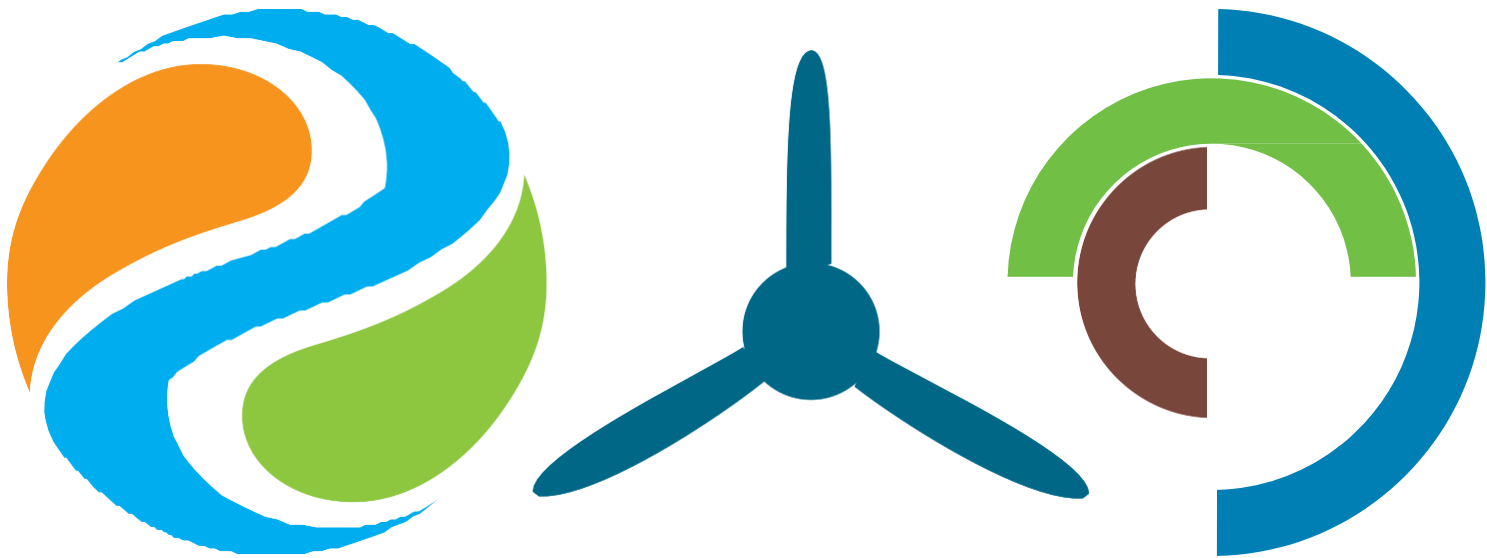


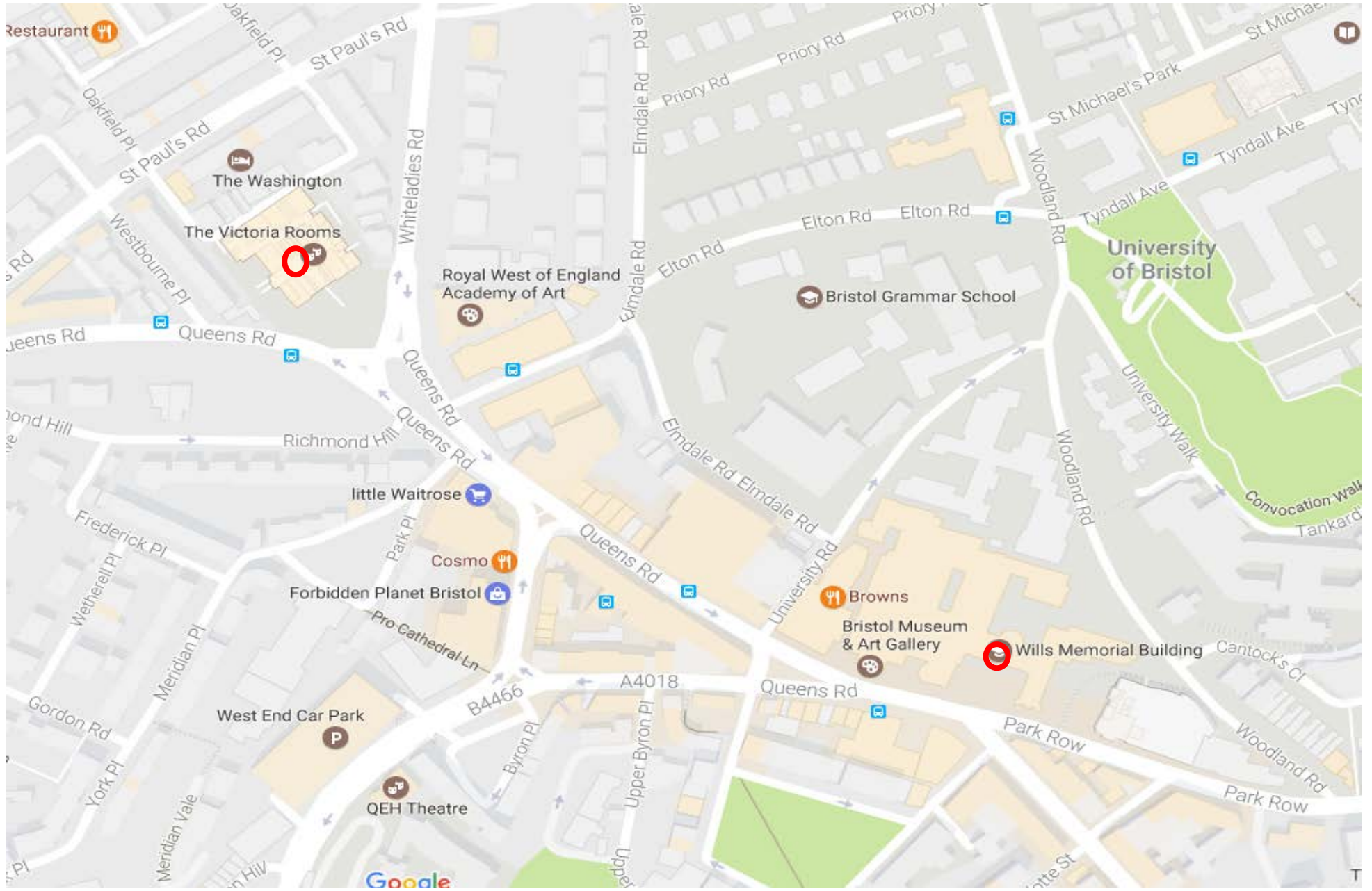
WESSEX 2017



Conference Handbook

Monday 10 – Tuesday 11 April 2017

Victoria Rooms, University of Bristol



The Washington

The Victoria Rooms

Royal West of England Academy of Art

Bristol Grammar School

University of Bristol

Little Waitrose

Cosmo

Forbidden Planet Bristol

Browns

Bristol Museum & Art Gallery

Wills Memorial Building

West End Car Park

QEJ Theatre

Google

We would like to welcome NERC Doctoral Training Partnership students the GW4+, SPITFIRE and Oxford DTPs to the Wessex DTP Congress in the Victoria Rooms, Bristol (see map attached). The congress will provide the opportunity for all students across the three research themes of Solid Earth, Living World and Changing Planet to present their work as a poster or short 3 minute presentation and the additional opportunity for 2nd and 3rd year students to give longer 15 minute presentations to their peers. Students will also work together to develop a '[Highlight Topic](#)' for submission to NERC to to '*address some of the major challenges of the 21st century: e.g. benefiting from natural resources, resilience to environmental hazards, and managing environmental change*'. Your challenge, in groups, will be to identify and develop a Highlight Topic, to prepare a 1 paragraph 'executive summary' and a 3 minute pitch, which you will present at the end of the meeting. The winning Highlight Topic will be submitted to NERC for formal consideration.

Link for further information:

<http://www.nerc.ac.uk/research/portfolio/strategic/ideas/>

Programme

Day 1 – Monday 10 April, Victoria Rooms, Queens Road, Bristol, BS8 1SA

9:00 – 10:00 Arrivals, registration and poster set up, **Recital Room**

10:00– 10:45 Introduction to the focus group activities, **Professor Ian Townend**: Developing a pitch for a NERC ‘Highlight’ strategic research project, **Auditorium**

10:45 – 11:00 Tea and Coffee, **Rooms G12 and G13**

11:00 – 11:40 Conference Session 1: Solid Earth, *Pete Barry*, **Auditorium**

11.40 – Parallel Sessions: 15 minute research talk (followed by 5 minutes of questions) and 3 minute flash talks (followed by 1 minute of questions)

