLE ( <i>YEAR</i> )	FUNDING AGENCY, COMPANY ( <i>TOTAL FUNDING</i> )
Oslo Geomagnetic Laboratory (2014-2018)	Norwegian Research Council, NRC (€ 1 million)
GPlates (2014-2016)	Petroleum Industry (Det Norske, VNG) (€ 0.3 million)
Centre for Earth Evolution and Dynamics (CEED) (2013-2023)	Norwegian Research Council Centre of Excellence Funding (€ 17 million)
Beyond Plate Tectonics (2011-2016)	European Research Council (ERC AdvG, € 2.5 million)
Academy Treaty UiO (2009-2014)	Statoil* (€ 1.2 million)
Mantle Modeling Workshop (2013)	Norwegian Research Council (€ 0.034 million)
Topo-4D (2009-12)	NRC/European Science Foundation (€ 0.3 million)

Mantle Dynamics: Linking Surface and Deep Earth Processes <b>(2010-11)</b>	Centre for Advanced Study, Academy of Sciences & Norwegian Research Council (€ 0.5 million)
SPlates Software & Model Phase 2 <b>(2008-2011)</b>	Statoil (€ 1.2 million)
GPlates: A Novel Exploration Tool <b>(2006-2009)</b>	Norwegian Research Council & Statoil (€ 1.0 million)
Earth and Mars: Large Volcanic Provinces and mantle dynamics <b>(2006)</b>	NRC/German Research Council (€ 0.01 million)
Frontier Science and Exploration: Arctic to Antarctic <b>(2004-2007)</b>	Norwegian Research Council & Statoil (€ 1.0 million)
GPlates and SPlates Phase 1 plate reconstruction software <b>(2003-2006)</b>	Statoil (€ 0.15 million)
Applied Geodynamics: Understanding Earth processes using combined physics, chemistry & geology <b>(2003-2006)</b>	NRC/South African Research Council (€ 0.2 million)

\*Now Equinor

## 6. RECENT EDITORIAL & COMMITTEE DUTIES

2017 → today	Chairman: Arthur Holmes Medal Award Committee (European Union of Geosciences)
2017 → today	Editorial Board: Solid Earth (EGU)
2014 → today	Editorial Board: Royal Society Open Science
2012 → today	Editorial Board: Tectonophysics
2011— 2018	Panel Member: European Research Council (ERC) Advanced Grant Committee
2003 — 2019	Associate Editor: Terra Nova
2008 — 2014	Panel Member: Priority Program on 'Planetary Magnetism' (German Research Council)
2010 — 2012	Chairman: Adam Fleming Medal Award Committee (American Geophysical Union)
2008 — 2010	Adam Fleming Medal Award Committee (American Geophysical Union)
2008 — 2010	Theme Editor: G-cubed (American Geophysical Union)
2007	Co-proponent for the TOPO-EUROPE initiative (European Science Foundation)
2007 — 2009	Harry H. Hess Medal Award Committee (American Geophysical Union)
2001 — 2003	Editorial Board: Geology
2000 — 2006	Associate Editor: Journal of the Geological Society London
1999 — 2003	Outstanding Young Scientist Award Committee (European Union of Geosciences)
1993 — 1995	Associate Editor: Journal Geophysical Research

## 7. RECENT TEACHING

2017	EARTH EVOLUTION, University of Oslo
2010 → today	TECTONICS, University of Oslo
2010-2012	GEODYNAMICS, University of Oslo
2001 — 2007	(A) PLATE TECTONICS AND BASIN EVOLUTION, (B) PALAEOGEOGRAPHY AND GEODYNAMICS, Norwegian University of Science & Technology, Trondheim.

## 8. TV Documentary

The Mind of the Universe: A journey along the frontiers of knowledge. VPRO Public Broadcasting (the Netherlands) with support by the Open University (UK) and UNESCO.

