Keith Haines

List of Publications by Year in Descending Order

139 papers	3,750 citations	37 h-index	55 g-index
145 ext. papers	4,103 ext. citations	4 avg, IF	5.35 L-index

#	Paper	IF	Citations
139	Improved High Resolution Ocean Reanalyses Using a Simple Smoother Algorithm. *Journal of Advances in Modeling Earth Systems*, **2021**, 13, e2021MS002626	7.1	0
138	Can the boundary profiles at 26°N be used to extract buoyancy-forced Atlantic Meridional Overturning Circulation signals?. *Ocean Science*, **2020**, 16, 1067-1088	4	1
137	Inverse Modeling of Global and Regional Energy and Water Cycle Fluxes using Earth Observation Data. *Journal of Climate*, **2020**, 33, 1707-1723	4.4	6
136	Perturbed Biology and Physics Signatures in a 1-D Ocean Biogeochemical Model Ensemble. *Frontiers in Marine Science*, **2020**, 7,	4.5	1
135	An assessment of ten ocean reanalyses in the polar regions. *Climate Dynamics*, **2019**, 52, 1613-1650	4.2	63
134	Ocean Reanalyses: Recent Advances and Unsolved Challenges. *Frontiers in Marine Science*, **2019**, 6,	4.5	29
133	The Mean State and Variability of the North Atlantic Circulation: A Perspective From Ocean Reanalyses. *Journal of Geophysical Research: Oceans*, **2019**, 124, 9141-9170	3.3	29
132	Decoupled Freshwater Transport and Meridional Overturning in the South Atlantic. *Geophysical Research Letters*, **2019**, 46, 2178-2186	4.9	5
131	Improved SST-Precipitation Intraseasonal Relationships in the ECMWF Coupled Climate Reanalysis. *Geophysical Research Letters*, **2018**, 45, 3664-3672	4.9	12
130	The EU-FP7 ERA-CLIM2 Project Contribution to Advancing Science and Production of Earth System Climate Reanalyses. *Bulletin of the American Meteorological Society*, **2018**, 99, 1003-1014	6.1	23
129	A perturbed biogeochemistry model ensemble evaluated against in situ and satellite observations. *Biogeosciences*, **2018**, 15, 6685-6711	4.6	2
128	Coupling of surface air and sea surface temperatures in the CERA-20C reanalysis. *Quarterly Journal of the Royal Meteorological Society*, **2018**, 144, 195-207	6.4	14
127	South Atlantic meridional transports from NEMO-based simulations and reanalyses. *Ocean Science*, **2018**, 14, 53-68	4	10
126	Steric sea level variability (1993–2010) in an ensemble of ocean reanalyses and objective analyses. *Climate Dynamics*, **2017**, 49, 709-729	4.2	42
125	Intercomparison and validation of the mixed layer depth fields of global ocean syntheses. *Climate Dynamics*, **2017**, 49, 753-773	4.2	41
124	Interannual-decadal variability of wintertime mixed layer depths in the North Pacific detected by an ensemble of ocean syntheses. *Climate Dynamics*, **2017**, 49, 891-907	4.2	16
123	Ocean heat content variability and change in an ensemble of ocean reanalyses. *Climate Dynamics*, **2017**, 49, 909-930	4.2	67

