

**Papers
published from 2014-2021
on ARGO Floats**

Bibliometric data

*Publications indexed in
Web of Science*

March 2022

<p>Author: Pascalines CHAUSSENOT (Ifremer, IST) appuidoc@ifremer.fr</p>	<p>Papers published from 2014-2021 on ARGO Floats. Bibliometric data</p>	<p>For the attention of: Megan Scanderbeg (ARGO Research Associate at Scripps Institution of Oceanography, University of California San Diego)</p>
<p>English proofreading: Agnès VITEL-TYSON (Ifremer, IST)</p>		
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Purpose of the document

This document presents a set of bibliometric data on papers related to ARGO Floats and their data¹, and published from 2014 to 2021².

Tools & Methodology

The ARGO bibliography is kept up to date by Megan Scanderbeg (ARGO Research Associate at Scripps Institution of Oceanography, University of California San Diego)³. Only the papers that have a DOI provided by Megan Scanderbeg and that are indexed and retrieved in March 2022 from the Web Of Science (WoS)⁴ have been taken into account in this study.

See [Appendix III - Query in WoS](#).

The bibliographic and bibliometric data come from the WoS database and other Clarivate products such as InCites and Essential Science Indicators (ESI).

The graphs and figures are obtained from Orbit Intellixir Software (Questel, IP Business Intelligence) and Excel (Microsoft). The analysis is mainly based on occurrence (publication) and co-occurrence (co-publication).

The treatment process is semi-automatic: despite verifications, some figures might present some anomalies. Many bibliometric data come from the commercial database Web of Science which has its own processing algorithms.

The data presented here are to be considered as an order of magnitude rather than exact numbers.

See [Appendix II - Tools & Methodology](#)

Key points

Production

3265 ARGO papers published between 2014-2021 were retrieved in WoS database using the DOI list provided by Megan Scanderbeg.

Main research fields (according to several classifications)

- WoS subject categories (at least 5% of the ARGO publications): *Oceanography* (53%), *Meteorology & Atmospheric Sciences* (27%), *Geosciences Multidisciplinary* (18%), *Environmental Sciences* (10%), *Marine & Freshwater Biology* (6%), *Remote Sensing* (5%).
- ESI classification: *Geosciences* (85%)
- Citation Topics (attributed to more than 10% of the ARGO papers): at the meso level, *Oceanography*, *Meteorology & Atmospheric Sciences* (81%) and *Marine Biology* (13%); at the micro level, *Internal Waves* (55%), *ENSO* (18%) and *Phytoplankton* (11%).

¹ ARGO international program: <https://argo.ucsd.edu/>

² It's an update of the previous study: Chausseot Pascaline (2020). Bibliometric analysis of the Argo floats 2014-2019 publications. <https://doi.org/10.13155/77281>

³ <https://argo.ucsd.edu/outreach/publications/bibliography/>

⁴ A bibliographic (WoS-Core Collection) and bibliometric (WoS-InCites) database indexing documents published in a selection of peer-reviewed journals and conference proceedings. A commercial database from Clarivate Analytics publisher <https://apps.webofknowledge.com/>

- Terms from title and/or abstract (in more than 30% of the ARGO publications): *Ocean/Sea* (93% of the papers), *Model* (49%), *Temperature* (44%), *Variability* (38%), *Salinity* (33%), *Current* (33%), *Argo* (32%), *Sea Surface* (32%), *Depth* (31%), *Satellite* (30%).
- Keywords from authors and indexation (in more than 10% of the ARGO publications): *Variability* (33%), *Circulation* (23%), *Ocean* (18%), *Model* (16%), *Temperature* (14%).

Main countries⁵ (more than 10% of the papers)

- International other than Europe (83%): United States (45%), China (23%)
- Europe (38% of the papers and 29% without France): United Kingdom (13%)
- France: 18%; 10% if we attribute to France only the papers where the first author of the publication is affiliated in France.

Collaborations

- International and Europe (France included): 21% of the ARGO publications
- France and Europe or another international country: 14%
- Three-level collaboration (co-authors affiliated in France, and with at least another European country and at least another country outside Europe): 6%
- International without any affiliated co-author in Europe (France included): 62%
- Europe (France included) without any co-author from another country: 17%
- Europe (France not included) without any co-author from another country: 10%
- France without any co-author from another country: 4%

Main institutions (at least 5% of the ARGO papers)

CNRS (14% of the papers), IRD (11%), NOAA (11%), University of California System (11%) including San Diego (8%), Chinese Academy of Sciences (10%), Sorbonne Université (9%), Ifremer (7%), Nasa (6%), WHOI (6%), University of Washington Seattle (6%), CSIRO (6%), JAMSTEC (5%), Helmholtz Association (5%), MNHN (5%), Ocean University of China (5%), NERC (5%)

Journals

- Main journals (at least 3% of the ARGO papers, i.e. 100 papers): *Journal Of Geophysical Research-Oceans* (21%), *Geophysical Research Letters* (7%), *Journal Of Physical Oceanography* (5%), *Journal Of Climate* (5%), *Climate Dynamics* (4%)
- 44% of journals with impact factor ranked in quartile Q1 (high impact journal) which come to 73% of the publications (2329 papers).

Open access (OA)

- A quarter of the journals are on Gold Open Access. The main ones are *Frontiers in Marine Science* (3% of the ARGO papers), *Ocean Science* (3%) and *Scientific Reports* (2%).
- 63% of the ARGO publications are available on open access: 17% are published in Gold OA journals, 16% in hybrid journals and 30% are Open Access via another route (i.e green access or free to read)

Citations - Impact (data on 11 March 2022)

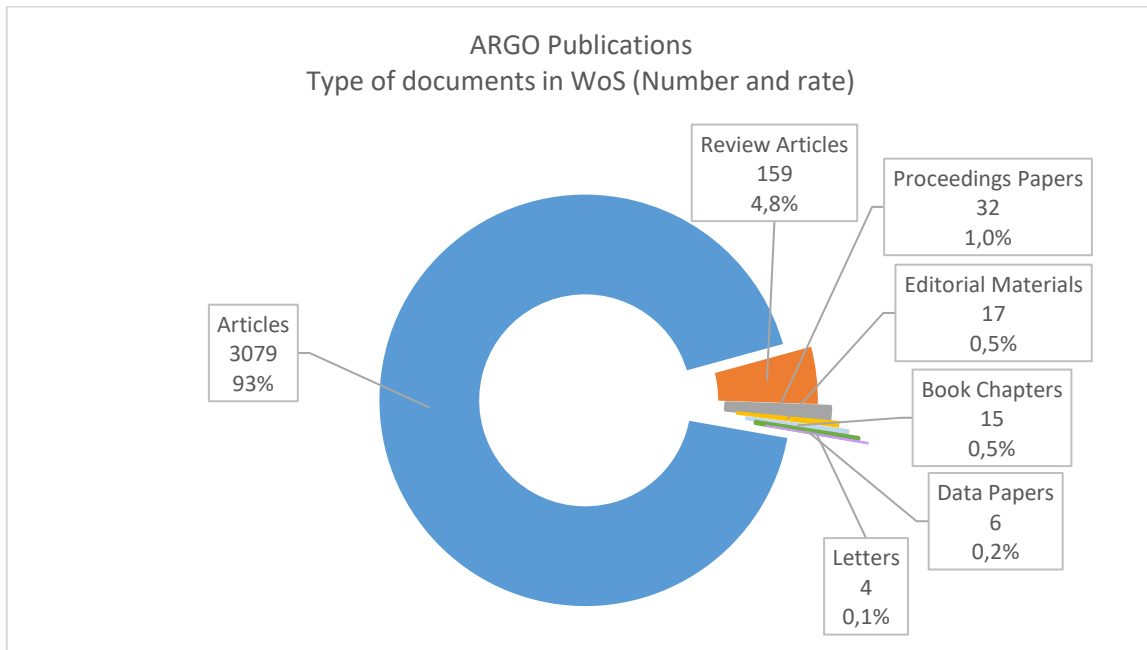
- 90% of the ARGO papers are cited at least once in WoS with an average of 17 citations per paper and a median of 8 citations. The mostly cited paper (published in 2017) received 917 citations.
- 81 ARGO papers are in the Top 1% of the most cited articles and 16% (528 papers) are in the Top 10%.
- 77 papers are designated *Highly Cited Paper*

⁵ A publication is attributed to a country if at least one of its authors is affiliated to this country as mentioned in his address.

1. Production

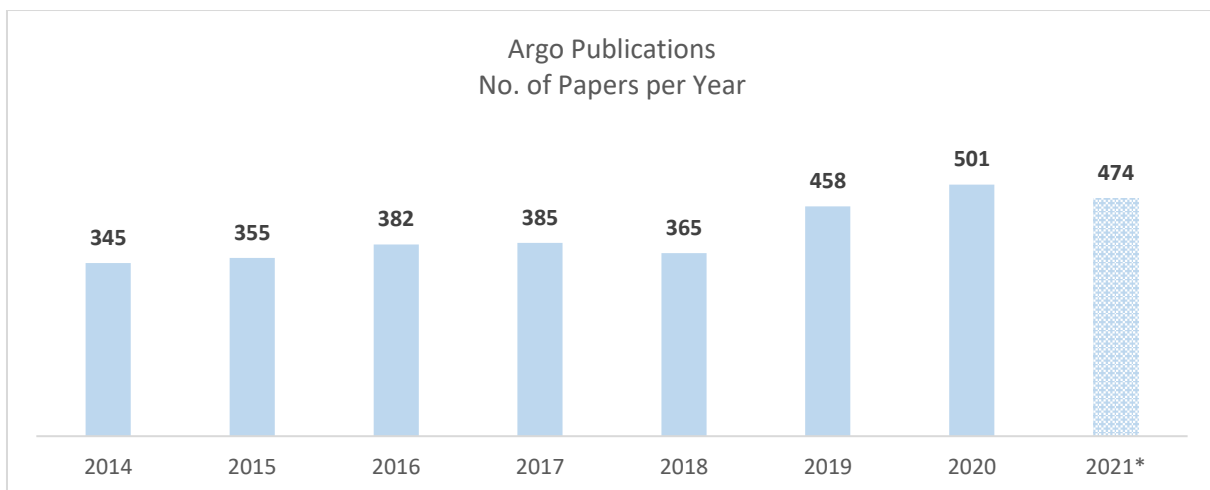
3265 papers published from 2014 to 2021 are identified in the Web Of Science database.

1.1. Types of documents



1.2. Time evolution

Between 2014 and 2021, the average is 408 papers per year. A first time range, from 2014 to 2018, presents an average of 366 papers per year. A second time range, 2019 until 2021, the average is 477 papers per year.



* At the time of the study, not all papers published in 2021 might have been reported.

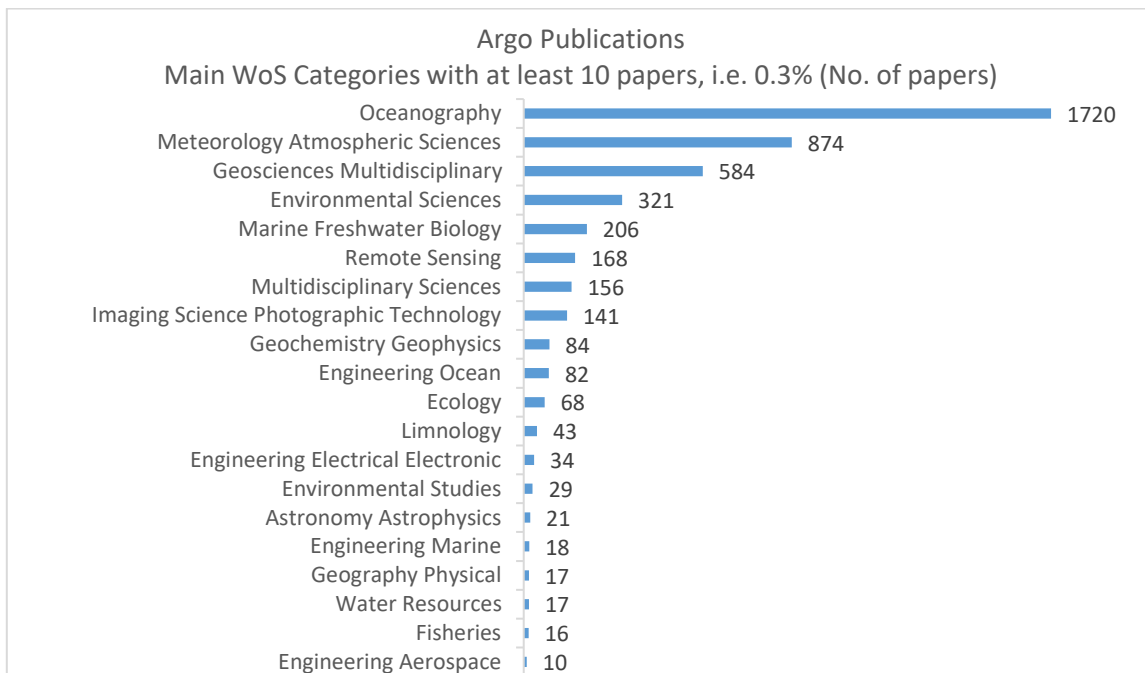
2. Research fields

2.1. WoS Categories

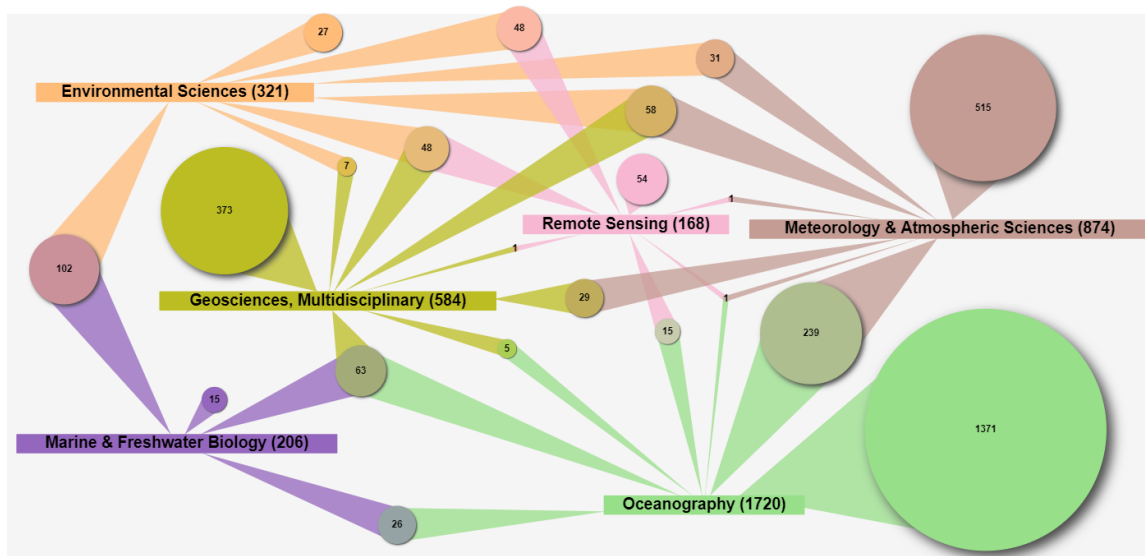
WoS categories classify journals in 251 research fields for the whole WoS-Core collection database. A journal can be given different categories. By extension here, despite a bias, the journal research field is attributed to the articles published in this journal.