EPISODE 4: The Explorer (Trond Helge Torsvik) – Towards a unified theory of the evolution of the earth and what makes our planet unique. Aired May 28 (2017) and available on [YouTube](#)

## 9. PUBLICATION RECORD

<b>254</b> publications in international journals/book chapters and <b>one book</b>
<b>62</b> industry reports, popular science articles, software reports and theses
<b>20973</b> Google Scholar Citations (h-index: <b>80</b> )
<b>16137</b> Scopus Citations (h-index: <b>71</b> )

## 10. PUBLICATION LIST

### BOOKS

**TORSVIK, T.H.**, Cocks, L.R.M. 2017. Earth History and Palaeogeography. *Cambridge University Press*, 317 pp. ISBN 978-1-107-10532-4. (Received the PROSE Award 2018)

### ARTICLES IN REFEREED JOURNALS/BOOK CHAPTERS

#### IN REVIEW OR IN PRESS

- TORSVIK, T.H.**, Svensen, H.H., Steinberger, B., Royer, D.L., Jerram, D.A., Jones, M.T. & Domeier, M. 2019. Connecting the Deep Earth and the Atmosphere. AGU book chapter (*in review*).
- van Hinsbergen, D.J.J., **TORSVIK, T.H.**, Schmid, S.M., Mañenco, L.C., Maffione, M., Vissers, R.L.M., Gürer, D. & Spakman, W. 2019. Kinematic reconstruction and tectonic evolution of the Mediterranean region since the Triassic. *Gondwana Research* (*in press*).
- Van der Voo, R. & **TORSVIK, T.H.** 2019. Tectonic history of the Earth. In Mandeau, M., Korte, M. and Petrovsky, E. (eds.): Geomagnetism, Aeronomy and Space Weather: a Journey from the Earth's Core to the Sun. *Cambridge University Press* (*in press*).
- W. Franke, M. Ballèvre, L.R.M. Cocks, J. R. Martínez Catalán, **T.H. TORSVIK** & A. Żelaźniewicz 2019. Variscan Orogeny. *Encyclopedia of Geology*, 2<sup>nd</sup> edition (*in press*).
- TORSVIK, T.H.**, Domeier, M. & L.R.M. Cocks 2019. Phanerozoic Paleogeography and Pangea. *Elsevier* book chapter (*in review*).

#### 2019

- TORSVIK, T.H.**, Steinberger, B., Shephard, G.E., Doubrovine, P.V., Domeier, M., Gaina, C., Conrad, C. & Sager, W.W. 2019. Pacific-Panthalassic reconstructions: Overview, errata and the way forward. *Geochemistry, Geophysics, Geosystems* 20. DOI: 10.1029/2019GC008402.
- Tegner, C., Andersen, T.B., Kjøl, H.J., Brown, E.L., Hagen-Peter, G., Corfu, F., Planke, S. & **TORSVIK, T.H.** 2019. A mantle plume origin for the Scandinavian Dyke Complex: A “piercing point” for 615 Ma plate reconstruction of Baltica? *Geochemistry, Geophysics, Geosystems* 20. Doi.org/10.1029/2018GC007941.
- TORSVIK, T.H.** 2019. Earth History: A Journey in Space and Time from Top to Base. *Tectonophysics*, 760, 297-313.

9. Owen-Smith, T.M., Ganerød, M., van Hinsbergen, D.J.J., Gaina, C., Ashwal, L.D. & **TORSVIK, T.H.** 2019. Testing Early Cretaceous Africa–South America fits with new palaeomagnetic data from the Etendeka Magmatic Province (Namibia). *Tectonophysics*, 760, 23-35.
10. Jerram, D.A., Sharp, I.R., **TORSVIK, T.H.**, Poulsen, R., Watton, T., Freitag, U., Halton, A., Sherlock, S., Malley, J.A., Finley, A., Roberge, J., Swart, R., Fabregas, P., Ferreira, C.H. & Machado, V. 2019. Volcanic constraints on the unzipping of Africa from South America: insights from new geochronological controls along the Angola margin. *Tectonophysics*, 760, 252-266.
11. Domeier, M. & **TORSVIK, T.H.** 2019. Full-plate modelling in pre-Jurassic time. *Geological Magazine*, 156, 261-280. doi:10.1017/S0016756817001005.

