

# Shoshiro Minobe

## List of Publications by Year in descending order

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85  
papers

6,676  
citations

117571

34  
h-index

64755

79  
g-index

88  
all docs

88  
docs citations

88  
times ranked

6296  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Pacific Decadal Oscillation, Revisited. <i>Journal of Climate</i> , 2016, 29, 4399-4427.	1.2	877
2	A 50-70 year climatic oscillation over the North Pacific and North America. <i>Geophysical Research Letters</i> , 1997, 24, 683-686.	1.5	691
3	Influence of the Gulf Stream on the troposphere. <i>Nature</i> , 2008, 452, 206-209.	13.7	635
4	Air-sea interaction over ocean fronts and eddies. <i>Dynamics of Atmospheres and Oceans</i> , 2008, 45, 274-319.	0.7	615
5	Insights from Earth system model initial-condition large ensembles and future prospects. <i>Nature Climate Change</i> , 2020, 10, 277-286.	8.1	436
6	Resonance in bidecadal and pentadecadal climate oscillations over the North Pacific: Role in climatic regime shifts. <i>Geophysical Research Letters</i> , 1999, 26, 855-858.	1.5	326
7	North Pacific regime shifts: Definitions, issues and recent transitions. <i>Progress in Oceanography</i> , 2008, 77, 92-102.	1.5	200
8	Spatio-temporal structure of the pentadecadal variability over the North Pacific. <i>Progress in Oceanography</i> , 2000, 47, 381-408.	1.5	189
9	Atmospheric Response to the Gulf Stream: Seasonal Variations*. <i>Journal of Climate</i> , 2010, 23, 3699-3719.	1.2	155
10	Upper ocean O <sub>2</sub> trends: 1958-2015. <i>Geophysical Research Letters</i> , 2017, 44, 4214-4223.	1.5	133
11	Permanent El Niño during the Pliocene warm period not supported by coral evidence. <i>Nature</i> , 2011, 471, 209-211.	13.7	119
12	The Benefits of Global High Resolution for Climate Simulation: Process Understanding and the Enabling of Stakeholder Decisions at the Regional Scale. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 2341-2359.	1.7	107
13	Storm-Track Response to SST Fronts in the Northwestern Pacific Region in an AGCM. <i>Journal of Climate</i> , 2017, 30, 1081-1102.	1.2	103
14	The atmospheric frontal response to SST perturbations in the Gulf Stream region. <i>Geophysical Research Letters</i> , 2016, 43, 2299-2306.	1.5	89
15	Influence of the Kuroshio in the East China Sea on the Early Summer (Baiu) Rain. <i>Journal of Climate</i> , 2012, 25, 6627-6645.	1.2	83
16	Response of Storm Tracks to Bimodal Kuroshio Path States South of Japan. <i>Journal of Climate</i> , 2012, 25, 7772-7779.	1.2	82
17	Interdecadal variations in Japanese sardine and ocean/climate. <i>Fisheries Oceanography</i> , 1999, 8, 18-24.	0.9	81
18	Interannual to interdecadal changes in the Bering Sea and concurrent 1998/99 changes over the North Pacific. <i>Progress in Oceanography</i> , 2002, 55, 45-64.	1.5	81

#	ARTICLE	IF	CITATIONS
19	Precipitation Response to the Gulf Stream in an Atmospheric GCM*. Journal of Climate, 2010, 23, 3676-3698.	1.2	81
20	Interannual to Interdecadal Variability in the Japan Sea Based on a New Gridded Upper Water Temperature Dataset. Journal of Physical Oceanography, 2004, 34, 2382-2397.	0.7	76
21	Interdecadal modulation of interannual atmospheric and oceanic variability over the North Pacific. Progress in Oceanography, 1999, 43, 163-192.	1.5	73
22	Decadal Response of the Kuroshio Extension Jet to Rossby Waves: Observation and Thin-Jet Theory*. Journal of Physical Oceanography, 2013, 43, 442-456.	0.7	70
23	Climate-forced seasonal mismatch between the hatching of rhinoceros auklets and the availability of anchovy. Marine Ecology - Progress Series, 2009, 393, 259-271.	0.9	58
24	Responses of piscivorous seabirds at the Pribilof Islands to ocean climate. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 1856-1867.	0.6	56
25	Challenges and opportunities for improved understanding of regional climate dynamics. Nature Climate Change, 2018, 8, 101-108.	8.1	56
26	Decadal Sea Level Variability in the South Pacific in a Global Eddy-Resolving Ocean Model Hindcast. Journal of Physical Oceanography, 2008, 38, 1731-1747.	0.7	55
27	Sea Level and the Role of Coastal Trapped Waves in Mediating the Influence of the Open Ocean on the Coast. Surveys in Geophysics, 2019, 40, 1467-1492.	2.1	55
28	Global analysis of the pressure adjustment mechanism over sea surface temperature fronts using AIRS/Aqua data. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	54
29	The influence of the Gulf Stream on wintertime European blocking. Climate Dynamics, 2016, 47, 1545-1567.	1.7	53
30	The Gulf Stream influence on wintertime North Atlantic jet variability. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 173-183.	1.0	52
31	Towards Comprehensive Observing and Modeling Systems for Monitoring and Predicting Regional to Coastal Sea Level. Frontiers in Marine Science, 2019, 6, .	1.2	51
32	Dynamical downscaling of future sea level change in the western North Pacific using ROMS. Journal of Oceanography, 2016, 72, 905-922.	0.7	43
33	Marine Heatwave of Sea Surface Temperature of the Oyashio Region in Summer in 2010-2016. Frontiers in Marine Science, 2021, 7, .	1.2	42
34	Decadal sea level variability along the coast of Japan in response to ocean circulation changes. Journal of Geophysical Research: Oceans, 2014, 119, 266-275.	1.0	38
35	Diagnostics for near-surface wind convergence/divergence response to the Gulf Stream in a regional atmospheric model. Atmospheric Science Letters, 2012, 13, 16-21.	0.8	35
36	Simulating the Midlatitude Atmospheric Circulation: What Might We Gain From High-Resolution Modeling of Air-Sea Interactions?. Current Climate Change Reports, 2019, 5, 390-406.	2.8	35

