

J.E.T. Channell

Publications (1975-1979)

1975

Paleomagnetism and the Rotation of Italy: J.E.T. Channell and D.H. Tarling. *Earth Planet. Sci. Letters*, 25, 177-188.

1976

The African/Adriatic Promontory as a Paleogeographical Premise for Alpine Orogeny and Plate Movements in the Carpatho-Balkan Region: J.E.T. Channell and F. Horvath. *Tectonophysics*, 35, 71-101.

Umbrian paleomagnetism and the concept of the African/Adriatic promontory: J.E.T. Channell. *Mem. Geol. Soc. Ital.* 15, 119-128.

Paleogeography of Southern Appenines and Sicily: Problems of Paleotectonics and Paleomagnetism: R. Catalano, J.E.T. Channell, B. D'Argenio, and G. Napoleone, *Mem. Geol. Soc. Ital.* 15, 95-118.

1977

Further Evidence Relevant to the African/Adriatic Promontory as a Paleogeographic Premise for Alpine Orogeny: F. Horvath and J.E.T. Channell. *In: Structural History of the Mediterranean Basins. Editors: L. Montadert and B. Biju-Duval. Technip. Paris.*

Paleomagnetism of Limestones from the Gargano Peninsula (Italy), and the Implication of these data: J.E.T. Channell. *Geophys. J.R. Astr. Soc.* 51, 605-616.

1978

Paleomagnetism and Tectonics in Umbria, Italy: J.E.T. Channell, W. Lowrie, F. Medizza and W. Alvarez. *Earth Planet. Sci. Letters* 39, 199-210.

Reappraisal of Paleomagnetism of Colli Euganei and Monti Lessini Volcanics (Italy): J.E.T. Channell, V. De Zanche and R. Sedea. *J. Geophys.* 45, 29-33.

Dual Magnetic Polarity Recorded in a single Bed of Pelagic Limestone: J.E.T. Channell. *J. Geophys.* 44, 613-622.

1979

Paleomagnetic Evidence of large Fault Displacement around the Po-Basin: A Comment: R. Kligfield and J.E.T. Channell. *Tectonophysics* 53, 139-146.

Middle and Early Cretaceous Magnetic Stratigraphy from the Cismon section, Northern Italy: J.E.T. Channell, W. Lowrie, F. Medizza. *Earth Planet. Sci. Letters* 42, 153-166.

Adria, the African Promontory, in Mesozoic Mediterranean Paleogeography. J.E.T. Channell, B. D'Argenio, F. Horvath. *Earth Sci. Reviews*. 15, 213-292.

Magnetic Susceptibility Anisotropy as an Indicator of Sedimentary Fabric in the Gurnigel Flysch: J.E.T. Channell, F. Heller and J. Van Stuijvenberg. *Eclogae Geol. Helv.* 72(3), 781-787.

Paleomagnetism of Upper Cretaceous Limestones from the Munster Basin, Germany. F. Heller and J.E.T. Channell. *J. Geophys.* 46, 413-427.

Evidencia geofisica para un modelo de evolucion de las cuencas del Mediterraneo occidental. E. Banda and J.E.T. Channell. *Estudios Geol.* 35, 5-14.

Publications (1980-1989)

1980

On the credibility of Remanent Magnetization Measurements. W. Lowrie, J.E.T. Channell, and F. Heller. Geophys. J.R. Astr. Soc. 60, 493-496.

Magnetic properties of the Swiss Flysch. J.E.T. Channell, R. Freeman, and F. Heller, J. Geophys. 48, 60-66.

Paleomagnetism in Mountain Belts. R. Van der Voo and J.E.T. Channell, Rev. Geophys. Space Physics. 18/2, 455-481.

A Review of Magnetic Stratigraphy investigations in Cretaceous Pelagic Carbonate Rocks. W. Lowrie, J.E.T. Channell and W. Alvarez. J. Geophys. Res. 85, 33597-3605.

Paleotectonic evolution of Adria, the African promontory. B. D'Argenio, F. Horvath, J.E.T. Channell. in: Geologie des Chaines alpines issues de la Tethys du 26 CGI. Memoire du B.R.G.M. no 115, 331-351.

The evolution of the Calabrian arc. J.E.T. Channell and B. D'Argenio. In: Evolution and tectonics of the Western Mediterranean and surrounding areas. Instituto Geografico Nacional, special publicaton, Madrid. 129-147.

Evolution and Tectonics of the Western Mediterrean and Surrounding areas. editors: A. Udias and J.E.T. Channell. Instituto Geografico Nacional, Madrid. Special Publication No. 201.

1981

Widespread remagnetization of Helvetic limestones. R. Kligfield and J.E.T. Channell. J. Geophys. Res. 86, 1888-1900.

Upper Cretaceous and Paleogene magnetic stratigraphy from the Venetian (Southern Alps) J.E.T. Channell and F. Medizza. Earth Planet. Sci. Lett. 55, 419-432.

1982

Timing of diagenetic haematite growth in red pelagic limestones from Gubbio (Italy). J.E.T. Channell, R. Freeman, F. Heller, and W. Lowrie. Earth Planet. Sci. Lett. 58, 189-201.

Paleomagnetic stratigraphy as a correlation technique. J.E.T. Channell. In: Numerical Dating in Stratigraphy. Editor, G.S. Odin, J. Wiley and Sons, London: 81-103.

Preliminary results from DSDP Leg 79 seaward of the Mazagan Plateau off Central Morocco. Hinz, K., Winterer, E.L., Baumgartner, P.O., Bradshaw, M.J., Channell, J.E.T., et al., In: *Geology of the Northwest African continental margin*. editors: V. von Rad, K. Hinz, M. Sarnthein and E. Reibold. Springer-Verlag. 23-33.

Potential deep sea petroleum source beds related to coastal upwelling. Rullkotter, J., Vuchev, V., Hinz, K., Winterer, E.L., Baumgartner, P.O., Bradshaw, M.J. Channell, J.E.T., et al., In: "Coastal upwelling and its sedimentary record". Proceedings of the Advanced Research Institute. Plenum Press.

Geomagnetic polarity in the early Cretaceous and Jurassic. Channell, J.E.T., Ogg, J.G., and Lowrie, W., *Phil. Trans. R. Soc. Lond. A.A* 306, 137-146.

1983

Santonian to Maastrichtian stratigraphy of some pelagic limestone sections of the Venetian Alps (Northern Italy). F. Massari, F. Medizza, and J.E.T. Channell. *Newsl. Stratigr.* 12(1): 18-28.

1984

Late Miocene magnetic stratigraphy at DSDP site 521A. Heller, F., Lowrie, W., and Channell, J.E.T., *Initial Reports of Deep Sea Drilling Project Vol. 73*, 637-644.

Magnetization of varicolored pelagic limestones from Holes 544A and 547B. J. Channell. *Initial Reports of Deep Sea Drilling Project Vol. 79*, 837-851.

Jurassic magnetic stratigraphy from Umbrian (Italian) land sections. J.E.T. Channell, W. Lowrie, P. Piali and F. Venturi. *Earth Planet. Sci. Letters.* 68: 309-325.

Magnetostratigraphy of the Jurassic-Cretaceous boundary in the Maiolica limestone (Umbria, Italy). W. Lowrie and J.E.T. Channell. *Geology.* 12(1): 44-47.

Magnetostratigraphy of the Jurassic-Cretaceous boundary in the Maiolica limestone (Umbria, Italy) Reply: W. Lowrie and J.E.T. Channell. *Geology.* 12(11): 701-702.

1985

Jurassic and Cretaceous geochronology and Jurassic to Paleogene magnetostratigraphy. A. Hallam, J.M. Hancock, J. L. LaBrecque, W. Lowrie and J.E.T. Channell. *Geol. Soc. London Memoir No. 10* (editor: N.J. Snelling). Blackwell Oxford. p. 118-141.

Natural variations in the carbon cycle during the Early Cretaceous. H.J. Weissert, J.A. McKenzie and J.E.T. Channell. Variations in the carbon cycle during the Early Cretaceous, In: The carbon cycle and atmospheric CO₂: Natural Variations Archean to Present. Editors: E.T. Sundquist and W.S. Broecker. American Geophysical Union Monograph No. 32. p. 531-545.

1986

Paleomagnetism and continental collision in the Alpine Belt, and the formation of late tectonic extensional basins. J.E.T. Channell. In: Collision Tectonics. M.P. Coward & A.C. Reis (eds.) Geol. Soc. Lond. Special Publication No. 19: 261-284.