122	An assessment of air–sea heat fluxes from ocean and coupled reanalyses. *Climate Dynamics*, **2017**, 49, 983-1008	4.2	67
121	An ensemble of eddy-permitting global ocean reanalyses from the MyOcean project. *Climate Dynamics*, **2017**, 49, 813-841	4.2	52
120	Intercomparison of the Arctic sea ice cover in global ocean–sea ice reanalyses from the ORA-IP project. *Climate Dynamics*, **2017**, 49, 1107-1136	4.2	70
119	An assessment of upper ocean salinity content from the Ocean Reanalyses Inter-comparison Project (ORA-IP). *Climate Dynamics*, **2017**, 49, 1009-1029	4.2	17
118	Review and assessment of latent and sensible heat flux accuracy over the global oceans. *Remote Sensing of Environment*, **2017**, 201, 196-218	13.2	46
117	Towards seasonal Arctic shipping route predictions. *Environmental Research Letters*, **2017**, 12, 084005	6.2	34
116	Using lagged covariances in data assimilation. *Tellus, Series A: Dynamic Meteorology and Oceanography*, **2017**, 69, 1377589	2	2
115	Climate model forecast biases assessed with a perturbed physics ensemble. *Climate Dynamics*, **2017**, 49, 1729-1746	4.2	10
114	Sea ice decline and 21st century trans-Arctic shipping routes. *Geophysical Research Letters*, **2016**, 43, 9720-9728	4.9	162
113	Improving seasonal forecasting through tropical ocean bias corrections. *Quarterly Journal of the Royal Meteorological Society*, **2016**, 142, 2797-2807	6.4	5
112	Aspects of designing and evaluating seasonal-to-interannual Arctic sea-ice prediction systems. *Quarterly Journal of the Royal Meteorological Society*, **2016**, 142, 672-683	6.4	22
111	A comparison of GOCE and drifter-based estimates of the North Atlantic steady-state surface circulation. *International Journal of Applied Earth Observation and Geoinformation*, **2015**, 35, 140-150	7.3	6
110	Argo real-time quality control intercomparison. *Journal of Operational Oceanography*, **2015**, 8, 108-122	2.9	4
109	Origin and Impact of Initialization Shocks in Coupled Atmosphere–Ocean Forecasts*. *Monthly Weather Review*, **2015**, 143, 4631-4644	2.4	53
108	Improved Arctic sea ice thickness projections using bias-corrected CMIP5 simulations. *Cryosphere*, **2015**, 9, 2237-2251	5.5	23
107	The Ocean Reanalyses Intercomparison Project (ORA-IP). *Journal of Operational Oceanography*, **2015**, 8, s80-s97	2.9	135
106	Freshwater and heat transports from global ocean synthesis. *Journal of Geophysical Research: Oceans*, **2014**, 119, 394-409	3.3	18
105	How well can we measure the ocean's mean dynamic topography from space?. *Journal of Geophysical Research: Oceans*, **2014**, 119, 3336-3356	3.3	16

104	A novel transport assimilation method for the Atlantic meridional overturning circulation at 26°N. *Quarterly Journal of the Royal Meteorological Society*, **2014**, 140, 2563-2572	6.4	6
103	Mechanisms of Atlantic Meridional Overturning Circulation variability simulated by the NEMO model. *Ocean Science*, **2014**, 10, 645-656	4	16
102	A Web Map Service implementation for the visualization of multidimensional gridded environmental data. *Environmental Modelling and Software*, **2013**, 47, 218-224	5.2	40
101	Atmosphere drives recent interannual variability of the Atlantic meridional overturning circulation at 26.5°N. *Geophysical Research Letters*, **2013**, 40, 5164-5170	4.9	75
100	Atlantic meridional heat transports in two ocean reanalyses evaluated against the RAPID array. *Geophysical Research Letters*, **2013**, 40, 343-348	4.9	11
99	The link between the Barents Sea and ENSO events simulated by NEMO model. *Ocean Science*, **2012**, 8, 971-982	4	2
98	Transports and budgets in a 1/4° global ocean reanalysis 1989–2010. *Ocean Science*, **2012**, 8, 333-344	4	31
97	Comparing the UK Met Office Climate Prediction System DePreSys with idealized predictability in the HadCM3 model. *Quarterly Journal of the Royal Meteorological Society*, **2012**, 138, 81-90	6.4	7
96	Assimilation of RAPID array observations into an ocean model. *Quarterly Journal of the Royal Meteorological Society*, **2012**, 138, 2105-2117	6.4	14
95	Mechanisms Linking Volcanic Aerosols to the Atlantic Meridional Overturning Circulation. *Journal of Climate*, **2012**, 25, 3039-3051	4.4	21
94	Assimilation impacts on Arctic Ocean circulation, heat and freshwater budgets. *Ocean Modelling*, **2011**, 40, 147-163	3	8
93	An ECOOP web portal for visualising and comparing distributed coastal oceanography model and in situ data. *Ocean Science*, **2011**, 7, 445-454	4	12
92	An ocean modelling and assimilation guide to using GOCE geoid products. *Ocean Science*, **2011**, 7, 151-164	4	22
91	A comparison of the variability of biological nutrients against depth and potential density. *Biogeosciences*, **2010**, 7, 1263-1269	4.6	13
90	A nutrient increment method for reducing bias in global biogeochemical models. *Journal of Geophysical Research*, **2010**, 115,		9
89	Global hydrology modelling and uncertainty: running multiple ensembles with a campus grid. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2010**, 368, 4005-21	3	61
88	Marine ecosystem models for earth systems applications: The MarQUEST experience. *Journal of Marine Systems*, **2010**, 81, 19-33	2.7	30
87	Impact of hydrographic data assimilation on the modelled Atlantic meridional overturning circulation. *Ocean Science*, **2010**, 6, 761-774	4	21

