

Walter R. Roest (Netherlands)

[Original: French]

Date of birth: 1 June 1958

Languages: Dutch (mother tongue), French, English, German, Spanish (basic)

Present position

In charge of geosciences and deep ecosystems, Scientific Directorate (DS), French Research Institute for the Exploration of the Sea (IFREMER)

Scientific Manager for the French National Programme for the Extension of the Continental Shelf (EXTRAPLAC)

Organization: IFREMER**Academic qualifications**

M.Sc. in Experimental Physics, 1982, University of Utrecht, Netherlands

M.Sc. in Geophysics, 1983, University of Utrecht, Netherlands

Ph.D. in Marine Geophysics, 1987, Vening Meinesz Laboratorium, University of Utrecht, Netherlands

Career summary

2009-present	In charge of geosciences and deep ecosystems, Scientific Directorate (DS), IFREMER
2003-present	Manager, French National Programme for the Extension of the Continental Shelf (EXTRAPLAC)
2003-2009	Head, Marine Geosciences Department, IFREMER
2001	Interim Director, Continental Geosciences, Geological Survey of Canada (GSC)
2000-2001	Acting Chief Scientist, GSC
1999-2000	Head, Geoscience Knowledge Sector, GSC
1997-1999	Head, Crustal Geophysics Sub-Division, GSC
1995-2004	Adjunct Professor, Ottawa University/Ottawa Carleton Geoscience Centre
1993-1994	Interim head, Geophysical Applications Laboratory, GSC
1990-2002	Research Scientist, GSC, Natural Resources Canada
1987-1990	Post-doctoral fellow, Bedford Institute of Oceanography, Natural Sciences and Engineering Research Council of Canada (NSERC), GSC

Positions held outside IFREMER

- Co-organizer of session, Geological and Mineralogical Association of Canada (GAC-MAC) 2011, Ottawa, Canada, on the United Nations Convention on the Law of the Sea, May 2011
- Co-organizer of session, International Geological Congress (ICG), Oslo, Norway, on the United Nations Convention on the Law of the Sea: World Wide Database, Data Holders, Data Management, August 2008
- Co-organizer of session, American Geophysical Union (AGU) Fall Meeting, San Francisco, United States, on the United Nations Convention on the Law of the Sea, December 2005
- Member of the French National Commission for Marine Geosciences (2003-2008)
- Member, Scientific Committee of the Dynamique et Évolution de la Terre Interne (DyETI) programme of the Institut National des Sciences de l'Univers, French National Centre for Scientific Research (CNRS) (2003-2007)
- Member, Organizing Committee, AGU Chapman Conference on Exploration Geodynamics, Perth, Australia, August 2001
- Member, Board of Directors, Ottawa-Carleton Geoscience Centre (1999-2002)
- Member, Board of Directors, GEOTOP, Université du Québec à Montréal (1998-2002)
- Associate Editor, *Canadian Journal of Earth Sciences* (1996-2002)
- Member, NSERC Grant Selection Committee 08, Solid Earth Sciences (1994/95)
- Member, Lithoprobe Earth Sciences Grants Committee (1993/94 and 1995/96)
- Member, Technical Programme Committee for the Annual Meeting, Society of Exploration Geophysicists, Los Angeles (1994)
- Regular review of manuscripts for international journals, including *Journal of Geophysical Research*, *Marine Geophysical Research*, *Geology*, *Tectonophysics*, *Geophysical Journal International*, *Earth Science Reviews*, and proposals for funding agencies, including NSERC, the National Science Foundation (NSF), the Fonds pour la formation de chercheurs et l'aide à la recherche (FCAR)

Membership of professional association

Member, American Geophysical Union, Society of Exploration Geophysicists

Work experience in collaboration with other countries

Australia, Brazil, Canada, China, Germany, Great Britain, Ireland, New Zealand, Russian Federation, South Africa, Spain and United States of America, among others

Main professional activities related to the United Nations Convention on the Law of the Sea

Since 2003, as Scientific and Technical Manager for EXTRAPLAC, Dr. Roest has been in charge of all the scientific and technical activities necessary for the collection of data and for the development of submissions to CLCS in New York. Since 2006, he has served as a member of the French delegation at plenary sessions of the Commission and at meetings of the various subcommissions set up to consider the French submissions. To date, this collective effort has led to three recommendations, related to the Bay of Biscay, French Guiana and New Caledonia.