A case study of a newly-rifted oceanic basin: preliminary results from ODP Leg 107 in the Tyrrhenian Sea. Leg 107 Scientific Staff. Geotimes. 31, 8: 11-14.

ODP Leg 107 in the Tyrrhenian Sea: A microcosm of ocean basin evolution. Leg 107 Scientific Staff. Nature. 321: 383-384.

La campagne 107 du Joides Resolution (Ocean Drilling Program) en Mer Tyrrhenienne: premiers resultats. Leg 107 Scientific Staff. C.R. Acad. Sc. 303, 2, 5: 391-396.

Paleomagnetism of deep sea sediments from the Tyrrhenian Sea, ODP Leg 107 shipboard report. Leg 107 Scientific Staff. Soc. Terr. Mag. Elec. Japan (Tokyo). April 1986.

1987

La crociera 107 della "Joides Resolution" (Ocean Drilling Program) nel Mar Tirreno: Risultati preliminari. Boll. Soc. Geol. Italiana 106, 93- 98.

Biotic, geochemical, and paleomagnetic changes across the Cretaceous/Tertiary boundary at Braggs, Alabama. D.S. Jones, P.A. Mueller, J.R. Bryan, J.P. Dobson, J.E.T. Channell, J.C. Zachos and M.A. Arthur. Geology 15: 311-315.

Biostratigraphic correlation of M-sequence chrons CM1 to CM23 at Capriolo and Xausa (S. Alps, Italy) J.E.T. Channell, T.J. Bralower and P. Grandesso. Earth Planet. Sci. Letters 85, 203 – 221.

A revised correlation of magnetozones and calpionellid zones based on new data from Italian pelagic limestone sections. J.E.T. Channell and P. Grandesso. Earth Planet. Sci. Letters 85, 222 – 240.

Ordovician docking of the Carolina slate belt: paleomagnetic data. H.K. Vick, J.E.T. Channell, N.D. Opdyke. Tectonics 6, 573 – 583.

1988

A land-locked back-arc basin: preliminary results from ODP Leg 107 in the Tyrrhenian Sea. Leg 107 Scientific Staff. In: The Origin of Arcs. F.C. Wezel (ed.). Tectonophysics 146, 149-162.

ODP Leg 107 in the Tyrrhenian Sea: insights into passive margin and back-arc basin evolution. Leg 107 Scientific Staff. Geol. Soc. Amer. Bull. 100 (7), 1140-1156.

Paleomagnetism of Late Cretaceous and Eocene limestones and chalks from Haiti – Tectonic interpretations. M.C. Van Fossen and J.E.T. Channell. Tectonics 7 (3), 601-612.

Miocene-Pliocene boundary magnetostratigraphy at Capo Spartivento, Calabria, Italy. J.E.T. Channell, D. Rio and R.C. Thunell. Geology 16, 1100-1103.

1989

Magnetic stratigraphy and magnetic mineralogy at the Cretaceous-Tertiary boundary section, Braggs, Alabama. J.E.T. Channell and J.P. Dobson. Palaeogeography, Palaeoclimatology and Palaeoecology 69, 267-277.

Paleomagnetism of Deep Sea Sediments. J.E.T. Channell In: Encyclopedia of Solid Earth Geophysics. D.E. James (ed) Van Nostrand Reinhold Co., New York, 889-891.

Delamination and asymmetric lithospheric thickening in the development of the Tyrrhenian Rift. J.E.T. Channell and J.C. Mareschal. In: Alpine Tectonics, M.P. Coward, D. Dietrich and R.G. Park (eds.), Geological Soc. London, special publication 45, 285-302.

Paleomagnetic Evidence for Tertiary anticlockwise rotation in SW Puerto Rico. M.C. Van Fossen, J.E.T. Channell and J.H. Schellekens. Geophysical Research Letters 16(8), 819-822.

Tethyan carbonate carbon isotope stratigraphy across the Jurassic-Cretaceous boundary: an indicator of decelerated global carbon cycling. H. Weissert and J.E.T. Channell. Paleoceanography 4(4), 483-494.

Publications (1990-1999)

1990

Paleomagnetic results from volcanic rocks of the Shelve Inlier, Wales: evidence for a wide late Ordovician Iapetus Ocean in Britain. C. McCabe and J.E.T. Channell. *Earth and Planetary Science Letters*, 96, 458-468.

Progressive dissolution of titanomagnetites at ODP Site 653 (Tyrrhenian Sea). J.E.T. Channell and T. Hawthorne. *Earth and Planetary Science Letters*, 96, 469-480.

Peridotites drilled from the Tyrrhenian Sea, ODP Leg 107. E. Bonatti, M. Seyler, J. Channell, J. Giraudeau and G. Mascle. *Proc. ODP, Sci. Results, 107, College Station, TX (Ocean Drilling Program)*, 37-48.

Magnetic properties and paleomagnetism of basalts from Leg 107 (Holes 651A and 655B). L. Vigliotti, M. Torii and J. Channell. *Proc. ODP, Sci. Results, 107, College Station, TX (Ocean Drilling Program)*, 99-112.

Contrasting magnetic properties in Leg 107 sediments: preservation and alteration of titanomagnetite at adjacent sites. J.E.T. Channell, T. Hawthorne and M. Torii. *Proc. ODP, Sci. Results, 107, College Station, TX (Ocean Drilling Program)*, 113-128.

Magnetostratigraphy of sediments recovered at Sites 650, 651, 652, and 654 (Leg 107, Tyrrhenian Sea). J.E.T. Channell, M. Torii and T. Hawthorne. *Proc. ODP, Sci. Results, 107, College Station, TX (Ocean Drilling Program)*, 335-346.

Two "events" recorded in the Brunhes Chron at ODP Hole 650A (ODP Leg 107, Tyrrhenian Sea): Geomagnetic Phenomena? J.E.T. Channell and M. Torii. *Proc. ODP, Sci. Results, 107, College Station, TX (Ocean Drilling Program)*, 347-360.

Planktonic foraminiferal events and stable isotope records in the Upper Miocene, Site 654. G. Glacon, C. Vergnaud Grazzini, S. Iaccarino, J.P. Rehault, A. Randrianasolo, J.F. Sierro, P. Weaver, J. Channell, M. Torii and T. Hawthorne. *Proc. ODP, Sci. Results, 107, College Station, TX (Ocean Drilling Program)*, 415-428.

Biomagnetostratigraphic correlations from Leg 107 in the Tyrrhenian Sea. J.E.T. Channell, D. Rio, G. Glacon and R. Sprovieri. *Proc. ODP, Sci. Results, 107, College Station, TX (Ocean Drilling Program)*, 669-682.

Pliocene-Early Pleistocene chronostratigraphy and the Tyrrhenian deep-sea record from Site 653. D. Rio, R. Sprovieri and J. Channell. *Proc. ODP, Sci. Results, 107, College Station, TX (Ocean Drilling Program)*, 705-714.

Paleomagnetically determined rotations in the western Sicilian fold and thrust belt. J.E.T. Channell, J.S. Oldow, R. Catalano and B. D'Argenio. *Tectonics*, 9, 641-660.

Contemporaneous thrusting and large-scale rotations in the western Sicilian fold and thrust belt. J.S. Oldow, J.E.T. Channell, R. Catalano and B. D'Argenio. *Tectonics*, 9, 661-682.

Mesozoic paleogeography of the Northern Calcareous Alps – Evidence from paleomagnetism and facies analysis. J.E.T. Channell, R. Brandner, A. Spieler and N. Smathers, *Geology*, 18, 828-831.

Magnetostratigraphy and biostratigraphy of Callovian-Oxfordian limestones from the Trento Plateau (Monti Lessini, Northern Italy). J.E.T. Channell, F. Massari, A. Benetti and N. Pezzoni. *Paleogeography, Paleoclimatology and Paleoecology*, 79, 289-304.

Some whole-rock magnetic properties of Pleistocene marine sediments from the Boso Peninsula, Central Japan. M. Torii, H. Oda and J.E.T. Channell. *Rock Magnetism and Paleogeophysics*, 17, 11-16.

The terminal Messinian flood and earliest Pliocene paleoceanography in the Mediterranean: results from ODP Leg 107, Site 652, Tyrrhenian Sea. J.A. McKenzie, R. Sprovieri and J.E.T. Channell. *In: Geology of the Oceans. M. Cita (editor). Memorie Societ Geologica Italiana*, 44, 81-92.

1991

Glass from the Cretaceous/Tertiary boundary in Haiti. H. Sigurdsson, S. D'Hondt, M.A. Arthur, T.J. Bralower, J.C. Zachos, M. van Fossen and J.E.T. Channell. *Nature*, 349, 482-487.

