Bibliometric analysis of 2014-2018 publications from Argo floats

Contents

1. Introduction

1.1. Study

This document proposes a set of bibliometric graphics about **1785 papers** published **between 2014 and 2018 that use data from the ARGO floats**.

1.2. Materials & Methodology

Bibliographic data: The list of papers (list of DOI) comes from Megan Scanderbeg monitoring (University of California).

Only the papers that have a DOI and that are indexed and retrieved in the *Web Of Science (WOS) Database* have been taken into account.
The list contains 4 091 DOI: 3 164 are retrieved in the WOS for all publication dates, in July 2019.

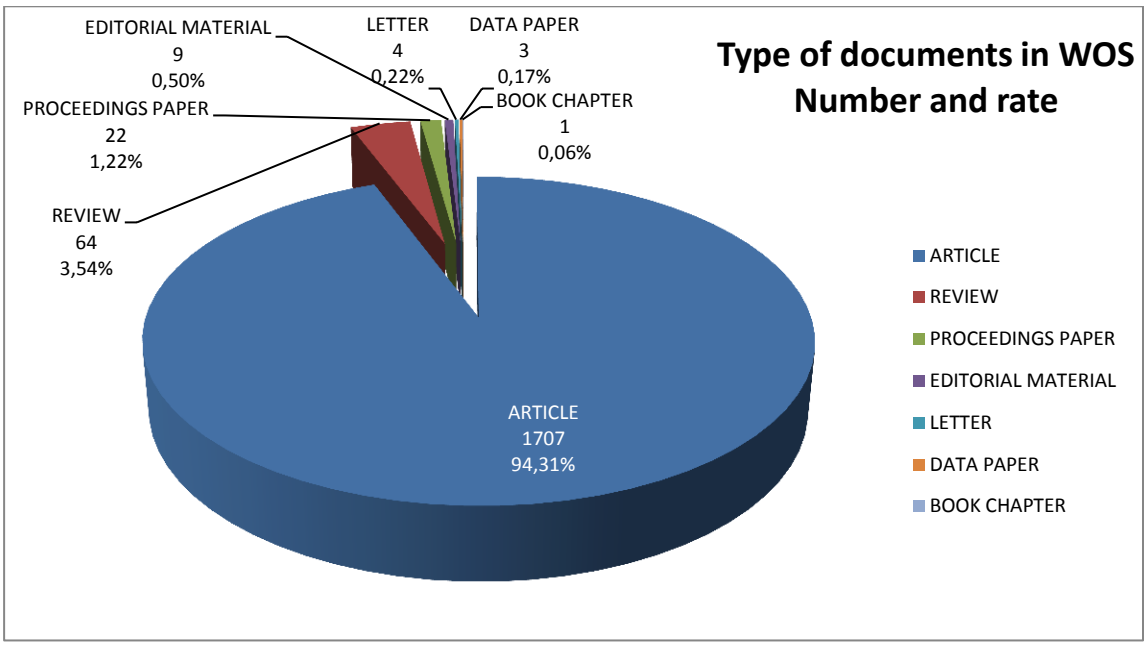
Data management and analysis: The graphs and figure are mainly obtained by Orbit Intellixir Software | IP Business Intelligence, Questel and Excel. Analysis is based on occurrences and co-occurences (network) in number of papers. For examples: number of papers in which appears a term from title&abstract or from keywords field (See Thematics analysis) ; number of papers per Journals ; or per author's affiliations (See Author's countries analysis and Author's Organization analysis).

2. Number of "Argo" publications

2.1. Number of publications between 2014 and 2018

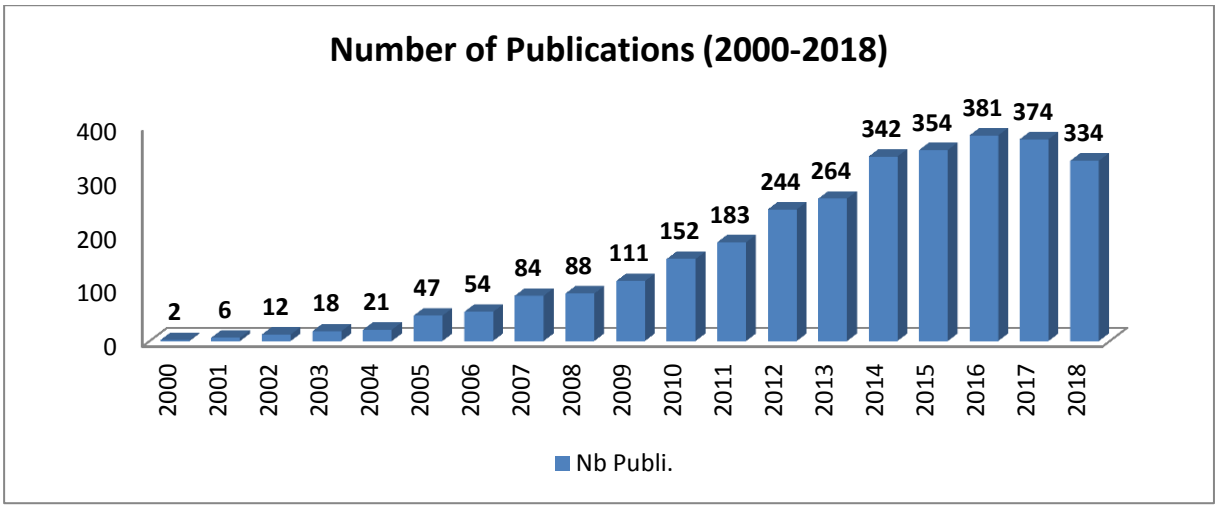
1785 papers that use the data from the ARGO floats, published **between 2014 and 2018,** are indexed in the Web Of Science (WOS) according to the list of DOI (from Megan Scanderbeg).

2.2. Type of documents in the WOS



2.3. Evolution of the number of publications between 2000 and 2018

Between 2014-2018, the average number of papers per year is 357.



3. Thematics

3.1. Main Concepts (Terms from Title and Abstract)

The concept [Sea surface temperature (SST)] brings together terms as *SST, SST data, Surface temperature*; the concept [Season] brings together terms as *Season, Seasonal, Intraseasonal, Seasonal cycle* ; The concept [Argo] brings together terms as *Argo float, Argo profile, Argo observation, Argo data, Argo program*.
All other terms without brackets are row data.

List

Terms	Nb Publi. (> 50)
Ocean	1413
Sea	1065
Model	869
Temperature	807
Variability	714
Salinity	618
Sea surface	597
Current	587
Depth	578
[Argo]	572
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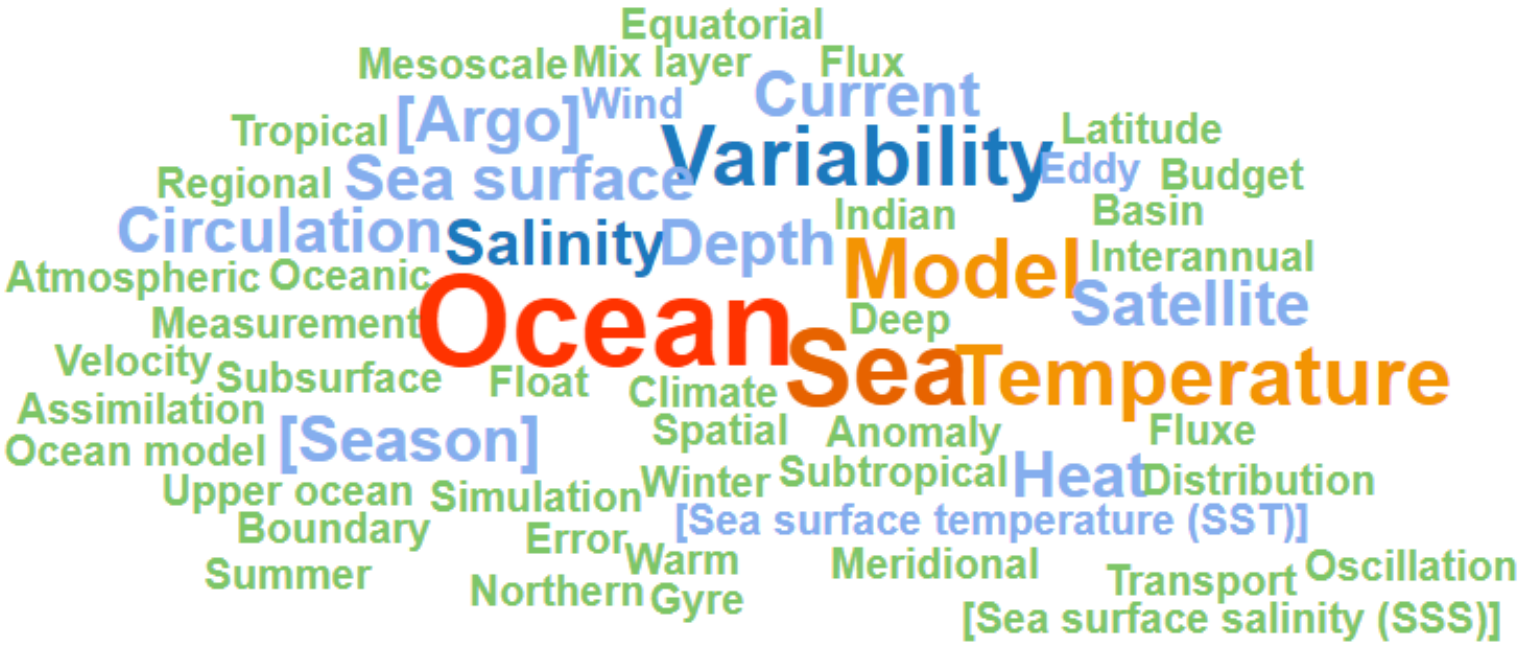
Sustain	51
Biomass	50
Equatorward	50
Radiation	50
Standard deviation	50
Surface wind	50
Weather	50

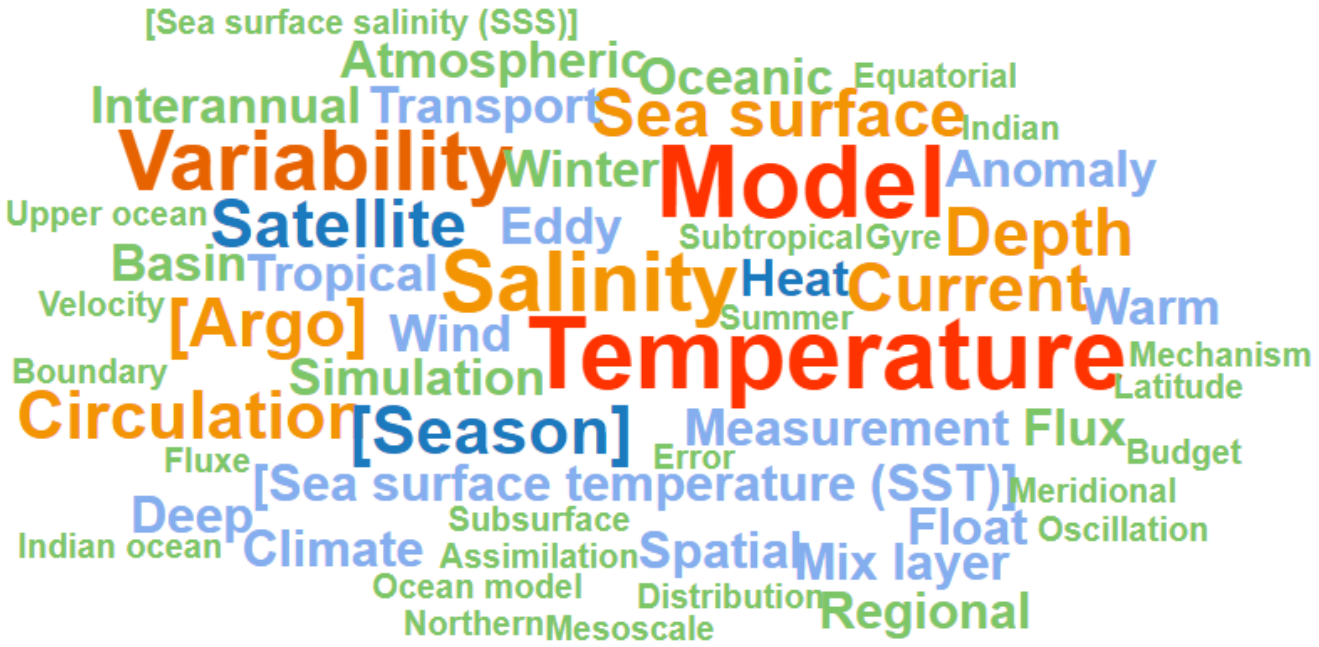
Figures

Top Concepts (occurred in more than 200 publications: 56 first terms)



Please see the table above (p. 9) for the number of occurrence of each term.

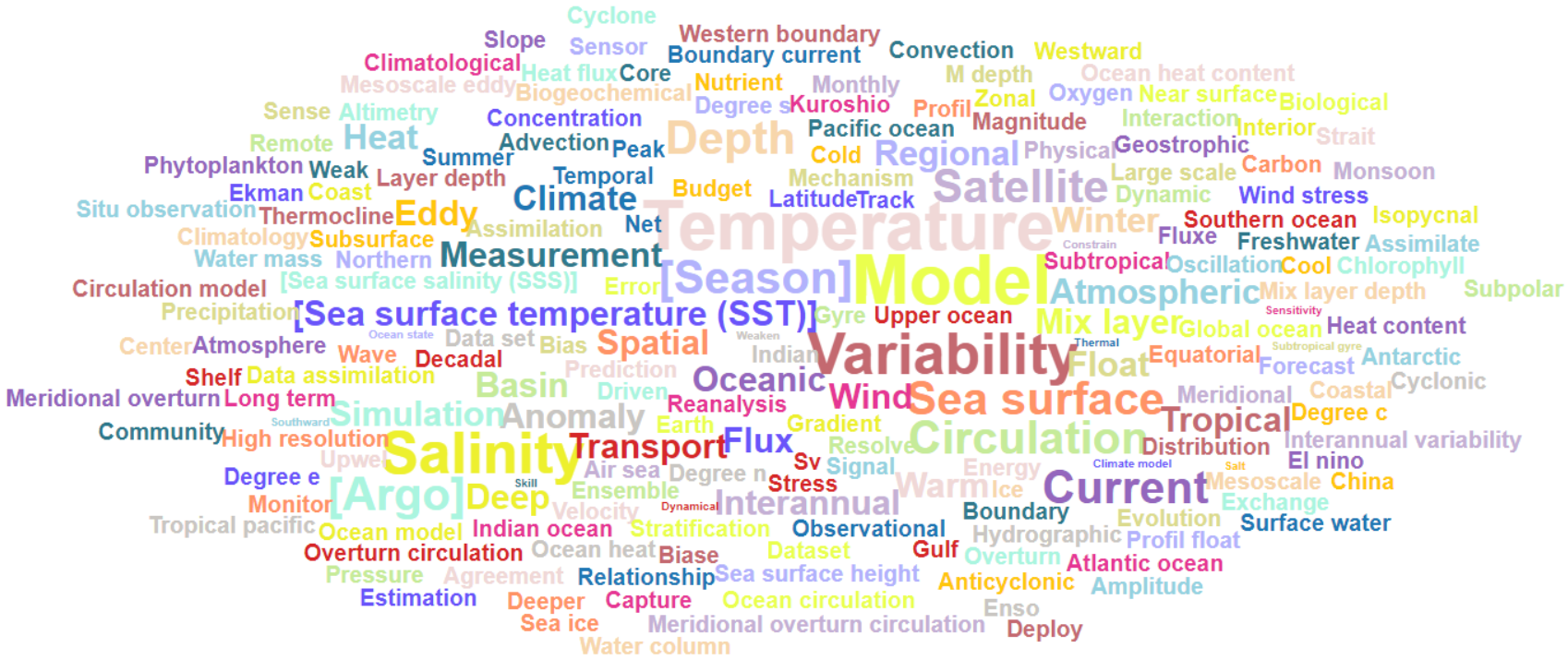
Without the terms Ocean and Sea



Alphabetic list

Anomaly | [Argo] | Assimilation | Atmospheric | Basin | Boundary | Budget | Circulation | Climate | Current | Deep | Depth | Distribution | Eddy | Equatorial | Error | Float | Flux | Fluxe | Gyre | Heat | Indian | Indian ocean | Interannual | Latitude | Measurement | Mechanism | Meridional | Mesoscale | Mix layer | Model | Northern | Ocean model | Oceanic | Oscillation | Regional | Salinity | Satellite | Sea surface | [Sea surface salinity (SSS)] | [Sea surface temperature (SST)] | [Season] | Simulation | Spatial | Subsurface | Subtropical | Summer | Temperature | Transport | Tropical | Upper ocean | Variability | Velocity | Warm | Wind | Winter

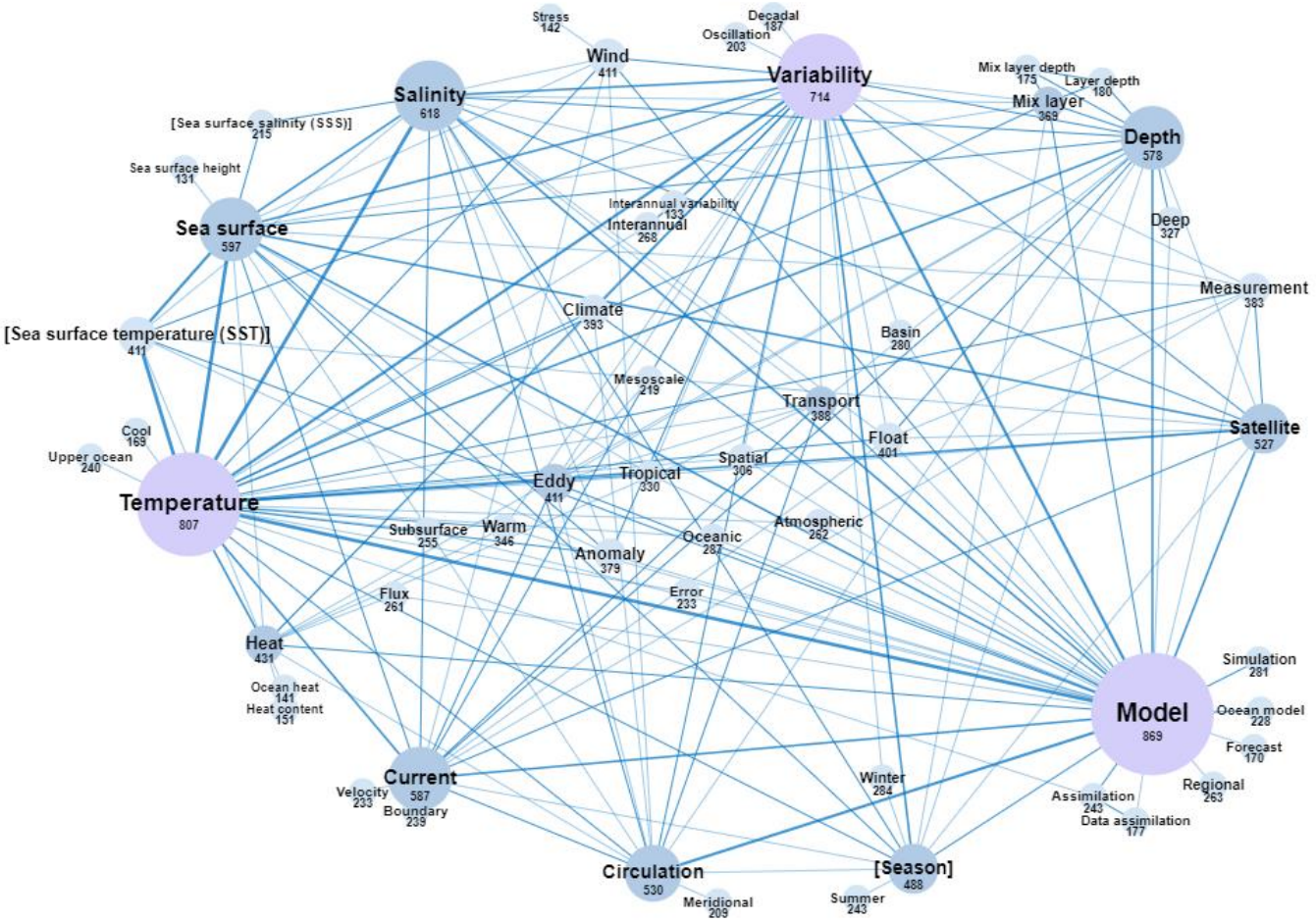
Top 200 Concepts (without Ocean, Sea)



Please see the table above (p. 9) for the number of occurrences of each term.

Network of main Concepts

at least 130 Co-Occurrences (without Ocean, Sea, Argo)



For example: 807 papers contain the term *Temperature* (in the title or the abstract). 618 papers contain the term *Salinity*.
At least 130 papers contain both terms *Temperature* and *Salinity*.

3.2. Main Keywords

Keywords means *Authors Keywords* and *Keywords Plus* from the Web Of Science database

List

Keywords occurred in more than 30 publications (101 first Keywords)

Keywords	Nb Publi. (> 30)
VARIABILITY	576
CIRCULATION	400
OCEAN	315
MODEL	295
TEMPERATURE	238
MIXED LAYER	174
SEA SURFACE TEMPERATURE	169
PACIFIC	159
NORTH ATLANTIC	151
SEA	141
SYSTEM	139
TRANSPORT	138
DYNAMICS	133
CLIMATE	132
WATER	121
IMPACT	118
INTERANNUAL VARIABILITY	111
EL NINO	109
Salinity	109
Argo	104
data assimilation	102
SURFACE	101
Atlantic	95
SOUTHERN OCEAN	95
MESOSCALE EDDIES	91
Eddies	88
INDIAN OCEAN	88
SEA SURFACE SALINITY	85
NORTH PACIFIC	84
ENSO	80
MERIDIONAL OVERTURNING CIRCULATION	74
CURRENTS	72
EDDY	70
GLOBAL OCEAN	67
REANALYSIS	66
TROPICAL PACIFIC	64
CLIMATE CHANGE	63
HEAT	62
PACIFIC OCEAN	62
TRENDS	60
OCEAN CIRCULATION	57
PART I	56
BARRIER LAYER	54
Satellite	54
EQUATORIAL PACIFIC	53
PHYTOPLANKTON	51
SOUTH CHINA SEA	51
Decadal variability	48
OSCILLATION	48
ANTARCTIC CIRCUMPOLAR CURRENT	47
Satellite altimetry	47
THERMOHALINE CIRCULATION	47
SEA LEVEL	46
LAYER	45
climatology	44
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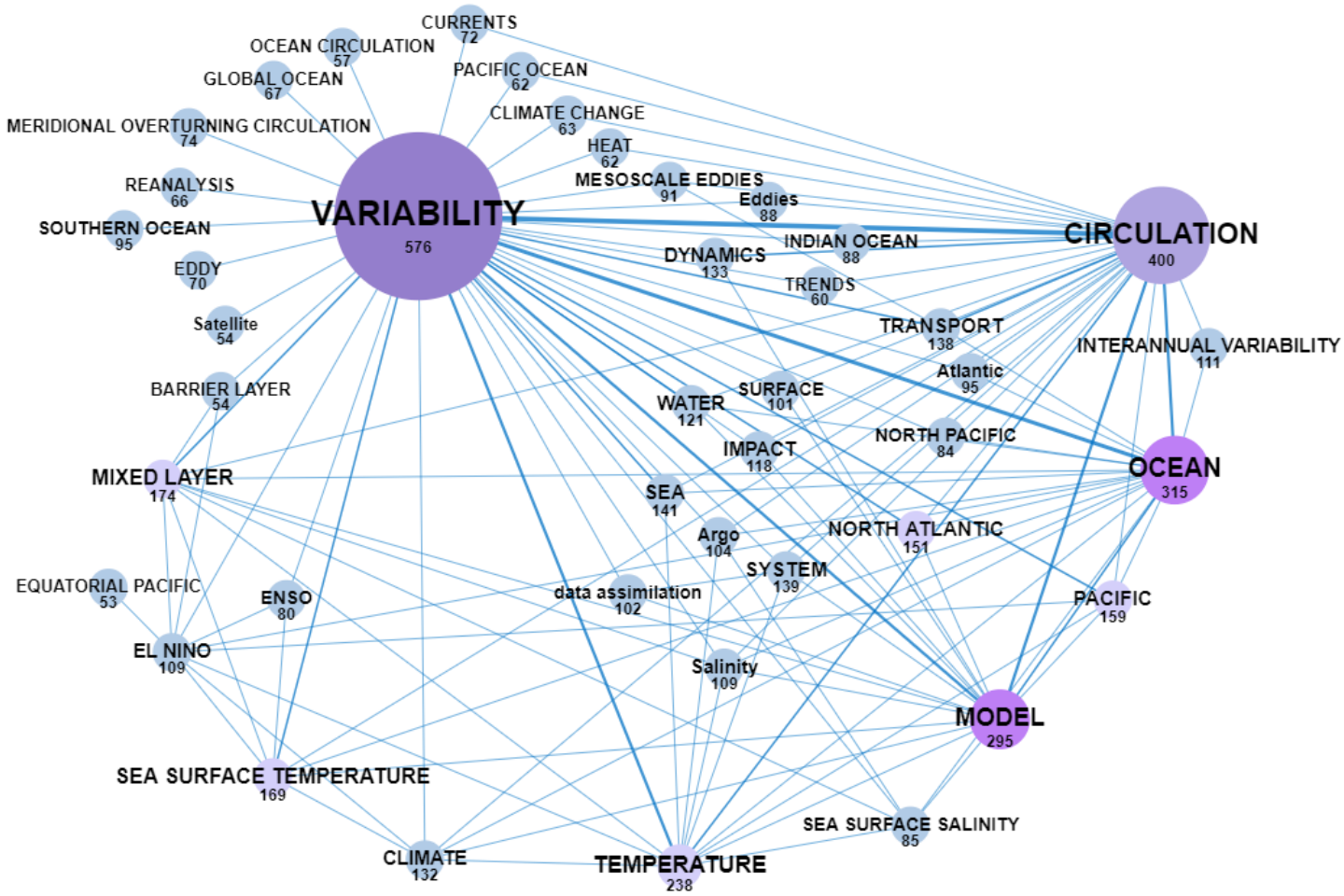
GENERAL CIRCULATION MODEL	43
KUROSHIO	43
SIMULATION	43
Aquarius	41
ASSIMILATION	41
BUDGET	41
PRECIPITATION	41
CONVECTION	40
MEDITERRANEAN SEA	40
PARAMETERIZATION	40
WIND	40
ARABIAN SEA	39
TURBULENCE	39
FLUX	38
VALIDATION	38

