

Robert Mark ELLAM

Curriculum Vitae

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Date of Birth: 15th April 1962

Nationality: British

Status: Married with 2 children (13 and 18)

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Isotope Geosciences Unit
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UNDERGRADUATE DEGREE

1980-1983 **Department of Geology, Imperial College, London** B.Sc. (Geology)
Associateship of the Royal School of Mines
Sir Henry Miers Prize (University of London Mineralogy Prize)

POSTGRADUATE DEGREE

1983-1986 **Department of Earth Sciences, The Open University** Ph.D. (Geochemistry)
"The Transition from Calc-alkaline to Potassic Magmatism in the Aeolian Islands, Southern Italy."
(Supervisors, C. J. Hawkesworth FRS & M. A. Menzies)

RESEARCH CAREER

1987-1989 **Department of Earth Sciences, Oxford University**
Post-doctoral research assistantship (with K.G. Cox FRS)
NERC grant GR3/6376 "Petrogenetic studies of Karoo picrite basalts"

1989-1990 **Department of Earth Sciences, The Open University**
NERC Personal Research Fellowship "Archaean crust generation and evolution"

1990 - 1997 **Scottish Universities Research and Reactor Centre**
Lecturer in Isotope Geology

1997-2000 **Scottish Universities Environmental Research Centre**
Lecturer in Isotope Geology and Head of Isotope Geosciences Unit

2000 – 2006 **Scottish Universities Environmental Research Centre**
Reader in Isotope Geosciences and Head of Isotope Geosciences Unit

2007 – Date **Scottish Universities Environmental Research Centre**
Professor of Isotope Geochemistry

OTHER POSTS, POSITIONS AND PROFESSIONAL AFFILIATIONS

External Appointments

Visiting Lecturer, Oxford University (1990).
Visiting Scientist, Department of Terrestrial Magnetism, Carnegie Institution of Washington (1991).
Honorary Lecturer, Department of Geography and Geology, University of St. Andrews.
External higher degree supervisor, Open University (1990-4), Queen's University of Belfast (1992-7)
Council Member, Geological Society of Glasgow (1991-4).
External higher degree examiner, University of London (1991, 2004), Open University (1995, 2002)
Visiting Lecturer, The Queen's University of Belfast (1993-4).
American Geophysical Union Member (1990-2008).
Copernicus Visiting Scientist, University of Ferrara (2008).

Editorial Appointments

Editor - Scottish Journal of Geology (2002-2008).
Associate Editor - European Journal of Mineralogy (2006-2008)

Recent Invited Lectures

Invited Lecturer, Trinity College, Dublin (2004).
'World Series' Lecturer, University of St. Andrews (2004).
Invited Speaker American Society of Mass Spectrometry, Sanibel Meeting, Sanibel Island, Florida, USA 2004.
Invited Keynote Opening Lecture – 40th Anniversary Meeting – Volcanic & Magmatic Studies Group of the Geological & Mineralogical Societies – 2006 – “40 years on – new results from old haunts”.

Research Council Committees

Member of NERC Peer Review College 2004-2007.
NERC Moderating Panel – Industrial CASE Studentship Awards 2005.
NERC Moderating Panel B – Consortium Grants, 2005.
NERC Moderating Panel – Review of Masters Courses 2005.
NERC Moderating Panel – Industrial CASE Studentship Awards 2006.
NERC Moderating Panel – New Investigators' Grant 2006 Round.
NERC Moderating Panel D – July 1st 2006- Standard Grant Round.
Chair – NERC Fellowship Sift and Interview Panel 4 2006 Round.
NERC Ion Microprobe Steering Committee – co-opted for May 2007 meeting

RESEARCH GRANTS

Radiogenic isotope measurements by thermal ionization mass spectrometry for geochronological and geochemical research. NERC, £199,900 1991-1996. (Ellam, Fallick & Rogers)

Constraining the asthenospheric input to Karoo magmatism: a Re-Os isotope study of Karoo picrites. NERC, GR9/472 £2,970, 1991-1992. (Ellam)

The origin and location of HIMU mantle. Nuffield Foundation, SCI/180/1437/G £1,700, 1991-1994. (Ellam)

