

EVALUATION OF NERC CENTRES 2013

RESEARCH EXCELLENCE SUBMISSION: BRITISH ANTARCTIC SURVEY

Research outputs submitted by eligible staff. Some staff submitted less than 4 as they were eligible for a reduction (e.g. part-time, long periods of leave)

Surname	First name	Output type	Title	Volume title	Article number	Volume number	Issue number	Year	End
Anderson	Phil	Journal article	Vertical structure of Antarctic tropospheric ozone depletion events: characteristics and broader implications	Atmospheric Chemistry and Physics	7775-7794	10		2010	
Anderson	Phil	Journal article	On the critical Richardson number in stably stratified turbulence	Atmospheric Science Letters	65-69	8		2007	
Anderson	Phil	Journal article	Record low surface air temperature at Vostok station, Antarctica	Journal of Geophysical Research	D24102	114		2009	
Anderson	Phil	Journal article	Measurement of Prandtl Number as a function of Richardson Number avoiding self-correlation	Boundary-Layer Meteorology	345-362	131		2009	
Arthern	Robert	Journal article	Extensive dynamic thinning on the margins of the Greenland and Antarctic ice sheets	Nature	971-975	461		2009	
Arthern	Robert	Journal article	In situ measurements of Antarctic snow compaction compared with predictions of models	Journal of Geophysical Research-Earth Surface	F03011	115	F3	2010	
Arthern	Robert	Journal article	Initialization of ice-sheet forecasts viewed as an inverse Robin problem	Journal of Glaciology	527-533	56	197	2010	
Arthern	Robert	Journal article	Frequency response of ice streams	Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences	3285-3310	468	2147	2012	
Atkinson	Angus	Journal article	A re-appraisal of the total biomass and annual production of Antarctic krill.	Deep-Sea Research Part I: Oceanographic Research Papers	727-740	56	5	2009	
Atkinson	Angus	Journal article	Seabed foraging by Antarctic krill: Implications for stock assessment, benthic-pelagic coupling, and the vertical transfer of iron	Limnology and Oceanography	1411-1428	56	4	2011	
Atkinson	Angus	Journal article	Rapid warming of the ocean around South Georgia, Southern Ocean, during the 20th century: forcings, characteristics and implications for lower trophic levels	Deep-Sea Research Part I: Oceanographic Research Papers	1218-1228	55	10	2008	
Atkinson	Angus	Journal article	Oceanic circumpolar habitats of Antarctic krill	Marine Ecology Progress Series	1-23	362		2008	
Barnes	David	Journal article	Reduced survival of Antarctic benthos linked to climate-induced iceberg scouring	Nature Climate Change	365-368	1	7	2011	
Barnes	David	Journal article	Scott's collections help reveal accelerating marine life growth in Antarctica	Current Biology	R147-R148	21	4	2011	
Barnes	David	Journal article	Accumulation and fragmentation of plastic debris in global environments.	Philosophical Transactions of the Royal Society B: Biological Sciences	1985-1998	364	1526	2009	
Barnes	David	Journal article	Ice Scour Disturbance in Antarctic Waters	Science	371	321	5887	2008	
Chisham	Gareth	Journal article	A decade of the Super Dual Auroral Radar Network (SuperDARN): Scientific achievements, new techniques and future directions	Surveys in Geophysics	33-109	28	1	2007	
Chisham	Gareth	Journal article	Remote sensing of the spatial and temporal structure of magnetopause and magnetotail reconnection from the ionosphere.	Reviews of Geophysics	RG1004	46	1	2008	
Chisham	Gareth	Journal article	Mapping ionospheric backscatter measured by the SuperDARN HF radars – Part 1: A new empirical virtual height model	Annales Geophysicae	823-841	26	4	2008	
Chisham	Gareth	Journal article	Spatial distribution of average vorticity in the high-latitude ionosphere and its variation with interplanetary magnetic field direction and season.	Journal of Geophysical Research	A09301	114	A9	2009	
Clark	Melody	Journal article	Antarctic marine molluscs do have an HSP70 heat shock response.	Cell Stress and Chaperones	39-49	13	1	2008	
Clark	Melody	Journal article	Insights into shell deposition in the Antarctic bivalve <i>Laternula elliptica</i> : gene discovery in the mantle transcriptome using 454 pyrosequencing.	BMC Genomics	362	11		2010	
Clark	Melody	Journal article	Surviving the cold: molecular analyses of insect cryoprotective dehydration in the Arctic springtail <i>Megaphorura arctica</i> (Tullberg).	BMC Genomics	328	10		2009	

Clark	Melody	Journal article	Antarctic krill 454 pyrosequencing reveals chaperone and stress transcriptome.	PLoS One	e15919	6	1	2011
Clilverd	Mark	Journal article	Temporal variability of the descent of high-altitude NOx inferred from ionospheric data	Journal of Geophysical Research	A09307	112		2007
Clilverd	Mark	Journal article	Geomagnetic activity and polar surface air temperature variability	Journal of Geophysical Research	A10312	114		2009
Clilverd	Mark	Journal article	Ground-based estimates of outer radiation belt energetic electron precipitation fluxes into the atmosphere	Journal of Geophysical Research	A12304	115		2010
Clilverd	Mark	Journal article	First evidence of mesospheric hydroxyl response to electron precipitation from the radiation belts	Journal of Geophysical Research	D07307	116		2011
Convey	Pete	Journal article	Antarctic biodiversity	Science	1877-1878	317	5846	2007
Convey	Peter	Journal article	Spatial and temporal variability across life's hierarchies in the terrestrial Antarctic.	Philosophical Transactions of the Royal Society B: Biological Sciences	2307-2331	362	1488	2007
Convey	Peter	Journal article	Antarctic terrestrial life - challenging the history of the frozen continent?	Biological Reviews	103-117	83	2	2008
