

# Helene T Hewitt

## List of Publications by Citations

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39  
papers

1,226  
citations

19  
h-index

34  
g-index

47  
ext. papers

1,666  
ext. citations

6  
avg, IF

4.01  
L-index

#	Paper	IF	Citations
39	OMIP contribution to CMIP6: experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 3231-3296	6.3	130
38	UK Global Ocean GO6 and GO7: a traceable hierarchy of model resolutions. <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 3187-3213	6.3	79
37	The Low-Resolution Version of HadGEM3 GC3.1: Development and Evaluation for Global Climate. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 2865-2888	7.1	71
36	Description of the resolution hierarchy of the global coupled HadGEM3-GC3.1 model as used in CMIP6 HighResMIP experiments. <i>Geoscientific Model Development</i> , <b>2019</b> , 12, 4999-5028	6.3	68
35	Critical Southern Ocean climate model biases traced to atmospheric model cloud errors. <i>Nature Communications</i> , <b>2018</b> , 9, 3625	17.4	66
34	Development of the Global Sea Ice 6.0 CICE configuration for the Met Office Global Coupled model. <i>Geoscientific Model Development</i> , <b>2015</b> , 8, 2221-2230	6.3	60
33	Satellite and In Situ Observations for Advancing Global Earth Surface Modelling: A Review. <i>Remote Sensing</i> , <b>2018</b> , 10, 2038	5	60
32	An update of IPCC climate reference regions for subcontinental analysis of climate model data: definition and aggregated datasets. <i>Earth System Science Data</i> , <b>2020</b> , 12, 2959-2970	10.5	58
31	Prospects for improving the representation of coastal and shelf seas in global ocean models. <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 499-523	6.3	56
30	Challenges and Prospects in Ocean Circulation Models. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4.5	54
29	Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?. <i>Ocean Modelling</i> , <b>2017</b> , 120, 120-136	3	53
28	AMM15: a new high-resolution NEMO configuration for operational simulation of the European north-west shelf. <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 681-696	6.3	53
27	Identifying uncertainties in Arctic climate change projections. <i>Climate Dynamics</i> , <b>2013</b> , 40, 2849-2865	4.2	52
26	Assessing the forecast skill of Arctic sea ice extent in the GloSea4 seasonal prediction system. <i>Climate Dynamics</i> , <b>2015</b> , 44, 147-162	4.2	48
25	Impact of ocean resolution on coupled air-sea fluxes and large-scale climate. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 10,430-10,438	4.9	46
24	The impact of resolving the Rossby radius at mid-latitudes in the ocean: results from a high-resolution version of the Met Office GC2 coupled model. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 3655-3670	6.3	42
23	The Atlantic Meridional Overturning Circulation in High-Resolution Models. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2019JC015522	3.3	40

22	The CO5 configuration of the 7 km Atlantic Margin Model: large-scale biases and sensitivity to forcing, physics options and vertical resolution. <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 2947-2969	6.3	37
21	Sensitivity of the Atlantic Meridional Overturning Circulation to Model Resolution in CMIP6 HighResMIP Simulations and Implications for Future Changes. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2019MS002014	7.1	24
20	Model-Observations Synergy in the Coastal Ocean. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4.5	18
19	Resolving Shelf Break Exchange Around the European Northwest Shelf. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 12,386-12,395	4.9	17
18	The location of the thermodynamic atmosphere-ocean interface in fully coupled models: a case study using JULES and CICE. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 1125-1141	6.3	14
17	Resolving and Parameterising the Ocean Mesoscale in Earth System Models. <i>Current Climate Change Reports</i> , <b>2020</b> , 6, 137-152	9	13
16	A case study of a modelled episode of low Arctic sea ice. <i>Climate Dynamics</i> , <b>2013</b> , 41, 1229-1244	4.2	10
15	Evaluating surface eddy properties in coupled climate simulations with Eddy-present and Eddy-rich ocean resolution. <i>Ocean Modelling</i> , <b>2020</b> , 147, 101567	3	9
14	An update of IPCC climate reference regions for subcontinental analysis of climate model data: Definition and aggregated datasets		6
13	UK Global Ocean GO6 and GO7: a traceable hierarchy of model resolutions <b>2018</b> ,		6
12	Experimental and diagnostic protocol for the physical component of the CMIP6 Ocean Model Intercomparison Project (OMIP)		4
11	Description of the resolution hierarchy of the global coupled HadGEM3-GC3.1 model as used in CMIP6 HighResMIP experiments <b>2019</b> ,		2
10	The impact of resolving the Rossby radius at mid-latitudes in the ocean: results from a high-resolution version of the Met Office GC2 coupled model <b>2016</b> ,		2
9	Feedback of mesoscale ocean currents on atmospheric winds in high-resolution coupled models and implications for the forcing of ocean-only models <b>2017</b> ,		2
8	AMM15: A new high resolution NEMO configuration for operational simulation of the European North West Shelf <b>2017</b> ,		2
7	Re-emergence of North Atlantic subsurface ocean temperature anomalies in a seasonal forecast system. <i>Climate Dynamics</i> , <b>2019</b> , 53, 4799-4820	4.2	2
6	A seamless approach to understanding and predicting Arctic sea ice in Met Office modelling systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2015</b> , 373,	3	2
5	The CO5 configuration of the 7 km Atlantic Margin Model: Large scale biases and sensitivity to forcing, physics options and vertical resolution		2

4	A mechanism for lack of sea ice reversibility in the Southern Ocean. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 8404-8410	4.9	1
3	Prospects for improving the representation of coastal and shelf seas in global ocean models <b>2016</b> ,		1
2	Arctic summer sea-ice seasonal simulation with a coupled model: Evaluation of mean features and biases. <i>Journal of Earth System Science</i> , <b>2019</b> , 128, 1	1.8	1
1	Air-Sea Turbulent Heat Flux Feedback Over Mesoscale Eddies. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL095407	4.9	0