Solid Earth (Albert Bar)			
Research talk	Frances Boreham	GW4+	Linking Inflated Flow Margins, Lava-Water Interactions and Rootless Cone Formation
Research talk	Jonathan Hunt	Oxford	Spatially variable CO ₂ degassing in the Main Ethiopian Rift: Implications for magma storage, volatile transport and rift-related emissions
Research talk	Kaja Fenn	Oxford	Provenance of late Quaternary Loess along the Middle and Lower Danube River, Europe
Flash talk	Anna Bidgood	Oxford	The transformation history of the Tso Moriri dome, Ladakh, Himalaya
Flash talk	Ailsa Naismith	GW4+	Recent eruptive activity at Volcan de Fuego and the status of monitoring and risk mitigation in Guatemala
Flash talk	Amber Madden-Nadeau	Oxford	Investigating the explosive-effusive transition: The magmatic history of Krakatau volcano, Indonesia
Flash talk	Rebecca Tyne	Oxford	Noble gas isotopes as tracers for natural and anthropogenic hydrocarbon contributions to Californian groundwaters
Flash talk	Ronald Guthrie	Oxford	Anoxia in the run up to the Late Devonian Mass Extinction

Changing Planet (Victoria Room)

Research talk	Vlad Macovei	Spitfire	Temporal variability in the biogeochemistry of the surface North Atlantic - more than a decade of Ship of Opportunity data
Research talk	Elizabeth Marsden	Spitfire	The importance of minerals in organic matter preservation
Research talk	Rebecca Summerfield	GW4+	X-rays reveal the past life of Indian Ocean corals
Flash talk	Daniel Montgomery	GW4+	Impacts of the 'deadly trio' of climate change stressors on marine fish and fisheries
Flash talk	James Cranston	GW4+	Climate opportunists: a threat to UK biodiversity or ecological refugee
Flash talk	Seb Dunnett	Spitfire	The implications for global biodiversity of a shift to low carbon economies
Flash talk	Sarah Gore	GW4+	Environmental Impacts of Increasing Ocean Alkalinity
Flash talk	Elizabeth Comer	Spitfire	Absolute velocity and transport across the Extended Ellett Line in the subpolar North Atlantic

Living World (Auditorium)

Research talk	Clare Prebble	Spitfire	Limited latitudinal ranging of whale sharks (<i>Rhincodon typus</i>) in the Western Indian Ocean and Arabia
Research talk	Josie D'Urban Jackson	GW4+	Spread your wings to get laid
Research talk	Rose Stainthorp	Spitfire	Bioenergetics of thermal tolerance in the purple-tipped sea urchin, <i>Psammechinus miliaris</i>
Flash talk	Chelsey Baker	Spitfire	How much organic carbon flux reaches the deep ocean Iceland Basin?
Flash talk	Christina Hunt	Oxford	Management of the invasive lionfish <i>Pterois volitans</i> in Honduras through the study of behaviour and ecology
Flash talk	Tomos Potter	Oxford	Predicting evolutionary and ecological change in wild populations
Flash talk	Rachel Kehoe	GW4+	Shifting day length regimes alter aphid-parasitoid community dynamics
Flash talk	Thomas Timberlake	GW4+	Mind the Gap: The importance of flowering phenology in pollinator restoration

1.00 – 2.15. Lunch, **Rooms G12 and G13** and Poster Session A. Foyer, Recital Room – Solid Earth and Changing Planet

2.15 – 3.15. Focus group work, **Breakout rooms: Victoria Room, Albert Bar, G12 and G13**. Challenge: to confirm the title of your pitch.

Tea served from 3.00 in **Rooms G12 and G13**.

3.15 – 3.55. Conference session 2: Changing Planet – **Tom Chalk, Searching for the successor to the ice-core CO₂ proxy, Auditorium**

3.55 - 5.15 – Parallel Sessions: 15 minute research talk (followed by 5 minutes of questions) and 3 minute flash talks (followed by 1 minute of questions)

Changing Planet and Solid Earth (Victoria Room)

Research talk	* Danielle McLean	Oxford	Towards an integrated Holocene tephrostratigraphy for East Asia: A high-resolution cryptotephra study from Lake Suigetsu (SG14 core), central Japan
Research talk	Erik Mackie	GW4+	Southern Ocean Circulation: Global Connections in a Warming World
Research talk	Zoe Roseby	Spitfire	Sedimentological variability produced by a retreating ice stream grounding line
Flash talk	**Jim Whiteley	GW4+	Seismic indicators of slope stability: initial findings
Flash talk	** Michael Hodge	GW4+	20 years later: What evidence is there for a Mw8 earthquake on the Bilila-Mtakataka fault, East Africa?
Flash talk	Alan Kennedy	GW4+	Exploring the Earth's greenhouse-icehouse transition using a climate simulation ensemble
Flash talk	Charlotte Clarke	Spitfire	Reconstructing environmental changes since the Last Ice Age using ancient DNA: A mammoth task
Flash talk	Elizabeth Marsden	Spitfire	The importance of minerals in organic matter preservation

* Solid Earth/Changing Planet

** Solid Earth

Living World (Auditorium)