Convey	Peter	Journal article	Challenges to the future conservation of the Antarctic.	Science	158-159	337	6091	2012
Crame	Alistair	Journal article	Evolutionary dynamics at high latitudes: speciation and extinction in polar marine faunas.	Philosophical Transactions of the Royal Society B: Biological Sciences	3655-3666	365	1558	2010
Crame	Alistair	Journal article	Echinoderm faunas from the Lower Cretaceous (Aptian – Albian) of Alexander Island, Antarctica	Palaeontology	305-324	55	2	2012
Crame	Alistair	Journal article	First fossil sponge from Antarctica and its paleobiogeographical significance	Journal of Paleontology	48-57	85	1	2011
Ferraccioli	Fausto	Journal article	Widespread persistent thickening of the East Antarctic ice sheet by freezing from the base	Science	1592-1595	331	6024	2011
Ferraccioli	Fausto	Journal article	East Antarctic rifting triggers uplift of the Gamburtsev Mountains	Nature	388-392	479	7373	2011
Ferraccioli	Fausto	Journal article	Steep reverse bed slope at the grounding line of The Weddell Sea sector in West Antarctica	Nature Geoscience	393-296	5		2012
Ferraccioli	Fausto	Journal article	Aeromagnetic exploration over the East Antarctic Ice Sheet: a new view of the Wilkes Subglacial Basin	Tectonophysics	62-77	478	1-2	2009
Fielding	Sophie	Journal article	Southern Ocean deep-water carbon export enhanced by natural iron fertilization.	Nature	577-580	457	7229	2009
Fielding	Sophie	Journal article	Description and quantification of pteropod shell dissolution: A sensitive bioindicator of ocean acidification.	Global Change Biology	2378–2388	18	7	2012
Fielding	Sophie	Journal article	Variability and predictability of Antarctic krill swarm structure.	Deep-Sea Research Part I: Oceanographic Research Papers	1994-2012	56	11-12	2009
Fielding	Sophie	Journal article	Acoustic determination of the distribution of fish and krill across the Scotia Sea in spring 2006, summer 2008 and autumn 2009.	Deep Sea Research Part II: Topical Studies in Oceanography	173-188	59-60		2012
Flowerdew	Michael	Journal article	Inferring sites of subglacial erosion using the Pb isotopic composition of ice-rafted feldspar: Examples from the Weddell Sea, Antarctica	Geology				2012
Flowerdew	Michael	Journal article	Combined U-Pb geochronology and Hf isotope geochemistry of detrital zircons from Early Palaeozoic sediments, Ellsworth Whitmore Mountains Block, Antarctica	Bulletin of the Geological Society of America	275-288	119	1-2	2007
Forcada	Jaume	Journal article	Responses of Antarctic pack-ice seals to environmental change and increasing krill fishing.	Biological Conservation	40-50	149	1	2012
Forcada	Jaume	Journal article	Penguin responses to climate change in the Southern Ocean.	Global Change Biology	1618-1630	15	7	2009
Forcada	Jaume	Journal article	Life history buffering in Antarctic mammals and birds against changing patterns of climate and environmental variation.	Global Change Biology	2473-2488	14	11	2008
Forcada	Jaume	Journal article	Female fur seals show active choice for males that are heterozygous and unrelated.	Nature	912-914	445	7130	2007

Franzke	Christian	Journal article	An applied mathematics perspective on stochastic modelling for climate.	Philosophical Transactions Of The Royal Society A: Mathematical, Physical And Engineering Sciences	2429-2455	366	1875	
Franzke	Christian	Journal article	Normal forms for reduced stochastic climate models.	Proceedings of the National Academy of Science of the USA (PNAS)	3649-3653	106	10	2009
Franzke	Christian	Journal article	On the Persistence and Predictability Properties of North Atlantic Climate Variability	Journal of Climate	466-472	24	2	2011
Franzke	Christian	Journal article	Nonlinear Trends, Long-Range Dependence, and Climate Noise Properties of Surface Temperature	Journal of Climate	4172-4183	25	12	
Freeman	Mervyn	Journal article	No evidence for externally triggered substorms based on superposed epoch analysis of IMF Bz	Geophysical Research Letters	L21101	36	21	2009
Freeman	Mervyn	Journal article	IMF clock angle control of multifractality in ionospheric velocity fluctuations	Geophysical Research Letters	L19102	36	19	2009
Freeman	Mervyn	Journal article	On the non-Gaussian nature of ionospheric vorticity	Geophysical Research Letters	L12103	37	12	2010
Freeman	Mervyn	Journal article	Winds and tides in the mid-latitude Southern Hemisphere upper mesosphere recorded with the Falkland Islands SuperDARN radar	Annales Geophysicae	1985-1996	29	11	2011
Griffiths	Huw	Journal article	Towards a generalised biogeography of the Southern Ocean Benthos.	Journal of Biogeography	162-177	36	1	2009
Gudmundsson	Hilmar	Journal article	Tides and the flow of Rutford ice stream, west Antarctica	Journal of Geophysical Research-Earth Surface	F04007	112	F4	2007
Gudmundsson	Hilmar	Journal article	Analytical solutions for the surface response to small amplitude perturbations in boundary data in the shallow-ice-stream approximation	The Cryosphere	77-93	2		2008
Gudmundsson	Hilmar	Journal article	Increased rate of acceleration on Pine Island Glacier strongly coupled to changes in gravitational driving stress	The Cryosphere	125-131	3		2011
Gudmundsson	Hilmar	Journal article	The stability of grounding lines on retrograde slopes	The Cryosphere	1497-1505	6		2012
Hill	Simeon	Journal article	A foodweb model to explore uncertainties in the South Georgia shelf pelagic ecosystem.	Deep Sea Research Part II: Topical Studies in Oceanography	237-252	59-60		2012
Hill	Simeon	Journal article	Model uncertainty in the ecosystem approach to fisheries.	Fish and Fisheries	315-336	8	4	2007