56 subject categories appear in the ARGO publications.

The main subjects (at least 5% of the ARGO publications, i.e. 168 papers) are *Oceanography* (53%), *Meteorology & Atmospheric Sciences* (27%), *Geosciences Multidisciplinary* (18%), *Environmental Sciences* (10%), *Marine & Freshwater Biology* (6%), *Remote Sensing* (5%).



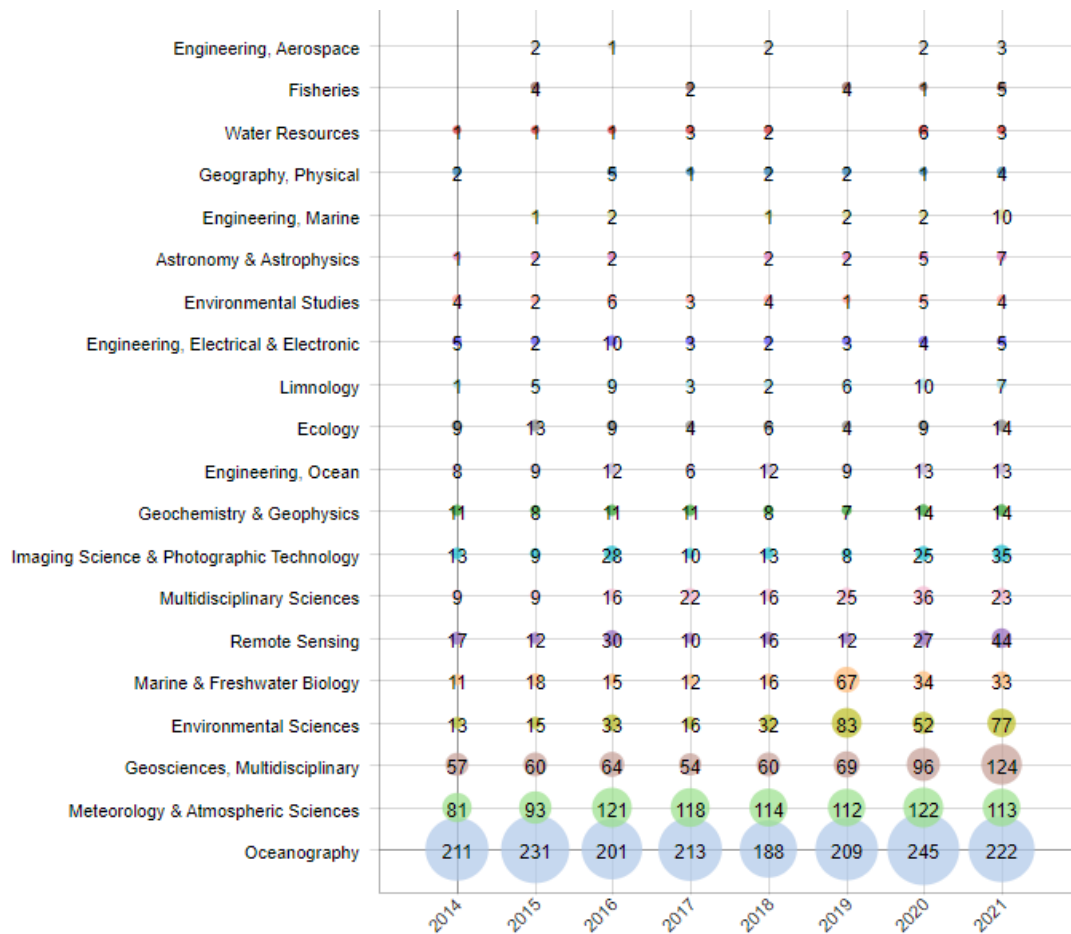
Distribution and overlap of the main themes



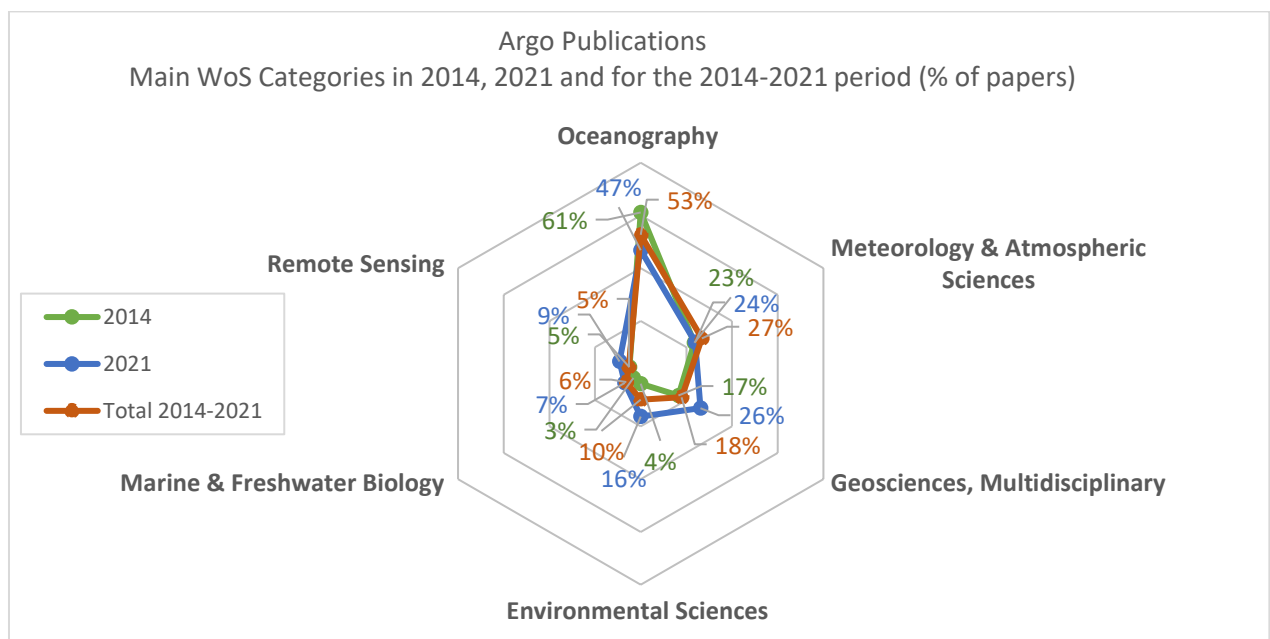
Among the 1720 publications published in journals classified in the WoS subject category *Oceanography*, 89 papers were published in journals also classified under *Marine&Freshwater Biology*: 26 papers in journals classified in these two categories and 63 papers also under *Geosciences*.

Time evolution of the main WoS categories

Main WoS Categories with at least 10 papers (0.3% of the 3265 ARGO Papers)



Main WoS Categories with at least 5% of the 3265 ARGO Papers



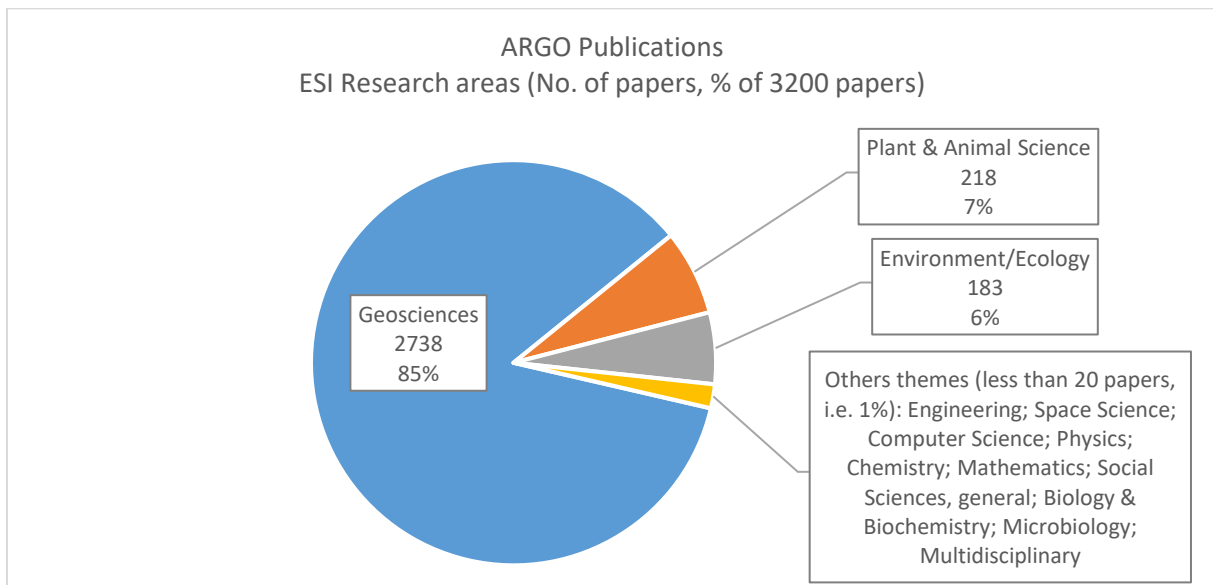
2.2. ESI classification

The Essential Science Indicators (ESI) classification provides 22 research fields to classify a part of WoS-Core collection database journals (limited to Science Citation Index Expanded and Social Science Citation Index). A journal is classified in only one of those categories. By extension here, despite a bias, the journal research field is attributed to all the articles published in this journal.

3200 documents have been studied under this classification.

14 research areas have come out in this publication set.

The main research fields according to the ESI classification are *Geosciences* which cover 85% of the classified publications.



2.3. Citation Topics

The Citation Topics⁶ in WoS-InCites is a recent classification of articles according to a thematic grouping algorithm based on their citation network (the articles cited and citing the observed publication). The ranking can thus change according to the evolution of the citations. The theme does not specifically describe the publication itself but the publications from its bibliography and those citing it.

There are three levels of classification: the Macro level (10 categories), the Meso, intermediate, level (326 categories) and a more detailed "Micro" level (2444 categories). An article is classified in only one of the categories.

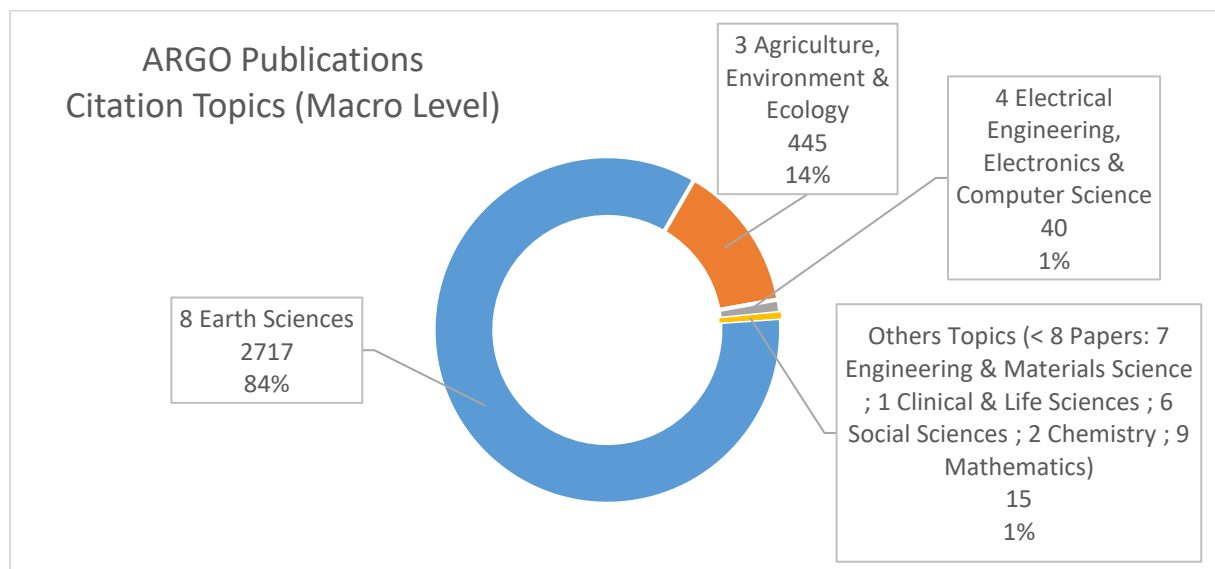
The wording of the Citation Topics includes a numerical prefix designating the thematic group at each level.

