Mat Collins

List of Publications by Citations

159 papers	16,325 citations	57 h-index	127 g-index
182 ext. papers	18,326 ext. citations	8.5 avg, IF	6.4 L-index

#	Paper	IF	Citations
159	Quantification of modelling uncertainties in a large ensemble of climate change simulations. *Nature*, **2004**, 430, 768-72	50.4	1237
158	Increasing frequency of extreme El Niño events due to greenhouse warming. *Nature Climate Change*, **2014**, 4, 111-116	21.4	1181
157	Health and climate change: policy responses to protect public health. *Lancet, The*, **2015**, 386, 1861-914	40	932
156	Uncertainty in predictions of the climate response to rising levels of greenhouse gases. *Nature*, **2005**, 433, 403-6	50.4	856
155	The impact of global warming on the tropical Pacific Ocean and El Niño. *Nature Geoscience*, **2010**, 3, 391-397	8.3	828
154	Improved general circulation models of the Martian atmosphere from the surface to above 80 km. *Journal of Geophysical Research*, **1999**, 104, 24155-24175		762
153	Amazonian forest dieback under climate-carbon cycle projections for the 21st century. *Theoretical and Applied Climatology*, **2004**, 78, 137	3	527
152	Projected increase in continental runoff due to plant responses to increasing carbon dioxide. *Nature*, **2007**, 448, 1037-41	50.4	486
151	ENSO and greenhouse warming. *Nature Climate Change*, **2015**, 5, 849-859	21.4	441
150	Understanding El Niño in Ocean–Atmosphere General Circulation Models: Progress and Challenges. *Bulletin of the American Meteorological Society*, **2009**, 90, 325-340	6.1	405
149	Increased frequency of extreme La Niña events under greenhouse warming. *Nature Climate Change*, **2015**, 5, 132-137	21.4	382
148	The internal climate variability of HadCM3, a version of the Hadley Centre coupled model without flux adjustments. *Climate Dynamics*, **2001**, 17, 61-81	4.2	318
147	The role of ecosystem-atmosphere interactions in simulated Amazonian precipitation decrease and forest dieback under global climate warming. *Theoretical and Applied Climatology*, **2004**, 78, 157	3	313
146	El Niño in a changing climate: a multi-model study. *Ocean Science*, **2005**, 1, 81-95	4	297
145	Towards quantifying uncertainty in transient climate change. *Climate Dynamics*, **2006**, 27, 127-147	4.2	293
144	Increasing risk of Amazonian drought due to decreasing aerosol pollution. *Nature*, **2008**, 453, 212-5	50.4	285
143	A climate database for Mars. *Journal of Geophysical Research*, **1999**, 104, 24177-24194		264

142	A methodology for probabilistic predictions of regional climate change from perturbed physics ensembles. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2007**, 365, 1993-2028	3	239
141	El Niño- or La Niña-like climate change?. *Climate Dynamics*, **2005**, 24, 89-104	4.2	219
140	ENSO Atmospheric Teleconnections and Their Response to Greenhouse Gas Forcing. *Reviews of Geophysics*, **2018**, 56, 185-206	23.1	207
139	Climate model errors, feedbacks and forcings: a comparison of perturbed physics and multi-model ensembles. *Climate Dynamics*, **2011**, 36, 1737-1766	4.2	203
138	Towards predictive understanding of regional climate change. *Nature Climate Change*, **2015**, 5, 921-930	21.4	196
137	High sensitivity of future global warming to land carbon cycle processes. *Environmental Research Letters*, **2012**, 7, 024002	6.2	185
136	Interannual to Decadal Climate Predictability in the North Atlantic: A Multimodel-Ensemble Study. *Journal of Climate*, **2006**, 19, 1195-1203	4.4	150
135	Projected response of the Indian Ocean Dipole to greenhouse warming. *Nature Geoscience*, **2013**, 6, 999-1007	18.9	146
134	Increased crop failure due to climate change: assessing adaptation options using models and socio-economic data for wheat in China. *Environmental Research Letters*, **2010**, 5, 034012	6.2	142
133	Calibration Strategies: A Source of Additional Uncertainty in Climate Change Projections. *Bulletin of the American Meteorological Society*, **2012**, 93, 21-26	6.1	140
132	More extreme swings of the South Pacific convergence zone due to greenhouse warming. *Nature*, **2012**, 488, 365-9	50.4	140
131	North Atlantic Oscillation response to transient greenhouse gas forcing and the impact on European winter climate: a CMIP2 multi-model assessment. *Climate Dynamics*, **2006**, 27, 401-420	4.2	133
130	The Carbon Cycle Response to ENSO: A Coupled Climate–Carbon Cycle Model Study. *Journal of Climate*, **2001**, 14, 4113-4129	4.4	132
129	Ensembles and probabilities: a new era in the prediction of climate change. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2007**, 365, 1957-70	3	131
128	Towards quantifying uncertainty in predictions of Amazon 'dieback'. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2008**, 363, 1857-64	5.8	130
127	Climate predictability on interannual to decadal time scales: the initial value problem. *Climate Dynamics*, **2002**, 19, 671-692	4.2	127
126	When could global warming reach 4°C?. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2011**, 369, 67-84	3	125
125	Representing El Niño in Coupled Ocean–Atmosphere GCMs: The Dominant Role of the Atmospheric Component. *Journal of Climate*, **2004**, 17, 4623-4629	4.4	124