Hill	Simeon	Journal article	Antarctic macrozooplankton of the southwest Atlantic sector and Bellingshausen Sea: Baseline historical distributions (Discovery Investigations, 1928–1935) related to temperature and food, with projections for subsequent ocean warming.	Deep Sea Research Part II: Topical Studies in Oceanography	130-146	59-60		2012
Hill	Simeon	Journal article	A compilation of parameters for ecosystem dynamics models of the Scotia Sea - Antarctic Peninsula region.	CCAMLR Science	1-25	14		2007
Hillenbrand	Claus-Dieter	Journal article	Exploring biological constraints on the glacial history of Antarctica	Quaternary Science Reviews	3035-3048	28	27-28	2009
Hillenbrand	Claus-Dieter	Journal article	Volcanic time-markers for Marine Isotopic Stages 6 and 5 in Southern Ocean sediments and Antarctic ice cores: implications for tephra correlations between palaeoclimatic records	Quaternary Science Reviews	518-540	27	5-6	2008
Hillenbrand	Claus-Dieter	Journal article	Grounding-line retreat of the West Antarctic Ice Sheet from inner Pine Island Bay.	Geology		41		2012
Hillenbrand	Claus-Dieter	Journal article	Ice-stream stability on a reverse bed slope	Nature Geoscience	799-802	5		2012
Hindmarsh	Richard	Journal article	Thin-Film Flows with Wall Slip: An Asymptotic Analysis of Higher Order Glacier Flow Models	Quarterly Journal of Mechanics and Applied Mathematics	73-114	63	1	2010
Hindmarsh	Richard	Journal article	Consistent generation of ice-streams via thermo-viscous instabilities modulated by membrane stresses	Geophysical Research Letters	L06502	36	6	2009
Hindmarsh	Richard	Journal article	An observationally validated theory of viscous flow dynamics at the ice-shelf calving front	Journal of Glaciology	375-387	58	208	2012
Hindmarsh	Richard	Journal article	In-situ quantification of ice rheology and direct measurement of the Raymond Effect at Summit, Greenland using a phase-sensitive radar	Geophysical Research Letters	L24503	38	24	2011

Hodgson	Dominic A	Journal article	Exploring former subglacial Hodgson Lake.	Quaternary Science Reviews	2310-2325	28	23-24	2009
Hodgson	Dominic A	Journal article	High resolution reconstruction of southwest Atlantic sea-ice and its role in the carbon cycle during marine isotope stages 3 and 2.	Palaeoceanography	PA3217	27	3	2012
Hodgson	Dominic A	Journal article	Holocene glacial and climate history of Prince Gustav Channel, northeastern Antarctic Peninsula.	Quaternary Science Reviews	93-111	31		2012
Hodgson	Dominic A	Journal article	Lake high stands in the Pensacola Mountains and Shackleton Range 4300-2250 cal. yr BP, evidence of a warm climate anomaly in the interior of Antarctica.	The Holocene	Online Nov 6, 2012			2012
Holland	Paul	Journal article	Wind-driven trends in Antarctic sea ice motion	Nature Geoscience	872-875	5	12	2012
Holland	Paul	Journal article	The Response of Ice Shelf Basal Melting to Variations in Ocean Temperature	Journal of Climate	2558-2572	21	11	2008
Horne	Richard	Journal article	Electron acceleration in the Van Allen radiation belts by fast magneto-sonic waves	Geophysical Research Letters	L17107	34		2007
Horne	Richard	Journal article	Plasma Astrophysics: Acceleration of killer electrons,	Nature Physics	590-591	3		2007
Horne	Richard	Journal article	Gyro-resonant electron acceleration at Jupiter	Nature Physics	301-304	4		2008
Horne	Richard	Journal article	Energetic electron precipitation from the outer radiation belt during geomagnetic storms	Geophysical Research Letters	L19104	36		2009
Jarvis	Martin	Journal article	An empirical model of the Earth's horizontal wind fields: HWM07	Journal Of Geophysical Research	A12304	113	A12	2008
Jarvis	Martin	Journal article	Quasi-biennial oscillation influence on long-period planetary waves in the Antarctic upper mesosphere	Journal Of Geophysical Research	D09109	114		2009
Jarvis	Martin	Journal article	A new perspective on the longitudinal variability of the semidiurnal tide	Geophysical Research Letters	L14804	37		2010
Jarvis	Martin	Journal article	The ineffectiveness of Joule heating in the stratosphere	Journal Of Atmospheric and Solar-Terrestrial Physics	1110-1113	72		2010
Jenkins	Adrian	Journal article	Oceanic heat transport onto the Amundsen Sea shelf through a submarine glacial trough	Geophysical Research Letters	L02602	34	2	2007
Jenkins	Adrian	Journal article	Modelling Circumpolar Deep Water intrusions on the Amundsen Sea continental shelf, Antarctica	Geophysical Research Letters	L18602	35	18	2008
Jenkins	Adrian	Journal article	Observations beneath Pine Island Glacier in West Antarctica and implications for its retreat	Nature Geoscience	468 - 472	3	7	2010
Jenkins	Adrian	Journal article	Stronger ocean circulation and increased melting under Pine Island Glacier ice shelf	Nature Geoscience	519-523	4	8	2011
Johnson	Joanne	Journal article	Six million years of glacial history recorded in volcanic lithofacies of the James Ross Island Volcanic Group, Antarctic Peninsula	Palaeogeography Palaeoclimatology Palaeoecology	122-148	260	1-2	2008
Johnson	Joanne	Journal article	First exposure ages from the Amundsen Sea embayment, West Antarctica: The late quaternary context for recent thinning of Pine Island, Smith, and Pope Glaciers	Geology	223-226	36	3	2008
Jones	Anna E	Journal article	Boundary layer halogens in coastal Antarctica	Science	348-351	317	5836	2007
Jones	Anna E	Journal article	BrO, blizzards, and drivers of polar tropospheric ozone depletion events	Atmospheric Chemistry and Physics	4639-4652	9		2009