## 2018

12. Domeier, M., Magni, V., Hounslow, M.W. & **TORSVIK, T.H.** 2018. Episodic zircon age spectra reflect true fluctuations in global subduction. *Science Reports* 8. <https://doi.org/10.1038/s41598-018-35040-z>.
13. Steinberger, B., Bredow, E., Lebedev, S., Schaeffer, A. & **TORSVIK, T.H.** 2018. Widespread Cenozoic volcanism in the North Atlantic-Greenland region explained by the Iceland plume. *Nature Geoscience*. <https://doi.org/10.1038/s41561-018-0251-0>
14. Tappe, S., Smart, K.A., **TORSVIK, T.H.**, Massuyeau, M., de Wit, M. 2018. Geodynamics of kimberlites on a cooling Earth: Clues to plate tectonic evolution and deep volatile cycles. *Earth Planet. Sci. Lett.* 484, 1–14.

## 2017

15. **TORSVIK, T.H.** & Cocks, L.R.M. 2017. The integration of palaeomagnetism, the geological record and mantle tomography in the location of ancient continents. *Geological Magazine Spec. Issue*. <https://doi.org/10.1017/S001675681700098X>.
16. Domeier, M., Shephard, G.E., Jakob, J., Gaina, C., Doubrovine, P.V. & **TORSVIK, T.H.** 2017. Intraoceanic subduction spanned the Pacific in the Late Cretaceous-Paleocene. *Science Advances* 3: eaao2303.
17. **TORSVIK, T.H.**, Doubrovine, P.V., Steinberger, B., Gaina, C., Spakman, W. & Domeier, M. 2017. Pacific plate motion change caused the Hawaiian-Emperor Bend. *Nature Communications* 8:15660 |DOI: 10.1038/ncomms15660.
18. **TORSVIK, T.H.** & Domeier, M. 2017. Correspondence: Numerical modelling of the PERM anomaly and the Emeishan Large Igneous Province. *Nature Communications* 8 |DOI:10.1038/s41467-017-00125-2.
19. Ashwal, L.D., Wiedenbeck, M., **TORSVIK, T.H.** 2017. Archaean zircons in Miocene oceanic hotspot rocks establish ancient continental crust beneath Mauritius. *Nature Communications* 8:14086 |DOI: 10.1038/ncomms14086.
20. Franke, W., Cocks, L.R.M. & **TORSVIK, T.H.** 2017. Fresh insights on an old orogeny: the Variscan and its oceans revisited. *Gondwana Research* 48, 257-284.
21. Steinberger, B., Seidel, M-L. & **TORSVIK, T.H.** 2017. Limited True Polar Wander as evidence that Earth's non-hydrostatic shape is persistently triaxial. *Geophysical Research Letters* <http://dx.doi.org/10.1002/2016GL071937>.
22. Tappe, S., Romer, L.R., Stracke, A., Steinfeld, A., Smart, K.A., Muehlenbachs, K. & **TORSVIK, T.H.** 2017. Sources and mobility of carbonate melts beneath cratons, with implications for deep carbon cycling, metasomatism and rift initiation. *Earth Planet. Sci. Lett.* 466, 152–167.
23. Svensen, H.H., **TORSVIK, T.H.**, Callegaro, S., Augland, L., Heimdal, T., Jerram, D., Planke, S. & Pereira, E. 2017. Gondwana LIPs: Plate reconstructions, volcanic basins and sill intrusions. In SENSARMA, S. & STOREY, B. C. (eds.) Large Igneous Provinces from Gondwana and Adjacent Regions. Geological Society, London, Special Publications, 463, <https://doi.org/10.1144/SP463.7>

## 2016

24. **TORSVIK, T.H.**, Steinberger, B., Ashwal, L.D., Doubrovine, P.V. & Trønnes, R.G. 2016. Earth Evolution and Dynamics – A tribute to Kevin Burke. *Can. J. of Earth Sci.* 53(11), 1073-1087, 10.1139/cjes-2015-0228.

