# 2018 Scientific Ocean Drilling Bibliographic Database Report

Covering records related to the Deep Sea Drilling Project,
Ocean Drilling Program, Integrated Ocean Drilling Program,
and International Ocean Discovery Program
from 1969 through June 2018

Produced by

International Ocean Discovery Program

Publication Services

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# Introduction

This Scientific Ocean Drilling Bibliographic Database Report demonstrates the impact of Program science through publications from the Deep Sea Drilling Project (DSDP), Ocean Drilling Program (ODP), Integrated Ocean Drilling Program, and International Ocean Discovery Program (IODP). The number of bibliographic records indexed by the American Geosciences Institute (AGI) in the Scientific Ocean Drilling Bibliographic Database (previously named the Ocean Drilling Citation Database) as of June 2018, "cited-by" statistics obtained through CrossRef and Google Scholar in July 2018, and links to Altmetric scores for high-impact papers are presented in tables and charts that demonstrate trends for both authorship and usage.

# Report categories

Data collected for the annual Scientific Ocean Drilling Bibliographic Database Report are divided into two main categories:

- **Program** records: publications produced and published by DSDP, ODP, the Integrated Ocean Drilling Program, or IODP. These records include but are not limited to the *Initial Reports of the Deep Sea Drilling Project*; the *Initial Reports* and *Scientific Results* volumes of ODP; the *Proceedings* volumes of the Integrated Ocean Drilling Program and IODP, the report and technical note series from each Program, and *Scientific Drilling*.
- **Non-Program** records: Program-related scientific research published in the open literature.

Non-Program publications are further categorized into three groups:

- **Serial** records: drawn from any periodically produced analytic or monographic journal or report, especially those that are peer reviewed, but may also include reports from universities, organizations, or government entities (e.g., *Open-File Reports—U.S. Geological Survey*).
- **Theses and dissertations**: Bachelor's and Master's theses and Ph.D. dissertations.
- **Miscellaneous** records: books, reports, monographs, maps, abstracts, posters, newsletters, videos, and CD-ROM/DVD-ROMs.

# Overview

The Scientific Ocean Drilling Bibliographic Database is a subset of AGI's GeoRef database. To generate the GeoRef database, AGI indexes and records bibliographic data from approximately 3,800 domestic and international publications. AGI also has arrangements to acquire metadata with many publishers, including Springer, Elsevier, the American Association for the Advancement of Science, Copernicus,

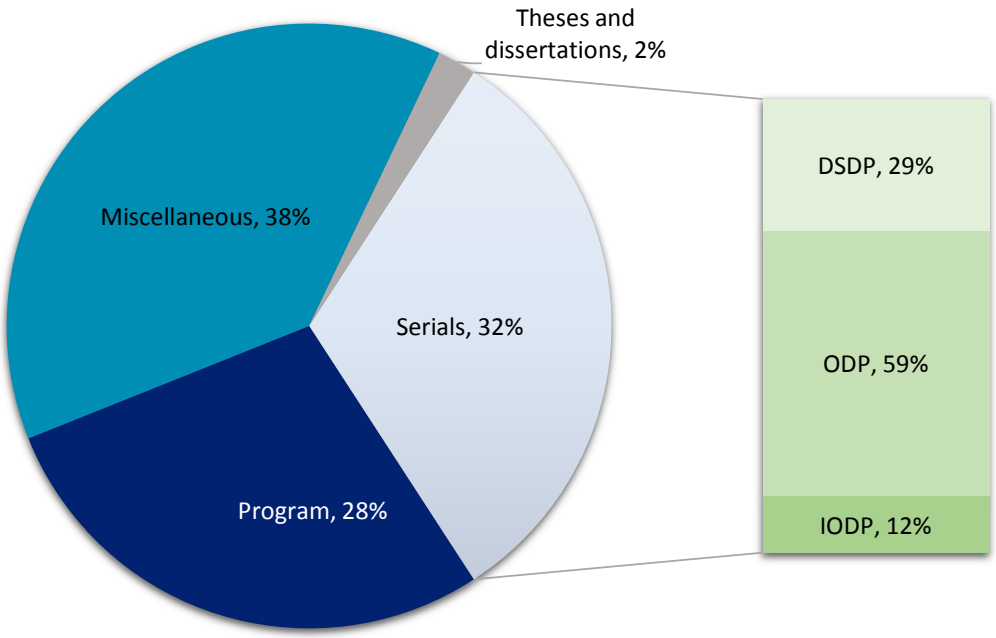
Wiley/Blackwell, the American Geophysical Union, and most of the Geoscience World publishers. In addition, IODP Publication Services notifies AGI when Program publications are released.

AGI produces the Scientific Ocean Drilling Bibliographic Database in collaboration with IODP. AGI uses a series of keywords to extract bibliographic records related to Program research from the GeoRef database. The database resides on the AGI server (http://iodp.americangeosciences.org/vufind) and is updated weekly. Metadata associated with each record can be saved to a personalized list, texted or emailed, or exported into common bibliographic software. The database also generates references in several formats.

Depending on the source from which AGI acquires its information, there may be a significant delay after publication before a record is included in the GeoRef database and later in the Scientific Ocean Drilling Bibliographic Database. There is no guarantee that all publication venues for Program research are included in GeoRef or the Scientific Ocean Drilling Bibliographic Database, but scientific publications throughout the world are represented.

As of June 2018, the database contains 35,010 records containing metadata from publications published from 1969 to 2018 (beginning of DSDP to present), including ~71% non-Program records and ~29% Program records (Figure 1). Since the 2017 report, 1,423 records have been added to the database. Figure 1 highlights the ~2% theses and dissertations (total = ~700) in the database, illustrating early career scientific research relating to the Program, and details serial publications related to IODP and its

Figure 1. Overview of records in the Scientific Ocean Drilling Bibliographic Database (total = 35,010).



predecessor programs. The IODP portion of the serial entries includes both Integrated Ocean Drilling Program and International Ocean Discovery Program records.