CYCLE	37
SUMMER MONSOON	37
ALTIMETRY	36
ATLANTIC OCEAN	36
HEAT CONTENT	36
SEASONAL VARIABILITY	36
CIRCULATION MODEL	35
CLIMATE VARIABILITY	35
HEAT TRANSPORT	35
MODELS	35
PREDICTION	35
WARM POOL	35
WATER MASSES	35
FLUXES	34
GYRE	34

SURFACE TEMPERATURE	34
GENERAL CIRCULATION	33
MIXED LAYER DEPTH	33
RESOLUTION	33
SMOS	33
THERMOCLINE	33
Chlorophyll	32
Gulf Stream	32
MONSOON	32
OVERTURNING CIRCULATION	32
profiling floats	32
SST	32
WATERS	32
Argo floats	31
NORTH ATLANTIC OCEAN	31

Network of main Keywords

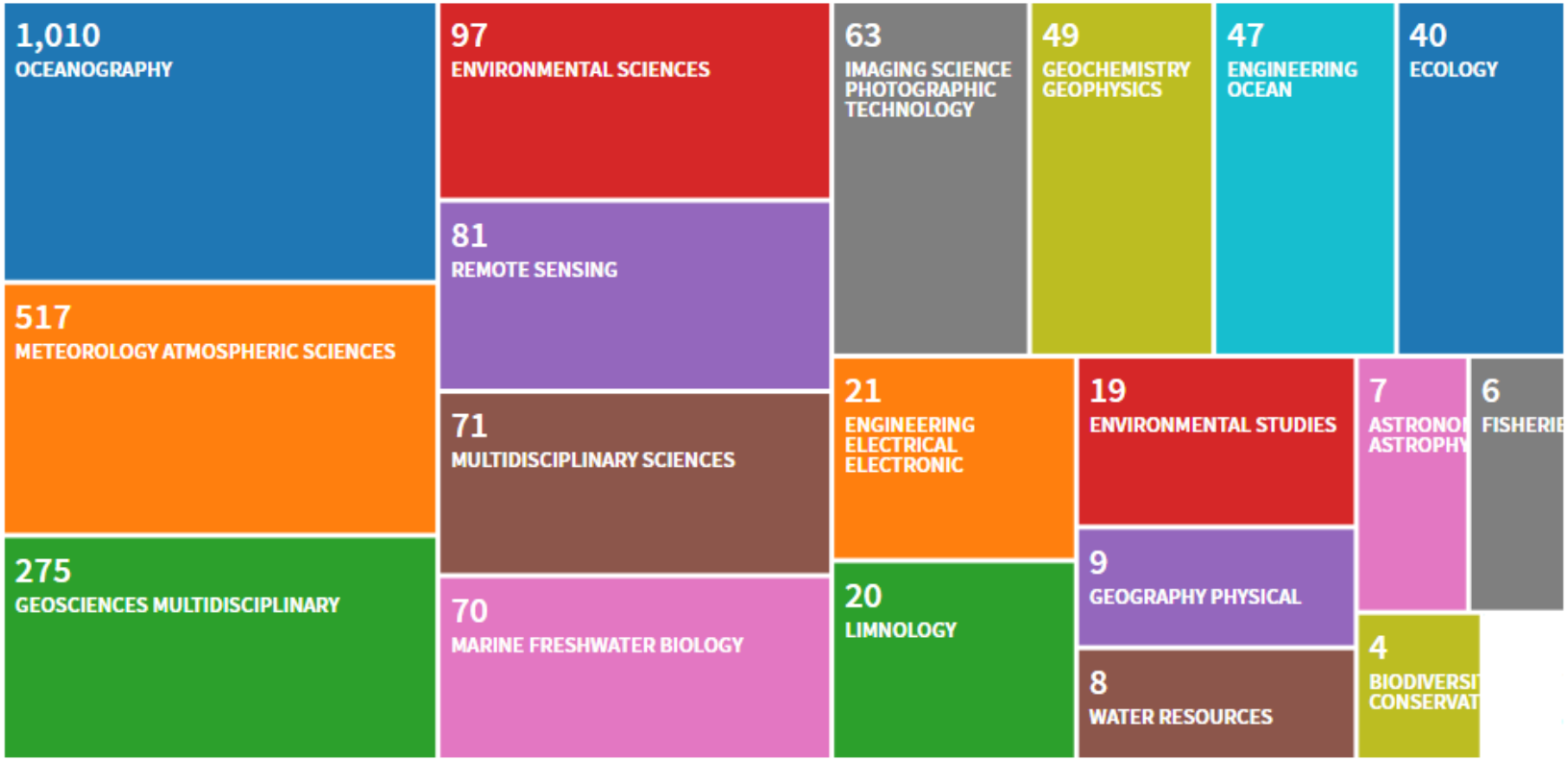
at least 50 Occurrences and 20 Co-Occurrences



For example: 576 papers contain the Keyword *Variability* (as Authors Keyword or Keyword Plus from WOS). 54 papers contain the Keyword *Satellite*. At least 20 papers contain both keywords *Variability* and *Satellite*.

3.3. Web Of Science Categories

WOS Category with at least 4 papers



For example: there are 1 010 papers published in journals assigned to the WOS subject category *Oceanography.*

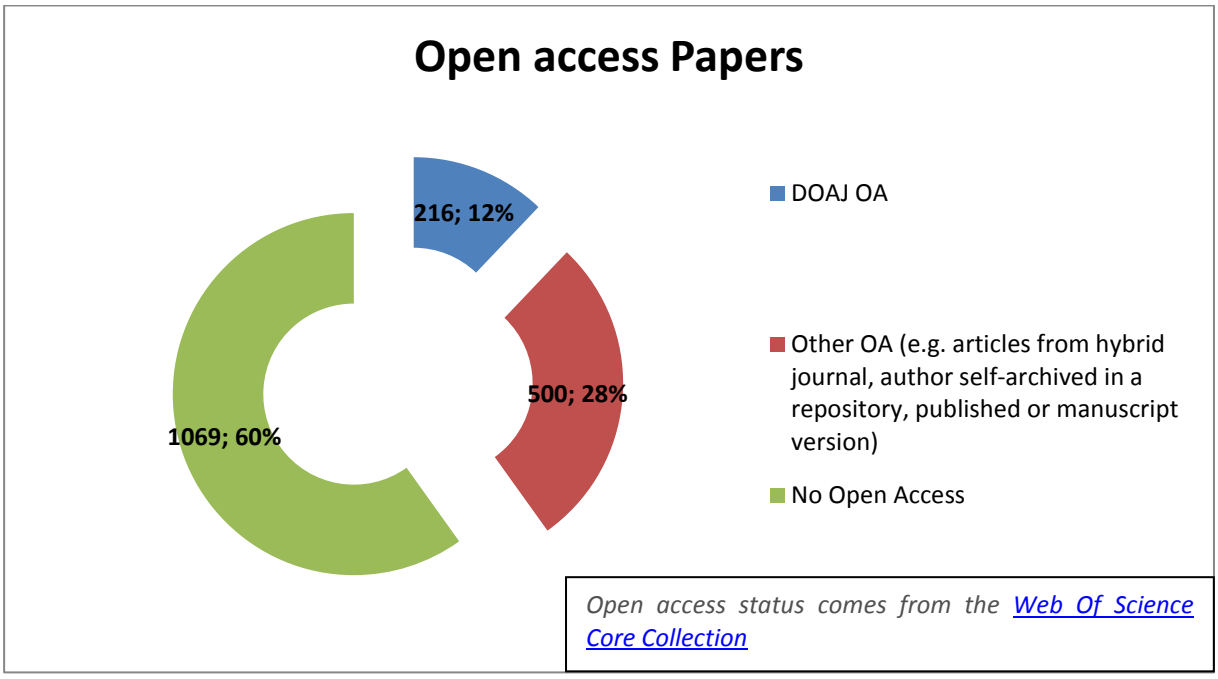
4. Journals

4.1. Top Journals

Journal (at least 10 papers)	Nb Publi.	% of 1785 publications	Main Quartile*	Journal Impact Factor
JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS	385	21,57	Q1	2,711
GEOPHYSICAL RESEARCH LETTERS	130	7,28	Q1	4,339
JOURNAL OF PHYSICAL OCEANOGRAPHY	108	6,05	Q1	3,086
JOURNAL OF CLIMATE	93	5,21	Q1	4,661
CLIMATE DYNAMICS	70	3,92	Q1	3,774
OCEAN SCIENCE	57	3,19	Q2	2,289
OCEAN DYNAMICS	52	2,91	Q3	1,575
DEEP-SEA RESEARCH PART I-OCEANOGRAPHIC RESEARCH PAPERS	47	2,63	Q1	2,384
OCEAN MODELLING	45	2,52	Q1	3,013
PROGRESS IN OCEANOGRAPHY	44	2,47	Q1	4,270
JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY	43	2,41	Q1	2,122
JOURNAL OF OCEANOGRAPHY	34	1,91	Q2	1,746
JOURNAL OF MARINE SYSTEMS	33	1,85	Q1	2,506
REMOTE SENSING OF ENVIRONMENT	32	1,79	Q1	6,457
ACTA OCEANOLOGICA SINICA	29	1,63	Q4	0,728
BIOGEOSCIENCES	29	1,63	Q1	3,441
SCIENTIFIC REPORTS	28	1,57	Q1	4,122
GLOBAL BIOGEOCHEMICAL CYCLES	23	1,29	Q1	4,457
JOURNAL OF OPERATIONAL OCEANOGRAPHY	23	1,29	Q2	2,067
DEEP-SEA RESEARCH PART II-TOPICAL STUDIES IN OCEANOGRAPHY	20	1,12	Q1	2,451
NATURE CLIMATE CHANGE	18	1,01	Q1	19,181
MONTHLY WEATHER REVIEW	18	1,01	Q1	3,247
CONTINENTAL SHELF RESEARCH	18	1,01	Q2	1,942
OCEANOGRAPHY	16	0,90	Q1	3,133
BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY	15	0,84	Q1	7,804
NATURE COMMUNICATIONS	14	0,78	Q1	12,353
ADVANCES IN ATMOSPHERIC SCIENCES	14	0,78	Q3	1,869
CHINESE JOURNAL OF OCEANOLOGY AND LIMNOLOGY	12	0,67	Q4	0,717
IZVESTIYA ATMOSPHERIC AND OCEANIC PHYSICS	12	0,67	Q4	0,457
QUARTERLY JOURNAL OF THE ROYAL METEOROLOGICAL SOCIETY	12	0,67	Q2	2,978
FRONTIERS IN MARINE SCIENCE	11	0,62	N/A	N/A
OCEANOLOGY	10	0,56	Q4	0,597
SCIENCE CHINA-EARTH SCIENCES	10	0,56	Q2	2,058
INTERNATIONAL JOURNAL OF REMOTE SENSING	10	0,56	Q2	1,782

*http://help.incites.clarivate.com/incitesLiveESI/9053-TRS.html

4.2. Open Access Papers



5. Citation

5.1. Papers more cited from 2014 until today (at least 40 times)

Total Publications: **1 785** (2018/11/16 : 1439)
Total Citations (2019/06/24): **18 809** (2018/11/16 : 13 537)
Average citations per item : **10.54** (2018/11/16 : 9.41)

Data comes from the Web Of Science Core Collection

Ranking based on Times cited :

1. Bond NA, Cronin MF, Freeland H, Mantua N.
Causes and impacts of the 2014 warm anomaly in the NE Pacific.
Geophys Res Lett. 2015;42(9):3414-20.
doi: 10.1002/2015gl063306.
WOS:000355878300044.
Times Cited: 260

2. MacLachlan C, Arribas A, Peterson KA, Maidens A, Fereday D, Scaife AA, Gordon M, Vellinga M, Williams A, Comer RE, Camp J, Xavier P, Madec G.
Global Seasonal forecast system version 5 (GloSea5): a high-resolution seasonal forecast system.
Q J R Meteorol Soc. 2015;141(689):1072-84.
doi: 10.1002/qj.2396.
WOS:000356805700007.
Times Cited: 207

3. Drobinski P, Ducrocq V, Alpert P, Anagnostou E, Beranger K, Borga M, Braud I, Chanzy A, Davolio S, Delrieu G, Estournel C, Boubrahmi NF, Font J, Grubisic V, Gualdi S, Homar V, Ivancan-Picek B, Kottmeier C, Kotroni V, Lagouvardos K, Lionello P, Llasat MC, Ludwig W, Lutoff C, Mariotti A, Richard E, Romero R, Rotunno R, Roussot O, Ruin I, Somot S, Taupier-Letage I, Tintore J, Uijlenhoet R, Wernli H.
HYMEX A 10-Year Multidisciplinary Program on the Mediterranean Water Cycle.
Bull Amer Meteorol Soc. 2014;95(7):1063-82.
doi: 10.1175/bams-d-12-00242.1.
WOS:000340981000014.
Times Cited: 176

4. Roemmich D, Church J, Gilson J, Monselesan D, Sutton P, Wijffels S.
Unabated planetary warming and its ocean structure since 2006.
Nat Clim Chang. 2015;5(3):240-5.
doi: 10.1038/nclimate2513.
WOS:000350327800019.
Times Cited: 155

5. Waterhouse AF, MacKinnon JA, Nash JD, Alford MH, Kunze E, Simmons HL, Polzin KL, St Laurent LC, Sun OM, Pinkel R, Talley LD, Whalen CB, Huussen TN, Carter GS, Fer I, Waterman S, Garabato ACN, Sanford TB, Lee CM.
Global Patterns of Diapycnal Mixing from Measurements of the Turbulent Dissipation Rate.
J Phys Oceanogr. 2014;44(7):1854-72.
doi: 10.1175/jpo-d-13-0104.1.
WOS:000339183800010.
Times Cited: 133

6. Cazenave A, Dieng HB, Meyssignac B, von Schuckmann K, Decharme B, Berthier E.
The rate of sea-level rise.
Nat Clim Chang. 2014;4(5):358-61.
doi: 10.1038/nclimate2159.
WOS:000335403500023.
Times Cited: 132

7. Schmidtko S, Heywood KJ, Thompson AF, Aoki S.
Multidecadal warming of Antarctic waters.
Science. 2014;346(6214):1227-31.
doi: 10.1126/science.1256117.
WOS:000346189000057.
Times Cited: 130

8. Riser SC, Freeland HJ, Roemmich D, Wijffels S, Troisi A, Belbeoch M, Gilbert D, Xu JP, Pouliquen S, Thresher A, Le Traon PY, Maze G, Klein B, Ravichandran M, Grant F, Poulain PM, Suga T, Lim B, Sterl A, Sutton P, Mork KA, Velez-Belch PJ, Ansorge I, King B, Turton J, Baringer M, Jayne SR.
Fifteen years of ocean observations with the global Argo array.
Nat Clim Chang. 2016;6(2):145-53.
doi: 10.1038/nclimate2872.
WOS:000370963400013.
Times Cited: 120

9. Trenberth KE, Fasullo JT, Balmaseda MA.
Earth's Energy Imbalance.
J Clim. 2014;27(9):3129-44.
doi: 10.1175/jcli-d-13-00294.1.
WOS:000337272700004.
Times Cited: 119

10. Buckley MW, Marshall J.
Observations, inferences, and mechanisms of the Atlantic Meridional Overturning Circulation: A review.
Rev Geophys. 2016;54(1):5-63.
doi: 10.1002/2015rg000493.
WOS:000374690300001.
Times Cited: 118

11. Zhang ZG, Wang W, Qiu B.
Oceanic mass transport by mesoscale eddies.
Science. 2014;345(6194):322-4.
doi: 10.1126/science.1252418.
WOS:000339400700050.
Times Cited: 117

12. McCarthy GD, Smeed DA, Johns WE, Frajka-Williams E, Moat BI, Rayner D, Baringer MO, Meinen CS, Collins J, Bryden HL.
Measuring the Atlantic Meridional Overturning Circulation at 26 degrees N.
Prog Oceanogr. 2015;130:91-111.
doi: 10.1016/j.pocean.2014.10.006.
WOS:000349059800007.
Times Cited: 114

13. Huang BY, Thorne PW, Banzon VF, Boyer T, Chepurin G, Lawrimore JH, Menne MJ, Smith TM, Vose RS, Zhang HM.
Extended Reconstructed Sea Surface Temperature, Version 5 (ERSSTv5): Upgrades, Validations, and Intercomparisons.
J Clim. 2017;30(20):8179-205.
doi: 10.1175/jcli-d-16-0836.1.
WOS:000411438000009.
Times Cited: 108

14. Forget G, Campin JM, Heimbach P, Hill CN, Ponte RM, Wunsch C.
ECCO version 4: an integrated framework for non-linear inverse modeling and global ocean state estimation.

Geosci Model Dev. 2015;8(10):3071-104.
doi: 10.5194/gmd-8-3071-2015.
WOS:000364326200006.
Times Cited: 100

15. Dong CM, McWilliams JC, Liu Y, Chen DK.
Global heat and salt transports by eddy movement.
Nat Commun. 2014;5:6.
doi: 10.1038/ncomms4294.
WOS:000332667600041.
Times Cited: 96

16. Pujol MI, Faugere Y, Taburet G, Dupuy S, Pelloquin C, Ablain M, Picot N.
DUACS DT2014: the new multi-mission altimeter data set reprocessed over 20 years.
Ocean Sci. 2016;12(5):1067-90.
doi: 10.5194/os-12-1067-2016.
WOS:000384145600001.
Times Cited: 88

17. von Schuckmann K, Palmer MD, Trenberth KE, Cazenave A, Chambers D, Champollion N, Hansen J, Josey SA, Loeb N, Mathieu PP, Meyssignac B, Wild M.
An imperative to monitor Earth's energy imbalance.
Nat Clim Chang. 2016;6(2):138-44.
doi: 10.1038/nclimate2876.
WOS:000370963400012.
Times Cited: 87

18. Tagliabue A, Sallee JB, Bowie AR, Levy M, Swart S, Boyd PW.
Surface-water iron supplies in the Southern Ocean sustained by deep winter mixing.
Nat Geosci. 2014;7(4):314-20.
doi: 10.1038/ngeo2101.
WOS:000333815700021.
Times Cited: 87

19. Medhaug I, Stolpe MB, Fischer EM, Knutti R.
Reconciling controversies about the 'global warming hiatus'.
Nature. 2017;545(7652):41-+.
doi: 10.1038/nature22315.
WOS:000400480400027.
Times Cited: 86

20. Balmaseda MA, Hernandez F, Storto A, Palmer MD, Alves O, Shi L, Smith GC, Toyoda T, Valdivieso M, Barnier B, Behringer D, Boyer T, Chang YS, Chepurin GA, Ferry N, Forget G, Fujii Y, Good S, Guinehut S, Haines K, Ishikawa Y, Keeley S, Kohl A, Lee T, Martin MJ, Masina S, Masuda S, Meyssignac B, Mogensen K, Parent L, Peterson KA, Tang YM, Yin Y, Vernieres G, Wang X, Waters J, Wedd R, Wang O, Xue Y, Chevallier M, Lemieux JF, Dupont F, Kuragano T, Kamachi M, Awaji T, Caltabiano A, Wilmer-Becker K, Gaillard F.
The Ocean Reanalyses Intercomparison Project (ORA-IP).
J Oper Oceanogr. 2015;8:S80-S97.
doi: 10.1080/1755876x.2015.1022329.
WOS:000368117600006.
Times Cited: 86

21. Allan RP, Liu CL, Loeb NG, Palmer MD, Roberts M, Smith D, Vidale PL.
Changes in global net radiative imbalance 1985-2012.
Geophys Res Lett. 2014;41(15):5588-97.
doi: 10.1002/2014gl060962.
WOS:000341725200035.
Times Cited: 84

22. Ablain M, Cazenave A, Larnicol G, Balmaseda M, Cipollini P, Faugere Y, Fernandes MJ, Henry O, Johannessen JA, Knudsen P, Andersen O, Legeais J, Meyssignac B, Picot N, Roca M, Rudenko S, Scharffenberg MG, Stammer D, Timms G, Benveniste J.
Improved sea level record over the satellite altimetry era (1993-2010) from the Climate Change Initiative project.
Ocean Sci. 2015;11(1):67-82.
doi: 10.5194/os-11-67-2015.
WOS:000350556600005.
Times Cited: 82

23. Nieves V, Willis JK, Patzert WC.
Recent hiatus caused by decadal shift in Indo-Pacific heating.
Science. 2015;349(6247):532-5.
doi: 10.1126/science.aaa4521.
WOS:000358713300055.
Times Cited: 78

24. Menkes CE, Lengaigne M, Vialard J, Puy M, Marchesiello P, Cravatte S, Cambon G.
About the role of Westerly Wind Events in the possible development of an El Nino in 2014.
Geophys Res Lett. 2014;41(18):6476-83.
doi: 10.1002/2014gl061186.
WOS:000344913700022.
Times Cited: 78

25. Rio MH, Mulet S, Picot N.
Beyond GOCE for the ocean circulation estimate: Synergetic use of altimetry, gravimetry, and in situ data provides new insight into geostrophic and Ekman currents.
Geophys Res Lett. 2014;41(24):8918-25.
doi: 10.1002/2014gl061773.
WOS:000348916500032.
Times Cited: 76

26. Kohl A.
Evaluation of the GECCO2 ocean synthesis: transports of volume, heat and freshwater in the Atlantic.
Q J R Meteorol Soc. 2015;141(686):166-81.
doi: 10.1002/qj.2347.
WOS:000349663200014.
Times Cited: 76

27. Llovel W, Willis JK, Landerer FW, Fukumori I.
Deep-ocean contribution to sea level and energy budget not detectable over the past decade.
Nat Clim Chang. 2014;4(11):1031-5.
doi: 10.1038/nclimate2387.
WOS:000344598400029.
Times Cited: 73

28. L'Heureux ML, Takahashi K, Watkins AB, Barnston AG, Becker EJ, Di Liberto TE, Gamble F, Gottschalck J, Halpert MS, Huang BY, Mosquera-Vasquez K, Wittenberg AT.
OBSERVING AND PREDICTING THE 2015/16 EL NINO.
Bull Amer Meteorol Soc. 2017;98(7):1363-82.
doi: 10.1175/bams-d-16-0009.1.
WOS:000406502800006.
Times Cited: 72

29. Cheng LJ, Trenberth KE, Fasullo J, Boyer T, Abraham J, Zhu J.
Improved estimates of ocean heat content from 1960 to 2015.
Sci Adv. 2017;3(3):10.

doi: 10.1126/sciadv.1601545.
WOS:000397044000014.
Times Cited: 70

30. Kennedy JJ.
A review of uncertainty in in situ measurements and data sets of sea surface temperature.
Rev Geophys. 2014;52(1):1-32.
doi: 10.1002/2013rg000434.
WOS:000335403000001.
Times Cited: 68

31. Reul N, Fournier S, Boutin J, Hernandez O, Maes C, Chapron B, Alory G, Quilfen Y, Tenerelli J, Morisset S, Kerr Y, Mecklenburg S, Delwart S.
Sea Surface Salinity Observations from Space with the SMOS Satellite: A New Means to Monitor the Marine Branch of the Water Cycle.
Surv Geophys. 2014;35(3):681-722.
doi: 10.1007/s10712-013-9244-0.
WOS:000333700700010.
Times Cited: 67

32. Pinardi N, Zavatarelli M, Adani M, Coppini G, Fratianni C, Oddo P, Simoncelli S, Tonani M, Lyubartsev V, Dobricic S, Bonaduce A.
Mediterranean Sea large-scale low-frequency ocean variability and water mass formation rates from 1987 to 2007: A retrospective analysis.
Prog Oceanogr. 2015;132:318-32.
doi: 10.1016/j.pocean.2013.11.003.
WOS:000352038700015.
Times Cited: 67

33. Srokosz MA, Bryden HL.
Observing the Atlantic Meridional Overturning Circulation yields a decade of inevitable surprises.
Science. 2015;348(6241):6.
doi: 10.1126/science.1255575.
WOS:000356449500041.
Times Cited: 66

34. Friedrich J, Janssen F, Aleynik D, Bange HW, Boltacheva N, Cagatay MN, Dale AW, Etiope G, Erdem Z, Geraga M, Gilli A, Gomoiu MT, Hall POJ, Hansson D, He Y, Holtappels M, Kirf MK, Kononets M, Konovalov S, Lichtschlag A, Livingstone DM, Marinaro G, Mazlumyan S, Naeher S, North RP, Papatheodorou G, Pfannkuche O, Prien R, Rehder G, Schubert CJ, Soltwedel T, Sommer S, Stahl H, Stanev EV, Teaca A, Tengberg A, Waldmann C, Wehrli B, Wenzhofer F.
Investigating hypoxia in aquatic environments: diverse approaches to addressing a complex phenomenon.
Biogeosciences. 2014;11(4):1215-59.
doi: 10.5194/bg-11-1215-2014.
WOS:000334100300021.
Times Cited: 61

35. Durack PJ, Gleckler PJ, Landerer FW, Taylor KE.
Quantifying underestimates of long-term upper-ocean warming.
Nat Clim Chang. 2014;4(11):999-1005.
doi: 10.1038/nclimate2389.
WOS:000344598400024.
Times Cited: 61

36. DeMott CA, Klingaman NP, Woolnough SJ.
Atmosphere-ocean coupled processes in the Madden-Julian oscillation.
Rev Geophys. 2015;53(4):1099-154.
doi: 10.1002/2014rg000478.