25. Ashwal, L.D., **TORSVIK, T.H.**, Horvath, P., Webb, S.J., Werner, S.C., Corfu, F. 2016. A mantle-derived origin for Mauritian trachytes. *J. Petrology*, doi: 10.1093/petrology/egw052.
26. Domeier, M., Doubrovine, P.V., **TORSVIK, T.H.**, Spakman, W., Bull, A.L. 2016. Global correlation of lower mantle structure and past subduction. *Geophys. Res. Lett.* 43, doi:10.1002/2016GL068827.
27. Doubrovine, P.V., Steinberger, B., **TORSVIK, T.H.** 2016. A failure to reject: Testing the correlation between large igneous provinces and deep mantle structures with EDF statistics. *Geochem. Geophys. Geosyst.* 17, doi:10.1002/2015GC006044.
28. Gassmøller, R., Dannberg, J., Bredow, E., Steinberger, B. & **TORSVIK, T.H.** 2016. Major influence of plume-ridge interaction, lithosphere thickness variations and global mantle flow on hotspot volcanism: the example of Tristan. *Geochem. Geophys. Geosyst.*, 17, DOI: 10.1002/2015GC006177
29. Jerram, D.A., Widdowson, M., Wignall, P.B., Sun, Y., Lai, X., Bond, D.P.G., **TORSVIK, T.H.** 2016. Sub-marine palaeoenvironments during Emeishan flood 1 basalt volcanism, SW China: implications for plume-lithosphere interaction during the Capitanian ('end Guadalupian') extinction event. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 441, 65-73.
30. Jerram, D.A., Svensen, H.H., Planke, S., Polozov, A.G, **TORSVIK, T.H.** 2016. The onset of flood volcanism in the North-Western part of the Siberian Traps: Explosive volcanism versus effusive lava flows. *Palaeogeography, Palaeoclimatology, Palaeoecology* 441, 38-50.
31. Midtkandal, I., Svensen, H.H., Planke, S., Corfu, F., Polteau, S., **TORSVIK, T.H.**, Faleide, J-I., Grundvåg, S-A., Selnes, H., Kürschner, W., & Olaussen, S. 2016. The Aptian (Early Cretaceous) oceanic anoxic event (OAE1a) in Svalbard, Barents Sea, and the absolute age of the Barremian-Aptian boundary. *Palaeogeography, Palaeoclimatology, Palaeoecology*, Doi.org/10.1016/j.palaeo.2016.09.023.

## 2015

32. **TORSVIK, T.H.**, Amundsen, H.E.F., Trønnes, R.G., Doubrovine, P.V., Gaina, C., Kuznir, N., Steinberger, B., Corfu, F., Ashwal, L.D., Griffin, W.L., Werner, S.C., Jamtveit, B. 2015. Continental crust beneath southeast Iceland. *PNAS* Doi/10.1073/pnas.1423099112
33. **TORSVIK, T.H.** & Burke, K. 2015. Locations of flood basalt provinces and connections to the deep Earth. *In* VOLCANISM AND GLOBAL ENVIRONMENTAL CHANGE (eds. A. Schmidt K.E. Fristad & L.T. Elkins-Tanton). *Cambridge University Press* 30-46.
34. Van der Voo, R., van Hinsbergen, D.J.J., Domeier, M., Spakman, W., **TORSVIK, T.H.** 2015. Latest Jurassic-earliest Cretaceous oroclinal closure of the Mongol-Okhotsk Ocean and implications for Mesozoic Central Asian plate reconstructions. *In* Late Jurassic Margin of Laurasia—A Record of Faulting Accommodating Plate Rotation (eds. Anderson, T.H., Didenko, A.N., Johnson, C.L., Khanchuk, A.I., MacDonald, J.H., Jr.), *Geological Society of America Special Paper* 513, doi:10.1130/2015.2513(19).
35. Steinberger, B., Spakman, W., Japsen, P. & **TORSVIK, T.H.**, 2015. The key role of global solid-Earth processes in preconditioning Greenland's glaciation since the Pliocene. *Terra Nova*, 27, 1–8.

