

# Magdalena A Balmaseda

## List of Publications by Year in descending order

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Version: 2024-02-01

125  
papers

35,654  
citations

28274

55  
h-index

16650

123  
g-index

147  
all docs

147  
docs citations

147  
times ranked

26382  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seasonal forecast skill of upper-ocean heat content in coupled high-resolution systems. <i>Climate Dynamics</i> , 2022, 58, 3335-3350.	3.8	5
2	Variability of ENSO Forecast Skill in 20-Year Global Reforecasts Over the 20th Century. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	11
3	Evaluating Twenty-Year Trends in Earth's Energy Flows From Observations and Reanalyses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	13
4	The representation of winter Northern Hemisphere atmospheric blocking in ECMWF seasonal prediction systems. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 1344-1363.	2.7	16
5	Year-round impact of winter sea ice thickness observations on seasonal forecasts. <i>Cryosphere</i> , 2021, 15, 325-344.	3.9	10
6	Indian Ocean impact on ENSO evolution 2014–2016 in a set of seasonal forecasting experiments. <i>Climate Dynamics</i> , 2021, 56, 2631-2649.	3.8	9
7	Hemispheric Impact of North Atlantic SSTs in Subseasonal Forecasts. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL0911446.	4.0	5
8	The 20th century global warming signature on the ocean at global and basin scales as depicted from historical reanalyses. <i>International Journal of Climatology</i> , 2021, 41, 5977-5997.	3.5	4
9	Tropical Pacific Air–Sea Interaction Processes and Biases in CESM2 and Their Relation to El Niño Development. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016967.	2.6	4
10	Seasonal Forecasting Skill of Sea-Level Anomalies in a Multi-Model Prediction Framework. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC017060.	2.6	17
11	Decadal climate variability in the tropical Pacific: Characteristics, causes, predictability, and prospects. <i>Science</i> , 2021, 374, eaay9165.	12.6	92
12	The relative roles of decadal climate variations and changes in the ocean observing system on seasonal prediction skill of tropical Pacific SST. <i>Climate Dynamics</i> , 2021, 56, 3045-3063.	3.8	6
13	The importance of North Atlantic Ocean transports for seasonal forecasts. <i>Climate Dynamics</i> , 2020, 55, 1995-2011.	3.8	15
14	Current and Emerging Developments in Subseasonal to Decadal Prediction. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E869-E896.	3.3	116
15	The Time-Scale-Dependent Response of the Wintertime North Atlantic to Increased Ocean Model Resolution in a Coupled Forecast Model. <i>Journal of Climate</i> , 2020, 33, 3663-3689.	3.2	15
16	Ocean Reanalyses: Recent Advances and Unsolved Challenges. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	63
17	Global Perspectives on Observing Ocean Boundary Current Systems. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	39
18	The ECMWF operational ensemble reanalysis–analysis system for ocean and sea ice: a description of the system and assessment. <i>Ocean Science</i> , 2019, 15, 779-808.	3.4	330