Jones	Anna E	Journal article	Reconciling the changes in atmospheric methane sources and sinks between the Last Glacial Maximum and the pre-industrial era	Geophysical Research Letters	L23804	38		2011
King	Edward	Journal article	Formation of mega-scale glacial lineations observed beneath a West Antarctic ice stream	Nature Geoscience	585-588	2	8	2009
King	Edward	Journal article	Seismic and radar observations of subglacial bed forms beneath the onset zone of Rutford Ice Stream Antarctica	Journal of Glaciology	665-672	53	183	2007
King	Edward	Journal article	Glacier-bed characteristics of midtre Lovenbreen, Svalbard, from high-resolution seismic and radar surveying	Journal of Glaciology	145-156	54	184	2008

King	Edward	Journal article	Inland thinning of West Antarctic Ice Sheet steered along subglacial rifts	Nature	468-471	487	7408	2012
King	John	Journal article	Sensitivity of modelled atmospheric circulation to the representation of stable boundary layer processes	Geophysical Research Letters	L06708	34		2007
King	John	Journal article	Airborne measurements in the stable boundary layer over the Larsen Ice Shelf, Antarctica	Boundary-Layer Meteorology	413-428	127(3)		2008
King	John	Journal article	The new UK high resolution global environment model. Model description and evaluation.	Journal of Climate	1861-1896	22		2009
King	John	Journal article	Analysis of a rapid sea ice retreat event in the Bellingshausen Sea	Journal of Geophysical Research	C12030	115		2010
Lachlan-Cope	Tom	Journal article	Antarctic winter tropospheric warming—the potential role of polar stratospheric clouds, a sensitivity study.	Atmospheric Science Letters	262–266	10		2009
Lachlan-Cope	Tom	Journal article	Effects of tropical sea surface temperature (SST) errors on the Antarctic atmospheric circulation of HadCM3	Geophysical Research Letters	L05809	34		2007
Lachlan-Cope	Tom	Journal article	Convective heat transfer over thin ice covered coastal polynyas,	Journal of Geophysical Research	C10051	115		2010
Lachlan-Cope	Tom	Journal article	In-situ aircraft observations of ice concentrations within clouds over the Antarctic Peninsula and Larsen Ice Shelf	Atmospheric Chemistry and Physics	11275-11294	12		2012
Larter	Rob	Journal article	Subglacial bedforms reveal complex basal regime in a zone of paleo-ice stream convergence, Amundsen Sea embayment, West Antarctica	Geology	411-414	37	5	2009
Larter	Rob	Journal article	Flow and retreat of the Late Quaternary Pine Island-Thwaites palaeo-ice stream, West Antarctica	Quaternary Science Reviews	2774-2793	28	25-26	2009
Larter	Rob	Journal article	Late Quaternary grounded ice extent in the Filchner Trough, Weddell Sea, Antarctica: new marine geophysical evidence	Quaternary Science Reviews	111-122	53		2012
Larter	Rob	Journal article	Southern Weddell Sea shelf edge geomorphology: Implications for gully formation by the overflow of high-salinity water	Journal of Geophysical Research-Earth Surface	F04121	117	F4	2012
Leat	Phillip	Journal article	Growth and mass wasting of volcanic centers in the northern South Sandwich arc, revealed by new multibeam mapping.	Marine Geology	110-126	275	1-4	2010
Leat	Phillip	Journal article	Subduction erosion of forearc mantle wedge implicated in the genesis of the South Sandwich Islands (SSI) arc: evidence from boron isotope systematics.	Earth and Planetary Science Letters	275-284	301	1-2	2011
Leat	Phillip	Journal article	Mineral stability in peralkaline silicic rocks; information from trachytes of the Menengai volcano, Kenya.	Lithos	553-568	125	1-2	2011
Leat	Phillip	Journal article	The Annandagstoppane granite, East Antarctica: evidence for Archaean intracrustal recycling in the Kaapvaal-Grunehogna Craton from zircon O and Hf isotopes.	Journal of Petrology	2277-2301	51	11	2010
Linse	Katrin	Journal article	The discovery of new deep-sea hydrothermal vent communities in the Southern Ocean and implications for biogeography.	PLoS Biology	e1001234	10		2012
Linse	Katrin	Journal article	First insights into the biodiversity and biogeography of the Southern Ocean deep sea.	Nature	307-311	447	7142	2007
Linse	Katrin	Journal article	Is the Scotia Sea a centre of Antarctic marine diversification? Some evidence of cryptic speciation in the circum-Antarctic bivalve <i>Lissarca notorcadensis</i> (Arcoidea: Philobryidae)	Polar Biology	1059-1068	30	8	2007
Lu	Hua	Journal article	Possible solar wind effect on the northern annular mode and northern hemispheric circulation during winter and spring	Journal Of Geophysical Research	D23104	113		2008
Lu	Hua	Journal article	Decadal-scale changes in the effect of the QBO on the northern stratospheric polar vortex	Journal Of Geophysical Research	D10114	113		2008
Lu	Hua	Journal article	Life cycle of the QBO-modulated 11-year solar cycle signals in the Northern Hemispheric winter	Quarterly Journal of the Royal Meteorological Society	1030-1043	135		2009
Marshall	Gareth	Journal article	Human influence on extratropical Southern Hemisphere summer precipitation.	Geophysical Research Letters	L23711	39		2012
Marshall	Gareth	Journal article	Half-century seasonal relationships between the Southern Annular Mode and Antarctic temperatures.	International Journal of Climatology	373–383	27		2007
Marshall	Gareth	Journal article	Analysis of a regional change in the sign of the SAM-temperature relationship in Antarctica.	Climate Dynamics	277–287	36		2011

Marshall	Gareth	Journal article	Unusual Southern Hemisphere tree growth patterns induced by changes in the Southern Annular Mode.	Nature Geoscience	793–798	5		2012
Meredith	Michael	Journal article	Variations in behaviour and condition of a Southern Ocean top predator in relation to in situ oceanographic conditions	Proceedings of the National Academy of Science of the USA (PNAS)	13705–13710	104	34	2007
