

2013 OCEAN DRILLING CITATION REPORT

**Covering Citations Related to the
Deep Sea Drilling Project, Ocean Drilling Program,
and Integrated Ocean Drilling Program
from GeoRef Citations
Indexed by the
American Geological Institute
from 1969 through 2012**

Produced by

**Integrated Ocean Drilling Program
Publication Services**

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Overview of the Ocean Drilling Citation Database

The Ocean Drilling Citation Database contains citation records related to the Deep Sea Drilling Project (DSDP), Ocean Drilling Program (ODP), and Integrated Ocean Drilling Program (IODP). This database is produced by the American Geological Institute (AGI) in collaboration with IODP Management International (IODP-MI). In June 2013, when the data for this study were compiled, the Ocean Drilling Citation Database contained 28,925 citation records with publication dates from 1966 through 2012.

The Ocean Drilling Citation Database is a subset of AGI's GeoRef database. To generate the GeoRef database, AGI indexes and records citation 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, American Geophysical Union, and most of the Geoscience World publishers. In addition, IODP Publication Services notifies AGI when Program publications are released.

AGI creates the Ocean Drilling Citation Database by using a series of keywords to extract citation records related to DSDP, ODP, and IODP research from the GeoRef database. The Ocean Drilling Citation Database resides on the AGI server (odp.georef.org/dbtw-wpd/qbeodp.htm) and is updated weekly from the GeoRef database. Citation metadata can be downloaded from the database into common bibliographic software.

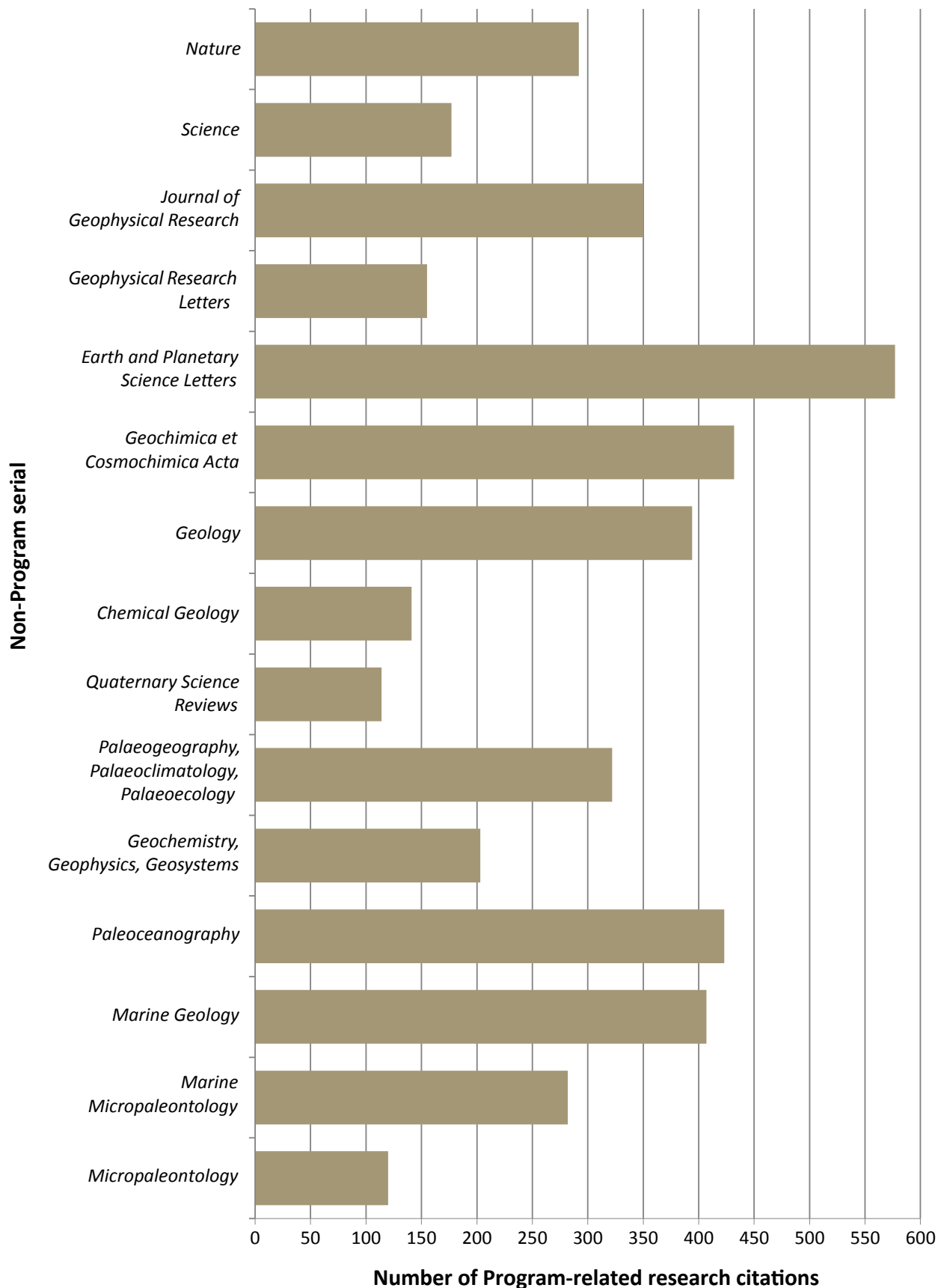
Data collected for the annual Ocean Drilling Citation Report are divided into two main categories, Program and non-Program:

- **Program** citations include publications produced and published directly by DSDP, ODP, or IODP. These Program publications include but are not limited to the *Initial Reports of the Deep Sea Drilling Project*, *Proceedings of the Ocean Drilling Program*, *Proceedings of the Integrated Ocean Drilling Program*, and the report and technical note series from each Program.
- **Non-Program** records include publication of scientific research from DSDP, ODP, and IODP in venues other than Program publications.