Figures 2 and 3 show serial publications by all authors from all countries with the number of contributions on a logarithmic scale. Figure 2 shows all Program publications (1969–2018); Figure 3 shows publications from the Integrated Ocean Drilling Program and IODP only (2003–2018). All maps in this report were generated using the Science of Science (Sci2) Tool (http://sci2.cns.iu.edu).

Figure 2. Serials by authors from all countries (1969–2018).

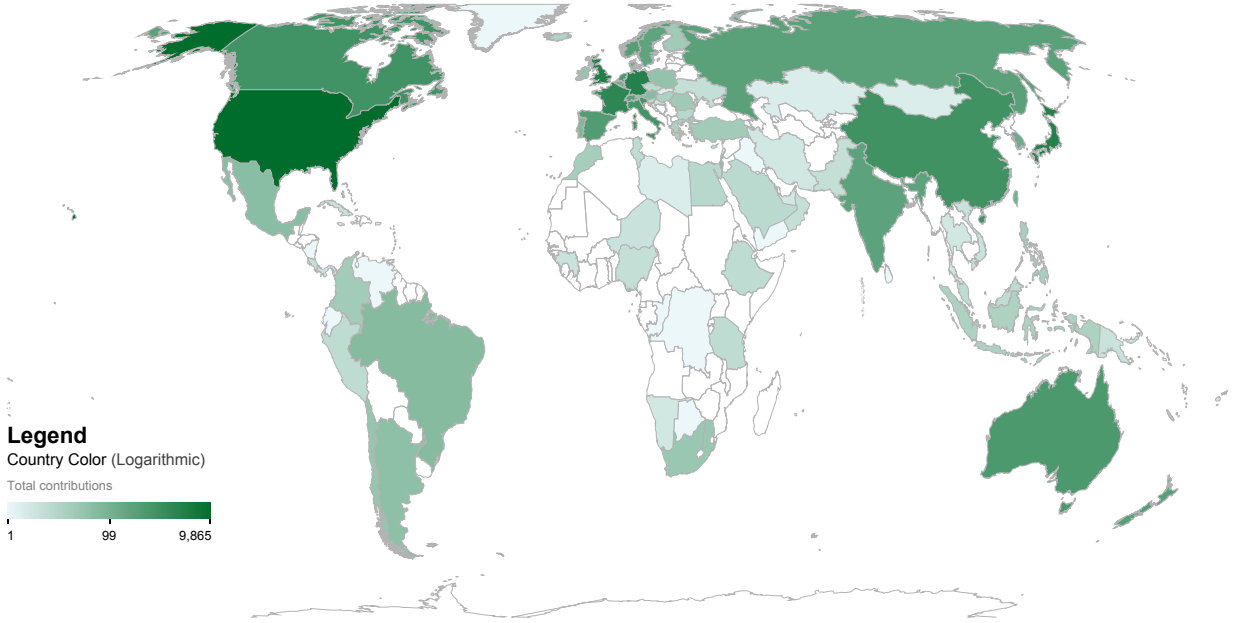
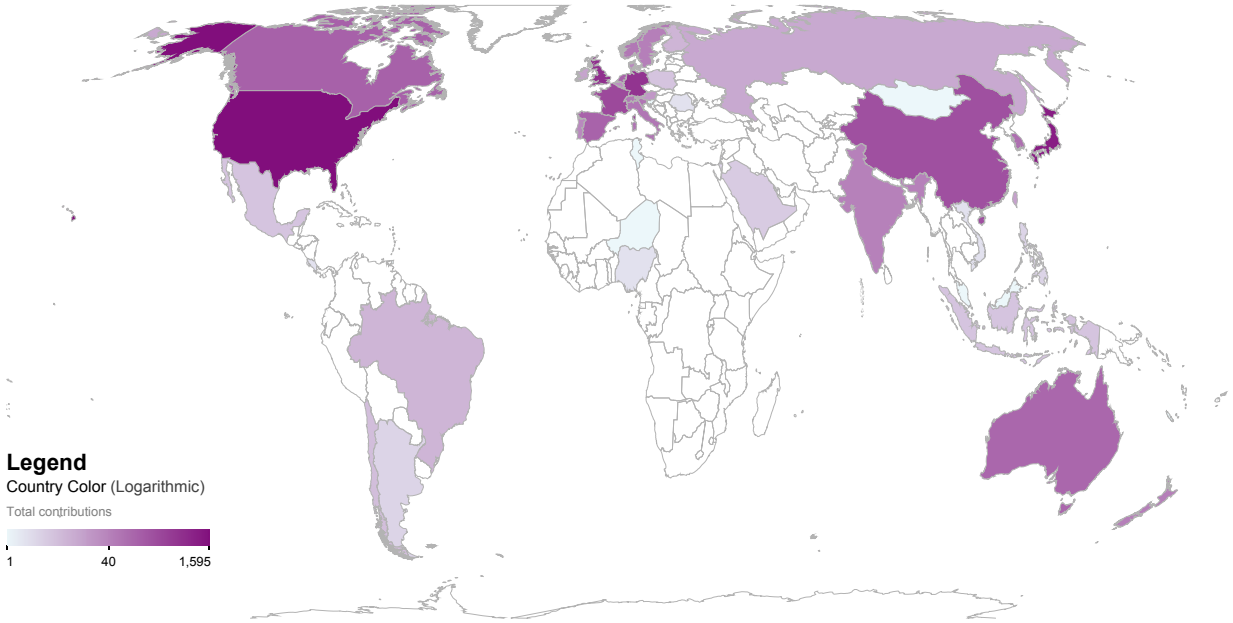