Petrogenesis of continental basalts, melting processes in the sub-continental mantle and the origin of subduction-related magmatism: new constraints from Re-Os isotopes. NERC GR3/8411 £167,801, 1992-1995. (Ellam)

Palaeoproductivity of the NE Atlantic during the last glacial-interglacial cycle: water mass and palaeoproductivity studies using U-series disequilibrium and bulk sediment geochemistry. NERC NEAPACC Special Topic £91,500, 1993-1995. (Shimmiel & Ellam)

Application of Re-Os isotopes to basalt petrogenesis and continental lithosphere evolution - enhanced analytical sensitivity. NERC GR9/1147 £10,760, 1993-1995. (Ellam)

The earth's crust in the Kola Peninsula. INTAS-93-0007 ECU 48,900, 1994. (Gillen, Treloar & Ellam)

Tectonic evolution, deep structure and metallogeny of the Kola Peninsula, Arctic Russia. INTAS-93-754 ECU 32,000, 1994 (Gillen, Treloar, Ellam & Daly)

Petrogenesis of continental basalts, melting processes in the sub-continental mantle and the origin of subduction-related magmatism: new constraints from Re-Os isotopes. NERC GR3/8411 extension £43,412 1995-1996. (Ellam)

Timing sea level changes. Royal Society G503/18432 £10,000 1997. (Ellam & Stuart).

Ancient mantle plumes: constraints on mantle convection and lower mantle fluxes. NERC GR9/03128 £25,483, 1997-1998. (Ellam & Stuart).

Mediterranean palaeogeography and Atlantic connectivity preceding the Messinian Salinity Crisis. NERC GR9/03541 £25,641, 1998-2000. (Ellam, McClelland & Flecker).

Decadal climate variability and the El Niño Southern Oscillation: high resolution records of ocean atmosphere interactions from corals in the central South Pacific. NERC GR3/12021 £196,900, 1999-2002. (Tudhope, Shimmield & Ellam).

Does the Iceland plume really pulse? NERC GR3/12769 £124,368, 2000-2001. (Fitton & Ellam).

Collaborative multi-collector ICP-MS facility for the Earth and Environmental sciences in Scotland. NERC GR3/JREI/168 SHEFC Project 119 £444,000 2001. (Ellam et al.).

Isotope fractionation of metal(loid)s through biovolatilization. EPSRC GR/R04652/01 £116,839 2001-2003. (Feldmann, Paton & Ellam)

Improving our ability to predict rapid changes in the El Niño Southern Oscillation climatic phenomenon. NERC NER/T/S/2002/00982 £320,644 2003-2006. (Tudhope, Collins, Shimmield, Ellam)

Transport, uptake and behaviour of depleted uranium in the environment. NERC NE/C513134/1 £153,224. (MacKenzie, Ellam, Graham, Farmer) 2005-2008.

The North Atlantic ice-climate system: reconstructing the provenance and phasing of ice rafting events using palaeointensity assisted chronologies. NERC (IODP) NE/C517117/1 £10,620. (Austin & Ellam) 2005.

Constraining the origin of high $^3\text{He}/^4\text{He}$ mantle: hypothesis testing using a multi-isotope approach. NERC NE/E015069 £316,664, (Ellam & Stuart) 2007-2010

RESEARCH PUBLICATIONS

R. M. Ellam & C. J. Hawkesworth, Elemental and isotopic variations in subduction-related basalts: evidence for a three component model, *Contrib. Mineral. Petrol.* 98, 72-80, 1988.

R. M. Ellam & C. J. Hawkesworth, Is average continental crust generated at subduction zones?, *Geology* 16, 314-317, 1988.

R. M. Ellam, M.A. Menzies, C.J. Hawkesworth, W.P. Leeman, M. Rosi & G. Serri, The transition from calc-alkaline to potassic orogenic magmatism in the Aeolian Islands, southern Italy, *Bull. Volcanol.* 50, 386-398, 1988.

R. M. Ellam & N.W. Rogers Comment on "Mantle mixing and crustal contamination as the origin of the high-Sr radiogenic magmatism of Stromboli (Aeolian arc)" by B. Luais, *Earth Planet. Sci. Lett.* 91, 239-243, 1988.