86	Synthesis and Assimilation Systems - Essential Adjuncts to the Global Ocean Observing System **2010**,		2
85	Ocean Data Assimilation **2010**, 517-547		3
84	Serving GODAE Data and Products to the Ocean Community. *Oceanography*, **2009**, 22, 70-79	2.3	13
83	Validation of ocean model syntheses against hydrography using a new web application. *Journal of Operational Oceanography*, **2009**, 2, 29-41	2.9	13
82	Effect of ENSO Phase on Large-Scale Snow Water Equivalent Distribution in a GCM. *Journal of Climate*, **2009**, 22, 6153-6167	4.4	1
81	Evaluation of the S(T) assimilation method with the Argo dataset. *Quarterly Journal of the Royal Meteorological Society*, **2009**, 135, 739-756	6.4	40
80	Estimating Oceanic Heat Content Change Using Isotherms. *Journal of Climate*, **2009**, 22, 4953-4969	4.4	39
79	A new perspective on warming of the global oceans. *Geophysical Research Letters*, **2009**, 36,	4.9	28
78	Century-of-Information Research (CIR): A Strategy for Research and Innovation in the Century of Information. *Prometheus*, **2009**, 27, 27-45	0	4
77	Modelling the global coastal ocean. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2009**, 367, 939-51	3	60
76	Land surface anomaly simulations and predictions with a climate model: an El Niño Southern Oscillation case study. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2009**, 367, 917-23	3	2
75	Decadal climate prediction (project GCEP). *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2009**, 367, 925-37	3	9
74	Running climate models on grids using G-Rex. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2009**, 367, 847-53	3	6
73	GODIVA2: interactive visualization of environmental data on the Web. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2009**, 367, 1035-9	3	19
72	Modeling the diurnal variability of sea surface temperatures. *Journal of Geophysical Research*, **2008**, 113,		19
71	The assimilation of satellite-derived sea surface temperatures into a diurnal cycle model. *Journal of Geophysical Research*, **2008**, 113,		5
70	Impact of the North Atlantic Oscillation on the trans-Atlantic migrations of the European eel (Anguilla anguilla). *Journal of Geophysical Research*, **2008**, 113,		38
69	Delivering NCOF operational marine data through the Internet. *Journal of Operational Oceanography*, **2008**, 1, 35-39	2.9	

68	Calculating the Ocean Mean Dynamic Topography from a Mean Sea Surface and a Geoid. *Journal of Atmospheric and Oceanic Technology*, **2008**, 25, 1808-1822	2	59
67	Ocean altimeter assimilation with observational- and model-bias correction. *Quarterly Journal of the Royal Meteorological Society*, **2008**, 134, 1761-1774	6.4	43
66	Historical reconstruction of the Atlantic Meridional Overturning Circulation from the ECMWF operational ocean reanalysis. *Geophysical Research Letters*, **2007**, 34, n/a-n/a	4.9	46
65	Isolating the signal of ocean global warming. *Geophysical Research Letters*, **2007**, 34, n/a-n/a	4.9	66
64	Combining altimetric/gravimetric and ocean model mean dynamic topography models in the GOCINA region **2007**, 3-10		5
63	Eddy-Forced Coherent Structures As A Prototype of Atmospheric Blocking. *Quarterly Journal of the Royal Meteorological Society*, **2007**, 113, 681-704	6.4	70
62	The Need for a Dynamical Climate Reanalysis. *Bulletin of the American Meteorological Society*, **2007**, 88, 495-502	6.1	68
61	How does the European eel (Anguilla anguilla) retain its population structure during its larval migration across the North Atlantic Ocean?. *Canadian Journal of Fisheries and Aquatic Sciences*, **2006** , 63, 90-106	2.4	86
60	Influence of systematic error correction on the temporal behavior of an ocean model. *Journal of Geophysical Research*, **2006**, 111,		11
59	Salinity Assimilation Using S(T): Covariance Relationships. *Monthly Weather Review*, **2006**, 134, 759-771	2.4	39
58	Styx Grid Services: Lightweight Middleware for Efficient Scientific Workflows. *Scientific Programming*, **2006**, 14, 209-216	1.4	1
57	North Atlantic Subtropical Mode Waters and Ocean Memory in HadCM3. *Journal of Climate*, **2006**, 19, 1126-1148	4.4	7
56	Mean dynamic topography: inter-comparisons and errors. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2006**, 364, 903-16	3	31
55	Styx Grid Services: Lightweight, Easy-to-Use Middleware for Scientific Workflows. *Lecture Notes in Computer Science*, **2006**, 996-1003	0.9	3
54	A diagnostic study of interpentadal variability in the North Atlantic Ocean using a finite element model. *Ocean Modelling*, **2005**, 10, 69-81	3	4
53	Diagnosing Natural Variability of North Atlantic Water Masses in HadCM3. *Journal of Climate*, **2005**, 18, 1925-1941	4.4	7
52	The geoid EDIN2000 and mean sea surface topography around the British Isles. *Geophysical Journal International*, **2004**, 157, 565-577	2.6	22
51	Interpretation of Water Mass Transformations Diagnosed from Data Assimilation. *Journal of Physical Oceanography*, **2003**, 33, 485-498	2.4	29