Meredith	Michael	Journal article	Southern Ocean frontal structure and sea ice formation rates revealed by elephant seals	Proceedings of the National Academy of Science of the USA (PNAS)	11634–11639	105	33	2008
Meredith	Michael	Journal article	Sensitivity of the overturning in the Southern Ocean to decadal changes in wind forcing	Journal of Climate	99–110	25	1	2012
Meredith	Nigel	Journal article	Global model of lower band and upper band chorus from multiple satellite observations	Journal of Geophysical Research	A10225	117		2012
Meredith	Nigel	Journal article	Energetic electron precipitation during high-speed solar wind stream driven storms	Journal of Geophysical Research	A05223	116		2011
Meredith	Nigel	Journal article	The unexpected origin of plasmaspheric hiss from discrete chorus emissions	Nature		452		2008
Meredith	Nigel	Journal article	Relativistic electron loss timescales in the slot region	Journal of Geophysical Research	A03222	114		2009
Meredith	Michael	Journal article	Eddy Heat Flux in the Southern Ocean: Response to Variable Wind Forcing	Journal of Climate	608–620	21	4	2008
Morley	Simon	Journal article	Estimating Long-Term Survival Temperatures at the Assemblage Level in the Marine Environment: Towards Macrophysiology	PloS One	e34655	7	4	2012
Morley	Simon	Journal article	Upper temperature limits of tropical marine ectotherms: global warming implications.	PLoS One	e29340	6	12	2011
Morley	Simon	Journal article	Hypoxia tolerance associated with activity reduction is a key adaptation for <i>Laternula elliptica</i> seasonal energetics.	Oecologia	29-36	153	1	2007
Morley	Simon	Journal article	Geographical variation in thermal tolerance within Southern Ocean marine ectotherms.	Comparative Biochemistry and Physiology	154-161	153	2	2009
Mulvaney	Robert	Journal article	Recent Antarctic Peninsula warming relative to Holocene climate and ice-shelf history	Nature	141-144	489		2012
Mulvaney	Robert	Journal article	Environmental signals in a highly resolved ice core from James Ross Island, Antarctica,	Journal Of Geophysical Research-Atmospheres	D20116	116	D20	2011
Mulvaney	Robert	Journal article	Ice core records as sea ice proxies: An evaluation from the Weddell Sea region of Antarctica	Journal Of Geophysical Research-Atmospheres	D15101	112	D15	2007
Mulvaney	Robert	Journal article	Evidence for a CO increase in the SH during the 20th century based on firn air samples from Berkner Island, Antarctica	Atmospheric Chemistry and Physics	295-308	7		2007
Murphy	Eugene	Journal article	Revisiting Levy flight search patterns of wandering albatrosses, bumblebees and deer.	Nature	1044-1048	449	7165	2007
Murphy	Eugene	Journal article	Climatically driven fluctuations in Southern Ocean ecosystems.	Proceedings of the Royal Society B: Biological Sciences	3057-3067	274	1629	2007
Murphy	Eugene	Journal article	Developing integrated models of Southern Ocean food webs: including ecological complexity, accounting for uncertainty and the importance of scale.	Progress in Oceanography	74-92	102	S1	2012
Murphy	Eugene	Journal article	Global seabird response to forage fish depletion - one-third for the birds.	Science	1703-1706	334	6063	2011
Newnham	David	Journal article	Direct observations of nitric oxide produced by energetic electron precipitation into the Antarctic middle atmosphere	Geophysical Research Letters	L20104	38		2011
Newnham	David	Journal article	The GEISA spectroscopic database: Current and future archive for Earth and planetary atmosphere studies	Journal of Quantitative Spectroscopy and Radiative Transfer	1043-1059	109 (6)		2008
Newnham	David	Journal article	Pulsed terahertz attenuated total reflection spectroscopy	Applied Spectroscopy	394-398	62 (4)		2008
Newnham	David	Journal article	The effect of energetic electron precipitation on middle mesospheric night-time ozone during and after a moderate geomagnetic storm	Geophysical Research Letters	L21811	39		2012
Newsham	Kevin	Journal article	A meta-analysis of plant responses to dark septate root endophytes.	New Phytologist	783-793	190	3	2011
Newsham	Kevin	Journal article	Vascular plant success in a warming Antarctic may be due to efficient nitrogen acquisition.	Nature Climate Change	50-53	1	1	2011

Newsham	Kevin	Journal article	Responses of plants in polar regions to UV-B exposure: a meta-analysis.	Global Change Biology	2574-2589	15	11	2009
Newsham	Kevin	Journal article	Patterns of bacterial diversity across a range of Antarctic terrestrial habitats.	Environmental Microbiology	2670-2682	9	11	2007
Nicholls	Keith	Journal article	Wintertime ocean conditions over the southern Weddell Sea continental shelf, Antarctica	Geophysical Research Letters	L21605	35	21	2008
Nicholls	Keith	Journal article	Influence of tides on melting and freezing beneath Filchner-Ronne Ice Shelf, Antarctica	Geophysical Research Letters	L06601	38	6	2011
Nicholls	Keith	Journal article	Ocean circulation beneath Larsen C Ice Shelf, Antarctica from in situ observations	Geophysical Research Letters	L19608	39	19	2012
Nicholls	Keith	Journal article	Seasonal inflow of warm water onto the southern Weddell Sea continental shelf, Antarctica	Geophysical Research Letters	L17601	39	17	2012
Orr	Andrew	Journal article	Possible dynamical mechanisms for Southern Hemisphere climate change due to the ozone hole	Journal of the Atmospheric Sciences	2917-2932	69		2012
Orr	Andrew	Journal article	Strong dynamical modulation of the cooling of the polar stratosphere associated with the Antarctic ozone hole	Journal of Climate	662-668	26		2013 (but see Notes)