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19	A Drift-Free Decadal Climate Prediction System for the Community Earth System Model. <i>Journal of Climate</i> , 2019, 32, 5967-5995.	3.2	11
20	Ocean Observations to Improve Our Understanding, Modeling, and Forecasting of Subseasonal-to-Seasonal Variability. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	16
21	Evolution of Ocean Heat Content Related to ENSO. <i>Journal of Climate</i> , 2019, 32, 3529-3556.	3.2	53
22	Synthesis of Ocean Observations Using Data Assimilation for Operational, Real-Time and Reanalysis Systems: A More Complete Picture of the State of the Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	60
23	SEAS5: the new ECMWF seasonal forecast system. <i>Geoscientific Model Development</i> , 2019, 12, 1087-1117.	3.6	331
24	Observing System Evaluation Based on Ocean Data Assimilation and Prediction Systems: On-Going Challenges and a Future Vision for Designing and Supporting Ocean Observational Networks. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	61
25	Observational Needs for Improving Ocean and Coupled Reanalysis, S2S Prediction, and Decadal Prediction. <i>Frontiers in Marine Science</i> , 2019, 6, 391.	2.5	24
26	The added value of the multi-system spread information for ocean heat content and steric sea level investigations in the CMEMS GREP ensemble reanalysis product. <i>Climate Dynamics</i> , 2019, 53, 287-312.	3.8	43
27	Influence of Westerly Wind Events stochasticity on El Niño amplitude: the case of 2014 vs. 2015. <i>Climate Dynamics</i> , 2019, 52, 7435-7454.	3.8	35
28	Unprecedented 2015/2016 Indo-Pacific Heat Transfer Speeds Up Tropical Pacific Heat Recharge. <i>Geophysical Research Letters</i> , 2018, 45, 3274-3284.	4.0	43
29	Thin Arctic sea ice in L-band observations and an ocean reanalysis. <i>Cryosphere</i> , 2018, 12, 2051-2072.	3.9	17
30	Ocean heat content variability in an ensemble of twentieth century ocean reanalyses. <i>Climate Dynamics</i> , 2018, 50, 3783-3798.	3.8	24
31	Predicting Sudden Stratospheric Warming 2018 and Its Climate Impacts With a Multimodel Ensemble. <i>Geophysical Research Letters</i> , 2018, 45, 13,538.	4.0	95
32	CERA-20C: A Coupled Reanalysis of the Twentieth Century. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1172-1195.	3.8	212
33	Predicting El Niño in 2014 and 2015. <i>Scientific Reports</i> , 2018, 8, 10733.	3.3	17
34	Steric sea level variability (1993–2010) in an ensemble of ocean reanalyses and objective analyses. <i>Climate Dynamics</i> , 2017, 49, 709-729.	3.8	48
35	Intercomparison and validation of the mixed layer depth fields of global ocean syntheses. <i>Climate Dynamics</i> , 2017, 49, 753-773.	3.8	52
36	Interannual-decadal variability of wintertime mixed layer depths in the North Pacific detected by an ensemble of ocean syntheses. <i>Climate Dynamics</i> , 2017, 49, 891-907.	3.8	16

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37	Arctic sea ice in the global eddy-permitting ocean reanalysis ORAP5. <i>Climate Dynamics</i> , 2017, 49, 775-789.	3.8	24
38	Comparison of the Atlantic meridional overturning circulation between 1960 and 2007 in six ocean reanalysis products. <i>Climate Dynamics</i> , 2017, 49, 957-982.	3.8	89
39	Ocean heat content variability and change in an ensemble of ocean reanalyses. <i>Climate Dynamics</i> , 2017, 49, 909-930.	3.8	88
40	An assessment of air-sea heat fluxes from ocean and coupled reanalyses. <i>Climate Dynamics</i> , 2017, 49, 983-1008.	3.8	81
41	An ensemble of eddy-permitting global ocean reanalyses from the MyOcean project. <i>Climate Dynamics</i> , 2017, 49, 813-841.	3.8	67
42	Intercomparison of the Arctic sea ice cover in global ocean-sea ice reanalyses from the ORA-IP project. <i>Climate Dynamics</i> , 2017, 49, 1107-1136.	3.8	92
43	An assessment of upper ocean salinity content from the Ocean Reanalyses Inter-comparison Project (ORA-IP). <i>Climate Dynamics</i> , 2017, 49, 1009-1029.	3.8	21
44	The new eddy-permitting ORAP5 ocean reanalysis: description, evaluation and uncertainties in climate signals. <i>Climate Dynamics</i> , 2017, 49, 791-811.	3.8	112
45	Importance of convective parameterization in ENSO predictions. <i>Geophysical Research Letters</i> , 2017, 44, 6334-6342.	4.0	27
46	Multi-year predictability of climate, drought, and wildfire in southwestern North America. <i>Scientific Reports</i> , 2017, 7, 6568.	3.3	49
47	Reforecasting the ENSO Events in the Past 57 Years (1958-2014). <i>Journal of Climate</i> , 2017, 30, 7669-7693.	3.2	34
48	Editorial for Ocean Reanalysis Intercomparison Special Issue. <i>Climate Dynamics</i> , 2017, 49, 707-708.	3.8	2
49	Data assimilation for initialization of seasonal forecasts. <i>Journal of Marine Research</i> , 2017, 75, 331-359.	0.3	6
50	The Copernicus Marine Environment Monitoring Service Ocean State Report. <i>Journal of Operational Oceanography</i> , 2016, 9, s235-s320.	1.2	86
51	Improving seasonal forecasting through tropical ocean bias corrections. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 2797-2807.	2.7	6
52	The role of off-equatorial surface temperature anomalies in the 2014 El Niño prediction. <i>Scientific Reports</i> , 2016, 6, 19677.	3.3	68
53	Observation and integrated Earth-system science: A roadmap for 2016-2025. <i>Advances in Space Research</i> , 2016, 57, 2037-2103.	2.6	35
54	A coupled data assimilation system for climate reanalysis. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 65-78.	2.7	145