## 2014

36. **TORSVIK, T.H.**, Van der Voo, R., Doubrovine, P.V., Burke, K., Steinberger, B., Ashwal, L.D., Trønnes, R., Webb, S.J., Bull, A.L. 2014. Deep mantle structure as a reference frame for movements in and on the Earth. *PNAS* 111, 24, 8735–8740
37. van der Meer, D.G, Zeebe, R. , van Hinsbergen, D.J.J., Sluijs, A., Spakman, W. & **TORSVIK, T.H.** 2014. Plate tectonic controls on atmospheric CO<sub>2</sub> levels since the Triassic. *PNAS* www.pnas.org/cgi/doi/10.1073/pnas.1315657111
38. Domeier, M. & **TORSVIK, T.H.** 2014. Focus Review Paper: Plate kinematics of the Late Paleozoic. *Geoscience Frontiers* 5, 303-350.

39. Lowry, D.P., Poulsen, C.J., Horton, D.E., **TORSVIK, T.H.** & Pollard, D. 2014. Thresholds for Paleozoic ice sheet initiation. *Geology* 42; 7, 627–630.
40. Boschman, L.M., van Hinsbergen, D.J.J., **TORSVIK, T.H.**, Spakman, W., Pindell, J.L. 2014. Kinematic reconstruction of the Caribbean region since the Early Jurassic. *Earth-Science Reviews* 138, 102-136.
41. Bull, A.L., Domeier, M. & **TORSVIK, T.H.** 2014. The effect of Plate Motion History on the Longevity of Deep Mantle Heterogeneities. *Earth Planet. Sci. Lett* 401, 172–182.
42. Buiter, S.J.H. & **TORSVIK, T.H.** 2014. GR focus review: A review of Wilson Cycle plate margins. *Gondwana Research* DOI 10.1016/j.gr.2014.02.007.
43. **TORSVIK, T.H.**, Doubrovine, P.V. & Domeier, M. 2014. Continental Drift (Paleomagnetism). Encyclopedia of Scientific Dating Methods. Springer Science, DOI 10.1007/978-94-007-6326-5\_107-1.

## 2013

44. **TORSVIK, T.H.**, Amundsen, H., Hartz, E., Corfu, F., Kuszniir, N., Gaina, C., Doubrovine, P., Steinberger, B., Ashwal, L.D., Jamtveit, B. 2013. A Precambrian microcontinent in the Indian Ocean. *Nature Geoscience* 6, 223-227.
45. **TORSVIK, T.H.** & Cocks, L.R.M., 2013. GR focus review: Gondwana from top to base in space and time. *Gondwana Research* 24, 999-1030.
46. **TORSVIK, T.H.** & Cocks, L.R.M. 2013. New global palaeogeographical reconstructions for the Early Palaeozoic and their generation. In Harper, D.A.T. & Servais, T. (eds) Early Palaeozoic Biogeography and Palaeogeography. *Geological Society London Memoirs* 38, 5–24.
47. Ashwal, L.D., Solankia, A.M., Pandit, M.K., Corfu, F., Hendriks, B., Burke, K. & **TORSVIK, T.H.** 2013. Geochronology and geochemistry of Neoproterozoic Mt. Abu granitoids, NW India: Regional correlation and implications for Rodinia paleogeography. *Precambrian Research* 236, 265-281.
48. Cocks, L.R.M., **TORSVIK, T.H.** 2013. The dynamic evolution of the Palaeozoic geography of eastern Asia. *Earth-Science Review* 117, 40-79.
49. Conrad, C.P., Steinberger, B., **TORSVIK, T.H.** 2013. Stability of active mantle upwelling revealed by net characteristics of plate tectonics. *Nature* 498, 479-482.
50. Conrad, C.P., Steinberger, B., **TORSVIK, T.H.** 2013. Does quadrupole stability imply LLSVP fixity? Conrad et al. Reply. *Nature* 503 (E4), doi:/10.1038/nature12793.
51. Gaina, C., Medvedev, S., **TORSVIK, T.H.**, Koulakov, I. & Werner, S.C. 2013. 4D Arctic: A Glimpse into the structure and evolution of the Arctic in the light of new geophysical maps, plate tectonics and tomographic models. *Surveys in Geophysics* DOI 10.1007/210712-013-9254-y.
52. Gaina, C., **Torsvik, T.H.**, van Hinsbergen, D.J.J., Medvedev, S., Werner, S.C., Labails, C. 2013. The African Plate: A history of oceanic crust accretion and subduction since the Jurassic. *Tectonophysics* 604, 4-25.
53. Owen-Smith, T.M., Ashwal, L.D., **TORSVIK, T.H.**, Ganerød, M., Nebel, O., Webb, S. & Werner, S.C. 2013. Seychelles alkaline suite records the culmination of Deccan Traps continental flood volcanism. *Lithos* 182-183, 33-47.

