

Curriculum Vitae, Hans Thybo

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Born: 19 February 1954 in Århus, Denmark.
Education: Lic.scient. (PhD) in Geology 1987, Aarhus University (AU),
Cand.scient. (M.Sc.) in Geophysics 1982, AU
Bac.scient. (B.Sc.) i Mathematics and Physics 1979, AU.
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Employment: Professor, Department of Geography and Geology, University of Copenhagen, Øster
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Employment career:

1981: Technische Hogeschool Delft, The Netherlands.
1982-85: PhD. study grant, Geological Institute, University of Aarhus
1986: Grant from Nordic Council of Ministers (Energy research).
1986-2001: Ass. Professor in Geophysics, Geological Institute, KU (GI).
1994: Visiting professor at Stanford University, California.
2001-: Professor in Geophysics, Geological Institute, KU (GI)

Leading positions:

1988 -: Head of Geophysical Laboratory, Geological Institute, KU (GI)
1991- 2004. Head of Computer Department GI
1998 -2006: Centre leader: "Seismic-tectonophysical investigations of the tectosphere", Carlsberg
Foundation
1998 -2007: Institute council, GI
1999 -2004: Faculty Computer council
2001 -2004: Deputy Institute Leader, GI
2004 -2008: Leader of "Centre for Integrated Geophysical Research", FNU
2004 -2008: Institute Leader, GI

Professional recognition

1998: Elected member of Royal Danish Academy of Sciences and Letters (RDASL)
2003: Elected to the presidium of RDASL
2004-2008: Swedish Geo-Research Council (NT-C)
2004: Fellow, Royal Astronomical Society, London
2004-2008: External council member, Science Faculty, University of Oslo
2004: Elected member of Academia Europaea
2006- : Danish representative to ICSU (International Committee of Scientific Unions)
2010: Elected member of the Norwegian Academy of Sciences and Letters
2011- : Vicepresident of Royal Danish Academy of Sciences and Letters
2012: Elected member Danish Academy of Natural Sciences
2013-: Overseas Expert for Chinese Academy of Sciences (CAS)
2013: Elected as President for European Geosciences Union
2014-: Member of the board of Danish Academy of Natural Sciences
2014: Elected Fellow of Geological Society of America
2014-2016: President, European Geosciences Union

Editorial Boards:

1996-: Guest editor of 10 special issues of scientific journals
1999-2006: Editorial board, Journal of Applied Geophysics
2000 - : Editor in Chief, Tectonophysics
2003 -: Editorial board, Geophysical Surveys
2005 -2009: Associate editor, eEARTH

2006 -: Editorial board, Geophysical Journal
2009-: Associate Editor, Solid Earth

Invited lectures:

Beijing, Berkeley, Berlin, CalTech, Dahlian, El Paso, GEOMAR, The Hague, Houston, Karlsruhe, Kiel, Kiev, Laramie WY, Leeds, London, Moscow, Nice, Novosibirsk, Oslo, Ottawa, Potsdam, Princeton, Santa Fe, Stanford, Strasbourg, Tokyo, Trabzon, UCLA, Uppsala, Warsaw, Vienna, and Yale, as well as about 60 invited talks at meetings of the EGU, EGS, EUG, AGU, IGC, Deep Seismix, EGT, Europrobe, and TopoEurope Symposia.

International and national committees:

1990-1998: Scientific secretary for seismics in European Geophysical Society
1992-1998: EUROPROBE's working group for "The Trans European Suture Zone"
1993-1996: Chair for IASPEIs MEMSAC committee
1992-1996: Chair for EUROPROBE's instrumentation committee
1992-1996: EUROPROBE's working group "Deep Europe"
1990-1998: Secretary, Danish ILP committee (International Lithosphere Programme)
1998-2008: Chair, Danish ILP committee
2000-2002: President (seismology) for European Geophysical Society
2002: Founding member, European Geosciences Union (EGU)
2002-2007: President (seismology) for the EGU
2004-2008: Executive board, science committee, Int. Geological Congress 2008
2004-2008: Board of Geocentre Copenhagen and Geocentre Denmark
2004 -: Leader of the pan-European geoscience programme, EuroArray
2005 -: Co-proponent of TopoEurope, an ESF-Eurocores project.
2006-: Chair, Danish ICSU committee
2007-2012: General Secretary of European Geosciences Union.
2007-2013: Member of the Danish Research Council for Natural Sciences (FNU)
2009: Committee for assessment of geosciences in The Netherlands
2009-: Scientific Advisory Board for International Continental Drilling Programme
2010-: Advisory Board for Netherlands Res. Centre for Integrated Solid Earth Science
2010-: Council member of European Plate Observatory System (EPOS)
2010-: Board of International Lithosphere programme (ILP)
2010-2011: ERC Starting Grant Panel.
2012-: Panel member, GeoPRISMS for NSF, USA
2013-: Official nominator for the Japan Prize
2013-: Panel member, Albert Einstein Award from World Cultural Council
2014-: External evaluator for National and Kapodistrian University of Athens
2014-: Panel member FCT Research Council, Portugal