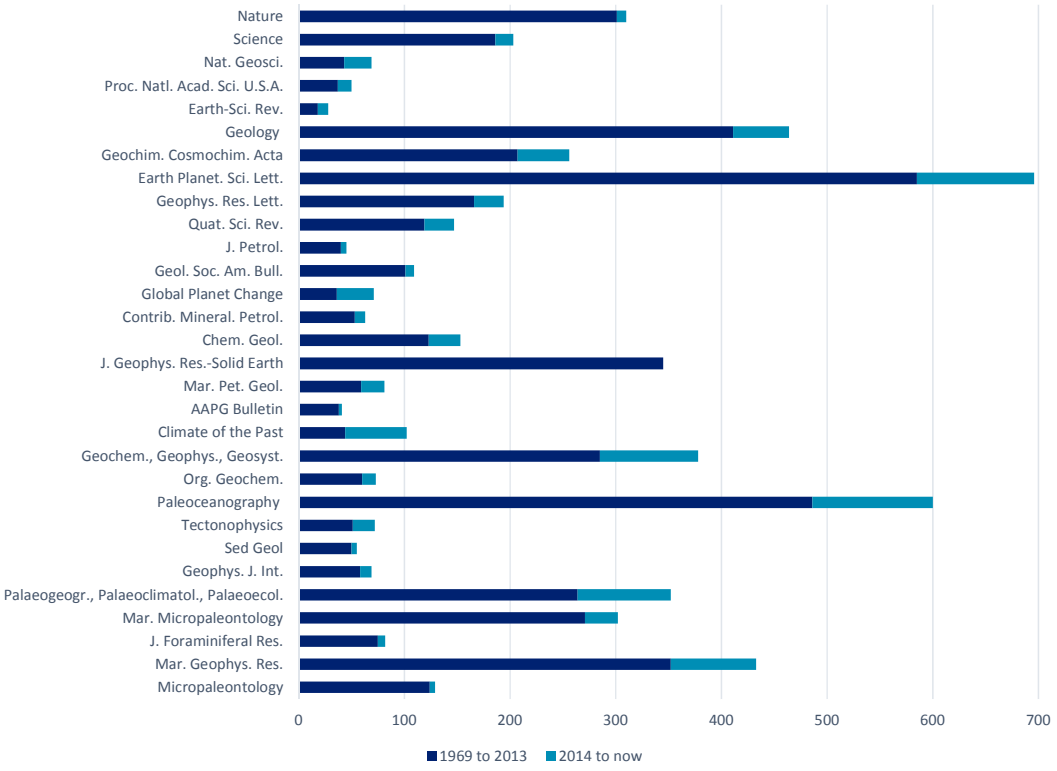

Figure 3. Serials by authors from all countries (2003–2018).



## Publications from top-ranking peer-reviewed journals

Database records indicate that 11,073 Program-related papers have been published in non-Program, primarily peer-reviewed serial publications. A total of 5,972 of these research papers (more than 50% of the serial publications in the database) were published in 30 highly rated peer-reviewed journals, based on Thompson/Reuters ISI impact factor (Figure 4). Starting in 1996, ODP encouraged scientists to fulfill their ODP publication obligation by publishing postcruise research results in English language peer-reviewed journals. Approximately 71% of the papers illustrated in Figure 4 are Program-related research results that have been published in top-rated journals since 1996, the year the publication policy change took effect. Figure 4 also highlights papers that have been published in top-rated journals since 2014 and the start of IODP. Table 1 presents the data behind this graph, including the impact factor for each journal.

Figure 4. Highly rated peer-reviewed serials publishing Program-related expedition research results (1969–2018).




## Publications by authors from current member countries

Of the 11,073 Program-related papers published in serial publications, 9,668 (87%) are first-authored by scientists from current IODP member countries (Table 2). First authors are those who are listed first in the authorship of a paper. Contributing authors are those listed after the first authors. In Table 2, “Serial

Table 1. Highly rated peer-reviewed serials publishing Program-related expedition research results (1969–2018). Thompson/Reuters impact factor is given for each title.

| Journal | T/R Impact Factor (2017) | 1969 to 2013 | 2014 to present | Total |
|---|---|---|---|---|
| Nature | 41.577 | 301 | 9 | 310 |
| Science | 41.058 | 186 | 17 | 203 |
| Nature Geoscience | 14.391 | 43 | 26 | 69 |
| Proceedings of the National Academy of Sciences of the U.S.A. | 9.504 | 37 | 13 | 50 |
| Earth-Science Reviews | 7.491 | 18 | 10 | 28 |
| Geology | 5.073 | 411 | 53 | 464 |
| Geochimica et Cosmochimica Acta | 4.690 | 207 | 49 | 256 |
| Earth and Planetary Science Letters | 4.581 | 585 | 111 | 696 |
| Geophysical Research Letters | 4.339 | 166 | 28 | 194 |
| Quaternary Science Reviews | 4.334 | 119 | 28 | 147 |
| Journal of Petrology | 4.100 | 40 | 5 | 45 |
| Geological Society of America Bulletin | 4.039 | 101 | 8 | 109 |
| Global and Planetary Change | 3.982 | 36 | 35 | 71 |
| Contributions to Mineralogy and Petrology | 3.626 | 53 | 10 | 63 |
| Chemical Geology | 3.570 | 123 | 30 | 153 |
| Journal of Geophysical Research—Solid Earth | 3.482 | 345 | 0 | 345 |
| Marine and Petroleum Geology | 3.281 | 59 | 22 | 81 |
| AAPG Bulletin | 3.208 | 38 | 3 | 41 |
| Climate of the Past | 3.174 | 44 | 58 | 102 |
| Geochemistry, Geophysics, Geosystems | 2.981 | 285 | 93 | 378 |
| Organic Geochemistry | 2.810 | 60 | 13 | 73 |
| Paleoceanography | 2.718 | 486 | 114 | 600 |
| Tectonophysics | 2.686 | 51 | 21 | 72 |
| Sedimentary Geology | 2.575 | 50 | 5 | 55 |
| Geophysical Journal International | 2.528 | 58 | 11 | 69 |
| Palaeogeography, Palaeoclimatology, Palaeoecology | 2.375 | 264 | 88 | 352 |
| Marine Micropaleontology | 1.874 | 271 | 31 | 302 |
| Journal of Foraminiferal Research | 1.511 | 75 | 7 | 82 |
| Marine Geophysical Researches | 0.913 | 352 | 81 | 433 |
| Micropaleontology | 0.877 | 124 | 5 | 129 |

contributions by country" shows the number of serial papers for which each country's researchers are listed as contributing authors. The country is counted once per paper regardless of the number of authors from that country. "Serial contributions by author" shows the number of times researchers from each country are listed as contributing authors, including multiple contributors from a single country per paper. The column "Total contributions" shows the total number of times researchers from each country are included in the authorship of peer-reviewed serials, including first and contributing authors and multiple contributors from a single country per paper.