Marine survey experience

Dr. Roest has over 18 months of seagoing survey experience on geophysical and geological cruises. He was chief scientist on a number of scientific cruises related to the extension of the continental shelf, in the Atlantic, Pacific and Indian oceans, viz.:

- Kerguelac 1, R/V Marion Dufresne 2, 2004
- Noucaplac 1, R/V L'Atalante (with Australia and New Zealand), 2004
- Del Cano Rise, R/V Marion Dufresne 2 (with South Africa), 2005
- Kerguelac 2, R/V Marion Dufresne 2, 2005
- Indian Ocean, confidential cruise, R/V Le Suroît, 2006
- Europlac, R/V Marion Dufresne 2, Mozambique Channel, 2007
- Discovery Ridge 2010 Crozetplac, R/V Marion Dufresne 2 (with South Africa), 2010
- Wallisplac, R/V L'Atalante (with Tuvalu and the South Pacific Applied Geoscience Commission — SOPAC), 2010
- SPMPPlac, R/V Le Suroît, Atlantic Ocean, Saint Pierre and Miquelon, 2011

Attendance at recent conferences on the law of the sea

- 2003: Conference on the Legal and Scientific Aspects of Continental Shelf Limits, Reykjavik, Twenty-Seventh Annual Conference of the Centre for Oceans Law and Policy at the University of Virginia School of Law and the Law of the Sea Institute of Iceland
- 2004: Workshop on the Continental Shelf, Institute for the Economic Law of the Sea (INDEMER), Monaco
- 2005: Co-organizer of the session of the Annual Meeting of AGU on the United Nations Convention on the Law of the Sea, San Francisco, United States of America
- 2008: Co-organizer of the session of the 33rd International Geological Congress on the United Nations Convention on the Law of the Sea: global databases and data management, Oslo, Norway
- 2011: Co-organizer of the session of GAC/MAC on the United Nations Convention on the Law of the Sea, Ottawa, Canada

- 2011: International workshop for the sharing of experience by countries which have deposited submissions with the Commission on the Limits of the Continental Shelf, Buenos Aires, Argentina

Research interests

- Scientific and technical questions related to the delimitation of the outer limit of the continental shelf
- Nature and evolution of continental margins, sedimentary basins and their potential resources
- Interpretation methods for potential fields
- Geodynamics and plate tectonics

Publications, abstracts, conferences and seminars

Dr. Roest has published or co-published over 50 peer-reviewed articles, some 50 reports and over 200 abstracts in national and international journals and other publications. He has also drafted or assisted with the drafting of a large number of assessments and drawn up many maps, open file reports and papers on various issues relating to continental margins and their potential resources, including in his capacity as the Scientific and Technical Manager of EXTRAPLAC, on the delineation of the outer limits of the continental shelf pursuant to the United Nations Convention on the Law of the Sea. He has participated in more than 70 national and international conferences and seminars.

Citation index

Source:	Web of Science
Number of peer-reviewed papers:	56
Number of citations:	2,034
H-index:	23

Peer-reviewed publications

Pichot, T., M. Patriat, G. K. Westbrook, T. Nalpas, M.-A. Gutscher, W. R. Roest, E. Deville, M. Moulin, D. Aslanian and M. Rabineau, 2012. Tectonostratigraphic evolution of the Barracuda Ridge and Tiburon Rise as recorded by Cenozoic stratigraphy, east of the Barbados accretionary wedge, *Marine Geology* (in press).

Sauter, D., H. Sloan, M. Cannat, J. Goff, P. Patriat, M. Schaming and W. R. Roest, 2011. From slow to ultra-slow: How does spreading rate affect seafloor roughness and crustal thickness? *Geology*, 39, pp. 911-914, DOI: 10.1130/G32028.1

Patriat M., T. Pichot, G. K. Westbrook, M. Ueber, E. Deville, F. Benard, W. R. Roest, B. Loubrieu and the ANTIPLAC Cruise Party, 2011. Evidence for quaternary convergence across the North America-South America plate boundary zone, east of the Lesser Antilles, *Geology*, 39, pp. 979-982, DOI: 10.1130/G32474.1

Maia, M., I. Pessanha, E. Courreges, M. Patriat, P. Gente, C. Hemond, M. Janin, K. Johnson, W. Roest, J. Y. Royer and J. Vatteville, 2011. Building of the Amsterdam-Saint Paul plateau: A 10 Myr history of a ridge-hot spot interaction and

variations in the strength of the hot spot source, *Journal of Geophysical Research — Solid Earth*, 116, B09104, DOI: 10.1029/2010JB007768.