124	Granger Causality of Coupled Climate Processes: Ocean Feedback on the North Atlantic Oscillation. *Journal of Climate*, **2006**, 19, 1182-1194	4.4	122
123	A Review of Predictability Studies of Atlantic Sector Climate on Decadal Time Scales. *Journal of Climate*, **2006**, 19, 5971-5987	4.4	122
122	Constraining climate forecasts: The role of prior assumptions. *Geophysical Research Letters*, **2005**, 32,	4.9	120
121	Quantifying future climate change. *Nature Climate Change*, **2012**, 2, 403-409	21.4	113
120	Multivariate probabilistic projections using imperfect climate models part I: outline of methodology. *Climate Dynamics*, **2012**, 38, 2513-2542	4.2	112
119	Seasonal to interannual Arctic sea ice predictability in current global climate models. *Geophysical Research Letters*, **2014**, 41, 1035-1043	4.9	104
118	Broad range of 2050 warming from an observationally constrained large climate model ensemble. *Nature Geoscience*, **2012**, 5, 256-260	18.3	98
117	The El Niño-Southern Oscillation in the Second Hadley Centre Coupled Model and Its Response to Greenhouse Warming. *Journal of Climate*, **2000**, 13, 1299-1312	4.4	90
116	Understanding uncertainties in the response of ENSO to greenhouse warming. *Geophysical Research Letters*, **2000**, 27, 3509-3512	4.9	83
115	Seasonal intercomparison of observational rainfall datasets over India during the southwest monsoon season. *International Journal of Climatology*, **2015**, 35, 2326-2338	3.5	77
114	Predictability of Winter Climate over the North Atlantic European Region during ENSO Events. *Journal of Climate*, **2004**, 17, 1953-1974	4.4	77
113	Links between tropical Pacific seasonal, interannual and orbital variability during the Holocene. *Nature Geoscience*, **2016**, 9, 168-173	18.3	75
112	Quantifying the likelihood of a continued hiatus in global warming. *Nature Climate Change*, **2015**, 5, 337-342	21.4	69
111	Predictability of decadal variations in the thermohaline circulation and climate. *Geophysical Research Letters*, **2003**, 30,	4.9	68
110	Baroclinic Wave Transitions in the Martian Atmosphere. *Icarus*, **1996**, 120, 344-357	3.8	68
109	Southern Ocean albedo, inter-hemispheric energy transports and the double ITCZ: global impacts of biases in a coupled model. *Climate Dynamics*, **2017**, 48, 2279-2295	4.2	66
108	Model tropical Atlantic biases underpin diminished Pacific decadal variability. *Nature Climate Change*, **2018**, 8, 493-498	21.4	65
107	Quantifying the water vapour feedback associated with post-Pinatubo global cooling. *Climate Dynamics*, **2004**, 23, 207-214	4.2	61