50	Combined Use of Altimetry and In Situ Gravity Data for Coastal Dynamics Studies. *Space Science Reviews*, **2003**, 108, 205-216	7.5	4
49	A hydraulic box model study of the Mediterranean response to postglacial sea-level rise. *Paleoceanography*, **2003**, 18, n/a-n/a		28
48	Altimeter Covariances and Errors Treatment **2003**, 297-308		1
47	Assimilation of Hydrographic Data and Analysis of Model Bias **2003**, 309-320		1
46	Uses of Ocean Data Assimilation and Ocean State Estimation **2003**, 289-296		3
45	Combined Use of Altimetry and in Situ Gravity Data for Coastal Dynamics Studies. *Space Sciences Series of ISSI*, **2003**, 205-216	0.1	2
44	Modelling changes in Mediterranean thermohaline circulation 1987–1995. *Journal of Marine Systems*, **2002**, 33-34, 51-62	2.7	20
43	Salinity Adjustments in the Presence of Temperature Data Assimilation. *Monthly Weather Review*, **2002**, 130, 89-102	2.4	63
42	Stability of the Mediterranean's thermohaline circulation under modified surface evaporative fluxes. *Journal of Geophysical Research*, **2002**, 107, 7-1		16
41	Modelling nutrient cycling during the eastern Mediterranean transient event 1987–1995 and beyond. *Geophysical Research Letters*, **2002**, 29, 5-1	4.9	8
40	Initialization of Seasonal Forecasts Assimilating Sea Level and Temperature Observations. *Journal of Climate*, **2001**, 14, 4292-4307	4.4	22
39	Sea Level Assimilation Experiments in the Tropical Pacific. *Journal of Physical Oceanography*, **2001**, 31, 305-323	2.4	20
38	A neural network atmospheric model for hybrid coupled modelling. *Climate Dynamics*, **2001**, 17, 445-455	4.2	24
37	Seasonal and Interannual Variability in a Model of the Mediterranean under Derived Flux Forcing. *Journal of Physical Oceanography*, **2000**, 30, 1069-1082	2.4	28
36	A Study of Temperature Changes in the Upper North Atlantic: 1950–94. *Journal of Climate*, **2000**, 13, 2697-2711	4.4	15
35	Altimeter assimilation in the OCCAM global model. *Journal of Marine Systems*, **2000**, 26, 303-322	2.7	15
34	Altimeter assimilation in the OCCAM global model Part II: TOPEX/POSEIDON and ERS-1 assimilation. *Journal of Marine Systems*, **2000**, 26, 323-347	2.7	18
33	Toward an Understanding of Deep-Water Renewal in the Eastern Mediterranean. *Journal of Physical Oceanography*, **2000**, 30, 443-458	2.4	66

