

EVALUATION OF NERC CENTRES 2013

RESEARCH EXCELLENCE SUBMISSION: NATIONAL CENTRE FOR ATMOSPHERIC SCIENCE

Research outputs submitted by eligible staff

Surname	First name	Output type	Title	Volume title	Article number	Volume number	Issue number	Year	End
Alfarra	M Rami	Journal article	O/C and OM/OC Ratios of Primary, Secondary, and Ambient Organic Aerosols with High Resolution Time-of-Flight Aerosol Mass Spectrometry	Environmental Science And Technology		42		2008	
Alfarra	M Rami	Journal article	Cloud forming potential of secondary organic aerosol under near atmospheric conditions	Geophysical Research Letters		35		2008	
Alfarra	M Rami	Journal article	The effect of photochemical ageing and initial precursor concentration on the composition and hygroscopic properties of β -caryophyllene secondary organic aerosol	Atmospheric Chemistry And Physics		12		2012	
Alfarra	M Rami	Journal article	Identification of the mass spectral signature of organic aerosols from wood burning emissions	Environmental Science And Technology		41		2007	
Allan	James	Journal article	Ubiquity and dominance of oxygenated species in organic aerosols in anthropogenically-influenced Northern Hemisphere midlatitudes	Geophysical Research Letters	L13801	34		2007	
Allan	James	Journal article	Evolution of Organic Aerosols in the Atmosphere	Science		326		2009	
Allan	James	Journal article	Contributions from transport, solid fuel burning and cooking to primary organic aerosols in two UK cities	Atmospheric Chemistry And Physics		10		2010	
Allan	James	Journal article	Vertical distribution of sub-micron aerosol chemical composition from North-Western Europe and the North-East Atlantic	Atmospheric Chemistry And Physics		9		2009	
Archibald	Alexander	Journal article	An isoprene mechanism intercomparison	Atmospheric Environment				2009	
Archibald	Alexander	Journal article	Impacts of mechanistic changes on HOx formation and recycling in the oxidation of isoprene.	Atmospheric Chemistry And Physics		10		2010	
Archibald	Alexander	Journal article	Impacts of HOx regeneration and recycling in the oxidation of isoprene: Consequences for the composition of past, present and future atmospheres.	Geophysical Research Letters		38		2011	
Archibald	Alexander	Journal article	Heterogeneous uptake of gaseous hydrogen peroxide by Gobi and Saharan dust aerosols: a potential missing sink for H ₂ O ₂ in the troposphere.	Atmospheric Chemistry And Physics		10		2010	
Beddows	David	Journal article	Atmospheric chemistry and physics in the atmosphere of a developed megacity (London): an overview of the REPARTEE experiment and its conclusions	Atmospheric Chemistry And Physics		12		2012	
Beddows	David	Journal article	Remarkable dynamics of nanoparticles in the urban atmosphere	Atmospheric Chemistry And Physics		11		2011	
Beddows	David	Journal article	Number size distributions and seasonality of submicron particles in Europe 2008–2009	Atmospheric Chemistry And Physics		11		2011	
Beddows	David	Journal article	PMF Analysis of Wide-Range Particle Size Spectra Collected on a Major Highway	Environmental Science And Technology		45		2011	
Bennett	Lindsay	Journal article	The Convective and Orographically-induced Precipitation Study (COPS): the scientific strategy, the field phase, and research highlights	Quarterly Journal Of The Royal Meteorological Society		137	S1	2011	
Bennett	Lindsay	Journal article	Observations of the Evolution of the Nocturnal and Convective Boundary Layers and the Structure of Open-Celled Convection on 14 June 2002	Monthly Weather Review		138	7	2010	
Bennett	Lindsay	Journal article	Observations of the development of convection through a series of stable layers during the Convective Storm Initiation Project	Quarterly Journal Of The Royal Meteorological Society		134	637	2008	
Bennett	Lindsay	Journal article	The Convective Storm Initiation Project	Bulletin Of The American Meteorological Society		88	12	2007	
Berrisford	Paul	Journal article	The ERA-Interim reanalysis: configuration and performance of the data assimilation system.	Quarterly Journal Of The Royal Meteorological Society		137	656	2011	
Berrisford	Paul	Journal article	Blocking and Rossby Wave Breaking on the Dynamical Tropopause in the Southern Hemisphere.	Journal Of The Atmospheric Sciences		64	8	2007	

Berrisford	Paul	Journal article	Atmospheric conservation properties in ERA-Interim.	Quarterly Journal Of The Royal Meteorological Society		137	659	2011
Berrisford	Paul	Journal article	State of the Climate in 2011	Bulletin Of The American Meteorological Society		93	7	2012
Black	Emily	Journal article	Cultivating c4 crops in a changing climate: sugarcane in Ghana	Environmental Research Letters		7	4	2012
Black	Emily	Journal article	Fingerprints of changes in annual and seasonal precipitation from CMIP5 models over land and ocean	Environmental Research Letters		39	21	2012
Black	Emily	Journal article	The influence of the North Atlantic Oscillation and European circulation regimes on the daily to interannual variability of winter precipitation in Israel	International Journal Of Climatology		32	11	2011
Black	Emily	Journal article	The impact of climate change on daily precipitation statistics in Jordan and Israel	Atmospheric Science Letters		10	3	2009
Blackburn	Mike	Journal article	The role of eddies in driving the tropospheric response to stratospheric heating perturbations.	Journal Of The Atmospheric Sciences		66	5	2009
Blackburn	Mike	Journal article	A New Rossby Wave-Breaking Interpretation of the North Atlantic Oscillation.	Journal Of The Atmospheric Sciences		65	2	2008
Blackburn	Mike	Journal article	The Storm-Track Response to Idealized SST Perturbations in an Aquaplanet GCM.	Journal Of The Atmospheric Sciences		65	9	2008
Blackburn	Mike	Journal article	The basic ingredients of the North Atlantic storm track. Part I: land-sea contrast and orography.	Journal Of The Atmospheric Sciences		66	9	2009
Blitz	Mark	Journal article	Interception of Excited Vibrational Quantum States by O2 in Atmospheric Association Reactions	Science		337		2012