WOS:000369157300002.
Times Cited: 60

37. D'Asaro EA, Black PG, Centurioni LR, Chang YT, Chen SS, Foster RC, Graber HC, Harr P, Hormann V, Lien RC, Lin, II, Sanford TB, Tang TY, Wu CC.
IMPACT OF TYPHOONS ON THE OCEAN IN THE PACIFIC.
Bull Amer Meteorol Soc. 2014;95(9):1405-18.
doi: 10.1175/bams-d-12-00104.1.
WOS:000344441200014.
Times Cited: 60

38. Mercier H, Lherminier P, Sarafanov A, Gaillard F, Daniault N, Desbruyeres D, Falina A, Ferron B, Gourcuff C, Huck T, Thierry V.
Variability of the meridional overturning circulation at the Greenland-Portugal OVIDE section from 1993 to 2010.
Prog Oceanogr. 2015;132:250-61.
doi: 10.1016/j.pocean.2013.11.001.
WOS:000352038700010.
Times Cited: 58

39. Park YH, Durand I, Kestenare E, Rougier G, Zhou M, d'Ovidio F, Cotte C, Lee JH.
Polar Front around the Kerguelen Islands: An up-to-date determination and associated circulation of surface/subsurface waters.
J Geophys Res-Oceans. 2014;119(10):6575-92.
doi: 10.1002/2014jc010061.
WOS:000345499700003.
Times Cited: 56

40. Benetti M, Reverdin G, Pierre C, Merlivat L, Risi C, Steen-Larsen HC, Vimeux F.
Deuterium excess in marine water vapor: Dependency on relative humidity and surface wind speed during evaporation.
J Geophys Res-Atmos. 2014;119(2):584-93.
doi: 10.1002/2013jd020535.
WOS:000332995300007.
Times Cited: 55

41. Lehahn Y, Koren I, Schatz D, Frada M, Sheyn U, Boss E, Efrati S, Rudich Y, Trainic M, Sharoni S, Laber C, DiTullio GR, Coolen MJL, Martins AM, Van Mooy BAS, Bidle KD, Vardi A.
Decoupling Physical from Biological Processes to Assess the Impact of Viruses on a Mesoscale Algal Bloom.
Curr Biol. 2014;24(17):2041-6.
doi: 10.1016/j.cub.2014.07.046.
WOS:000341541300030.
Times Cited: 54

42. Danielson SL, Weingartner TJ, Hedstrom KS, Aagaard K, Woodgate R, Curchitser E, Stabeno PJ.
Coupled wind-forced controls of the Bering-Chukchi shelf circulation and the Bering Strait throughflow: Ekman transport, continental shelf waves, and variations of the Pacific-Arctic sea surface height gradient.
Prog Oceanogr. 2014;125:40-61.
doi: 10.1016/j.pocean.2014.04.006.
WOS:000338415200004.
Times Cited: 54

43. Griffies SM, Yin JJ, Durack PJ, Goddard P, Bates SC, Behrens E, Bentsen M, Bi DH, Biastoch A, Boning CW, Bozec A, Chassignet E, Danabasoglu G, Danilov S, Domingues CM, Drange H, Farneti R, Fernandez E, Greatbatch RJ, Holland DM, Ilicak M, Large WG, Lorbacher K, Lu JH, Marsland SJ, Mishra A, Nurser AJG, Melia DSY, Palter JB, Samuels BL, Schroter J, Schwarzkopf FU, Sidorenko D, Treguier AM, Tseng YH, Tsujino H, Uotila P, Valcke S, Voldoire A, Wang Q, Winton M, Zhang XB.

An assessment of global and regional sea level for years 1993-2007 in a suite of interannual CORE-II simulations.
Ocean Model. 2014;78:35-89.
doi: 10.1016/j.ocemod.2014.03.004.
WOS:000336516100003.
Times Cited: 53

44. Yashayaev I, Loder JW.
Recurrent replenishment of Labrador Sea Water and associated decadal-scale variability.
J Geophys Res-Oceans. 2016;121(11):8095-114.
doi: 10.1002/2016jc012046.
WOS:000392841000010.
Times Cited: 52

45. Rocha CB, Chereskin TK, Gille ST, Menemenlis D.
Mesoscale to Submesoscale Wavenumber Spectra in Drake Passage.
J Phys Oceanogr. 2016;46(2):601-20.
doi: 10.1175/jpo-d-15-0087.1.
WOS:000372707600004.
Times Cited: 52

46. Mignot A, Claustre H, Uitz J, Poteau A, D'Ortenzio F, Xing XG.
Understanding the seasonal dynamics of phytoplankton biomass and the deep chlorophyll maximum in oligotrophic environments: A Bio-Argo float investigation.
Glob Biogeochem Cycle. 2014;28(8):856-76.
doi: 10.1002/2013gb004781.
WOS:000342722000006.
Times Cited: 52

47. Lin, II, Pun IF, Lien CC.
"Category-6" supertyphoon Haiyan in global warming hiatus: Contribution from subsurface ocean warming.
Geophys Res Lett. 2014;41(23):8547-53.
doi: 10.1002/2014gl061281.
WOS:000348462000051.
Times Cited: 52

48. D'Asaro EA, Thomson J, Shcherbina AY, Harcourt RR, Cronin MF, Hemer MA, Fox-Kemper B.
Quantifying upper ocean turbulence driven by surface waves.
Geophys Res Lett. 2014;41(1):102-7.
doi: 10.1002/2013gl058193.
WOS:000332990200018.
Times Cited: 52

49. Chen XY, Zhang XB, Church JA, Watson CS, King MA, Monselesan D, Legresy B, Harig C.
The increasing rate of global mean sea-level rise during 1993-2014.
Nat Clim Chang. 2017;7(7):492-+.
doi: 10.1038/nclimate3325.
WOS:000404545400015.
Times Cited: 52

50. Danabasoglu G, Yeager SG, Kim WM, Behrens E, Bentsen M, Bi DH, Biastoch A, Bleck R, Boning C, Bozec A, Canuto VM, Cassou C, Chassignet E, Coward AC, Danilov S, Diansky N, Drange H, Farneti R, Fernandez E, Fogli PG, Forget G, Fujii Y, Griffies SM, Gusev A, Heimbach P, Howard A, Ilicak M, Jung T, Karspeck AR, Kelley M, Large WG, Leboissetier A, Lu JH, Madec G, Marsland SJ, Masina S, Navarra A, Nurser AJG, Pirani A, Romanou A, Melia DSY, Samuels BL, Scheinert M, Sidorenko D, Sun S, Treguier AM, Tsujino H, Uotila P, Valcke S, Voldoire A, Wang Q, Yashayaev I.

North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part II: Inter-annual to decadal variability.
Ocean Model. 2016;97:65-90.
doi: 10.1016/j.ocemod.2015.11.007.
WOS:000367556200006.
Times Cited: 51

51. Gray AR, Riser SC.
A Global Analysis of Sverdrup Balance Using Absolute Geostrophic Velocities from Argo.
J Phys Oceanogr. 2014;44(4):1213-29.
doi: 10.1175/jpo-d-12-0206.1.
WOS:000334128200009.
Times Cited: 50

52. Skliris N, Marsh R, Josey SA, Good SA, Liu CL, Allan RP.
Salinity changes in the World Ocean since 1950 in relation to changing surface freshwater fluxes.
Clim Dyn. 2014;43(3-4):709-36.
doi: 10.1007/s00382-014-2131-7.
WOS:000339899500009.
Times Cited: 49

53. Msadek R, Delworth TL, Rosati A, Anderson W, Vecchi G, Chang YS, Dixon K, Gudgel RG, Stern W, Wittenberg A, Yang X, Zeng F, Zhang R, Zhang S.
Predicting a Decadal Shift in North Atlantic Climate Variability Using the GFDL Forecast System.
J Clim. 2014;27(17):6472-96.
doi: 10.1175/jcli-d-13-00476.1.
WOS:000341281800007.
Times Cited: 49

54. Lyman JM, Johnson GC.
Estimating Global Ocean Heat Content Changes in the Upper 1800 m since 1950 and the Influence of Climatology Choice.
J Clim. 2014;27(5):1945-57.
doi: 10.1175/jcli-d-12-00752.1.
WOS:000331689900006.
Times Cited: 49

55. Luo YW, Lima ID, Karl DM, Deutsch CA, Doney SC.
Data-based assessment of environmental controls on global marine nitrogen fixation.
Biogeosciences. 2014;11(3):691-708.
doi: 10.5194/bg-11-691-2014.
WOS:000334099700011.
Times Cited: 48

56. Kieke D, Yashayaev I.
Studies of Labrador Sea Water formation and variability in the subpolar North Atlantic in the light of international partnership and collaboration.
Prog Oceanogr. 2015;132:220-32.
doi: 10.1016/j.pocean.2014.12.010.
WOS:000352038700008.
Times Cited: 48

57. Smith DM, Allan RP, Coward AC, Eade R, Hyder P, Liu CL, Loeb NG, Palmer MD, Roberts CD, Scaife AA.
Earth's energy imbalance since 1960 in observations and CMIP5 models.
Geophys Res Lett. 2015;42(4):1205-13.
doi: 10.1002/2014gl062669.
WOS:000351851900031.
Times Cited: 47

58. Ganachaud A, Cravatte S, Melet A, Schiller A, Holbrook NJ, Sloyan BM, Widlansky MJ, Bowen M, Verron J, Wiles P, Ridgway K, Sutton P, Sprintall J, Steinberg C, Brassington G, Cai W, Davis R, Gasparin F, Gourdeau L, Hasegawa T, Kessler W, Maes C, Takahashi K, Richards KJ, Send U.
The Southwest Pacific Ocean circulation and climate experiment (SPICE).
J Geophys Res-Oceans. 2014;119(11):7660-86.
doi: 10.1002/2013jc009678.
WOS:000346102900017.
Times Cited: 47

59. Arndt DS, Blunden J, Willett KW, Aaron-Morrison AP, Ackerman SA, Adamu JI, Albanil A, Alfaro EJ, Allan R, Alley RB, Alvarez L, Alves LM, Amador JA, Andreassen LM, Antonov J, Applequist S, Arendt A, Arevalo J, Arguez A, Arndt DS, Banzon V, Barichivich J, Baringer MO, Barreira S, Baxter S, Bazo J, Becker A, Behrenfeld MJ, Bell GD, Benedetti A, Bernhard G, Berrisford P, Berry DI, Bettolli ML, Bhatt US, Bidegain M, Bindoff N, Bissolli P, Blake ES, Blenman RC, Blunden J, Bond NA, Bosilovich M, Box JE, Boudet D, Boyer T, Braathen GO, Bromwich DH, Brown LC, Brown R, Bulygina ON, Burgess D, Calderon B, Camargo SJ, Campbell JD, Cappelen J, Carrasco G, Carter B, Chambers DP, Chandler E, Chevallier F, Christiansen HH, Christy JR, Chung D, Ciais P, Clem KR, Coelho CAS, Cogley JG, Coldewey-Egbers M, Colwell S, Cooper OR, Copland L, Cronin MF, Crouch J, Cunningham SA, Davis SM, De Jeu RAM, Degenstein D, Demircan M, Derksen C, Destin D, Diamond HJ, Dlugokencky J, Dohan K, Dolman AJ, Domingues CM, Donat MG, Dong S, Dorigo WA, Drozdov DS, Duguay CR, Dunn RJH, Duran-Quesada AM, Dutton GS, Ebrahim A, Elkins JW, Epstein HE, Espinoza JC, Evans TE, Famiglietti JS, Fateh S, Fauchereau NC, Feely RA, Fenimore C, Fettweis X, Fioletov VE, Flemming J, Fogarty CT, Fogt RL, Folland CK, Foster M, Francis SD, Franz BA, Freeland H, Frith SM, Froidevaux L, Frost GV, Ganter C, Garzoli S, Gerland S, Gitau W, Gobron N, Goldenberg SB, Goni G, Gonzalez IT, Good SA, Goto A, Griffin KS, Grist J, Grooss JU, Guard C, Gupta SK, Hagos S, Haimberger L, Hall BD, Halpert MS, Hamlington BD, Hanna E, Hanssen-Bauer I, Harris I, Heidinger AK, Heikkila A, Heim RR, Hendricks S, Hernandez M, Hidalgo HG, Hilburn K, Ho SP, Hobbs WR, Hu ZZ, Huelsing H, Hurst DF, Inness A, Ishii M, Jeffers B, Jeffries MO, Jevrejeva S, Jin XZ, John V, Johns WE, Johnsen B, Johnson B, Johnson GC, Jones PD, Josey SA, Joyette S, Jumaux G, Kabidi K, Kaiser JW, Kang KK, Kanzow TO, Kao HY, Kazemi A, Keller LM, Kendon M, Kennedy J, Kerr K, Kheyrollah Pour H, Kholodov AL, Khoshkam M, Kidd R, Kieke D, Kim H, Kim SJ, Kimberlain TB, Klotzbach P, Knaff JA, Kobayashi S, Kohler J, Korshunova NN, Koskela T, Kramarova N, Kratz DP, Kruger A, Kruk MC, Kumar A, Kwok R, Lagerloef GSE, Lakkala K, Lander MA, Landsea CW, Lankhorst M, Lantz K, Lazzara MA, Leuliette E, L'Heureux M, Lieser JL, Lin, II, Liu H, Liu Y, Locarnini R, Loeb NG, Long CS, Lorrey AM, Loyola D, Lui YY, Lumpkin R, Luo JJ, Luojus K, Lyman JM, Macara GR, Maddux BC, Malkova GV, Manney G, Marcellin-Honore V, Marchenko SS, Marengo JA, Marra JJ, Martinez-Guingla R, Massom RA, Mata MM, Mathis JT, Mazloff M, McBride C, McCarthy G, McGree S, McLean N, McVicar TR, Mears CA, Meier W, Meinen CS, Mekonnen A, Melzer T, Menendez M, Mengistu Tsidu G, Meredith MP, Merrifield MA, Mitchum GT, Monteiro P, Montzka SA, Morice C, Mote T, Mudryk L, Muhle J, Mullan AB, Muller R, Nash ER, Naveira Garabato AC, Nerem RS, Newman L, Newman PA, Nicolaus M, Nieto JJ, Noetzli J, O'Neel S, Oberman NG, Ogallo LA, Oki T, Oludhe CS, Osborn TJ, Overland J, Oyunjargal L, Pabon D, Parinussa RM, Park EH, Parker D, Parsons R, Pasch RJ, Pascual-Ramirez R, Pelto MS, Peng L, Perovich D, Persson POG, Peterson TC, Petropavlovskikh I, Peuch VH, Pezza AB, Phillips D, Photiadou C, Pinty B, Pitts MC, Porter AO, Proshutinsky A, Quegan S, Quintana J, Rahimzadeh F, Rajeevan M, Ramos A, Raynor D, Razuvaev VN, Reagan J, Reid P, Reimer C, Remy S, Rennie J, Renwick JA, Revadekar JV, Richter-Menge JA, Robinson DA, Rodell M, Romanovsky VE, Ronchail J, Rosenlof KH, Roth C, Sabine CL, Sallee JB, Sanchez-Lugo A, Santee ML, Sawaengphokhai P, Sayouri A, Scambos TA, Schemm J, Schmid C, Schmidtko S, Schreck CJ, Send U, Sensoy S, Setzer A, Sharp M, Shaw A, Shi L, Shiklomanov NI, Shu S, Shupe MD, Siegel DA, Sima F, Simmons AJ, Smeed DA, Smeets C, Smith C, Smith SL, Smith TM, Spence JM, Srivastava AK, Stackhouse Jr PW, Stammerjohn S, Steinbrecht W, Stella JL, Stephenson K, Stephenson TS, Strahan S, Streletskiy DA, Swart S, Sweet W, Tamar G, Taylor MA, Tedesco M, Thompson L, Thompson P, Thorne PW, Timmermans ML, Tjernstrom M, Tobin I, Tobin S, Trachte K, Trewin BC, Trigo R, Trotman AR, Tschudi M, van de Wal RSW, van den Broeke M, van der A RJ, van der Schrier G, van der Werf GR, van Dijk A, Vautard R, Vazquez JL, Vega C, Verver G, Vieira G, Vincent LA, Vose RS, Wagner W, Wahlin A, Wahr J, Walker DA, Walsh J, Wang B, Wang C, Wang J, Wang L, Wang M, Wang SH, Wang S, Wanninkhof R, Weber M, Werdell PJ, Whitewood R, Wilber AC, Wild JD, Willett KM, Williams MJM, Willis JK, Wolken G, Wong T, Wouters B, Xue Y, Yamada R, Yashayaev I, Yim SY, Yin X, Yu L, Zambrano E, Zhang P, Zhou L, Ziemke J, Love-Brotak SE, Sprain M, Veasey SW, Griffin J, Misch DJ, Riddle DB, Young T.
STATE OF THE CLIMATE IN 2014.
Bull Amer Meteorol Soc. 2015;96(7):S1-S267.
doi: 10.1175/2015BAMSStateoftheClimate.1.
WOS:000359855100001.

Times Cited: 47

60. Msadek R, Vecchi GA, Winton M, Gudgel RG.
Importance of initial conditions in seasonal predictions of Arctic sea ice extent.
Geophys Res Lett. 2014;41(14):5208-15.
doi: 10.1002/2014gl060799.
WOS:000342846100008.
Times Cited: 46

61. Lozier MS, Bacon S, Bower AS, Cunningham SA, de Jong MF, de Steur L, deYoung B, Fischer J, Gary SF, Greenan BJW, Heimbach P, Holliday NP, Houpert L, Inall ME, Johns WE, Johnson HL, Karstensen J, Li FL, Lin XP, Mackay N, Marshall DP, Mercier H, Myers PG, Pickart RS, Pillar HR, Straneo F, Thierry V, Weller RA, Williams RG, Wilson C, Yang JY, Zhao J, Zika JD.
OVERTURNING IN THE SUBPOLAR NORTH ATLANTIC PROGRAM A New International Ocean Observing System.
Bull Amer Meteorol Soc. 2017;98(4):737-52.
doi: 10.1175/bams-d-16-0057.1.
WOS:000400293700009.
Times Cited: 46

62. Loeb NG, Doelling DR, Wang HL, Su WY, Nguyen C, Corbett JG, Liang LS, Mitrescu C, Rose FG, Kato S.
Clouds and the Earth's Radiant Energy System (CERES) Energy Balanced and Filled (EBAF) Top-of-Atmosphere (TOA) Edition-4.0 Data Product.
J Clim. 2018;31(2):895-918.
doi: 10.1175/jcli-d-17-0208.1.
WOS:000425164800024.
Times Cited: 45

63. Liu W, Xie SP, Lu J.
Tracking ocean heat uptake during the surface warming hiatus.
Nat Commun. 2016;7:9.
doi: 10.1038/ncomms10926.
WOS:000373153800001.
Times Cited: 45

64. Blunden J, Arndt DS, Aaron-Morrison AP, Ackerman SA, Albanil A, Alfaro EJ, Allan R, Alves LM, Amador JA, Ambenje P, Anderson L, Andreassen LM, Antonov J, Arendt A, Arevalo J, Arndt DS, Ashik I, Atheru Z, Augustine J, Baklanov A, Banzon V, Baringer MO, Barreira S, Barriopedro D, Baxter S, Bazo J, Becker A, Behrenfeld MJ, Bell GD, Benedetti A, Bernhard G, Berrisford P, Berry DI, Bhatt US, Bidegain M, Bindoff N, Bissolli P, Blake ES, Blenman RC, Blunden J, Bosilovich M, Box JE, Boyer T, Braathen GO, Bromwich DH, Brown G, Brown LC, Brown R, Bruhwiler L, Bulygina ON, Burgess D, Butler M, Calderon B, Camargo SJ, Campbell GG, Campbell JD, Cappelen J, Carrasco G, Chambers DP, Chang'a L, Chappell PR, Christiansen HH, Christy JR, Chung D, Ciais P, Clem KR, Coelho CAS, Coldewey-Egbers M, Colwell S, Cooper OR, Coulibaly KA, Cox C, Cross JN, Crouch J, Cunningham SA, Dahlback A, Davis SM, de Jeu RAM, Dekaa FS, Derksen C, Diamond HJ, Dlugokencky EJ, Dohan K, Dolman AJ, Domingues CM, Donat M, Dong SF, Dorigo WA, Drozdov DS, Duguay C, Dunn RJH, Duran-Quesada AM, Dutton GS, Ebrahim A, Elkins JW, Espinoza JC, Euscategui C, Evans W, Evans TE, Famigliette JS, Fauchereau NC, Feely RA, Fenimore C, Fettweis X, Fioletov VE, Flanner MG, Flemming J, Fogarty CT, Fogt RL, Folland CK, Foster MJ, Frajka-Williams E, Francis J, Franz BA, Frith SM, Frolov I, Ganter C, Garzoli S, Geai ML, Gerland S, Gitau W, Gleason KL, Gobron N, Goldenberg SB, Goni G, Gonzalez IT, Good SA, Gottschalck J, Gregg MC, Grooss JU, Guard CPC, Gugliemin M, Gupta SK, Ha HK, Hahn S, Hall BD, Halpert MS, Hamlington B, Hanna E, Hanssen-Bauer I, Harada Y, Haran T, Heidinger AK, Heikkila A, Heim RR, Hendricks S, Herber A, Hidalgo HG, Hilburn K, Ho SO, Hobbs WR, Hovhannisyan D, Hu ZZ, Hurst DF, Ingvaldsen R, Inness A, James IA, Jeffries MO, Jensen TS, Jin X, Hole MA, Johns WE, Johnsen B, Johnson B, Johnson GC, Jones LT, Jumaux G, Kabidi K, Kaiser JW, Kang KK, Kanzow TO, Kao HY, Keller LM, Kendon M, Kennedy JJ, Key J, Khatiwala S, Kheyrollah PH, Kholodov AL, Khoshkam M, Kijazi A, Kikuchi T, Kim BM, Kim H, Kim SJ, Kim TW, Kimberlain TB, Klotzbach P, Knaff JA, Kohler J, Korshunova NN, Koskela T, Kramarova N, Kratz DP, Krishfield R, Kruger A, Kruk MC, Kumar A, Kupiainen K, Lagerloef GSE, Lakkala K, Lander MA, Landsea CW, Lankhorst M, Lantz KO, Laurila T, Law KS, Lazzara MA, Leuliette E, Levira P, Salaam T, L'Heureux M, Lieser J, Lin, II, Liu HX, Liu YY, Liu YH, Lobato-Sanchez R, Locarnini R, Loeb NG, Loeng H, Long CS, Lorrey AM,

Loyola D, Luhunga P, Lumpkin R, Luo JJ, Luojus K, Lyman JM, Macara GR, Maddux BC, Malkova GV, Manney G, Marcellin-Honore V, Marchenko SS, Marengo JA, Marotzke J, Marra JJ, Martinez-Guingla R, Massom RA, Mathis JT, McBride C, McCarthy G, McGree S, McInnes K, McLean N, McVicar T, Mears CA, Meier W, Meinen CS, Menendez M, Merrifield MA, Mitchum GT, Montzka SA, Morcrette JJ, Mote T, Muhle J, Mullan AB, Muller R, Nash ER, Nerem RS, Newlin ML, Newman PA, Ng'ongolo H, Nicolaus M, Nieto JJ, Nishino S, Nitsche H, Noetzli J, Oberman NG, Obregon A, Ogallo LA, Ohno H, Oki T, Oludhe CS, Overland J, Oyunjargal L, Parinussa RM, Park EH, Parker D, Pasch RJ, Pascual-Ramirez R, Paulik C, Pelto MS, Penalba OC, Peng L, Perovich D, Pezza AB, Phillips D, Pickart R, Pinty B, Pitts MC, Polyakov I, Pope A, Porter AO, Quegan S, Quinn PK, Rabe B, Rahimzadeh F, Rajeevan M, Rakotomavo Z, Rayner D, Rayner NA, Razuvaev VN, Ready S, Reagan J, Reid P, Reimer C, Remy S, Rennermalm AK, Rennie J, Renwick JA, Revadekar JV, Richter-Menge J, Rivera IL, Robinson DA, Rodell M, Romanovsky VE, Ronchail J, Rosenlof KH, Sabine CL, Sanchez-Lugo A, Santee ML, Santoro M, Sawaengphokhai P, Sayouri A, Scambos TA, Schauer U, Schemm J, Schlosser P, Schmale J, Schmid C, Schreck CJ, Send U, Sensoy S, Setzer A, Sharma S, Sharp M, Shiklomanov NI, Shu S, Siegel DA, Sima F, Simmons A, Smeed DA, Smethie WM, Smith C, Smith LC, Smith SL, Smith TM, Sokolov V, Spence JM, Srivastava AK, Stackhouse PW, Stammerjohn S, Steele M, Steinbrecht W, Stella JL, Stengel M, Stephenson TS, Stohl A, Stone R, Streletskiy DA, Svendby T, Sweet W, Takahashi T, Tanaka S, Tang Q, Taylor MA, Tedesco M, Thiaw WM, Thompson P, Thorne PW, Timmermans ML, Tobin I, Tobin S, Toole J, Trachte K, Trewin BC, Trigo R, Trotman AR, Tschudi M, van de Wal RSW, van der A RJ, van der Werf GR, Vautard R, Vavrus S, Vazquez JL, Vega C, Vestreng V, Vincent LA, Volkov D, von Salzen K, Vose RS, Wagner WW, Wahr J, Walden V, Walsh J, Wang B, Wang CZ, Wang GJ, Wang JH, Wang L, Wang M, Wang SH, Wang SJ, Wanninkhof R, Weaver SJ, Weber M, Werdell PJ, Whitewood R, Wilber AC, Wild JD, Willett KM, Williams W, Willis JK, Wolken G, Wong T, Woodgate R, Worthy D, Wouters B, Xue Y, Yamada R, Yamamoto-Kawai M, Yin XG, Yoshimatsu K, Yu L, Zambrano E, Zhang PQ, Zhao L, Ziemke J, Zimmermann S.
STATE OF THE CLIMATE IN 2013.
Bull Amer Meteorol Soc. 2014;95(7):S1-S257.
doi: 10.1175/2014BAMSStateoftheClimate.1.
WOS:000340980900001.
Times Cited: 45

65. Abernathey RP, Cerovecki I, Holland PR, Newsom E, Mazlo M, Talley LD.
Water-mass transformation by sea ice in the upper branch of the Southern Ocean overturning.
Nat Geosci. 2016;9(8):596-+.
doi: 10.1038/ngeo2749.
WOS:000382137900015.
Times Cited: 45

66. Pegliasco C, Chaigneau A, Morrow R.
Main eddy vertical structures observed in the four major Eastern Boundary Upwelling Systems.
J Geophys Res-Oceans. 2015;120(9):6008-33.
doi: 10.1002/2015jc010950.
WOS:000363470300008.
Times Cited: 43

67. Karstensen J, Fiedler B, Schutte F, Brandt P, Kortzinger A, Fischer G, Zantopp R, Hahn J, Visbeck M, Wallace D.
Open ocean dead zones in the tropical North Atlantic Ocean.
Biogeosciences. 2015;12(8):2597-605.
doi: 10.5194/bg-12-2597-2015.
WOS:000353840500021.
Times Cited: 43

68. Chiswell SM, Bostock HC, Sutton PJH, Williams MJM.
Physical oceanography of the deep seas around New Zealand: a review.
N Z J Mar Freshw Res. 2015;49(2):286-317.
doi: 10.1080/00288330.2014.992918.
WOS:000356795800010.
Times Cited: 43

69. Carranza MM, Gille ST.

Southern Ocean wind-driven entrainment enhances satellite chlorophyll-a through the summer.
J Geophys Res-Oceans. 2015;120(1):304-23.
doi: 10.1002/2014jc010203.
WOS:000349890000019.
Times Cited: 43

70. Akhil VP, Durand F, Lengaigne M, Vialard J, Keerthi MG, Gopalakrishna VV, Deltel C, Papa F, Montegut CD.
A modeling study of the processes of surface salinity seasonal cycle in the Bay of Bengal.
J Geophys Res-Oceans. 2014;119(6):3926-47.
doi: 10.1002/2013jc009632.
WOS:000340414800039.
Times Cited: 43

71. Zhu JS, Huang BH, Zhang RH, Hu ZZ, Kumar A, Balmaseda MA, Marx L, Kinter JL.
Salinity anomaly as a trigger for ENSO events.
Sci Rep. 2014;4:5.
doi: 10.1038/srep06821.
WOS:000343983600012.
Times Cited: 42

72. Villar E, Farrant GK, Follows M, Garczarek L, Speich S, Audic S, Bittner L, Blanke B, Brum JR, Brunet C, Casotti R, Chase A, Dolan JR, d'Ortenzio F, Gattuso JP, Grima N, Guidi L, Hill CN, Jahn O, Jamet JL, Le Goff H, Lepoivre C, Malviya S, Pelletier E, Romagnan JB, Roux S, Santini S, Scalco E, Schwenck SM, Tanaka A, Testor P, Vannier T, Vincent F, Zingone A, Dimier C, Picheral M, Searson S, Kandels-Lewis S, Acinas SG, Bork P, Boss E, de Vargas C, Gorsky G, Ogata H, Pesant S, Sullivan MB, Sunagawa S, Wincker P, Karsenti E, Bowler C, Not F, Hingamp P, Iudicone D, Tara Oceans C.
Environmental characteristics of Agulhas rings affect interocean plankton transport.
Science. 2015;348(6237):11.
doi: 10.1126/science.1261447.
WOS:000354877900032.
Times Cited: 42

73. Gleckler PJ, Durack PJ, Stouffer RJ, Johnson GC, Forest CE.
Industrial-era global ocean heat uptake doubles in recent decades.
Nat Clim Chang. 2016;6(4):394-+.
doi: 10.1038/nclimate2915.
WOS:000373060000017.
Times Cited: 42

74. Lubbecke JF, McPhaden MJ.
Assessing the Twenty-First-Century Shift in ENSO Variability in Terms of the Bjerknes Stability Index*.
J Clim. 2014;27(7):2577-87.
doi: 10.1175/jcli-d-13-00438.1.
WOS:000333382100007.
Times Cited: 41

75. Johnson KS, Plant JN, Coletti LJ, Jannasch HW, Sakamoto CM, Riser SC, Swift DD, Williams NL, Boss E, Haentjens N, Talley LD, Sarmiento JL.
Biogeochemical sensor performance in the SOCCOM profiling float array.
J Geophys Res-Oceans. 2017;122(8):6416-36.
doi: 10.1002/2017jc012838.
WOS:000410790600021.
Times Cited: 41

76. Houpert L, de Madron XD, Testor P, Bosse A, D'Ortenzio F, Bouin MN, Dausse D, Le Goff H, Kunesch S, Labaste M, Coppola L, Mortier L, Raimbault P.
Observations of open-ocean deep convection in the northwestern Mediterranean Sea: Seasonal and interannual variability of mixing and deep water masses for the 2007-2013 Period.