## 2012

54. **TORSVIK, T.H.**, Cocks, L.R.M. 2012. Andre Dumont Medallist Lecture 2012 — From Wegener until now: the development of our understanding of Earth's Phanerozoic evolution. *Geologica Belgica* 15, 181-192.
55. **TORSVIK, T.H.**, Van der Voo, R., Preeden, U., Mac Niocaill, C., Steinberger, B., Doubrovine, P.V., van Hinsbergen, D.J.J., Domeier, M., Gaina, C., Tovher, E., Meert, J.G., McCausland, P.J., Cocks, L.R.M. 2012. Phanerozoic polar wander, paleogeography and dynamics. *Earth Science Reviews* 114, 325-368.
56. Steinberger, B., **TORSVIK, T.H.**, Becker, T.W. 2012. Subduction to the lower mantle – a comparison between geodynamic and tomographic models. *Solid Earth* 3, 415–432.

57. Doubrovine, P.V., Steinberger, B. and **TORSVIK, T.H.**, 2012, Absolute plate motions in a reference frame defined by moving hotspots in the Pacific, Atlantic and Indian oceans. *Journal Geophysical Research*, 117, B09101, doi:10.1029/2011JB009072.
58. Biggin, A.J., Steinberger, B., Aubert, J., Suttie, N., Holme, R., **TORSVIK, T.H.**, van der Meer, D.G., van Hinsbergen, D.J.J. 2012. Long term geomagnetic variations and whole-mantle convection processes. *Nature Geoscience* 5, 526-533.
59. Burke, K., Werner, S.C., Steinberger, B., **TORSVIK, T.H.**, 2012. Why is the areoid like the residual geoid? *Geophysical Research Letters* 39, L17203, doi:10.1029/2012GL052701.
60. van Hinsbergen, D.J., Lippert, P.C., Dupont-Nivet, G., McQuarrie, N., Doubrovine, P.V., Spakman, W., **TORSVIK, T.H.**, 2012. Greater India Basin hypothesis and a two-stage Cenozoic collision between India and Asia. *PNAS* doi:10.1073/pnas.1117262109
61. van Hinsbergen, D.J., Lippert, P.C., Dupont-Nivet, G., McQuarrie, N., Doubrovine, P.V., Spakman, W., **TORSVIK, T.H.** 2012. Reply to comment by Aitchison and Ali on "Reconciling Himalayan ophiolite and Asian magmatic arc records with a two-stage India-Asia collision model". *PNAS* doi:10.1073/pnas.1208836109.
62. Seton, M., Müller, R.D., Zahirovic, S., Gaina, C., **TORSVIK, T.H.**, Shephard, G., Talsma, A., Gurnis, M., Turner, M., Chandler, M., 2012. Global continental and ocean basin reconstructions since 200 Ma. *Earth Science Reviews* 113, 212–270.
63. van Hinsbergen, D.J.J. Kapp, P., Dupont-Nivet, G., Lippert, P.C., DeCelles, P.G., **TORSVIK, T.H.**, 2012. Reply to comment by Ali and Aitchison on 'Restoration of Cenozoic deformation in Asia, and the size of Greater India'. *Tectonics* 31, TC4007, doi:10.1029/2012TC003144.
64. Van der Voo, R., **TORSVIK, T.H.**, 2012. The History of Remagnetization of Sedimentary Rocks: Deceptions, Developments, Discoveries. *Geol. Soc. London Spec. Publ.* 371, 23-53. <http://dx.doi.org/10.1144/SP371.2>.
65. Ruiz-Martínez, V.C., **TORSVIK, T.H.**, van Hinsbergen, D.J.J., Gaina, C., 2012. Earth at 200 Ma: Global palaeogeography refined from CAMP palaeomagnetic data. *Earth Planet. Sci. Lett.* 331-332, 67-79.
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