Magnetostratigraphy of the Jurassic-Cretaceous boundary interval – Tethyan and English faunal realms. J.G. Ogg, R.W. Hasenyager, W.A. Wimbledon, J.E.T. Channell and T.J. Bralower. *Cretaceous Research*, 12, 455-482.

Sedimentary magnetism, environmental magnetism, and magnetostratigraphy. J.W. King and J.E.T. Channell. *Reviews of Geophysics, supplement, April, 1991, US National Report to IUGG*, 358-370.

Forward to "Paleogeography and Paleoceanography of Tethys". E.L. Winterer and J.E.T. Channell. *In Paleogeography and Paleoceanography of Tethys. J.E.T. Channell, E.L. Winterer and L.F. Jansa (editors). Palaeo-3*, 87, VII.

Reply to the comment of A. Trench and T.H. Torsvik on "Paleomagnetic results from the volcanic rocks of the Shelve inlier, Wales: evidence for a wide late Ordovician Iapetus Ocean in Britain". C. McCabe and J.E.T. Channell. *Earth Planet. Sci. Letters*, 104, 540-544.

Paleogeography and Paleoceanography of Tethys. editors: J.E.T. Channell, E.L. Winterer and L.F. Jansa. Special Issue of Palaeogeography, Palaeoclimatology and Palaeoecology, 87.

1992

Magnetic Stratigraphy. J.E.T. Channell. *In: Encyclopedia of Earth System Science, W.A. Nierenberg (ed.), Volume 3, 59-64, Academic Press, San Diego CA.*

Early Cretaceous polarity chrons CM0 to CM11 recorded in northern Italian sections near Brescia. J.E.T. Channell and E. Erba. *Earth Planet. Sci. Letters, 108, 161-179.*

Early Devonian (pre-Acadian) magnetization directions in Lower Old Red Sandstone of South Wales (UK). J.E.T. Channell, C. McCabe and N.H. Woodcock. *Geophys. J. Int., 108, 883-894.*

Further Paleomagnetic results from the Builth Wells Ordovician Inlier, Wales. C. McCabe, J.E.T. Channell and N.H. Woodcock, *J. Geophys. Res., 97, 9357-9370.*

Jurassic and Cretaceous paleomagnetic data from the Southern Alps (Italy). J.E.T. Channell, C. Doglioni and J.S. Stoner. *Tectonics, 11, 811-822.*

Paleomagnetism and paleogeography of the Northern Calcareous Alps (Austria). J.E.T. Channell, R. Brandner, A. Spieler and J.S. Stoner. *Tectonics, 11, 792-810.*

Palaeomagnetic data from the Borrowdale Volcanic Group: volcano-tectonics and Late Ordovician paleolatitudes. J.E.T. Channell and C. McCabe, *J. Geol. Soc. London, 149, 881-888.*

Paleozoic paleomagnetic studies in the Welsh Basin – recent advances. J.E.T. Channell, C. McCabe, T. Torsvik, A. Trench and N.H. Woodcock. *Geol. Mag., 129, 533-542.*

Paleomagnetic data from Umbria (Italy): implications for the rotation of Adria and Mesozoic apparent polar wander paths. J.E.T. Channell. *Tectonophysics, 216, 365-378.*

Calcareous plankton biostratigraphy, magnetostratigraphy and paleoclimatic history of the Plio-Pleistocene Monte- San Nicola section (southern Sicily). J.E.T. Channell, E. Di Stefano and R. Sprovieri, *Boll. Soc. Paleontol. Ital., 31 (3), 351-382.*

1993

Magnetostratigraphic calibration of the Late Valanginian carbon isotope event in pelagic limestones from Northern Italy and Switzerland. J.E.T. Channell, E. Erba and A. Lini. *Earth Planet Sci. Letters, 118, 145-166.*

Palaeomagnetic study of Llandovery (Lower Silurian) red beds in northwest England. J.E.T. Channell, C. McCabe and N.H. Woodcock. *Geophys. J. Int.* 115, 1085-1094.

1994

Early Triassic paleomagnetism in the Dolomites (Italy). J.E.T. Channell and C. Doglioni. *Tectonics*, 13(1), 157-166.

Late Paleozoic remagnetization in limestones of the Craven Basin (northern England) and the rock magnetic fingerprint of remagnetized sedimentary carbonates. C. McCabe and J.E.T. Channell. *J. Geophys. Res.*, 99, 4603-4612.

Comparison of magnetic hysteresis parameters of unremagnetized and remagnetized limestones. J.E.T. Channell and C. McCabe. *J. Geophys. Res.*, 99, 4613-4623.

Magnetic stratigraphy and biostratigraphy of Pliocene "Argille Azzurre" (Northern Apennines, Italy). J.E.T. Channell, M.S. Poli, D. Rio, R. Sprovieri and G. Villa. *Palaeo-3*, 110, 83-102.

High resolution rock magnetic study of a Late Pleistocene core from the Labrador Sea. J.S. Stoner, J.E.T. Channell, C. Hillaire-Marcel and J-C. Mareschal. *Canadian Journal Earth Sciences*, 31, 104-114.

Magnetostratigraphy and biostratigraphy of an Anisian-Ladinian (Middle Triassic) boundary section from Hydra (Greece). G. Muttoni, J.E.T. Channell, A. Nicora and R. Rettori. *Palaeo-3*, 111, 249-262.

Comment on "Magnetostratigraphy of the Hettangian Langmoos section (Adnet, Austria): evidence for time-delayed phases of magnetization" by Y. Gallet, D. Vandamme and L. Krystyn. J.E.T. Channell and J.S. Stoner. *Geophys. J. Int.* 119, 1005-1007.

Review of: Applications of Paleomagnetism to Sedimentary Geology edited by D.M. Aissaoui, D.F. McNeill and N.F. Hurley, review by J.E.T. Channell. *J. Sedimentary Research*, 64A (4), 935, 1994.

1995

Late Cretaceous – Early Tertiary paleomagnetism and a revised tectonostratigraphic subdivision of Costa Rica and western Panama. G. Di Marco, P.O. Baumgartner and J.E.T. Channell. In: *Geologic and Tectonic Development of the Caribbean plate boundary in southern Central America*. P. Mann (ed.). Geological Society of America, Special Paper 295, 1-27.

Magnetic properties of deep-sea sediments off southwest Greenland: evidence for major differences between the last two deglaciations. J.S. Stoner, J.E.T. Channell and C. Hillaire-Marcel. *Geology*, 23, 241-244.

Geomagnetic polarity stratigraphy and nannofossil biostratigraphy at the K/T boundary section near Beloc, Haiti. M.C. Van Fossen, J.E.T. Channell and T.J. Bralower. *Cretaceous Research*, 16, 131-139.

Correlations of Hauterivian and Barremian (Early Cretaceous) stage boundaries to polarity chrons. J.E.T. Channell, F. Cecca and E. Erba. *Earth Planet. Sci. Letters*, 134, 125-140.

Late Pleistocene relative geomagnetic paleointensity from the deep Labrador Sea: regional and global correlations. J.S. Stoner, J.E.T. Channell and C. Hillaire-Marcel. *Earth Planet. Sci. Letters*, 134, 237-252.

Recalibration of the geomagnetic polarity timescale. J.E.T. Channell. U. S. National Report to International Union of Geodesy and Geophysics 1991-1994, *Reviews of Geophysics, supplement, July 1995*, 161-168.

Late Jurassic – Early Cretaceous timescales and oceanic magnetic anomaly block models. J.E.T. Channell, E. Erba, M. Nakanishi and K. Tamaki. *In: Geochronology, Time Scales and Stratigraphic Correlation. W.A. Berggren, D.V. Kent, M. Aubry and J. Hardenbol (eds.). SEPM Special Publication*, 54, 51-63.

Paleomagnetism. J.E.T. Channell. *In: Encyclopedia of Applied Physics, Volume 13, edited by E.H. Immergut. VCH Publishers, New York*, 89-99.

1996

Magnetic Stratigraphy. N.D. Opdyke and J.E.T. Channell, Academic Press, San Diego CA, 346 pp.

Palaeomagnetism and Palaeogeography of Adria. J.E.T. Channell. *In: Palaeomagnetism and Tectonics of the Mediterranean Region. A. Morris and D.H. Tarling (eds.). Geological Society London, Special Publication*, 105, 119-135.

Jurassic-Cretaceous paleomagnetism and paleogeography of the Pontides (Turkey). J.E.T. Channell, O. Tysz, O. Bektas and A.M.C. Sengr. *Tectonics*, 15, 205-215.