Research talk	Kyle Mayers	Spitfire	Phylo'lipidomic' tree of haptophyte algae and their adaptive response to nutrient limitation
Research talk	Sara Mynott	GW4+	Crab camouflage in a warmer, more acidic ocean
Research talk	Stephanie Allen	Spitfire	Long-term stability of phytoplankton community composition in the North East Atlantic
Flash talk	Chris Terry	Oxford	Modelling Trophic Interaction Modifications in Food Webs
Flash talk	Henry Hakkinen	GW4+	Explained and Unexpected Species Distribution Limits: where do species live and why?
Flash talk	Fiona Jones	Oxford	Penguin conservation on a large scale, using a remote camera network and citizen science
Flash talk	Luke Holman	Spitfire	Environmental DNA and the study of marine biological invasions
Flash talk	Nia Thomas	GW4+	Otter lot of admixture

5.15 onwards – Remove posters

Evening: Wills Memorial Building – Great Hall, Wills Memorial Building, Queens Road, Bristol, BS8 1RJ

6.00 – 7.00 Keynote Talk: **Professor Steve Sparks** , Volcanos and Society (Reception Room)

7.00 – Wine reception

7.30 – Dinner in the Great Hall

Poster Session A

SOLID EARTH		
Anna Bidgood	Oxford	The transformation history of the Tso Morari dome, Ladakh, Himalaya
Catherine Buckland	Oxford	Testing the suitability of the p-IR IRSL signal when calculating the De of young aeolian sediments (<200a), Nebraska Sandhills
*Danielle McLean	Oxford	Identification of the Millennium (B-Tm) eruption in the Lake Suigetsu (Japan) sedimentary archive: Synchronisation of hemispheric-wide palaeoclimate records
Emma Bennett	GW4+	Crystal-scale records of the Gakkel Ridge magma plumbing system
Emma Chambers	Spitfire	Using ambient noise to image melt in the Northern East African Rift System
Frances Boreham	GW4+	High Resolution Mapping of Icelandic Rootless Cones Using UAVs
Harriet Godwin	Oxford	Seismic investigations into Earth's lowermost mantle
Iain Stobbs	Spitfire	"Geological Mapping and Drilling of extinct seafloor massive sulphide (eSMS) deposits, TAG Hydrothermal Field, Mid-Atlantic Ridge, 26°N"
James Davey	Spitfire	Brines and Base Metals: Initial Laser Ablation Results from Zambian Copperbelt Fluids
Jamie Gillies	GW4+	What Controls Titanium Stable Isotope Fractionation?
Jamie Price	GW4+	Gold Mineralisation in the Yalgoo-Singleton Greenstone Belt, Western Australia
Jessica Williamson	GW4+	Understanding conduit processes with InSAR at Turrialba, Costa Rica
Jim Whiteley	GW4+	Seismic indicators of slope stability: initial findings
Jo Miles	GW4+	Epithermal paleosurface exploration on Milos Island, Greece
Joanna Brims	GW4+	The early evolution of the Panama Arc
Jodi Walsh	GW4+	Modelling the propagation of underwater acoustic emissions for condition monitoring of Marine Renewable Energy
Jonathan Hunt	Oxford	The influence of structure on CO ₂ degassing and past volcanism in the Main Ethiopian Rift
Kaja Fenn	Oxford	Provenance of late Quaternary Loess along the Middle and Lower Danube River, Europe
Lucy Kissick	Oxford	Hydrogen on Mars: sources, abundance, and climatic potency
Luke Neal	GW4+	Insights into the magmatic evolution of porphyry systems from in situ studies of granitic rocks
Michael Cooper	GW4+	Subglacial roughness of the Greenland Ice Sheet: scale-dependence, anisotropy, and implications for contemporary ice dynamics
Michael Hodge	GW4+	20 years later: What evidence is there for a Mw8 earthquake on the Bilila-Mtakataka fault, East Africa?

Rebecca Ellis	GW4+	The influence of breathing sediment on oxygen dynamics and the marine benthos
Rebecca Morgan	Oxford	Isostatic Gravity Anomalies, Flexure and the Origin of Seaward Dipping Reflectors at Volcanic Rifted Margins
Rebecca Smith	Oxford	A tephra record of Lago Puyehue, Chilean Lake District, South America, detailing the frequency of past volcanic activity
Ruth Farley	Spitfire	Diversity of cumulate mush erupted from a complete magma reservoir
Sarah Howarth	Spitfire	The Geological and Oceanographic Controls on E-Tech Elemental Concentrations and Distributions in Ferromanganese Crusts
Tom Kettleby	GW4+	Modelling Triggering Mechanisms of Injection Induced Earthquakes