3217 papers of the ARGO publication set are categorized in this thematic classification.

At the macro level, 9 Citation Topics are identified. The two main topics are *Earth Sciences* (84% of the papers) and *Agriculture, Environment & Ecology* (14%).

At the meso level, 34 themes are identified. The main ones (attributed to more than 10% of the ARGO papers) are *Oceanography, Meteorology & Atmospheric Sciences* (81%) and *Marine Biology* (13%).

At the micro level, 71 themes are identified. The main ones (attributed to more than 10% of the ARGO papers) are *Internal Waves* (55%), *ENSO* (18%) and *Phytoplankton* (11%).



The following tables present the themes of the **meso and micro levels**. A colour is added to highlight the two main thematic groups of the macro level.

⁶ Citation Topics <https://incites.help.clarivate.com/Content/Research-Areas/citation-topics.htm>

Meso Citation Topics	No. Of Papers	% of the 3217 ARGO papers
8.19 Oceanography, Meteorology & Atmospheric Sciences	2594	81%
3.2 Marine Biology	428	13%
8.205 Ocean Dynamics	33	1%
8.292 Mapping & Topography	32	<1%
4.169 Remote Sensing	29	<1%
8.212 Sensors & Tomography	18	<1%
8.8 Geochemistry, Geophysics & Geology	12	<1%
8.124 Environmental Sciences	10	<1%
8.93 Archaeology	8	<1%
8.242 Nuclear Geology	6	<1%
3.60 Herbicides, Pesticides & Ground Poisoning	5	<1%
3.35 Zoology & Animal Ecology	4	<1%
3.45 Soil Science	4	<1%
7.70 Thermodynamics	4	<1%
4.17 Computer Vision & Graphics	3	<1%
4.61 Artificial Intelligence & Machine Learning	3	<1%
1.42 Bacteriology	2	<1%
4.299 Electrical Protection	2	<1%
4.48 Knowledge Engineering & Representation	2	<1%
6.27 Political Science	2	<1%
7.57 Modelling & Simulation	2	<1%
8.312 Gas Hydrates	2	<1%
1.155 Medical Ethics	1	<1%
2.39 Polymer Science	1	<1%
3.198 Mycotoxins	1	<1%
3.40 Forestry	1	<1%
3.64 Phylogenetics & Genomics	1	<1%
3.83 Bioengineering	1	<1%
4.18 Power Systems & Electric Vehicles	1	<1%
7.177 Combustion	1	<1%
7.226 Electrical - Sensors & Monitoring	1	<1%
8.140 Water Resources	1	<1%
8.305 Paleontology	1	<1%
9.92 Statistical Methods	1	<1%

Main Micro Citation Topics (more than 1% of the ARGO papers)	No. Of Papers	% of the 3217 ARGO papers
8.19.153 Internal Waves	1759	55%
8.19.38 ENSO	563	18%
3.2.154 Phytoplankton	367	11%
8.19.113 Tropical Cyclones	151	5%
8.19.1269 Scatterometer	63	2%
8.19.543 Clouds	35	1%
8.205.294 Sea Level Rise	33	1%

Macro level highlighted: *Earth Sciences and Agriculture, Environment & Ecology*

2.4. Terms from the title/abstract

Counting process⁷ is with inclusions, for example the count of the term *Sea Surface* (1045 papers) includes *Sea Surface Temperature* (616 papers) as *Sea Surface Salinity* (286 papers) or *Sea Surface Height* (209 papers).

The data are raw with no lexical combination: for instance, the two words *Depth* (31% of the paper set) and *Deep* (19%) are present in a total of 39% of all the ARGO publications but here they are counted separately.

Top terms

The main terms found in the title and/or abstract of more than 30% of the ARGO publications are *Ocean/Sea* in 93% of the papers, *Model* 49% (1597 papers), *Temperature* 44% (1437), *Variability* 38% (1254), *Salinity* 33% (1074), *Current* 33% (1073), *Argo* 32% (1052), *Sea Surface* 32% (1045), *Depth* 31% (1024), *Satellite* 30% (984 papers).

See Table on next page: Terms from title and/or abstract found in at least 180 papers, i.e. 6% of the paper set.

Alphabetical list

The displayed terms (78 Top terms) are found in at least 310 publications, that is at least 10% of the paper set.

Advection | Anomaly | Argo | Argo float | Assimilation | Atmosphere | Atmospheric | Basin
Boundary | Budget | Circulation | Climate | Coastal | Concentration | Cool | Current | Deep
Degree n | Depth | Distribution | Driven | Dynamic | Eddy | Energy | Equatorial | Error | Float | Flux
Fluxe | Forecast | Global ocean | Gyre | Heat | High resolution | Indian | Indian ocean | Interannual
Latitude | Measurement | Mechanism | Meridional | Mesoscale | Mix layer | Model | Northern
Ocean | Ocean model | Oceanic | Oscillation | Physical | Reanalysis | Regional | Salinity
Satellite | **Sea** | Sea surface | Sea surface temperature | Seasonal | Simulation
Spatial | Sst | Subsurface | Subtropical | Summer | Surface salinity | Surface temperature
Temperature | Temporal | Transport | Tropical | Upper ocean | Variability | Velocity
Warm | Water mass | Wave | Wind | Winter

The occurrence of a term is indicated by the size and colour of the characters: **red colour** corresponds to a term found in 80% of the paper set (**Ocean**); **orange colour**, between 40% and 61% (**Model** or **Sea**); **blue**, 22%-44% (such as **Argo** or **Temperature**); **in green**, 10%-21% (e.g. **Advection**)

⁷ The terms are automatically extracted from the title and/or abstract of the bibliographic references with the Intellixir tool.

Terms from title and/or abstract (in at least 180 papers, i.e 6% of the ARGO publications)	No. Of Papers	% of the 3265 Papers
Ocean	2618	80%
Sea	1982	61%
Model	1597	49%
Temperature	1437	44%
Variability	1254	38%
Salinity	1074	33%
Current	1073	33%
Argo	1052	32%
Sea surface	1045	32%
Depth	1024	31%
Satellite	984	30%
Circulation	938	29%
Heat	806	25%
Climate	786	24%
Wind	769	24%
Eddy	739	23%
Float	737	23%
Transport	724	22%
Seasonal	684	21%
Anomaly	669	20%
Surface temperature	668	20%
Measurement	659	20%
Warm	648	20%
Mix layer	642	20%
Deep	625	19%
Sea surface temperature	616	19%
Tropical	572	18%
Simulation	566	17%
Spatial	560	17%
Oceanic	557	17%
Basin	516	16%
Winter	514	16%
Argo float	509	16%
Regional	504	15%
Atmospheric	489	15%
Subsurface	480	15%
Interannual	453	14%
Summer	450	14%
Boundary	447	14%
Flux	444	14%
Indian	426	13%
Upper ocean	423	13%
Mesoscale	422	13%
Sst	418	13%
Distribution	415	13%
Subtropical	415	13%
Ocean model	412	13%

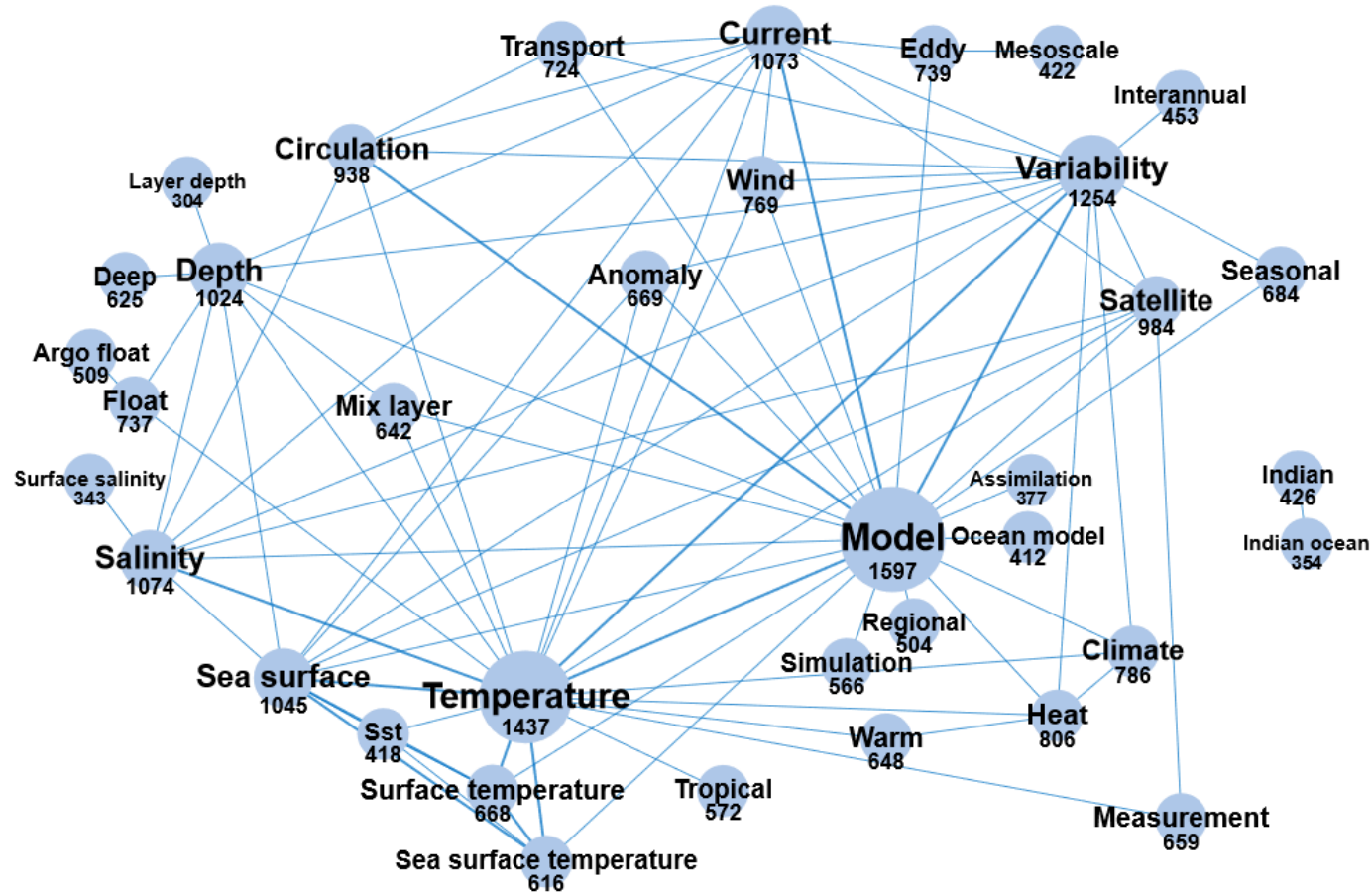
Northern	407	12%
Meridional	394	12%
Error	393	12%
Velocity	390	12%
Assimilation	377	12%
Temporal	370	11%
Fluxe	369	11%
Equatorial	366	11%
Mechanism	357	11%
Global ocean	354	11%
Indian ocean	354	11%
Driven	351	11%
Energy	349	11%
Reanalysis	347	11%
Oscillation	345	11%
Atmosphere	344	11%
Gyre	343	11%
Surface salinity	343	11%
Wave	343	11%
Physical	341	10%
Latitude	338	10%
Budget	335	10%
Concentration	332	10%
Cool	326	10%
Advection	325	10%
High resolution	325	10%
Dynamic	324	10%
Forecast	321	10%
Water mass	321	10%
Degree n	320	10%
Coastal	313	10%
Decadal	305	9%
Layer depth	304	9%
Observational	301	9%
Mix layer depth	297	9%
Southern ocean	297	9%
Stratification	294	9%
Ice	289	9%
Marine	286	9%
Sea surface salinity	286	9%
Data assimilation	285	9%
Track	284	9%
Carbon	282	9%
Prediction	282	9%
Biogeochemical	280	9%
Altimetry	278	9%
Degree c	278	9%
Upwel	276	8%
Long term	274	8%
Evolution	273	8%
Pacific ocean	273	8%

Large scale	271	8%
Interaction	270	8%
Gradient	269	8%
Air sea	265	8%
Thermocline	265	8%
Coast	263	8%
Freshwater	263	8%
Chlorophyll	261	8%
Dataset	261	8%
Resolve	251	8%
Signal	251	8%
Overturn	250	8%
Stress	249	8%
Cold	247	8%
Hydrographic	246	8%
Magnitude	244	7%
Heat content	241	7%
Cyclonic	239	7%
Degree s	236	7%
Profil	236	7%
Monitor	234	7%
Nutrient	234	7%
Ocean circulation	234	7%
Ocean heat	233	7%
El nino	229	7%
Interannual variability	228	7%
Net	228	7%
Antarctic	227	7%
Mesoscale eddy	226	7%
Overturn circulation	224	7%
Core	223	7%
Exchange	223	7%
Sss	223	7%
Remote	222	7%
Wind stress	221	7%
Geostrophic	220	7%
Relationship	219	7%
Zonal	219	7%
Earth	216	7%

Phytoplankton	215	7%
Weak	215	7%
Surface height	213	7%
Sea surface height	209	6%
Shelf	208	6%
Capture	207	6%
Oxygen	206	6%
Precipitation	206	6%
Sea ice	204	6%
Season	204	6%
Data set	203	6%
Interior	201	6%
Profil float	198	6%
Anticyclonic	197	6%
Kuroshio	194	6%
Assimilate	191	6%
Ekman	191	6%
Ensemble	191	6%
Pressure	190	6%
Sense	190	6%
Agreement	189	6%
Atlantic ocean	189	6%
Degree e	188	6%
Meridional overturn	188	6%
Monsoon	188	6%
Bias	187	6%
Cyclone	187	6%
Monthly	187	6%
Circulation model	186	6%
Boundary current	185	6%
Peak	185	6%
Biase	182	6%
Biological	182	6%
Deeper	182	6%
Sensor	181	6%
Ecosystem	180	6%
Meridional overturn circulation	180	6%

Network of extracted terms

The related terms appear in at least 300 publications in common. The main terms *Ocean* and *Sea* are not displayed.