C. J. Hawkesworth & **R. M. Ellam**, Chemical fluxes and wedge replenishment rates along recent destructive plate margins, *Geology* 17, 46-49, 1989.

R. M. Ellam & K. G. Cox, A Proterozoic lithospheric source for Karoo magmatism: evidence from the Nuanetsi picrites, *Earth Planet. Sci. Lett.* 92, 207-218, 1989.

R. M. Ellam, C.J. Hawkesworth, M.A. Menzies & N.W. Rogers, The volcanism of southern Italy: role of subduction and the relationship between potassic and sodic alkaline magmatism, *J. Geophys. Res.* 94 (B4), 4589-4601, 1989.

R. M. Ellam, C.J. Hawkesworth & F. McDermott, Pb isotope data from late Proterozoic subduction-related rocks: implications for crust-mantle evolution, *Chem. Geol.* 83, 165-181, 1990.

C. J. Hawkesworth, P.D. Kempton, N.W. Rogers, **R.M. Ellam** & P.W. van Calsteren, Continental mantle lithosphere and shallow level enrichment processes in the Earth's mantle, *Earth Planet Sci. Lett.* 96, 256-268, 1990.

R. M. Ellam & R.S. Harmon, Oxygen isotope constraints on the crustal contribution to the subduction-related magmatism of the Aeolian Islands, S. Italy, *J. Volcanol. Geotherm. Res.* 44 105-122, 1990.

R. M. Ellam & K.G. Cox, An interpretation of Karoo continental flood basalts in terms of interaction between asthenospheric magmas and the mantle-lithosphere, *Earth Planet. Sci. Lett.* 105, 330-342, 1991.

C. J. Hawkesworth, J.M. Hergt, **R.M. Ellam** & F. McDermott, Element fluxes associated with subduction related magmatism, *Phil. Trans. R. Soc. Lond. Ser. A* 335, 393-405, 1991.

C. J. Hawkesworth, J.M. Hergt, F. McDermott & **R.M. Ellam**, Destructive margin magmatism and the contributions from the mantle wedge and subducted crust, *Aust. J. Earth Sci.* 38, 577-594, 1991.