The magnetic signature of rapidly deposited detrital layers from the deep Labrador Sea: relationship to North Atlantic- Heinrich Layers. J.S. Stoner, J.E.T. Channell and C. Hillaire-Marcel. *Paleoceanography*, 11, 309-325.

Evolution of Pangea: paleomagnetic constraints from the Southern Alps, Italy. G. Muttoni, D.V. Kent and J.E.T. Channell. *Earth Planet. Sci. Letters*, 140, 97-112.

Reading Pleistocene eustasy in a tectonically active siliciclastic shelf setting (Crotone peninsula, southern Italy). D. Rio, J.E.T. Channell, F. Massari, M.S. Poli, M. Sgavetti, A. D'Alessandro and G. Prosser. *Geology*, 24, 743-746.

1997

How many oceans? Meliata, Vardar and Pindos oceans in Mesozoic Alpine paleogeography. J.E.T. Channell and H. W. Kozur. *Geology*, 25, 183-186.

Pliocene sapropels in northern Adriatic area: chronology and paleoenvironmental significance. D. Rio, J.E.T. Channell, R. Bertoldi, M.S. Poli, P.P. Vergerio, I. Raffi, R. Sprovieri and R.C. Thunell. *Palaeogeography, Palaeoclimatology, Palaeoecology* 135, 1-25

Integrated stratigraphy of the Upper Burdigalian-Lower Langhian section at Moria (Marche Region, Italy). A. Deino, J. Channell, R. Coccioni, G. De Grandis, D.J. DePaolo, E. Fornaciari, L. Emmanuel, M.A. Laurenzi, A. S. Montanari, D. Rio and M. Renard, *In: Miocene Stratigraphy: an integrated approach*. A. Montanari, G.S. Odin and R. Coccioni (eds.), Elsevier Science B.V., Amsterdam, 315-341.

The last two geomagnetic polarity reversals recorded in high-deposition-rate sediment drifts. J.E.T. Channell and B. Lehman. *Nature*, 389, 712-715.

Relative geomagnetic paleointensity and $\delta^{18}O$ at ODP Site 983 (Gardar Drift, North Atlantic) since 350 ka. J.E.T. Channell, D.A. Hodell and B. Lehman. *Earth Planet. Sci. Letters*, 153, 103-118.

1998

Orbital modulation of the Earth's magnetic field intensity. J.E.T. Channell, D.A. Hodell, J. McManus and B. Lehman. *Nature*, 394, 464-468.

A 200 kyr geomagnetic chronostratigraphy for the Labrador Sea: indirect correlation of the sediment record to SPECMAP. J.S. Stoner, J.E.T. Channell and C. Hillaire-Marcel. *Earth Planet. Sci. Letters*, 159, 165-181.

Late Cenozoic seismic stratigraphy and glacial geological development of the East Greenland and Svalbard-Barents Sea continental margins. A. Solheim, J.I. Faleide, E.S. Andersen, A. Elverhoi, C.F. Forsberg, K. Vanneste, G. Uenzelmann-Neben and J.E.T. Channell. *Quaternary Science Reviews*, 17, 155-184.

1999

The top Olduvai polarity transition at ODP Site 983 (Iceland Basin). A. Mazaud and J.E.T. Channell. *Earth Planet. Sci. Letters*, 166, 1-13.

Magnetic stratigraphy at Site 907 and Site 985 in the Norwegian-Greenland Sea, and revision of the Site 907 composite section. J.E.T. Channell, A.E. Amigo, T. Fronval, F. Rack, B. Lehman. *In: Jansen, E., Raymo, M.E., Blum, P. and Herbert, T. (Eds.), 1999. Proc. ODP, Sci. Results, 162: College Station, TX (Ocean Drilling Program), 131-148.*

Magnetic stratigraphy of North Atlantic Sites 980-984. J.E.T. Channell, B. Lehman. *In: Jansen, E., Raymo, M.E., Blum, P. and Herbert, T. (Eds.), 1999. Proc. ODP, Sci. Results, 162: College Station, TX (Ocean Drilling Program), 113-130.*

Age models for glacial fan deposits off east Greenland and Svalbard (Sites 986 and Site 987). J.E.T. Channell, M. Smelror, E. Jansen, S. Higgins, B. Lehman, T. Eidvin, and A. Solheim. *In: Jansen, E., Raymo, M.E., Blum, P. and Herbert, T. (Eds.), 1999. Proc. ODP, Sci. Results, 162: College Station, TX (Ocean Drilling Program), 149-166.*

The depositional environment of the western Svalbard margin during the Late Pliocene and the Pleistocene: sedimentary facies changes at Site 986. C.F. Forsberg, A. Solheim, A. Elverhi, E. Jansen, J.E.T. Channell and E.S. Andersen. *In: Jansen, E., Raymo, M.E., Blum, P. and Herbert, T. (Eds.), 1999. Proc. ODP, Sci. Results, 162: College Station, TX (Ocean Drilling Program), 233-246.*

Integrated stratigraphy of the Cismon APTICORE (Southern Alps, Italy): a “reference section” for the Barremian-Aptian interval at low latitudes. E. Erba, J.E.T. Channell, M. Claps, C. Jones, R. Larson, B. Opdyke, I. Premoli-Silva, A. Riva, G. Salvini and S. Torricelli. *In: Biotic change and paleoecology of Black Shale Environments: A memorial to William V. Sliter, edited by B. Huber, T.J. Bralower and R.M. Leckie, J. Foraminiferal Research, 29, 371-391.*

Geomagnetic paleointensity and directional secular variation at Ocean Drilling Program (ODP) Site 984 (Bjorn Drift) since 500 ka: Comparisons with ODP Site 983 (Gardar Drift). J.E.T. Channell. *J. Geophys. Res.*, 104, 22,937-22,951.

Publications (2000-2009)

2000

Geomagnetic paleointensity for the last 100 kyr from the subantarctic South Atlantic: a tool for inter-hemispheric correlation. J.E.T. Channell, J.S. Stoner, D.A. Hodell and C.D. Charles. *Earth Planet. Sci. Letters*, 175, 145-160.

Geomagnetic palaeointensities and astrochronological ages for the Matuyama-Brunhes boundary and the boundaries of the Jaramillo Subchron: palaeomagnetic and oxygen isotope records from ODP Site 983. J.E.T. Channell and H.F. Kleiven. *Phil. Trans. R. Soc. Lond. A*, 358, 1027-1047.

North Atlantic Paleointensity Stack since 75 ka (NAPIS-75) and the duration of the Laschamp Event. C. Laj, C. Kissel, A. Mazaud, J.E.T. Channell and J. Beer. *Phil. Trans. R. Soc. Lond. A*, 358, 1009-1025.

Early Cretaceous magnetic stratigraphy in the APTICORE drill core and adjacent outcrop at Cismon (Southern Alps, Italy), and correlation to the proposed Barremian/Aptian boundary stratotype. J.E.T. Channell, E. Erba, G. Muttoni and F. Tremolada. *Geol. Soc. Amer. Bull.*, 112, 1430-1443.

Geomagnetic paleointensity and environmental record from Labrador Sea Core MD95-2024: Global marine sediment and ice core chronostratigraphy for the last 110 kyr. J.S. Stoner, J.E.T. Channell, C. Hillaire-Marcel and C. Kissel. *Earth Planet Sci. Letters*, 183, 161-177.

Wavelet analysis of relative geomagnetic paleointensity at ODP Site 983. Y. Guyodo, P. Gaillot and J.E.T. Channell. *Earth Planet. Sci. Letters*, 184, 109-123.

Pliocene-Pleistocene ice rafting history and cyclicity in the Nordic Seas during the last 3.5 Myr. E. Jansen, T. Fronval, F. Rack and J.E.T. Channell. *Paleoceanography*, 15, 709-721.

2001

A sedimentary paleomagnetic record of the Matuyama Chron from the western Antarctic margin (ODP Site 1101). Y. Guyodo, G.D. Acton, S. Brachfeld and J.E.T. Channell. *Earth Planet. Sci. Letters*, 191, 61-74, 2001.

Detection and Identification of Fe-Bearing Minerals in Pelagic Limestone: Micro-XANES and Fluorescence Imaging, Y. Guyodo, J.E.T. Channell, M. Davidson, A. Mikhailova, H. Tostmann, M. Newville, and R. Duran, *Advanced Photon Source User Activity Report*, 2001.