J Geophys Res-Oceans. 2016;121(11):8139-71.
doi: 10.1002/2016jc011857.
WOS:000392841000012.
Times Cited: 41

77. Yan XH, Boyer T, Trenberth K, Karl TR, Xie SP, Nieves V, Tung KK, Roemmich D.
The global warming hiatus: Slowdown or redistribution?
Earth Future. 2016;4(11):472-82.
doi: 10.1002/2016ef000417.
WOS:000392812800001.
Times Cited: 40

5.2. 40 “Highly Cited papers”, One “Hot Paper”

Data from Essential Science Indicators and from the Web Of Science Core Collection

Highly Cited in Field : As of January/February 2019, 40 “highly cited papers” received enough citations to place them in the top 1% of an academic field (i.e. Geosciences; Environment/Ecology) based on a highly cited threshold for the field and publication year.

Hot Paper : One “Hot paper” (paper in grey) was published in the past two years and received enough citations in January/February 2019 to place it in the top 0.1% of papers in the academic field of Geosciences.

List with a first author’s alphabetic order:

1. Ablain M, Cazenave A, Larnicol G, Balmaseda M, Cipollini P, Faugere Y, Fernandes MJ, Henry O, Johannessen JA, Knudsen P, Andersen O, Legeais J, Meyssignac B, Picot N, Roca M, Rudenko S, Scharffenberg MG, Stammer D, Timms G, Benveniste J.
Improved sea level record over the satellite altimetry era (1993-2010) from the Climate Change Initiative project.
Ocean Sci. 2015;11(1):67-82.
doi: 10.5194/os-11-67-2015.
WOS:000350556600005.
Times Cited: 82

2. Ablain M, Legeais JF, Prandi P, Marcos M, Fenoglio-Marc L, Dieng HB, Benveniste J, Cazenave A.
Satellite Altimetry-Based Sea Level at Global and Regional Scales.
Surv Geophys. 2017;38(1):7-31.
doi: 10.1007/s10712-016-9389-8.
WOS:000395073100002.
Times Cited: 27

3. Balmaseda MA, Hernandez F, Storto A, Palmer MD, Alves O, Shi L, Smith GC, Toyoda T, Valdivieso M, Barnier B, Behringer D, Boyer T, Chang YS, Chepurin GA, Ferry N, Forget G, Fujii Y, Good S, Guinehut S, Haines K, Ishikawa Y, Keeley S, Kohl A, Lee T, Martin MJ, Masina S, Masuda S, Meyssignac B, Mogensen K, Parent L, Peterson KA, Tang YM, Yin Y, Vernieres G, Wang X, Waters J, Wedd R, Wang O, Xue Y, Chevallier M, Lemieux JF, Dupont F, Kuragano T, Kamachi M, Awaji T, Caltabiano A, Wilmer-Becker K, Gaillard F.
The Ocean Reanalyses Intercomparison Project (ORA-IP).
J Oper Oceanogr. 2015;8:S80-S97.
doi: 10.1080/1755876x.2015.1022329.
WOS:000368117600006.
Times Cited: 86

4. Bond NA, Cronin MF, Freeland H, Mantua N.
Causes and impacts of the 2014 warm anomaly in the NE Pacific.
Geophys Res Lett. 2015;42(9):3414-20.
doi: 10.1002/2015gl063306.
WOS:000355878300044.
Times Cited: 260

5. Buckley MW, Marshall J.
Observations, inferences, and mechanisms of the Atlantic Meridional Overturning Circulation: A review.
Rev Geophys. 2016;54(1):5-63.
doi: 10.1002/2015rg000493.
WOS:000374690300001.
Times Cited: 118

6. Cazenave A, Dieng HB, Meyssignac B, von Schuckmann K, Decharme B, Berthier E.
The rate of sea-level rise.
Nat Clim Chang. 2014;4(5):358-61.
doi: 10.1038/nclimate2159.

WOS:000335403500023.
Times Cited: 132

7. Chambers DP, Cazenave A, Champollion N, Dieng H, Llovel W, Forsberg R, von Schuckmann K, Wada Y.
Evaluation of the Global Mean Sea Level Budget between 1993 and 2014.
Surv Geophys. 2017;38(1):309-27.
doi: 10.1007/s10712-016-9381-3.
WOS:000395073100014.
Times Cited: 31

8. Chen XY, Zhang XB, Church JA, Watson CS, King MA, Monselesan D, Legresy B, Harig C.
The increasing rate of global mean sea-level rise during 1993-2014.
Nat Clim Chang. 2017;7(7):492-+.
doi: 10.1038/nclimate3325.
WOS:000404545400015.
Times Cited: 52

9. Cheng LJ, Trenberth KE, Fasullo J, Boyer T, Abraham J, Zhu J.
Improved estimates of ocean heat content from 1960 to 2015.
Sci Adv. 2017;3(3):10.
doi: 10.1126/sciadv.1601545.
WOS:000397044000014.
Times Cited: 70

10. Danabasoglu G, Yeager SG, Kim WM, Behrens E, Bentsen M, Bi DH, Biastoch A, Bleck R, Boning C, Bozec A, Canuto VM, Cassou C, Chassignet E, Coward AC, Danilov S, Diansky N, Drange H, Farneti R, Fernandez E, Fogli PG, Forget G, Fujii Y, Griffies SM, Gusev A, Heimbach P, Howard A, Ilicak M, Jung T, Karspeck AR, Kelley M, Large WG, Leboissetier A, Lu JH, Madec G, Marsland SJ, Masina S, Navarra A, Nurser AJG, Pirani A, Romanou A, Melia DSY, Samuels BL, Scheinert M, Sidorenko D, Sun S, Treguier AM, Tsujino H, Uotila P, Valcke S, Voldoire A, Wang Q, Yashayaev I.
North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part II: Inter-annual to decadal variability.
Ocean Model. 2016;97:65-90.
doi: 10.1016/j.ocemod.2015.11.007.
WOS:000367556200006.
Times Cited: 51

11. Dieng HB, Cazenave A, Meyssignac B, Ablain M.
New estimate of the current rate of sea level rise from a sea level budget approach.
Geophys Res Lett. 2017;44(8):3744-51.
doi: 10.1002/2017gl073308.
WOS:000401847500036.
Times Cited: 37

12. Drobinski P, Ducrocq V, Alpert P, Anagnostou E, Beranger K, Borga M, Braud I, Chanzy A, Davolio S, Delrieu G, Estournel C, Boubrahmi NF, Font J, Grubisic V, Gualdi S, Homar V, Ivancan-Picek B, Kottmeier C, Kotroni V, Lagouvardos K, Lionello P, Llasat MC, Ludwig W, Lutoff C, Mariotti A, Richard E, Romero R, Rotunno R, Roussot O, Ruin I, Somot S, Taupier-Letage I, Tintore J, Uijlenhoet R, Wernli H.
HYMEX A 10-Year Multidisciplinary Program on the Mediterranean Water Cycle.
Bull Amer Meteorol Soc. 2014;95(7):1063-82.
doi: 10.1175/bams-d-12-00242.1.
WOS:000340981000014.
Times Cited: 176

13. Forget G, Campin JM, Heimbach P, Hill CN, Ponte RM, Wunsch C.
ECCO version 4: an integrated framework for non-linear inverse modeling and global ocean state estimation.
Geosci Model Dev. 2015;8(10):3071-104.

doi: 10.5194/gmd-8-3071-2015.
WOS:000364326200006.
Times Cited: 100

14. Hausfather Z, Cowtan K, Clarke DC, Jacobs P, Richardson M, Rohde R.
Assessing recent warming using instrumentally homogeneous sea surface temperature records.
Sci Adv. 2017;3(1):13.
doi: 10.1126/sciadv.1601207.
WOS:000393789900011.
Times Cited: 34

15. Huang BY, Thorne PW, Banzon VF, Boyer T, Chepurin G, Lawrimore JH, Menne MJ, Smith TM, Vose RS, Zhang HM.
Extended Reconstructed Sea Surface Temperature, Version 5 (ERSSTv5): Upgrades, Validations, and Intercomparisons.
J Clim. 2017;30(20):8179-205.
doi: 10.1175/jcli-d-16-0836.1.
WOS:000411438000009.
Times Cited: 108

16. Johnson KS, Plant JN, Coletti LJ, Jannasch HW, Sakamoto CM, Riser SC, Swift DD, Williams NL, Boss E, Haentjens N, Talley LD, Sarmiento JL.
Biogeochemical sensor performance in the SOCCOM profiling float array.
J Geophys Res-Oceans. 2017;122(8):6416-36.
doi: 10.1002/2017jc012838.
WOS:000410790600021.
Times Cited: 41

17. Kohl A.
Evaluation of the GECCO2 ocean synthesis: transports of volume, heat and freshwater in the Atlantic.
Q J R Meteorol Soc. 2015;141(686):166-81.
doi: 10.1002/qj.2347.
WOS:000349663200014.
Times Cited: 76

18. Laloyaux P, de Boisseson E, Balmaseda M, Bidlot JR, Broennimann S, Buizza R, Dalhgren P, Dee D, Haimberger L, Hersbach H, Kosaka Y, Martin M, Poli P, Rayner N, Rustemeier E, Schepers D.
CERA-20C: A Coupled Reanalysis of the Twentieth Century.
J Adv Model Earth Syst. 2018;10(5):1172-95.
doi: 10.1029/2018ms001273.
WOS:000435788600004.
Times Cited: 16

19. L'Heureux ML, Takahashi K, Watkins AB, Barnston AG, Becker EJ, Di Liberto TE, Gamble F, Gottschalck J, Halpert MS, Huang BY, Mosquera-Vasquez K, Wittenberg AT.
OBSERVING AND PREDICTING THE 2015/16 EL NINO.
Bull Amer Meteorol Soc. 2017;98(7):1363-82.
doi: 10.1175/bams-d-16-0009.1.
WOS:000406502800006.
Times Cited: 72

20. Loeb NG, Doelling DR, Wang HL, Su WY, Nguyen C, Corbett JG, Liang LS, Mitrescu C, Rose FG, Kato S.
Clouds and the Earth's Radiant Energy System (CERES) Energy Balanced and Filled (EBAF) Top-of-Atmosphere (TOA) Edition-4.0 Data Product.
J Clim. 2018;31(2):895-918.
doi: 10.1175/jcli-d-17-0208.1.
WOS:000425164800024.
Times Cited: 45

21. Lozier MS, Bacon S, Bower AS, Cunningham SA, de Jong MF, de Steur L, deYoung B, Fischer J, Gary SF, Greenan BJW, Heimbach P, Holliday NP, Houpert L, Inall ME, Johns WE, Johnson HL, Karstensen J, Li FL, Lin XP, Mackay N, Marshall DP, Mercier H, Myers PG, Pickart RS, Pillar HR, Straneo F, Thierry V, Weller RA, Williams RG, Wilson C, Yang JY, Zhao J, Zika JD.
OVERTURNING IN THE SUBPOLAR NORTH ATLANTIC PROGRAM A New International Ocean Observing System.
Bull Amer Meteorol Soc. 2017;98(4):737-52.
doi: 10.1175/bams-d-16-0057.1.
WOS:000400293700009.
Times Cited: 46

22. MacLachlan C, Arribas A, Peterson KA, Maidens A, Fereday D, Scaife AA, Gordon M, Vellinga M, Williams A, Comer RE, Camp J, Xavier P, Madec G.
Global Seasonal forecast system version 5 (GloSea5): a high-resolution seasonal forecast system.
Q J R Meteorol Soc. 2015;141(689):1072-84.
doi: 10.1002/qj.2396.
WOS:000356805700007.
Times Cited: 207

23. Masina S, Storto A, Ferry N, Valdivieso M, Haines K, Balmaseda M, Zuo H, Drevillon M, Parent L.
An ensemble of eddy-permitting global ocean reanalyses from the MyOcean project.
Clim Dyn. 2017;49(3):813-41.
doi: 10.1007/s00382-015-2728-5.
WOS:000407244700007.
Times Cited: 30

24. McCarthy GD, Smeed DA, Johns WE, Frajka-Williams E, Moat BI, Rayner D, Baringer MO, Meinen CS, Collins J, Bryden HL.
Measuring the Atlantic Meridional Overturning Circulation at 26 degrees N.
Prog Oceanogr. 2015;130:91-111.
doi: 10.1016/j.pocean.2014.10.006.
WOS:000349059800007.
Times Cited: 114

25. Medhaug I, Stolpe MB, Fischer EM, Knutti R.
Reconciling controversies about the 'global warming hiatus'.
Nature. 2017;545(7652):41-+.
doi: 10.1038/nature22315.
WOS:000400480400027.
Times Cited: 86

26. Nieves V, Willis JK, Patzert WC.
Recent hiatus caused by decadal shift in Indo-Pacific heating.
Science. 2015;349(6247):532-5.
doi: 10.1126/science.aaa4521.
WOS:000358713300055.
Times Cited: 78

27. Palmer MD, Roberts CD, Balmaseda M, Chang YS, Chepurin G, Ferry N, Fujii Y, Good SA, Guinehut S, Haines K, Hernandez F, Kohl A, Lee T, Martin MJ, Masina S, Masuda S, Peterson KA, Storto A, Toyoda T, Valdivieso M, Vernieres G, Wang O, Xue Y.
Ocean heat content variability and change in an ensemble of ocean reanalyses.
Clim Dyn. 2017;49(3):909-30.
doi: 10.1007/s00382-015-2801-0.
WOS:000407244700011.
Times Cited: 35

28. Pellichero V, Sallee JB, Schmidtko S, Roquet F, Charrassin JB.
The ocean mixed layer under Southern Ocean sea-ice: Seasonal cycle and forcing.
J Geophys Res-Oceans. 2017;122(2):1608-33.
doi: 10.1002/2016jc011970.
WOS:000398063100048.
Times Cited: 27

29. Pujol MI, Faugere Y, Taburet G, Dupuy S, Pelloquin C, Ablain M, Picot N.
DUACS DT2014: the new multi-mission altimeter data set reprocessed over 20 years.
Ocean Sci. 2016;12(5):1067-90.
doi: 10.5194/os-12-1067-2016.
WOS:000384145600001.
Times Cited: 88

30. Riser SC, Freeland HJ, Roemmich D, Wijffels S, Troisi A, Belbeoch M, Gilbert D, Xu JP, Pouliquen S, Thresher A, Le Traon PY, Maze G, Klein B, Ravichandran M, Grant F, Poulain PM, Suga T, Lim B, Sterl A, Sutton P, Mork KA, Velez-Belch PJ, Ansorge I, King B, Turton J, Baringer M, Jayne SR.
Fifteen years of ocean observations with the global Argo array.
Nat Clim Chang. 2016;6(2):145-53.
doi: 10.1038/nclimate2872.
WOS:000370963400013.
Times Cited: 120

31. Roemmich D, Church J, Gilson J, Monselesan D, Sutton P, Wijffels S.
Unabated planetary warming and its ocean structure since 2006.
Nat Clim Chang. 2015;5(3):240-5.
doi: 10.1038/nclimate2513.
WOS:000350327800019.
Times Cited: 155

32. Schmidtko S, Heywood KJ, Thompson AF, Aoki S.
Multidecadal warming of Antarctic waters.
Science. 2014;346(6214):1227-31.
doi: 10.1126/science.1256117.
WOS:000346189000057.
Times Cited: 130

33. Tommasi D, Stock CA, Hobday AJ, Methot R, Kaplan IC, Eveson JP, Holsman K, Miller TJ, Gaichas S, Gehlen M, Pershing A, Vecchi GA, Msadek R, Delworth T, Eakin CM, Haltuch MA, Seferian R, Spillman CM, Hartog JR, Siedlecki S, Samhouri JF, Muhling B, Asch RG, Pinsky ML, Saba VS, Kapnick SB, Gaitan CF, Rykaczewski RR, Alexander MA, Xue Y, Pegion KV, Lynch P, Payne MR, Kristiansen T, Lehodey P, Werner FE.
Managing living marine resources in a dynamic environment: The role of seasonal to decadal climate forecasts.
Prog Oceanogr. 2017;152:15-49.
doi: 10.1016/j.pocean.2016.12.011.
WOS:000400202100002.
Times Cited: 31

34. Trenberth KE, Fasullo JT, Balmaseda MA.
Earth's Energy Imbalance.
J Clim. 2014;27(9):3129-44.
doi: 10.1175/jcli-d-13-00294.1.
WOS:000337272700004.
Times Cited: 119

35. Valdivieso M, Haines K, Balmaseda M, Chang YS, Drevillon M, Ferry N, Fujii Y, Kohl A, Storto A, Toyoda T, Wang XC, Waters J, Xue Y, Yin YH, Barnier B, Hernandez F, Kumar A, Lee T, Masina S, Peterson KA.
An assessment of air-sea heat fluxes from ocean and coupled reanalyses.

Clim Dyn. 2017;49(3):983-1008.
doi: 10.1007/s00382-015-2843-3.
WOS:000407244700014.
Times Cited: 30

36. von Schuckmann K, Palmer MD, Trenberth KE, Cazenave A, Chambers D, Champollion N, Hansen J, Josey SA, Loeb N, Mathieu PP, Meyssignac B, Wild M.
An imperative to monitor Earth's energy imbalance.
Nat Clim Chang. 2016;6(2):138-44.
doi: 10.1038/nclimate2876.
WOS:000370963400012.
Times Cited: 87

37. Waterhouse AF, MacKinnon JA, Nash JD, Alford MH, Kunze E, Simmons HL, Polzin KL, St Laurent LC, Sun OM, Pinkel R, Talley LD, Whalen CB, Huussen TN, Carter GS, Fer I, Waterman S, Garabato ACN, Sanford TB, Lee CM.
Global Patterns of Diapycnal Mixing from Measurements of the Turbulent Dissipation Rate.
J Phys Oceanogr. 2014;44(7):1854-72.
doi: 10.1175/jpo-d-13-0104.1.
WOS:000339183800010.
Times Cited: 133

38. Yashayaev I, Loder JW.
Recurrent replenishment of Labrador Sea Water and associated decadal-scale variability.
J Geophys Res-Oceans. 2016;121(11):8095-114.
doi: 10.1002/2016jc012046.
WOS:000392841000010.
Times Cited: 52

39. Zhang ZG, Wang W, Qiu B.
Oceanic mass transport by mesoscale eddies.
Science. 2014;345(6194):322-4.
doi: 10.1126/science.1252418.
WOS:000339400700050.
Times Cited: 117

40. Zuo H, Balmaseda MA, Mogensen K.
The new eddy-permitting ORAP5 ocean reanalysis: description, evaluation and uncertainties in climate signals.
Clim Dyn. 2017;49(3):791-811.
doi: 10.1007/s00382-015-2675-1.
WOS:000407244700006.
Times Cited: 29

6. Author's Countries

6.1. All countries

List

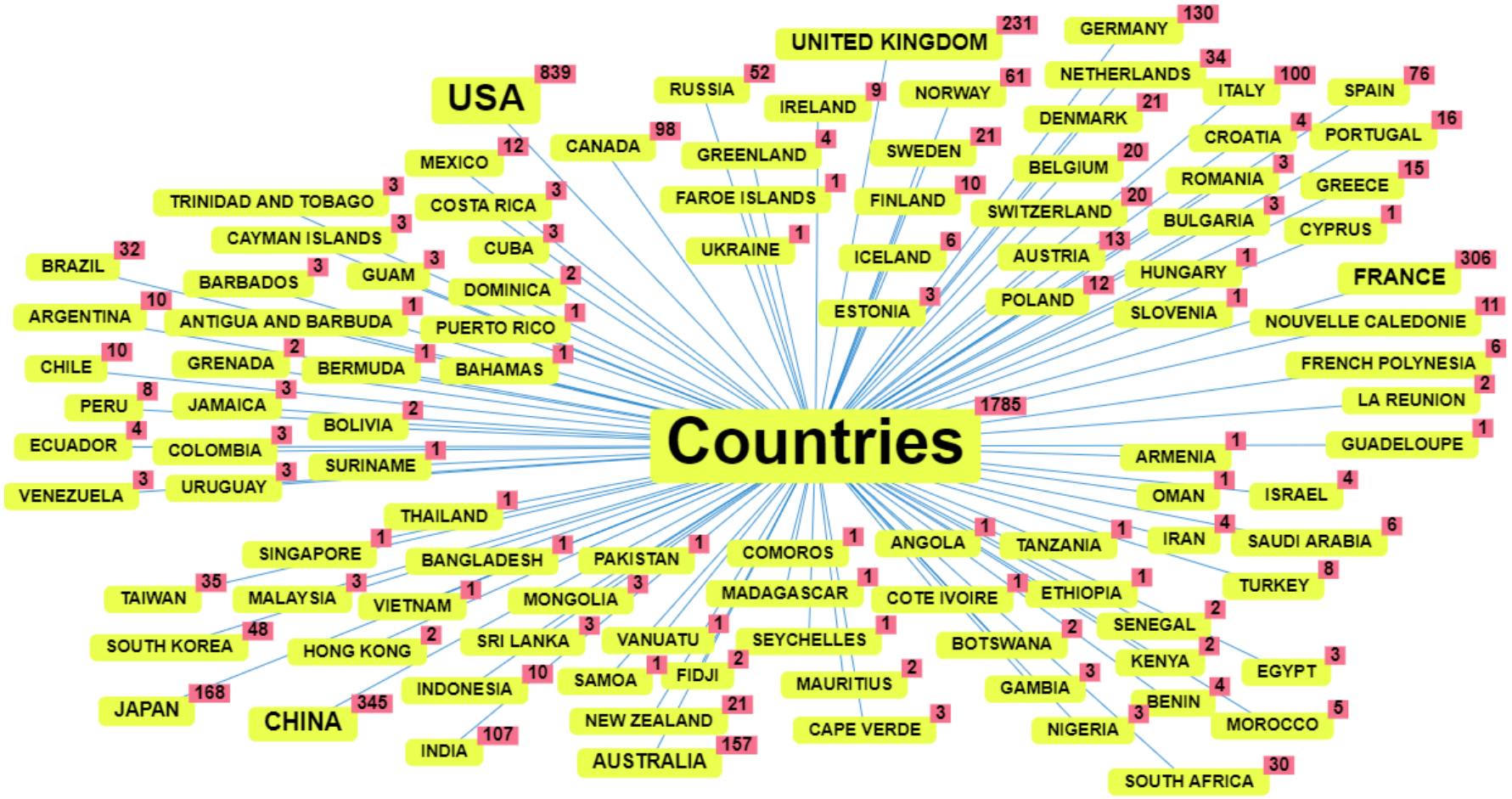
Author's Country	Nb Publi.
USA	839
CHINA	345
FRANCE	306
UNITED KINGDOM	231
JAPAN	168
AUSTRALIA	157
GERMANY	130
INDIA	107
ITALY	100
CANADA	98
SPAIN	76
NORWAY	61
RUSSIA	52
SOUTH KOREA	48
TAIWAN	35
NETHERLANDS	34
BRAZIL	32
SOUTH AFRICA	30
DENMARK	21
NEW ZEALAND	21
SWEDEN	21
BELGIUM	20
SWITZERLAND	20
PORTUGAL	16
GREECE	15
AUSTRIA	13
MEXICO	12
POLAND	12
NOUVELLE CALEDONIE	11
ARGENTINA	10
CHILE	10
FINLAND	10
INDONESIA	10
IRELAND	9
PERU	8
TURKEY	8
FRENCH POLYNESIA	6
ICELAND	6
SAUDI ARABIA	6
MOROCCO	5
BENIN	4
CROATIA	4
ECUADOR	4
GREENLAND	4
IRAN	4
ISRAEL	4
BARBADOS	3
BULGARIA	3
CAPE VERDE	3
CAYMAN ISLANDS	3
COLOMBIA	3
COSTA RICA	3
CUBA	3
EGYPT	3
ESTONIA	3
GAMBIA	3
GUAM	3
JAMAICA	3
MALAYSIA	3
MONGOLIA	3
NIGERIA	3
ROMANIA	3
SRI LANKA	3
TRINIDAD AND TOBAGO	3