* Solid Earth/Changing Planet

CHANGING PLANET

Alan Kennedy	GW4+	Exploring the Earth's greenhouse-icehouse transition using a climate simulation ensemble
Alex Whittle	GW4+	Late Quaternary Changes in the westerly winds over the Southern Ocean
Amy Creese	Oxford	Using moisture flux convergence to constrain Congo rainfall in CMIP5 models
Angharad Stell	GW4+	Methane emissions- working back from atmospheric observations
Christine Jones	Spitfire	Investigating fracture mechanics, crevasse formation and flow dynamics at Isunguata Sermia, Greenland
Claire Donnelly	GW4+	Understanding contemporary change in the Patagonian icefields
Daniel Montgomery	GW4+	Impacts of the 'deadly trio' of climate change stressors on marine fish and fisheries
Elizabeth Comer	Spitfire	Absolute velocity and transport across the Extended Ellett Line in the subpolar North Atlantic
Elizabeth Marsden	Spitfire	The importance of minerals in organic matter preservation
Emily Slavin	GW4+	DAM: Destratification and Artificial Mixing
Emily Stebbings	GW4+	Ecosystem services and the economy
Erik Mackie	GW4+	Mapping Circulation Changes in the Southern Ocean
George Rowland	GW4+	Tracing aeolian dust in the tropical North Atlantic over the last glacial cycle
Georgia Hole	Oxford	Building the framework for a first high resolution spatiotemporal reconstruction of Holocene Arctic Sea Ice dynamics
Gwen Owen Jones	Spitfire	Early-to-mid Oligocene stratigraphy and palaeoceanography of Newfoundland margin sediment drifts
Hannah Littler	GW4+	Does pre-exposure to BPA affect susceptibility upon re-exposure?
James Cranston	GW4+	Climate opportunists: a threat to UK biodiversity or ecological refugees
James Duffy	GW4+	Spatial assessment of intertidal seagrass meadows using optical imaging systems and a lightweight drone
James Warner	GW4+	Arctic Sea Ice and Seasonal Weather Prediction
James Williams	GW4+	Antarctic Peninsula Glacial discharge over the last 2000 years
Jennifer Maddalena	GW4+	Evolution of the Greenland Ice Sheet from satellite altimetry and SAR
Josephine Mahony	Oxford	Evaluating model predictions of climate change in the Serengeti and modelling the potential impact on ungulate migration patterns
Katherine Pugsley	GW4+	High-precision 14C AMS Measurements of Atmospheric CO2
Louise Cornwell	GW4+	Understanding copepod physiological responses to Climate Change and Ocean Acidification
Markus Adloff	GW4+	Constraining carbon fluxes during the Oceanic Anoxic Event (OAE) 1a
Matt Brown	Oxford	The upper stratosphere - climate influencer?

Matthew Hall	GW4+	Antarctic Ice Sheet Instability: Insights from Palaeoclimate Data and Ice Sheet Modelling
Matthew Marshall	GW4+	Does erosion drive carbon cycling in glacial systems
Michael Carter-Gates	Spitfire	Exploring Arctic Marine Protist Diversity
Michael Nairn	GW4+	Correcting for the incorporation of Al, Mn, and Fe in Foraminiferal tests.
Rachael Sanders	Spitfire	Sea ice controls on Southern Ocean water mass formation
Rachael Shuttleworth	Spitfire	Testing the iron hypothesis
Rebecca Kearney	Oxford	Insight into past rapid climate change – reducing chronological uncertainty
Rebecca Shellock	GW4+	Do coastal improvements affect our well-being?
Rebecca Summerfield	GW4+	Developing baselines of coral skeletal growth and bioerosion from the Indian Ocean
Rose Willoughby	GW4+	Improving the Understanding of the Optical Properties of Atmospheric Aerosols
Sam Monk	Spitfire	Development of a Sensor of Oceanic Dissolve Inorganic Carbon
Samantha Hallam	Spitfire	The impact of Sea Surface Temperature and Ocean Heat content anomalies on Atlantic Tropical Cyclone Formation
Samuel Hatfield	Oxford	Improving weather forecasting skill through reduced precision data assimilation
Sarah Gore	GW4+	Environmental Impacts of Increasing Ocean Alkalinity
Sarah Nelms	GW4+	Investigating the occurrence of microplastics in multiple marine mammal species of the North-East Atlantic
Serginio Rimmelzwaal	GW4+	Assessing the faithfulness of foraminiferal calcite as a seawater chromium recorder
Stephen Ingram	GW4+	Investigating Secondary Organic Aerosol growth using optically trapped single particles
Vlad Macovei	Spitfire	Temporal variability in the biogeochemistry of the surface North Atlantic - more than a decade of Ship of Opportunity data
Zoe Roseby	Spitfire	Sedimentological variability produced by a retreating ice stream grounding line