For example: 1437 papers contain the term *Temperature* (in the title and/or the abstract). 1074 papers contain the term *Salinity*. At least 300 papers contain the two terms *Temperature* and *Salinity*.

2.5. Keywords

Keywords refers to *Authors Keywords* and *Keywords Plus*⁸ from the Web Of Science Core Collection database.

List

Keywords displayed are occurring in at least 64 publications (i.e. 2% of the paper set)

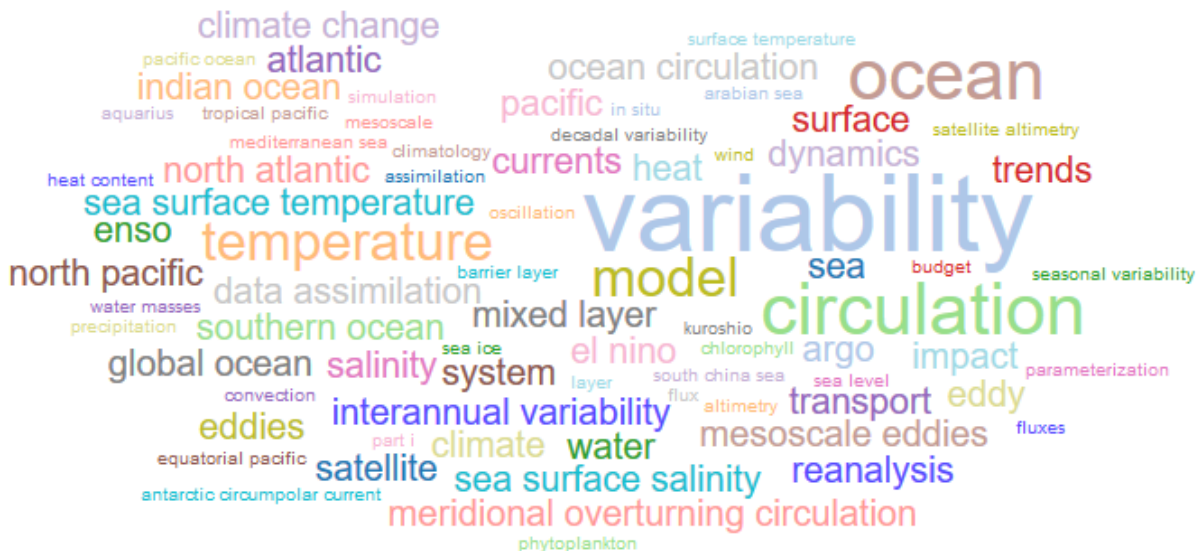
Keywords	No. Of Papers	% of the 3265 Papers
variability	1068	33%
circulation	736	23%
ocean	601	18%
model	520	16%
temperature	446	14%
transport	281	9%
pacific	279	9%
sea surface temperature	278	9%
water	263	8%
dynamics	262	8%
mixed layer	260	8%
impact	237	7%
interannual variability	227	7%
north atlantic	225	7%
salinity	223	7%
climate	219	7%
sea	219	7%
surface	217	7%
system	199	6%
data assimilation	193	6%
argo	188	6%
southern ocean	187	6%
mesoscale eddies	185	6%
eddies	184	6%
indian ocean	159	5%
atlantic	158	5%
el nino	158	5%
sea surface salinity	150	5%
enso	146	4%
climate change	137	4%
global ocean	131	4%
heat	128	4%
reanalysis	127	4%
meridional overturning circulation	123	4%
currents	121	4%
eddy	119	4%
satellite	118	4%
trends	115	4%
north pacific	112	3%
ocean circulation	112	3%
in situ	101	3%
phytoplankton	100	3%
tropical pacific	98	3%
wind	93	3%
oscillation	92	3%
convection	88	3%
part i	88	3%
barrier layer	84	3%
sea ice	82	3%
south china sea	82	3%
decadal variability	80	2%
layer	80	2%
heat content	79	2%
mediterranean sea	78	2%
sea level	78	2%
pacific ocean	77	2%
assimilation	75	2%
budget	75	2%
equatorial pacific	75	2%
flux	74	2%
arabian sea	73	2%
chlorophyll	72	2%
climatology	72	2%
satellite altimetry	72	2%
altimetry	71	2%
water masses	69	2%
simulation	68	2%
antarctic circumpolar current	67	2%
seasonal variability	66	2%
aquarius	65	2%
kuroshio	65	2%
surface temperature	65	2%
fluxes	64	2%
mesoscale	64	2%
parameterization	64	2%
precipitation	64	2%

⁸ https://images.webofknowledge.com/images/help/WOS/hp_full_record.html#dsy1028-TRS_keywords_plus

The main keywords (of authors and indexation) found in more than 10% of the ARGO publications are *Variability* 33% (1068 papers), *Circulation* 23% (736), *Ocean* 18% (601), *Model* 16% (520), *Temperature* 14% (446).

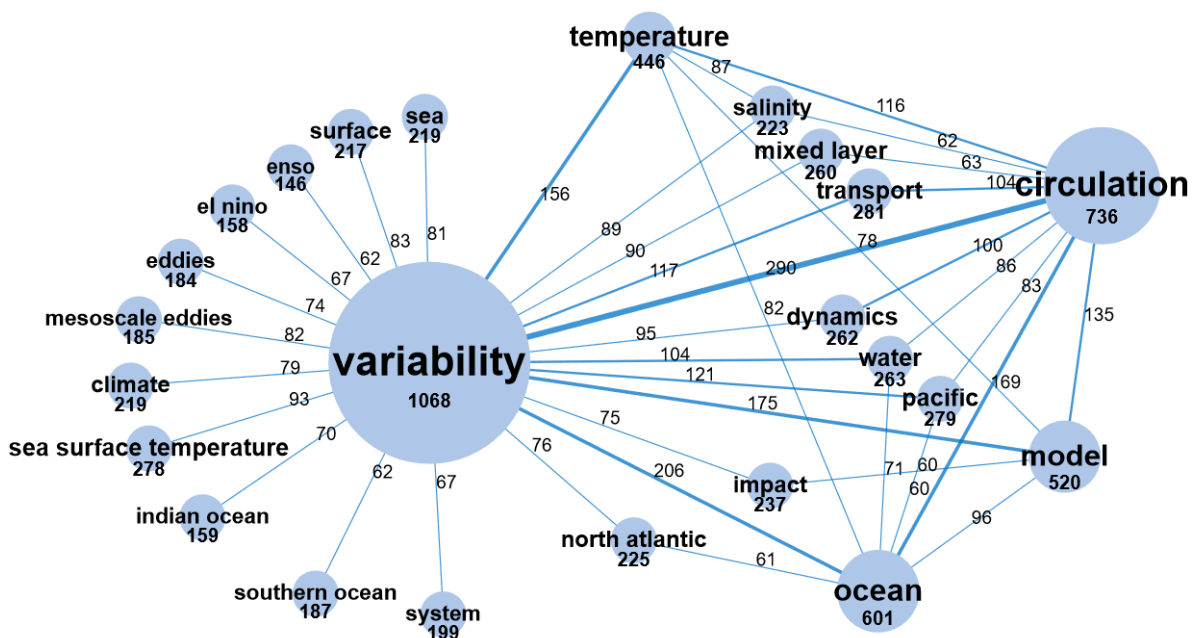
Tag cloud

The displayed keywords (Top 76) are found in at least 64 publications (2% of the paper set).



Keywords network

The related keywords appear in at least 60 publications in common. See the co-occurrence on the line connecting two keywords.



For example: 1068 papers contain the Keyword *Variability* (as *Authors Keyword* or *Keyword Plus* from WoS). 446 papers contain the Keyword *Temperature*. 156 papers contain the two keywords *Variability* and *Temperature*.

3. Authors' affiliations

3.1. Countries

A publication is attributed to a country if at least one of its authors is affiliated to this country as mentioned in his address. The same publication can therefore be counted under different countries.

List of countries mentioned in the author affiliations

45% of the ARGO publications are authored by one or several authors affiliated in the United States, 23% in China, 18% in France, 13% in United Kingdom.

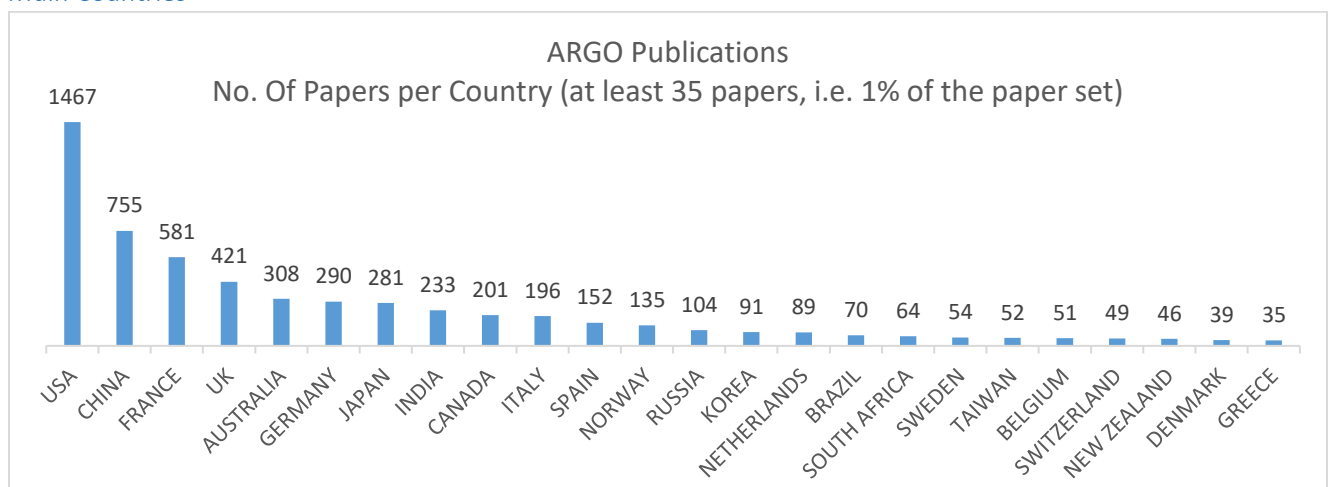
Author's Country/Region	No. Of Papers	% of the 3265 Papers
UNITED STATES	1467	45%
CHINA	755	23%
FRANCE (Overseas included)	581	18%
UNITED KINGDOM	421	13%
AUSTRALIA	308	9%
GERMANY	290	9%
JAPAN	281	9%
INDIA	233	7%
CANADA	201	6%
ITALY	196	6%
SPAIN	152	5%
NORWAY	135	4%
RUSSIA	104	3%
KOREA	91	3%
NETHERLANDS	89	3%
BRAZIL	70	2%
SOUTH AFRICA	64	2%
SWEDEN	54	1,7%
TAIWAN	52	1,6%
BELGIUM	51	1,6%
SWITZERLAND	49	1,5%
NEW ZEALAND	46	1,4%
DENMARK	39	1,2%
GREECE	35	1,1%
MEXICO	32	<1%
PORTUGAL	30	<1%
ARGENTINA	25	<1%
INDONESIA	25	<1%
SAUDI ARABIA	25	<1%
POLAND	24	<1%

IRELAND	22	<1%
TURKEY	20	<1%
FINLAND	19	<1%
CHILE	17	<1%
AUSTRIA	16	<1%
NEW CALEDONIA	16	<1%
ICELAND	13	<1%
PERU	13	<1%
BENIN	12	<1%
BULGARIA	12	<1%
ISRAEL	9	<1%
CROATIA	8	<1%
FRENCH POLYNESIA	8	<1%
HONG KONG	8	<1%
IRAN	8	<1%
SRI LANKA	8	<1%
VENEZUELA	7	<1%
COLOMBIA	6	<1%
CYPRUS	6	<1%
EGYPT	6	<1%
ESTONIA	6	<1%
GREENLAND	6	<1%
MALAYSIA	6	<1%
MOROCCO	6	<1%
PAKISTAN	6	<1%
UNITED ARAB EMIRATES	6	<1%
NIGERIA	5	<1%
ROMANIA	5	<1%
SENEGAL	5	<1%
CAYMAN ISLANDS	4	<1%
CUBA	4	<1%
ECUADOR	4	<1%
FAROE ISLANDS	4	<1%
FIJI	4	<1%

