Don P Chambers

List of Publications by Year
in descending order

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Version: 2024-02-01

70 papers	6,154 citations	109137 35 h-index	102304 66 g-index
81 all docs	81 docs citations	81 times ranked	5281 citing authors

#	Article	IF	Citations
1	Estimating geocenter variations from a combination of GRACE and ocean model output. Journal of Geophysical Research, 2008, 113, .	3.3	665
2	Contributions of GRACE to understanding climate change. Nature Climate Change, 2019, 9, 358-369.	8.1	536
3	GGM02 â€“ An improved Earth gravity field model from GRACE. Journal of Geodesy, 2005, 79, 467-478.	1.6	511
4	Estimating Mean Sea Level Change from the TOPEX and Jason Altimeter Missions. Marine Geodesy, 2010, 33, 435-446.	0.9	414
5	Preliminary observations of global ocean mass variations with GRACE. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	235
6	Mean Dynamic Topography of the Ocean Derived from Satellite and Drifting Buoy Data Using Three Different Techniques*. Journal of Atmospheric and Oceanic Technology, 2009, 26, 1910-1919.	0.5	233
7	Assessing the globally averaged sea level budget on seasonal to interannual timescales. Journal of Geophysical Research, 2008, 113, .	3.3	185
8	Evaluation of new GRACE time-variable gravity data over the ocean. Geophysical Research Letters, 2006, 33, .	1.5	183
9	GRACE, time-varying gravity, Earth system dynamics and climate change. Reports on Progress in Physics, 2014, 77, 116801.	8.1	171
10	Evaluation of groundwater storage monitoring with the GRACE satellite: Case study of the High Plains aquifer, central United States. Water Resources Research, 2009, 45, .	1.7	168
11	Is there a 60â€year oscillation in global mean sea level?. Geophysical Research Letters, 2012, 39, .	1.5	163
12	GRACE-Based Estimates of Terrestrial Freshwater Discharge from Basin to Continental Scales. Journal of Hydrometeorology, 2009, 10, 22-40.	0.7	157
13	Evaluation of Release-05 GRACE time-variable gravity coefficients over the ocean. Ocean Science, 2012, 8, 859-868.	1.3	144
14	Observing seasonal steric sea level variations with GRACE and satellite altimetry. Journal of Geophysical Research, 2006, 111, .	3.3	138
15	Satellite-based global-ocean mass balance estimates of interannual variability and emerging trends in continental freshwater discharge. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17916-17921.	3.3	136
16	Recent increases in Arctic freshwater flux affects Labrador Sea convection and Atlantic overturning circulation. Nature Communications, 2016, 7, 10525.	5.8	130
17	State of the Climate in 2012. Bulletin of the American Meteorological Society, 2013, 94, S1-S258.	1.7	129
18	Evaluation of the Global Mean Sea Level Budget between 1993 and 2014. Surveys in Geophysics, 2017, 38, 309-327.	2.1	122

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19	Recent trends in the <scp>S</scp>outhern <scp>O</scp>cean eddy field. Journal of Geophysical Research: Oceans, 2015, 120, 257-267.	1.0	120
20	Variations in global mean sea level associated with the 1997-1998 ENSO event: Implications for measuring long term sea level change. Geophysical Research Letters, 1999, 26, 3005-3008.	1.5	110
21	Ocean bottom pressure seasonal cycles and decadal trends from GRACE Releaseâ€05: Ocean circulation implications. Journal of Geophysical Research: Oceans, 2013, 118, 4228-4240.	1.0	85
22	Ocean mass from GRACE and glacial isostatic adjustment. Journal of Geophysical Research, 2010, 115, .	3.3	83
23	Evidence for multidecadal variability in <scp>US</scp> extreme sea level records. Journal of Geophysical Research: Oceans, 2015, 120, 1527-1544.	1.0	82
24	Quantifying recent acceleration in sea level unrelated to internal climate variability. Geophysical Research Letters, 2013, 40, 3661-3666.	1.5	80
25	The effect of the NAO on sea level and on mass changes in the Mediterranean Sea. Journal of Geophysical Research: Oceans, 2013, 118, 944-952.	1.0	75
26	Understanding of Contemporary Regional Seaâ€Level Change and the Implications for the Future. Reviews of Geophysics, 2020, 58, e2019RG000672.	9.0	74
27	Hydrological and oceanic effects on polar motion from GRACE and models. Journal of Geophysical Research, 2010, 115, .	3.3	60
28	Consistency of the current global ocean observing systems from an Argo perspective. Ocean Science, 2014, 10, 547-557.	1.3	54
29	On the ability of global sea level reconstructions to determine trends and variability. Journal of Geophysical Research: Oceans, 2014, 119, 1572-1592.	1.0	54
30	Climate controls multidecadal variability in <scp>U. S.</scp> extreme sea level records. Journal of Geophysical Research: Oceans, 2016, 121, 1274-1290.	1.0	51
31	Measuring ocean mass variability from satellite gravimetry. Journal of Geodynamics, 2011, 52, 333-343.	0.7	43
32	Effects of ice melting on GRACE observations of ocean mass trends. Geophysical Research Letters, 2007, 34, .	1.5	39
33	A Global Evaluation of Ocean Bottom Pressure from GRACE, OMCT, and Steric-Corrected Altimetry. Journal of Atmospheric and Oceanic Technology, 2010, 27, 1395-1402.	0.5	39
34	Interâ€annual to decadal seaâ€level variability in the coastal zones of the Norwegian and Siberian Seas: The role of atmospheric forcing. Journal of Geophysical Research: Oceans, 2013, 118, 1287-1301.	1.0	39
35	Relative contributions of ocean mass and deep steric changes to sea level rise between 1993 and 2013. Journal of Geophysical Research: Oceans, 2014, 119, 7509-7522.	1.0	37
36	Analysis of largeâ€scale ocean bottom pressure variability in the North Pacific. Journal of Geophysical Research, 2008, 113, .	3.3	36