Blitz	Mark	Journal article	A multidimensional study of the reaction CH2I+O2: products and atmospheric implications	A European Journal Of Chemical Physics And Physical Chemistry		11	18	2010
Blitz	Mark	Journal article	Experimental and Modeling Studies of the Pressure and Temperature Dependences of the Kinetics and the OH Yields in the Acetyl + O2 Reaction	The Journal Of Physical Chemistry		115	6	2011
Blitz	Mark	Journal article	Kinetic studies of atmospherically relevant silicon chemistry Part I: Silicon atom reactions	Physical Chemistry Chemical Physics		11	4	2009
Blyth	Alan	Journal article	The response of precipitation to aerosol through riming and melting in deep convective clouds	Atmospheric Chemistry And Physics		11	7	2011
Blyth	Alan	Journal article	Development of ice particles in convective clouds observed over the Black Forest mountains during COPS	Quarterly Journal Of The Royal Meteorological Society		137	SI	2011
Blyth	Alan	Journal article	Early evolution of the largest-sized droplets in maritime cumulus clouds	Quarterly Journal Of The Royal Meteorological Society		136	648	2010
Blyth	Alan	Journal article	Variable cirrus shading during CSIP IOP 5. II: Effects on the convective boundary layer	Quarterly Journal Of The Royal Meteorological Society		133	628	2007
Boppana	Bharathi	Journal article	Large-Eddy Simulation of Dispersion from Line Sources in a Turbulent Channel Flow.	Flow Turbulence And Combustion		88	3	2012
Boppana	Bharathi	Journal article	Onset of global instability in the flow past a circular cylinder cascade	Journal Of Fluid Mechanics		668		2011
Boppana	Bharathi	Journal article	Large-Eddy Simulation of Dispersion from Surface Sources in Arrays of Obstacles	Boundary-Layer Meteorology		135	3	2010
Boppana	Bharathi	Journal article	Global flow instability in a lid-driven cavity	International Journal For Numerical Methods In Fluids		62	8	2010
Braesicke	Peter	Journal article	Stratospheric aerosol particles and solar-radiation management.	Nature Climate Change		2		2012
Braesicke	Peter	Journal article	Might dimming the sun change atmospheric ENSO teleconnections as we know them?	Atmospheric Science Letters		12		2011
Braesicke	Peter	Journal article	Pathways and timescales for troposphere-to-stratosphere transport via the tropical tropopause layer and their relevance for very short lived substances	Journal Of Geophysical Research-Atmospheres		112		2007

Braesicke	Peter	Journal article	Impact of stratospheric ozone on Southern Hemisphere circulation change: A multimodel assessment	Journal Of Geophysical Research-Atmospheres		115		2010
Brooks	Barbara	Journal article	Eddy covariance measurements of the sea spray aerosol flux over the open ocean	Journal Of Geophysical Research-Atmospheres	D07210	117		2012
Brooks	Barbara	Journal article	Measurement of bubble size spectra within leads in the Arctic summer pack ice	Ocean Science		7		2011
Brooks	Barbara	Journal article	A Compact Lightweight Aerosol Spectrometer Probe (CLASP).	Journal Of Atmospheric And Oceanic Technology		25	11	2008
Brooks	Barbara	Journal article	Intercomparison of VACC- and AMS-derived nitrate, sulphate and ammonium aerosol loadings during ADRIEX	Quarterly Journal Of The Royal Meteorological Society		133	S1	2007
Burton	Ralph	Journal article	The Harmattan over West Africa: nocturnal structure and frontogenesis	Quarterly Journal Of The Royal Meteorological Society				2012
Burton	Ralph	Journal article	Limited-area modelling of stratocumulus over South-Eastern Pacific	Atmospheric Chemistry And Physics		12	7	2012
Burton	Ralph	Journal article	Initiation of deep convection at marginal instability in an ensemble of mesoscale models: a case-study from Cops	Quarterly Journal Of The Royal Meteorological Society		137	SI	2011
Burton	Ralph	Journal article	Initiation of convection over the Black Forest mountains during COPS IOP15a	Quarterly Journal Of The Royal Meteorological Society		137	S1	2011
Carver	Glenn	Journal article	Interannual variability of tropospheric composition: the influence of changes in emissions, meteorology and clouds.	Atmospheric Chemistry And Physics		10		2010
Carver	Glenn	Journal article	Bromoform in the tropical boundary layer of the Maritime Continent during OP3	Atmospheric Chemistry And Physics		10		2010
Carver	Glenn	Journal article	Observations of an atmospheric chemical equator and its implications for the tropical warm pool region.	Journal Of Geophysical Research-Atmospheres		113		2008
Carver	Glenn	Journal article	Clouds, photolysis and regional tropospheric ozone budgets.	Atmospheric Chemistry And Physics		9		2009
Chagnon	Jeffrey	Journal article	A comparison of stratosphere-troposphere transport in convection-permitting and convection-parameterizing simulations of three mesoscale convective systems	Journal Of Geophysical Research-Atmospheres	D24318	115		2010
Chagnon	Jeffrey	Journal article	Gravity Waves, Dynamical Resistance, and Forcing Efficiency	Journal Of The Atmospheric Sciences		67	6	2010
Chagnon	Jeffrey	Journal article	Horizontal potential vorticity dipoles on the convective storm scale	Quarterly Journal Of The Royal Meteorological Society		135	643	2009
Chagnon	Jeffrey	Journal article	Analysis of convectively-generated gravity waves in mesoscale model simulations and wind-profiler observations	Quarterly Journal Of The Royal Meteorological Society		134	632	2008
Chemel	Charles	Journal article	Response of London's Urban Heat Island to a Marine Air Intrusion in an Easterly Wind Regime	Boundary-Layer Meteorology		144	1	2012
Chemel	Charles	Journal article	Evaluation of a CMAQ simulation at high resolution over the UK for the calendar year 2003.	Atmospheric Environment		44	24	2010
Chemel	Charles	Journal article	A formulation of convective entrainment in terms of mixing efficiency	Journal Of Fluid Mechanics		580		2007
Chemel	Charles	Journal article	Trace gas/aerosol boundary concentrations and their impacts on continental-scale AQMEII modeling domains	Atmospheric Environment		53	SI	2012
Coceal	Omduth	Journal article	Dispersion of a Point-Source Release of a Passive Scalar Through an Urban-Like Array for Different Wind Directions	Boundary-Layer Meteorology		139	3	2011
