

**University of Leeds - School of Earth and Environment**

**AGU Fall Meeting December 2016**

**Monday 12th December 2016**

**Talks**

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| Alan Gadian | A11O-05: Changes in Convective Rainfall in future climates over Western Europe. | 09:00 – 09:15 | *Moscone West* | *3008* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/154756>  |
| Thomas Richardson | GC13H-01: Drivers of precipitation change: An energetic understanding | 13:40 – 13:55 | *Moscone West* | *3003* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/177299>  |
| Amicia Lisbeth Lee | T13E-02: Migmatites to mylonites – Crustal deformation mechanisms in the Western Gneiss Region, Norway | 13:55 - 14:10 | *Moscone South* | *306* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/124777>  |
| Rachel Tilling | C13E-05: A comparison of four estimates of Arctic sea ice thickness and volume | 14:40 – 14:55 | *Moscone West* | *3007* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/185833>  |
| Hannes Konrad | C14A-02: Uneven onset and pace of ice drawdown from the glaciers in the Amundsen Sea Sector, West Antarctica | 16:15 – 16:30 | *Moscone West* | *3007* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/146838>  |
| Sebastian Rost  | DI14A-08: Using the heterogeneity distribution in Earth's mantle to study structure and flow (Invited) | 17:45 - 18:00 | *Moscone South* | *303* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/121890>  |

**Leeds Convened Session**

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| Andrew Walker & Andy Nowacki | DI11B: The Dynamics and Evolution of the Interacting Core and Mantle: Insights from Paleomagnetic Data, Simulations, and Experiments I | 08:00 - 10:00 | *Moscone South* | 303 | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Session/16752>  |
| Andrew Shepherd | Altimetry of the Polar Regions I Posters | 08:00 - 12:20 | *Moscone South* | Poster Hall | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Session/12908>  |
| Dominick Spracklen | A11D: Impacts of Land Cover, Land Use, and Agricultural Changes on Atmospheric Composition and Climate Posters | 08:00 - 12:20 | *Moscone South* | Poster Hall | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Session/13019>  |
| Andrew Walker & Andy Nowacki | DI13A: The Dynamics and Evolution of the Interacting Core and Mantle: Insights from Paleomagnetic Data, Simulations, and Experiments II Posters | 13:40 - 18:00 | *Moscone South* | Poster Hall | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Session/15904>  |
| Andrew Shepherd | Altimetry of the Polar Regions II | 13:40 - 15:40 | *Moscone West* | 3007 | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Session/17522>  |
| Andrew Shepherd | Altimetry of the Polar Regions III | 16:00 - 18:00 | *Moscone West* | 3007 | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Session/17527>  |

**Posters**

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| Christopher J Smith | A11I-0120: Evaluation of Rapid Adjustments to Radiative Forcing for Five Climate Forcing Agents in the Precipitation Driver Response Model Intercomparison Project (PDRMIP) | 08:00 – 12:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/192837>  |
| Piers Forster | A11I-0122: Recommendations for diagnosing effective radiative forcing from climate models for CMIP6 (Invited) | 08:00 – 12:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/121717>  |
| [Thomas Mueller](https://agu.confex.com/agu/fm16/meetingapp.cgi/Person/84076) | PP11B-2012: Kinetically Controlled Alteration of the Chemical Record During Diagenesis: An Experimental Study on Hydrothermal Carbonate Replacement | 08:00 – 12:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/156805>  |
| Mal McMillan | SPICE: Sentinel-3 Performance Improvement for Ice Sheets | 08:00 – 12:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/161088>  |
| [Ben Todd](https://agu.confex.com/agu/fm16/meetingapp.cgi/Person/227177) | MR13A-2388: Using Molecular Dynamics to Calculate the Lattice Thermal Conductivity of Lower Mantle Minerals with Impurities | 13:40 – 18:00 | *Moscone South* | Poster Hall | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/141254>  |