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55	Influence of Oceanic Intraseasonal Kelvin Waves on Eastern Pacific Hurricane Activity. <i>Journal of Climate</i> , 2016, 29, 7941-7955.	3.2	11
56	Fourth CLIVAR Workshop on the Evaluation of ENSO Processes in Climate Models: ENSO in a Changing Climate. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 817-820.	3.3	20
57	Evaluation of the Tropical Pacific Observing System from the ocean data assimilation perspective. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 2481-2496.	2.7	28
58	A surface layer variance heat budget for ENSO. <i>Geophysical Research Letters</i> , 2015, 42, 3529-3537.	4.0	19
59	Origin and Impact of Initialization Shocks in Coupled Atmosphere–Ocean Forecasts*. <i>Monthly Weather Review</i> , 2015, 143, 4631-4644.	1.4	70
60	Improved sea level record over the satellite altimetry era (1993–2010) from the Climate Change Initiative project. <i>Ocean Science</i> , 2015, 11, 67-82.	3.4	205
61	Surface wave effects in the NEMO ocean model: Forced and coupled experiments. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 2973-2992.	2.6	109
62	Climate drift of AMOC, North Atlantic salinity and arctic sea ice in CFSv2 decadal predictions. <i>Climate Dynamics</i> , 2015, 44, 559-583.	3.8	34
63	The Curious Case of the EL Niño That Never Happened: A Perspective from 40 Years of Progress in Climate Research and Forecasting. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1647-1665.	3.3	47
64	Impact of Initial Conditions versus External Forcing in Decadal Climate Predictions: A Sensitivity Experiment*. <i>Journal of Climate</i> , 2015, 28, 4454-4470.	3.2	27
65	Status and future of global and regional ocean prediction systems. <i>Journal of Operational Oceanography</i> , 2015, 8, s201-s220.	1.2	51
66	Surface warming hiatus caused by increased heat uptake across multiple ocean basins. <i>Geophysical Research Letters</i> , 2014, 41, 7868-7874.	4.0	99
67	On the Energy Exchange between Tropical Ocean Basins Related to ENSO*. <i>Journal of Climate</i> , 2014, 27, 6393-6403.	3.2	48
68	The Importance of Wind and Buoyancy Forcing for the Boundary Density Variations and the Geostrophic Component of the AMOC at 26°N. <i>Journal of Physical Oceanography</i> , 2014, 44, 2387-2408.	1.7	56
69	Earth's Energy Imbalance. <i>Journal of Climate</i> , 2014, 27, 3129-3144.	3.2	275
70	Toward a Consistent Reanalysis of the Climate System. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 1235-1248.	3.3	184
71	How robust is the recent strengthening of the Tropical Pacific trade winds?. <i>Geophysical Research Letters</i> , 2014, 41, 4398-4405.	4.0	45
72	Salinity anomaly as a trigger for ENSO events. <i>Scientific Reports</i> , 2014, 4, 6821.	3.3	92