Table 2. Serial publication authorship by first author, contributing country, contributing authors, and total contributions (1969–2018).

| Member country or consortia | First authors of serials | Serial contributions by country | Serial contributions by author | Total contributions |
|---|---|---|---|---|
| Australia/New Zealand Consortium | 310 | 453 | 558 | 868 |
| Australia | 180 | 300 | 347 | 527 |
| New Zealand | 130 | 153 | 211 | 341 |
| Brazil | 23 | 30 | 32 | 55 |
| China | 420 | 326 | 427 | 847 |
| ECORD | 4,073 | 5,239 | 6,691 | 10,764 |
| Austria | 15 | 38 | 39 | 54 |
| Canada | 322 | 409 | 489 | 811 |
| Denmark | 52 | 103 | 115 | 167 |
| Finland | 8 | 10 | 11 | 19 |
| France | 608 | 773 | 1,078 | 1,686 |
| Germany | 994 | 1,156 | 1,502 | 2,496 |
| Ireland | 5 | 22 | 24 | 29 |
| Italy | 278 | 345 | 453 | 731 |
| Netherlands | 222 | 259 | 278 | 500 |
| Norway | 140 | 187 | 217 | 357 |
| Portugal | 15 | 41 | 51 | 66 |
| Spain | 142 | 234 | 290 | 432 |
| Sweden | 104 | 134 | 139 | 243 |
| Switzerland | 133 | 198 | 214 | 347 |
| United Kingdom | 1,035 | 1,330 | 1,791 | 2,826 |
| India | 173 | 95 | 106 | 279 |
| Japan | 696 | 817 | 1,829 | 2,525 |
| Republic of Korea | 50 | 81 | 93 | 143 |
| United States | 3,923 | 3,253 | 5,942 | 9,865 |
| **Total papers:** | **9,668** | | | **25,346** |

Table 3 expands on the first author column in the table above to show the breakdown of first author country or consortium affiliation for all non-Program publication types in the database. Note that theses and dissertations are underreported to AGI and are not fully represented.

Figures 5 and 6 show serial publications with all authors from member countries with the number of contributions on a logarithmic scale. Figure 5 shows all Program publications (1969–2018); Figure 6 shows publications from the Integrated Ocean Drilling Program and IODP only (2003–2018).

Table 3. First-authored non-Program publications by type and current funding consortium (1969–2018).

| Member country or consortia | Serials | Misc. | Theses and dissertations | | |
|---|---|---|---|---|---|
| | | | B.S. | M.S. | Ph.D. |
| Australia/New Zealand Consortium | 310 | 417 | 4 | 6 | 3 |
| Brazil | 23 | 25 | 0 | 0 | 0 |
| China | 420 | 114 | 0 | 0 | 0 |
| ECORD | 4,073 | 4,514 | 14 | 17 | 104 |
| India | 173 | 46 | 0 | 3 | 3 |
| Japan | 696 | 747 | 0 | 0 | 0 |
| Republic of Korea | 50 | 53 | 0 | 0 | 0 |
| United States | 3,923 | 6,413 | 26 | 227 | 310 |
| **Totals:** | **9,668** | **12,329** | **44** | **253** | **420** |

Figure 5. Serials by authors from member countries (1969–2018).