- R. M. Ellam**, Lithospheric thickness as a control on basalt geochemistry, *Geology* 20, 153-156, 1992.
- R. M. Ellam**, R.W. Carlson & S.B. Shirey. Evidence from Re-Os isotopes for plume-lithosphere mixing in Karoo flood basalt genesis, *Nature* 359, 718-721, 1992.
- B. Giannetti & **R. M. Ellam** The primitive lavas of Roccamonfina volcano, Roman region, Italy: new constraints on melting processes and source mineralogy, *Contrib. Mineral. Petrol.* 116, 32-46, 1994.
- J. M. Wallace, **R. M. Ellam**, I. G. Meighan, P. Lyle & N. W. Rogers Sr isotope data for the Tertiary lavas of N. Ireland: evidence for open system petrogenesis, *J. Geol. Soc. Lond.* 151, 869-877, 1994.
- V. Olive, **R. M. Ellam** & B. Harte A Re-Os isotope study of ultramafic xenoliths from the Matsoku kimberlite. *Earth Planet. Sci. Lett.* 150, 129-140, 1997.
- B. S. Hardarson, J. G. Fitton, **R. M. Ellam** & M. S. Pringle Ridge relocation - a geochemical and geochronological investigation of a palaeo-rift in NW Iceland. *Earth Planet. Sci. Lett.* 153, 181-196, 1997.
- J.G. Fitton, B.S. Hardarson, **R.M. Ellam** & G. Rogers Sr-, Nd-, and Pb- isotopic composition of volcanic rocks from the southeast Greenland margin at 63°N: temporal variation in crustal contamination during continental break-up. In: A.D. Saunders *et al.* *Proc. ODP, Sci. Results* 152, 351-358, 1998.
- A. Renzulli, B.G.J. Upton, A. Boyce & **R.M. Ellam** Petrology of quartz and hauyne syenite clasts from the Pitigliano Formation (Latera caldera, Vulcini District, Central Italy). *European J. Mineral.* 10, 333-354, 1998.
- B. Marty, B.G.J. Upton, & **R.M. Ellam** Helium isotopes in early Tertiary basalts, northeast Greenland: evidence for 58 Ma plume activity in the North Atlantic-Iceland volcanic province. *Geology* 26, 407-410, 1998.
- F.E. Grousset, M. Parra, A. Bory, P. Martinez, P. Bertrand, G. Shimmiel & **R.M. Ellam** Saharan wind regimes traced by the Sr-Nd isotopic composition of the subtropical Atlantic sediments: last glacial maximum vs. today. *Quaternary Science Reviews* 17, 395-409, 1998.
- R.M. Ellam**, B.J.G. Upton & J.G. Fitton Petrogenesis of late stage magmatism at Hold with Hope, East Greenland. *Contrib. Mineral. Petrol.* 133, 51-59, 1998.
- R. Flecker, **R.M. Ellam**, C. Müller, A. Poisson, A.H.F. Robertson & J. Turner Application of Sr isotope stratigraphy and sedimentary analysis to the origin and evolution of the Neogene basins in the Isparta Angle, southern Turkey. *Tectonophys.* 298, 83-101, 1998.
- F.M. Stuart, **R.M. Ellam** & R. Duckworth Pb isotopes in the Middle Valley massive sulphide deposit, northern Juan de Fuca Ridge. *Chem. Geol.* 153, 213-225, 1999.
- R. Flecker & **R.M. Ellam** Distinguishing climatic and tectonic signals in the sedimentary successions of marginal basins using Sr isotopes: an example from the Messinian salinity crisis, Eastern Mediterranean. *J. Geol. Soc. Lond.*, 156, 847-854, 1999.
- C. Mitchell, **R.M. Ellam** & K.G. Cox Mesozoic dolerite dykes of the Falkland Islands: petrology, petrogenesis and implications for geochemical provinciality in Gondwanaland low-Ti basaltic rocks. *J. Geol. Soc. Lond.*, 156, 901-916, 1999.
- P. Alfonso, C. Canet, J.C. Melgarejo, A. Fallick & **R. Ellam** Isotope study of the Carboniferous sediment-hosted sulphide deposits from the Southern Catalonian Coastal Ranges, Spain. In: C.J. Stanley *et al.* (Eds.) *Mineral deposits: processes to processing*. Balkema, Rotterdam, p. 805-808, 1999.
- C.E. Everett, D.M. Rye, J.J. Wilkinson, A.J. Boyce, **R.M. Ellam**, A.E. Fallick & S.A. Gleeson The genesis of Irish-type Zn-Pb deposits: characterisation and origin of the principal ore fluid. In: C.J. Stanley *et al.* (Eds.) *Mineral deposits: processes to processing*. Balkema, Rotterdam, p. 845-848, 1999.
- K.M. Goodenough, B.G.J. Upton & **R. M. Ellam** Geochemical evolution of the Ivigtut granite, South Greenland: a fluorine-rich "A-type" intrusion. *Lithos*, 51, 205-221, 2000.
- F.M. Stuart, **R.M. Ellam**, P.J. Harrop, J.G. Fitton & B.R. Bell Constraints on mantle plumes from the helium isotopic composition of basalts from the British Tertiary igneous province. *Earth Planet. Sci. Lett.* 177, 273-285, 2000.
- R.M. Ellam** & F.M. Stuart Isotope geochemistry of the North Atlantic Igneous Province: a Tertiary to Recent record of a mantle plume. *J. Petrol.* 141, 919-932, 2000.
- S. Steinthorsson, B.S. Hardarson, **R.M. Ellam** & G. Larsen Petrochemistry of the Gjalp-1996 subglacial eruption, Vatnajökull, SE Iceland. *J. Volcanol. Geotherm Res.* 98, 79-90, 2000.
- J. Parnell, G. Earls, J.J. Wilkinson, D.H.W. Hutton, A.J. Boyce, A.E. Fallick, **R.M. Ellam**, S.A. Gleeson, N.R. Moles, P.F. Carey & I. Legg Regional fluid flow and gold mineralization in the Dalradian of the Sperrin Mountains, Northern Ireland. *Econ. Geol.* 95, 1389-1416, 2000.