106	Assessing the Relative Roles of Initial and Boundary Conditions in Interannual to Decadal Climate Predictability. *Journal of Climate*, **2002**, 15, 3104-3109	4.4	60
105	Structural Similarities and Differences in Climate Responses to CO2 Increase between Two Perturbed Physics Ensembles. *Journal of Climate*, **2010**, 23, 1392-1410	4.4	59
104	SST and circulation trend biases cause an underestimation of European precipitation trends. *Climate Dynamics*, **2013**, 40, 1-20	4.2	58
103	Uncertainty in the ENSO amplitude change from the past to the future. *Geophysical Research Letters*, **2012**, 39,	4.9	58
102	Frequency distributions of transient regional climate change from perturbed physics ensembles of general circulation model simulations. *Climate Dynamics*, **2006**, 27, 357-375	4.2	52
101	Statistical problems in the probabilistic prediction of climate change. *Environmetrics*, **2012**, 23, 364-372	1.3	48
100	Modelling mid-Holocene tropical climate and ENSO variability: towards constraining predictions of future change with palaeo-data. *Climate Dynamics*, **2007**, 30, 19-36	4.2	48
99	Challenges and opportunities for improved understanding of regional climate dynamics. *Nature Climate Change*, **2018**, 8, 101-108	21.4	47
98	Probabilistic projections of transient climate change. *Climate Dynamics*, **2013**, 40, 2937-2972	4.2	47
97	A Comparison of the Variability of a Climate Model with Paleotemperature Estimates from a Network of Tree-Ring Densities. *Journal of Climate*, **2002**, 15, 1497-1515	4.4	47
96	Observational challenges in evaluating climate models. *Nature Climate Change*, **2013**, 3, 940-941	21.4	45
95	Reliability of multi-model and structurally different single-model ensembles. *Climate Dynamics*, **2012**, 39, 599-616	4.2	44
94	An objective tropical Atlantic sea surface temperature gradient index for studies of south Amazon dry-season climate variability and change. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2008**, 363, 1761-6	5.8	44
93	Improved stochastic physics schemes for global weather and climate models. *Quarterly Journal of the Royal Meteorological Society*, **2016**, 142, 147-159	6.4	42
92	El Niño-Southern Oscillation, Pliocene climate and equifinality. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2009**, 367, 127-56	3	42
91	Probabilistic projections for 21st century European climate. *Natural Hazards and Earth System Sciences*, **2010**, 10, 2009-2020	3.9	40
90	The Sensitivity of the Rate of Transient Climate Change to Ocean Physics Perturbations. *Journal of Climate*, **2007**, 20, 2315-2320	4.4	40
89	Intensification of the annual cycle in the tropical Pacific due to greenhouse warming. *Geophysical Research Letters*, **2004**, 31, n/a-n/a	4.9	39

88	The impact of perturbations to ocean-model parameters on climate and climate change in a coupled model. *Climate Dynamics*, **2010**, 34, 325-343	4.2	35
87	The influence of ENSO on South American precipitation during austral summer and autumn in observations and models. *International Journal of Climatology*, **2016**, 36, 618-635	3.5	35
86	Mid-Holocene ENSO: Issues in quantitative model-proxy data comparisons. *Paleoceanography*, **2008**, 23, n/a-n/a		34
85	How uncertain are climate model projections of water availability indicators across the Middle East?. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2010**, 368, 5117-35	3	33
84	Inter-annual tropical Pacific climate variability in an isotope-enabled CGCM: implications for interpreting coral stable oxygen isotope records of ENSO. *Climate of the Past*, **2013**, 9, 1543-1557	3.9	30
83	Martian atmospheric data assimilation with a simplified general circulation model: orbiter and lander networks. *Planetary and Space Science*, **1996**, 44, 1395-1409	2	30
82	El Niño in a changing climate: a multi-model study		30
81	The variation of ENSO characteristics associated with atmospheric parameter perturbations in a coupled model. *Climate Dynamics*, **2008**, 30, 643-656	4.2	29
80	New Strategies for Evaluating ENSO Processes in Climate Models. *Bulletin of the American Meteorological Society*, **2012**, 93, 235-238	6.1	27
79	. *Computing in Science and Engineering*, **2002**, 4, 82-89	1.5	27
78	Changing El Niño–Southern Oscillation in a warming climate. *Nature Reviews Earth & Environment*, **2021**, 2, 628-644	30.2	26
77	Tropical vertical temperature trends: A real discrepancy?. *Geophysical Research Letters*, **2007**, 34,	4.9	25
76	Diagnosing Relationships between Mean State Biases and El Niño Shortwave Feedback in CMIP5 Models. *Journal of Climate*, **2018**, 31, 1315-1335	4.4	24
75	Extreme swings of the South Pacific Convergence Zone and the different types of El Niño events. *Geophysical Research Letters*, **2014**, 41, 4695-4703	4.9	24
74	Interactions between perturbations to different Earth system components simulated by a fully-coupled climate model. *Climate Dynamics*, **2013**, 41, 3055-3072	4.2	24
73	Sensitivity and uncertainty of modelled terrestrial net primary productivity to doubled CO2 and associated climate change for a relatively large perturbed physics ensemble. *Agricultural and Forest Meteorology*, **2013**, 170, 79-88	5.8	24
72	The Arctic Predictability and Prediction on Seasonal-to-Interannual TimEscales (APPOSITE) data set version 1. *Geoscientific Model Development*, **2016**, 9, 2255-2270	6.3	24
71	Decadal climate variability in the tropical Pacific: Characteristics, causes, predictability, and prospects. *Science*, **2021**, 374, eaay9165	33.3	24