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37	Climatological mean features and interannual to decadal variability of ring formations in the Kuroshio Extension region. <i>Journal of Oceanography</i> , 2015, 71, 499-509.	0.7	32
38	Western Boundary Sea Level: A Theory, Rule of Thumb, and Application to Climate Models. <i>Journal of Physical Oceanography</i> , 2017, 47, 957-977.	0.7	31
39	Maximal Wavelet Filter and Its Application to Bidecadal Oscillation over the Northern Hemisphere through the Twentieth Century. <i>Journal of Climate</i> , 2002, 15, 1064-1075.	1.2	27
40	Decadal variability of the upper ocean heat content in the East/Japan Sea and its possible relationship to northwestern Pacific variability. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	27
41	A 1° monthly gridded sea-surface temperature dataset compiled from ICOADS from 1850 to 2002 and Northern Hemisphere frontal variability. <i>International Journal of Climatology</i> , 2005, 25, 881-894.	1.5	25
42	North Pacific halocline and cold climate induced by Panamanian Gateway closure in a coupled ocean-atmosphere GCM. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	24
43	Uncertainties in Long-Term Twenty-First Century Process-Based Coastal Sea-Level Projections. <i>Surveys in Geophysics</i> , 2019, 40, 1655-1671.	2.1	24
44	Reproductive success of planktivorous seabirds in the North Pacific is related to ocean climate on decadal scales. <i>Marine Ecology - Progress Series</i> , 2011, 424, 205-218.	0.9	24
45	Seasonally dependent interannual variability of sea ice in the Bering Sea and its relation to atmospheric fluctuations. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	20
46	Southward Eddy Heat Transport Occurring along Southern Flanks of the Kuroshio Extension and the Gulf Stream in a 1/10° Global Ocean General Circulation Model. <i>Journal of Physical Oceanography</i> , 2013, 43, 1899-1910.	0.7	20
47	“Hot Spots” in the climate system—new developments in the extratropical ocean-atmosphere interaction research: a short review and an introduction. <i>Journal of Oceanography</i> , 2015, 71, 463-467.	0.7	20
48	Global structure of Bidecadal precipitation variability in boreal winter. <i>Geophysical Research Letters</i> , 2002, 29, 35-1-35-4.	1.5	19
49	Diagnostics for Near-Surface Wind Response to the Gulf Stream in a Regional Atmospheric Model*. <i>Journal of Climate</i> , 2015, 28, 238-255.	1.2	19
50	Annual period equatorial waves in the Pacific Ocean. <i>Journal of Geophysical Research</i> , 1995, 100, 18379.	3.3	18
51	Interannual variability of the Korea Strait Bottom Cold Water and its relationship with the upper water temperatures and atmospheric forcing in the Sea of Japan (East Sea). <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	17
52	Oceanic influence on the Baiu frontal zone in the East China Sea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 449-463.	1.2	17
53	Mechanisms of Low-Frequency Oxygen Variability in the North Pacific. <i>Global Biogeochemical Cycles</i> , 2019, 33, 110-124.	1.9	17
54	Autumn atmospheric preconditioning for interannual variability of wintertime sea-ice in the Okhotsk Sea. <i>Journal of Oceanography</i> , 2007, 63, 255-265.	0.7	16