URUGUAY	3
VENEZUELA	3
BOLIVIA	2
BOTSWANA	2
DOMINICA	2
FIDJI	2
GRENADA	2
HONG KONG	2
KENYA	2
LA REUNION	2
MAURITIUS	2
SENEGAL	2
ANGOLA	1

ANTIGUA AND BARBUDA	1
ARMENIA	1
BAHAMAS	1
BANGLADESH	1
BERMUDA	1
COMOROS	1
COTE IVOIRE	1
CYPRUS	1
ETHIOPIA	1
FAROE ISLANDS	1
GUADELOUPE	1
HUNGARY	1
MADAGASCAR	1

OMAN	1
PAKISTAN	1
PUERTO RICO	1
SAMOA	1
SEYCHELLES	1
SINGAPORE	1
SLOVENIA	1
SURINAME	1
TANZANIA	1
THAILAND	1
UKRAINE	1
VANUATU	1
VIETNAM	1

Figure


Countries
1785
USA
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UNITED KINGDOM
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FRANCE
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AUSTRALIA
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CHINA
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JAPAN
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CANADA
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GERMANY
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NETHERLANDS
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ITALY
100
SPAIN
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RUSSIA
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IRELAND
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NORWAY
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DENMARK
21
CROATIA
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PORTUGAL
16
GREENLAND
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SWEDEN
21
BELGIUM
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ROMANIA
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GREECE
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FAROE ISLANDS
1
FINLAND
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SWITZERLAND
20
BULGARIA
3
CYPRUS
1
UKRAINE
1
ICELAND
6
AUSTRIA
13
HUNGARY
1
ESTONIA
3
POLAND
12
SLOVENIA
1
NOUVELLE CALEDONIE
11
FRENCH POLYNESIA
6
LA REUNION
2
GUADELOUPE
1
ARMENIA
1
OMAN
1
ISRAEL
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IRAN
4
SAUDI ARABIA
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TURKEY
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SENEGAL
2
KENYA
2
EGYPT
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BENIN
4
MOROCCO
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SOUTH AFRICA
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NIGERIA
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GAMBIA
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BOTSWANA
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ETHIOPIA
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TANZANIA
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ANGOLA
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COMOROS
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COTE IVOIRE
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MADAGASCAR
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MAURITIUS
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CAPE VERDE
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VANUATU
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FIDJI
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SAMOA
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NEW ZEALAND
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MALAYSIA
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BANGLADESH
1
SINGAPORE
1
THAILAND
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MEXICO
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TRINIDAD AND TOBAGO
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COSTA RICA
3
CAYMAN ISLANDS
3
CUBA
3
BRAZIL
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GUAM
3
BARBADOS
3
DOMINICA
2
ARGENTINA
10
ANTIGUA AND BARBUDA
1
PUERTO RICO
1
CHILE
10
GRENADA
2
BERMUDA
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BAHAMAS
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PERU
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JAMAICA
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BOLIVIA
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ECUADOR
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COLOMBIA
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SURINAME
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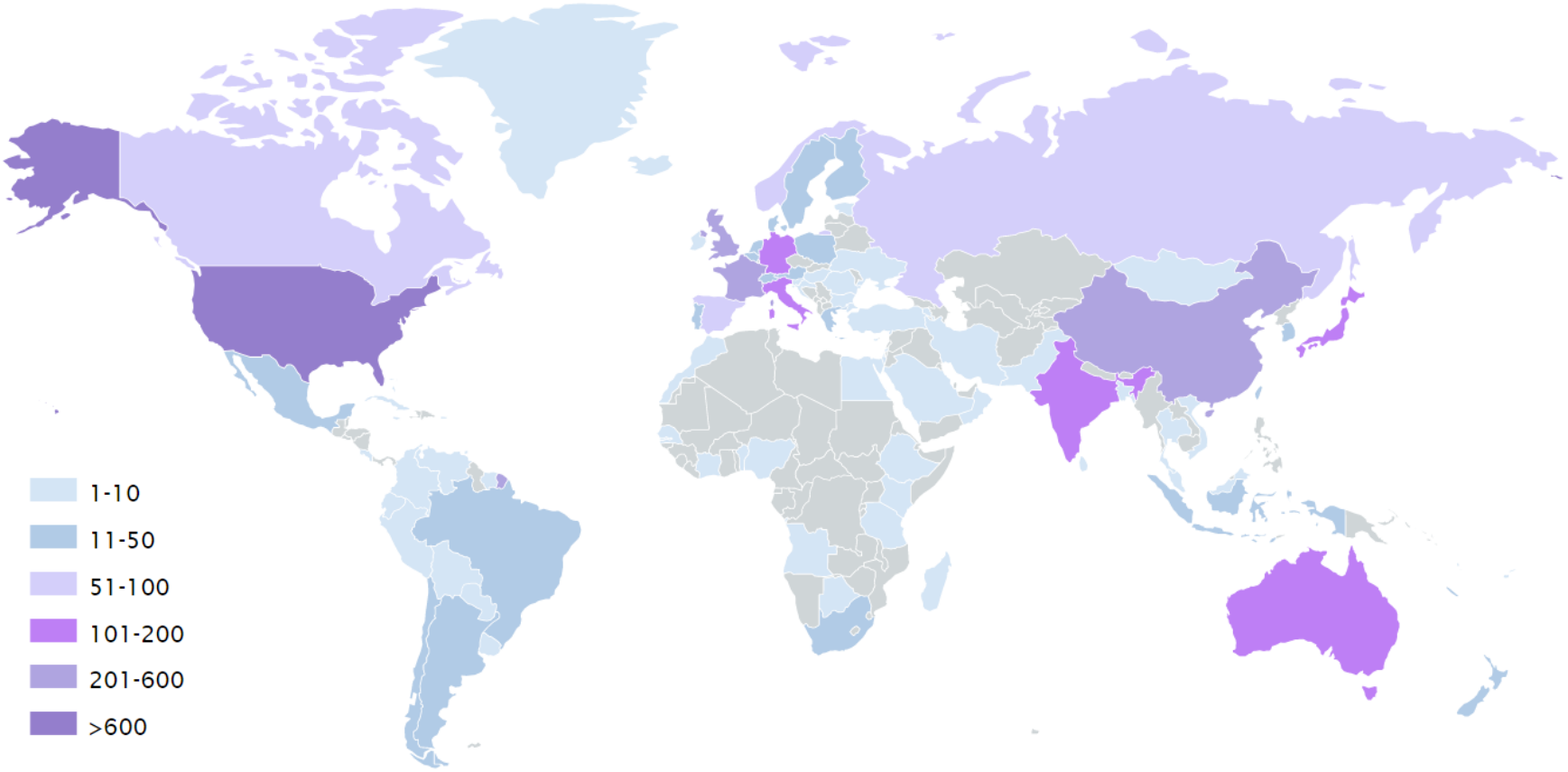
VENEZUELA
3
URUGUAY
3

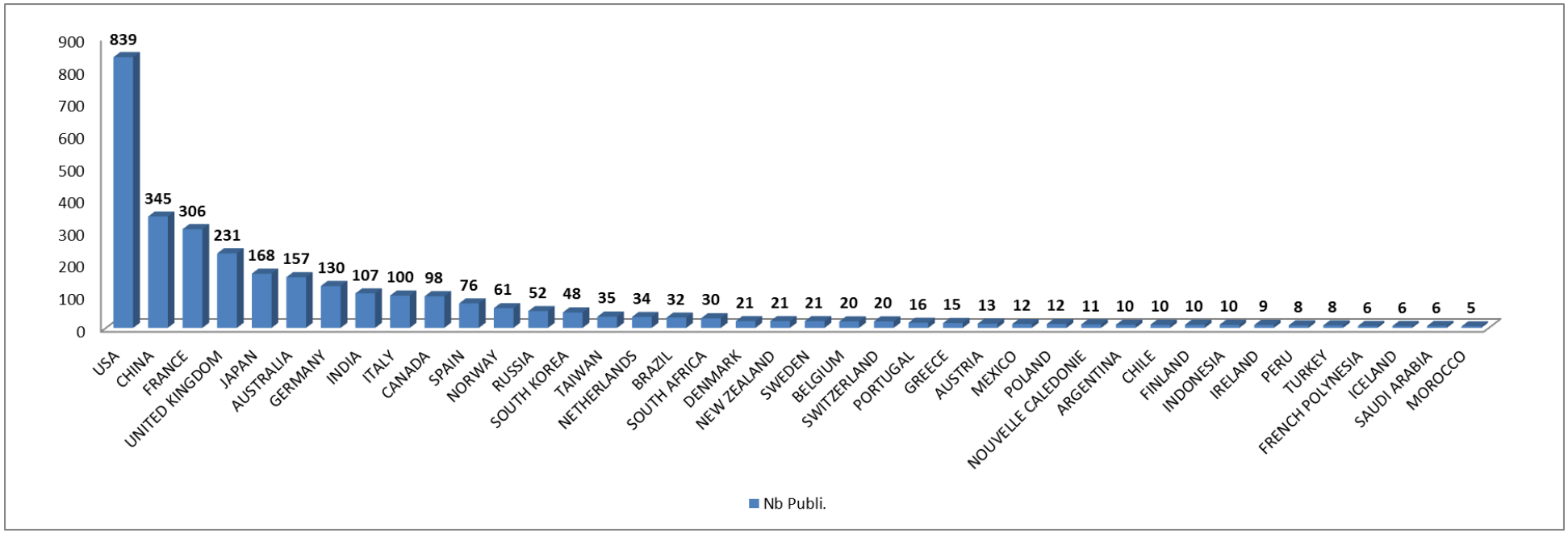
World map



6.2. Main countries

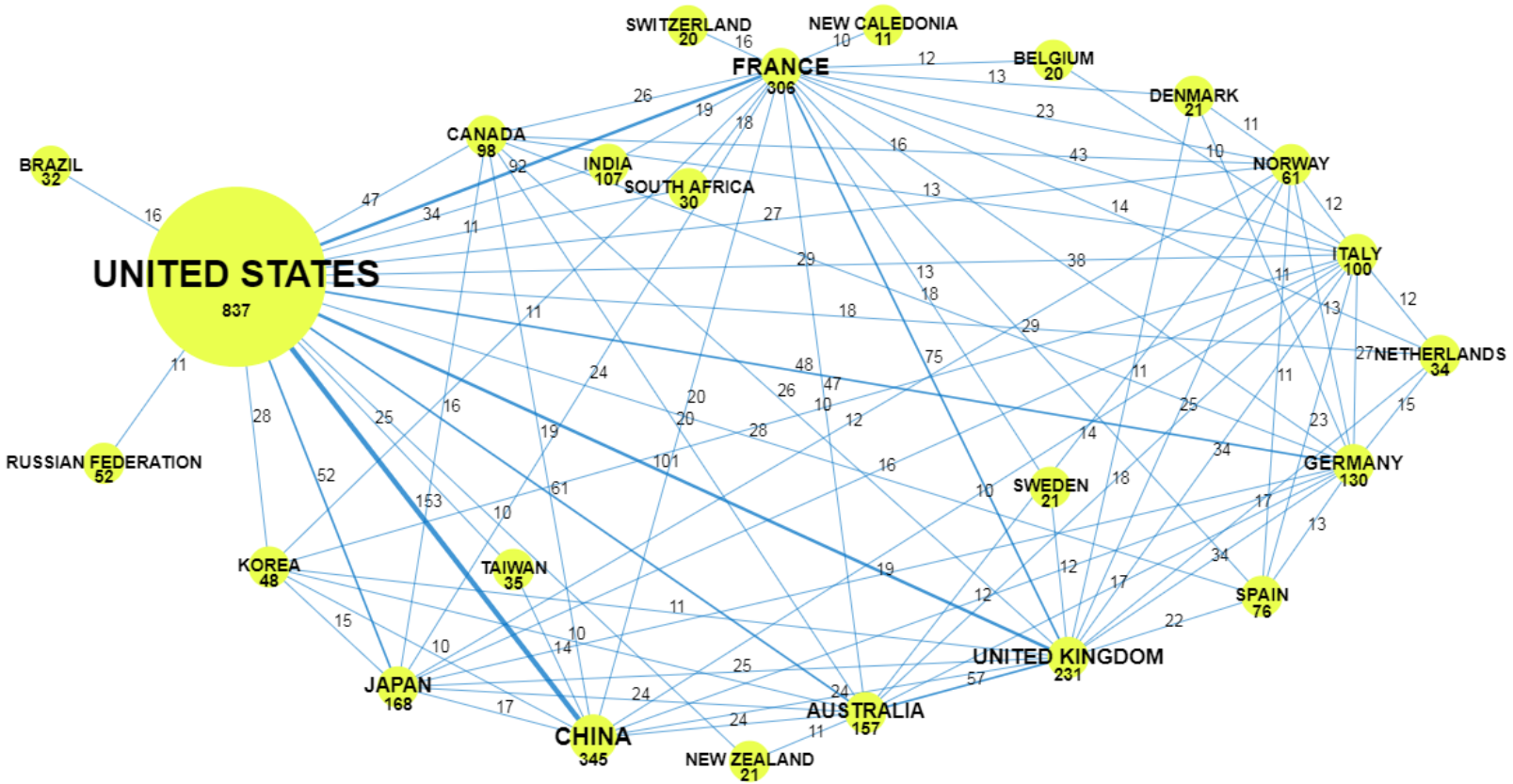
Graph

Countries with at leat 5 papers



Network

at least 10 co-articles



For example: 837 papers have one or more co-authors with United States noted in the affiliation. 32 papers have one or more co-authors with Brazil noted in the affiliation. 16 papers have at least one co-author from United States and another co-author from Brazil.

Evolution of the number of publications per Country

at least 5 papers between 2014&2018

	2014	2015	2016	2017	2018	TOTAL (2014-2018)
UNITED STATES	169	148	171	194	155	**837**
CHINA	54	67	61	74	89	**345**
FRANCE	67	68	65	78	28	**306**
UNITED KINGDOM	45	54	43	59	30	**231**
JAPAN	32	40	35	43	18	**168**
AUSTRALIA	25	41	23	31	37	**157**
GERMANY	19	29	32	29	21	**130**
INDIA	19	21	18	21	28	**107**
ITALY	17	16	26	28	13	**100**
CANADA	10	28	23	19	18	**98**
SPAIN	15	17	20	13	11	**76**
NORWAY	13	12	13	12	11	**61**
RUSSIAN FEDERATION	8	6	21	6	11	**52**
KOREA	12	13	5	10	8	**48**
TAIWAN	10	7	6	9	3	**35**
NETHERLANDS	4	3	12	6	9	**34**
BRAZIL	7	9	5	6	5	**32**
SOUTH AFRICA	9	6	9	3	3	**30**
DENMARK	2	4	4	8	3	**21**
NEW ZEALAND	7	4	4	5	1	**21**
SWEDEN	6	3	6	4	2	**21**
BELGIUM	2	5	5	7	1	**20**
SWITZERLAND	3	4	1	10	2	**20**
PORTUGAL	4	6	3	1	2	**16**
GREECE	5	2	4	2	2	**15**
AUSTRIA	2	2	3	3	3	**13**
MEXICO	3	1	2	2	4	**12**
POLAND	2	1	3	2	4	**12**
NEW CALEDONIA	6	3	1	1	0	**11**
ARGENTINA	3	1	3	2	1	**10**
FINLAND	1	1	4	1	3	**10**
INDONESIA	1	1	3	3	2	**10**
CHILE	0	2	2	2	4	**10**
IRELAND	1	2	3	2	1	**9**
PERU	3	2	0	2	1	**8**
TURKEY	2	1	0	5	0	**8**
ICELAND	2	1	1	2	0	**6**
SAUDI ARABIA	0	1	0	4	1	**6**
MOROCCO	3	1	0	1	0	**5**
FRENCH POLYNESIA	0	0	1	3	1	**5**

6.3. International & European Countries

1483 papers are with at least one affiliation from an international country (other than Europe Union - UE): 83%
663 papers are with at least one affiliation from an European country (UE): 37 %

1122 papers are only with affiliations from international countries (other than Europe Union - UE): 63 %.
302 papers are only with affiliations affiliation from European countries (UE): 17 %
361 papers are with affiliations from both European (UE) and International countries: 20%

UE is used to refer to the European Union

7. Author's Organization

7.1. Top Organizations

Author's Institution (at least 10 papers)	Nb Publi.
[CNRS FR]	215
[NOAA US]	198
[UNIV CALIF US] (mainly including UNIV San Diego (123), Los Angeles (39), Santa Cruz (14), Irvine (10))	182
[IRD FR]	163
[CHINESE ACAD SCI CN] (including different thematic Institutes, e.g. CAS INST OCEANOL)*	154
[UPMC FR]	132
[SCRIPPS INST OCEANOG MARINE US]	123
[UNIV WASHINGTON US]	109
[CAS INST OCEANOL CN]	108
[JAMSTEC JP]	98
[SOA CN]	95
[CSIRO AU]	89
[UNIV OCEAN CHINA CN]	85
[WOODS HOLE US]	85
[CALTECH PASADENA US]	81
[IFREMER FR]	81
[MNHN FR]	81
[NOC GB]	74
[UNIV HAWAII US]	69
[QNLM CN]	65
[UNIV BREST FR]	64
[MET OFF GB]	57
[UNIV TOULOUSE 3 FR]	54
[UNIV MIAMI US]	53
[UNIV CHINESE ACAD SCI CN]	52
[NASA US]	51
[IFM GEOMAR DE]	49
[CNES FR]	48
[MERCATOR FR]	48
[CSIC ES] (including different thematic Institutes, e.g. CSIC ICM ES)*	47
[UNIV TASMANIA AU]	45
[UNIV PRINCETON US]	44
[UNIV SOUTHAMPTON GB]	44
[RUSSIAN ACAD SCI RU] (including different thematic Institutes, e.g. RAS INST SHIRSHOV RU)*	43
[UNIV TOKYO JP]	43
[MASSACHUSETTS INST TECHN US]	40
[CLS FR]	39
[CAS INST ATMOSPHER CN]	38

[METEOROL BUREAU AU]	38
[CNRM METEO FRANCE FR]	37
[MPO CA]	37
[UNIV HAMBURG DE]	37
[UNIV MARYLAND US]	37
[CTR EUROMED CAMB CLIMAT IT]	36
[UNIV COLUMBIA US]	36
[CTR NATL ATMOSPH BOULDER US]	35
[METEOROL RES INST JP]	35
[CSIR NIO IN]	34
[JAPAN METEOROL AGCY JP]	34
[ARC CTR CLIMATE AU]	33
[CRC ANTAR CLIM ECOSYST AU]	33
[ECMWF GB]	33
[UNIV XIAMEN CN]	33
[CSIC ICM ES]	32
[INGV IT]	32
[UNIV NEW SOUTH WALES AU]	32
[UNIV READING GB]	32
[IMAS AU]	31
[UNIV OREGON US]	31
[UNIV COLORADO US]	31
UNIV STATE FLORIDA US	30
[CNR IT] (including different thematic Institutes, e.g. CNR ISAC, CNR ISMAR, CNR IAMC)*	28
[INCOIS IN]	27
[UNIV CAPE TOWN ZA]	27
[LAMONT DOHERTY EARTH OBS US]	26
[UNIV MAINE US]	26
[UNIV NANJING CN]	25
[INST BEDFORD OCEAN CA]	23
[UNIV BERGEN NO]	23
[INST MONTEREY BAY AQUA US]	22
[CTR STENNIS SPACE US]	21
[INST ATMOS OCEAN US]	21
[OGS TRIESTE IT]	21
[RAS INST SHIRSHOV RU]	21
[UNIV TOHOKU JP]	21
[INDIAN INST TROP METEOROL IN]	20
[ISRO IN]	20
[NIWA NZ]	20
[ENVIRON RES CA]	19
[NCEO GB]	19
[PLYMOUTH MARINE LAB GB]	19
[UNIV BREMEN DE]	19

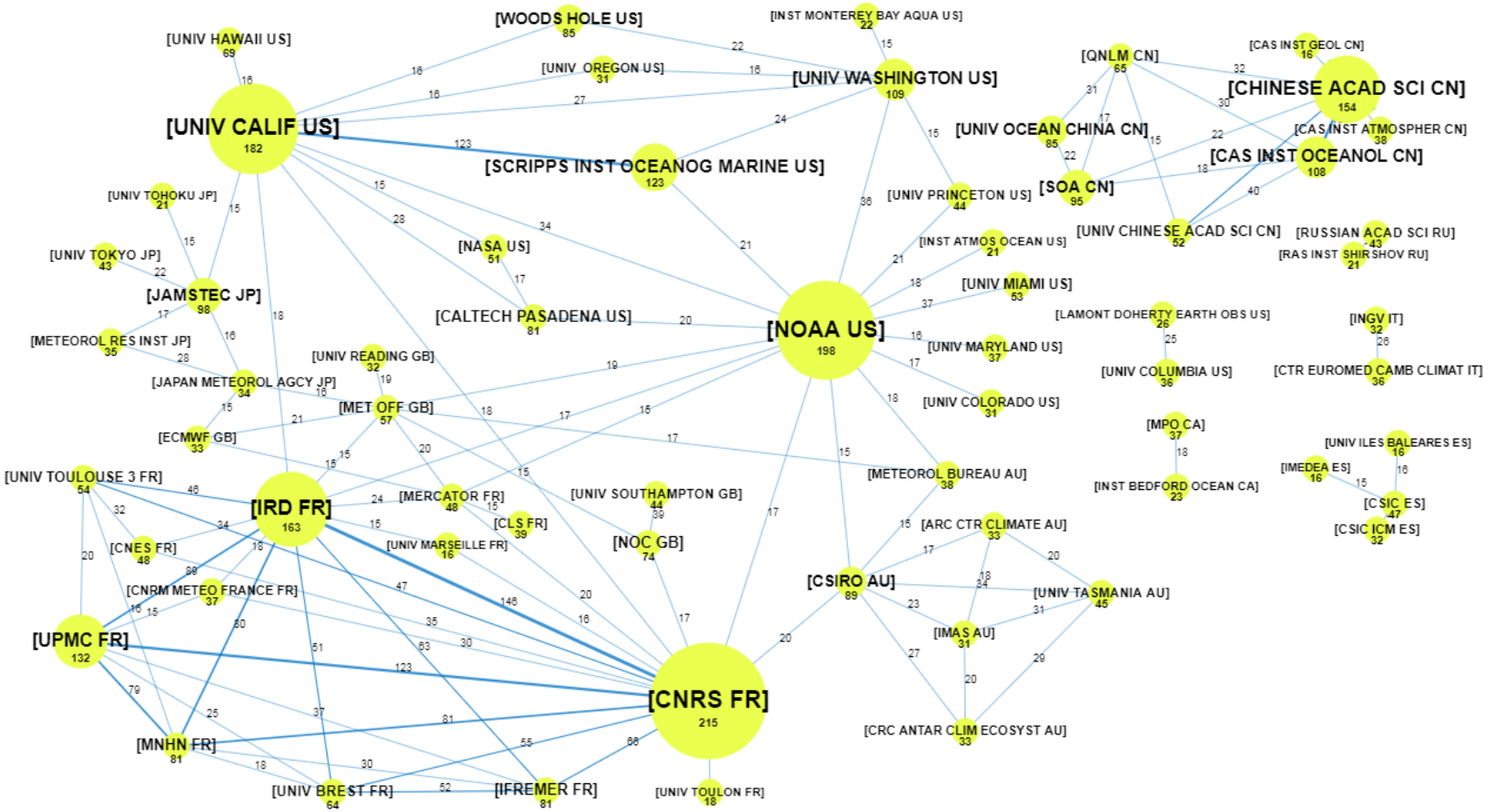
[UNIV NORTH CAROLINA US]	19
[UNIV UTRECHT NL]	19
[AWI DE]	18
[IMR NO]	18
[NERSC NO]	18
[UNIV AM TEXAS US]	18
[UNIV DUKE US]	18
[UNIV TOULON FR]	18
[NRIFS JFREA JP]	17
[UNIV EAST ANGLIA GB]	17
[UNIV LONDON GB] (including mainly COLL IMPERIAL LONDON)*	17
[UNIV SOUTH CAROLINA US]	17
[CAS INST GEOL CN]	16
[CTR NATL MAR ENVIRON FORECAST CN]	16
[IMEDEA ES]	16
[UNIV ILES BALEARES ES]	16
[UNIV MARSEILLE FR]	16
[BRITISH ANTARC SURVEY GB]	15
[INC ATMOSPH ENVIRON RES US]	15
[INST MAX PLANCK DE]	15
[MIN EARTH IN]	15
[UNIV HOKKAIDO JP]	15
[UNIV KIEL DE]	15
[CNR ISAC IT]	14
[EARTH SPACE RES US]	14
[IEO ES]	14
[UNIV DELAWARE US]	14
[UNIV LIEGE BE]	14
[UNIV NATL TAIWAN TW]	14
[BALEAR ISL COASTAL OBS ES]	13
[COLL IMPERIAL LONDON GB]	13
[KIOST KR]	13
[NCAOR IN]	13
[UNIV BRITISH COLUMBIA CA]	13
[UNIV CORP ATMOSPH US]	13
[UNIV RHODE ISL US]	13
[UNIV TSINGHUA CN]	13
[CNR ISMAR IT]	12
[INST OCEAN SCI CA]	12
[SERV NATL MARINE DATA CN]	12
[UNIV RUTGERS US]	12
[UNIV TEXAS AUSTIN US]	12
[USN MONTEREY US]	12
UNIV S FLORIDA US	12
[ACAD SINICA TW]	11

[ASSO MAR SCI OBAN GB]	11
[HCMR GR]	11
[INST METEO NO]	11
[UNIV ARIZONA US]	11
[UNIV DALHOUSIE CA]	11
[UNIV MASSACHUSETTS US]	11
[UNIV NATL KONGJU KR]	11
[UNIV STOCKHOLM SE]	11
[UNIV TECH DTU DK]	11
INC SYST APPLICAT US	11
[CAS INST REMOTE SENSING CN]	10
[CNR IAMC IT]	10
[ESA IT]	10
[GEORGIA INST US]	10
[HZG GEESTHACHT DE]	10
[INDIAN INST SCIENCE IN]	10
[METEOROL INST FI]	10
[PACIFIC NW NATL LAB US]	10
[RAS INST MARINE BIOL RU]	10
[UNIV BOLOGNA IT]	10
[UNIV GRENOBLE FR]	10
[UNIV J HOPKINS US]	10
[UNIV OCEAN ZHEJIANG CN]	10
[UNIV WEST AU]	10

*See in this table, the detail of the number of publications (>=10) for each thematic institute

7.2. Network of main Organizations

at least 15 co-publications



For example: 198 papers have one or more co-authors with the NOAA institution noted in the author address (affiliation). 215 papers have one or more co-authors with CNRS Institution noted in the affiliation. 17 papers have at least one co-author from NOAA and another one from CNRS.