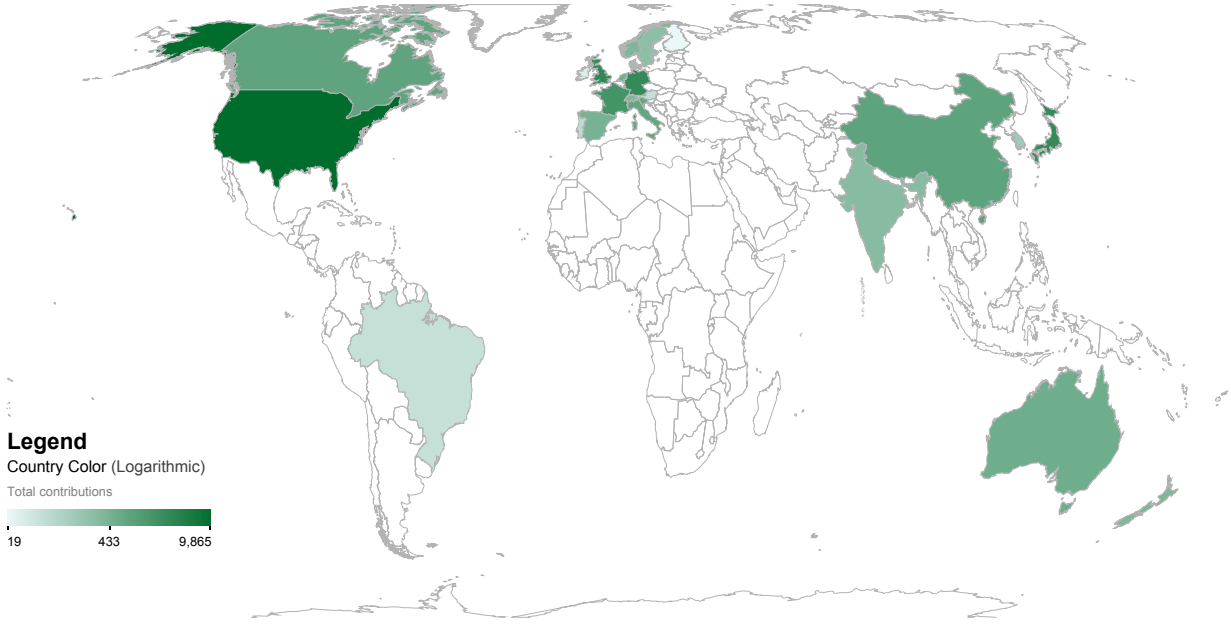
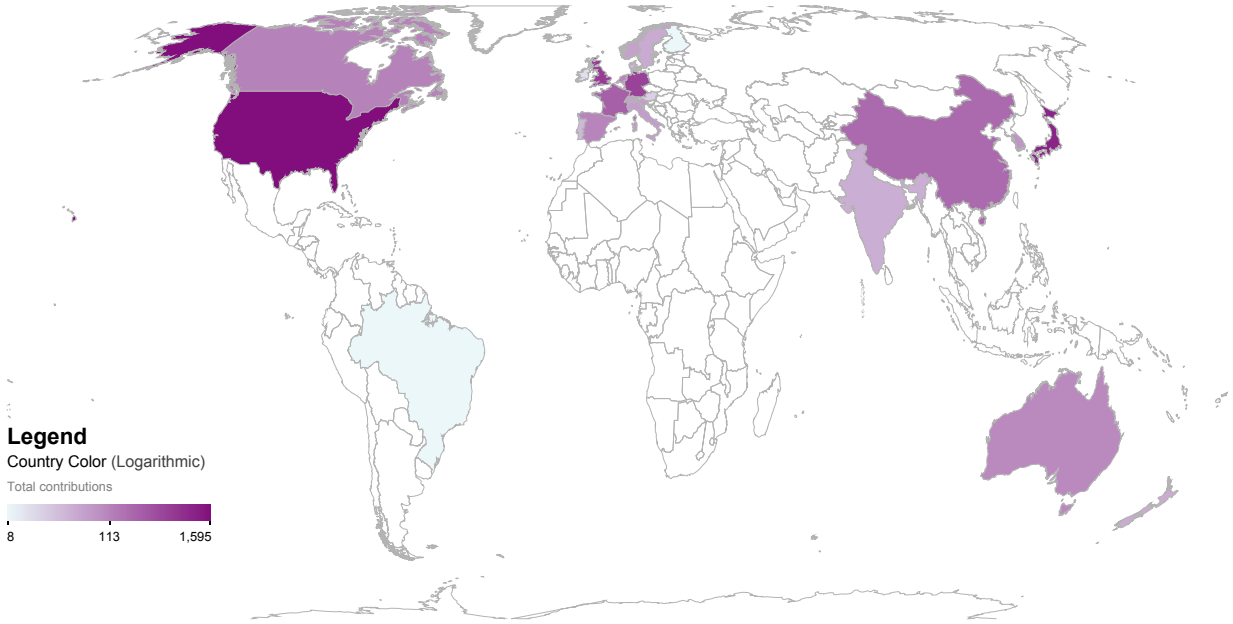


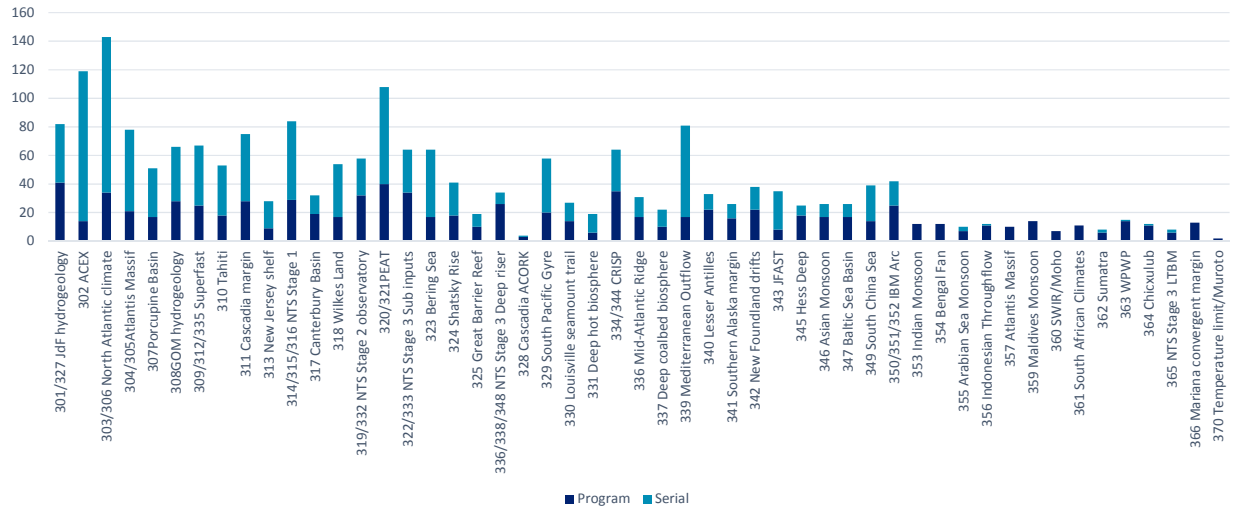
Figure 6. Serials by authors from member countries (2003–2018).




# Publications by expedition

Figure 7 shows Program (Expedition Reports, post-expedition research data reports, and *Scientific Drilling* papers) and non-Program serial publications for all completed Integrated Ocean Drilling Program and IODP expeditions whose Expedition Reports volumes published before the end of June 2018 (Expeditions 301–366 and 370). Note that the publication tail for postcruise expedition research in both Program and serial publications extends for several years after the end of the expedition; hence, more recent expeditions have fewer publications credited to them, as illustrated in the figure.

Figure 7. Publication records for Expeditions 301–366 and 370 (2003–2018).



## Publications by Science Plan theme

Figure 8 shows Program and non-Program (all types) records related to Integrated Ocean Drilling Program expeditions (Expeditions 301–348) and sorted by Integrated Ocean Drilling Program Initial Science Plan themes (2003–2013). Initial Science Plan themes are tied to the primary objectives of each expedition as listed in *Developments in Marine Geology 7: Earth and Life Processes Discovered from Subseafloor Environments (A Decade of Science Achieved by the Integrated Ocean Drilling Program [IODP])*.

