

# Robert C Beardsley

## List of Publications by Year in descending order

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57  
papers

4,236  
citations

147566

31  
h-index

143772

57  
g-index

57  
all docs

57  
docs citations

57  
times ranked

3327  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Unstructured Grid, Finite-Volume, Three-Dimensional, Primitive Equations Ocean Model: Application to Coastal Ocean and Estuaries. <i>Journal of Atmospheric and Oceanic Technology</i> , 2003, 20, 159-186.	0.5	1,343
2	The Current System in the Yellow and East China Seas. <i>Journal of Oceanography</i> , 2002, 58, 77-92.	0.7	388
3	A finite volume numerical approach for coastal ocean circulation studies: Comparisons with finite difference models. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	202
4	Physical-biological sources for dense algal blooms near the Changjiang River. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	135
5	Saltwater intrusion into the Changjiang River: A model-guided mechanism study. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	131
6	An unstructured-grid finite-volume surface wave model (FVCOM-SWAVE): Implementation, validations and applications. <i>Ocean Modelling</i> , 2009, 28, 153-166.	1.0	128
7	On the characteristics of Circumpolar Deep Water intrusions to the west Antarctic Peninsula Continental Shelf. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	109
8	Physical mechanisms for the offshore detachment of the Changjiang Diluted Water in the East China Sea. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	104
9	Zonal surface wind jets across the Red Sea due to mountain gap forcing along both sides of the Red Sea. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	101
10	Tidal dynamics in the Gulf of Maine and New England Shelf: An application of FVCOM. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	86
11	Complexity of the flooding/drying process in an estuarine tidal-creek salt-marsh system: An application of FVCOM. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	79
12	A new high-resolution unstructured grid finite volume Arctic Ocean model (AO-FVCOM): An application for tidal studies. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	70
13	A nonhydrostatic version of FVCOM: 1. Validation experiments. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	69
14	Coastal flooding in Scituate (MA): A FVCOM study of the 27 December 2010 nor'easter. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6030-6045.	1.0	66
15	FVCOM validation experiments: Comparisons with ROMS for three idealized barotropic test problems. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	64
16	Impact of current-wave interaction on storm surge simulation: A case study for Hurricane Bob. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2685-2701.	1.0	57
17	Extratropical storm inundation testbed: Intermodel comparisons in Scituate, Massachusetts. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 5054-5073.	1.0	55
18	Influence of ocean freshening on shelf phytoplankton dynamics. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	54

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19	Circulation in the Arctic Ocean: Results from a high-resolution coupled ice-sea nested Global-FVCOM and Arctic-FVCOM system. <i>Progress in Oceanography</i> , 2016, 141, 60-80.	1.5	52
20	Modeling the influence of low-salinity water inflow on winter-spring phytoplankton dynamics in the Nova Scotian Shelfâ€“Gulf of Maine region. <i>Journal of Plankton Research</i> , 2008, 30, 1399-1416.	0.8	50
21	Current separation and upwelling over the southeast shelf of Vietnam in the South China Sea. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	48
22	An estimate of the cross-frontal transport at the shelf break of the East China Sea with the Finite Volume Coastal Ocean Model. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	47
23	Winter marine atmospheric conditions over the Japan Sea. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	45
24	Using MM5 to Hindcast the Ocean Surface Forcing Fields over the Gulf of Maine and Georges Bank Region*. <i>Journal of Atmospheric and Oceanic Technology</i> , 2005, 22, 131-145.	0.5	39
25	An unstructured-grid, finite-volume sea ice model: Development, validation, and application. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	39
26	Wind-induced interannual variability of sea level slope, along-shelf flow, and surface salinity on the Northwest Atlantic shelf. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 2462-2479.	1.0	38
27	A nonhydrostatic version of FVCOM: 2. Mechanistic study of tidally generated nonlinear internal waves in Massachusetts Bay. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	36
28	Shoaling of nonlinear internal waves in Massachusetts Bay. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	35
29	Application and comparison of Kalman filters for coastal ocean problems: An experiment with FVCOM. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	34
30	Impact of multichannel river network on the plume dynamics in the <a href="#">Pearl River</a> estuary. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 5766-5789.	1.0	33
31	Observational and model studies of the circulation in the Gulf of Tonkin, South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6495-6510.	1.0	32
32	Comparison of observed and modelâ€“computed low frequency circulation and hydrography on the New England Shelf. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	31
33	Properties of flow and pressure over Georges Bank as observed with near-surface drifters. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	28
34	Process modeling studies of physical mechanisms of the formation of an anticyclonic eddy in the central Red Sea. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1445-1464.	1.0	28
35	Model study of nutrient and phytoplankton dynamics in the Gulf of Maine: patterns and drivers for seasonal and interannual variability. <i>ICES Journal of Marine Science</i> , 2015, 72, 388-402.	1.2	26
36	Atmosphere and Marginal-Sea Interaction Leading to an Interannual Variation in Cold-Air Outbreak Activity over the Japan Sea. <i>Journal of Climate</i> , 2007, 20, 5707-5714.	1.2	25