Coceal	Omduth	Journal article	Large-Eddy Simulation of Flows over Random Urban-like Obstacles	Boundary-Layer Meteorology		129	1	2008
Coceal	Omduth	Journal article	Structure of turbulent flow over regular arrays of cubical roughness	Journal Of Fluid Mechanics		589	1	2007
Coceal	Omduth	Journal article	Spatial variability of flow statistics within regular building arrays	Boundary-Layer Meteorology		125	3	2007
Coe	Hugh	Journal article	Evidence for a significant proportion of Secondary Organic Aerosol from isoprene above a maritime tropical forest	Atmospheric Chemistry And Physics		11		2011

Coe	Hugh	Journal article	Aerosol mass spectrometer constraint on the global secondary organic aerosol budget	Atmospheric Chemistry And Physics		11		2011
Coe	Hugh	Journal article	Exploring the vertical profile of atmospheric organic aerosol: comparing 17 aircraft field campaigns with a global model	Atmospheric Chemistry And Physics		11		2011
Coe	Hugh	Journal article	Mass spectral characterization of submicron biogenic organic particles in the Amazon Basin	Geophysical Research Letters		36		2009
Collier	Chris	Journal article	Flash flood forecasting: What are the limits of predictability?	Quarterly Journal Of The Royal Meteorological Society		133	622	2007
Collier	Chris	Journal article	On the propagation of uncertainty in weather radar estimates of rainfall through hydrological models	Meteorological Applications		16	1	2009
Collier	Chris	Journal article	Assimilation of Doppler radial winds into a 3D-Var system: Errors and impact of radial velocities on the variational analysis and model forecasts	Quarterly Journal Of The Royal Meteorological Society		134	636	2008
Collier	Chris	Journal article	An Analysis of the Performance of the UFAM Pulsed Doppler Lidar for Observing the Boundary Layer	Journal Of Atmospheric And Oceanic Technology		26	2	2009
Crosier	Jonathan	Journal article	Observations of ice multiplication in a weakly convective cell embedded in supercooled mid-level stratus	Atmospheric Chemistry And Physics		11	1	2011
Crosier	Jonathan	Journal article	Reconciliation of measurements of hygroscopic growth and critical supersaturation of aerosol particles in central Germany	Atmospheric Chemistry And Physics		10	23	2010
Crosier	Jonathan	Journal article	Closure study between chemical composition and hygroscopic growth of aerosol particles during Torch2	Atmospheric Chemistry And Physics		7	24	2007
Crosier	Jonathan	Journal article	Chemical composition of summertime aerosol in the Po Valley (Italy), northern Adriatic and Black Sea	Quarterly Journal Of The Royal Meteorological Society		133	51	2007
Dong	Buwen	Journal article	Land/sea warming ratio in response to climate change: IPCC AR4 model results and comparison with observations.	Geophysical Research Letters		34		2007
Dong	Buwen	Journal article	Understanding land-sea warming contrast in response to increasing greenhouse gases. Part I: Transient adjustment.	Journal Of Climate		22		2009
Dong	Buwen	Journal article	Enhancement of ENSO Variability by a Weakened Atlantic Thermohaline Circulation in a Coupled GCM.	Journal Of Climate		20		2007
Dong	Buwen	Journal article	Atlantic Ocean Influence on a shift in European climate in the 1990s	Nature Geoscience		5		2012
Dorsey	James	Journal article	In situ observations of volcanic ash clouds from the FAAM aircraft during the eruption of Eyjafjallajökull in 2010	Journal Of Geophysical Research	D00U24	117		2012
Dorsey	James	Journal article	Measurements and comparison of primary biological aerosol above and below a tropical forest canopy using a dual channel fluorescence spectrometer	Atmospheric Chemistry And Physics		10	10	2010
Dorsey	James	Journal article	Particle fluxes and condensational uptake over sea ice during COBRA	Journal Of Geophysical Research	D15202	117		2012
Dorsey	James	Journal article	Aerosol fluxes and particle growth above managed grassland	Biogeosciences		6		2009
Evans	Mat	Journal article	Comparison of tropospheric gas-phase chemistry schemes for use within global models	Atmospheric Chemistry And Physics		9		2009
Evans	Mat	Journal article	Chemistry of hydrogen oxide radicals (HOx) in the Arctic troposphere in spring	Atmospheric Chemistry And Physics		10		2010
Evans	Mat	Journal article	Isoprene oxidation mechanisms: measurements and modelling of OH and HO2 over a South-East Asian tropical rainforest during the OP3 field campaign	Atmospheric Chemistry And Physics		11		2011
Evans	Mat	Journal article	The impact on resolution on ship plume simulations with NOx chemistry	Atmospheric Chemistry And Physics		9		2009
Feng	Wuhu	Journal article	Possible Dynamical Mechanisms for Southern Hemisphere Climate Change due to the Ozone Hole	Journal Of The Atmospheric Sciences		69		2012
Feng	Wuhu	Journal article	The existence of the edge region of the Antarctic stratospheric vortex	Journal Of Geophysical Research-Atmospheres		117		2012

Feng	Wuhu	Journal article	The contribution of natural and anthropogenic very short-lived species to stratospheric bromine	Atmospheric Chemistry And Physics		12		2012
Feng	Wuhu	Journal article	Modelling the effect of denitrification on polar ozone depletion for Arctic winter 2004/2005	Atmospheric Chemistry And Physics		11		2011
Fleming	Zoe	Journal article	Have primary emission reduction measures reduced ozone across Europe? An analysis of European rural background ozone trends 1996-2005	Atmospheric Chemistry And Physics		12		2012
Fleming	Zoe	Journal article	A year of H2 measurements at Weybourne Atmospheric Observatory, UK	Tellus Series B - Chemical And Physical Meteorology	17771	64		2012
Fleming	Zoe	Journal article	The multi-seasonal NOy budget in coastal Antarctica and its link with surface snow and ice core nitrate: results from the CHABLIS campaign	Atmospheric Chemistry And Physics		11		2011
Fleming	Zoe	Journal article	Chemistry of the Antarctic Boundary Layer and the Interface with Snow: an overview of the CHABLIS campaign	Atmospheric Chemistry And Physics		8		2008
Frame	Tom	Journal article	Ensemble prediction of transitions of the North Atlantic eddy-driven jet	Quarterly Journal Of The Royal Meteorological Society		137	658	2011