32	Palaeoceanography and numerical modelling: the Mediterranean Sea at times of sapropel formation. *Geological Society Special Publication*, **2000**, 181, 135-149	1.7	6
31	Frictional sinking of the dense water overflow in a z-Coordinate OGCM of the Mediterranean Sea. *Geophysical Research Letters*, **2000**, 27, 3969-3972	4.9	6
30	Use of the Temperature–Salinity Relation in a Data Assimilation Context. *Journal of Atmospheric and Oceanic Technology*, **1999**, 16, 2011-2025	2	75
29	Satellite altimetry data assimilation in the OCCAM global ocean model. *Physics and Chemistry of the Earth*, **1999**, 24, 375-380		1
28	Response of the Mediterranean Sea thermohaline circulation to observed changes in the winter wind stress field in the period 1980–1993. *Journal of Geophysical Research*, **1999**, 104, 7771-7784		65
27	GCM studies of intermediate and deep waters in the Mediterranean. *Journal of Marine Systems*, **1998**, 18, 197-214	2.7	10
26	Vacillation cycles and blocking in a channel. *Quarterly Journal of the Royal Meteorological Society*, **1998**, 124, 873-895	6.4	24
25	The general circulation of the Mediterranean Sea from a 100-year simulation. *Journal of Geophysical Research*, **1998**, 103, 1121-1135		45
24	On the importance of the choice of wind stress forcing to the modeling of the Mediterranean Sea circulation. *Journal of Geophysical Research*, **1998**, 103, 15729-15749		31
23	Modeling the paleocirculation of the Mediterranean: The Last Glacial Maximum and the Holocene with emphasis on the formation of sapropel S 1. *Paleoceanography*, **1998**, 13, 586-606		134
22	Altimetric assimilation in a Mediterranean general circulation model. *Journal of Geophysical Research*, **1997**, 102, 10509-10523		7
21	Data assimilation in ocean models. *Reports on Progress in Physics*, **1996**, 59, 1209-1266	14.4	44
20	Altimetric assimilation with water property conservation. *Journal of Geophysical Research*, **1996**, 101, 1059-1077		196
19	Modeling the dispersal of Levantine Intermediate Water and its role in Mediterranean deep water formation. *Journal of Geophysical Research*, **1996**, 101, 6591-6607		97
18	The decay of modons due to Rossby wave radiation. *Physics of Fluids*, **1994**, 6, 3487-3497	4.4	19
17	Low-frequency variability in atmospheric middle latitudes. *Surveys in Geophysics*, **1994**, 15, 1-61	7.6	10
16	Dynamics and Data Assimilation in Oceanography **1994**, 1-32		4
15	A comparison of two methods for the assimilation of altimeter data into a shallow-water model. *Dynamics of Atmospheres and Oceans*, **1993**, 17, 89-133	1.9	21

14	Persistent Jet Stream Intensifications: A Comparison between Theory and Data. *Journals of the Atmospheric Sciences*, **1993**, 50, 145-154	2.1	6
13	A Direct Method for Assimilating Sea Surface Height Data into Ocean Models with Adjustments to the Deep Circulation. *Journal of Physical Oceanography*, **1991**, 21, 843-868	2.4	61
12	Isolated Anomalies in Westerly Jet Streams: A Unified Approach. *Journals of the Atmospheric Sciences*, **1991**, 48, 510-526	2.1	19
11	Baroclinic Modons as Prototypes for Atmospheric Blocking. *Journals of the Atmospheric Sciences*, **1989**, 46, 3202-3218	2.1	15
10	A Theoretical and Diagnostic Study of Solitary Waves and Atmospheric Blocking. *Journals of the Atmospheric Sciences*, **1989**, 46, 2063-2078	2.1	53
9	Eddy-Forced Coherent Structures As A Prototype of Atmospheric Blocking **1987**, 113, 681		25
8	Mechanisms of AMOC variability simulated by the NEMO model		1
7	Impact of hydrographic data assimilation on the Atlantic meridional overturning circulation		2
6	An ocean modelling and assimilation guide to using GOCE geoid products		2
5	Transports and budgets in a 1/4°global ocean reanalysis 1989–2010		2
4	An ECOOP web portal for visualising and comparing distributed coastal oceanography model and in-situ data		1
3	The World at One's Fingertips: Interactive Interpretation of Environmental Data395-416		
2	Uncertainties of particulate organic carbon concentrations in the mesopelagic zone of the Atlantic ocean. *Open Research Europe*,1, 43		0
1	Uncertainties of particulate organic carbon concentrations in the mesopelagic zone of the Atlantic ocean. *Open Research Europe*,1, 43		1