- A.W. Tudhope, C.P. Chilcott, M.T. McCulloch, E.R. Cook, J. Chappell, **R.M. Ellam**, D.W. Lea, J.M. Lough & G.B. Shimmield. Variability in the El Niño Southern Oscillation through a glacial-interglacial cycle. *Science* 291, 1511-1516, 2001.
- G.R.T. Jenkin, **R.M. Ellam**, G. Rogers, F.M. Stuart, R. Hinton & P.Hill. An investigation of closure temperature of the biotite Rb-Sr system: the importance of cation exchange. *Geochim. Cosmochim. Acta* 65, 1141-1160, 2001.
- A.E. Fallick, J.H. Ashton, A.J. Boyce, **R.M. Ellam** & M.J. Russell. Bacteria were responsible for the magnitude of the world-class hydrothermal base-metal orebody at Navan, Ireland. *Econ. Geol.* 96, 885-890, 2001.
- V. Olive, **R.M. Ellam** & L. Wilson. A protocol for the determination of the Rare Earth Elements at picomole level: results on geostandards PCC-I and DTS-I. *Geostandards Newsletter: the Journal of Geostandards and Geoanalysis*. 25, 219-228, 2001.
- R. Flecker, S. de Villiers & **R.M. Ellam**. Modelling the effect of evaporation on the salinity and $^{87}\text{Sr}/^{86}\text{Sr}$ relationship in ancient and modern marginal-marine systems: the Messinian Salinity Crisis in the Mediterranean. *Earth Planet. Sci. Lett.* 203, 221-233, 2002.
- K.M. Goodenough, B.G.J. Upton & **R.M. Ellam**. Long-term memory of subduction processes in the lithospheric mantle? Evidence from the geochemistry of basic dykes in the Gardar Province of South Greenland. *J. Geol. Soc. Lond.* 159, 705-714, 2002.
- A.A. Meharg, D.J. Pain, **R.M. Ellam**, R. Baos, V. Olive, A. Joyson, N. Powell, A.J. Green & F. Hiraldo. Isotopic identification of the sources of lead contamination for white storks (*Ciconia ciconia*) in a marshland ecosystem (Doñana, S.W. Spain). *Science of the Total Environment* 300, 81-86, 2002.
- R. Swennen, H. Ferket, L. Benchilla, F. Roure, **R. Ellam** and SUBTRAP-team. Carbonate diagenesis in Foreland Fold and Thrust Belts: Examples from the SUBTRAP Consortium Project. *Geologica Belgica International Meeting, Aardk. Mededel.* 189-190, 2002.
- C.E. Everett, D.M. Rye & **R.M. Ellam**. Source or sink? An assessment of the role of the Old Red Sandstone in the genesis of the Irish Zn-Pb orefield. *Econ. Geol.* 98, 31-50, 2003.
- R. Swennen, H. Ferket, L. Benchilla, F. Roure, **R. Ellam** and SUBTRAP-team. Fluid flow and diagenesis in carbonate dominated Foreland Fold and Thrust Belts: petrographic inferences from field studies of late-diagenetic fabrics from Albania, Belgium, Canada, Mexico and Pakistan. *J. Geochem. Explor.*, 78-79, 481-485, 2003.