Frame	Tom	Journal article	Baroclinic Waves with Parameterized Effects of Moisture Interpreted Using Rossby Wave Components	Journal Of The Atmospheric Sciences		67	9	2010
Frame	Tom	Journal article	An Interpretation of Baroclinic Initial Value Problems: Results for Simple Basic States with Nonzero Interior PV Gradients	Journal Of The Atmospheric Sciences		66	4	2009
Frame	Tom	Journal article	The 11-Yr Solar Cycle in ERA-40 Data: An Update to 2008	Journal Of Climate		23	8	2010
Gadian	Alan	Journal article	Demonstration of a Cut-Cell Representation of 3D Orography for Studies of Atmospheric Flows over Very Steep Hills	Monthly Weather Review		140	2	2012
Gadian	Alan	Journal article	Cloud-aerosol interactions for boundary layer stratocumulus in the Lagrangian Cloud Model.	Journal Of Geophysical Research-Atmospheres	D22214	115		2010
Gadian	Alan	Journal article	Global temperature stabilization via controlled albedo enhancement of low-level maritime clouds	Philosophical Transactions Of The Royal Society A: Mathematical, Physical And Engineering Sciences		366	1882	2008
Gadian	Alan	Journal article	The usability of 250 m resolution data from the UK Meteorological Office Unified Model as input data for a hydrological model.	Meteorological Applications		15	2	2008
Gietl	Johanna	Journal article	Estimation of the Contributions of Brake Dust, Tire Wear, and Resuspension to Nonexhaust Traffic Particles Derived from Atmospheric Measurements	Environmental Science And Technology		46		2012
Gietl	Johanna	Journal article	Identification of brake wear particles and derivation of a quantitative tracer for brake dust at a major road	Atmospheric Environment		44		2010
Gietl	Johanna	Journal article	Analysis of Traffic and Meteorology on Airborne Particulate Matter in Munster, Northwest Germany	Journal Of The Air And Waste Management Association		59		2009
Gietl	Johanna	Journal article	Source Identification of Size-Segregated Aerosol in Munster, Germany, by Factor Analysis	Aerosol Science And Technology		43		2009
Gray	Lesley	Journal article	Enhanced signature of solar variability in Eurasian winter climate	Geophysical Research Letters		37		2010
Gray	Lesley	Journal article	Solar forcing of winter climate variability in the Northern Hemisphere	Nature Geoscience		4	11	2011
Gray	Lesley	Journal article	Stratospheric communication of El Nino teleconnections to European winter	Journal Of Climate		22	15	2009
Gray	Lesley	Journal article	Coupled Model Intercomparison Project 5 (CMIP5) Simulations of Climate Following Volcanic Eruptions	Journal Of Geophysical Research-Atmospheres		117	D17105	2012
Gregory	Jonathan	Journal article	A review of uncertainties in global temperature projections over the twenty-first century.	Journal Of Climate		21		2008
Gregory	Jonathan	Journal article	Tropospheric adjustment induces a cloud component in CO2 forcing.	Journal Of Climate		21		2008
Gregory	Jonathan	Journal article	Transient climate response estimated from radiative forcing and observed temperature change.	Journal Of Geophysical Research-Atmospheres		113		2008

Gregory	Jonathan	Journal article	Quantifying carbon-cycle feedbacks.	Journal Of Climate		22		2009
Guilyardi	Eric	Journal article	Impact of resolving the diurnal cycle in an ocean-atmosphere GCM. Part 2: A diurnally coupled CGCM	Climate Dynamics		31		2008
Guilyardi	Eric	Journal article	Atmosphere feedbacks during ENSO in a coupled GCM with a modified atmospheric convection scheme	Journal Of Climate		22		2009
Guilyardi	Eric	Journal article	The role of atmosphere feedbacks during ENSO in the CMIP3 models. Part II: using AMIP runs to understand the heat flux feedback mechanisms	Climate Dynamics		37		2011
Guilyardi	Eric	Journal article	Using seasonal hindcasts to understand the origin of the equatorial cold tongue bias in CGCMs and its impact on ENSO	Climate Dynamics				2012
Hawkins	Ed	Journal article	The potential to narrow uncertainty in projections of regional precipitation change	Climate Dynamics		37	1-2	2011
Hawkins	Ed	Journal article	Time of emergence of climate signals	Geophysical Research Letters		39	1	2012
Hawkins	Ed	Journal article	Increasing influence of heat stress on French maize yields from the 1960s to the 2030s	Global Change Biology				2012
Hawkins	Ed	Journal article	Decadal predictability of the Atlantic Ocean in a coupled GCM: forecast skill and optimal perturbations using Linear Inverse Modelling	Journal Of Climate		22	14	2009
Hayden	Paul	Journal article	Wind tunnel measurements of pollutant turbulent fluxes in urban intersections	Atmospheric Environment		46		2012
Hayden	Paul	Journal article	Flow over cube arrays of different packing densities.	Journal Of Wind Engineering And Industrial Aerodynamics		95	8	2007
Hayden	Paul	Journal article	Modelling extreme concentrations from a source in a turbulent flow over a rough wall.	Atmospheric Environment		41	16	2007
Hayden	Paul	Journal article	Evaluation of CFD model predictions of local dispersion from an area source on a complex industrial site	International Journal Of Environment And Pollution		44		2011
Hill	Dan	Journal article	Assessing confidence in Pliocene sea surface temperatures to evaluate predictive models.	Nature Climate Change		2		2012
Hill	Dan	Journal article	Are there pre-Quaternary geological analogues for a future greenhouse warming?	Philosophical Transactions Of The Royal Society A: Mathematical, Physical And Engineering Sciences		369		2011
Hill	Dan	Journal article	Bathymetric controls on Pliocene North Atlantic and Arctic sea surface temperature and deepwater production.	Palaeogeography, Palaeoclimatology, Palaeoecology		309		2011
Hill	Dan	Journal article	Sensitivity of Pliocene ice sheets to orbital forcing.	Palaeogeography, Palaeoclimatology, Palaeoecology		309		2011
Hodson	Dan	Journal article	The impact of resolution on the adjustment and decadal variability of the Atlantic Meridional Overturning Circulation in a coupled climate model	Climate Dynamics		39	11	2012
Hodson	Dan	Journal article	Climate impacts of recent multidecadal changes in Atlantic Ocean Sea Surface Temperature: A multimodel comparison.	Climate Dynamics		34	7-8	2010