2002

Late Oligocene to early Miocene paleoceanography from the Subantarctic Southern Ocean (ODP Leg 177). K. Billups, J.E.T. Channell and J. Zachos. *Paleoceanography*, 17 (1), 10.1029/2000PA000568

South Atlantic (SAPIS) and North Atlantic (NAPIS) geomagnetic paleointensity stacks (0-80 ka): implications for inter-hemispheric correlation. J.S. Stoner, C. Laj, J.E.T. Channell and C. Kissel. *Quaternary Science Reviews*, 21, 1141-1151.

Geomagnetic excursions and paleointensities in the 0.9-2.15 Ma interval of the Matuyama Chron at ODP Site 983 and 984 (Iceland Basin). J.E.T. Channell, A. Mazaud, P. Sullivan, S. Turner, M.E. Raymo. *J. Geophys. Res.*, 107 (B6) 10.1029/2001JB000491.

Plio-Pleistocene magnetic polarity stratigraphies and diagenetic magnetite dissolution at ODP Leg 177 Sites (1089, 1091, 1093 and 1094). J.E.T. Channell and J.S. Stoner. *Marine Micropaleontology*, 45, 269-290.

The mid-Pliocene (4.3-2.6 Ma) benthic stable isotope record of the Southern ocean: ODP Site 1092 and 704, Meteor Rise. C. Andersson, D.A. Warnke, J.E.T. Channell, J. Stoner and E. Jansen, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 182, 165-181.

History of ice-rafting at South Atlantic ODP Site 1092 during the Gauss and Late Gilbert Chrons. L. Murphy, D. A. Warnke, C. Andersson, J.E.T., Channell and J.S. Stoner. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 182, 183-196.

Effects of variable sedimentation rates and age errors on the resolution of sedimentary paleointensity records. Y. Guyodo and J.E.T. Channell, *Geochemistry, Geophysics and Geosystems*. (G3) 10.1029/2001GC000211, August 2002.

Deconvolution of u-channel paleomagnetic data near geomagnetic reversals and short events. Y. Guyodo, J.E.T. Channell and R. Thomas. *Geophys. Res. Letters*, 29, 1845, doi:10.1029/2002GL014963.

2003

Carnian – Norian biomagnetostratigraphy at Silick Brezov (Slovakia): correlation to other Tethyan sections and to the Newark Basin. J.E.T. Channell, H.W. Kozur, T. Sievers, R. Mock, R. Aubrecht and M. Sykora. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 191, 65-109.

Eocene to Miocene magnetostratigraphy, biostratigraphy, and chemostratigraphy at ODP Site 1090 (sub-Antarctic South Atlantic). J.E.T.Channell, S. Galeotti, E.E. Martin, K. Billups, H. Scher and J.S. Stoner. *Geological Society of America Bulletin*, 115, 607-623.

Paleomagnetic record at ODP Site 980 (Feni Drift, Rockall) for the past 1.2 Myrs. J.E.T. Channell and M.E. Raymo. *Geochemistry, Geophysics and Geosystems (G3)*, doi:10.1029/2002GC000440.

Late Miocene magnetic stratigraphy from ODP Site 1092 (sub-Antarctic South Atlantic): recognition of “cryptochrons” in C5n.2n. H.F. Evans and J.E.T. Channell, *Geophys. J. Int.*, 153, 483-496.

A 580 kyr paleomagnetic record from the sub-Antarctic South Atlantic (ODP Site 1089). J.S. Stoner, J.E.T. Channell, D. A. Hodell and C. Charles. *J. Geophys. Res.*, 108, 2244, doi:10.1029/2001JB001390.

Integrated chronostratigraphic calibration of the Oligocene-Miocene boundary at 24.0 +/- 0.1 Ma from the CRP-2A drill core, Ross Sea, Antarctica. Comment: J.E.T. Channell and E. E. Martin, *Geology*, DOI 10.1130/0091-7613(2003).

U-channel track for susceptibility measurements. R. Thomas, Y. Guyodo and J.E.T. Channell. *Geochemistry, Geophysics and Geosystems (G3)*, 1050, doi: 10.1029/2002GC000454.

The Réunion Subchronozone at ODP Site 981 (Feni Drift, North Atlantic), J.E.T. Channell, J. Labs and M.E. Raymo. *Earth Planet. Sci. Letters*, 215, 1-12.

Chapman Conference on Time Scales of Geomagnetic Field (Section News). J. Geissman and J. Channell. *Trans. Amer. Geophys. Union (Eos)*, 84 (35), 340-344.

2004

Recognition of alkenones in a lower Aptian porcellanite from the west-central Pacific. S.C. Brassell, M. Dumitrescu and ODP Leg 198 Scientific Party, *Organic Geochemistry*, 35, 181-188.

ODP Site 1092: revised composite depth section has implications for Upper Miocene “cryptochrons”. H. F. Evans, T. Westerhold and J.E.T. Channell, *Geophys. Journal. Int.*, 156, 195-199.

Late Neogene-Quaternary North Atlantic climate. J.E.T. Channell, T. Sato, T. Kanamatsu, R. Stein and M.J. Malone. *IODP Sci. Prosp.*, 303/306.

The Matuyama-Brunhes boundary interval (500-900 ka) in North Atlantic drift sediments. J.E.T. Channell, J.H. Curtis and B.P. Flower. *Geophys. J. Int.*, 158, 489-505.

Miocene Magnetostratigraphy from Equatorial Pacific sediments (ODP Site 1218, Leg 199). L. Lanci, J.M. Pares, J.E.T. Channell and D.V. Kent. *Earth Planet. Sci. Letters*, 226, 207-224.

Astronomic calibration of the Late Oligocene through Early Miocene geomagnetic polarity time scale. K. Billups, H. Palike, J.E.T. Channell, J. Zachos and N.J. Shackleton. *Earth Planet. Sci. Letters*, 224, 33-44.

The Matuyama Chronozone at ODP Site 982 (Rockall Bank): Evidence for decimeter-scale magnetization lock-in depths. J.E.T. Channell and Y. Guyodo, In: “*Timescales of the Internal Geomagnetic Field*”. J.E.T. Channell, D.V. Kent, W. Lowrie and J. Meert (editors), *AGU Geophysical Monograph* 145, 205-219.

Detection, identification and mapping of iron anomalies in brain tissue using X-ray absorption spectroscopy. A. Mikhaylova, M. Davidson, M. Toastmann, J. E. T. Channell, Y. Guyodo, C. Batich , J. Dobson. *Journal of The Royal Society: Interface*, ISSN: 1742-5689 (Paper) 1742-5662 (Online), DOI: 10.1098/rsif.2004.0011, 1-5.

2005

Shipboard Scientific Party, 2005. North Atlantic climate: ice sheet-ocean atmosphere interactions on millennial timescales during the late Neogene-Quaternary using a paleointensity-assisted chronology for the North Atlantic. *IODP Prel. Rept.*, 303. Available at: <http://iodp.tamu.edu/publications/PR/303PR/303PR.PDF>

Expedition 303: North Atlantic Climate. J.E.T. Channell. *JOI/USSAC Newsletter*, Spring 2005, p. 5.

Late Miocene-Holocene magnetic polarity stratigraphy and astrochronology, ODP Leg 198, Shatsky Rise. Evans, H.F., Channell, J.E.T., and Sager, W.W., 2005, In *Bralower, T.J., Premoli Silva, I., and Malone, M.J. (Eds.), Proc. ODP, Sci. Results, 198 [Online]*. Available at: http://www-odp.tamu.edu/publications/198_SR/118/118.htm.

Climatic patterns revealed by pollen and oxygen isotope records across the Brunhes-Matuyama boundary in central Mediterranean (Southern Italy). L. Capraro, A. Asioli, J. Backman, R. Bertoldi, J.E.T. Channell, F. Massari and D. Rio. In: *Head M.J. and Gibbard, P.L. (eds.), Early-Middle Pleistocene Transitions: The Land-Ocean Evidence*, Geological Society of London, *Special Publication* 247, 159-182.

Oligocene magnetostratigraphy from Equatorial Pacific sediments (ODP Sites 1218 and 1219, Leg 199), L. Lanci, J. M. Pares, J.E.T. Channell and D.V. Kent. *Earth Planet. Sci. Letters*, 237, 617-634.

2006

IODP Expeditions 303 and 306 monitor Miocene-Quaternary climate in the North Atlantic. J.E.T. Channell, T. Sato, T. Kanamatsu, R. Stein, M. Malone, C. Alvarez-Zarikian and IODP Expedition 303/306 Scientists. *Scientific Drilling*, doi:10.2204/iodp.sd.1.01.2006, 4-10.

North Atlantic paleoceanography: The last five million years. R. Stein, T. Kanamatsu, C. Alvarez-Zarikian, S.M. Higgins, J.E.T. Channell and the IODP Expedition 306 scientists. *Eos*, 87 (13), 129-133.