7.3. Evolution of the number of publications of Top Organizations

List

Evolution 2014-2018 of the number of publications for Top Organizations with at least 10 papers from 2014 to 2018

Organizations (> 10 publications between 2014-2018)	2014	2015	2016	2017	2018	Total of publications 2014-2018
[ACAD SINICA TW]	4	1	1	3	2	11
[ARC CTR CLIMATE AU]	6	6	6	4	11	33
[ASSO MAR SCI OBAN GB]	3	3	2	3	0	11
[AWI DE]	4	3	8	3	0	18
[BALEAR ISL COASTAL OBS ES]	2	3	3	3	2	13
[BRITISH ANTARC SURVEY GB]	5	5	3	1	1	15
[CALTECH PASADENA US]	20	16	15	23	7	81
[CAS INST ATMOSPHER CN]	5	11	6	3	13	38
[CAS INST GEOL CN]	1	6	3	0	6	16
[CAS INST OCEANOL CN]	14	25	22	23	24	108
[CAS INST REMOTE SENSING CN]	2	1	3	2	2	10
[CHINESE ACAD SCI CN] (including different thematic Institutes, e.g. CAS INST OCEANOL)*	22	36	32	27	37	154
[CLS FR]	5	11	7	12	4	39
[CNES FR]	12	12	8	11	5	48
[CNR ISAC IT]	3	1	4	2	4	14
[CNR ISMAR IT]	1	1	4	3	3	12
[CNR IT] (including different thematic Institutes, e.g. CNR ISAC, CNR ISMAR, CNR IAMC)*	5	3	9	5	6	28
[CNRM METEO FRANCE FR]	9	5	10	9	4	37
[CNRS FR]	50	48	40	55	22	215
[COLL IMPERIAL LONDON GB]	1	4	3	4	1	13
[CRC ANTAR CLIM ECOSYST AU]	7	9	4	5	8	33
[CSIC ES] (including different thematic Institutes, e.g. CSIC ICM ES)*	9	9	11	12	6	47
[CSIC ICM ES]	7	7	8	6	4	32
[CSIR NIO IN]	7	4	9	7	7	34
[CSIRO AU]	18	23	14	14	20	89
[CTR EUROMED CAMB CLIMAT IT]	2	4	11	15	4	36
[CTR NATL ATMOSPH BOULDER US]	5	2	12	8	8	35
[CTR NATL MAR ENVIRON FORECAST CN]	2	5	0	5	4	16
[CTR STENNIS SPACE US]	7	5	4	5	0	21
[EARTH SPACE RES US]	6	3	2	2	1	14

[ECMWF GB]	3	6	5	15	4	33
[ENVIRON RES CA]	3	7	4	3	2	19
[ESA IT]	4	1	2	2	1	10
[GEORGIA INST US]	4	1	2	3	0	10
[HCMR GR]	3	1	3	2	2	11
[HZG GEESTHACHT DE]	2	2	2	3	1	10
[IEO ES]	2	3	6	3	0	14
[IFM GEOMAR DE]	12	9	9	9	10	49
[IFREMER FR]	27	13	27	11	3	81
[IMAS AU]	9	7	2	4	9	31
[IMEDEA ES]	2	3	4	5	2	16
[IMR NO]	3	0	5	4	6	18
[INC ATMOSPH ENVIRON RES US]	3	1	4	4	3	15
[INCOIS IN]	4	6	7	6	4	27
[INDIAN INST SCIENCE IN]	3	0	2	2	3	10
[INDIAN INST TROP METEOROL IN]	3	3	4	2	8	20
[INGV IT]	3	6	11	10	2	32
[INST ATMOS OCEAN US]	4	4	6	6	1	21
[INST BEDFORD OCEAN CA]	1	9	5	6	2	23
[INST MAX PLANCK DE]	3	2	2	2	6	15
[INST METEO NO]	2	4	1	3	1	11
[INST OCEAN SCI CA]	2	3	3	1	3	12
[IRD FR]	47	35	35	36	10	163
[ISRO IN]	6	5	3	2	4	20
[JAMSTEC JP]	14	21	26	25	12	98
[JAPAN METEOROL AGCY JP]	4	10	5	13	2	34
[KIOST KR]	4	4	1	2	2	13
[LAMONT DOHERTY EARTH OBS US]	4	4	5	9	4	26
[MASSACHUSETTS INST TECHN US]	3	12	8	10	7	40
[MERCATOR FR]	5	11	15	15	2	48
[MET OFF GB]	7	17	9	18	6	57
[METEOROL BUREAU AU]	7	13	4	12	2	38
[METEOROL INST FI]	1	1	4	1	3	10
[METEOROL RES INST JP]	2	12	5	14	2	35
[MIN EARTH IN]	2	4	2	5	2	15
[MNHN FR]	28	17	16	14	6	81
[MPO CA]	4	15	8	6	4	37
[NASA US]	8	9	11	18	5	51
[NCEO GB]	2	1	4	9	3	19
[NERSC NO]	3	4	5	3	3	18
[NIWA NZ]	7	4	4	5	0	20
[NOAA US]	45	41	32	49	31	198
[NOC GB]	17	16	11	16	14	74
[NRIFS JFREA JP]	8	3	3	3	0	17
[OGS TRIESTE IT]	2	3	7	5	4	21

[PLYMOUTH MARINE LAB GB]	2	4	5	5	3	19
[RAS INST MARINE BIOL RU]	1	1	5	2	1	10
[RAS INST SHIRSHOV RU]	4	2	9	3	3	21
[RUSSIAN ACAD SCI RU] (including different thematic Institutes, e.g. RAS INST SHIRSHOV RU)*	5	3	19	5	11	43
[SCRIPPS INST OCEANOG MARINE US]	21	19	29	31	23	123
[SERV NATL MARINE DATA CN]	6	2	2	1	1	12
[SOA CN]	19	13	14	20	29	95
[UNIV OREGON US]	4	3	6	10	8	31
[UNIV AM TEXAS US]	6	0	4	6	2	18
[UNIV ARIZONA US]	1	1	1	3	5	11
[UNIV BERGEN NO]	6	2	4	5	6	23
[UNIV BOLOGNA IT]	1	2	4	1	2	10
[UNIV BREMEN DE]	2	7	4	6	0	19
[UNIV BREST FR]	15	15	21	10	3	64
[UNIV BRITISH COLUMBIA CA]	2	1	1	2	7	13
[UNIV CALIF US] (mainly including UNIV San Diego, Los Angeles, Santa Cruz, Irvine)	29	37	40	49	27	182
[UNIV CAPE TOWN ZA]	9	5	8	2	3	27
[UNIV CHINESE ACAD SCI CN]	6	9	12	8	17	52
[UNIV COLORADO US]	3	5	7	7	9	31
[UNIV COLUMBIA US]	5	6	8	12	5	36
[UNIV CORP ATMOSPH US]	6	1	1	3	2	13
[UNIV DALHOUSIE CA]	2	1	2	2	4	11
[UNIV DELAWARE US]	3	3	2	4	2	14
[UNIV DUKE US]	3	4	5	3	3	18
[UNIV EAST ANGLIA GB]	6	3	1	3	4	17
[UNIV GRENOBLE FR]	5	1	1	3	0	10
[UNIV HAMBURG DE]	3	11	10	10	3	37
[UNIV HAWAII US]	20	17	10	14	8	69
[UNIV HOKKAIDO JP]	5	5	3	2	0	15
[UNIV ILES BALEARES ES]	2	2	4	7	1	16
[UNIV J HOPKINS US]	1	0	3	5	1	10
[UNIV KIEL DE]	1	0	6	4	4	15
[UNIV LIEGE BE]	2	3	2	6	1	14
[UNIV LONDON GB] (including mainly COLL IMPERIAL LONDON)*	2	4	4	5	2	17
[UNIV MAINE US]	3	3	3	10	7	26
[UNIV MARSEILLE FR]	5	2	5	4	0	16
[UNIV MARYLAND US]	10	4	4	11	8	37
[UNIV MASSACHUSETTS US]	2	3	3	1	2	11
[UNIV MIAMI US]	11	12	8	13	9	53
[UNIV NANJING CN]	3	6	4	6	6	25

[UNIV NATL KONGJU KR]	3	2	0	5	1	11
[UNIV NATL TAIWAN TW]	5	3	2	3	1	14
[UNIV NEW SOUTH WALES AU]	3	8	5	8	8	32
[UNIV NORTH CAROLINA US]	6	6	1	3	3	19
[UNIV OCEAN CHINA CN]	14	13	19	19	20	85
[UNIV OCEAN ZHEJIANG CN]	1	3	0	2	4	10
[UNIV PRINCETON US]	4	5	9	15	11	44
[UNIV READING GB]	3	5	4	16	4	32
[UNIV RHODE ISL US]	5	0	4	2	2	13
[UNIV RUTGERS US]	4	2	3	3	0	12
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[UNIV SOUTHAMPTON GB]	13	10	5	9	7	44
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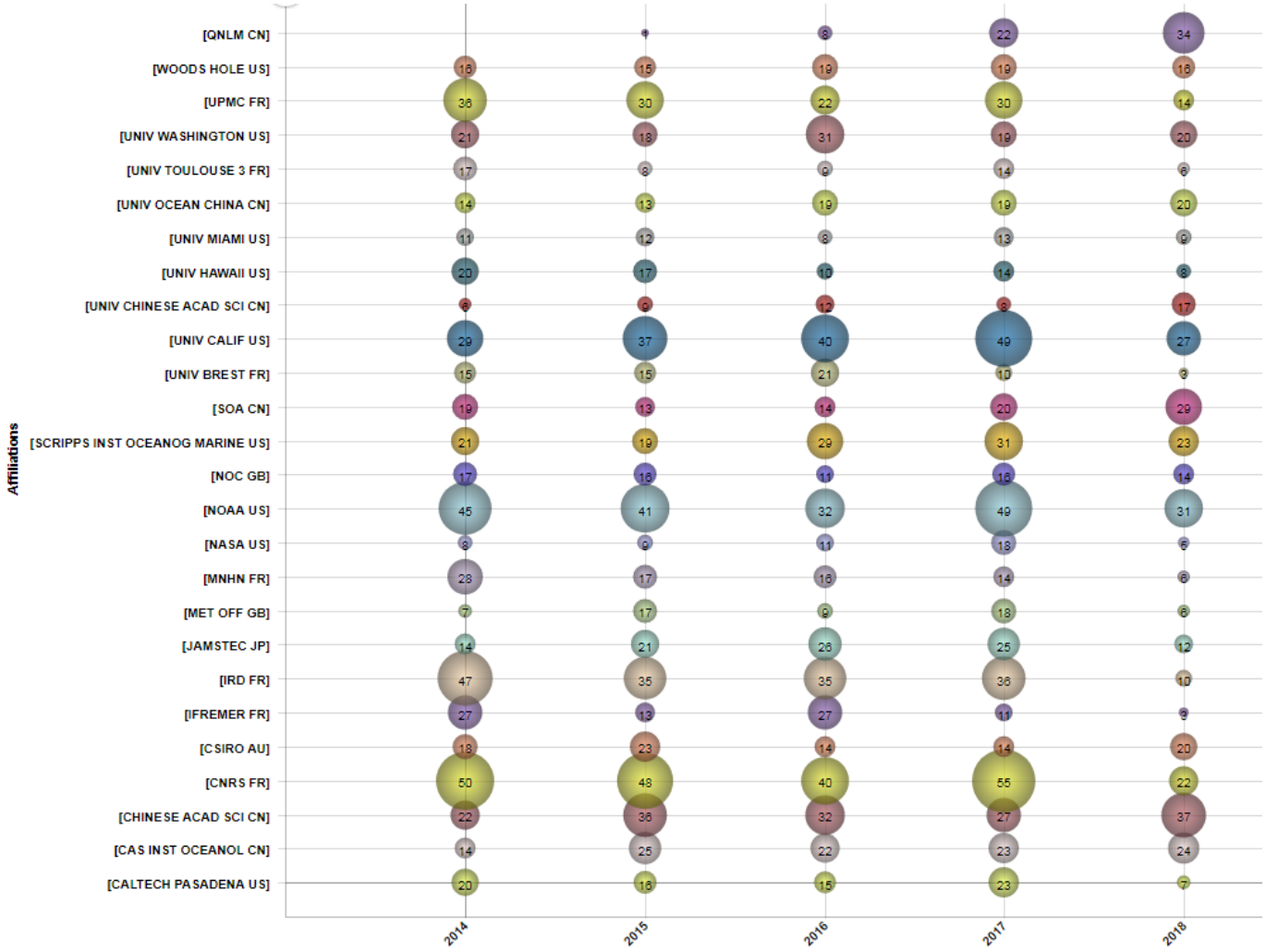
[UNIV TASMANIA AU]	12	10	5	5	13	45
[UNIV TECH DTU DK]	1	3	1	4	2	11
[UNIV TOHOKU JP]	7	3	8	2	1	21
[UNIV TOKYO JP]	9	9	5	14	6	43
[UNIV TOULON FR]	4	4	5	5	0	18
[UNIV TOULOUSE 3 FR]	17	8	9	14	6	54
[UNIV TSINGHUA CN]	1	3	2	2	5	13
[UNIV UTRECHT NL]	2	2	5	5	5	19
[UNIV WASHINGTON US]	21	18	31	19	20	109
[UNIV XIAMEN CN]	6	6	3	11	7	33
[UPMC FR]	36	30	22	30	14	132
[USN MONTEREY US]	5	1	0	1	5	12
[WOODS HOLE US]	16	15	19	19	16	85
INC SYST APPLICAT US	4	1	1	4	1	11
UNIV S FLORIDA US	4	1	3	4	0	12
UNIV STATE FLORIDA US	3	4	7	7	9	30
[CNR IAMC IT]	0	1	4	3	2	10
[INST MONTEREY BAY AQUA US]	0	1	2	8	11	22
[NCAOR IN]	0	3	2	4	4	13
[PACIFIC NW NATL LAB US]	0	3	2	2	3	10
[QNLM CN]	0	1	8	22	34	65
[UNIV TEXAS AUSTIN US]	0	2	1	5	4	12
[UNIV WEST AU]	0	0	3	3	4	10

*See in this table detail of the number of publications for each thematic institute.

Figure

Evolution 2014-2018 of the number of publications for the Organizations with more than 50 publications from 2014 to 2018



8. Authors

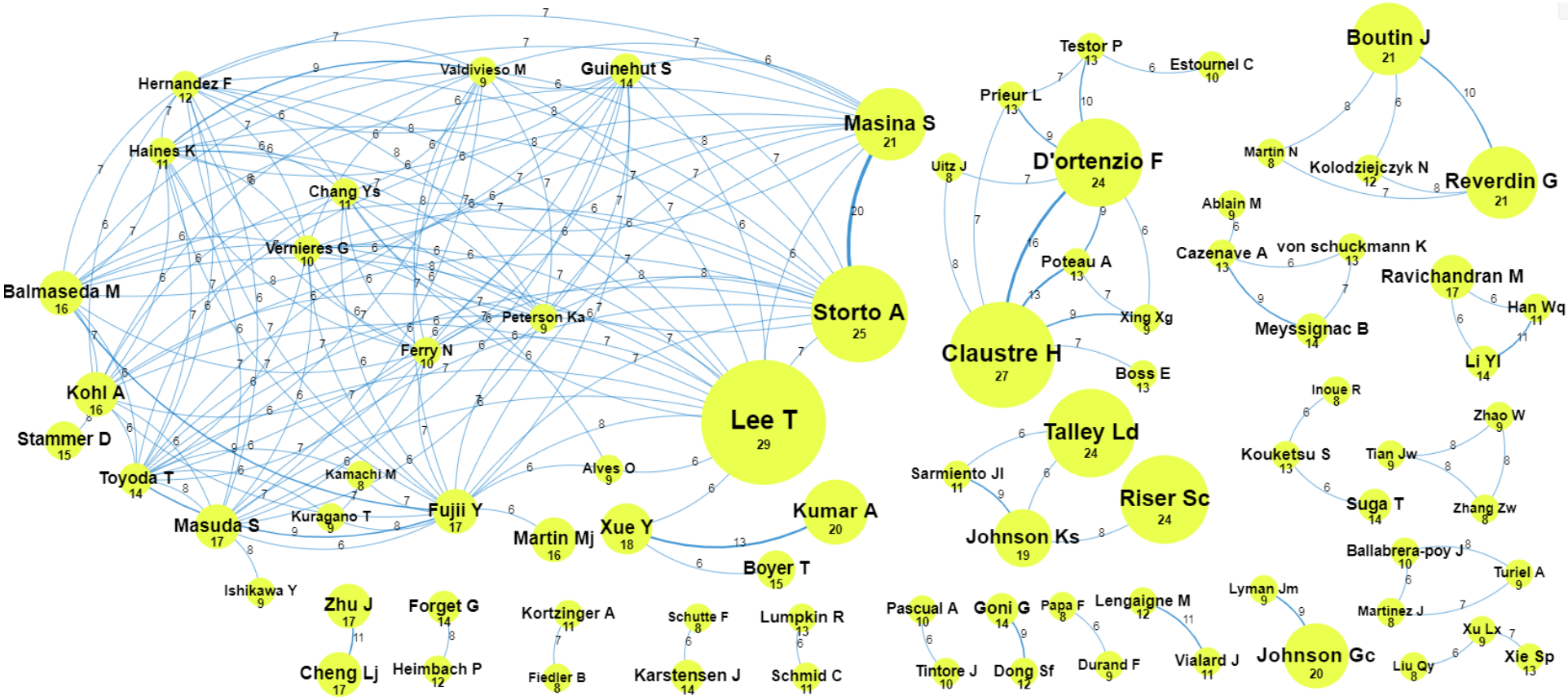
8.1. Top Authors

Author (at least 8 papers)	Nb Publi.
Lee T	29
Claustre H	27
Storto A	25
D'ortenzio F	24
Riser Sc	24
Talley Ld	24
Boutin J	21
Masina S	21
Reverdin G	21
Johnson Gc	20
Kumar A	20
Mazloff Mr	20
Johnson Ks	19
Xue Y	18
Cheng Lj	17
Fujii Y	17
Gille St	17
Masuda S	17
Ravichandran M	17
Yashayaev I	17
Zhu J	17
Balmaseda M	16
Kohl A	16
Martin Mj	16
Mcphaden Mj	16
Subrahmanyam B	16
Boyer T	15
Du Y	15
Qiu B	15
Stammer D	15
Brandt P	14
Forget G	14
Goni G	14
Guinehut S	14
Karstensen J	14
Li Yl	14
Meyssignac B	14
Suga T	14
Toyoda T	14
Wang Dx	14
Boss E	13
Cazenave A	13
Feng M	13
Josey Sa	13
Kouketsu S	13
Lumpkin R	13
Poteau A	13
Prieur L	13
Roemmich D	13
Testor P	13
von Schuckmann K	13
Wang F	13
Xie Sp	13
Dong Sf	12
Heimbach P	12
Hernandez F	12
Kolodziejczyk N	12
Lagerloef Gse	12
Lengaigne M	12
Oke Pr	12
Poulain Pm	12
Qu Td	12
Sallee Jb	12
Sprintall J	12
Yan Xh	12
Zhang Rh	12
Chang Ys	11
Cronin Mf	11
Gaillard F	11
Good Sa	11
Haines K	11
Han Wq	11
Kortzinger A	11
Pinardi N	11
Sarmiento Jl	11
Schmid C	11
Vialard J	11
Ballabrera-poy J	10
Cravatte S	10
Estournel C	10

Ferry N	10
Hu Dx	10
Pascual A	10
Ponte Rm	10
Qiao Fl	10
Smith Gc	10
Sutton Pjh	10
Tintore J	10
Vernieres G	10
Willis Jk	10
Ablain M	9
Alves O	9
Caniaux G	9
Chakraborty A	9
Durand F	9
Gnanaseelan C	9
Gordon Al	9
Ishikawa Y	9
Johns We	9
Korres G	9
Kuragano T	9
Le traon Py	9
Lee Cm	9
Lin Ii	9
Liu Y	9
Liu Zh	9
Loeb Ng	9
Lyman Jm	9
Maes C	9
Nagura M	9
Palmer Md	9
Peterson Ka	9
Rosati A	9
Santoleri R	9
Sugimoto S	9
Tian Jw	9
Turiel A	9
Valdivieso M	9
Wang J	9
Wang Wq	9
Xing Xg	9
Xu Lx	9
Xue Hj	9
Zhao W	9
Bindoff Nl	8
Dall'olmo G	8
Dong Cm	8
Fiedler B	8
Foltz Gr	8
Fukumori I	8
Gray Ar	8
Inoue R	8
Ishii M	8
Jayne Sr	8
Kamachi M	8
Liu C	8
Liu Qy	8
Lozier Ms	8
Madec G	8
Martin N	8
Martinez J	8
Meinen Cs	8
Menemenlis D	8
Moore Am	8
Morrow R	8
Nardelli Bb	8
Papa F	8
Rudnick Dl	8
Schutte F	8
Send U	8
Sharma R	8
Tanajura Cas	8
Thierry V	8
Trenberth Ke	8
Uitz J	8
Wang H	8
Wang X	8
Wanninkhof R	8
Weller Ra	8
Xu Fh	8
Zhang Zw	8
Zheng F	8

8.2. Network of main Authors

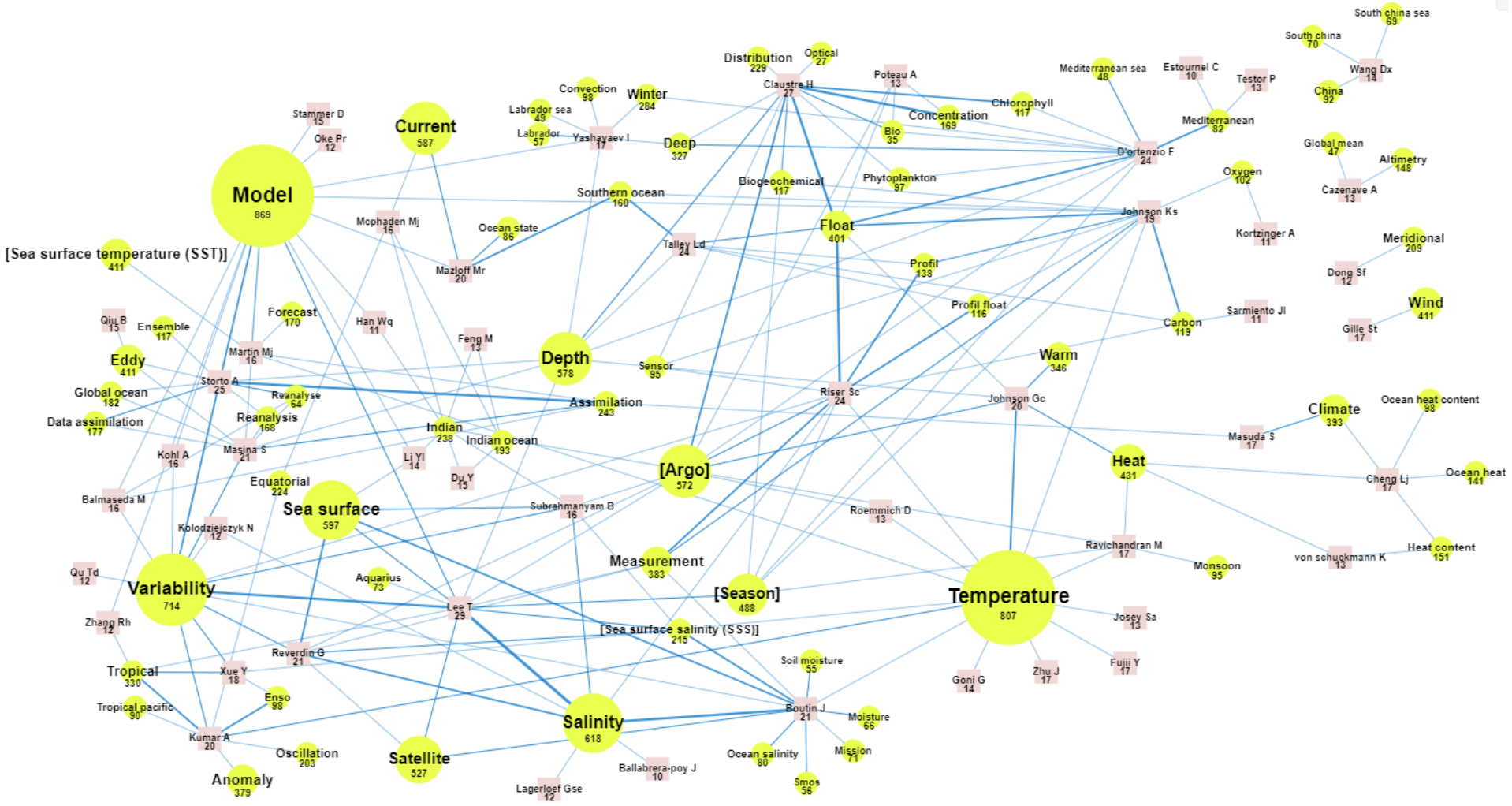
at least 8 papers and 6 co-publications



For example: Reverdin G wrote 21 papers. Boutin J wrote 21 papers with 10 co-publications with Reverdin G.