Herzer, R.H., D. H. N. Barker, W. R. Roest and N. Mortimer, 2011. Oligocene-Miocene spreading history of the northern South Fiji Basin and implications for the evolution of the New Zealand plate boundary, *Geochemistry Geophysics Geosystems*, 12, article No. Q02004, DOI:10.1029/2010GC003291.

Labails, C., Jean-Louis Olivet, D. Aslanian and W. R. Roest, 2010. An alternative early opening scenario for the Central Atlantic Ocean, *Earth and Planetary Science Letters*, 297, pp. 355-368.

Gaullier, V., L. Loncke, L. Droz, C. Basile, A. Maillard, M. Patriat, W. R. Roest, B. Loubrieu, L. Folens and F. Carol, 2010. Slope instability on the French Guiana transform margin from swath-bathymetry and 3.5kHz echograms, *Advances in Natural and Technological Hazards Research*, 28, pp. 569-579.

Benard, F., J. P. Callot, R. Vially, J. Schmitz, W. Roest, M. Patriat, B. Loubrieu and the EXTRAPLAC Team, 2010. The Kerguelen plateau: Records from a long living/composite microcontinent, *Marine and Petroleum Geology*, 27(3), pp. 633-649.

Loncke, L., L. Droz, V. Gaullier, C. Basile, M. Patriat and W. R. Roest, 2009. Slope instabilities from echo-character mapping along the French Guiana transform margin and Demerara abyssal plain, *Marine and Petroleum Geology*, 26, pp. 711-723.

Whittaker, J. M., R. D. Müller, W. R. Roest et al., 2008. How supercontinents and superoceans affect seafloor roughness, *Nature*, 456, pp. 938-U73, DOI: 10.1038/nature07573

Müller, R. D., M. Sdrolias, C. Gaina and W. R. Roest, 2008. Age, spreading rates, and spreading asymmetry of the world's ocean crust, *Geochemistry Geophysics Geosystems*, 9, article No. Q04006

Peschler, A. P., K. Benn and W. R. Roest, 2006. Gold-bearing shear belts related to Late Archean orogenic folding of upper and middle crust in the Abitibi granite-greenstone belt, Ontario, *Precambrian Research*, 151, pp. 143-159.

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Peschler, A. P., K. Benn and W. R. Roest, 2004. Insights on Archean continental geodynamics from gravity modelling of granite-greenstone terranes, *Journal of Geodynamics*, 38, pp. 185-207.

Ravat, D., T. G. Hildenbrand and W. R. Roest, 2003. New way of processing near-surface magnetic data; the utility of the comprehensive model of the magnetic field, *The Leading Edge*, 22, pp. 784-785.

Hildenbrand, T. G., W. J. Hinze, G. R. Keller, V. Labson and W. R. Roest, 2002. Unique U.S. magnetic anomaly data base forthcoming, *Eos, Transactions, American Geophysical Union*, 83, p. 576.

Gaina, C., W. R. Roest and R. D. Müller, 2002. Late Cretaceous Cenozoic deformation of northeast Asia, *Earth and Planetary Science Letters*, 197, pp. 273-286.