- Deep Biosphere: Expeditions 301, 307, 308, 311, 327, 329–331, 334, 336, 337, and 344.
- Environmental Change, Processes and Effects: Expeditions 302, 303/306, 310, 313, 317, 318, 320/321, 323, 325, 339, 341, 342, 346, and 347.
- Solid Earth Cycles and Geodynamics: Expeditions 304/305, 309/312, 314/315/316, 319, 322, 324, 326, 332, 333, 335, 338, 340, 343, 345, and 348.

Figure 8. Integrated Ocean Drilling Program publication records by Initial Science Plan theme (2006–2018).

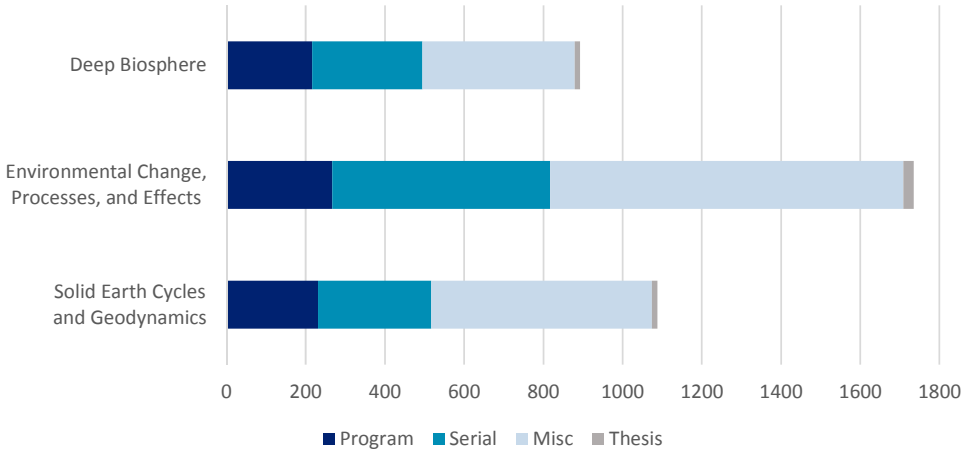
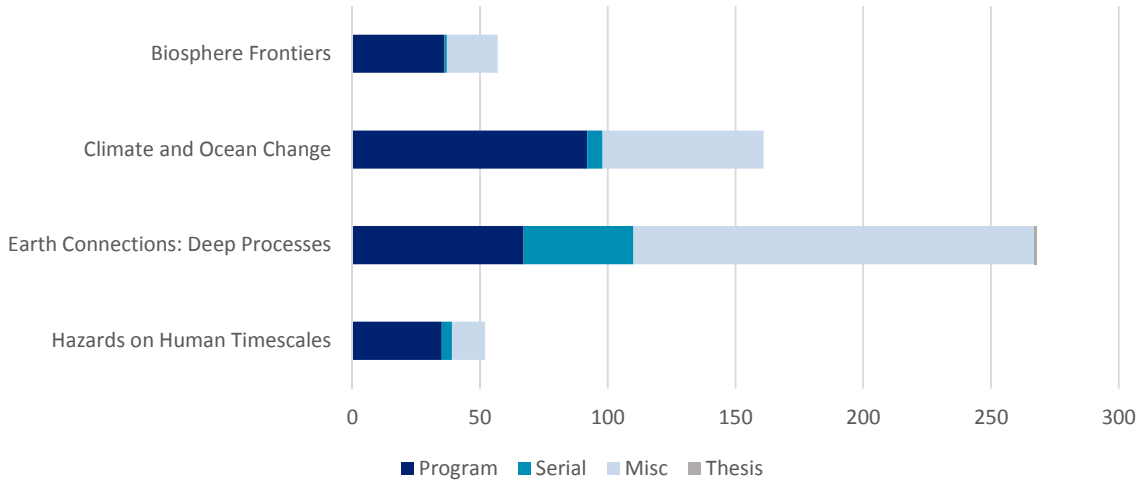



Figure 9 shows Program and non-Program (all types) serial, miscellaneous, and thesis/dissertation publication records related to IODP (Expeditions 349–366 and 370) and sorted by IODP Science Plan themes. Science plan themes are tied to the primary objectives of each expedition and were obtained from IODP Forum presentations.

- Biosphere Frontiers: Expeditions 357, 364, 366, and 370.
- Climate and Ocean Change: Expeditions 353–356, 359, 361, 363, and 364.
- Earth Connections: Deep Processes: Expeditions 349–352, 356, 357, and 360.
- Hazards on Human Timescales: Expeditions 357, 362, 365, and 366.

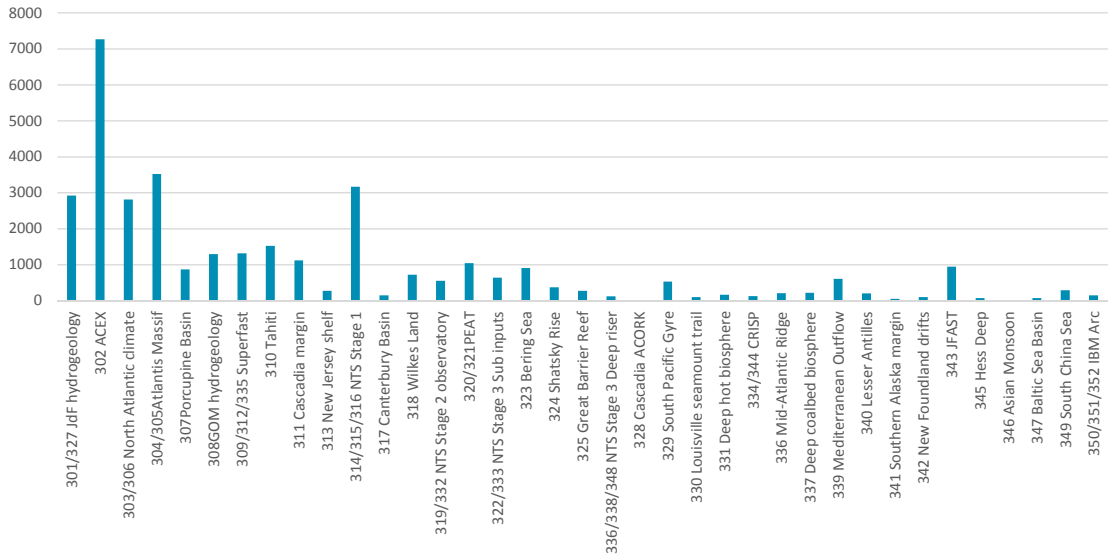
Figure 9. International Ocean Discovery Program publication records by Science Plan theme (2013–2018).