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37	Observing system simulation experiments with ensemble Kalman filters in Nantucket Sound, Massachusetts. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	25
38	Downwelling wind, tides, and estuarine plume dynamics. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 4245-4263.	1.0	25
39	Studies of the Canadian Arctic Archipelago water transport and its relationship to basin-local forcings: Results from AO-FVCOM. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 4392-4415.	1.0	24
40	Title is missing!. <i>Journal of Oceanography</i> , 2002, 58, 403-420.	0.7	23
41	Surface forcing on the southern flank of Georges Bank, February–August 1995. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	21
42	Influence of diurnal heating on stratification and residual circulation of Georges Bank. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	20
43	A model dye comparison experiment in the tidal mixing front zone on the southern flank of Georges Bank. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	20
44	Observing system simulation experiments of dissolved oxygen monitoring in Massachusetts Bay. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	19
45	Seasonal and interannual variability of the Arctic sea ice: A comparison between AO-FVCOM and observations. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 8320-8350.	1.0	19
46	Applications of an unstructured grid surface wave model (FVCOM-SWAVE) to the Arctic Ocean: The interaction between ocean waves and sea ice. <i>Ocean Modelling</i> , 2020, 145, 101532.	1.0	18
47	Slope water intrusions onto Georges Bank. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	15
48	Model study of the cross-frontal water exchange on Georges Bank: A three-dimensional Lagrangian experiment. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	15
49	Observed wintertime tidal and subtidal currents over the continental shelf in the northern South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 5289-5310.	1.0	14
50	Modeling North Atlantic Nor'easters With Modern Wave Forecast Models. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 533-557.	1.0	14
51	Impact of larval behaviors on dispersal and connectivity of sea scallop larvae over the northeast U.S. shelf. <i>Progress in Oceanography</i> , 2021, 195, 102604.	1.5	14
52	FVCOM one-way and two-way nesting using ESMF: Development and validation. <i>Ocean Modelling</i> , 2018, 124, 94-110.	1.0	13
53	Slope-Intensified Storm-Induced Near-Inertial Oscillations in the South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016713.	1.0	9
54	A view of physical mechanisms for transporting harmful algal blooms to Massachusetts Bay. <i>Marine Pollution Bulletin</i> , 2020, 154, 111048.	2.3	8

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55	Observational and modeling studies of oceanic responses and feedbacks to typhoons Hato and Mangkhut over the northern shelf of the South China Sea. <i>Progress in Oceanography</i> , 2021, 191, 102507.	1.5	6
56	Impacts of Oceanic Mixed Layer on Hurricanes: A Simulation Experiment With Hurricane Sandy. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015851.	1.0	5
57	Role of sea level pressure in variations of the Canadian Arctic Archipelago throughflow. <i>Advances in Climate Change Research</i> , 2021, 12, 539-552.	2.1	2