- Bourlon, E, J. C. Mareschal, W. R. Roest and H. Telmat, 2002. Geophysical Correlations in Ungava Bay, *Canadian Journal of Earth Sciences*, 39, 5, pp. 625-637.
- Hannington, M. D., P. Herzig, P. Stoffers, J. Scholten, R. Botz, D. Garbe Schönberg, I. R. Jonasson, W. R. Roest et al., 2001. First observations of high temperature submarine hydrothermal vents and massive anhydrite deposits off the north coast of Iceland, *Marine Geology*, 177, pp. 199-220.
- Müller, R. D, C. Gaina, W. R. Roest and D. L. Hansen, 2001. A recipe for micro-continent formation, *Geology*, 29, pp. 203-206.
- Srivastava, S. P., J. C. Sibuet, S. Cande, W. R. Roest and I. D. Reid, 2000. Magnetic evidence for slow seafloor spreading during the formation of the Newfoundland and Iberian margins, *Earth and Planetary Science Letters*, 182, pp. 61-76.
- Pilkington, M, W. F. Miles, G. M. Ross and W. R. Roest, 2000. Potential field signatures of buried Precambrian basement in the Western Canada Sedimentary Basin, *Canadian Journal of Earth Sciences*, 37.
- Müller, R. D., J.-Y. Royer, S. C. Cande, W. R. Roest and S. Maschenkov, 1999. A quantitative analysis of North American-South American plate motions since chron 34 (83 Ma), in: *Sedimentary Basins of the World: Caribbean Sedimentary Basins*, P. Mann, ed., Elsevier Science.
- Benn, K., W. R. Roest, P. Rochette, N. G. Evans and G. S. Pignotta, 1999. Geophysical and structural signatures of syntectonic batholith construction: the South Mountain Batholith, Meguma Terrane, Nova Scotia, *Geophysical Journal International*, 136, pp. 144-158.
- Bird, R. T., W. R. Roest, M. Pilkington, R. E. Ernst and K. L. Buchan, 1999. An approach to the reconstruction of deformed continental crust using gridded geophysical data, *Exploration Geophysics*, 30, pp. 101-104.
- Srivastava, S. P. and W. R. Roest, 1999. The extent of oceanic crust in the Labrador Sea, *Marine and Petroleum Geology*, 16, pp. 65-84.
- Gaina, G., W. R. Roest, R. D. Müller and P. Symonds, 1998. The opening of the Tasman Sea: A gravity anomaly grid animation, 1998, *Earth Interactions*, vol. 2, issue 4, pp. 1-23.
- Müller, R. D., W. R. Roest and J. Y. Royer, 1998. Asymmetric sea floor spreading caused by ridge plume interactions, *Nature*, 396, pp. 455-459.
- Pilkington, M., and W. R. Roest, 1998. Removing varying directional trends in aeromagnetic data, *Geophysics*, 63, pp. 446-453.
- Müller, R. D., W. R. Roest, J.-Y. Royer, L. Cahagan and J. Sclater, 1997. Digital isochrons of the worlds oceans, *Journal of Geophysical Research*, 102, pp. 3211-3214.
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- Srivastava, S. P., and W. R. Roest, 1995. Nature of thin crust across the southwest Greenland margin and its bearing on the location of the ocean-continent boundary, in: E. Banda et al., eds., *Rifted Ocean-Continent Boundaries*, pp. 95-120, Kluwer Academic Publishers.
- Roest, W. R., and M. Pilkington, 1994. Restoring post-impact deformation at Sudbury: A circular argument, *Geophysical Research Letters*, 21, pp. 959-962
- Miles, P. R., and W. R. Roest, 1993. Earliest seafloor spreading magnetic anomalies in the North Arabian Sea and the ocean-continent transition, *Geophysical Journal International*, 115, pp. 1025-1031.
- Roest, W. R., and M. Pilkington, 1993. Identifying remanent magnetization effects in magnetic data, *Geophysics*, 58, pp. 653-659.
- Verhoef, J., and W. R. Roest, 1993. Reading the stripes: offshore discoveries in plate tectonics, *Canadian Journal of Earth Sciences*, 30, pp. 261-277.
- Sibuet, J. C., J. Verhoef and W. R. Roest, 1992. In Memoriam: Professor Bastiaan Jacob Collette 1930-1991, *Marine and Geophysical Research*, 14, pp. 89-92.
- Pilkington, M., and W. R. Roest, 1992. Draping aeromagnetic data in areas of rugged topography, *Journal of Applied Geophysics*, 29, pp. 135-142.
- Collette, B. J., and W. R. Roest, 1992. Further investigations of the North Atlantic between 10° and 40° N and an analysis of spreading from 118 Ma to present, *Proceedings of the Koninklijke Nederlandse Akademie van Wetenschappen*, 95, pp. 159-296.
- Roest, W. R., J. Arkani-Hamed and J. Verhoef, 1992. The spreading rate dependence of the anomalous skewness of seafloor spreading magnetic anomalies, *Geophysical Journal International*, 109, pp. 653-669.
- Roest, W. R., R. D. Müller and J. Verhoef, 1992. Age of the ocean floor: A digital data set for the Labrador Sea and western North Atlantic, *Geoscience Canada*, 19, pp. 27-32.
- Müller, R. D., and W. R. Roest, 1992. Fracture zones in the North Atlantic from combined Geosat and Seasat data, *Journal of Geophysical Research*, 97, pp. 3337-3350.
- Roest, W. R., J. J. Dañobeitia, J. Verhoef and B. J. Collette, 1992. Magnetic anomalies in the Canary Basin and the Mesozoic evolution of the central North Atlantic, *Marine and Geophysical Research*, 14, pp. 1-24.
- Roest, W. R., J. Verhoef and M. Pilkington, 1992. Magnetic interpretation using the 3-D analytic signal, *Geophysics*, 57, pp. 116-125.
- Srivastava, S. P., and W. R. Roest, 1992. King's Trough: reactivated pseudo fault of a propagating rift; *Geophysical Journal International*, 108, pp. 143-150.