Late Brunhes polarity excursions (Mono Lake, Laschamp, Iceland Basin and Pringle Falls) recorded at ODP Site 919 (Irminger Basin). J.E.T. Channell. *Earth Planet. Sci. Letters*, 244, 378-393.

A summary of Brunhes paleomagnetic field variability recorded in Ocean Drilling Program cores. S. Lund, J.S. Stoner, J.E.T. Channell and G. Acton. *Physics of the Earth and Planetary Interiors*, 156, 194-204.

Author of multiple chapters in: North Atlantic Climate, Expeditions 303 and 306 of the riserless drilling platform from St. John's, Newfoundland, to Ponta Delgada, Azores (Portugal), Sites U1302-U1308, 25 September-17 November 2004 and from Ponta Delgada, Azores (Portugal) to Dublin, Ireland, Sites U1312-U1315, 2 March-26 April 2005 J.E.T. Channell, T. Kanamatsu, T. Sato, R. Stein, C.A. Alvarez Zarikian, M.J. Malone, and the Expedition 303/306 Scientists. *Integrated Ocean Drilling Program Management International, Inc. for the Integrated Ocean Drilling Program*. Available at: http://iodp.tamu.edu/publications/exp303_306/30306title.htm

2007

Detailed paleomagnetic and rock magnetic variability within three high-resolution study intervals from Site 1233, S.P. Lund, J. Stoner, J. Channell, and F. Lamy, 2007. In: *Tiedemann, R., Mix, A.C., Richter, C., and Ruddiman, W.F. (Eds.), Proc. ODP, Sci. Results, 202: College Station, TX (Ocean Drilling Program), 1-30. doi:10.2973/odp.proc.sr.202.212.2007.*

Astronomical ages for Miocene polarity chrons C4Ar-C5r (9.3-11.2 Ma), and for three excursion chrons within C5n.2n. H.F. Evans, T. Westerhold, H. Paulsen and J.E.T. Channell, *Earth Planet. Sci. Letters*, 256, 455-465.

Paleomagnetism, deep-sea sediments. J.E.T. Channell. In: *Encyclopedia of Geomagnetism and Paleomagnetism*. D. Gubbins and E. Herrero-Bervera (eds.), 781-788, Springer, Dordrecht, Netherlands.

Geomagnetic excursions. C. Laj and J.E.T. Channell. In: *Treatise in Geophysics: Volume 5, Geomagnetism* (editor: M. Kono). Chapter 10, 373-416, Elsevier, Amsterdam.

Paleointensity-assisted chronostratigraphy of detrital layers on the Eirik Drift (North Atlantic) since marine isotope stage 11. H. F. Evans, J. E.T. Channell, J. S. Stoner, C. Hillaire-Marcel, J. D. Wright, Lauren C. Neitzke, G. S. Mountain. *Geochemistry, Geophysics and Geosystems (G3)*, 8(11), doi:10.1029/2007GC11720.

2008

Testing the relationship between timing of geomagnetic reversals/excursions and phase of orbital cycles using circular statistics and Monte carlo simulations. C. Xuan and J.E.T. Channell. *Earth Planet. Sci. Letters*, 268, 245-254.

Age calibrated relative paleointensity for the last 1.5 Myr from IODP Site U1308 (North Atlantic). J.E.T. Channell, D.A. Hodell, C. Xuan, A. Mazaud and J.S. Stoner. *Earth Planet. Sci. Letters*, 274, 59-71.

Origin of orbital periods in the sedimentary relative paleointensity records. C. Xuan and J.E.T. Channell. *Phys. Earth Planet. Inter.*, 169, 140-151.

Dating late Quarternary planktonic foraminifer *Neogloboquadrina pachyderma* from the Arctic Ocean by using amino acid racemization. D.S. Kaufman, L. Polyak, R. Adler, J.E.T. Channell and C. Xuan. *Paleoceanography*, doi:10.1029/2008PA001618.

Onset of "Hodson Strait" Heinrich Events in the eastern North Atlantic at the end of the Middle Pleistocene Transition (~640 ka)? D.A. Hodell, J.E.T. Channell, J.H. Curtis, O.E. Romero and U. Rohl. *Paleoceanography*, doi:10.1029/2008PA001519.

Rock magnetic study of Arctic deep-sea sediments. C. Xuan and J.E.T. Channell, *The IRM Quarterly*, 18(3), 3-4.

High-resolution paleomagnetic secular variation and relative paleointensity records from the western Canadian Arctic: implication for Holocene stratigraphy and geomagnetic field behaviour. F. Barletta, G. St-Onge, J.E.T. Channell, A. Rochon, L. Polyak, D.A. Darby. *Canadian J. Earth Sciences*, 45(11), 1265-1281.

2009

Upper and Lower Jaramillo polarity transitions recorded in IODP Expedition 303 North Atlantic sediments: implications for transitional field geometry, A. Mazaud, J.E.T. Channell, C. Xuan and J.S. Stoner. *Phys. Earth Planet. Inter.*, 172, 131-140.

Late Quaternary stratigraphy and sedimentation patterns in the western Arctic Ocean. L. Polyak, J. Bischof, J.D. Ortiz, D.A. Darby, J.E.T. Channell, C. Xuan, D.S. Kaufman, R. Lovlie, D.A. Schneider, D.D. Eberl, R.E. Adler and E.A. Council. *Global and Planetary Change*, 68, 5-17.

Sediment record from the western Arctic Ocean with an improved Late Quaternary age resolution: HOTRAX core HLY0503-8JPC, Mendeleev Ridge. R. E. Adler, L. Polyak, J. D. Ortiz, D. S. Kaufman, J. E.T. Channell, C. Xuan, A. G. Grottoli, E. Sellén, K. A. Crawford, *Global and Planetary Change*, 68, 18–29.

Self-reversal and apparent magnetic excursions in Arctic sediments. J.E.T. Channell and C. Xuan, *Earth Planet. Sci. Letters*, 284, 124-131.

Stacking paleointensity and oxygen isotope data for the last 1.5 Myr (PISO-1500). J.E.T. Channell, C. Xuan and D.A. Hodell. *Earth Planet. Sci. Letters*, 283, 14-23.

UPmag : MATLAB software for viewing and processing u-channel or other pass-through paleomagnetic data, C. Xuan and J.E.T. Channell. *Geochemistry, Geophysics and Geosystems (G3)*, 10, Q10Y07, doi :10.1029/2009GC002584.

Surface and deep water hydrography on Gardar Drift (Iceland Basin) during the last interglacial period. D.A. Hodell, E.K. Minth, J.H. Curtis, I.R. Hall, J.E.T. Channell and C. Xuan, *Earth Planet. Sci. Letters*, 288, 10-19.

Publications (2010-2019)

2010

Origin of apparent magnetic excursions in deep-sea sediments from Mendeleev-Alpha Ridge, Arctic Ocean, C. Xuan and J.E.T. Channell, *Geochemistry. Geophysics and Geosystems (G3)*, 11, Q02003, doi:10.1029/2009GC002879.

Expedition 303/306 Synthesis: North Atlantic Climate, J.E.T. Channell, T. Sato, T. Kanamatsu, R. Stein and C.A Alvarez Zarikian. *Proceedings of the Integrated Ocean Drilling Program. Vol. 303/306*, doi:10.2204/iodp.proc.303306.214.2010.

Magnetostratigraphy, nannofossil stratigraphy and apparent polar wander for Adria-Africa in the Jurassic-Cretaceous boundary interval. J.E.T. Channell, C.E. Casellato, G. Muttoni and E. Erba, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 293, 51-75.

Dating of Holocene western Canadian Arctic sediments by matching paleomagnetic secular variation to a geomagnetic field model. F. Barletta, G. St-Onge, J.E.T. Channell and A. Rochon. *Quaternary Science Reviews*, 29, 2315-2324.

Reconciling astrochronological and $^{40}\text{Ar}/^{39}\text{Ar}$ ages for the Matuyama-Brunhes boundary and late Matuyama Chron. J.E.T. Channell, D.A. Hodell, B.S. Singer and C. Xuan, *Geochemistry. Geophysics and Geosystems (G3)*, 11, Q0AA12, doi:10.1029/2010GC003203.

Phase relationships of North Atlantic ice rafted debris and surface-deep climate proxies during the last glacial period. D.A. Hodell, H.F. Evans, J.E.T. Channell, and J.H. Curtis, *Quaternary Science Reviews*, 29, 3875-3886.