8.3. Network of main Authors/Concepts

at least 10 papers and 10 Co-Occurences



For example: “Sea surface” appears in 597 papers. Several authors (Lee T, Reverdin G, Li Yl, Boutin J, Subrahmanyam B) used it in more than 10 papers.

9. Appendix : DOI Query in Web Of Science database, limited to 2014-2018 publication Years

DO=(10.1016/j.dsr.2015.09.001 OR 10.5194/os-11-305-2015 OR 10.1007/s00376-014-0016-7 OR 10.1002/2015jc010967 OR 10.1007/s11430-014-5048-4 OR 10.1007/s10236-014-0792-8 OR 10.1007/s00382-015-2842-4 OR 10.1002/qj.2536 OR 10.1175/jcli-d-15-0097.1 OR 10.1002/2015gl063438 OR 10.1007/s00343-015-4352-y OR 10.1007/s13131-015-0664-1 OR 10.1007/s00382-013-1858-x OR 10.1007/s00382-014-2063-2 OR 10.1016/j.dsr2.2013.09.032 OR 10.1007/s13131-015-0630-y OR 10.1007/s00376-015-4121-z OR 10.1007/s11430-014-5024-z OR 10.1002/2015gl063902 OR 10.1002/2015gl065259 OR 10.1175/jpo-d-13-0190.1 OR 10.1002/2015jc011016 OR 10.1002/2015jc010790 OR 10.1007/s11707-014-0508-x OR 10.1175/jpo-d-15-0026.1 OR 10.1038/srep18506 OR 10.1175/jpo-d-14-0245.1 OR 10.1007/s00343-015-4120-z OR 10.1007/s13131-015-0663-2 OR 10.1007/s10236-015-0829-7 OR 10.1007/s00376-015-4240-6 OR 10.1007/s00376-015-5064-0 OR 10.1002/2015gl064220 OR 10.1007/s10872-015-0305-5 OR 10.1175/jcli-d-15-0273.1 OR 10.1002/2014jc010094 OR 10.1002/2013jc009632 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10.1002/2014gb004898 OR 10.5194/bg-12-2707-2015 OR 10.1007/s00382-015-2819-3 OR 10.5194/bg-12-845-2015 OR 10.1016/j.csr.2014.10.007 OR 10.1002/2015jc011115 OR 10.1002/2014jc010582 OR 10.1007/s00382-015-2672-4 OR 10.1016/j.csr.2015.05.001 OR 10.5194/bg-12-681-2015 OR 10.1016/j.jmarsys.2015.04.010 OR 10.1002/2014jc010693 OR 10.1002/2014jc010114 OR 10.1002/2014jc010357 OR 10.1175/jpo-d-14-0076.1 OR 10.1002/2015jc011213 OR 10.1175/jcli-d-14-00457.1 OR 10.1016/j.ocemod.2015.02.006 OR 10.1038/sdata.2015.54 OR 10.1038/sdata.2016.29 OR 10.1038/srep14346 OR 10.1038/srep16050 OR 10.1038/srep22010 OR 10.1038/srep24349 OR 10.1080/00288330.2014.924972 OR 10.1080/00288330.2014.992918 OR 10.1080/01431161.2016.1145362 OR 10.1080/01490419.2014.988833 OR 10.1080/07055900.2015.1087836 OR 10.1080/12269328.2015.1071208 OR 10.1080/1755876x.2015.1014663 OR 10.1080/1755876x.2015.1022041 OR 10.1080/1755876x.2015.1022055 OR 10.1080/1755876x.2015.1022067 OR 10.1080/1755876x.2015.1022080 OR 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OR 10.1016/j.ocemod.2014.12.009 OR 10.1175/jpo-d-14-0119.1 OR 10.1016/j.dsr.2014.11.016 OR 10.1016/j.dsr.2014.12.006 OR 10.1109/lgrs.2015.2393894 OR 10.1175/jtech-d-14-00162.1 OR 10.1016/j.ocemod.2014.11.004 OR 10.1002/2015gl063306 OR 10.1016/j.rse.2015.07.004 OR 10.1016/j.ocemod.2015.07.008 OR 10.1007/s00382-015-2736-5 OR 10.1007/s00382-014-2252-z OR 10.1016/j.ocemod.2015.09.011 OR 10.1175/jpo-d-14-0172.1 OR 10.1002/2015gb005251 OR 10.5194/os-11-425-2015 OR 10.1016/j.pocean.2015.04.005 OR 10.1007/s11802-015-2392-8 OR 10.1002/2014jc010203 OR 10.1002/qj.2613 OR 10.1109/lgrs.2014.2375196 OR 10.1080/01490419.2014.1002142 OR 10.1016/j.csr.2015.03.005 OR 10.1175/jcli-d-14-00351.1 OR 10.1002/2014jc010383 OR 10.5194/os-11-503-2015 OR 10.1002/2014jc010590 OR 10.5194/os-11-719-2015 OR 10.1080/00288330.2015.1008522 OR 10.1002/2015gb005180 OR 10.1093/icesjms/fsu239 OR 10.1080/1755876x.2015.1014646 OR 10.1016/j.asr.2014.06.041 OR 10.1016/j.dsr.2014.01.005 OR 10.1175/jtech-d-13-00100.1 OR 10.1002/2013gb004781 OR 10.1007/s00382-013-2039-7 OR 10.1002/2014jc009969 OR 10.1002/2014gl059940 OR 10.1002/2014gl061038 OR 10.1016/j.jmarsys.2013.09.011 OR 10.1175/jcli-d-13-00476.1 OR 10.1002/2014gl060799 OR 10.1016/j.dsr2.2014.05.002 OR 10.1016/j.csr.2013.11.009 OR 10.1002/2013jc008899 OR 10.1007/s10872-014-0237-5 OR 10.1002/2014jc009895 OR 10.5194/bg-11-3819-2014 OR 10.1002/2014gl061365 OR 10.1109/lgrs.2014.2301594 OR 10.1016/j.jcp.2013.10.058 OR 10.1002/2014jc009990 OR 10.1080/01431161.2014.926415 OR 10.1002/2013jc009591 OR 10.1175/jpo-d-13-030.1 OR 10.1002/2014gl061737 OR 10.5194/bg-11-2113-2014 OR 10.1016/j.dsr.2013.12.003 OR 10.1080/01490419.2013.859642 OR 10.1002/2014jc009965 OR 10.1002/2014jc010061 OR 10.1016/j.ocecoaman.2014.05.026 OR 10.1002/2014jc010020 OR 10.1007/s00382-013-1968-5 OR 10.1175/jcli-d-13-00373.1 OR 10.1016/j.dsr2.2014.07.008 OR 10.1002/2014jc010128 OR 10.1002/2013jc009704 OR 10.1016/j.pocean.2013.10.004 OR 10.1175/jpo-d-14-0071.1 OR 10.1002/2013jc009375 OR 10.1007/s10872-014-0238-4 OR 10.5194/bg-11-1683-2014 OR 10.1175/jcli-d-13-00227.1 OR 10.1002/2014jc010211 OR 10.1109/lgrs.2013.2277391 OR 10.1002/2014jc009961 OR 10.1016/j.jmarsys.2014.08.004 OR 10.1002/2013jc009620 OR 10.5194/bg-11-75-2014 OR 10.1007/s10712-013-9244-0 OR 10.1002/2014jc010107 OR 10.1175/jtech-d-13-00158.1 OR 10.1175/jpo-d-12-0192.1 OR 10.1016/j.dsr.2014.01.003 OR 10.1002/2014jc010049 OR 10.1007/s00382-014-2109-5 OR 10.1016/j.dsr.2014.05.008 OR 10.1080/01431161.2014.916448 OR 10.1175/jpo-d-13-0104.1 OR 10.1002/2013jc009657 OR 10.1002/2013jc009302 OR 10.1002/qj.2199 OR 10.1175/jcli-d-13-00518.1 OR 10.1002/2014jc009836 OR 10.1175/jcli-d-12-00234.1 OR 10.1007/s13131-014-0475-9 OR 10.1007/s11430-014-4893-5 OR 10.1175/jpo-d-13-096.1 OR 10.1002/2014jc010046 OR 10.1002/2014jc010189 OR 10.1016/j.dsr.2013.09.008 OR 10.1007/s10236-014-0720-y OR 10.1002/2014jc009861 OR 10.1002/2014jc009994 OR 10.1016/j.dsr.2014.02.007 OR 10.1002/2014jc010318 OR 10.1002/2014gl061773 OR 10.5194/os-10-731-2014 OR 10.5194/bg-11-4077-2014 OR