PI and co-PI of >50 international scientific geophysical projects since 1989:

Including EGT-subprojects, BABEL, KRISP90 and 94, TTZ Baltic Sea, EUROBRIDGE, MONA LISA (Initiator), POLONAISE (Initiator), DOBREI and II, LARSEII, Celebration'2000, Altay-Sayan, BASE and BEST (Baikal Rift, Initiator), ESTRID (Initiator), leader of acquisition of a comprehensive database of potential fields in Europe, PACE, Alps'2002, Scanlips, EAGLE (Ethiopia rift), EuroArray (Initiator), leading proponent of TopoEurope, MAGNUS, MAGNUS-REX, TopoGreenland (initiator), ScanArray. Expedition leader to Siberia, East Africa and the ice cap in Greenland. Collaboration with researchers from more than 100 leading research institutions on geophysical projects on most continents.

Research:

Research in Geologically Applied Geophysics, including integrated geophysical and geological-tectonic interpretation, tectonophysics, theoretical seismology, and all aspects of applied seismics: data acquisition, processing, and interpretation.

Funding amounts to ca. 135 mill. DKK since 1992, primarily from:

Danish Research Council of Sciences (FNU and SNF), Danish Research Agency, Carlsbergfondet, EU (projects and Marie Curie), NATO, EFP, as well as from the geophysical/geological industry: Phillips Petroleum, Mærsk Oil and Gas, DONG, BEB Erdöl und Gas. These grants have e.g. allowed financing long- and short-term stays of ca. 60 junior and senior researchers at the institute.

Outreach

My research has been described in more than 50 articles in Danish newspapers, in four TV programmes, three radio programmes as well as a series of TV and radio news with interviews.

Scientific assessment:

I have been member of assessment committees for 25 positions as Professor, 34 Ass. Professor positions, one Dr.Scient thesis and 15 PhD theses. Supervisor for 15 Assistant Professors and postdocs, 25 PhD. students, 65 M.Sc. theses and 31 B.Sc. theses. Reviewer for a range of scientific journals as well as for research councils in UK, Canada, Germany, Austria, Norway, Spain, Ireland, and Netherlands; panel member in Denmark, Sweden, USA, Portugal and Canada.

Research results:

>200 scientific articles with review, 80 other publications, 11 special issues of scientific journals and ca. 500 abstracts. Editor-in-Chief for ca.180 volumes of Tectonophysics.

ISI: 4172 cit. to 158 pub. (26 cit./pub.), H=41, a=H/#active years= 1.4

Google Scholar: 6567 cit. to 561 pub., H=48, a=H/#active years= 1.8

Ten significant publications

- i: BABEL Working Group (S.Klemperer, R. Hobbs, R. Meissner, A. Berthelsen, H. Thybo et al.), 1990. Evidence for early Proterozoic plate tectonics from seismic reflection profiles in the Baltic Shield. *Nature*, 348, 34-38.
- ii: KRISP Working Party (C. Prodehl, J. Mechie, M.A.Khan, P. Maguire, H. Thybo et al.), 1991. Large scale variation in lithospheric structure along and across the Kenya Rift. *Nature*, 354, 223-227.
- iii: BABEL Working Group (H. Thybo, E. R. Flueh et al.), 1993. Deep seismic reflection / refraction interpretation of crustal structure along BABEL profiles A and B in the southern Baltic Sea. *Geophysical Journal International* 112, 325-343.
- iv: MONA LISA Working Group (H. Thybo et al.), 1997. Deep seismic investigations of the lithosphere in the southeastern North Sea. *Tectonophysics* 269, 1-19.
- v: Thybo, H. and Perchuc, E., 1997. The seismic 8° Discontinuity and Partial Melting in Continental Mantle. *Science* 275, 1626-1629.
- vi: Thybo, H., 1997, Geophysical characteristics of the Tornquist Fan area, northwest TESZ: Indication of Late Carboniferous to Early Permian dextral transtension. *Geological Magazine* 134, 597-606.
- vii: Nielsen, L., Thybo, H., and Solodilov, L., 1999, Seismic tomographic inversion of Russian PNE data along profile Kraton, *Geoph. Res. Lett.* 26, 3413-3416.
- viii: Thybo, H., Nielsen, L., and Perchuc, E., 2003, Seismic scattering at the top of the mantle transition zone. *Earth and Planetary Science Letters*, 216, 259-269.
- ix: Artemieva, I.M., Thybo, H., and Kaban, M.K., 2006, Deep Europe today: Geophysical synthesis of upper mantle structure and lithospheric processes over 3.5 Ga. Eds.: D. Gee & R. Stephenson, *European Lithosphere Dynamics, Chapter 1.4*, 11-41.
- x: H. Thybo, and C.A. Nielsen, 2009, Magma-compensated crustal thinning in continental rift zones. *Nature*, doi:10.1038/nature07688.