REUNION	4	<1%
SINGAPORE	4	<1%
URUGUAY	4	<1%
VIET NAM	4	<1%
ALGERIA	3	<1%
ANGOLA	3	<1%
BANGLADESH	3	<1%
BARBADOS	3	<1%
CAPE VERDE	3	<1%
COSTA RICA	3	<1%
GAMBIA	3	<1%
GUAM	3	<1%
JAMAICA	3	<1%
KENYA	3	<1%
LEBANON	3	<1%
MALTA	3	<1%
MONGOLIA	3	<1%
OMAN	3	<1%
THAILAND	3	<1%
TRINIDAD AND TOBAGO	3	<1%
TUNISIA	3	<1%
BERMUDA	2	<1%
BOLIVIA	2	<1%
BOTSWANA	2	<1%
CZECH REPUBLIC	2	<1%
DOMINICA	2	<1%
GHANA	2	<1%

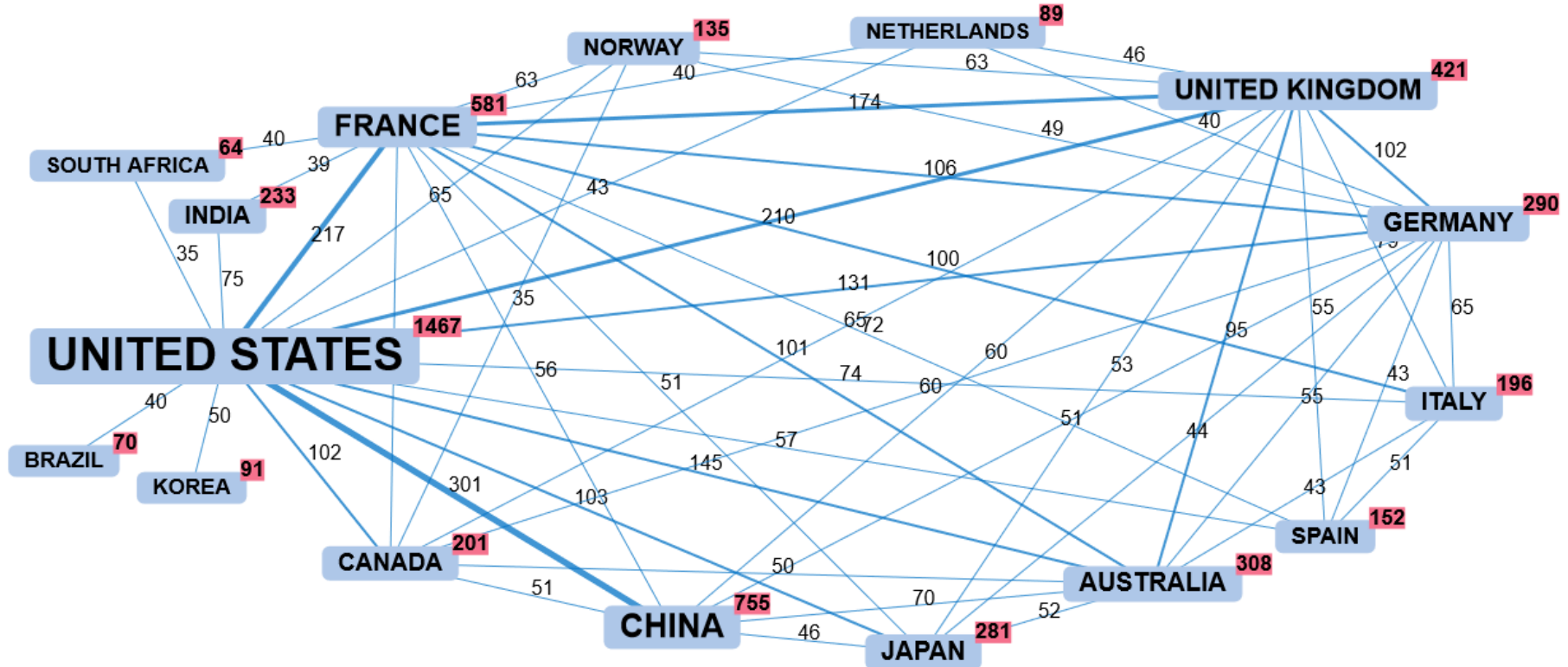
GRENADA	2	<1%
MADAGASCAR	2	<1%
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SLOVENIA	2	<1%
TANZANIA	2	<1%
UKRAINE	2	<1%
YEMEN	2	<1%
ANTIGUA AND BARBUDA	1	<1%
ARMENIA	1	<1%
BAHAMAS	1	<1%
BELARUS	1	<1%
COMOROS	1	<1%
COTE D IVOIRE	1	<1%
ETHIOPIA	1	<1%
GUADELOUPE	1	<1%
HUNGARY	1	<1%
LUXEMBOURG	1	<1%
MONACO	1	<1%
NAMIBIA	1	<1%
PARAGUAY	1	<1%
PHILIPPINES	1	<1%
SAMOA	1	<1%
SURINAME	1	<1%
VANUATU	1	<1%

Main Countries



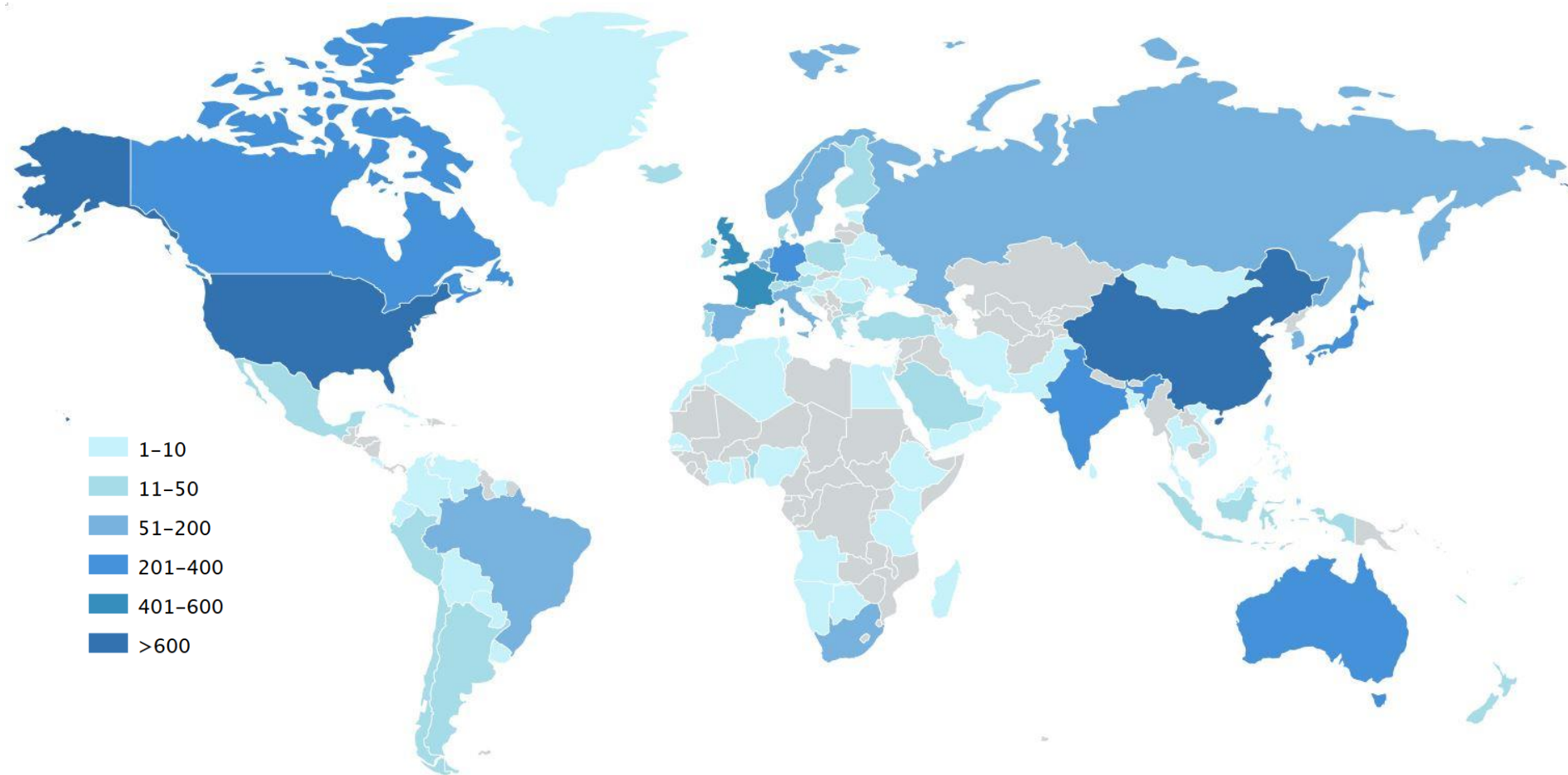
Network between the main countries

Only countries with at least 35 co-publications with another country are displayed: the number of publications in common (co-publications) is indicated on the lines linking two countries; the number of papers authored by one country is displayed in the corner of each label.