**Tuesday 13th December 2016**

**Talks**

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| Andrew J Hooper | G21C-08: Sentinel-1 burst overlap InSAR: north-south sensitivity at last? | 09:45 - 10:00 | *Moscone West* | *3002* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/198861>  |
| Andrew Walker  | DI22A-03: Deformation of phase D and Earth's deep water cycle | 10:50 – 11:05 | *Moscone South* | 303 | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/155902>  |
| Tim Wright | InSAR observations of focused interseismic strain along the entire North Anatolian Fault: implications for seismic hazard assessment and the rheology of the lower crust | 11:05 – 11:20 | *Moscone South* | 103 | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/171950>  |
| Benjamin Mills  | PP22B-06: Carbon Sources and Sinks Over the Last 750 Million Years and Relationships to Greenhouse and Icehouse Climates (Invited) | 11:35 – 11:50 | *Moscone West* | 2002 | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/119415>  |
| Andrew M McCaig | OS23F-05: Deformation Processes and the Sequence of Deformation, Alteration and Intrusion Events on an Oceanic Detachment Fault: IODP Expedition 357, Atlantis Massif, Mid-Atlantic Ridge | 14:40 - 14:55 | *Moscone West* | 3011 | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/158702>  |
| Thomas Mueller | V24C-02: The Potential of Diffusion Modelling to Unravel the P-T-t History of Geological Processe (Invited) | 16:15 – 16:30 | *Moscone South* | 305 | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/148377>  |

**Posters**

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| John Prytherch | C21C-0698: Direct Measurement of Air-Sea CO2 Exchange from an Icebreaker in Arctic Sea Ice Regions | 08:00 – 12:20 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/147510>  |
| Timothy Wright | G23A-1037: LiCSAR: Tools for automated generation of Sentinel-1 frame interferograms | 13:40 – 18:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/160810>  |

**Wednesday 14th December 2016**

**Leeds Convened Session**

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| Aisling M Dolan | PP31C: Quantitative Approaches to Paleoclimate Data, Models, and Their Intercomparison I Posters | 08:00 - 12:20 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Session/18029>  |
| Aisling M Dolan | PP33D: Quantitative Approaches to Paleoclimate Data, Models, and Their Intercomparison II | 13:40 - 15:40 | *Moscone West* | *2003* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Session/18072>  |

**Talks**

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| Jessica C Hawthorne | MR31B-01: Estimating the rupture extent of low frequency earthquakes near Parkfield, CA (Invited) | 08:00 – 08:15 | *Moscone South* | *301* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/120816>  |
| Caroline Prescott | PP31E-02: Modelling Regional Climate and Terrestrial Environmental Change during Interglacial Events of the Late Pliocene | 08:15 – 08:30 | *Moscone West* | *2003* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/133589>  |

**Posters**

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| Alan Haywood | PP31C-2294: The Past Earth Network | 08:00 – 12:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/156090>  |
| [Alan M Haywood](https://agu.confex.com/agu/fm16/meetingapp.cgi/Person/158807)/Fergus Howell | PP31C-2300: Pliocene Constraints on Earth System Sensitivity | 08:00 – 12:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/125994>  |
| [Aisling M Dolan](https://agu.confex.com/agu/fm16/meetingapp.cgi/Person/506) | PP31C-2301: Sources of Uncertainty in Modelling mid-Pliocene Arctic Amplification | 08:00 – 12:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/171759>  |
| [Zhi Li](https://agu.confex.com/agu/fm16/meetingapp.cgi/Person/167163) | MR31A-2650: The properties of (Mg,Fe)CO3 in the earth mantle conditions | 08:00 – 12:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/141416>  |
| Julia Tindall | PP33A-2343: Modelling the Mid-Pliocene Warm Period using HadGEM2. | 13:40 – 18:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/135440>  |
| [Jessica C Hawthorne](https://agu.confex.com/agu/fm16/meetingapp.cgi/Person/39078) | G33A-1074: Borehole strain observations of very low frequency earthquakes (Invited) | 13:40 – 18:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/120820>  |
| [Alan M Haywood](https://agu.confex.com/agu/fm16/meetingapp.cgi/Person/158807) | PP33A-2343: Modelling the Mid-Pliocene Warm Period using HadGEM2. | 13:40 – 18:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/135440>  |

**Thursday 15th December 2016**

**Leeds Convened Session**

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| Martyn Chipperfield (Chair) | A41J: Atmospheric Trace Species: Observations and Analyses of the Effects of Changing Atmospheric Composition on Stratospheric Ozone and Climate I | 08:00 – 10:00 | *Moscone West*  | *3008* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Session/16142>  |
| Ken Carslaw | A43N: Reducing Uncertainty in Aerosol Effects on Climate I | 13:40 – 15:40 | *Moscone West*  | *3010* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Session/16367>  |
| Ken Carslaw | A44E: Reducing Uncertainty in Aerosol Effects on Climate II | 16:00 – 18:00 | *Moscone West*  | *3010* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Session/16362>  |