70	Ocean–Atmosphere State Dependence of the Atmospheric Response to Arctic Sea Ice Loss. *Journal of Climate*, **2017**, 30, 1537-1552	4.4	23
69	ENSO teleconnections to the Indian summer monsoon in observations and models. *International Journal of Climatology*, **2017**, 37, 1794-1813	3.5	23
68	Gravity wave drag in a global circulation model of the Martian atmosphere: Parameterisation and validation. *Advances in Space Research*, **1997**, 19, 1245-1254	2.4	23
67	Wave interactions and baroclinic chaos: a paradigm for long timescale variability in planetary atmospheres. *Chaos, Solitons and Fractals*, **1998**, 9, 231-249	9.3	23
66	The Met Office Hadley Centre climate modelling capability: the competing requirements for improved resolution, complexity and dealing with uncertainty. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2007**, 365, 2635-57	3	23
65	The role of ENSO flavours and TNA on recent droughts over Amazon forests and the Northeast Brazil region. *International Journal of Climatology*, **2021**, 41, 3761-3780	3.5	22
64	How far ahead could we predict El Niño?. *Geophysical Research Letters*, **2002**, 29, 130-1-130-4	4.9	21
63	Coupled model simulations of mid-Holocene ENSO and comparisons with coral oxygen isotope records. *Advances in Geosciences*,6, 29-33		21
62	Understanding Bias in the Evaporative Damping of El Niño–Southern Oscillation Events in CMIP5 Models. *Journal of Climate*, **2017**, 30, 6351-6370	4.4	20
61	Reliability and importance of structural diversity of climate model ensembles. *Climate Dynamics*, **2013**, 41, 2745-2763	4.2	20
60	Data assimilation with a Martian atmospheric GCM: An example using thermal data. *Advances in Space Research*, **1997**, 19, 1267-1270	2.4	20
59	Fourth CLIVAR Workshop on the Evaluation of ENSO Processes in Climate Models: ENSO in a Changing Climate. *Bulletin of the American Meteorological Society*, **2016**, 97, 817-820	6.1	19
58	On identifying the role of Sun and the El Niño Southern Oscillation on Indian Summer Monsoon Rainfall. *Atmospheric Science Letters*, **2015**, 16, 162-169	2.4	19
57	ENSO teleconnections to the Indian summer monsoon under changing climate. *International Journal of Climatology*, **2019**, 39, 3031-3042	3.5	19
56	Global Mean Surface Temperature Response to Large-Scale Patterns of Variability in Observations and CMIP5. *Geophysical Research Letters*, **2019**, 46, 2232-2241	4.9	18
55	A GCM climate database for Mars: For mission planning and for scientific studies. *Advances in Space Research*, **1997**, 19, 1213-1222	2.4	17
54	Eastward shift and extension of ENSO-induced tropical precipitation anomalies under global warming. *Science Advances*, **2020**, 6, eaax4177	14.3	17
53	Stratospheric water vapour and high climate sensitivity in a version of the HadSM3 climate model. *Atmospheric Chemistry and Physics*, **2010**, 10, 7161-7167	6.8	16