- R. Swennen, V. Vandeginste, & **R. Ellam**. Genesis of zebra dolomites (Cathedral Formation: Canadian Cordillera Fold and Thrust Belt, British Columbia). *J. Geochem. Explor.*, 78-79, 571-577, 2003.
- T.D.B. Lyon, **R. Ellam** and C. Ramsay. An Old Problem of Lead Contamination. In: *Plasma Source Mass Spectrometry: Applications and Emerging Technologies*, eds. J.G. Holland and S.D. Tanner, The Royal Society of Chemistry, Cambridge, 2003, 141-147, 2003.
- S. Wehmeier, **R. Ellam** & J. Feldmann. Calculation methods for the determination of isotope ratios of transient signals of volatile organometallic compounds. In: *Plasma Source Mass Spectrometry: Applications and Emerging Technologies*, eds. J.G. Holland and S.D. Tanner, The Royal Society of Chemistry, Cambridge, 231-239, 2003.
- R.M. Ellam** & A.W. Tudhope. Uranium and thorium isotope ratio measurements using multiple collector inductively coupled plasma mass spectrometry with multi-ion-counting detectors. In: *Plasma Source Mass Spectrometry: Applications and Emerging Technologies*, eds. J.G. Holland and S.D. Tanner, The Royal Society of Chemistry, Cambridge, 391-403, 2003.
- F.M. Stuart, S. Lass-Evans, J.G. Fitton & **R.M. Ellam**. Extremely high He isotope ratios in MORB-source mantle from the proto-Iceland plume. *Nature*, 424, 57-59, 2003.
- J. M. Ugidos, M. I. Valladares, P. Barba, & **R. M. Ellam**. The Upper Neoproterozoic-Lower Cambrian of the Central Iberian Zone, Spain: Chemical and isotopic (Sm-Nd) evidence that the sedimentary succession records an inverted stratigraphy of its source. *Geochim. Cosmochim. Acta* 67, 2615-2629, 2003.
- S. Wehmeier, **R. Ellam** & J. Feldmann. Isotope ratio determination of antimony from the transient signal of trimethylstibine by GC-MC-ICP-MS and GC-ICP-TOF-MS. *J. Anal. At. Spectrom.*, 18, 1001-1007, 2003.
- C.W. Thomas, C.M. Graham, **R.M. Ellam** & A.E. Fallick. $^{87}\text{Sr}/^{86}\text{Sr}$ chemostratigraphy of Neoproterozoic Dalradian limestones of Scotland and Ireland: constraints on depositional ages and time scales. *J. Geol. Soc. Lond.* 161, 229-242, 2004.
- M. Wilkinson, R.S. Haszeldine, **R.M. Ellam** & A.E. Fallick. Hydrocarbon filling history from diagenetic history: Brent Group, UK North Sea. *Marine and Petroleum Geology* 21, 443-455, 2004.
- F.H. Nader, R. Swennen & **R. Ellam**. Reflux stratabound dolostone and hydrothermal volcanism-associated dolostone: a two-stage dolomitization model (Jurassic, Lebanon). *Sedimentology* 52, 339-360, 2004.