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73	Evaluation of forecast strategies for seasonal and decadal forecasts in presence of systematic model errors. <i>Climate Dynamics</i> , 2013, 41, 2393-2409.	3.8	81
74	Predictability of the mid-latitude Atlantic meridional overturning circulation in a multi-model system. <i>Climate Dynamics</i> , 2013, 41, 775-785.	3.8	69
75	Improved reliability of ENSO hindcasts with multi-ocean analyses ensemble initialization. <i>Climate Dynamics</i> , 2013, 41, 2785-2795.	3.8	26
76	The Indian Ocean: The Region of Highest Skill Worldwide in Decadal Climate Prediction*. <i>Journal of Climate</i> , 2013, 26, 726-739.	3.2	62
77	Distinctive climate signals in reanalysis of global ocean heat content. <i>Geophysical Research Letters</i> , 2013, 40, 1754-1759.	4.0	490
78	Evaluation of the ECMWF ocean reanalysis system ORAS4. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 1132-1161.	2.7	837
79	How Predictable is the Indian Ocean Dipole?. <i>Monthly Weather Review</i> , 2012, 140, 3867-3884.	1.4	96
80	A Comparative Analysis of Upper-Ocean Heat Content Variability from an Ensemble of Operational Ocean Reanalyses. <i>Journal of Climate</i> , 2012, 25, 6905-6929.	3.2	82
81	An ensemble estimation of the variability of upper-ocean heat content over the tropical Atlantic Ocean with multi-ocean reanalysis products. <i>Climate Dynamics</i> , 2012, 39, 1001-1020.	3.8	46
82	Ensemble ENSO hindcasts initialized from multiple ocean analyses. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	73
83	Impact of the sea surface temperature forcing on hindcasts of Madden-Julian Oscillation events using the ECMWF model. <i>Ocean Science</i> , 2012, 8, 1071-1084.	3.4	21
84	Decadal climate prediction with the European Centre for Medium-Range Weather Forecasts coupled forecast system: Impact of ocean observations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	62
85	ECMWF seasonal forecast system 3 and its prediction of sea surface temperature. <i>Climate Dynamics</i> , 2011, 37, 455-471.	3.8	127
86	The ERA-Interim reanalysis: configuration and performance of the data assimilation system. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 553-597.	2.7	20,227
87	Seasonal and Decadal Prediction. , 2011, , 513-542.		4
88	The PreVOCA experiment: modeling the lower troposphere in the Southeast Pacific. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4757-4774.	4.9	109
89	Impact of 2007 and 2008 Arctic ice anomalies on the atmospheric circulation: Implications for long-range predictions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 1655-1664.	2.7	77
90	Consistency and fidelity of Indonesian-throughflow total volume transport estimated by 14 ocean data assimilation products. <i>Dynamics of Atmospheres and Oceans</i> , 2010, 50, 201-223.	1.8	35