Day 2 – Tuesday 11 April

9:00 – 10:30 Setting up of posters and Focus groups: to conclude their pitches, and submit slides for their 3 minute presentation, and a 1 paragraph 'executive summary'. Coffee/Tea available, **Rooms G12 and G13**

10:30 – 11:10 Conference session 3: Living World – Dr Gregory Sutton, Bees, electrostatics, and the power of floral advertising, **Auditorium**

11.10 – Parallel Sessions: Parallel Sessions: 15 minute research talk (followed by 5 minutes of questions) and 3 minute flash talks (followed by 1 minute of questions)

Changing Planet (Victoria Room)			
Research talk	Jade Reidy	Spitfire	Basics of aurora formation and introduction to polar cap aurora
Research talk	Samuel Hatfield	Oxford	Improving weather forecasting skill through reduced precision data assimilation
Research talk	Danielle Mclean	Oxford	Towards an integrated Holocene tephrostratigraphy for East Asia: A high-resolution cryptotephra study from Lake Suigetsu (SG14 core), central Japan
Flash talk	Nigel Sainsbury	GW4+	Are severe weather events the greatest risk to global fisheries?
Flash talk	Stephen Ingram	GW4+	Investigating Secondary Organic Aerosol growth using optically trapped single particles
Flash talk	James King	Oxford	The East African Rainfall Paradox
Flash talk	Katherine Pugsley	GW4+	High-precision ¹⁴ C AMS Measurements of Atmospheric CO ₂
Flash talk	Ryan Patmore	Spitfire	The Formation of Southern Ocean Gyres

Living World (Auditorium)			
Research talk	Matthias Thomsen	Spitfire	Compensatory responses to biodiversity loss alter ecosystem consequences
Research talk	Steven Bourne	Spitfire	Investigating the Global Spread of Three Marine Invaders
Research talk	Mike Harrap	GW4+	Floral temperature patterns: their diversity and use
Flash talk	Katie St John Glew	Spitfire	A brief summary of my PhD: developing a tool to conserve and manage our seas
Flash talk	Tim Gordon	GW4+	Degraded Great Barrier Reef no longer sounds like home: acoustic negative feedback jeopardises reef recovery
Flash talk	Ewa Poniecka	GW4+	Black holes are alive!
Flash talk	Christian Laurent	Spitfire	Inside a Feather
Flash talk	Jared Wilson-Aggarwal	GW4+	Contact networks for free-roaming domestic dogs

12.30 – 1.45 pm. Lunch, **Rooms G12 and G13** and Poster Session B – Living World & Changing Planet, **Recital Room**

1.45 – 3.00. Focus Group Pitches.

3 – 3.30. Judging Panels identify the winning pitch, and prizes for best student talk and best poster.

3.30 – Take down posters

Poster Session B

LIVING WORLD		
Alexandra Jamieson	Oxford	The arrival of mountain hares to the Outer Hebrides of Scotland: an ancient DNA study
Amber Cobley	Spitfire	Reviewing the environmental and regulatory landscape for deep-seabed mining: a chance to get it right.
Armin Elsler	GW4+	Body size evolution in major amniote clades during the late Palaeozoic–early Mesozoic
Caroline Liddell	GW4+	Parasite Avoidance Behaviour in Sheep
Catherine Bayliss	GW4+	Dissolved organic matter – tasty treat or indigestible rubbish for freshwater microalgae?
Cathryn Quick	Spitfire	Mechanisms of extreme temperature tolerance of reef corals revealed by Nuclear Magnetic Resonance (NMR) spectroscopy
Chelsey Baker	Spitfire	Investigating particle flux in the Iceland Basin using a mesoscale sediment trap array
Chris Terry	Oxford	What exactly are Trophic Interaction Modifications?
Christian Laurent	Spitfire	Inside a Feather
Clare Prebble	Spitfire	Whale shark connectivity
Conor Waldock	Spitfire	Realized thermal performance curves predict species abundance change with global warming
Edward Wort	Spitfire	Rocky intertidal macroecology: Mind the gap
Elis Newham	Spitfire	Sexual dimorphism in dental cementum microstructure: potential for sexing hominin remains.
Ella Mcknight	Spitfire	The influence of environmental variability on the ecological performance of native and non-native marine organisms.
Emma Landon	GW4+	Palaeobiology and Preservation of Ediacaran Algae from the Weng'an Biota
Evangelos Dimopoulos	Oxford	Ancient DNA and pathogens
Ewa Poniecka	GW4+	Black holes are alive!
Fiann Smithwick	GW4+	Countershading and stripes in <i>Sinosauroptryx</i> reveal heterogeneous habitats in the Jehol Biota
Fiona Jones	Oxford	Investigating the threats to penguin species in the Southern Ocean, using a remote monitoring system.
Fred Windsor	GW4+	Evidence of microplastic entry into freshwater food webs
Graham Epstein	Spitfire	Spread of the invasive kelp <i>Undaria pinnatifida</i> from marinas to rocky reef
Harriet Dale	Spitfire	Impacts of invertebrate mucus secretion on sediment microbial communities and nitrogen cycling processes
Harry Harding	GW4+	Fish in noisy habitats show reduced sensitivity to motorboat noise
Harry Teagle	Spitfire	Climate driven changes in kelp abundances may deplete local biodiversity
Henry Hakkinen	GW4+	Explained and Unexpected Species Distribution Limits: where do species live and why?