10.1002/2013gl059004 OR 10.1002/2014jc010120 OR 10.1175/jpo-d-14-0041.1 OR 10.1002/qj.2117 OR 10.1016/j.ocemod.2014.09.005 OR 10.1002/2014jc010137 OR 10.1002/2013jc009438 OR 10.1002/joc.3805 OR 10.1002/2014jc010021 OR 10.1016/j.dsr.2014.04.015 OR 10.1126/science.1256117 OR 10.1016/j.pocean.2013.10.005 OR 10.1175/jcli-d-13-00641.1 OR 10.1007/s11434-013-0101-9 OR 10.1002/2014gb004886 OR 10.1002/2013jc009187 OR 10.1002/2014gl059835 OR 10.1080/01431161.2014.926423 OR 10.1007/s00382-014-2131-7 OR 10.5194/os-10-633-2014 OR 10.5194/bg-11-5707-2014 OR 10.1175/jtech-d-14-00042.1 OR 10.1002/2013jc009470 OR 10.1175/jcli-d-14-00195.1 OR 10.1175/jpo-d-13-0114.1 OR 10.1175/jpo-d-13-0265.1 OR 10.1002/2013jc009575 OR 10.1002/2013jc009543 OR 10.1038/ngeo2101 OR 10.1016/j.ocemod.2013.12.007 OR 10.1002/2014jc010101 OR 10.1002/2014jc009834 OR 10.1002/2013ms000255 OR 10.1134/s000143701401010x OR 10.1134/s0001437014030138 OR 10.1175/jpo-d-13-0192.1 OR 10.1002/2014gl059624 OR 10.1016/j.pocean.2014.05.001 OR 10.1016/j.jmarsys.2014.05.019 OR 10.1175/jcli-d-13-00294.1 OR 10.1016/j.rse.2013.09.018 OR 10.1002/2013jc009357 OR 10.1002/2014jc009937 OR 10.1175/jpo-d-13-064.1 OR 10.1002/2014jc010150 OR 10.1002/2014jc010006 OR 10.1002/2014jc009906 OR 10.5194/os-10-547-2014 OR 10.1186/2197-4284-1-11 OR 10.1002/2013jc009388 OR 10.1002/2014gl061606 OR 10.1080/07055900.2014.922240 OR 10.1175/jpo-d-13-0222.1 OR 10.1002/2013jc009610 OR 10.1007/s10236-014-0704-y OR 10.1016/j.rse.2013.10.005 OR 10.1002/2014jc010256 OR 10.1002/2013jc009535 OR 10.1007/s00382-014-2339-6 OR 10.1016/j.ocemod.2014.07.002 OR 10.1002/2013jc009779 OR 10.1016/j.dsr.2014.06.012 OR 10.1175/jpo-d-13-0186.1 OR 10.1007/s10872-014-0225-9 OR 10.1134/s0001433814060097 OR 10.1002/2014gl059589 OR 10.1002/2014jc009864 OR 10.1175/jcli-d-12-00571.1 OR 10.1175/jpo-d-13-0189.1 OR 10.1007/s00382-014-2136-2 OR 10.1038/nclimate2409 OR 10.1002/2014gb004813 OR 10.1007/s10712-013-9274-7 OR 10.1021/es403686v OR 10.1175/jcli-d-12-00131.1 OR 10.1002/2013rg000434 OR 10.1016/j.ocemod.2014.03.001 OR 10.1175/jpo-d-13-0217.1 OR 10.1002/2014gl059971 OR 10.1016/j.pocean.2013.11.010 OR 10.1002/2014jc009966 OR 10.1175/jcli-d-13-00412.1 OR 10.1002/2014jc010040 OR 10.1002/2014gl061160 OR 10.1016/j.jmarsys.2014.03.013 OR 10.1002/2014jc009853 OR 10.1016/j.jmarsys.2013.10.002 OR 10.1007/s00382-013-1721-0 OR 10.1175/jcli-d-13-00258.1 OR 10.1007/s00382-014-2059-y OR 10.1007/s10872-013-0211-7 OR 10.1134/s1028334x14090177 OR 10.1002/2014jc010313 OR 10.1016/j.dsr2.2013.12.005 OR 10.1002/2014rs005505 OR 10.1002/qj.2281 OR 10.1016/j.ocemod.2014.09.009 OR 10.1002/2014jc010100 OR 10.1016/j.cub.2014.07.046 OR 10.1007/s11430-013-4708-0 OR 10.1175/jpo-d-13-0238.1 OR 10.1016/j.dsr2.2013.01.037 OR 10.1002/2014jc009956 OR 10.1007/s13131-014-0472-z OR 10.1002/2014jc010195 OR 10.1175/jpo-d-13-0185.1 OR 10.1002/2014gl061281 OR 10.1002/2014jc010221 OR 10.1002/2013jc009710 OR 10.1007/s13131-014-0558-7 OR 10.1038/nclimate2387 OR 10.1175/jcli-d-13-00438.1 OR 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10.7850/jkso.2015.20.1.1 OR 10.7776/ASK.2015.34.1.001 OR 10.5670/oceanog.2012.76 OR 10.5670/oceanog.2011.32 OR 10.5670/oceanog.2011.31 OR 10.5670/oceanog.2011.04 OR 10.5670/oceanog.2010.03 OR 10.5270/OceanObs09.pp.33 OR 10.5270/OceanObs09.pp.03 OR 10.5270/OceanObs09.cwp.86 OR 10.5270/OceanObs09.cwp.84 OR 10.5194/gmd-6-591-2013 OR 10.1016/j.ocemod.2013.03.008 OR 10.1175/jtech-d-12-00073.1 OR 10.1038/ngeo1836 OR 10.1002/jgrc.20416 OR 10.1002/gbc.20058 OR 10.1175/jpo-d-12-01.1 OR 10.1002/2013jc008983 OR 10.1002/jgrc.20156 OR 10.1175/jpo-d-12-0136.1 OR 10.1109/lgrs.2012.2212176 OR 10.1080/2150704x.2013.842284 OR 10.1016/j.ocemod.2013.09.003 OR 10.1016/j.dsr2.2013.06.012 OR 10.5194/os-9-411-2013 OR 10.1002/grl.50548 OR 10.1175/jpo-d-12-0133.1 OR 10.1175/jpo-d-13-099.1 OR 10.1002/grl.50394 OR 10.1016/j.rse.2013.03.007 OR 10.1080/19475721.2013.793741 OR 10.1109/lgrs.2012.2207943 OR 10.1109/tgrs.2013.2279606 OR 10.1016/j.ocemod.2013.05.003 OR 10.1016/j.jmarsys.2011.09.017 OR 10.1038/scientificamerican0213-50 OR 10.1175/jcli-d-12-00762.1 OR 10.1002/2013gl058304 OR 10.1002/2013gl057797 OR 10.5194/bg-10-4973-2013 OR 10.1215/21573689-2152611 OR 10.1002/jgrc.20157 OR 10.1016/j.ocemod.2013.06.005 OR 10.1002/jgrc.20250 OR 10.1002/jgrc.20122 OR 10.5194/os-9-301-2013 OR 10.1007/s00382-012-1362-8 OR 10.1002/jgrc.20381 OR 10.1002/2013jc008973 OR 10.1002/jgrc.20370 OR 10.1016/j.asr.2013.05.005 OR 10.1007/s13131-013-0335-z OR 10.1002/jgrc.20177 OR 10.1016/j.dynatmoce.2013.03.001 OR 10.1002/jgrc.20411 OR 10.5194/os-9-1057-2013 OR 10.1109/lgrs.2013.2271512 OR 10.1002/grl.50606 OR 10.1002/qj.2071 OR 10.1175/jpo-d-13-081.1 OR 10.1109/tgrs.2012.2199122 OR 10.1215/21573689-2071927 OR 10.1002/grl.50600 OR 10.1002/jgrc.20399 OR 10.1016/j.pocean.2013.06.017 OR 10.1029/2012jc008317 OR 10.1002/jgrc.20078 OR 10.1007/s10872-013-0172-x OR 10.1016/j.dsr.2013.05.007 OR 10.1002/grl.50483 OR 10.1175/jcli-d-12-00464.1 OR 10.1007/s00382-012-1541-7 OR 10.1002/grl.50215 OR 10.1002/grl.50274 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10.4028/www.scientific.net/AMR.250-253.2782 OR 10.3989/scimar.03616.19G OR 10.3390/rs8040315 OR 10.3389/fmars.2016.00037 OR 10.3354/meps07549 OR "10.3319/tao.2009.06.08.04(iwnop)" OR 10.3137/oc312.2009 OR 10.3137/oc308.2009 OR 10.3103/S1068373910030076 OR 10.1515/rnam-2012-0015 OR 10.1515/rjnamm.2011.013 OR 10.1515/rjnamm.2011.012 OR 10.1371/journal.pone.0060985 OR 10.1371/journal.pone.0023063 OR 10.1360/982004-757 OR 10.1357/002224009792006151 OR 10.1256/wea.247.05 OR 10.1256/wea.56.05 OR 10.1175/WAF-D-13-00101.1 OR 10.1175/MWR-D-15-0073.1 OR 10.1175/MWR-D-14-00336.1 OR 10.1175/mwr-d-11-00141.1 OR 10.1175/mwr3466.1 OR 10.1175/mwr3310.1 OR 10.1175/jtecho539.1 OR 10.1175/JTECH-D-15-0194.1 OR 10.1175/JTECH-D-15-0193.1 OR 10.1175/JTECH-D-15-0192.1 OR 10.1175/JTECH-D-15-0093.1 OR 10.1175/JTECH-D-15-0068.1 OR 10.1175/jtech-d-12-00013.1 OR 10.1175/jtech-d-11-00129.1 OR 10.1175/jtech-d-11-00099.1 OR 10.1175/jtech-d-11-00055.1 OR 10.1175/jtech-d-11-00044.1 OR 10.1175/jtech-d-11-00018.1 OR 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10.1029/2010jc006910 OR 10.1029/2010JC006899 OR 10.1029/2010jc006877 OR 10.1029/2010jc006872 OR 10.1029/2010jc006864 OR 10.1029/2010jc006862 OR 10.1029/2010jc006836 OR 10.1029/2010jc006832 OR 10.1029/2010jc006727 OR 10.1029/2010jc006716 OR 10.1029/2010jc006708 OR 10.1029/2010jc006683 OR 10.1029/2010jc006657 OR 10.1029/2010jc006634 OR 10.1029/2010jc006603 OR 10.1029/2010jc006565 OR 10.1029/2010jc006536 OR 10.1029/2010jc006505 OR 10.1029/2010jc006423 OR 10.1029/2010jc006386 OR 10.1029/2010jc006373 OR 10.1029/2010jc006354 OR 10.1029/2010jc006283 OR 10.1029/2010jc006260 OR 10.1029/2010gl046574 OR 10.1029/2010gl046537 OR 10.1029/2010gl046267 OR 10.1029/2010gl045574 OR 10.1029/2010gl044222 OR 10.1029/2010gl044174 OR 10.1029/2010gl043708 OR 10.1029/2010gl042716 OR 10.1029/2010gl042372 OR 10.1029/2010gb004018 OR 10.1029/2008jc005124 OR 10.1029/2008jc005110 OR 10.1029/2008jc005108 OR 10.1029/2008jc005098 OR 10.1029/2008JC004974 OR 10.1029/2008jc004970 OR 10.1029/2008jc004958 OR 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10.1016/j.rse.2016.01.019 OR 10.1016/j.rse.2015.12.006 OR 10.1016/j.rse.2011.12.020 OR 10.1016/j.rse.2011.09.020 OR 10.1016/j.rse.2010.12.004 OR 10.1016/j.rse.2010.03.006 OR 10.1016/j.rse.2007.06.023 OR 10.1016/j.proenv.2010.09.022 OR 10.1016/j.pocean.2015.12.013 OR 10.1016/j.pocean.2015.12.012 OR 10.1016/j.pocean.2012.06.006 OR 10.1016/j.pocean.2012.06.005 OR 10.1016/j.pocean.2012.05.006 OR 10.1016/j.pocean.2011.09.004 OR 10.1016/j.pocean.2011.07.001 OR 10.1016/j.pocean.2011.05.005 OR 10.1016/j.pocean.2011.05.003 OR 10.1016/j.pocean.2011.05.001 OR 10.1016/j.pocean.2011.02.010 OR 10.1016/j.pocean.2009.03.004 OR 10.1016/j.pocean.2008.07.001 OR 10.1016/j.pocean.2008.01.003 OR 10.1016/j.pocean.2007.08.017 OR 10.1016/j.pocean.2007.08.016 OR 10.1016/j.pocean.2007.08.010 OR 10.1016/j.pocean.2007.08.007 OR 10.1016/j.pocean.2007.08.006 OR 10.1016/j.pocean.2006.09.012 OR 10.1016/j.pocean.2005.07.001 OR 10.1016/j.pocean.2004.11.002 OR 10.1016/j.pocean.2004.07.002 OR 10.1016/j.pocean.2003.08.013 OR 10.1016/j.physleta.2012.02.027 OR 10.1016/j.physleta.2009.07.023 OR 10.1016/j.physd.2006.09.040 OR 10.1016/j.ocemod.2016.05.007 OR 10.1016/j.ocemod.2015.12.010 OR 10.1016/j.ocemod.2015.11.012 OR 10.1016/j.ocemod.2012.02.005 OR 10.1016/j.ocemod.2012.02.001 OR 10.1016/j.ocemod.2011.12.006 OR 10.1016/j.ocemod.2011.11.007 OR 10.1016/j.ocemod.2011.07.005 OR 10.1016/j.ocemod.2011.06.001 OR 10.1016/j.ocemod.2011.04.010 OR 10.1016/j.ocemod.2011.04.003 OR 10.1016/j.ocemod.2011.04.001 OR 10.1016/j.ocemod.2010.10.005 OR 10.1016/j.ocemod.2010.09.002 OR 10.1016/j.ocemod.2010.07.007 OR 10.1016/j.ocemod.2010.05.006 OR 10.1016/j.ocemod.2010.03.002 OR 10.1016/j.ocemod.2008.12.005 OR 10.1016/j.ocemod.2008.03.002 OR 10.1016/j.ocemod.2008.01.004 OR 10.1016/j.ocemod.2007.11.002 OR 10.1016/j.ocemod.2007.06.005 OR 10.1016/j.ocemod.2007.06.002 OR 10.1016/j.ocemod.2007.06.001 OR 10.1016/j.ocemod.2005.12.005 OR 10.1016/j.ocemod.2005.09.002 OR 10.1016/j.ocemod.2005.07.001 OR 10.1016/j.mio.2016.05.001 OR 10.1016/j.marpolbul.2011.06.026 OR 10.1016/j.marpolbul.2010.06.042 OR 10.1016/j.marenvres.2011.02.008 OR 10.1016/j.jog.2012.04.001 OR 10.1016/j.jog.2012.03.005 OR 10.1016/j.jog.2011.04.004 OR 10.1016/j.jog.2005.10.011 OR 10.1016/j.joes.2015.12.007 OR 10.1016/j.jmarsys.2016.02.011 OR 10.1016/j.jmarsys.2015.10.001 OR 10.1016/j.jmarsys.2012.05.009 OR 10.1016/j.jmarsys.2012.01.003 OR 10.1016/j.jmarsys.2011.01.002 OR 10.1016/j.jmarsys.2009.11.003 OR 10.1016/j.jmarsys.2009.02.017 OR 10.1016/j.jmarsys.2009.01.022 OR 10.1016/j.jmarsys.2008.11.017 OR 10.1016/j.jmarsys.2007.12.014 OR 10.1016/j.jmarsys.2007.09.001 OR 10.1016/j.jmarsys.2005.11.019 OR 10.1016/j.jmarsys.2005.09.016 OR 10.1016/j.jmarsys.2005.04.012 OR 10.1016/j.jmarsys.2005.01.003 OR 10.1016/j.jmarsys.2004.09.002 OR 10.1016/j.jmarsys.2004.03.001 OR 10.1016/j.jmarsys.2003.11.022 OR 10.1016/j.jenvrad.2011.12.001 OR 10.1016/j.jag.2012.01.006 OR 10.1016/j.jag.2011.08.015 OR 10.1016/j.gloplacha.2010.10.011 OR 10.1016/j.gloplacha.2010.10.008 OR 10.1016/j.gloplacha.2010.09.005 OR 10.1016/j.gloplacha.2010.06.002 OR 10.1016/j.gloplacha.2008.10.004 OR 10.1016/j.gloplacha.2006.08.001 OR 10.1016/j.gca.2010.05.024 OR 10.1016/j.eswa.2007.06.007 OR 10.1016/j.dynatmoce.2012.06.002 OR 10.1016/j.dynatmoce.2011.05.002 OR 10.1016/j.dynatmoce.2011.03.006 OR 10.1016/j.dynatmoce.2011.03.002 OR 10.1016/j.dynatmoce.2011.02.001 OR 10.1016/j.dynatmoce.2010.07.002 OR 10.1016/j.dynatmoce.2010.02.003 OR 10.1016/j.dynatmoce.2010.01.001 OR 10.1016/j.dynatmoce.2009.12.004 OR 10.1016/j.dynatmoce.2009.12.001 OR 10.1016/j.dynatmoce.2009.04.002 OR 10.1016/j.dsr.2016.05.009 OR 10.1016/j.dsr.2016.05.007 OR 10.1016/j.dsr.2016.04.012 OR 10.1029/2008gl036642 OR 10.1029/2008gl036162 OR 10.1029/2008gl036091 OR 10.1029/2008gl036010 OR 10.1029/2008gl035753 OR 10.1029/2008gl035733 OR 10.1029/2008gl035561 OR 10.1029/2008gl035524 OR 10.1029/2008gl035238 OR 10.1029/2008gl035115 OR 10.1029/2008gl035040 OR 10.1029/2008gl033267 OR 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10.1029/2007gl029828 OR 10.1029/2006jc004051 OR 10.1029/2006jc004005 OR 10.1029/2006jc003954 OR 10.1029/2006jc003953 OR 10.1029/2006jc003869 OR 10.1029/2006jc003825 OR 10.1029/2006jc003724 OR 10.1029/2006jc003698 OR 10.1029/2006jc003685 OR 10.1029/2006jc003651 OR 10.1029/2006jc003578 OR 10.1029/2006gl028715 OR 10.1029/2006gl027691 OR 10.1029/2006gl027033 OR 10.1029/2006gl026913 OR 10.1029/2006gl026613 OR 10.1029/2006gl026612 OR 10.1029/2006gl026463 OR 10.1029/2006gl026278 OR 10.1029/2006gl026070 OR 10.1029/2006gl025997 OR 10.1029/2005jc003402 OR 10.1029/2005jc003172 OR 10.1029/2005jc003128 OR 10.1029/2005jc002909 OR 10.1029/2005gl025631 OR 10.1029/2005gl025552 OR 10.1029/2005gl025551 OR 10.1029/2005gl025368 OR 10.1029/2005gl025122 OR 10.1029/2005gl024974 OR 10.1029/2005gl024772 OR 10.1029/2005gl024430 OR 10.1029/2005gl023948 OR 10.1029/2005gl023577 OR 10.1029/2005gl023258 OR 10.1029/2005gl023145 OR 10.1029/2005gl022972 OR 10.1029/2005gl022864 OR 10.1029/2004jc002861 OR 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OR 10.1016/j.csr.2012.07.011 OR 10.1016/j.csr.2012.06.001 OR 10.1016/j.csr.2011.10.010 OR 10.1016/j.csr.2011.03.013 OR 10.1016/j.csr.2009.11.015 OR 10.1016/j.csr.2009.11.013 OR 10.1016/j.csr.2008.02.020 OR 10.1016/j.csr.2007.11.008 OR 10.1016/j.crte.2009.12.010 OR 10.1016/j.asr.2016.02.024 OR 10.1016/j.asr.2012.05.021 OR 10.1007/s40641-016-0037-7 OR 10.1007/s13143-011-0034-7 OR 10.1007/s13131-016-0818-9 OR 10.1007/s13131-016-0795-z OR 10.1007/s13131-012-0247-3 OR 10.1007/s13131-012-0175-2 OR 10.1007/s13131-011-0117-4 OR 10.1007/s13131-011-0086-7 OR 10.1007/s12601-010-0014-3 OR 10.1007/s12524-011-0188-x OR 10.1007/s11852-012-0201-8 OR 10.1007/s11802-016-2817-z OR 10.1007/s11707-016-0561-8 OR 10.1007/s11625-008-0042-4 OR 10.1007/s11434-012-5232-x OR 10.1007/s11434-012-5171-6 OR 10.1007/s11434-012-5134-y OR 10.1007/s11430-015-5187-2 OR 10.1007/s11430-009-0196-7 OR 10.1007/s11430-006-1212-9 OR 10.1007/s11200-010-0067-x OR 10.1007/s11110-011-9090-x OR 10.1007/s11069-011-9837-1 OR 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10.1016/j.dsr.2011.02.008 OR 10.1016/j.dsr.2010.12.002 OR 10.1016/j.dsr.2010.11.002 OR 10.1016/j.dsr.2010.07.008 OR 10.1016/j.dsr.2010.05.010 OR 10.1016/j.dsr.2010.05.001 OR 10.1016/j.dsr.2010.03.006 OR 10.1016/j.dsr.2010.03.001 OR 10.1016/j.dsr.2010.01.003 OR 10.1016/j.dsr.2009.12.012 OR 10.1016/j.dsr.2009.11.010 OR 10.1016/j.dsr.2009.11.006 OR 10.1016/j.dsr.2009.11.005 OR 10.1016/j.dsr.2009.10.003 OR 10.1016/j.dsr.2009.08.006 OR 10.1016/j.dsr.2009.07.001 OR 10.1016/j.dsr.2009.06.002 OR 10.1016/j.dsr.2009.05.017 OR 10.1016/j.dsr.2009.05.010 OR 10.1016/j.dsr.2009.03.005 OR 10.1016/j.dsr.2009.03.002 OR 10.1016/j.dsr.2009.02.005 OR 10.1016/j.dsr.2008.09.008 OR 10.1016/j.dsr.2008.05.017 OR 10.1016/j.dsr.2008.04.006 OR 10.1016/j.dsr.2008.04.003 OR 10.1016/j.dsr.2008.02.009 OR 10.1016/j.dsr.2007.05.011 OR 10.1016/j.dsr.2007.05.002 OR 10.1016/j.dsr.2007.04.013 OR 10.1016/j.dsr.2007.03.011 OR 10.1016/j.dsr.2006.01.012 OR 10.1016/j.dsr.2004.12.007 OR 10.1016/j.dsr2.2012.04.013 OR 10.1016/j.dsr2.2012.04.012 OR 10.1016/j.dsr2.2011.08.012 OR 10.1016/j.dsr2.2011.08.005 OR 10.1016/j.dsr2.2011.07.003 OR 10.1016/j.dsr2.2011.07.001 OR 10.1016/j.dsr2.2011.06.007 OR 10.1016/j.dsr2.2011.06.002 OR 10.1016/j.dsr2.2011.05.022 OR 10.1016/j.dsr2.2011.01.003 OR 10.1016/j.dsr2.2010.10.067 OR 10.1016/j.dsr2.2010.10.063 OR 10.1016/j.dsr2.2010.10.061 OR 10.1016/j.dsr2.2010.10.050 OR 10.1016/j.dsr2.2010.10.035 OR 10.1016/j.dsr2.2010.10.002 OR 10.1016/j.dsr2.2010.10.001 OR 10.1016/j.dsr2.2010.06.006 OR 10.1016/j.dsr2.2010.06.004 OR 10.1016/j.dsr2.2010.06.002 OR 10.1016/j.dsr2.2010.03.005 OR 10.1175/MWR3089.1 OR 10.1175/MWR3024.1 OR 10.1175/JTECH-1686.1 OR 10.1175/JTECH1785.1 OR 10.1175/JTECH1701.1 OR 10.1175/JPO2957.1 OR 10.1175/JPO2918.1 OR 10.1175/JPO2869.1 OR 10.1175/JPO2702.1 OR 10.1175/JCLI4148.1 OR 10.1175/JCLI3812.1 OR 10.1175/JCLI3712.1 OR 10.1175/BAMS-87-6-shein OR 10.1175/2009JTECHO711.1 OR 10.1175/2009JTECHO670.1 OR 10.1175/2009JPO4287.1 OR 10.1175/2009JPO4285.1 OR 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10.1002/2016jc011693 OR 10.1002/2015jc011542 OR 10.1002/2016gl069605 OR 10.1002/2016jc011805 OR 10.1002/2016gl069789 OR 10.1002/2016jc011889 OR 10.1038/ngeo2749 OR 10.1016/j.rse.2016.02.044 OR 10.1016/j.rse.2016.02.053 OR 10.1002/2015jc011134 OR 10.1002/joc.4654 OR 10.1007/s10872-016-0357-1 OR 10.1016/j.ocemod.2016.06.011 OR 10.1016/j.rse.2016.02.005 OR 10.1007/s00382-016-2984-z OR 10.1002/joc.4697 OR 10.1007/s10872-015-0342-0 OR 10.1016/j.ocemod.2015.07.020 OR 10.1175/JCLI-D-15-0519.1 OR 10.1016/j.rse.2015.12.032 OR 10.1016/j.rse.2016.02.061 OR 10.1016/j.rse.2016.02.004 OR 10.1016/j.rse.2016.02.049 OR 10.1016/j.rse.2016.02.038 OR 10.1016/j.rse.2015.12.052 OR 10.1175/JCLI-D-15-0730.1 OR 10.1016/j.rse.2016.02.006 OR 10.1016/j.rse.2016.02.051 OR 10.1038/srep30041 OR 10.1016/j.oceaneng.2016.07.062 OR 10.1364/ao.52.000795 OR 10.1357/002224016819257326 OR 10.1357/002224016819257344 OR 10.5670/oceanog.2014.20 OR 10.1002/2015gb005276 OR 10.1016/j.jmarsys.2015.06.004 OR 10.1002/2015gb005349 OR 10.5194/essd-7-261-2015 OR 10.5270/OceanObs09.pp.18 OR 10.1029/2008gb003206 OR 10.1038/ngeo2818 OR 10.1175/JTECH-D-16-0095.1 OR 10.1175/MWR-D-16-0080.1 OR 10.1175/JCLI-D-15-0782.1 OR 10.1175/JPO-D-16-0107.1 OR 10.1175/MWR-D-15-0361.1 OR 10.1175/JPO-D-15-0202.1 OR 10.1175/JCLI-D-16-0339.1 OR 10.1175/JCLI-D-15-0850.1 OR 10.1175/JCLI-D-15-0630.1 OR 10.1175/MWR-D-15-0350.1 OR 10.1175/JTECH-D-15-0214.1 OR 10.1002/2016gl070567 OR 10.1002/2016gb005383 OR 10.1002/2016jc011992 OR 10.1002/2016jc011773 OR 10.1002/2016jc011698 OR 10.1002/2016jc011793 OR 10.1002/2016jc011674 OR 10.1002/2015jc011440 OR 10.1002/2016jc011818 OR 10.1002/2015jc011607 OR 10.1002/2016gl070220 OR 10.1002/2016jc011920 OR 10.1002/2016gl069973 OR 10.1002/2016jc011680 OR 10.1002/2016jc011799 OR 10.1080/1755876x.2015.1115634 OR 10.1080/1755876x.2015.1117764 OR 10.1016/j.jmarsys.2016.08.004 OR 10.1016/j.dsr2.2016.03.009 OR 10.1016/j.pocean.2016.09.001 OR 10.1016/j.ocemod.2016.09.003 OR 10.1016/j.pocean.2016.07.009 OR 10.1016/j.margeo.2015.12.008 OR 10.1016/j.pocean.2016.06.005 OR 10.1038/srep31310 OR 10.1007/s10236-016-0987-2 OR 10.1038/nclimate2946 OR 10.1371/journal.pone.0145996 OR 10.1002/asl.596 OR 10.1134/s0001433816040083 OR 10.1007/s13131-015-0741-5 OR 10.5194/os-12-1003-2016 OR 10.1007/s00376-015-5111-x OR 10.1007/s00343-016-5092-3 OR 10.1007/s00343-016-5147-5 OR 10.1134/s0001437016030073 OR 10.1134/s000143701603022x OR 10.1175/JCLI-D-16-0112.1 OR 10.1175/BAMS-D-15-00032.1 OR 10.1002/2015jc011021 OR 10.1175/JCLI-D-16-0238.1 OR 10.1175/JTECH-D-15-0168.1 OR 10.1007/s00343-016-5125-y OR 10.1175/JCLI-D-16-0396.1 OR 10.3390/s16122124 OR 10.1126/sciadv.1601207 OR 10.5194/os-13-1-2017 OR 10.1029/2010JC006536 OR 10.1029/2010JC006565 OR 10.1029/2010JC006603 OR 10.1029/2010JC006634 OR 10.1029/2010JC006657 OR 10.1029/2010JC006708 OR 10.1029/2010JC006716 OR 10.1029/2010JC006727 OR 10.1029/2010JC006832 OR 10.1029/2010JC006836 OR 10.1029/2010JC006862 OR 10.1029/2010JC006864 OR 10.1029/2010JC006872 OR 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10.1016/j.pocean.2016.12.011 OR 10.1175/jpo-d-16-0217.1 OR 10.1007/s10872-016-0398-5 OR 10.1016/j.dynatmoce.2017.02.002 OR 10.1002/2016GL071661 OR 10.1002/2016JC012437 OR 10.1080/16742834.2017.1239506 OR 10.1007/s13131-017-0987-1 OR 10.5194/os-13-123-2017 OR 10.1002/lom3.10144 OR 10.1002/2016GL072163 OR 10.1002/2016GL071668 OR 10.1007/s00382-016-3182-8 OR 10.1007/s00382-016-3190-8 OR 10.1002/2016GL069039 OR 10.1002/2016JC011662 OR 10.1134/s0001433816090036 OR 10.1175/jpo-d-16-0152.1 OR 10.1016/j.jmarsys.2016.03.002 OR 10.1134/s0001433816090073 OR 10.1002/2016jc012144 OR 10.1080/07055900.2016.1147416 OR 10.1002/2016jc011719 OR 10.1175/JPO-D-14-0076.1 OR 10.1175/JTECH-D-13-00100.1 OR 10.1175/JTECH-D-13-00110.1 OR 10.1175/JTECH-D-13-00142.1 OR 10.1175/JTECH-D-13-00197.1 OR 10.1175/JTECH-D-13-00220.1 OR 10.1175/JTECH-D-13-00241.1 OR 10.1175/JTECH-D-14-00011.1 OR 10.1175/JTECH-D-14-00025.1 OR 10.1175/JTECH-D-14-00042.1 OR 10.1175/JTECH-D-14-00079.1 OR 10.1175/JTECH-D-14-00162.1 OR 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10.1016/j.dynatmoce.2015.12.003 OR 10.1002/2015jc011290 OR 10.1016/j.dsr2.2015.02.002 OR 10.1002/2016gl070565 OR 10.1002/2016jc011935 OR 10.5194/bg-13-5633-2016 OR 10.1109/TGRS.2016.2601486 OR 10.1007/s00704-015-1574-z OR 10.1590/S1679-87592016119580640 3 OR 10.1002/2014JC010590 OR 10.1002/2014JC010595 OR 10.1002/2014JC010609 OR 10.1002/2014JC010647 OR 10.1002/2014JC010649 OR 10.1002/2014JC010650 OR 10.1002/2014JC010662 OR 10.1002/2014JC010693 OR 10.1002/2014JD022411 OR 10.1002/2014RG000478 OR 10.1002/2014RS005505 OR 10.1002/2015GB005141 OR 10.1002/2015GB005180 OR 10.1002/2015GB005214 OR 10.1002/2015GB005251 OR 10.1002/2015GB005276 OR 10.1002/2015GB005314 OR 10.1002/2015GB005349 OR 10.1002/2015GL063120 OR 10.1002/2015GL063222 OR 10.1002/2015GL063306 OR 10.1002/2015GL063438 OR 10.1002/2015GL063827 OR 10.1002/2015GL063902 OR 10.1364/OE.21.023997 OR 10.1109/LGRS.2014.2301594 OR 10.1109/LGRS.2014.2375196 OR 10.1109/LGRS.2015.2393894 OR 10.1109/LGRS.2016.2619980 OR 10.1109/TGRS.2009.2037899 OR 10.1109/TGRS.2011.2167340 OR 10.1109/TGRS.2012.2184547 OR 10.1109/TGRS.2012.2199122 OR 10.1109/TRANSDUCERS.2017.7993975 OR 10.1134/S0001433817020025 OR 10.1175/2017BAMSStateoftheClimate.1 OR 10.1175/BAMS-D-15-00251.1 OR 10.1175/BAMS-D-16-0009.1 OR 10.1175/BAMS-D-16-0052.1 OR 10.1175/JCLI-D-15-0878.1 OR 10.1175/JCLI-D-16-0569.1 OR 10.1175/JCLI-D-16-0573.1 OR 10.1175/JCLI-D-16-0779.1 OR 10.1175/JCLI-D-16-0836.1 OR 10.1175/JCLI-D-16-0852.1 OR 10.1002/2016GL070750 OR 10.1038/ncomms13244 OR 10.1002/2016gl069542 OR 10.1002/2016JC012079 OR 10.5670/oceanog.2016.41 OR 10.1002/2016JC012091 OR 10.1002/2016gl070860 OR 10.1002/2016gb005380 OR 10.1002/2015jc010886 OR 10.1002/2016JC011857 OR 10.1109/JSTARS.2016.2524698 OR 10.1134/s0001433816040125 OR 10.1357/002224016819257335 OR 10.1002/2016gl069595 OR 10.1175/jtech-d-15-0140.1 OR 10.1002/2016jc012304 OR 10.1175/jpo-d-16-0150.1 OR 10.3103/s1068373916070050 OR 10.1134/s0001437016060059 OR 10.5194/gmd-9-3779-2016 OR 10.5194/os-12-1179-2016 OR 10.1134/s0001433816090152 OR 10.1134/s0001433816050078 OR 10.1134/s0001433816040071 OR 10.1175/MWR-D-15-0174.1 OR 10.1515/RJNAMM.2011.012 OR 10.17159/sajs.2017/20160330 OR 10.18063/SOM.2016.02.001 OR 10.3103/S1068373916070050 OR "10.3319/TAO.2009.06.08.04(IWNOP)" OR 10.5194/bg-13-5865-2016 OR 10.5194/nhess-17-17-2017 OR 10.5670/oceanog.2009.70 OR 10.1007/s00343-018-6302-y OR 10.1007/s00382-015-2843-3 OR 10.1007/s00382-016-3259-4 OR 10.1002/2015GL064220 OR 10.1002/2015GL064538 OR 10.1002/2015GL064540 OR 10.1002/2015GL064601 OR 10.1002/2015GL064822 OR 10.1002/2015GL065254 OR 10.1002/2015GL065259 OR 10.1002/2015GL065603 OR 10.1002/2015GL065636 OR 10.1002/2015GL065814 OR 10.1002/2015GL065848 OR 10.1002/2015GL065950 OR 10.1002/2015GL066050 OR 10.1002/2015GL066979 OR 10.1002/2015GL067038 OR 10.1002/2015GL067235 OR 10.1002/2015GL067254 OR 10.1002/2015GL067495 OR 10.1002/2015JC010730 OR 10.1002/2015JC010744 OR 10.1002/2015JC010752 OR 10.1002/2015JC010759 OR 10.1002/2015JC010768 OR 10.1002/2015JC010790 OR 10.1002/2015JC010800 OR 10.1002/2015JC010802 OR 10.1002/2016JC011956 OR 10.3389/fmars.2016.00155 OR 10.1007/s10236-016-0932-4 OR 10.1109/JSTARS.2015.2497355 OR 10.1175/jtech-d-16-0033.1 OR 10.1088/1748-9326/11/12/124023 OR 10.1002/2015jc011480 OR 10.1016/j.csr.2016.01.002 OR 10.3989/scimar.04289.06A OR 10.1002/2016gl068217 OR 10.1007/s00382-016-3057-z OR 10.1002/2016gl071055 OR 10.1016/j.rse.2015.12.025 OR 10.1109/TGRS.2016.2596100 OR 10.1073/pnas.1518395113 OR 10.1002/2016gl067895 OR 10.1175/jpo-d-16-0157.1 OR 10.1016/j.dsr.2016.10.010 OR 10.1007/s00382-016-3056-0 OR 10.1002/2015jc011523 OR 10.1002/2015jc011592 OR 10.1007/s40071-016-0124-3 OR 10.1007/s00382-016-3009-7 OR 10.1134/s1560354716030060 OR 10.1002/2015jc011177 OR

10.1002/2015jc011522 OR 10.1175/JCLI-D-16-0915.1 OR 10.1175/JCLI-D-17-0004.1 OR 10.1175/JCLI-D-17-0133.1 OR 10.1175/JPO-D-16-0263.1 OR 10.1175/JPO-D-16-0274.1 OR 10.1175/JPO-D-17-0031.1 OR 10.1175/JTECH-D-16-0198.1 OR 10.1175/JTECH-D-17-0016.1 OR 10.1364/AO.52.000795 OR 10.5194/bg-14-2167-2017 OR 10.5194/os-12-1067-2016 OR 10.5194/os-12-1105-2016 OR 10.5194/os-12-1165-2016 OR 10.5194/os-12-577-2016 OR 10.5194/os-12-925-2016 OR 10.5194/os-13-175-2017 OR 10.5194/os-13-315-2017 OR 10.1002/2015JC010836 OR 10.1002/2015JC010865 OR 10.1002/2015JC010886 OR 10.1002/2015JC010895 OR 10.1002/2015JC010901 OR 10.1002/2015JC010906 OR 10.1002/2015JC010913 OR 10.1002/2015JC010934 OR 10.1002/2015JC010939 OR 10.1002/2015JC010950 OR 10.1002/2015JC010967 OR 10.1002/2015JC010969 OR 10.1002/2015JC011010 OR 10.1002/2015JC011016 OR 10.1002/2015JC011021 OR 10.1002/2015JC011047 OR 10.1002/2015JC011103 OR 10.1002/2015JC011115 OR 10.1002/2015JC011130 OR 10.1002/2015JC011134 OR 10.1002/2015JC011143 OR 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10.1016/j.dsr2.2015.06.018 OR 10.1146/annurev-marine-122414-034113 OR 10.1002/2015jc011505 OR 10.1007/s40641-016-0043-9 OR 10.1007/s11430-016-0048-2 OR 10.1002/lno.10350 OR 10.3989/scimar.04291.15A OR 10.1007/s00382-016-3241-1 OR 10.1007/s10872-016-0379-8 OR 10.1002/2015JC011283 OR 10.1002/2015JC011290 OR 10.1002/2015JC011312 OR 10.1002/2015JC011343 OR 10.1002/2015JC011351 OR 10.1002/2015JC011352 OR 10.1002/2015JC011402 OR 10.1002/2015JC011408 OR 10.1002/2015JC011413 OR 10.1002/2015JC011417 OR 10.1002/2015JC011423 OR 10.1002/2015JC011439 OR 10.1002/2015JC011440 OR 10.1002/2015JC011471 OR 10.1002/2015JC011480 OR 10.1002/2015JC011495 OR 10.1002/2015JC011505 OR 10.1002/2015JC011510 OR 10.1002/2015JC011522 OR 10.1002/2015JC011527 OR 10.1002/2015JC011542 OR 10.1002/2015JC011586 OR 10.1002/2015JC011591 OR 10.1002/2015JC011592 OR 10.5194/os-13-453-2017 OR 10.5194/os-13-521-2017 OR 10.1002/2015jc011510 OR 10.1002/2016jc011721 OR 10.1175/bams-d-14-00197.1 OR 10.1002/2016gl070287 OR 10.1002/2016EF000417 OR 10.1002/2016jc012046 OR 10.1002/2016gl068097 OR 10.1002/2016jc011854 OR 10.1002/2016jc011634 OR 10.1002/lno.10011 OR 10.1002/2015ms000462 OR 10.1038/srep16782 OR 10.1109/dsaa.2015.7344896 OR 10.1007/s10872-015-0273-9 OR 10.1007/s10872-015-0298-0 OR 10.1109/jstars.2014.2318432 OR 10.1175/bams-d-12-00157.1 OR 10.1175/2012BAMSStateoftheClimate.1 OR 10.1007/s12040-012-0191-9 OR 10.1007/s12040-012-0149-y OR 10.1080/16742834.2012.11446984 OR 10.1080/16742834.2012.11446965 OR 10.1080/16742834.2012.11446977 OR 10.1038/ngeo1156 OR 10.1007/s10872-017-0416-2 OR 10.1007/s10872-017-0423-3 OR 10.1007/s10872-017-0431-3 OR 10.1007/s11069-017-2945-9 OR 10.1007/s11430-016-0106-9 OR 10.1007/s11430-016-0201-9 OR 10.1007/s11707-017-0631-6 OR 10.1007/s12601-017-0030-7 OR 10.1007/s13131-017-1078-z OR 10.1007/s13131-017-1079-y OR 10.1007/s40641-017-0063-0 OR 10.1016/j.dsr2.2016.05.018 OR 10.1016/j.jmarsys.2017.04.005 OR 10.1016/j.jmarsys.2017.07.003 OR 10.1016/j.ocemod.2017.05.008 OR 10.1016/j.pocean.2017.07.001 OR 10.1016/j.rse.2017.08.021 OR 10.1016/j.scitotenv.2017.08.303 OR 10.1029/2016EO062427 OR 10.1109/DSAA.2015.7344896 OR 10.1109/JSTARS.2017.2685690 OR 10.1109/LGRS.2005.861930 OR 10.1109/LGRS.2012.2207943 OR 10.1109/LGRS.2013.2259792 OR 10.1109/LGRS.2013.2277391 OR 10.1002/2015JC011607 OR 10.1002/2015JC011615 OR 10.1002/2015MS000462 OR 10.1002/2015RG000493 OR 10.1002/2016GB005380 OR 10.1002/2016GB005383 OR 10.1002/2016GB005545 OR 10.1002/2016GL067895 OR 10.1002/2016GL068097 OR 10.1002/2016GL068184 OR 10.1002/2016GL068539 OR 10.1002/2016GL068605 OR 10.1002/2016GL068822 OR 10.1002/2016GL069542 OR 10.1002/2016GL069595 OR 10.1002/2016GL069596 OR 10.1002/2016GL069605 OR 10.1002/2016GL069652 OR 10.1002/2016GL069789 OR 10.1002/2016GL069973 OR 10.1002/2016GL070220 OR 10.1002/2016GL070287 OR 10.1002/2016GL070565 OR 10.1002/2016GL070567 OR 10.1002/2016GL070860 OR 10.1002/2016GL071055 OR 10.1002/2016GL071349 OR 10.1002/2016GL071767 OR 10.1002/2016JC012052 OR 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10.1029/2011JC007228 OR 10.1029/2011JC007277 OR 10.5194/os-5-59-2009 OR 10.5194/angeo-26-395-2008 OR 10.1007/BF03020695 OR 10.1029/2008EO230001 OR 10.4319/lo.2008.53.5_part_2.2112 OR 10.4319/lo.2008.53.5_part_2.2062 OR 10.1016/j.gloplacha.2008.06.001 OR 10.5194/os-4-61-2008 OR 10.1109/IGARSS.2007.4422966 OR 10.4319/lo.2008.53.5_part_2.2094 OR 10.4319/lo.2008.53.5_part_2.2080 OR 10.5670/oceanog.2008.67 OR 10.5194/os-4-133-2008 OR 10.5194/os-4-1-2008 OR 10.1175/2008bams2519.1 OR 10.1073/pnas.0611375104 OR 10.1007/BF03020915 OR 10.5194/os-3-149-2007 OR 10.1007/s11802-007-0107-5 OR 10.1175/JPO2985.1 OR 10.5194/os-3-485-2007 OR 10.1175/BAMS-88-6-StateoftheClimate OR 10.1175/JTECH2026.1 OR 10.1007/s10872-007-0029-2 OR 10.5194/os-3-205-2007 OR 10.5194/os-3-379-2007 OR 10.1007/s10872-007-0055-0 OR 10.5194/os-3-363-2007 OR 10.1007/s00376-007-0383-4 OR 10.1002/2013JC009302 OR 10.1002/2013JC009314 OR 10.1002/2013JC009326 OR 10.1002/2013JC009357 OR 10.1002/2013JC009366 OR 10.1002/2013JC009375 OR 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