## Cited-by statistics

As indexing and interconnectivity of scientific research results increase, we are better able to illustrate through “cited-by” data how often scientific publications are cited in other research articles. Cited-by data, in the form of number of times an article has been cited, can be accrued through several venues: Science Direct, SCOPUS, CrossRef, Web of Science, Web of Knowledge, and others. Comprehensive cited-by results are unavailable at this time, as not all publishers utilize cited-by data compilers. For this report, we collected cited-by data in July 2018 through Google Scholar. Review of these cited-by data shows that Program publications and non-Program serial publications containing research results from Integrated Ocean Drilling Program and IODP expeditions have been cited in other research articles more

Figure 10. Number of times Program or non-Program serial publications from Integrated Ocean Drilling Program and IODP expeditions were cited by other research articles (2003–2018).



than 34,900 times between 2003 and 2018. Figure 10 includes available cited-by counts for Expeditions 301–352.

Table 4 (see next page) lists the ODP, Integrated Ocean Drilling Program, and IODP expedition-related papers that have been most cited as of July 2018. As mentioned above, it takes several years for papers to be published, and even more time for them to build up a high cited-by number; all of the most-cited papers are related to volumes published in 2011 or before. All of them are published in the top journals by impact factor, as shown in Figure 4.

Altmetric scores demonstrate the more immediate impact of papers by tracking mentions of them by news outlets, blogs, Wikipedia pages, and other social media. Table 5 (see page 14) lists the DSDP, ODP, Integrated Ocean Drilling Program, and IODP expedition-related papers with the highest Altmetric scores as of September 2018. Again, all of them are published in the top journals by impact factor, as shown in Figure 4. Visit the Altmetric website for more information about Altmetric scores (https://www.altmetric.com).

In 2013, IODP instituted a web-based cited-by linking function that parses metadata from CrossRef's Cited-by Linking service to provide links from *Proceedings* table of contents pages to scientific articles or books that cite a Program publication. Cited-by results are continually updated (http://publications.iodp.org). Note that these cited-by results include cites only from publishers that participate in CrossRef cited-by linking services. Cited-by statistics and Altmetric scores for Program and non-Program publications can also be found at Science Open (http://ScienceOpen.com).

## Customized reports

IODP funding agencies, implementing organizations, program member offices, and individual member countries may request customized reports that may include combinations of publication data organized by

- Country or consortia;
- Program (DSDP, ODP, Integrated Ocean Drilling Program, or IODP);
- Leg, expedition, complex science program, or geographic area;
- Publication year; or
- Specific serial publication.

To request a customized report, contact Citations@iodp.tamu.edu.

Table 4. Top cited expedition-related papers as of July 2018.

| Article | Leg or expedition | Cited by (*N*) | Altmetric score | Altmetric link |
|---|---|---|---|---|
| Sluijs, A., Schouten, S., Pagani, M., Woltering, M., Brinkhuis, H., Sinninghe Damsté, J.S., Dickens, G.R., Huber, M., Reichart, G.-J., Stein, R., Matthiessen, J., Lourens, L.J., Pedentchouk, N., Backman, J., Moran, K., and the Expedition 302 Scientists, 2006. Subtropical Arctic Ocean temperatures during the Palaeocene/Eocene Thermal Maximum. *Nature*, 441(7093):610–613. http://dx.doi.org/10.1038/nature04668 | IODP 302 | 550 | 41 | https://www.altmetric.com/details/117371 |
| Inagaki, F., Nunoura, T., Nakagawa, S., Teske, A., Lever, M., Lauer, A., Suzuki, M., Takai, K., Delwiche, M., Colwell, F.S., Nealson, K.H., Horikoshi, K., D'Hondt, S., and Jørgensen, B.B., 2006. Biogeographical distribution and diversity of microbes in methane hydrate-bearing deep marine sediments on the Pacific Ocean margin. *Proceedings of the National Academy of Sciences of the United States of America*, 103(8):2815–2820. http://dx.doi.org/10.1073/pnas.0511033103 | ODP 201, 204 | 549 | 9 | https://www.altmetric.com/details/4593359 |
| Moran, K., Backman, J., Brinkhuis, H., Clemens, S.C., Cronin, T., Dickens, G.R., Eynaud, F., Gattacceca, J., Jakobsson, M., Jordan, R.W., Kaminski, M., King, J., Koc, N., Krylov, A., Martinez, N., Matthiessen, J., McInroy, D., Moore, T.C., Onodera, J., O'Regan, M., Pälike, H., Rea, B., Rio, D., Sakamoto, T., Smith, D.C., Stein, R., St. John, K., Suto, I., Suzuki, N., Takahashi, K., Watanabe, M., Yamamoto, M., Farrell, J., Frank, M., Kubik, P., Jokat, W., and Kristoffersen, Y., 2006. The Cenozoic palaeoenvironment of the Arctic Ocean. *Nature*, 441(7093):601–605. http://dx.doi.org/10.1038/nature04800 | IODP 302 | 513 | 25 | https://www.altmetric.com/details/117368 |
| Lipp, J.S., Morono, Y., Inagaki, F., and Hinrichs, K.-U., 2008. Significant contribution of Archaea to extant biomass in marine subsurface sediments. *Nature*, 454(7207):991–994. http://dx.doi.org/10.1038/nature07174 | ODP 201, 204, 207; IODP 301, 311 | 475 | 4 | https://www.altmetric.com/details/526275 |
| Scher, H.D., and Martin, E.E., 2006. Timing and climatic consequences of the opening of Drake Passage. *Science*, 312(5772):428–430. https://doi.org/10.1126/science.1120044 | ODP Site 1090 and others | 447 | 3 | https://www.altmetric.com/details/4212417 |
| Kallmeyer, J., Pockalny, R., Adhikari, R.R., Smith, D.C., and D'Hondt, S., 2012. Global distribution of microbial abundance and biomass in subseafloor sediment. *Proceedings of the National Academy of Sciences of the United States of America*, 109(40):16213–16216. https://doi.org/10.1073/pnas.1203849109 | IODP 323 with ODP 204, 204, 207, and IODP 301, 311, 336 | 411 | | Not available |
| Pagani, M., Pedentchouk, N., Huber, M., Sluijs, A., Schouten, S., Brinkhuis, H., Sinninghe Damsté, J.S., Dickens, G.R., and Expedition 302 Scientists, 2006. Arctic hydrology during global warming at the Palaeocene/Eocene Thermal Maximum. *Nature*, 443(7103):671–675. https://doi.org/10.1038/nature05043 | IODP 302 | 326 | 15 | https://www.altmetric.com/details/117369 |
| Deschamps, P., Durand, N., Bard, E., Hamelin, B., Camoin, G., Thomas, A.L., Henderson, G.M., Okuno, J., and Yokoyama, Y., 2012. Ice-sheet collapse and sea-level rise at the Bølling warming 14,600 years ago. *Nature*, 483(7391):559–564. http://dx.doi.org/10.1038/nature10902 | IODP 310 | 313 | 63 | https://www.altmetric.com/details/671036 |
| Moore, G.F., Bangs, N.L., Taira, A., Kuramoto, S., Pangborn, E., and Tobin, H.J., 2007. Three-dimensional splay fault geometry and implications for tsunami generation. *Science*, 318(5853):1128–1131. http://dx.doi.org/10.1126/science.1147195 | IODP 314/315/316 | 308 | 11 | https://www.altmetric.com/details/1373810 |
| Frost, B.R., and Beard, J.S., 2007. On silica activity and serpentinization. *Journal of Petrology*, 48(7):1351–1368. http://dx.doi.org/10.1093/petrology/egm021 | IODP 304/305 | 276 | | Not available |
| | **Total cited by:** | **4,168** | | |