- M. Martelli, P.M. Nuccio, F.M. Stuart, R. Burgess, **R.M. Ellam** & F. Italiano Helium-strontium constraints on mantle evolution beneath the Roman comagmatic province, Italy. *Earth Planet. Sci. Lett.* 224, 295-308, 2004.
- R.M. Ellam** & F.M. Stuart Coherent He-Nd-Sr isotope trends in high $^3\text{He}/^4\text{He}$ basalts: implications for a common reservoir, mantle heterogeneity and convection. *Earth Planet. Sci. Lett.* 228, 511-523 2004.
- S. de Villiers, J.A.D. Dickson & **R.M. Ellam** The composition of ancient continental river weathering fluxes deduced from the Mg isotopic composition of seawater. *Chem. Geol.* 216, 133-142, 2005.
- V. Vandeginste, R. Swennan, S.A. Gleeson, **R.M. Ellam**, K. Osadetz & F. Roure Zebra dolomitization as a result of focused fluid flow in the Rocky Mountains Fold and Thrust Belt, Canada. *Sedimentology* 52, 1067-1095 2005.
- N. Allison, A.A. Finch, A.W. Tudhope, M. Newville, S.R. Sutton & **R.M. Ellam**, Reconstruction of deglacial sea surface temperatures in the tropical Pacific from selective analysis of a fossil coral. *Geophysical Research Letters* 32 doi: 10.1029/2005GRL023183, 2005.
- V.R. Troll, J.P. Chadwick, **R.M. Ellam**, S. McDonnell, C.H. Emeleus & I.G. Meighan Sr and Nd isotope evidence for successive crustal contamination of Slieve Gullion ring-dyke magmas, Co. Armagh, Ireland. *Geol. Mag.* 142, 659-668, 2005.
- F.H. Nader, R. Swennan & **R.M. Ellam** Petrographic and geochemical study of Jurassic dolostones from Lebanon: evidence for superimposed diagenetic events. *J. Geochem. Expl.* 89, 288-292, 2006.
- V. Vandeginste, R. Swennan, S.A. Gleeson, **R.M. Ellam**, K. Osadetz & F. Roure, Development of secondary porosity in the Fairholme carbonate complex (southwest Alberta, Canada). *J. Geochem. Expl.* 89, 394-397, 2006.
- R.M. Ellam**, New constraints on the petrogenesis of the Nuanetsi picrite basalts from Pb and Hf isotope data. *Earth Planet. Sci. Lett.* 245, 153-161, 2006.
- M.N. Çağatay, N Görür, R. Flecker, M. Sakiç, C. Tünoğlu, **R. Ellam**, W. Krijgsman, S. Vincent & A. Dikbaş Paratethyan-Mediterranean connectivity in the Sea of Marmara region (NW Turkey) during the Messinian. *Sedimentary Geology* 188-189, 171-187, 2006.
- R. Flecker & **R.M. Ellam** Identifying Late Miocene episodes of connection and isolation in the Mediterranean-Paratethyan realm using Sr isotopes. *Sedimentary Geology* 188-189, 189-203, 2006.
- M. I. Valladares, J. M. Ugidos, P. Barba, A.E. Fallick, & **R.M. Ellam**, Oxygen, carbon and strontium isotope records of Ediacaran carbonates in Central Iberia (Spain). *Precambrian Research* 147, 354-365, 2006.
- L. Shumlyanskyy, **R. M. Ellam**, & O. Mitrokhin. The origin of basic rocks of the Korosten AMCG complex, Ukrainian shield: implication of Nd and Sr isotope data. *Lithos* 90, 214-222, 2006.
- R.M. Ellam** & K. Keefe MC-ICP-MS analysis of non-natural U isotope ratios using a $^{229}\text{Th}/^{232}\text{Th}$ external mass bias correction. *J. Anal. At. Spectrom.*, 22, 147 - 152, 2007 doi:10.1039/b612231k.
- R.E. Jones, V. Kilikoglou, V. Olive, Y. Bassiakos, **R. Ellam**, I.S.J. Bray, D.C.W. Sanderson, A new protocol for the chemical characterisation of steatite – two case studies in Europe; the Shetland islands and Crete. *Journal of Archaeological Science* 34, 626-641, 2007 doi:10.1016/j.jas.2007.07.02.
- C. Schnabel, V. Olive, M. Atarashi-Andoh, A. Dougans, **R. M. Ellam**, S. Freeman, C. Maden, M. Stocker, H-A Synal, L. Wacker & S. Xu, $^{129}\text{I}/^{127}\text{I}$ ratios in Scottish sea water: geographical and temporal responses to changing emissions. *Applied Geochemistry* 22, 619-627, 2007 doi:10.1016/j.apgeochem.2006.12.007.
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- L. Beccaluva, A. Azzouni-Sekkal, A. Benhallou, G. Bianchini, **R.M. Ellam**, M. Marzola, F. Siena & F. Stuart, Intracratonic asthenospheric upwelling and lithosphere rejuvenation beneath the Hoggar swell (Algeria): evidence from HIMU metasomatised lherzolite mantle xenoliths. *Earth Planet. Sci. Lett.* 260, 482-494, 2007 doi: 10.1016/j.epsl.2007.05.047.
- F.H. Nader, R. Swennan & **R.M. Ellam**, Field geometry, petrography and geochemistry of a dolomitization front (Late Jurassic, central Lebanon). *Sedimentology* doi: 10.1111/j.1365-3091.2007.00874.x 2007
- I.W. Oliver, M.C. Graham, A B. MacKenzie, **R.M. Ellam** & J.G. Farmer, Assessing depleted uranium (DU) contamination of soil, plants and earthworms at UK weapons testing sites. *J. Environ. Monit.*, 9, 740-748, 2007 doi:10.1039/b700719a.

S.J. Boulton, A.H.F. Robertson, **R.M. Ellam**, U. Safak & U. Unlugenc. Strontium isotopes and micropalaeontological dating used to redefine the stratigraphy of the Neotectonic Hatay Graben, Southern Turkey. *Turkish Journal of Earth Sciences*, 16, 141-179, 2007.

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