Hodson	Dan	Journal article	Climate response to basin-scale warming and cooling of the North Atlantic Ocean	Journal Of Climate		20	5	2007
Hodson	Dan	Journal article	Why the Western Pacific Subtropical High Has Extended Westward since the Late 1970s	Journal Of Climate		22	8	2009
Hopkins	Jim	Journal article	In Situ Measurements Of Isoprene And Monoterpenes Within A South-East Asian Tropical Rainforest	Atmospheric Chemistry And Physics		11		2011
Hopkins	Jim	Journal article	Direct Estimates Of Emissions From Megacity Of Lagos.	Atmospheric Chemistry And Physics		9		2009
Hopkins	Jim	Journal article	Intercomparison of oxygenated volatile organic compound measurements at the SAPHIR atmosphere simulation chamber	Journal Of Geophysical Research- Atmospheres	D20307	113	D20	2008

Hopkins	Jim	Journal article	Alkyl nitrates in outflow from North America over the North Atlantic during Intercontinental Transport of Ozone and Precursors 2004	Journal Of Geophysical Research-Atmospheres	D10S37	112		2007
Ingham	Trevor	Journal article	A flow-tube based laser-induced fluorescence instrument to measure OH reactivity in the troposphere	Atmospheric Measurement Techniques		2		2009
Ingham	Trevor	Journal article	Observations of OH and HO2 radicals over West Africa	Atmospheric Chemistry And Physics		10		2010
Ingham	Trevor	Journal article	Evidence of reactive iodine chemistry in the Arctic boundary layer	Journal Of Geophysical Research-Atmospheres	D20303	115		2010
Ingham	Trevor	Journal article	In situ detection of atomic and molecular iodine using Resonance and Off-Resonance Fluorescence by Lamp Excitation: ROFLEX	Atmospheric Measurement Techniques		4		2011
Joshi	Manoj	Journal article	Mechanisms for the land/sea warming contrast exhibited by simulations of climate change.	Climate Dynamics		30		2008
Joshi	Manoj	Journal article	Projections of when temperature change will exceed 2 degrees C above pre-industrial levels.	Nature Climate Change		1		2011
Joshi	Manoj	Journal article	Development and evaluation of an Earth-System model - HadGEM2.	Geoscientific Model Development		4		2011
Joshi	Manoj	Journal article	Dependence of the land-sea contrast in surface climate response on the nature of the forcing.	Geophysical Research Letters		35		2008
Klingaman	Nick	Journal article	The impact of finer-resolution air-sea coupling on the intraseasonal oscillation of the Indian monsoon	Journal Of Climate		24		2011
Klingaman	Nick	Journal article	On the drivers of inter-annual and decadal rainfall variability in Queensland	International Journal Of Climatology				2012
Klingaman	Nick	Journal article	The importance of high-frequency sea surface temperature variability to the intraseasonal oscillation of Indian monsoon rainfall	Journal Of Climate		21		2009
Klingaman	Nick	Journal article	A teleconnection between forced Great Plains snow cover and European winter climate	Journal Of Climate		21		2008
Lawrence	Bryan	Journal article	Describing Earth System Simulations with the Metaphor CIM	Geoscientific Model Development Discussions		5		2012
Lawrence	Bryan	Journal article	Global retrieval of ATSR cloud parameters and evaluation (GRAPE): dataset assessment	Atmospheric Chemistry And Physics		11		2011
Lawrence	Bryan	Journal article	Parameterisation of orographic cloud dynamics in a GCM	Climate Dynamics		28	6	2007
Lawrence	Bryan	Journal article	The GRAPE aerosol retrieval algorithm	Atmospheric Measurement Techniques		2		2009
Lee	James	Journal article	Year-Round Measurements Of Nitrogen Oxides And Ozone In The Tropical North Atlantic Marine Boundary Layer	Journal Of Geophysical Research-Atmospheres	D21302	114		2009
Lee	James	Journal article	Reactive Halogens In The Marine Boundary Layer (RHAMBLe): The Tropical North Atlantic Experiments	Atmospheric Chemistry And Physics		10		2010
Lee	James	Journal article	Measurements Of Nitrogen Oxides From Hudson Bay: Implications For NOx Release From Snow And Ice Covered Surfaces.	Atmospheric Environment		44		2010
Lee	James	Journal article	The atmospheric chemistry of trace gases and particulate matter emitted by different land uses in Borneo	Philosophical Transactions of the Royal Society B: Biological Sciences		366	1582	2011
Lewis,	Ally	Journal article	Extensive Halogen-Mediated Ozone Destruction Over The Tropical Atlantic Ocean	Nature		453		2008
Lewis,	Ally	Journal article	Chemical Composition Observed Over The Mid-Atlantic And The Detection Of Pollution Signatures Far From Source Regions	Journal Of Geophysical Research-Atmospheres	D10S39	112		2007
Lewis,	Ally	Journal article	Nitrogen Management Is Essential To Prevent Tropical Oil Palm Plantations From Causing Ground Level Ozone Pollution	Proceedings of the National Academy of Science of the USA (PNAS)		106		2009
Lewis,	Ally	Journal article	Microfabricated planar glass gas chromatography with photoionization detection	Journal Of Chromatography A		1217		2010

Mann	Graham	Journal article	The impact of dust on sulfate aerosol, CN and CCN during an East Asian dust storm.	Atmospheric Chemistry And Physics		10		2010
Mann	Graham	Journal article	Contribution of particle formation to global cloud condensation nuclei concentrations.	Geophysical Research Letters		35		2008
Mann	Graham	Journal article	Explaining global surface aerosol number concentrations in terms of primary emissions and particle formation .	Atmospheric Chemistry And Physics		10		2010
Mann	Graham	Journal article	Large methane releases lead to strong aerosol forcing and reduced cloudiness	Atmospheric Chemistry And Physics		11		2011
Marsham	John	Journal article	The importance of the representation of deep convection for modeled dust-generating winds over West Africa during summer.	Geophysical Research Letters	L16803	38		2011
Marsham	John	Journal article	Observations of Elevated Convection Initiation Leading to a Surface-Based Squall Line during 13 June IHOP 2002.	Monthly Weather Review		139	1	2011
Marsham	John	Journal article	Uplift of Saharan dust south of the intertropical discontinuity.	Journal Of Geophysical Research- Atmospheres	D21102	113		2008