Holly Betts	GW4+	A timescale for life's early evolution: Is it time to leave a literal interpretation of the fossil record behind?
Holly Tipper	GW4+	Prevalence and diversity of antimicrobial resistance genes in wild fish gut microbiota
Jared Wilson-Aggarwal	GW4+	Contact networks for free-roaming domestic dogs
Joseph Bartram	Oxford	Bayesian Fish: learning to adjust to changing environments
*Julia Haywood	GW4+	The influence of foraging success on Loggerhead turtle migration and breeding, and the ecological impact of a changing climate
Katherine Short	GW4+	Life in the Extreme: When did the Water Bears (Phylum Tardigrada) Colonise Antarctica?
Katie Dunkley	GW4+	Comparisons of cleaning behaviour on a Caribbean reef
Katie St John Glew	Spitfire	Testing where your fish comes from: A proof of concept
Kayleigh Jones	GW4+	The Ontogeny of Sexual Segregation in Antarctic Fur Seals
Kyle Mayers	Spitfire	Top-down control on Coccolithophore populations during Spring in a Temperate Shelf Sea Environment
Laurie Belcher	GW4+	The Tragedy of the Commons in Evolutionary Biology
Lucie Munns	Spitfire	Diversity of Coccolithophore Photophysiology: Is <i>Emiliana huxleyi</i> a good representative?
Marla Spencer	Spitfire	Positive partnerships: using Environmental Impact Assessment surveys to study the taxonomy and biogeography of peracarid species
Matthew Cobain	Spitfire	The Spatio-temporal Distribution of the North Sea Fish Community and its Variance - a Scaling Approach
Matthias S. Thomsen	Spitfire	Compensatory responses to biodiversity loss alter ecosystem consequences
Michael Harrap	GW4+	Floral temperature patterns: their diversity and use
Oliver Hogg	Spitfire	Landscape mapping at subAntarctic South Georgia provides a protocol for underpinning largescale marine protected areas
Rachel Coppock	GW4+	A small-scale, portable method for extracting microplastics from marine sediments
Rachael Graham	Spitfire	The genomics of parallel adaptation in Macaronesian <i>Echium</i> (Boraginaceae)
Rachel Jones	GW4+	The Changing Status of the Lulworth Skipper (<i>Thymelicus acteon</i>)
Rebecca Cole	GW4+	Distribution and variation within and between genomes of a nematode parasite
Rebecca Huggett	Spitfire	Modelling the impact of macronutrients on the eutrophication status of Christchurch Harbour - Developing a hydrodynamic model
Rob Paton	Oxford	The ecology of <i>Aedes</i> mosquitoes: competition and stochasticity
Robert Cooke	Spitfire	Ecological resilience across the globe
*Robert Yarlett	GW4+	Quantifying the contribution of parrotfish to carbonate cycling in coral reef ecosystems
Rose Stainthorp	Spitfire	Bioenergetics of thermal tolerance in the purple-tipped sea urchin, <i>Psammechinus miliaris</i>

Samantha Simpson	Spitfire	Movement ecology of skates (Rajidae)
Sara Mynott	GW4+	Crabs camouflage faster at higher temperatures
Sarah Davies	GW4+	Projecting the effects of climate change on prey selection and dietary competition between reed bed warbler species across Europe
Saskia Ruhl	Spitfire	Organic fluxes between benthic and pelagic systems
Sophie Watson	GW4+	Investigating the gut macro-/microbiota of polar bears
Stacey New	GW4+	*Charcoal reflectance: Can this technique be used to provide a quantitative measure of fire severity?
Steven Bourne	Spitfire	Investigating the Global Spread of Three Marine Invaders
Tabitha R R Pearman	Spitfire	Habitat Mapping Canyon Corals
Thomas Timberlake	GW4+	Mind the Gap: The importance of flowering phenology in pollinator restoration
Tim Gordon	GW4+	*A deathly silence: Degraded Great Barrier Reef no longer sounds like home