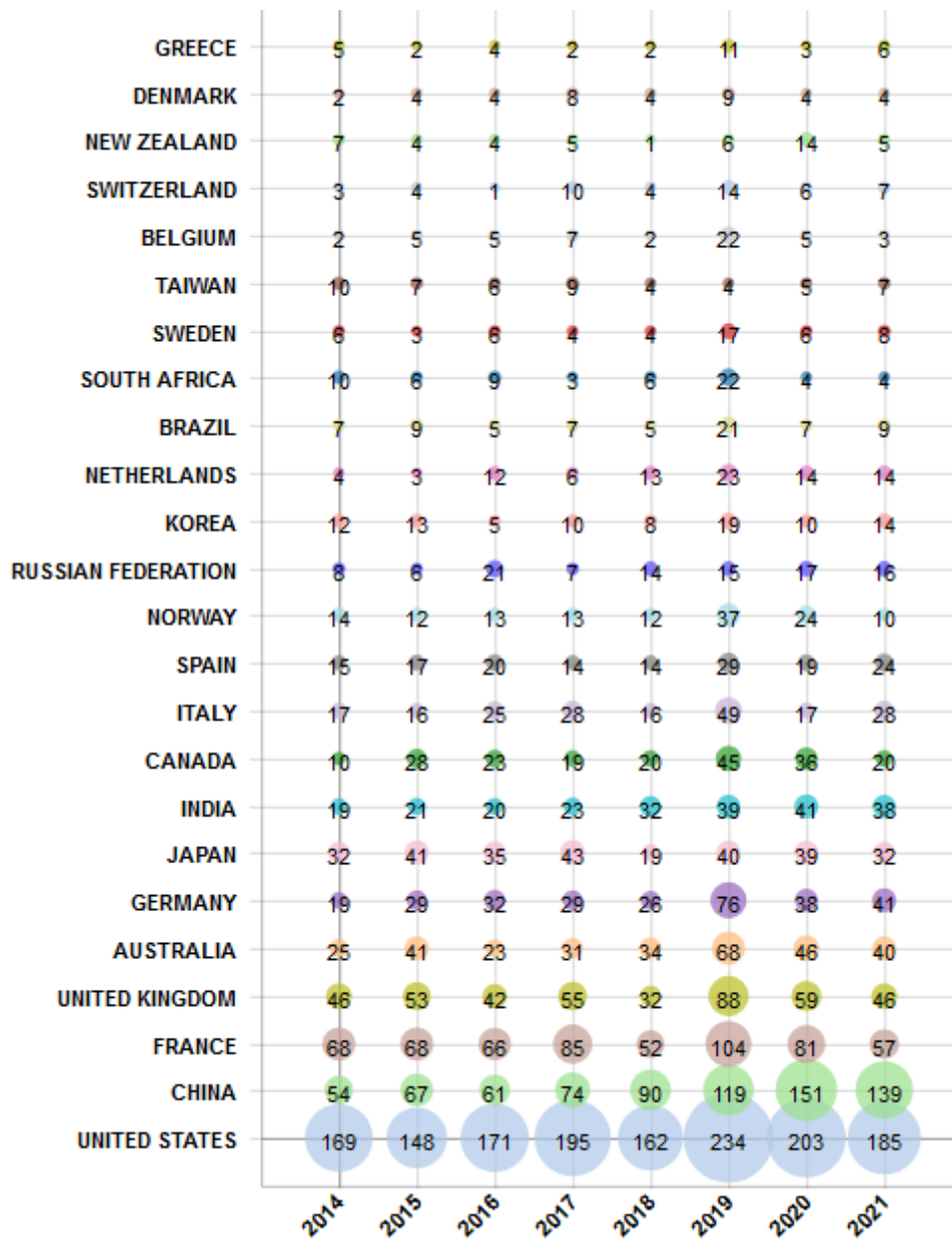


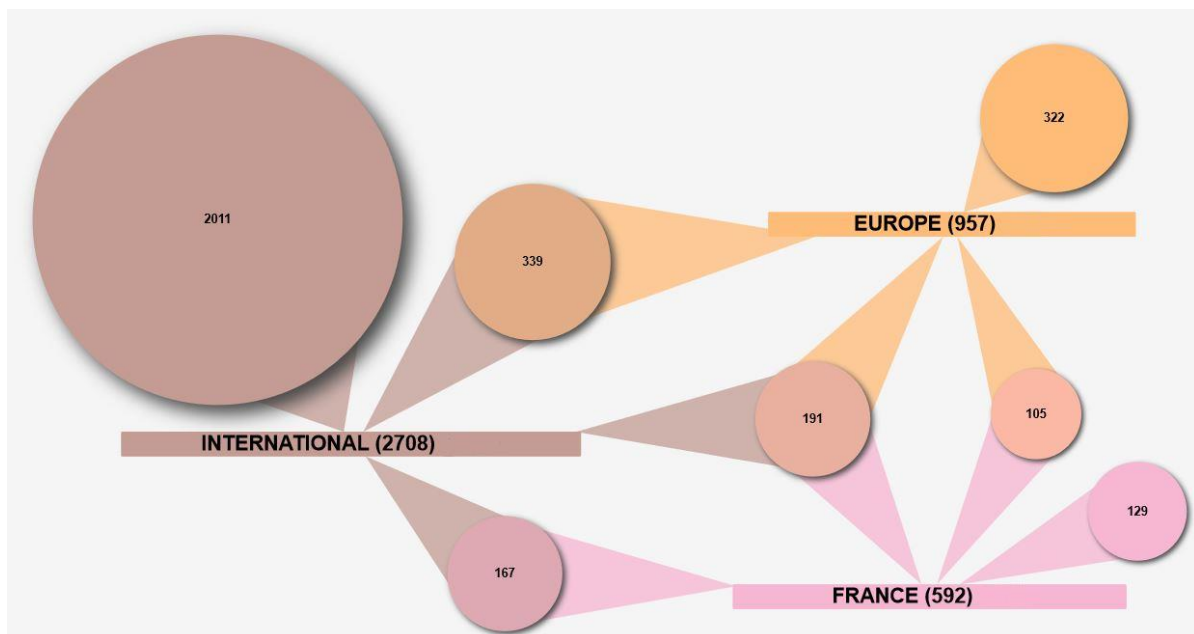
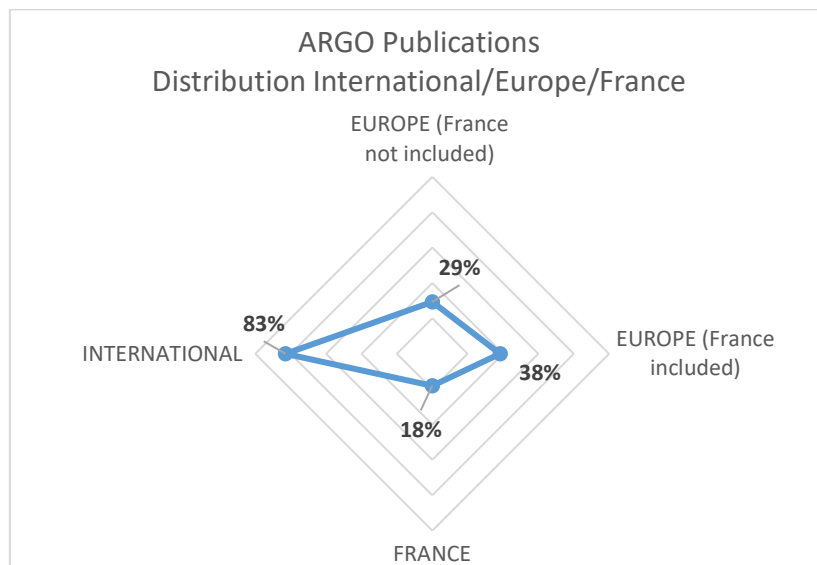
Reading example: France and United States have 217 co-publications; Spain and Italy have 51 co-publications.

Geographical map



Temporal distribution of main countries
at least 35 papers, i.e. 1% of the paper set





International

- 83% of the paper set (2708 papers) is signed by at least one author from an international country (other than European Union - EU, but EU is not excluded as co-author).
- 62% (2011 papers) is only with affiliations from international countries (EU excluded as co-author)
- 21% (691 papers) comes from a collaboration between Europe and an international partner.

Europe - EU (France included)

- 38% of the paper set (1253 papers) is with at least one affiliation from a European country - EU (international country not excluded as co-author).
- 17% (376 papers) is signed by authors solely affiliated in EU (international country excluded as co-author).

Europe (France not included)

- 29% of the publication set (957 papers) is authored by a European country without France (international country or France not excluded as co-author).
- 10% (322 papers) is only with affiliations from European countries (France or international country excluded as co-author).

France

-18% of the publication set (592 papers) is signed by at least one author affiliated in France (international or european countries not excluded as co-author).

If we attribute to France, the papers where the first author of the publication is affiliated in France⁹ then France represents almost 10% of the ARGO publication set (according to raw data from WoS-Incites).

- 4% (129 papers) is signed by authors solely affiliated in France.
- 6% (191 papers) comes from a three-level collaboration, that is with co-authors affiliated in France, and with at least another European country and at least another country outside Europe.
- 14% (463 papers) is signed by co-authors affiliated in France and in another country (European or international).

⁹ Counting method of Euro-Argo

3.2. Main institutions

The data below are raw data from WoS-Incites. Institutions are identified by a WoS algorithm, a unification process of the variant institution names from authors addresses. The identification may be incomplete and the various ways of writing down affiliations, especially in organizations with several entities (such as in France the Joint Research Units with joint trustees) can lead to over- or under-representation of some entities, when they are mentioned either fully or partially.

In the table below, institutions with a colour label refer to a parent organization and its children institutions: for example, in red colour, the Atlantic Oceanographic & Meteorological Laboratory (AOML) is a part of the National Oceanic Atmospheric Admin (NOAA).

Main Organizations (more than 2% of the ARGO publications)	Country	% of the ARGO Papers ¹⁰
Centre National de la Recherche Scientifique (CNRS)	FRANCE	14%
National Oceanic Atmospheric Admin (NOAA)	USA	11%
Institut de Recherche pour le Developpement (IRD)	FRANCE	11%
University of California System	USA	11%
Chinese Academy of Sciences CAS	CHINA	10%
Sorbonne Universite	FRANCE	9%
University of California San Diego	USA	8%
Ifremer	FRANCE	7%
National Aeronautics & Space Administration (NASA)	USA	6%
Woods Hole Oceanographic Institution	USA	6%
University of Washington Seattle	USA	6%
Commonwealth Scientific & Industrial Research Organisation (CSIRO)	AUSTRALIA	6%
Museum National d'Histoire Naturelle (MNHN)	FRANCE	5%
Helmholtz Association	GERMANY	5%
Japan Agency for Marine-Earth Science & Technology (JAMSTEC)	JAPAN	5%
Ocean University of China	CHINA	5%
NERC National Oceanography Centre	UK	5%
University of Chinese Academy of Sciences, CAS	CHINA	4%
Universite de Toulouse	FRANCE	4%
Ministry of Earth Sciences (MoES) - India	INDIA	4%
South China Sea Institute of Oceanology, CAS	CHINA	4%
Institute of Oceanology, CAS	CHINA	4%
California Institute of Technology	USA	4%
NASA Jet Propulsion Laboratory (JPL)	USA	4%
University of Miami	USA	4%
Met Office	UK	4%
University of Tasmania	AUSTRALIA	3%
State Oceanic Administration	CHINA	3%
Atlantic Oceanographic & Meteorological Laboratory (AOML), NOAA	USA	3%
GEOMAR Helmholtz Center for Ocean Research Kiel	GERMANY	3%
Universite de Bretagne Occidentale	FRANCE	3%

Internationally and in Europe (outside France), the main institutions (more than 5% of the ARGO publications) identified from the author addresses are NOAA (11%), University of California System (11%) including San Diego (8%), Chinese Academy of Sciences (10%), Nasa (6%), WHOI (6%), University of Washington Seattle (6%), CSIRO (6%), JAMSTEC (5%), Helmholtz Association (5%), Ocean University of China (5%), NERC (5%).

The main French institutions (more than 5% of the ARGO publications) are CNRS (14% of the papers), IRD (11%), Sorbonne Université (9%), Ifremer (7%), MNHN (5%).

¹⁰ Only 3190 papers out of the 3265 ARGO publication set are taken into account in WoS-Incites.

3.3. Authors

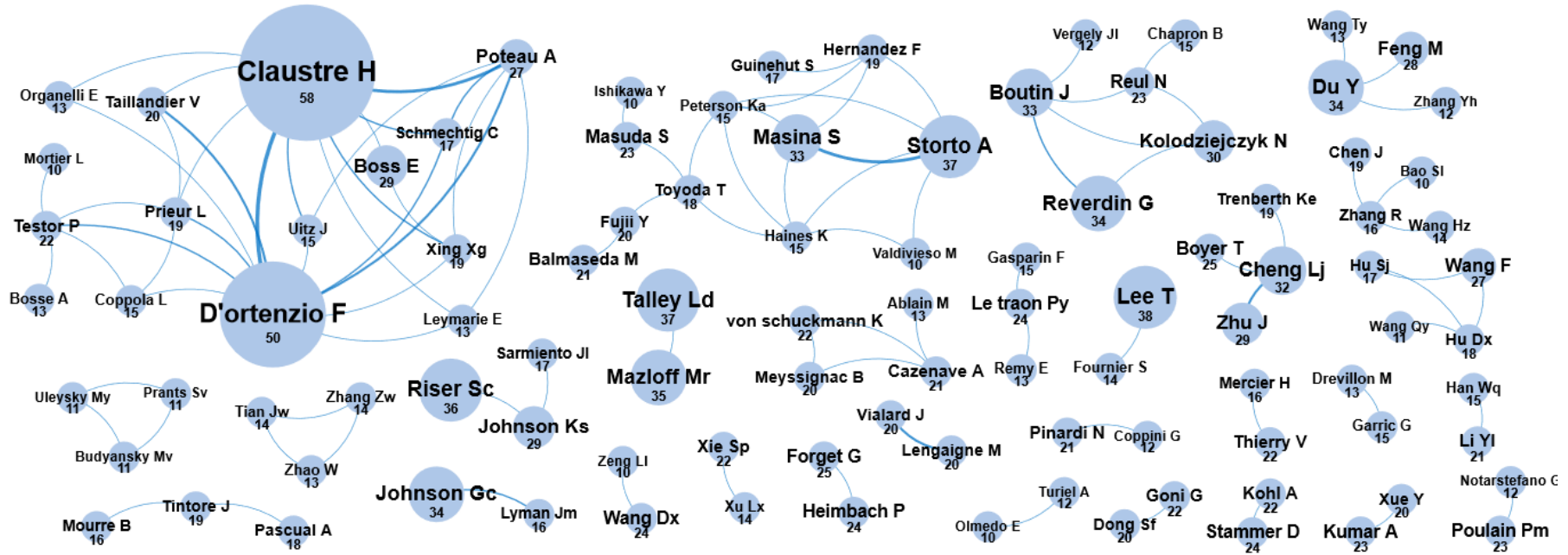
Top list

Top Authors (>=15 Papers)	No. Of Papers
Claustre H	58
D'ortenzio F	50
Lee T	38
Storto A	37
Talley Ld	37
Ravichandran M	36
Riser Sc	36
Mazloff Mr	35
Du Y	34
Johnson Gc	34
Reverdin G	34
Boutin J	33
Masina S	33
Cheng Lj	32
Gille St	30
Kolodziejczyk N	30
Boss E	29
Johnson Ks	29
Mcphaden Mj	29
Sprintall J	29
Zhu J	29
Feng M	28
Poteau A	27
Qiu B	27
Wang F	27
Yashayaev I	27
Boyer T	25
Forget G	25
Karstensen J	25
Martin Mj	25
Chai F	24
Heimbach P	24
Le traon Py	24
Stammer D	24
Wang Dx	24
Bhaskar Tvsu	23
Brandt P	23
Kumar A	23
Masuda S	23
Poulain Pm	23
Reul N	23

Sallee Jb	23
Subrahmanyam B	23
Goni G	22
Johns We	22
Kohl A	22
Testor P	22
Thierry V	22
von schuckmann K	22
Xie Sp	22
Yan Xh	22
Balmaseda M	21
Cazenave A	21
Cravatte S	21
Josey Sa	21
Li Yl	21
Lozier Ms	21
Lumpkin R	21
Pinardi N	21
Speich S	21
Dong Sf	20
Fujii Y	20
Lengaigne M	20
Meyssignac B	20
Roemmich D	20
Taillandier V	20
Vialard J	20
Xue Y	20
Chen J	19
Hernandez F	19
Kouketsu S	19
Oke Pr	19
Ponte Rm	19
Prieur L	19
Qu Td	19
Suga T	19
Tintore J	19
Trenberth Ke	19
Xing Xg	19
Zhang Y	19
Holliday Np	18
Hu Dx	18
Lin Xp	18
Maes C	18

Pascual A	18
Schmid C	18
Sutton Pjh	18
Toyoda T	18
Xue Hj	18
Zhang Rh	18
Chen G	17
Danabasoglu G	17
Gordon Al	17
Guinehut S	17
Hosoda S	17
Hu Sj	17
Meinen Cs	17
Sarmiento Jl	17
Schmechtig C	17
Wang J	17
Foltz Gr	16
Lyman Jm	16
Mercier H	16
Mourre B	16
Weller Ra	16
Zhang R	16
Chapron B	15
Church Ja	15
Coppola L	15
Cronin Mf	15
Garric G	15
Gasparin F	15
Haines K	15
Han Wq	15
Liu C	15
Liu Y	15
Madec G	15
Maze G	15
Mignot A	15
Moore Am	15
Palmer Md	15
Peterson Ka	15
Santoleri R	15
Tanajura Cas	15
Uitz J	15
Yu Ls	15
Zhang Ll	15