Orr	Andrew	Journal article	Improved middle atmosphere climate and forecasts in the ECMWF model through a non-orographic gravity wave drag parametrization	Journal of Climate	5905-5926	23		2010
Orr	Andrew	Journal article	Characteristics of summer airflow over the Antarctic Peninsula and its response to recent strengthening of westerly circumpolar winds	Journal of the Atmospheric Sciences	1396-1413	65		2008
Pearce	David	Journal article	Patterns of marine bacterioplankton biodiversity in the surface waters of the Scotia Arc, Southern Ocean.	FEMS Microbiology Ecology	452-468	80	2	2012
Pearce	David	Journal article	Clean access, measurement, and sampling of Ellsworth Subglacial Lake: a method for exploring deep Antarctic subglacial lake environments	Reviews of Geophysics	RG1003	50	1	2012
Pearce	David	Journal article	High levels of spatial heterogeneity in the biodiversity of soil prokaryotes on Signy Island, Antarctica	Soil Biology and Biogeochemistry	601-610	42	4	2012
Pearce	David	Journal article	Metagenomic analysis of a southern maritime Antarctic soil	Frontiers in Microbiology	403	3		2012
Peck	Lloyd	Journal article	Negative feedback in the cold: ice retreat produces new carbon sinks in Antarctica.	Global Change Biology	2614-2623	16	9	2010
Peck	Lloyd	Journal article	Animal temperature limits and ecological relevance: effects of size, activity and rates of change.	Functional Ecology	248-256	23	2	2009
Peck	Lloyd	Journal article	Marine invertebrate skeleton size varies with latitude, temperature and carbonate saturation: implications for global change and ocean acidification.	Global Change Biology	3026-3038	18	10	2012
Peck	Lloyd	Journal article	One hundred questions of importance to the conservation of global biological diversity.	Conservation Biology	557-567	23	3	2009
Phillips	Richard	Journal article	Ingestion of fishing gear and entanglements of seabirds: Monitoring and implications for management.	Biological Conservation	501-512	143	2	2010
Phillips	Richard	Journal article	Stable isotopes reveal individual variation in migration strategies and habitat preferences in a suite of seabirds during the nonbreeding period.	Oecologia	795-806	160	4	2009
Phillips	Richard	Journal article	Year-round distribution suggests spatial segregation of two small petrel species in the South Atlantic.	Journal of Biogeography				2012
Phillips	Richard	Journal article	Habitat preference, accessibility, and competition limit the global distribution of breeding black-browed albatrosses.	Ecological Monographs	141-167	81	1	2011
Pond	David	Journal article	Phase transitions of wax esters adjust buoyancy in diapausing Calanoides acutus.	Limnology and Oceanography	1310-1318	56	4	2011
Pond	David	Journal article	Composition of wax esters is linked to diapause behavior of Calanus finmarchicus in a sea loch environment.	Limnology and Oceanography	65-75	57	1	2012
Pond	David	Journal article	Wax ester composition influences the diapause patterns in the copepod Calanoides acutus.	Deep Sea Research Part II: Topical Studies in Oceanography	93-104	59-60		2012
Pond	David	Journal article	The physical properties of lipids and their role in controlling the distribution of zooplankton in the oceans.	Journal of Plankton Research	443-453	34	6	2012
Ratcliffe	Norman	Journal article	An Emperor Penguin population estimate: The first global, synoptic survey of a species from space.	Plos One	e33751	7	4	2012

Ratcliffe	Norman	Journal article	Ecological drivers of change at South Georgia: the krill surplus, or climate variability.	Ecography	983-993	35	11	2012
Ratcliffe	Norman	Journal article	Sensitivity analysis identifies high influence sites for estimates of penguin krill consumption on the Antarctic Peninsula.	Antarctic Science	19-23	25	1	2012
Ratcliffe	Norman	Journal article	Predation of Atlantic Petrel chicks by house mice on Gough Island.	Animal Conservation	472-479	15	5	2012
Riley	Teal	Journal article	U-Pb zircon chronology from the basement inliers of eastern Graham Land, Antarctica.	Journal of the Geological Society of London	381-393	169	1	2012
Riley	Teal	Journal article	Lithologic mapping in the Oscar II Coast area, Graham Land, Antarctic Peninsula using ASTER data.	International Journal of Remote Sensing	2013-2035	32	7	2011
Riley	Teal	Journal article	Distinguishing East and West Antarctic sediment sources using the Pb isotope composition of detrital K-feldspar.	Chemical Geology	88-102	292-293		2012
Riley	Teal	Digital or visual media	Geological Map of Eastern Graham Land, Antarctic Peninsula, 1:625 000 scale (ISBN 978-0-85665-202-8); Geological Map of Adelaide Island, 1:200 000 (ISBN 978-0-85665-201-1); Geological Map of South Georgia, 1:250 000 (ISBN 978-0-85665-203-5); Geological Map of the South Orkney Islands, 1:150 000 (ISBN 978-0-85665-200-4).					2011
Roberts	Stephen J	Journal article	Geological constraints on glacio-isostatic adjustment models of relative sea-level change during deglaciation of Prince Gustav Channel, Antarctic Peninsula.	Quaternary Science Reviews	3603-3617	30	25-26	2011
Roberts	Stephen J	Journal article	The Holocene history of George VI Ice Shelf, Antarctic Peninsula from clast-provenance analysis of epishelf lake sediments	Palaeogeography Palaeoclimatology Palaeoecology	258-283	259	2-3	2008
Rodhouse	Paul	Journal article	Role of squid in the Southern Ocean pelagic ecosystem and the possible consequences of climate change.	Deep Sea Research Part II: Topical Studies in Oceanography				2012