52	The influence of ENSO on South American precipitation: simulation and projection in CMIP5 models. *International Journal of Climatology*, **2017**, 37, 3319-3339	3.5	15
51	Quantifying Uncertainty in Model Predictions for the Pliocene (Plio-QUMP): Initial results. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2011**, 309, 128-140	2.9	15
50	Regular baroclinic transient waves in a simplified global circulation model of the Martian atmosphere. *Journal of Geophysical Research*, **1995**, 100, 14421		12
49	U.K. Climate Projections: Summer Daytime and Nighttime Urban Heat Island Changes in England Major Cities. *Journal of Climate*, **2020**, 33, 9015-9030	4.4	11
48	Quantifying global climate feedbacks, responses and forcing under abrupt and gradual CO2 forcing. *Climate Dynamics*, **2013**, 41, 2471-2479	4.2	10
47	ENSO feedbacks and their relationships with the mean state in a flux adjusted ensemble. *Climate Dynamics*, **2019**, 52, 7189-7208	4.2	10
46	The 2021 western North America heat wave among the most extreme events ever recorded globally.. *Science Advances*, **2022**, 8, eabm6860	14.3	10
45	The contrasting climate response to tropical and extratropical energy perturbations. *Climate Dynamics*, **2018**, 51, 3231-3249	4.2	9
44	Surface Warming and Atmospheric Circulation Dominate Rainfall Changes Over Tropical Rainforests Under Global Warming. *Geophysical Research Letters*, **2019**, 46, 13410-13419	4.9	9
43	Impact of a Stochastic Kinetic Energy Backscatter scheme across time-scales and resolutions. *Quarterly Journal of the Royal Meteorological Society*, **2014**, 140, 2625-2637	6.4	9
42	Inferring changes in ENSO amplitude from the variance of proxy records. *Geophysical Research Letters*, **2015**, 42, 1197-1204	4.9	9
41	The role of atmosphere and ocean physical processes in ENSO in a perturbed physics coupled climate model. *Ocean Science*, **2010**, 6, 441-459	4	9
40	Still weighting to break the model democracy. *Geophysical Research Letters*, **2017**, 44, 3328-3329	4.9	8
39	MEETING SUMMARIES. *Bulletin of the American Meteorological Society*, **2015**, 96, 1969-1972	6.1	8
38	Coupled ocean atmosphere modeling and predictions. *Journal of Marine Research*, **2017**, 75, 361-402	1.5	8
37	Effect of AMOC collapse on ENSO in a high resolution general circulation model. *Climate Dynamics*, **2018**, 50, 2537-2552	4.2	8
36	Physical Mechanisms of Tropical Climate Feedbacks Investigated Using Temperature and Moisture Trends*. *Journal of Climate*, **2015**, 28, 8968-8987	4.4	8
35	Northern hemisphere winter atmospheric climate: modes of natural variability and climate change. *Climate Dynamics*, **2008**, 31, 195-211	4.2	8