Marsham	John	Journal article	Variable cirrus shading during initiation of CSIP IOP 5. I: Effects on the convection.	Quarterly Journal Of The Royal Meteorological Society		133	628	2007
Mobbs	Stephen	Journal article	The dependence of convection-related parameters on surface and boundary-layer conditions over complex terrain	Quarterly Journal Of The Royal Meteorological Society		137	51	2011
Mobbs	Stephen	Journal article	Processes driving deep convection over complex terrain: a multi-scale analysis of observations from Cops IOP 9c	Quarterly Journal Of The Royal Meteorological Society		137	51	2011
Mobbs	Stephen	Journal article	Mechanisms initiating deep convection over complex terrain during COPS	Meteorologische Zeitschrift		17	6	2008
Mobbs	Stephen	Journal article	Influence of lee waves on the near-surface flow downwind of the Pennines.	Quarterly Journal Of The Royal Meteorological Society		133	627	2007
Nicol	John	Journal article	Layers of insect echoes near a thunderstorm and implications for the interpretation of radar data in terms of airflow	Quarterly Journal Of The Royal Meteorological Society		137	656	2011
Nicol	John	Journal article	Multi-sensor observations of a wave beneath an impacting rear-inflow jet in an elevated mesoscale convective system	Quarterly Journal Of The Royal Meteorological Society		136	652	2010
Nicol	John	Journal article	Observations of dual slantwise circulations above a cool undercurrent in a mesoscale convective system	Quarterly Journal Of The Royal Meteorological Society		136	647	2010
Nicol	John	Journal article	Combination of mesoscale and synoptic mechanisms for triggering an isolated thunderstorm: Observational case study of CSIP IOP 1	Monthly Weather Review		135	11	2007
Norton	Emily	Journal article	High time resolution boundary layer description using combined remote sensing instruments	Annales Geophysicae		26	9	2008
Norton	Emily	Journal article	Convective inhibition beneath an upper-level PV anomaly	Quarterly Journal Of The Royal Meteorological Society		134	631	2008
Norton	Emily	Journal article	Application of the Aventech AIMMS20AQ airborne probe for turbulence measurements during the Convective Storm Initiation Project.	Atmospheric Chemistry And Physics		8	17	2008
Norton	Emily	Journal article	Lidar and radar measurements of the melting layer: observations of dark and bright band phenomena.	Atmospheric Chemistry And Physics		12	9	2012
Oram	David	Journal article	Atmospheric trends and radiative forcings of CF4 and C2F6 inferred from firn air	Environmental Science And Technology		41		2007
Oram	David	Journal article	Accelerating growth of HFC-227ea (1,1,1,2,3,3,3-heptafluoropropane) in the atmosphere	Atmospheric Chemistry And Physics		10		2010
Oram	David	Journal article	Long-term tropospheric trend of octafluorocyclobutane (c-C4F8 or PFC-318)	Atmospheric Chemistry And Physics		12		2012
Oram	David	Journal article	Emissions halted of the potent greenhouse gas SF5CF3	Atmospheric Chemistry And Physics		12		2012
Osborne	Tom	Journal article	Examining the interaction of growing crops with local climate using a coupled crop-climate model.	Journal Of Climate		22	6	2009
Osborne	Tom	Journal article	Variation in the global-scale impacts of climate change on crop productivity due to climate model uncertainty and adaptation.	Agricultural And Forest Meteorology				2012

Osborne	Tom	Journal article	Geographic distribution of plant pathogens in response to climate change.	Plant Physiology		60	1	2011
Osborne	Tom	Journal article	Calibration and bias correction of climate projections for crop modelling: an idealised case study over Europe.	Agricultural And Forest Meteorology				2012
Osprey	Scott	Journal article	The Climatology of the Middle Atmosphere in a Vertically Extended Version of the Met Office's Climate Model. Part II: Variability	Journal Of Atmospheric Science		67	11	2010
Osprey	Scott	Journal article	Stratospheric variability in 20th Century CMIP5 simulations of the Met Office Climate Model: High-top versus Low-top.	Journal Of Climate				2012
Osprey	Scott	Journal article	High Resolution Dynamics Limb Sounder measurements of gravity wave activity in the 2006 Arctic stratosphere.	Journal Of Geophysical Research-Atmospheres		115		2010
Osprey	Scott	Journal article	Multimodel climate and variability of the stratosphere	Journal Of Geophysical Research-Atmospheres		116		2011
Purvis	Ruth	Journal article	The influence of boreal forest fires on the global distribution of non-methane hydrocarbons	Atmospheric Chemistry And Physics Discussions		12		2012
Purvis	Ruth	Journal article	Statistical inference of OH concentrations and air mass dilution rates from successive observations of nonmethane hydrocarbons in single air masses	Journal Of Geophysical Research-Atmospheres	D10S40	112		2007
Purvis	Ruth	Journal article	HOx Observations Over West Africa During AMMA: Impact Of Isoprene And NOx	Atmospheric Chemistry And Physics		10		2010
Purvis	Ruth	Journal article	Investigating The Use Of Secondary Organic Aerosol As Seed Particles In Simulation Chamber Experiments	Atmospheric Chemistry And Physics		11		2011
Pyle	John	Journal article	The world avoided by the Montreal Protocol.	Geophysical Research Letters		35		2008
Pyle	John	Journal article	Impact of climate change on tropospheric ozone and its global budgets.	Atmospheric Chemistry And Physics		8	2	2008
Pyle	John	Journal article	The CO2 inhibition of terrestrial isoprene emission significantly affects future ozone projections.	Atmospheric Chemistry And Physics		9		2009
Pyle	John	Journal article	Multimodel estimates of intercontinental source-receptor relationships for ozone pollution.	Journal Of Geophysical Research-Atmospheres		114		2009
Read	Katie	Journal article	DMS And MSA Measurements In The Antarctic Boundary Layer: Impact Of BrO on MSA Production	Atmospheric Chemistry And Physics		8		2008
Read	Katie	Journal article	Intra-Annual Cycles Of NMVOCs In The Tropical Troposphere And Their Use For Interpreting Seasonal Variability In CO	Journal Of Geophysical Research-Atmospheres	D21303	114		2009