**Talks**

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| Martyn Chipperfield  | A42B-02: Modelling the Impacts of Long-term Changes in Ozone Depleting Substances on Stratospheric Composition | 10:40 – 10:55 | *Moscone West*  | *3008* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/143284>  |
| Robert Kelly | EP42A-06: Estimation of Real-World Turbidity Current Durations from the Modelling of Levee Paleocurrent Evolution | 11:35 – 11:50 | *Moscone West* | *2005* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/157107>  |
| Leighton Regayre | A43N-03: Observed Top-Of-The-Atmosphere Radiative Fluxes Provide No Constraint On Aerosol Effective Radiative Forcing | 14:10 – 14:25 | *Moscone West* | *3010* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/117683>  |
| Andrew J Hooper  | U43A-02: Towards forecasting volcanic eruptions on a global scale (Invited) | 14:16 – 14:44 | *Moscone South* | *102* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/125526>  |
| Kate Briggs | C44B-01: Improving Estimates of Greenland Ice Sheet Surface Mass Balance with Satellite Observations (Invited) | 16:00 – 16:15 | *Moscone West* | *3007* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/160833>  |
| Jill Johnson | A44E-04: Confronting the Uncertainty in Regional Aerosol Forcing Uncertainty with Comprehensive Observational Data | 16:45 – 17:00 | *Moscone West* | *3010* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/176941>  |

**Posters**

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| Rob Dorrell | EP41B-0904: Equilibrium Conditions of Sediment Suspending Flows on Earth, Mars and Titan | 08:00 – 12:20 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/158225>  |
| Rebecca Smith | DI41C-2643: The African Large Low Shear Velocity Province: Boundary Positions and Anisotropy Measurements | 08:00 – 12:00 | *Mosocone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/172020>  |
| Philip W Livermore | DI43A-2664: An accelerating high-latitude jet in Earth’s core | 13:40 – 18:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/155967>  |

**Friday 16th December 2016**

**Leeds Convened Session**

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| Ken Carslaw | A51H: Reducing Uncertainty in Aerosol Effects on Climate III Posters | 08:00 – 12:20 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Session/12896>  |

**Talks**

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| Sebastian Rost | DI51C-06: Strong focussing of S- and P-waves turning near the CMB beneath Hawaii | 09:15 – 09:30 | *Moscone South* | *303* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/175709>  |
| Andy Nowacki | DI51C-07: Multipathing within LLSVPs in models of thermal and thermochemical mantle convection | 09:30 – 09:45 | *Moscone South* | *303* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/178073>  |
| Marco Bagnardi | Resolving Topographic Changes at Volcanoes Using Pleiades-1 Tri-stereo Imagery and Other Methods: the Example of Fogo Volcano. | 11:50 – 12:05 | *Moscone South* | *308* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/117632>  |
| John M C Plane | SA53C-05: Using Meteoric Ablation to Constrain Vertical Transport in the Upper Mesosphere | 14:40 – 14:55 | *Moscone West* | *2016* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/175789>  |
| Anna Hogg | C44B-04: 25 Years of Satellite Observations of Dynamic Instability in the Amundsen Sea Sector, West Antarctica | 16:45 – 17:00 | *Moscone West* | *3007* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/174736>  |

**Posters**

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| Wuhu Feng | SA51A-2402: Modelling simulations of NOx and HOx in the middle and upper atmosphere using a 3D Whole Atmosphere Community Climate Model with D region ion-neutral chemistry | 08:00 – 12:20 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/146510>  |
| Jacqueline Houghton | ED51H-0846: Teaching Basic Field Skills Using Screen-Based Virtual Reality Landscapes | 08:00 – 12:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/134553>  |
| Jacqueline Houghton | ED51H-0847: How to Make a Virtual Landscape with Outcrops for Use in Geoscience Teaching | 08:00 – 12:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/172939>  |
| Rob Dorrell | EP53E-1037: Experimental and theoretical models of ponded turbidity current inflation | 13:40 – 18:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/146739>  |
| Fiona Couperthwaite | V53B-3084: *From Rock to Magmatic Timescales in 25 Hours: Near-Real Time Petrological Volcanic Eruption Monitoring Tested with Basaltic Icelandic Tephras* | 13:40 – 18:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/172711>  |
| Matthew James Pankhurst | V53B-3081: Together at last? Geochemical and Geodetic Data Independently Explained with the same Causal Mechanism. (Invited) | 13:40 – 18:00 | *Moscone South* | *Poster Hall* | <https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/121972>  |