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55	Diurnal precipitation and high cloud frequency variability over the Gulf Stream and over the Kuroshio. <i>Climate Dynamics</i> , 2015, 44, 2079-2095.	1.7	16
56	An east-west contrast of upper ocean heat content variation south of the subpolar front in the East/Japan Sea. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 6418-6443.	1.0	16
57	Influence of the Kuroshio on Mesoscale Convective Systems in the Baiu Frontal Zone over the East China Sea. <i>Monthly Weather Review</i> , 2016, 144, 1017-1033.	0.5	16
58	Sea Level Variability around Japan during the Twentieth Century Simulated by a Regional Ocean Model. <i>Journal of Climate</i> , 2017, 30, 5585-5595.	1.2	16
59	Relations between Interannual Variability of Regional-Scale Indonesian Precipitation and Large-Scale Climate Modes during 1960-2007. <i>Journal of Climate</i> , 2020, 33, 5271-5291.	1.2	15
60	Marine Ecosystem Variations Over the North Pacific and Their Linkage to Large-Scale Climate Variability and Change. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	14
61	Mechanisms of Future Changes in Equatorial Upwelling: CMIP5 Intermodel Analysis. <i>Journal of Climate</i> , 2020, 33, 497-510.	1.2	13
62	Interannual to Decadal Variability of the Upper-Ocean Heat Content in the Western North Pacific and Its Relationship to Oceanic and Atmospheric Variability. <i>Journal of Climate</i> , 2018, 31, 5107-5125.	1.2	12
63	Ocean Climate Observing Requirements in Support of Climate Research and Climate Information. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	12
64	Influence of model resolution on bomb cyclones revealed by HighResMIP-PRIMAVERA simulations. <i>Environmental Research Letters</i> , 2020, 15, 084001.	2.2	12
65	Interannual to decadal variability in the southern Okhotsk Sea based on a new gridded upper water temperature data set. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	11
66	Coupled Ocean-Atmosphere Response to Idealized Freshwater Forcing over the Western Tropical Pacific. <i>Journal of Climate</i> , 2010, 23, 1945-1954.	1.2	11
67	Diurnal Cycles of Precipitation and Lightning in the Tropics Observed by TRMM3G68, GSMaP, LIS, and WWLLN. <i>Journal of Climate</i> , 2020, 33, 4293-4313.	1.2	11
68	Intraseasonal variability of sea-ice concentration in the Antarctic with particular emphasis on wind effect. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	10
69	Generation of interannual and interdecadal climate oscillations through nonlinear subharmonic resonance in delayed oscillators. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	9
70	Decadal Vision in Oceanography (I). <i>Oceanography in Japan</i> , 2013, 22, 191-218.	0.5	8
71	Projected sea level rise, gyre circulation and water mass formation in the western North Pacific: CMIP5 inter-model analysis. <i>Climate Dynamics</i> , 2018, 50, 4767-4782.	1.7	8
72	Transient and local weakening of surface winds observed above the Kuroshio front in the winter East China Sea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1277-1291.	1.2	7

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73	AIR-SEA INTERACTION OVER THE WESTERN BOUNDARY CURRENTS IN THE WESTERN NORTH PACIFIC. World Scientific Series on Asia-Pacific Weather and Climate, 2016, , 187-211.	0.2	6
74	Year-To-Year Variability in the Hadley and Walker Circulations from NCEP/NCAR Reanalysis Data. Advances in Global Change Research, 2004, , 153-171.	1.6	6
75	Numerical Experiments of Isolated Convection under Polynya. Journal of Oceanography, 2004, 60, 927-943.	0.7	5
76	Moisture Balance for Bidecadal Variability of Wintertime Precipitation in the North Pacific Using NCEP/NCAR Reanalysis. Journal of the Meteorological Society of Japan, 2005, 83, 453-469.	0.7	4
77	Detection of an Annual Westward Propagating Signal in the Meridional Wind Component along 8°N in the Pacific. Journal of Climate, 1996, 9, 1661-1668.	1.2	3
78	Buoyancy- and Wind-Driven Circulation in an Extended Model of Potential Vorticity Homogenization. Journal of Physical Oceanography, 2000, 30, 2391-2403.	0.7	3
79	Origin of intraseasonal variability in the eastern equatorial Indian Ocean: intrinsic variability and local and remote wind stress forcings. Journal of Oceanography, 2019, 75, 119-137.	0.7	3
80	Sea surface temperature predictability in the North Pacific from multi-model seasonal forecast. Journal of Oceanography, 2021, 77, 897.	0.7	3
81	Climatological mean features and interannual to decadal variability of ring formations in the Kuroshio Extension region. , 2016, , 31-41.		2
82	Challenges and opportunities for improved understanding of regional climate dynamics. , 0, .		1
83	A semi-analytical model of barotropic and baroclinic flows for an open Panama Gateway. Dynamics of Atmospheres and Oceans, 2010, 50, 55-77.	0.7	0
84	From the Perspective on Climate Change and Variability. Trends in the Sciences, 2021, 26, 1_28-1_34.	0.0	0
85	Analytical studies from processes to decadal scale air-sea coupled variability. Oceanography in Japan, 2014, 23, 147-169.	0.5	0