- Roest, W. R., and W. P. Srivastava, 1991. Kinematics of the plate boundaries between Eurasia, Iberia and Africa in the North Atlantic from Late Cretaceous to present, *Geology*, 19, pp. 613-616.
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- Srivastava, S. P., W. R. Roest, G. Oakey, S. Levesque, L. C. Kovacs, J. Verhoef and R. Macnab, 1990. The motion of Iberian as obtained from a detailed aeromagnetic survey in the Newfoundland Basin, *Tectonophysics*, 184, pp. 229-260.
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- Marillier, F., P. Hull, W. R. Roest and P. Durling, 1990. New color techniques help to interpret deep seismic reflections, *Eos, Transactions, American Geophysical Union*, 71, p. 1147/1150.
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- Keen, C. E., W. A. Kay and W. R. Roest, 1990. Crustal anatomy of a transform continental margin, *Tectonophysics*, 173, pp. 527-544.
- Srivastava, S. P., H. Schouten, W. R. Roest, K. D. Klitgord, L. C. Kovacs, J. Verhoef and R. Macnab, 1990. Iberian plate kinematics: A jumping plate boundary between Eurasia and Africa, *Nature*, 344, pp. 756-759.
- Verhoef, J., W. R. Roest and S. P. Srivastava, 1989. Plate reconstructions and gridded data sets: a new tool in deciphering correlations across oceans, *Eos, Transactions, American Geophysical Union*, 70, p. 609/618.
- Roest, W. R., and S. P. Srivastava, 1989. Seafloor spreading in the Labrador Sea: a new reconstruction, *Geology*, 17, pp. 1000-1003.
- Roest, W. R., and B. J. Collette, 1986. The Fifteen Twenty Fracture Zone and the North American-South American plate boundary, *Journal of the Geophysical Society*, 143, pp. 833-843.
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- Collette, B. J., A. P. Slootweg, J. Verhoef and W. R. Roest, 1984. Geophysical investigations of the floor of the Atlantic Ocean between 10° and 38°N (Kroonvlag Project), *Proceedings of the Koninklijke Nederlandse Akademie van Wetenschappen*, series B, 87, pp. 1-76.

Reports

- EXTRAPLAC project team, 2009. Partial submission to the Commission on the Limits of the Continental Shelf, part 1, executive summary, Kerguelen and the Antilles
- EXTRAPLAC project team, 2009. Partial submission to the Commission on the Limits of the Continental Shelf, part 2, main text — Îles Kerguelen

EXTRAPLAC project team, 2009. Partial submission to the Commission on the Limits of the Continental Shelf, part 2, main text — French Antilles

EXTRAPLAC project team, 2009. Partial submission to the Commission on the Limits of the Continental Shelf, part 1, executive summary, Reunion and Saint-Paul and Amsterdam

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EXTRAPLAC project team, 2008. Report on the Kerguelac 3 cruise

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EXTRAPLAC project team, 2007. Report on the ANTIPLAC cruise

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