*** Living World/Changing Planet**

CHANGING PLANET		
Charlotte Clarke	Spitfire	Polar Ural Mountains: A surprisingly rich flora for the past 25,000 years
Jade Reidy	Spitfire	Multi-instrument observation of polar cap aurora
James Crosby	GW4+	The biogeochemical processing potential of Greenland's glacial fjords
Jamie Parkinson	Oxford	Modelling of Sea Ice Formation and Mushy-Layer Convection with Adaptive Mesh Refinement
Moya Macdonald	GW4+	Glacial erosion fuels chemical weathering and microbial metabolism in the deep icy biosphere
Ryan Patmore	Spitfire	The Formation of Southern Ocean Gyres
Vicki Taylor	Spitfire	Does the ITCZ shift in lock-step with Antarctic glaciation across the Eocene-Oligocene Transition? A central equatorial Pacific perspective

Focus Groups

<p>Group 1</p> <p>Sarah Gore K Pugsley R Shuttleworth Sam Monk Markus Adloff Louise Cornwell E Marsden Chelsey Baker Ryan Patmore Angharad Stell Robert Yarlett George Spill</p>	<p>Group 2</p> <p>James Warner Jennifer Maddalena James Crosby Christine Jones Jamie Parkinson Ewa Poniacka Moya Macdonald Michael Cooper Georgia Hole Kyle Mayers Michael Carter-Gates Zoe Roseby David Bett</p>	<p>Group 3</p> <p>James Williams Matthew Hall Rachael Sanders Erik Mackie Claire Donnelly Katherine Short Jade Reidy Rebecca Huggett Helena Pryer Lucie Munns Caspar Donnison Roseanna Mayfield</p>
<p>Group 4</p> <p>Samantha Hallam Ella Mcknight Vicki Taylor Amy Creese Matt Brown Ronald Guthrie Catherine Buckland Alex Whittle Matthew Marshall Nigel Sainsbury Stephen Ingram George H Rowland Kaja Fenn</p>	<p>Group 5</p> <p>Gwen Jones J Cartwright D Stephenson R Kearney Samuel Hatfield Lucy Kissick James King J Mahony R Willoughby Alan Kennedy Matt Trevers Oliver Bartlett</p>	<p>Group 6</p> <p>Emma Chambers Jessica Williamson Ailsa Naismith Jim Whiteley Frances Boreham Kate Jillings Claudia Jones Rebecca Smith Jonathan Hunt Rebecca Morgan Emily Slavin Rebecca Tyne</p>
<p>Group 7</p> <p>Stacey New Ruth Farley Tom Kettlety Jamie Gillies Joanna Brims Emma Bennett Michael Hodge Amber L. Madden- Nadeau Nicholas Dodds Harriet Godwin Danielle McLean</p>	<p>Group 8</p> <p>Michael Nairn S Rimmelzwaal Saskia Ruhl Rebecca Harriet Dale Elizabeth Comer Vlad Macovei Stephanie Allen Catherine Bayliss Sarah Nelms Chris Terry Rachel Kehoe</p>	<p>Group 9</p> <p>Katie St John Glew Samantha Simpson Christina Hunt Graham Epstein James Cranston Clare Prebble Steven Bourne Luke Holman Julia Haywood Edward Wort Rebecca Cole Fred Windsor</p>

<p>Group 10 Matthew Cobain Oliver Hogg Robert Cooke Jared Wilson- Aggarwal Matthias S. Thomsen Henry Hakkinen Tabitha Pearman James Duffy Conor Waldock Josie D'Urban Jackson Rachael Graham Fiann Smithwick Rose Stainthorp</p>	<p>Group 11 Harry Harding Tim Gordon Jodi Walsh Rob Paton Cathryn Quick Sara Mynott Michael Harrap Joseph Bartram Thomas Timberlake Sarah Davies Laurie Belcher Rebecca Summerfield Christian Laurent</p>	<p>Group 12 Fiona Jones Rachel Jones Kayleigh Jones Harry Teagle Nia Thomas Tomos Potter Emma Landon Armin Elsler Charlotte Clarke Alexandra Jamieson Evangelos Antonios Dimopoulos Elis Newham Holly Betts</p>
<p>Group 13 Marla Spencer Jo Miles James Davey Jamie Price Sarah Howarth Luke Neal Amber Cobley Iain Stobbs E Stebbings Seb Dunnett Paul Hackett Anna Bidgood</p>	<p>Group 14 Daniel Montgomery Katie Dunkley Sophie Watson Caroline Liddell Rebecca Shellock Liam Langley Rachel Coppock Holly Tipper Anita Hollingsworth Camilla Cassidy Hannah Littler</p>	