Read	Katie	Journal article	OH And Halogen Atom Influence On The Variability Of Non-Methane Hydrocarbons In The Antarctic Boundary Layer	Tellus Series B - Chemical And Physical Meteorology		59B		2007
Read	Katie	Journal article	Multiannual Observations of Acetone, Methanol, and Acetaldehyde in Remote Tropical Atlantic Air: Implications for Atmospheric OVOC Budgets and Oxidative Capacity	Environmental Science And Technology		in press		2012
Rickard	Andrew	Journal article	Gas phase precursors to anthropogenic secondary organic aerosol: detailed observations of 1,3,5-trimethylbenzene photooxidation	Atmospheric Chemistry And Physics		9		2009
Rickard	Andrew	Journal article	Distribution of gaseous and particulate organic composition during dark alpha-pinene ozonolysis	Atmospheric Chemistry And Physics		10		2010
Rickard	Andrew	Journal article	Total radical yields from tropospheric ethene ozonolysis	Physical Chemistry Chemical Physics		23		2011
Rickard	Andrew	Journal article	Oxidation capacity of the city air of Santiago, Chile	Atmospheric Chemistry And Physics		9		2009
Ricketts	Hugo	Journal article	A study of the arrival over the United Kingdom in April 2010 of the Eyjafjallajokull ash cloud using ground-based lidar and numerical simulations	Atmospheric Environment		48	S1	2012
Ricketts	Hugo	Journal article	Mechanisms responsible for the build-up of ozone over South East England during the August 2003 heatwave	Atmospheric Environment		45		2011

Ricketts	Hugo	Journal article	Airborne lidar observations of the 2010 Eyjafjallajokull volcanic ash plume.	Journal Of Geophysical Research-Atmospheres	D00U05	116		2011
Ricketts	Hugo	Journal article	Convection forced by a descending dry layer and low-level moist convergence	Tellus Series A-Dynamic Meteorology And Oceanography		61	2	2009
Russo	Maria	Journal article	Megacity ozone air quality under four alternative future scenarios.	Atmospheric Chemistry And Physics		12		2012
Russo	Maria	Journal article	Representation of tropical deep convection in atmospheric models - Part 2: Tracer transport.	Atmospheric Chemistry And Physics		11		2011
Russo	Maria	Journal article	Representation of tropical deep convection in atmospheric models - Part 1: Meteorology and comparison with satellite observations.	Atmospheric Chemistry And Physics		11		2011
Russo	Maria	Journal article	Modelling deep convection and its impacts on the tropical tropopause layer.	Atmospheric Chemistry And Physics		10		2010
Shaffrey	Len	Journal article	U.K. HiGEM: The New U.K. High-Resolution Global Environment Model—Model Description and Basic Evaluation	Journal Of Climate		22	8	2009
Shaffrey	Len	Journal article	Can climate models capture the structure of extratropical cyclones?	Journal Of Climate		23	7	2010
Shaffrey	Len	Journal article	Impact of Resolution on the Tropical Pacific Circulation in a Matrix of Coupled Models.	Journal Of Climate		22		2009
Shaffrey	Len	Journal article	Does the North Atlantic Oscillation show unusual persistence on intraseasonal timescales?	Geophysical Research Letters		36		2009
Smith	Robin	Journal article	The influence of eddy parameterizations on the transport of the Antarctic Circumpolar Current in coupled climate models	Ocean Modelling		52-53		2012
Smith	Robin	Journal article	A study of the sensitivity of ocean overturning circulation and climate to freshwater input in different regions of the North Atlantic.	Geophysical Research Letters		36		2009
Smith	Robin	Journal article	The last glacial cycle: transient simulations with an AOGCM.	Climate Dynamics		38		2012
Smith	Robin	Journal article	Bistability of the Atlantic overturning circulation in a global climate model and links to ocean freshwater transport.	Geophysical Research Letters		38		2011
Sutton	Rowan	Journal article	The potential to narrow uncertainty in regional climate predictions	Bulletin Of The American Meteorological Society		90	8	2009
Sutton	Rowan	Journal article	Importance of density-compensated temperature change for deep North Atlantic Ocean heat uptake	Nature Geoscience		5		2012
Sutton	Rowan	Journal article	Detection and Attribution of Atlantic salinity changes	Geophysical Research Letters		35	21	2008
Sutton	Rowan	Journal article	Causes of the rapid warming of the North Atlantic in the mid 1990s	Journal Of Climate		25	12	2012
Telford	Paul	Journal article	Observations of the eruption of the Sarychev volcano and simulations using the HadGEM2 climate model.	Journal Of Geophysical Research-Atmospheres		115		2010
Telford	Paul	Journal article	Effects of climate-induced changes in isoprene emissions after the eruption of Mount Pinatubo.	Atmospheric Chemistry And Physics		10		2010
Telford	Paul	Journal article	Reassessment of causes of ozone column variability following the eruption of Mount Pinatubo using a nudged CCM.	Atmospheric Chemistry And Physics		9		2009
Telford	Paul	Journal article	Technical Note: Description and assessment of a nudged version of the new dynamics Unified Model.	Atmospheric Chemistry And Physics		8		2008
Topping	Dave	Journal article	Surface tensions of multi-component mixed inorganic/organic aqueous systems of atmospheric significance: measurements, model predictions and importance for cloud activation predictions	Atmospheric Chemistry And Physics		7		2007
Topping	Dave	Journal article	An analytical solution to calculate bulk mole fractions for any number of components in aerosol droplets after considering partitioning to a surface layer	Geoscientific Model Development		3		2010
Topping	Dave	Journal article	Tight coupling of particle size, number and composition in atmospheric cloud droplet activation	Atmospheric Chemistry And Physics		12		2012

Topping	Dave	Journal article	Partial Derivative Fitted Taylor Expansion: An efficient method for calculating gas-liquid equilibria in atmospheric aerosol particles: 1. Inorganic compounds	Journal Of Geophysical Research-Atmospheres	D04304	114		2009
Turner	Andrew	Journal article	Subseasonal extremes of precipitation and active-break cycles of the Indian summer monsoon in a climate change scenario	Quarterly Journal Of The Royal Meteorological Society		135		2009