Rodhouse	Paul	Journal article	Remotely sensed spatial dynamics of the Ilex argentinus fishery, Southwest Atlantic	Fisheries Research	196-202	91	2-3	2008
Roscoe	Howard	Journal article	Influences of ozone depletion, the solar cycle and the QBO on the Southern Annular Mode	Quarterly Journal of the Royal Meteorological Society	1855-1864	133		2007
Roscoe	Howard	Journal article	Variability and trends in stratospheric NO ₂ in Antarctic summer, and implications for stratospheric NO _y	Atmospheric Chemistry and Physics	3601-3612	9		2009
Roscoe	Howard	Journal article	Frost flower surface area and chemistry as a function of salinity and temperature	Journal of Geophysical Research	D20305	114		2009
Roscoe	Howard	Journal article	Intercomparison of slant column measurements of NO ₂ and O ₄ by MaxDOAS and zenith-sky UV and visible spectrometers	Atmospheric Measurement Techniques	1629-1646	3		2010
Sallée	Jean-Baptiste	Journal article	Localised subduction of anthropogenic carbon dioxide in the Southern Hemisphere oceans	Nature Geoscience	579-584	5	8	2012
Sallée	Jean-Baptiste	Journal article	Zonally asymmetric response of the Southern Ocean mixed-layer depth to the Southern Annular Mode	Nature Geoscience	273-279	3	4	2010
Shuckburgh	Emily	Journal article	Enhancement of Mesoscale Eddy Stirring at Steering Levels in the Southern Ocean	Journal of Physical Oceanography	170-184	40	1	2010
Shuckburgh	Emily	Journal article	Understanding the regional variability of eddy diffusivity in the Pacific sector of the Southern Ocean	Journal of Physical Oceanography	2011-2023	39	9	2009
Shuckburgh	Emily	Journal article	Local Mixing Events in the Upper Troposphere and Lower Stratosphere. Part I: Detection with the Lyapunov Diffusivity" and "Local Mixing Events in the Upper Troposphere and Lower Stratosphere. Part II: Seasonal and Interannual Variability"	Journal of Atmospheric Science	3678-3694 and 3695-3706	66	12	2009
Shuckburgh	Emily	Journal article	Emission of methane from plants	Proceedings of the Royal Society B: Biological Sciences	1347-1354	276	1660	2009
Sime	Louise C	Journal article	Evidence for warmer interglacials in East Antarctic ice cores	Nature	342-U105	462		2009
Sime	Louise C	Journal article	Antarctic isotopic thermometer during a CO ₂ forced warming event	Journal Of Geophysical Research-Atmospheres	D24119	113	D24	2008
Smith	Andrew	Journal article	Rapid erosion, drumlin formation, and changing hydrology beneath an Antarctic ice stream	Geology	127-130	35	2	2007

Smith	Andrew	Journal article	Bedform topography and basal conditions beneath a fast-flowing West Antarctic ice stream	Quaternary Science Reviews	584-596	28	7-8	2009
Smith	Andrew	Journal article	Influence of subglacial conditions on ice stream dynamics: Seismic and potential field data from Pine Island Glacier, West Antarctica	Journal of Geophysical Research - Solid Earth		37		2012
Smith	Andrew	Journal article	Rapid subglacial erosion beneath Pine Island Glacier, West Antarctica	Geophysical Research Letters	L12501	39	12	2012
Smith	James	Journal article	Oceanic and atmospheric forcing of early Holocene ice shelf retreat, George VI Ice Shelf, Antarctica Peninsula	Quaternary Science Reviews	500-516	26	3-4	2007
Staniland	Iain	Journal article	An energy-distance trade off in a central-place forager, the Antarctic fur seal (<i>Arctocephalus gazella</i>).	Marine Biology	233-241	152	2	2007
Staniland	Iain	Journal article	Segregation between the sexes: Antarctic fur seals, <i>Arctocephalus gazella</i> , foraging at South Georgia.	Animal Behaviour	1581-1590	75	4	2008
Staniland	Iain	Journal article	Geographical variation in the behaviour of a central place forager: Antarctic fur seals foraging in contrasting environments.	Marine Biology	2383-2396	157	11	2010
Staniland	Iain	Journal article	Foraging behaviour in two Antarctic fur seals colonies with differing population recoveries.	Marine Ecology Progress Series	183-196	434		2011
Tarling	Geraint	Journal article	Extensive dissolution of live pteropods in the Southern Ocean.	Nature Geoscience	881-885	5		2012
Tarling	Geraint	Journal article	Seasonal trophic structure of the Scotia Sea pelagic ecosystem considered through biomass spectra and stable isotope analysis.	Deep Sea Research Part II: Topical Studies in Oceanography	222-236	59-60		2012
Tarling	Geraint	Journal article	Differential gene expression during the moult cycle of Antarctic krill (<i>Euphausia superba</i>).	BMC Genomics	582	11		2010
Tarling	Geraint	Journal article	Swarms of diversity at the gene <i>cox1</i> in Antarctic krill.	Heredity	513-518	104	5	2010
Thomas	Elizabeth R	Journal article	The 8.2 ka event from Greenland ice cores	Quaternary Science Reviews	70-81	26	1-2	2007
Thomas	Elizabeth R	Journal article	A doubling in snow accumulation in the western Antarctic Peninsula since 1850	Geophysical Research Letters	L01706	35	1	2008
Thorpe	Sally	Journal article	Monitoring Drake Passage with elephant seals: frontal structures and snapshots of transport.	Limnology and Oceanography	2350-2360	53	5 Pt. 2	2008
Thorpe	Sally	Journal article	Circumpolar connections between Antarctic krill (<i>Euphausia superba</i> Dana) populations: investigating the roles of ocean and sea ice transport.	Deep-Sea Research Part I: Oceanographic Research Papers	792-810	54	5	2007
Trathan	Phillip	Journal article	Environmental forcing and Southern Ocean marine predator populations: effects of climate change and variability.	Philosophical Transactions of the Royal Society B: Biological Sciences	2351-2365	362	1488	2007
Trathan	Phillip	Journal article	Penguins from space: faecal stains reveal the location of emperor penguin colonies.	Global Ecology and Biogeography	543-552	18	5	2009