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37	Uncertainty estimates of a GRACE inversion modelling technique over Greenland using a simulation. Geophysical Journal International, 2013, 194, 212-229.	1.0	35
38	Calculating trends from GRACE in the presence of large changes in continental ice storage and ocean mass. Geophysical Journal International, 2009, 176, 415-419.	1.0	33
39	Observational Requirements for Long-Term Monitoring of the Global Mean Sea Level and Its Components Over the Altimetry Era. Frontiers in Marine Science, 2019, 6, .	1.2	31
40	Coastal Sea Level and Related Fields from Existing Observing Systems. Surveys in Geophysics, 2019, 40, 1293-1317.	2.1	31
41	Storm Surge Reconstruction and Return Water Level Estimation in Southeast Asia for the 20th Century. Journal of Geophysical Research: Oceans, 2018, 123, 437-451.	1.0	27
42	A high resolution satelliteâ€•only GRACEâ€‐based mean dynamic topography of the South Atlantic Ocean. Geophysical Research Letters, 2007, 34, .	1.5	24
43	Lowâ€frequency exchange of mass between ocean basins. Journal of Geophysical Research, 2009, 114, .	3.3	24
44	Evaluation of high-frequency oceanographic signal in GRACE data: Implications for de-aliasing. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	23
45	Evaluation of empirical mode decomposition for quantifying multi-decadal variations and acceleration in sea level records. Nonlinear Processes in Geophysics, 2015, 22, 157-166.	0.6	22
46	An extreme sea level indicator for the contiguous United States coastline. Scientific Data, 2019, 6, 326.	2.4	21
47	ENSO-correlated fluctuations in ocean bottom pressure and wind-stress curl in the North Pacific. Ocean Science, 2011, 7, 685-692.	1.3	20
48	Interannual mean sea level change and the Earth's water mass budget. Geophysical Research Letters, 2000, 27, 3073-3076.	1.5	19
49	Using ocean bottom pressure from the gravity recovery and climate experiment (GRACE) to estimate transport variability in the southern <scp>I</scp>ndian <scp>O</scp>cean. Journal of Geophysical Research: Oceans, 2015, 120, 4245-4259.	1.0	18
50	Analysis of seasonal ocean bottom pressure variability in the Gulf of Thailand from GRACE. Global and Planetary Change, 2010, 74, 76-81.	1.6	16
51	Using satellite laser ranging to measure ice mass change in Greenland and Antarctica. Cryosphere, 2018, 12, 71-79.	1.5	16
52	A New Hybrid Method for Estimating Hydrologically Induced Vertical Deformation From GRACE and a Hydrological Model: An Example From Central North America. Journal of Advances in Modeling Earth Systems, 2018, 10, 1196-1217.	1.3	15
53	Using kinetic energy measurements from altimetry to detect shifts in the positions of fronts in the Southern Ocean. Ocean Science, 2018, 14, 105-116.	1.3	15
54	Global Patterns of Spatial and Temporal Variability in Salinity from Multiple Gridded Argo Products. Journal of Climate, 2020, 33, 8751-8766.	1.2	13

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55	Hydrological impacts on seasonal sea level change. Global and Planetary Change, 2001, 32, 25-32.	1.6	12
56	Analysis of interannual and low-frequency variability in global mean sea level from altimetry and tide gauges. Physics and Chemistry of the Earth, 2002, 27, 1407-1411.	1.2	11
57	Reply to comment by W. R. Peltier et al. on â€œOcean mass from GRACE and glacial isostatic adjustmentâ€• Journal of Geophysical Research, 2012, 117, .	3.3	11
58	The Seasonality of Global Land and Ocean Mass and the Changing Water Cycle. Geophysical Research Letters, 2021, 48, e2020GL091248.	1.5	11
59	Regional Trends in Southern Ocean Eddy Kinetic Energy. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016973.	1.0	10
60	Southern Ocean velocity and geostrophic transport fields estimated by combining Jason altimetry and Argo data. Journal of Geophysical Research: Oceans, 2014, 119, 4761-4776.	1.0	7
61	Effect of Sea Level Variability on the Estimation of Mean Sea Surface Gradients. Marine Geodesy, 2002, 25, 273-288.	0.9	4
62	Surface and Subsurface Geostrophic Current Variability in the Indian Ocean from Altimetry. Marine Geodesy, 2009, 32, 19-29.	0.9	3
63	Quantifying the resolution level where the GRACE satellites can separate Greenland's glacial mass balance from surface mass balance. Cryosphere, 2015, 9, 1761-1772.	1.5	3
64	Mapping error in Southern Ocean transport computed from satellite altimetry and argo. Journal of Geophysical Research: Oceans, 2016, 121, 8063-8076.	1.0	1
65	Distinguishing Between Regression Model Fits to Global Mean Sea Level Reconstructions. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017347.	1.0	1
66	Thank You to Our 2017 Peer Reviewers. Journal of Geophysical Research: Oceans, 2018, 123, 6042-6052.	1.0	0
67	Thank You to Our 2019 Reviewers. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016312.	1.0	0
68	Thank You to Our 2020 Reviewers. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017288.	1.0	0
69	Water Cycle: Oceanâ€™s Role. , 0, , 882-886.		0
70	Thank You to Our 2021 Reviewers. Journal of Geophysical Research: Oceans, 2022, 127, .	1.0	0