Turner	Andrew	Journal article	The effect of doubled CO2 and model basic state biases on the monsoon-ENSO system. I: Mean response and interannual variability	Quarterly Journal Of The Royal Meteorological Society		133		2007
Turner	Andrew	Journal article	A regime view of the North Atlantic Oscillation and its response to anthropogenic forcing	Journal Of Climate		23		2010
Turner	Andrew	Journal article	Uncertainties in future projections of extreme precipitation in the Indian monsoon region	Atmospheric Science Letters		10		2009
Vaughan	Geraint	Journal article	Gravity wave-induced perturbations in marine stratocumulus	Quarterly Journal Of The Royal Meteorological Society				2012
Vaughan	Geraint	Journal article	Wind profiler observations of a sting jet	Quarterly Journal Of The Royal Meteorological Society		135	640	2009
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Vaughan	Geraint	Journal article	Modulation of tropical convection by breaking Rossby waves.	Quarterly Journal Of The Royal Meteorological Society		135	638	2009
Vidale	Pier Luigi	Journal article	Investigating global tropical cyclone activity with a hierarchy of AGCMs: the role of model resolution	Journal Of Climate				2012
Vidale	Pier Luigi	Journal article	European summer climate variability in a heterogeneous multi-model ensemble	Climatic Change		81	1	2007
Vidale	Pier Luigi	Journal article	Modelling European winter wind storm losses in current and future climate	Climatic Change		101	3-4	2010
Vidale	Pier Luigi	Journal article	Towards an improved and more flexible representation of water stress in coupled photosynthesis-stomatal conductance models	Agricultural And Forest Meteorology		151	10	2011
Warwick	Nicola	Journal article	Kick-starting ancient warming	Nature Geoscience		2		2009
Warwick	Nicola	Journal article	Bromocarbons in the tropical marine boundary layer at the Cape Verde Observatory - measurements and modelling.	Atmospheric Chemistry And Physics		9	22	2009
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Weisheimer	Antje	Journal article	ENSEMBLES: A new multi-model ensemble for seasonal-to-annual predictions-Skill and progress beyond DEMETER in forecasting tropical Pacific SSTs	Geophysical Research Letters	L21711	36		2009
Weisheimer	Antje	Journal article	Assessment of representations of model uncertainty in monthly and seasonal forecast ensembles.	Geophysical Research Letters	L16703	38		2011
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Weisheimer	Antje	Journal article	TOWARD SEAMLESS PREDICTION Calibration of Climate Change Projections Using Seasonal Forecasts	Bulletin Of The American Meteorological Society		89		2008
Weller	Hilary	Journal article	Voronoi, Delaunay, and Block-Structured Mesh Refinement for Solution of the Shallow-Water Equations on the Sphere.	Monthly Weather Review		137	12	2009
Weller	Hilary	Journal article	Predicting mesh density for adaptive modelling of the global atmosphere.	Philosophical Transactions Of The Royal Society A: Mathematical, Physical And Engineering Sciences		367	1907	2009
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Whalley	Lisa	Journal article	Detection of iodine monoxide radicals in the marine boundary layer using laser induced fluorescence spectroscopy	Journal Of Atmospheric Chemistry		58		2007
Whalley	Lisa	Journal article	The chemistry of OH and HO ₂ radicals in the boundary layer over the tropical Atlantic Ocean	Atmospheric Chemistry And Physics		10		2010
Whalley	Lisa	Journal article	Simulating atmospheric composition over a South-East Asian tropical rainforest: performance of a chemistry box model	Atmospheric Chemistry And Physics		10		2010
Williams	Paul	Journal article	Airborne measurements of the spatial distribution of aerosol chemical composition across Europe and evolution of the organic fraction	Atmospheric Chemistry And Physics		10		2010
Williams	Paul	Journal article	Enhancement of the aerosol direct radiative effect by semi-volatile aerosol components: airborne measurements in North-Western Europe	Atmospheric Chemistry And Physics		10		2010
Williams	Paul	Journal article	Secondary organic aerosol from biogenic VOCs over West Africa during AMMA	Atmospheric Chemistry And Physics		9		2009
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Woolnough	Steve	Journal article	The role of the ocean in the Madden-Julian Oscillation: Implications for MJO prediction	Quarterly Journal Of The Royal Meteorological Society		133		2007
Woolnough	Steve	Journal article	Modelling suppressed and active convection. Comparing a numerical weather prediction, cloud-resolving and single column model	Quarterly Journal Of The Royal Meteorological Society		133		2007
Woolnough	Steve	Journal article	Impact of resolving the diurnal cycle in an ocean-atmosphere GCM, Part 1: a diurnally forced GCM	Climate Dynamics		29		2007
Woolnough	Steve	Journal article	The effects of explicit versus parameterized convection on the MJO in a large-domain high-resolution tropical case study. Part I: Characterization of large-scale organization and propagation	Journal Of The Atmospheric Sciences				2012
Yang	Gui-Ying	Journal article	Convectively coupled equatorial waves: Part I: Horizontal and vertical structures	Journal Of The Atmospheric Sciences		64	10	2007
Yang	Gui-Ying	Journal article	Convectively coupled equatorial waves: Part II: Propagation characteristics	Journal Of The Atmospheric Sciences		64	10	2007
Yang	Gui-Ying	Journal article	Convectively coupled equatorial waves: Part III: Synthesis structures and their forcing and evolution	Journal Of The Atmospheric Sciences		64	10	2007
Yang	Gui-Ying	Journal article	The Influence of the QBO on the propagation of equatorial waves into the stratosphere	Journal Of The Atmospheric Sciences		69		2012
Yang	Xin	Journal article	Tropospheric bromine chemistry: implications for present and pre-industrial ozone and mercury.	Atmospheric Chemistry And Physics		12		2012
Yang	Xin	Journal article	Global atmospheric model for mercury including oxidation by bromine atoms.	Atmospheric Chemistry And Physics		10		2010
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