2011

Chronology of the Lower-Middle Pleistocene succession of the south-western part of the Croton Basin (Calabria, southern Italy). L. Capraro, F. Massari, D. Rio, E. Fornaciari, J. Backman, J.E.T. Channell, P. Macri, G. Prosser and F. Speranza. *Quaternary Science Reviews*, 30, 1185-1200.

Chronostratigraphy and Geomagnetism. J.E.T. Channell, In: *Scientific Ocean Drilling Accomplishments and Challenges*, National Research Council of the National Academies. The National Academies Press, Washington D.C., 127-128.

2012

Paleomagnetism of Quaternary sediments from Lomonosov Ridge and Yermak Plateau: Implications for age models in the Arctic Ocean. C. Xuan , J. E.T. Channell, L. Polyak, D. A. Darby, *Quaternary Science Reviews*, 32, 48-63.

A 750-kyr detrital-layer stratigraphy for the North Atlantic (IODP Site U1302-U1303, Orphan Knoll, Labrador Sea). J.E.T. Channell, D.A. Hodell, O. Romero, C. Hillaire-Marcel, A. de Vernal, J.S. Stoner, A. Mazaud and U. Röhl, *Earth and Planetary Science Letters*, 317-318, 218-230.

Determining the natural length of the current interglacial, P.C. Tzedakis, J.E.T. Channell, D. A. Hodell, H. F. Kleiven and L. C. Skinner, *Nature Geoscience*, doi: 10.1038/NGEO1358.

ODP Site 1063 (Bermuda Rise) revisited: oxygen isotopes, excursions and paleointensity in the Brunhes Chron. J.E.T. Channell, D.A. Hodell and J.H. Curtis, *Geochem. Geophys. Geosyst.* (G3), 13(1), Q02001, doi:10.1029/2011GC003897, 27 pp.

Stratigraphie magnétique du million au millier d'années, C. Laj, J.E.T. Channell, C. Kissel, In : *Paleoclimatologie, Enquete sur les climats anciens. Tome 1 : Trouver, dater et interpréter les indices.* Editors, J-C. Duplessy and G. Ramstein. *Savoirs Actuels*, EDP Sciences/CNRS Editions, Paris, France.

M-sequence geomagnetic polarity time scale (MHTC12) that steadies global spreading rates and incorporates astrochronology constraints, A. Malinverno, J. Hildebrandt, M. Tominaga, and J. E. T. Channell, *J. Geophys. Res.*, 117, B06104, doi:10.1029/2012JB009260.

Oligocene-Miocene magnetostratigraphy of deep-sea sediments from the Equatorial Pacific (IODP Site U1333), E. P. Guidry, C. Richter, G. D. Acton, J.E.T. Channell, H.F. Evans, C. Ohneiser, Y. Yamamoto, and T. Yamazaki, *Geol. Soc. London, Special Publication 373*, doi:10.1144/SP373.7

A Cenozoic record of the equatorial Pacific carbonate compensation depth, H. Palike et al., *Nature* 488, 609-614, doi:10.1038/nature11360.

Relative paleointensity and environmental magnetism since 1.2 Ma at IODP Site U1305 (Eirik Drift, NW Atlantic). A. Mazaud, J.E.T. Channell and J.S. Stoner. *Earth Planet. Sci. Letters*, 357-358, 137-144.

A Laurentide outburst flooding event during the last interglacial Period, J.A.L. Nicholl, D. A. Hodell, B. D. A. Naafs, C. Hillaire-Marcel, J.E.T. Channell and O. E. Romero. *Nature Geoscience*, doi:10.1038/NGEO1622.

2013

Oligocene-Miocene magnetic stratigraphy carried by biogenic magnetite at Sites U1334 and U1335 (equatorial Pacific Ocean), J.E.T. Channell, C. Ohneiser, Y. Yamamoto, and M.S. Kesler, *Geochem. Geophys. Geosyst.* (G3), 14 (2), doi:10.1029/2012GC004429.

Synchronizing Holocene lacustrine and marine sediment records using paleomagnetic secular variation, S. Ólafsdóttir, Á. Geirsdóttir, G. H. Miller, J. S. Stoner and J.E.T. Channell, *Geology*, 41 (5), 535-538, doi10.1130/G33946.1.

Response of Iberian Margin sediments to orbital and suborbital forcing for the past 420 ka. D.A. Hodell, S. Crowhurst, L. Skinner, P. C. Tzedakis, V. Margari, J.ET. Channell, G. Kamenov, S. Maclachlan and G. Rothwell, *Paleoceanography*, 28, 185-199, doi:10.1002/paleo.20017, 2013.

Magnetic signatures of Heinrich-like detrital layers in the Quaternary of the North Atlantic, J.E.T. Channell and D.A. Hodell, *Earth Planet. Sci. Letters*, 369-370, 260-270.

Palaeoenvironmental records from the West Antarctic Peninsula drift sediments over the last 75 ka. M. Vautravers, D. Hodell, J.E.T. Channell, C-D. Hillenbrand, M. Hall, J. Smith and R.D. Larter, In: *Palaeoenvironments and Earth-Surface Processes*, M.J. Hambrey et al. (eds.), Geol. Soc. London, Special Publication, 381, <http://dx.doi.org/10.1144/SP381.12>.

Biogenic magnetite, detrital hematite, and relative paleointensity in sediments from the Southwest Iberian Margin, J.E.T. Channell, D.A. Hodell, V. Margari, L.C. Skinner, P.C. Tzedakis, and M.S. Kesler, *Earth Planet. Sci. Letters*, 376, 99-109.

A middle Miocene relative paleointensity record from the Pacific Equator, C. Ohneiser, G. Acton, J.E.T. Channell, G.S. Wilson, Y. Yamamoto and T. Yamazaki, *Earth Planet. Sci. Letters*, 374, 227 – 238.

The drift history of Adria and Africa from 280 Ma to Present, Jurassic true polar wander and zonal climate control on Tethyan sedimentary facies, G. Muttoni, E. Dallanave, and J.E.T. Channell, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 386, 415-435.

The influence of high latitude flux lobes on the Holocene paleomagnetic record of IODP Site U1305 and the northern North Atlantic. J.S. Stoner, J.E.T. Channell, A. Mazaud, S.E. Strano and C. Xuan. *Geochem. Geophys. Geosyst.*, 14 (10), doi: 10.1002/ggge.20272.

2014

Oligocene-Miocene relative (geomagnetic) paleointensity correlated from the equatorial Pacific (IODP Site U1334 and ODP Site 1218) to the South Atlantic (ODP Site 1090), J.E.T. Channell and L. Lanci, *Earth Planet. Sci. Letters*, 387, 77-88.

Age through tandem correlation of Quaternary relative paleointensity (RPI) and oxygen isotope data at IODP Site U1306 (Eirik Drift, SW Greenland). J.E.T. Channell, J.D. Wright, A. Mazaud, J.S. Stoner, *Quat. Sci. Revs.*, 88, 135-146.

Nongeocentric axial dipole field behavior during the Mono Lake excursion. R. M. Negrini, D. T. McCuan, W. S. Cassata, J. E. T. Channell, K. L. Verosub, J. R. Knott, R. S. Coe, J.C. Liddicoat, S. P. Lund, R.A. Horton, J. D. Lopez, L. V. Benson, A.M. Sarna-Wojcicki, *J. Geophys. Res.*, 119, doi:10.1002/2013JB010846.

Climate variability and ice-sheet dynamics during the last three glaciations. S.P. Obrochta, T.J. Crowley, J.E.T. Channell, D.A. Hodell, P.A. Baker, A. Seki and Y. Yokoyama, *Earth Planet. Sci. Lett.*, 406, 198-212.

Chronostratigraphy of the 600,000 year old continental record from Lake Van (Turkey). M. Stockhecke, O. Kwiecien, L. Vigliotti, F. S. Anselmetti, J. Beer, N. Çağatay, J. E. T. Channell, R. Kipfer, J. Lachner, T. Litt, N. Pickarski, and M. Sturm, *Quat. Sci. Revs.*, 104, 18-29.

Paleomagnetism of Lake Van sediments: chronology and paleoenvironment since 350 ka, L. Vigliotti, J.E.T. Channell and M. Stockhecke, *Quat. Sci. Revs.*, 104, 8-17.

North Atlantic paleoceanography from IODP expeditions (2003-2013). J.E.T. Channell and D.A. Hodell, In: R. Stein et al. (eds.), *Earth and Life processes Discovered from Subfloor Environments – A decade of science achieved by the Integrated Ocean Drilling Program (IODP). Developments in Marine Geology, Volume 7, Chapter 3.5, 359-393, Elsevier, Amsterdam, Netherlands.*

The Iceland Basin excursion: Age, duration, and excursion field geometry. J.E.T. Channell, *Geochem. Geophys. Geosyst.*, 15, doi:10.1002/2014GC005564.