Table 5. Expedition-related papers with the highest Altmetric scores as of September 2018.

| Article | Expedition | Altmetric score | Altmetric link |
|---|---|---|---|
| Morgan, J.V., Gulick, S.P.S., Bralower, T., Chenot, E., Christeson, G., Clayes, P., Cockell, C., et al., 2016. The formation of peak rings in large impact craters. *Science*, 354(6314):878–882. http://dx.doi.org/10.1126/science.aah6561 | IODP 364 | 922 | https://www.altmetric.com/details/13758998 |
| Sager, W.W., Zhang, J., Korenaga, J., Sano, T., Koppers, A.A.P., Widdowson, M., and Mahoney, J.J., 2013. An immense shield volcano within the Shatsky Rise oceanic plateau, northwest Pacific Ocean. *Nature Geoscience*, 6:976–981. http://dx.doi.org/10.1038/ngeo1934 | IODP 324 with ODP 192 and 198 | 777 | https://www.altmetric.com/details/1732582 |
| Artemieva, N., Morgan, J., and the Expedition 364 Science Party, 2017. Quantifying the release of climate-active gases by large meteorite impacts with a case study of Chicxulub: release of climate-active gases. *Geophysical Research Letters*, 44(20):10180–10188. https://doi.org/10.1002/2017GL074879 | IODP 364 | 542 | https://www.altmetric.com/details/28144988 |
| Vajda, V., Arz, A., Alegret, L., Rebolledo, M., Willumsen, P., Matsui, J.T., Deutsch, A., et al., 2010. The Chicxulub asteroid impact and mass extinction at the Cretaceous-Paleogene boundary. *Science*, 327(5970):1214–1218. https://doi.org/10.1126/science.1177265 | ODP 207 | 495 | https://www.altmetric.com/details/103997 |
| Gutjahr, M., Ridgwell, A., Sexton, P.F., Anagnostou, E., Pearson, P.N., Pälike, H., Norris, R.D., Thomas, E., and Foster, G.L., 2018. Very large release of mostly volcanic carbon during the Paleocene-Eocene Thermal Maximum. *Nature*, 548:573–577. https://doi.org/10.1038/nature23646 | DSDP 48 with ODP 114 | 481 | https://www.altmetric.com/details/24534824 |
| Lowery, C.M., Bralower, T.J., Owens, J.D., Rodríguez-Tovar, F.J., Jones, H., Smit, J., et al., 2018. Rapid recovery of life at ground zero of the end-Cretaceous mass extinction. *Nature*, 588:288–291. https://doi.org/10.1038/s41586-018-0163-6 | IODP 364 | 464 | https://www.altmetric.com/details/43002567 |
| Fulton, P.M., Brodsky, E.E., Kano, Y., Mori, J., Chester, F., Ishikawa, T., Harris, R.N., et al., 2013. Low coseismic friction on the Tohoku-oki fault determined from temperature measurements. *Science*, 342(6163)1214–1217. http://dx.doi.org/10.1126/science.1243641 | IODP 343 | 343 | https://www.altmetric.com/details/1958870 |
| Chester, F.M., Rowe, C., Ujiie, K., Kirkpatrick, J., Regalla, C., Remitti, F., Moore, J.C., et al., 2013. Structure and composition of the plate-boundary slip zone for the 2011 Tohoku-oki Earthquake. *Science*, 342(6163):1208–1211. http://dx.doi.org/10.1126/science.1243719 | IODP 343 | 331 | https://www.altmetric.com/details/1958617 |
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