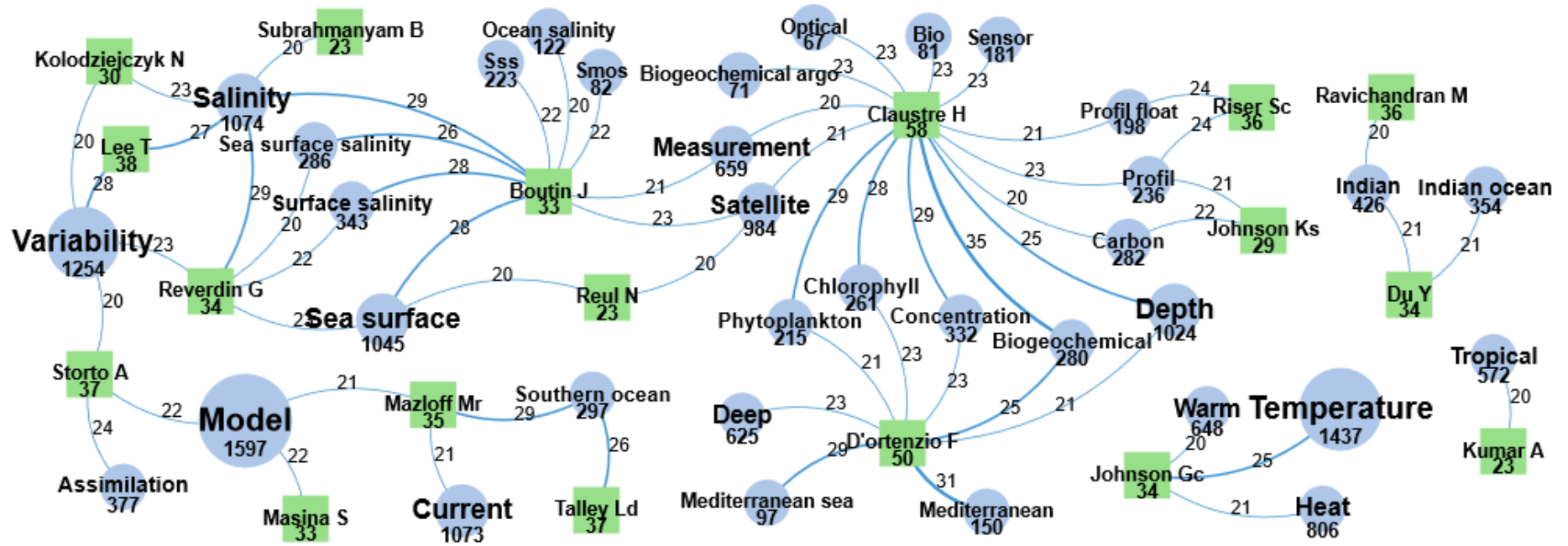
Network of main Authors
At least 10 co-publications



For example: D'ortenzio F wrote 50 ARGO papers and Claustre H wrote 58 papers with at least 10 co-publications with D'ortenzio F.

Network of main Authors/Terms

The related authors and terms (from title/abstract) appear in at least 20 publications in common. See the co-occurrence on the line connecting two entities.



4. Visibility and impact

4.1. Journals

The ARGO publications from 2014-2021 are published in 215 journals.

The top journals where are published more than 100 ARGO papers are *Journal Of Geophysical Research-Oceans* (21%), *Geophysical Research Letters* (7%), *Journal Of Physical Oceanography* (5%), *Journal Of Climate* (5%), *Climate Dynamics* (4%).

List

The table presents the main journals with their main Journal Impact Factor (JIF) Quartile and WoS subject categories. The Gold Open Access Journals are in orange colour.

Journal's Title	No. Of Papers	Highest JIF Quartile	WoS Categories
Journal Of Geophysical Research-Oceans	673	Q1	Oceanography
Geophysical Research Letters	236	Q1	Geosciences, Multidisciplinary
Journal Of Physical Oceanography	169	Q1	Oceanography
Journal Of Climate	148	Q1	Meteorology & Atmospheric Sciences
Climate Dynamics	124	Q1	Meteorology & Atmospheric Sciences
Frontiers In Marine Science	92	Q1	Marine & Freshwater Biology
Ocean Science	85	Q1	Meteorology & Atmospheric Sciences;Oceanography
Progress In Oceanography	79	Q1	Oceanography
Ocean Modelling	78	Q1	Meteorology & Atmospheric Sciences;Oceanography
Ocean Dynamics	76	Q3	Oceanography
Deep-Sea Research Part I- Oceanographic Research Papers	69	Q2	Oceanography
Scientific Reports	65	Q1	Multidisciplinary Sciences
Journal Of Atmospheric And Oceanic Technology	61	Q3	Engineering, Marine;Engineering, Ocean;Meteorology & Atmospheric Sciences
Journal Of Marine Systems	59	Q2	Geosciences, Multidisciplinary;Marine & Freshwater Biology;Oceanography
Acta Oceanologica Sinica	53	Q3	Oceanography
Journal Of Oceanography	52	Q3	Oceanography
Biogeosciences	47	Q1	Ecology;Geosciences, Multidisciplinary
Remote Sensing	47	Q1	Environmental Sciences;Geosciences, Multidisciplinary;Imaging Science & Photographic Technology;Remote Sensing
Global Biogeochemical Cycles	47	Q1	Environmental Sciences;Geosciences, Multidisciplinary;Meteorology & Atmospheric Sciences
Deep-Sea Research Part Ii-Topical Studies In Oceanography	47	Q2	Oceanography
Remote Sensing Of Environment	46	Q1	Environmental Sciences;Imaging Science & Photographic Technology;Remote Sensing

Nature Communications	36	Q1	Multidisciplinary Sciences
Journal Of Operational Oceanography	35	Q1	Meteorology & Atmospheric Sciences;Oceanography
Journal Of Advances In Modeling Earth Systems	29	Q1	Meteorology & Atmospheric Sciences
Nature Climate Change	27	Q1	Environmental Sciences;Environmental Studies;Meteorology & Atmospheric Sciences
Journal Of Oceanology And Limnology	24	Q3	Limnology;Oceanography
Bulletin Of The American Meteorological Society	21	Q1	Meteorology & Atmospheric Sciences
Continental Shelf Research	21	Q2	Oceanography
Advances In Atmospheric Sciences	21	Q2	Meteorology & Atmospheric Sciences
International Journal Of Remote Sensing	20	Q2	Imaging Science & Photographic Technology;Remote Sensing
Monthly Weather Review	19	Q2	Meteorology & Atmospheric Sciences
Geoscientific Model Development	18	Q1	Geosciences, Multidisciplinary
Quarterly Journal Of The Royal Meteorological Society	18	Q2	Meteorology & Atmospheric Sciences
Nature Geoscience	18	Q1	Geosciences, Multidisciplinary
Izvestiya Atmospheric And Oceanic Physics	18	Q4	Meteorology & Atmospheric Sciences;Oceanography
Oceanography	16	Q3	Oceanography
Science China-Earth Sciences	16	Q1	Geosciences, Multidisciplinary
Science Advances	15	Q1	Multidisciplinary Sciences
Journal Of Marine Science And Engineering	12	Q2	Engineering, Marine;Engineering, Ocean;Oceanography
Journal Of Geophysical Research-Atmospheres	12	Q2	Meteorology & Atmospheric Sciences
Chinese Journal Of Oceanology And Limnology	12	n/a	Limnology;Oceanography
Marine Geodesy	12	Q3	Geochemistry & Geophysics;Oceanography;Remote Sensing
Journal Of Ocean University Of China	12	Q4	Oceanography
Earth System Science Data	11	Q1	Geosciences, Multidisciplinary;Meteorology & Atmospheric Sciences
Oceanology	11	Q4	Oceanography
Dynamics Of Atmospheres And Oceans	11	Q3	Geochemistry & Geophysics;Meteorology & Atmospheric Sciences;Oceanography
Advances In Space Research	10	Q1	Astronomy & Astrophysics;Engineering, Aerospace;Geosciences, Multidisciplinary;Meteorology & Atmospheric Sciences

n/a: not applicable

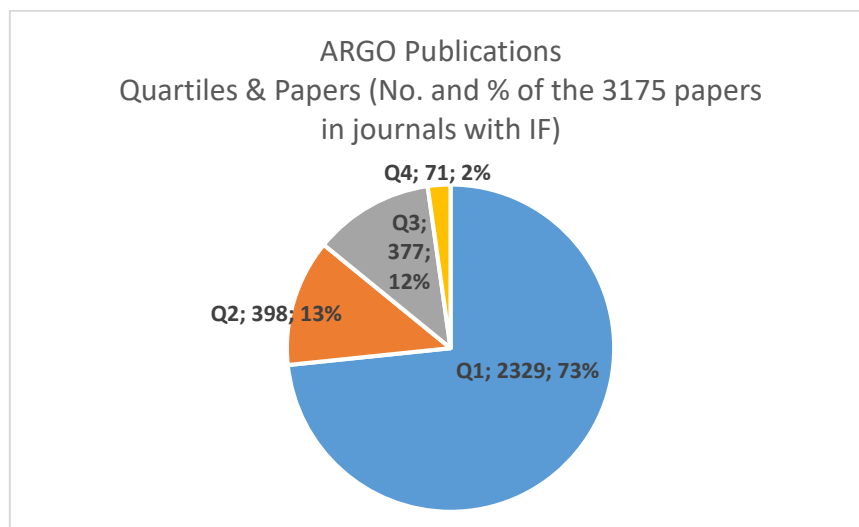
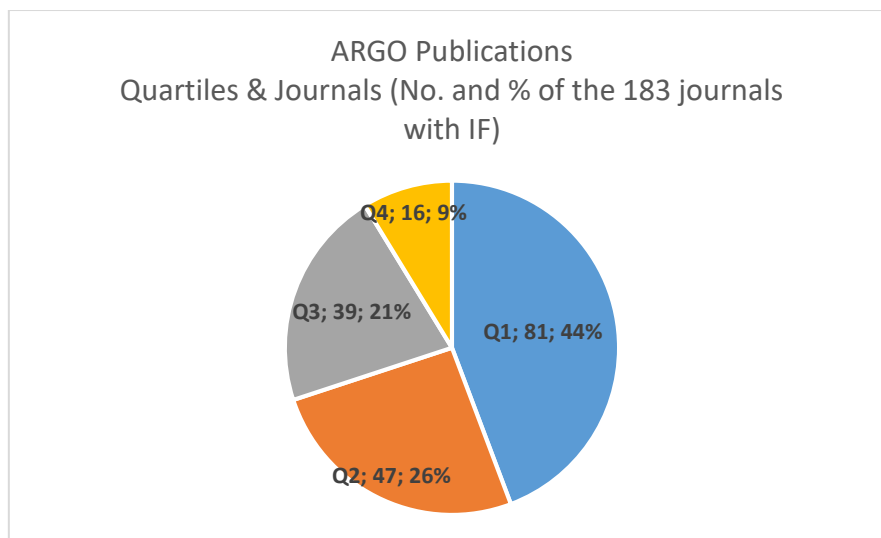
Journal Impact Factor Quartile

Data for the Journal Impact Factor Quartile (rank of a journal according to its Impact Factor in a given WoS subject category) are issued from WoS-InCites/JCR 2020¹¹.

Quartiles are attributed to a journal and by extension here to the publications published in that journal. When the journal is classified in several subject fields and in consequence has several attributed quartiles, only the highest quartile is here taken into account.

85% of the journals where ARGO papers are published get an Impact Factor (IF), which represent 3175 papers.

81 journals are ranked in the Top Quartile Q1 of IF, that is considered as high impact journal. It represents 44% of journals with IF and 73% of the publications (2329 papers).



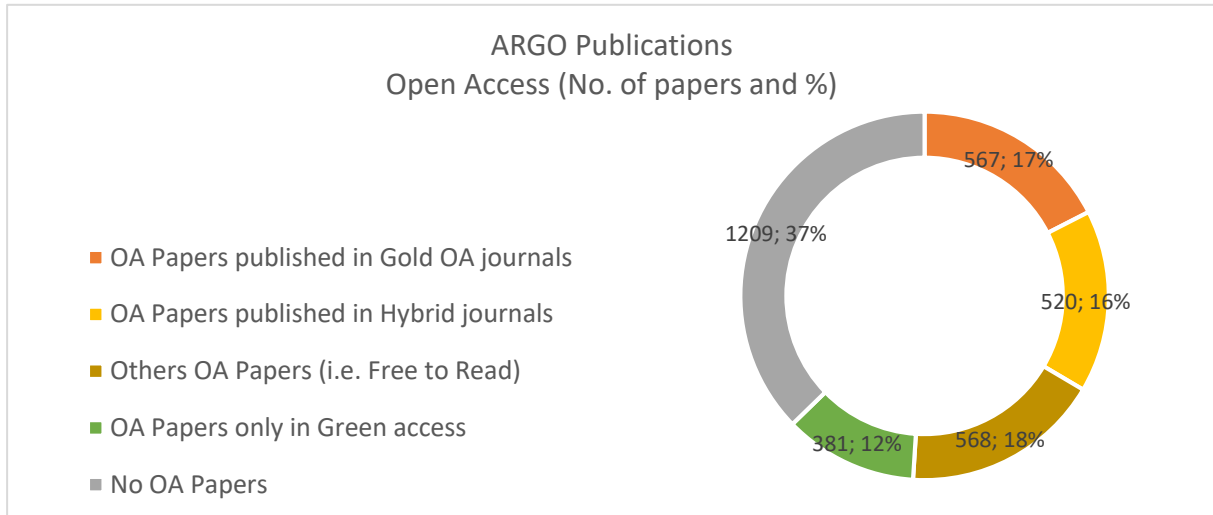
¹¹ Journal Citation Reports: <https://jcr.clarivate.com>

4.2. Open Access

A quarter of the journals where ARGO papers are published are on Gold Open Access.