34	Atlantic Atmosphere–Ocean Interaction: A Stochastic Climate Model–Based Diagnosis. *Journal of Climate*, **2005**, 18, 1086-1095	4.4	8
33	Future changes in the frequency of temperature extremes may be underestimated in tropical and subtropical regions. *Communications Earth & Environment*, **2021**, 2,	6.1	8
32	Diagnosing ENSO and Global Warming Tropical Precipitation Shifts Using Surface Relative Humidity and Temperature. *Journal of Climate*, **2018**, 31, 1413-1433	4.4	8
31	Ocean Climate Observing Requirements in Support of Climate Research and Climate Information. *Frontiers in Marine Science*, **2019**, 6,	4.5	7
30	A hiatus in the stratosphere?. *Nature Climate Change*, **2015**, 5, 497-498	21.4	7
29	Decadal Climate Variability and Cross-Scale Interactions: ICCL 2013 Expert Assessment Workshop. *Bulletin of the American Meteorological Society*, **2014**, 95, ES155-ES158	6.1	7
28	Northward Propagation of the Intertropical Convergence Zone and Strengthening of Indian Summer Monsoon Rainfall. *Geophysical Research Letters*, **2020**, 47, e2020GL089823	4.9	7
27	Assessing the Significance of Changes in ENSO Amplitude Using Variance Metrics. *Journal of Climate*, **2014**, 27, 4911-4922	4.4	6
26	Predictions of Climate Following Volcanic Eruptions. *Geophysical Monograph Series*, **2003**, 283-300	1.1	6
25	Regular and irregular baroclinic waves in a martian general circulation model: A role for diurnal forcing?. *Advances in Space Research*, **1995**, 16, 3-7	2.4	6
24	The Role of Tropical Mean-State Biases in Modeled Winter Northern Hemisphere El Niño Teleconnections. *Journal of Climate*, **2020**, 33, 4751-4768	4.4	6
23	An example of the dependence of the transient climate response on the temperature of the modelled climate state. *Atmospheric Science Letters*, **2008**, 10, 23-28	2.4	5
22	The North Atlantic as a Driver of Summer Atmospheric Circulation. *Journal of Climate*, **2020**, 33, 7335-7351	4.4	5
21	ENSO Response to Greenhouse Forcing. *Geophysical Monograph Series*, **2020**, 289-307	1.1	5
20	ENSO and the Carbon Cycle. *Geophysical Monograph Series*, **2020**, 453-470	1.1	5
19	An evaluation of CMIP5 and CMIP6 climate models in simulating summer rainfall in the Southeast Asian monsoon domain. *International Journal of Climatology*,	3.5	4
18	Induced surface fluxes: a new framework for attributing Arctic sea ice volume balance biases to specific model errors. *Cryosphere*, **2019**, 13, 2001-2022	5.5	4
17	Multivariate and multi-temporal analysis of meteorological drought in the northeast of Thailand. *Weather and Climate Extremes*, **2021**, 34, 100399	6	3

16	Stratospheric water vapour and high climate sensitivity in a version of the HadSM3 climate model		3
15	CMIP5 Intermodel Relationships in the Baseline Southern Ocean Climate System and With Future Projections. *Earth's Future*, **2021**, 9, e2020EF001873	7.9	3
14	Emerging Skill in Multi-Year Prediction of the Indian Ocean Dipole. *Frontiers in Climate*, **2021**, 3,	7.1	3
13	Inter-annual tropical Pacific climate variability in an isotope-enabled CGCM: implications for interpreting coral stable oxygen isotope records of ENSO		2
12	Future Changes to El Niño Teleconnections over the North Pacific and North America. *Journal of Climate*, **2021**, 1-43	4.4	2
11	Emergence of climate change in the tropical Pacific. *Nature Climate Change*, **2022**, 12, 356-364	21.4	2
10	Influences of Local and Remote Conditions on Tropical Precipitation and Its Response to Climate Change. *Journal of Climate*, **2020**, 33, 4045-4063	4.4	1
9	Using Arctic ice mass balance buoys for evaluation of modelled ice energy fluxes. *Geoscientific Model Development*, **2020**, 13, 4845-4868	6.3	1
8	The Arctic Predictability and Prediction on Seasonal-to-Interannual TimEscales (APPOSITE) data set		1
7	Development of super-ensemble techniques for ocean analyses: the Mediterranean Sea case. *Natural Hazards and Earth System Sciences*, **2016**, 16, 1807-1819	3.9	1
6	The role of atmosphere and ocean physical processes in ENSO		1
5	Challenges and opportunities for improved understanding of regional climate dynamics		1
4	SimCloud version 1.0: a simple diagnostic cloud scheme for idealized climate models. *Geoscientific Model Development*, **2021**, 14, 2801-2826	6.3	1
3	Projected changes in the near-future mean climate and extreme climate events in northeast Thailand. *International Journal of Climatology*,	3.5	1
2	From observations to forecasts Part 9: what is decadal forecasting?. *Weather*, **2011**, 66, 160-164	0.9	
1	Climate Crash: Abrupt Climate Change and what it Means for Our Future - by John D Cox. *Geographical Journal*, **2007**, 173, 94-94	2.2	