2015

The paleomagnetic record at IODP Site U1307 back to 2.2 Ma (Eirik Drift, off South Greenland). A. Mazaud, J.E.T. Channell and J.S. Stoner, *Earth Planet. Sci. Letters*, 429, 82-89, 2015.

Magnetic unmixing of first-order reversal curve diagrams using principal component analysis. I. Lascu, R. J. Harrison, Y. Li, J. R. Muraszko, J. E. T. Channell, A. M. Piotrowski, and D. A. Hodell. *Geochem. Geophys. Geosyst.*, 16, doi:10.1002/2015GC005909.

Geomagnetic excursions. C. Laj and J.E.T. Channell. In: *Treatise on Geophysics: Volume 5, Geomagnetism* (editor: M. Kono). Chapter 10, 373-416, Elsevier, Amsterdam.

2016

Relative paleointensity (RPI) and oxygen isotope stratigraphy at IODP Site U1308: North Atlantic RPI stack for 1.2-2.2 Ma (NARPI-2200) and age of the Olduvai Subchron. J.E.T. Channell, D.A. Hodell and J.H. Curtis, *Quaternary Science Reviews*, 131, 1-19, 2016.

Quaternary paleomagnetic and oxygen isotope records from diatom-rich sediments of the southern Gardar Drift (IODP Site U1304, North Atlantic). C. Xuan, J.E.T. Channell and D.A. Hodell, *Quaternary Science Reviews*, 142, 74-89, 2016.

Magnetic record of deglaciation using FORC-PCA, sortable-silt grain size, and magnetic excursion at 26 ka, from the Rockall Trough (NE Atlantic), J.E.T. Channell, R. J. Harrison, I. Lascu, I. N. McCave, F. D. Hibbert, and W. E. N. Austin, *Geochem. Geophys. Geosyst.*, 17, 1823–1841, doi:10.1002/2016GC006300, 2016.

Eccentricity pacing of eastern equatorial Pacific carbonate dissolution cycles during the Miocene Climatic Optimum, K.G.D. Kochhann, A. Holbourn, W. Kuhnt, J. E. T. Channell, M. Lyle, J. K. Shackford, R. H. Wilkens, and N. Andersen, *Paleoceanography*, 31, doi:10.1002/2016PA002988, 2016.

Mode transitions in Northern Hemisphere glaciation: co-evolution of millennial and orbital variability in Quaternary climate. D.A. Hodell and J.E.T. Channell. *Clim. Past*, 12, 1-25, doi:10.5194/cp-12-1-2016, 2016.

2017

Mid-Brunhes magnetic excursions in marine isotope stages 9, 13, 14 and 15 (286, 495, 540 and 590 ka) at North Atlantic IODP Sites U1302/3, U1305 and U1306. J.E.T. Channell. *Geochem. Geophys. Geosyst.*, 18, doi:10.1002/2016GC006626, 2017.

Magnetic excursions in the late Matuyama Chron (Olduvai to Matuyama-Brunhes boundary) from North Atlantic IODP sites. J.E.T. Channell. *J. Geophys. Res. Solid Earth*, 122, doi:10.1002/2016JB013616, 2017.

Complexity in Matuyama-Brunhes polarity transitions from North Atlantic IODP/ODP deep-sea sites. J.E.T. Channell. *Earth Planet. Sci. Letters*, 467, 43-56, 2017.

Cobb Mountain Subchron recorded at IODP Site U1306 (Eirik Drift, off SE Greenland). J.E.T. Channell. *Geophys. J. Int.*, 209, 1389-1397, 2017.

Age and duration of Laschamp and Iceland Basin geomagnetic excursions in the South Atlantic Ocean. J.E.T. Channell, N. Vázquez Riveiros, J. Gottschalk, C. Waelbroeck, L.C. Skinner, *Quaternary Science Reviews*, 167, 1-13, 2017.

A 17,000 yr paleomagnetic secular variation record from the Alaskan margin: Regional and global correlations. M.H. Walczak, J.S. Stoner, A.C. Mix, J. Jaeger, G.P. Rosen, J.E.T. Channell, D. Heslop and C. Xuan. *Earth and Planet. Sci. Letters*, 473, 177, 189, 2017.

Comment on Mark et al. (2017): High-precision $^{40}\text{Ar}/^{39}\text{Ar}$ dating of Pleistocene tuffs and temporal anchoring of the Matuyama-Brunhes boundary. *Quaternary Geochronology*, 39, 1-23. J.E.T. Channell and D.A. Hodell, *Quaternary Geochronology*, 42, 56-59, 2017.

Late Miocene climate and time scale reconciliation: Accurate orbital calibration from a deep-sea perspective. A.J. Drury, T. Westerhold, T. Frederichs, J. Tian, R. Wilkens, J.E.T. Channell, H. Evans, C.M. John, M. Lyle and U. Rohl. *Earth and Planet. Sci. Letters*, 475, 254-266, 2017.

2018

An expanded Tethyan Kimmeridgian magneto-biostratigraphy from the S'Adde section (Sardinia): Implications for the Jurassic Timescale. G. Muttoni, A. Visconti, J.E.T. Channell, C.E. Casellato, M. Maron and F. Jadoul, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 503, 90-101.

Relative paleointensity (RPI) in the latest Pleistocene (10-45 ka) and implications for deglacial atmospheric radiocarbon. J.E.T. Channell, D.A. Hodell, S.J. Crowhurst, L.C. Skinner and R. Muscheler. *Quat. Sci. Revs.*, 191, 57-72.

2019

Southern Greenland glaciation and Western Boundary Undercurrent evolution recorded on Eirik Drift during the late Pliocene intensification of Northern Hemisphere glaciation. K. Blake-Mizen, R.G. Hatfield, J.S. Stoner, A.E. Carlson, C. Xuan, M. Walczak, K.T. Lawrence, J.E.T. Channell, I. Bailey. *Earth and Planet. Sci. Letters*, 209, 40-51.

Relative paleointensity (RPI) and age control in Quaternary sediment drifts off the Antarctic Peninsula. J.E.T. Channell, C. Xuan, D.A. Hodell, S.J. Crowhurst and R.D. Larter. *Quat. Sci. Revs.*, 211, 17-33.

The role of geomagnetic field intensity in late Quaternary evolution of humans and large mammals . J.E.T. Channell and L. Vigliotti, *Reviews of Geophysics*, 57, <https://doi.org/10.1029/2018RG000629>

Publications (2020-2025)

2020

Timing of Quaternary geomagnetic reversals and excursions in volcanic and sedimentary archives. J.E.T. Channell, B.S. Singer and B.R. Jicha. *Quat. Sci. Revs.*, 228, 106114.
<https://doi.org/10.1016/j.quascirev.2019.106114>

2021

Magnetostratigraphy: From a million to a thousand years. C. Laj, J.E.T. Channell and C. Kissel. In: Ramstein, C., Landais, A., Bouttes, N., Sepulchre, P., Govin, A. (eds.), *Frontiers in Earth Sciences*, Springer, Cham, 101-116. https://doi.org/10.1007/978-3-030-24982-3_7.

2022

Adria in Mediterranean paleogeography, the origin of the Ionian Sea, and Permo-Triassic configurations of Pangea. J.E.T. Channell, G. Muttoni and D.V. Kent. *Earth Sci. Reviews*, 230, 104045.

2023

No Late Cretaceous true polar wander oscillation and implications for stability of Earth relative to the rotation axis. R.D. Cottrell, R.K. Bono, J.E.T. Channell, H.-P. Bunge and J.A. Tarduno. *Earth Planet. Sci. Letters*, 620, 118338.

2024

High-resolution u-channel paleomagnetic secular variation and magnetic field excursions from Ocean Drilling Program Site 1233 (MIS 1-4; 0-71 ka). S. P. Lund, J. S. Stoner, and J. E. T. Channell. *Phys. Earth Planet. Inter.*, 351, 107197.

2025

Kaboth-Bahr, S., Bahr, A., Blaser, P., Voelker, A.H.L., Lippold, J., Gutjahr, M., Hodell, D.A., Channell, J.E.T., de Vernal, A., Hillaire-Marcel, C., Reconstruction of deep-water undercurrent variability from the outer Labrador Sea during the past 550,000 years, Quaternary Science Advances. <https://doi.org/10.1016/j.qsa.2025.100266>