The main ones are *Frontiers in Marine Science* (3%), *Ocean Science* (3%) and *Scientific Reports* (2%).

63% of the ARGO publications are available on all the different Open Access (OA) routes¹²: 17% in Gold OA journals, 16% in hybrid journals and 30% are Open Access via another route (including Green OA publications which have been archived by the author in an open repository, published or manuscript version).



¹² Data come from WoS and based on unpaywall; <http://webofscience.help.clarivate.com/en-us/Content/open-access.html>

4.3. Citations

All citation data presented here were obtained from WoS on 11 March 2022

The publication set received a total of 56775 citations in WoS in March 2022.

The average value is around 17 citations per paper.

90% of the papers are cited at least once in WoS.

The median is 8 citations, that means that 50% of the papers in the set get 8 or less citations: 10% are uncited papers; 8% get one citation; 6% get 2 citations.

The mostly cited paper (published in 2017) received 917 citations.

Half of the total citations are received by 10% of the most cited papers, that represent the 342 papers with more than 38 citations each.

The [ten mostly cited papers](#) received more than 250 citations each and accounted for 6% of citations.

	Times cited
Total times cited (on 2022/22/03)	56775
Total times cited from 2014 to 2021	53317
Average citations per year (2014-2021)	6910
Average citations per cited paper (2934)	19
Average citations per paper	17
Median	8
The mostly cited paper (published in 2017)	917

Impact citation indicators

Top 10% et Top 1%

These indicators proposed in WoS-InCites are based on the number of citations obtained by one publication and its ranking in the top 10% and 1% most cited papers in a given research field (WoS-InCites category classification), a given year and in a given publication type.

By default, the world average is 10 (Top 10%) and 1 (Top 1%).

81 ARGO papers are in the Top 1% of the most cited articles and 16% (528 papers) are in the Top 10% of the most cited papers.

Highly Cited paper

Data come from Essential Science Indicators¹³ and from the Web Of Science Core Collection (WoS).



As described in WoS, as of November/December 2021, these papers received enough citations to be placed in the top 1% of an academic field (here, mainly in Geosciences and a few in Plant & Animal Science and in Environment/Ecology) based on a highly cited threshold for the field and publication year.

77 papers of the ARGO publication set are designated *Highly Cited Paper*¹⁴ on March 2022. Please see the list at [Appendix I](#).

¹³ <https://esi.clarivate.com/>

¹⁴ https://images.webofknowledge.com/images/help/WOS/hp_highly_cited_papers.html

Category Normalized Citation Impact (CNCI)

As defined in WoS-Incites: *The Category Normalized Citation Impact (CNCI) of a document is calculated by dividing the actual count of citing items by the expected citation rate for documents with the same document type, year of publication and subject area. A CNCI value of 2 is considered twice world average. The world reference value is by default 1. The values for the current year may fluctuate and not be significant.*

Ten papers with the highest CNCI values (ranking by CNCI value)						
Title	Source	Year	Type	No. of Citations	CNCI	Impact Citation Indicators
Extended Reconstructed Sea Surface Temperature, Version 5 (ERSSTv5): Upgrades, Validations, and Intercomparisons	Journal Of Climate	2017	Article	865	49	Top 1%
How fast are the oceans warming?	Science	2019	Editorial Material	187	34	Top 1%
Causes and impacts of the 2014 warm anomaly in the NE Pacific	Geophysical Research Letters	2015	Article	575	27	Top 1%
A sea change in our view of overturning in the subpolar North Atlantic	Science	2019	Article	157	26	Top 1%
Improvements in the GISTEMP Uncertainty Model	Journal Of Geophysical Research-Atmospheres	2019	Article	214	22	Top 1%
Clouds and the Earth's Radiant Energy System (CERES) Energy Balanced and Filled (EBAF) Top-of-Atmosphere (TOA) Edition-4.0 Data Product	Journal Of Climate	2018	Article	271	19	Top 1%
Upper Ocean Temperatures Hit Record High in 2020	Advances In Atmospheric Sciences	2021	Editorial Material	12	18	Top 1%
Evaluation of CMIP6 DECK Experiments With CNRM-CM6-1	Journal Of Advances In Modeling Earth Systems	2019	Article	165	17	Top 1%
Major role of particle fragmentation in regulating biological sequestration of CO ₂ by the oceans	Science	2020	Article	56	17	Top 1%
Global Seasonal forecast system version 5 (GloSea5): a high-resolution seasonal forecast system	Quarterly Journal Of The Royal Meteorological Society	2015	Article	393	16	Top 1%

In grey colour, papers also ranked in the [Top 10 mostly cited papers](#).

Top ten mostly cited Papers

The ten most cited papers received over 250 citations each and accounted for 6% of all citations.

Top ten mostly cited papers (ranking by times cited)						
Title	Source	Year	Type	No. of Citations	CNCI	Impact Citation Indicators
Extended Reconstructed Sea Surface Temperature, Version 5 (ERSSTv5): Upgrades, Validations, and Intercomparisons	Journal Of Climate	2017	Article	917	49	Top 1%; Highest CNCI
Causes and impacts of the 2014 warm anomaly in the NE Pacific	Geophysical Research Letters	2015	Article	586	27	Top 1%
Global Seasonal forecast system version 5 (GloSea5): a high-resolution seasonal forecast system	Quarterly Journal Of The Royal Meteorological Society	2015	Article	401	16	Top 1%
Clouds and the Earth's Radiant Energy System (CERES) Energy Balanced and Filled (EBAF) Top-of-Atmosphere (TOA) Edition-4.0 Data Product	Journal Of Climate	2018	Article	288	19	Top 1%
Global Patterns of Diapycnal Mixing from Measurements of the Turbulent Dissipation Rate	Journal Of Physical Oceanography	2014	Article	277	14	Top 1%
Observations, inferences, and mechanisms of the Atlantic Meridional Overturning Circulation: A review	Reviews Of Geophysics	2016	Review	275	5	Top 10%
ECCO version 4: an integrated framework for non-linear inverse modeling and global ocean state estimation	Geoscientific Model Development	2015	Article	265	12	Top 1%
Fifteen years of ocean observations with the global ARGO array	Nature Climate Change	2016	Review	263	4	Top 10%
STATE OF THE CLIMATE IN 2013	Bulletin Of The American Meteorological Society	2014	Article	261	9	Top 1%
Unabated planetary warming and its ocean structure since 2006	Nature Climate Change	2015	Article	260	11	Top 1%

Appendix I - Highly Cited Papers

77 ARGO papers are designed *Highly Cited Papers* in March 2022 from WoS & Essential Science Indicators. Papers are listed by descending number of citations.

1. 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: 935

2. 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: 593

3. 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: 402

4. 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: 291

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: 280

6. 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: 277

7. 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: 265

8. 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: 265

9. 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: 262

10. 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: 261

11. 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: 260

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13. 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: 250

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Multidecadal warming of Antarctic waters.

Science. 2014;346(6214):1227-31.

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WOS:000346189000057.

Times Cited: 247

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WOS:000340981000014.

Times Cited: 235

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Measuring the Atlantic Meridional Overturning Circulation at 26 degrees N.

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Times Cited: 231

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Reconciling controversies about the 'global warming hiatus'.

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Times Cited: 230

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Improvements in the GISTEMP Uncertainty Model.

J Geophys Res-Atmos. 2019;124(12):6307-26.

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WOS:000477800000025.

Times Cited: 226

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Appendix II - Tools and methodology

Tools

Web Of Science (WoS) - InCites - Essential Science Indicators (ESI) from Clarivate Analytics¹⁵: bibliographic (WoS-Core collection) and bibliometric (WoS-Incites and ESI) database in the scientific field; it allows the identification of scientific documents published in peer-reviewed journals and in international conference proceedings, as well as the number of citations of these publications, the Impact Factor and Quartile of the journals and other bibliometric data including citation indicators.

Intellixir (IP Business Intelligence, Orbit Questel)¹⁶: software for analysing scientific literature. It allows the mapping and statistical processing of a set of bibliographic references extracted from databases such as the Web of Science. The analysis is based on occurrences and co-occurrences (network, cluster) in the number of papers.

The data are compiled and graphically formatted in Microsoft® Excel 2016. Several graphical representations (network, cluster, cloud tag) come from the Intellixir tool.

Methodology

1-Bibliographic data

Megan Scanderbeg (ARGO Research Associate at Scripps Institution of Oceanography, University of California San Diego) keeps up to date a bibliography¹⁷ of papers published on ARGO floats and their data.

In March 2022, she sent me a file with the latest set of DOI for this bibliography. Some typographic characters of DOI need to be modified to be retrieved from the Web Of Science (for example %28 has to be replaced by a parenthesis).

Only the papers published from 2014 to 2021 that have a DOI provided by Megan Scanderbeg and that are indexed and retrieved in March 2022 from the Web Of Science (WoS) have been taken into account in this study.

The *Final Publication Year* field has been used in WoS to limit the time range.

The ARGO paper set analysed in this document includes 3265 papers. That is 992 more papers than the previous study concerning the papers published from 2014-2019¹⁸

See [Appendix III - Query in WoS](#).

	No. of items
DOI (list provided by Megan Scanderbeg)	4705
DOI retrieved in WoS	4564
Papers published from 2014-2021 (Final Publication Year)	3265

¹⁵ <http://apps.webofknowledge.com>; <https://incites.clarivPte.com>; <https://esi.clarivate.com>

¹⁶ <https://www.questel.com/business-intelligence-software/orbit-intellixir/>

¹⁷ <https://argo.ucsd.edu/outreach/publications/bibliography/>

¹⁸ Chaussonot Pascaline (2020). Bibliometric analysis of the Argo floats 2014-2019 publications. <https://doi.org/10.13155/77281>

2- Bibliometric data and processing

The bibliometric data come from the WoS database and other Clarivate products as InCites and Essential Science Indicators (ESI).

The graphs and figures (such as network and cluster representations) are obtained from Orbit Intellixir Software (Questel, IP Business Intelligence) and Excel (Microsoft).

The analysis is mainly based on the number of publications (occurrence) and co-publications (co-occurrence).

- **Intellixir** allows automated **extraction of terms from the title and abstract** of bibliographic references and their **keywords**. The data from the WoS include, in addition to the author's keywords, keywords added by the publisher for indexing purposes and which are derived from an algorithm based on the titles of the references cited in the publication (*Keyword plus*¹⁹).

Note concerning terms extracted: the data are raw with no lexical combination. A grouping of terms could be carried out in collaboration with the applicant of the study in order to better reflect the different themes covered by all the publications.

- **In the intellixir tool, countries** authoring the publications are identified from the affiliations (i.e. addresses) of the authors as entered and indexed in the bibliographic database (here WoS).

- **The research fields as WoS categories, ESI classification and Citations Topics, the institutions data and all data concerning the journals and the citation indicators,** are taken from the **WoS** (queried in March 2022).

Note concerning institution data: the identification may be incomplete. The various ways of writing down affiliations, especially in organizations with several entities (such as in France the Joint Research Units with joint trustees) can lead to over- or under- representation of some entities, when they are mentioned either fully or partially.

The treatment process is semi-automatic: despite verifications, some figures might present some anomalies. Many bibliometric data come from the commercial database Web of Science which has its own processing algorithms.

The data presented in this document should be considered as an order of magnitude rather than exact numbers.

The English was partly translated from French with the online tool <http://www.DeepL.com/Translator> (free version) and was proofread by Agnès VITEL TYSON (Ifremer, IST).

¹⁹ [http://images.webofknowledge.com/WOKRS532JR5/help/WOS/hp_full_record.html#dsy1028-TRS keywords plus](http://images.webofknowledge.com/WOKRS532JR5/help/WOS/hp_full_record.html#dsy1028-TRS_keywords_plus)

Appendix III - Query in WoS

All these 4705 DOIs (list from Megan Scanderbeg) were searched in the Web Of Science Core Collection database (WoS) and 4564 papers were retrieved in March 2022.

For the time range 2014-2021, 3265 papers are retrieved and are analyzed in this study (see the [Accession number in WoS](#)).

DOI query

DO=("10.1002/2013gb004781" OR "10.1002/2013gl057752" OR "10.1002/2013gl057797" OR "10.1002/2013gl057887" OR "10.1002/2013gl058125" OR "10.1002/2013gl058173" OR "10.1002/2013gl058193" OR "10.1002/2013gl058304" OR "10.1002/2013gl058464" OR "10.1002/2013gl059004" OR "10.1002/2013jc008899" OR "10.1002/2013jc008908" OR "10.1002/2013jc008958" OR "10.1002/2013jc008973" OR "10.1002/2013jc008983" OR "10.1002/2013jc008994" OR "10.1002/2013jc009024" OR "10.1002/2013jc009027" OR "10.1002/2013jc009067" OR "10.1002/2013jc009117" OR "10.1002/2013jc009187" OR "10.1002/2013jc009228" OR "10.1002/2013jc009231" OR "10.1002/2013jc009235" 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 "10.1002/2013jc009388" OR "10.1002/2013jc009422" OR "10.1002/2013jc009432" OR "10.1002/2013jc009438" OR "10.1002/2013jc009450" OR "10.1002/2013jc009470" OR "10.1002/2013jc009535" OR "10.1002/2013jc009543" OR 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