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91	Initialization for Seasonal and Decadal Forecasts. , 2010, , .		5
92	Intergovernmental Panel for Climate Change (IPCC) and Attribution and Prediction of Climate: Progress since the Fourth Assessment. , 2010, , .		1
93	Ocean Initialization for Seasonal Forecasts. Oceanography, 2009, 22, 154-159.	1.0	57
94	Assimilation of Altimeter Data in the ECMWF Ocean Analysis System 3. Monthly Weather Review, 2009, 137, 1393-1408.	1.4	26
95	Ensemble estimation of background error variances in a three-dimensional variational data assimilation system for the global ocean. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 1071-1094.	2.7	67
96	Observing System Evaluations Using GODAE Systems. Oceanography, 2009, 22, 144-153.	1.0	49
97	Ocean State Estimation for Climate Research. Oceanography, 2009, 22, 160-167.	1.0	228
98	The new VarEPS monthly forecasting system: A first step towards seamless prediction. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 1789-1799.	2.7	129
99	The ECMWF Ocean Analysis System: ORA-S3. Monthly Weather Review, 2008, 136, 3018-3034.	1.4	288
100	Impact of Ocean Observation Systems on Ocean Analysis and Seasonal Forecasts. Monthly Weather Review, 2007, 135, 409-429.	1.4	40
101	Monthly Forecast of the Madden-Julian Oscillation Using a Coupled GCM. Monthly Weather Review, 2007, 135, 2700-2715.	1.4	107
102	Historical reconstruction of the Atlantic Meridional Overturning Circulation from the ECMWF operational ocean reanalysis. Geophysical Research Letters, 2007, 34, .	4.0	51
103	A multivariate treatment of bias for sequential data assimilation: Application to the tropical oceans. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 167-179.	2.7	75
104	The role of the ocean in the Madden-Julian Oscillation: Implications for MJO prediction. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 117-128.	2.7	175
105	The ECMWF Ocean Analysis System: ORA-S3. Monthly Weather Review, 2007, preprint, 1.	1.4	7
106	Toward an Integrated Seasonal Forecasting System for South America. Journal of Climate, 2006, 19, 3704-3721.	3.2	77
107	Tropical Atlantic SST Prediction with Coupled Ocean-Atmosphere GCMs. Journal of Climate, 2006, 19, 6047-6061.	3.2	106
108	A Bayesian approach for multi-model downscaling: Seasonal forecasting of regional rainfall and river flows in South America. Meteorological Applications, 2006, 13, 73.	2.1	18

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109	The ECMWF Perspective. , 2006, , 361-379.		0
110	Did the ECMWF Seasonal Forecast Model Outperform Statistical ENSO Forecast Models over the Last 15 Years?. Journal of Climate, 2005, 18, 3240-3249.	3.2	90
111	Evaluation of Atmospheric Fields from the ECMWF Seasonal Forecasts over a 15-Year Period. Journal of Climate, 2005, 18, 3250-3269.	3.2	58
112	The ERA-40 reanalysis. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 2961-3012.	2.7	6,198
113	An Ensemble Generation Method for Seasonal Forecasting with an Ocean-Atmosphere Coupled Model. Monthly Weather Review, 2005, 133, 441-453.	1.4	69
114	Sensitivity of dynamical seasonal forecasts to ocean initial conditions. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 647-667.	2.7	76
115	Westerly Wind Events and the 1997/98 El Niño Event in the ECMWF Seasonal Forecasting System: A Case Study. Journal of Climate, 2003, 16, 3153-3170.	3.2	28
116	Sensitivity of Pacific Ocean Tropical Instability Waves to Initial Conditions. Journal of Physical Oceanography, 2003, 33, 105-121.	1.7	20
117	Salinity Adjustments in the Presence of Temperature Data Assimilation. Monthly Weather Review, 2002, 130, 89-102.	1.4	67
118	Balanced Ocean-Data Assimilation near the Equator. Journal of Physical Oceanography, 2002, 32, 2509-2519.	1.7	69
119	How Predictability Depends on the Nature of Uncertainty in Initial Conditions in a Coupled Model of ENSO. Journal of Climate, 2000, 13, 3298-3313.	3.2	44
120	Global seasonal rainfall forecasts using a coupled ocean-atmosphere model. Nature, 1998, 392, 370-373.	27.8	253
121	Decadal and Seasonal Dependence of ENSO Prediction Skill. Journal of Climate, 1995, 8, 2705-2715.	3.2	166
122	ENSO prediction using a dynamical ocean model coupled to statistical atmospheres. Tellus, Series A: Dynamic Meteorology and Oceanography, 1994, 46, 497-511.	1.7	41
123	ENSO prediction using a dynamical ocean model coupled to statistical atmospheres. Tellus, Series A: Dynamic Meteorology and Oceanography, 1994, 46, 497-511.	1.7	21
124	Simulation and hindcasts of tropical Pacific Ocean interannual variability. Tellus, Series A: Dynamic Meteorology and Oceanography, 1994, 46, 433-447.	1.7	7
125	Simulation and hindcasts of tropical Pacific Ocean interannual variability. Tellus, Series A: Dynamic Meteorology and Oceanography, 1994, 46, 433-447.	1.7	13