Trathan	Phillip	Journal article	Responding to climate change: Adélie penguins confront astronomical and ocean boundaries.	Ecology	2056-2069	91	7	2010
Trathan	Phillip	Journal article	Spatially integrated assessment reveals widespread changes in penguin populations on the Antarctic Peninsula.	Ecology	1367-1377	93	6	2012
Turner	John	Journal article	Non-annular atmospheric circulation change induced by stratospheric ozone depletion and its role in the recent increase of Antarctic sea ice extent.	Geophysical Research Letters	L08502	36		2009
Turner	John	Journal article	Impact of changes in sea ice advance on the large winter warming on the western Antarctic Peninsula.	International Journal of Climatology				2012
Turner	John	Journal article	An Initial Assessment of Antarctic Sea Ice Extent in the CMIP5 Models	Journal of Climate				2012
Turner	John	Journal article	Antarctic climate change over the Twenty First Century	Journal of Geophysical Research	D03103	113		2008
Vaughan	David	Journal article	West Antarctic Ice Sheet collapse - the fall and rise of a paradigm	Climatic Change	65-79	91	1-2	2008
Vaughan	David	Journal article	Overview of areal changes of the ice shelves on the Antarctic Peninsula over the past 50 years	The Cryosphere	77-98	4	1	2010
Vaughan	David	Journal article	Antarctic ice-sheet loss driven by basal melting of ice shelves	Nature	502-505	484	7395	2012

Vaughan	David	Journal article	Potential seaways across West Antarctica	Geochemistry, Geophysics, Geosystems	Q10004	12	10	2011
Vaughan	Alan	Journal article	Tectonic overview of the West Gondwana margin.	Gondwana Research	150-162	13 (2)	2	2008
Vaughan	Alan	Journal article	Evidence for a two-phase Palmer Land Event from cross-cutting structural relationships and emplacement timing of the Lassiter Coast Intrusive Suite, Antarctic Peninsula: Implications for mid-Cretaceous Southern Ocean plate configuration.	Tectonics	TC1010	31	1	2012
Vaughan	Alan	Journal article	Gondwana breakup and plate kinematics: Business as usual.	Geophysical Research Letters		36	10	2009
Vaughan	Alan	Journal article	Crustal thickening along the West Antarctic Gondwana margin during mid-Cretaceous deformation of the Triassic intra-oceanic Dyer Arc.	Lithos	130-147	142-143		2012
Wang	Zhaomin	Journal article	Density-driven Southern Hemisphere subpolar gyres in coupled climate models	Geophysical Research Letters	L14608	35	14	2008
Wang	Zhaomin	Journal article	On the response of the Antarctic Circumpolar Current transport to climate change in coupled climate models	Journal of Geophysical Research	C08011	116	C8	2011
Wang	Zhaomin	Journal article	The influence of eddy parameterizations on the transport of the Antarctic Circumpolar Current in coupled climate models	Ocean Modelling	1-8	52-53	1	2012
Wang	Zhaomin	Journal article	North Atlantic climate responses to perturbations in Antarctic Intermediate Water	Climate Dynamics	297-311	37	1-2	2011
Ward	Peter	Journal article	Pteropods in Southern Ocean ecosystems	Progress in Oceanography	193-221	78	3	2008
Ward	Peter	Journal article	Plankton community structure south and west of South Georgia (Southern Ocean): links with production and physical forcing.	Deep-Sea Research Part I: Oceanographic Research Papers	1871-1889	54	11	2007
Ward	Peter	Journal article	The summertime plankton community at South Georgia (Southern Ocean): comparing the historical (1926/1927) and modern (post 1995) records.	Progress in Oceanography	241-256	78	3	2008
Ward	Peter	Journal article	Food web structure and bioregions in the Scotia Sea: A seasonal synthesis.	Deep Sea Research Part II: Topical Studies in Oceanography	253-266	59-60		2012
Watkins	Jonathan	Journal article	Krill population dynamics at South Georgia: implications for ecosystem-based fisheries management.	Marine Ecology Progress Series	243-252	399		2010
Watkins	Jonathan	Journal article	Comparison of the structure and function of Southern Ocean regional ecosystems: the Antarctic Peninsula and South Georgia.	Journal of Marine Systems	22-42	109	S1	2012
Watkins	Nick	Journal article	Kinetic equation of linear fractional stable motion and applications to modeling the scaling of intermittent bursts	Physical Review E	41124	79	4	2009
Watkins	Nick	Journal article	Revisiting Lévy flight search patterns of wandering albatrosses, bumblebees and deer.	Nature	1044-1048	449	7165	2007
Watkins	Nick	Journal article	Pseudonstationarity in the scaling exponents of finite-interval time series	Physical Review E	36109	79	3	2009
Watkins	Nick	Journal article	Macroscopic control parameter for avalanche models of bursty transport.	Physics of Plasmas	12303	16	1	2009
Wolff	Eric W	Journal article	Orbital and millennial Antarctic climate variability over the last 800 000 years.	Science	793-796	317	5839	2007
Wolff	Eric W	Journal article	Glacial terminations as southern warmings without northern control	Nature Geoscience	206-209	2		2009
Wolff	Eric W	Journal article	800,000 years of abrupt climate variability	Science	347-351	334	6054	2011
Wolff	Eric W	Journal article	The Carrington Event not observed in most ice core nitrate records	Geophysical Research Letters	L08503	39	8	2012
Young	Emma	Journal article	High-resolution modelling of the shelf and open ocean adjacent to South Georgia, Southern Ocean.	Deep Sea Research Part II: Topical Studies in Oceanography	1540-1552	58	13-16	2011
Young	Emma	Journal article	Physical and behavioural influences on larval fish retention: contrasting patterns in two Antarctic fishes.	Marine Ecology Progress Series	201-215	465		2012