Non-Program publications are further categorized into three groups, "serials," "abstracts and meetings," and "miscellaneous:"

- **Serial** records are 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*). The non-Program serial publications that have published the largest number of Program-related research are shown in **Figure 1**, listed in order of Eigenfactor Article Influence Score (comparable to ISI Impact Factor). **Figure 2** breaks down the number of times non-Program articles that contain primary research from IODP Phase I expeditions have been cited by other research articles.
- **Abstracts and meetings** records include books, reports, serial conference proceedings, monographs, maps, and abstracts that are produced as the result of a meeting or conference, including those published in serial publications but not presented at meetings or conferences (e.g., *Abstracts with Programs—Geological Society of America*; *Eos, Transactions of the American Geophysical Union*, etc.).

Figure 1. Top 15 non-Program peer-reviewed serials publishing Program-related research, 1969–2012.

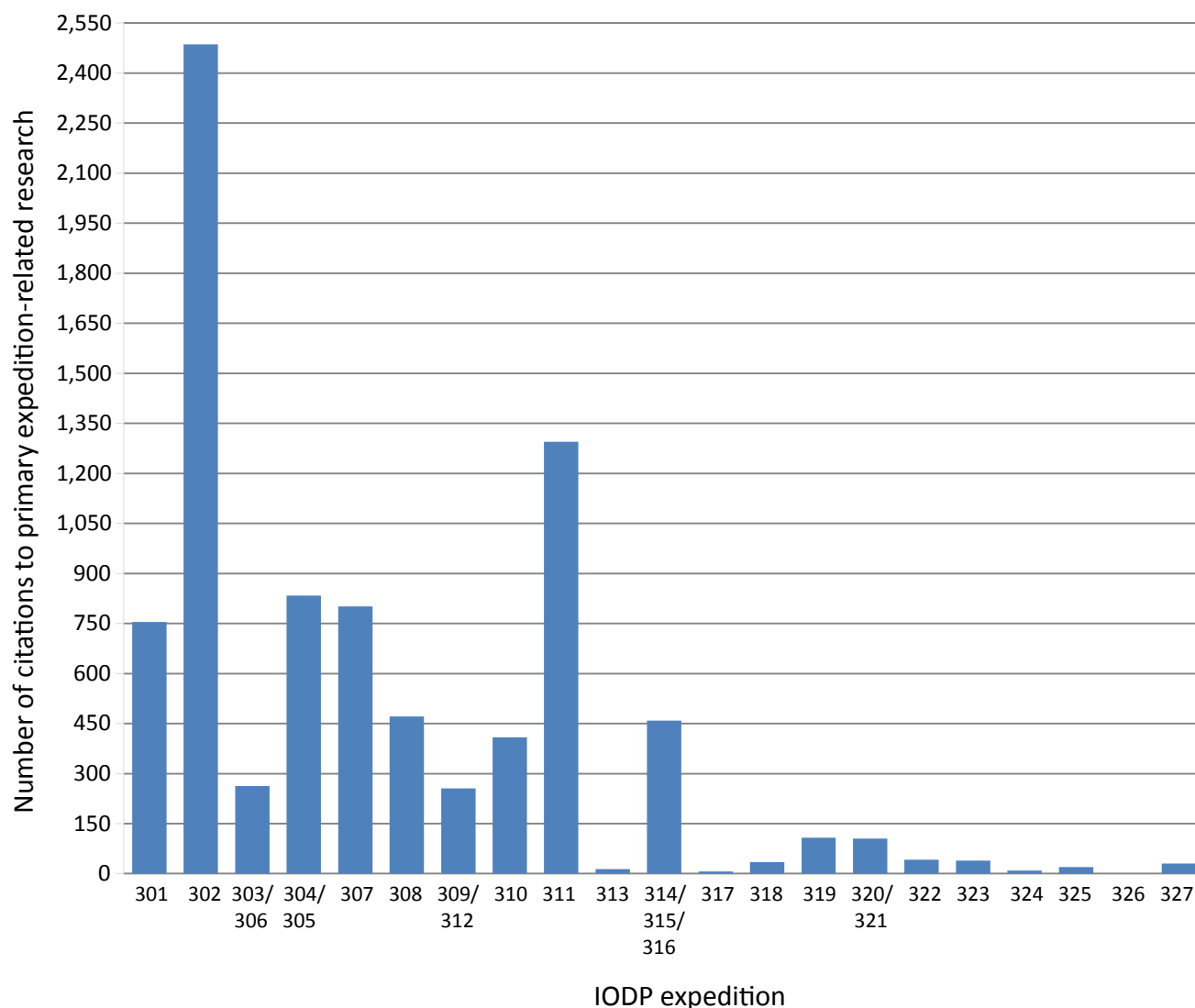


Note: The top 15 serials are determined from their Eigenfactor Article Influence score (<http://eigenfactor.org/>).

- **Miscellaneous** records include non-serial maps, videos, books, CD-ROM/DVD-ROM, monographs, and theses. The number of published theses based on DSDP, ODP, or IODP science during the life of the Program are shown in **Figure 3**.

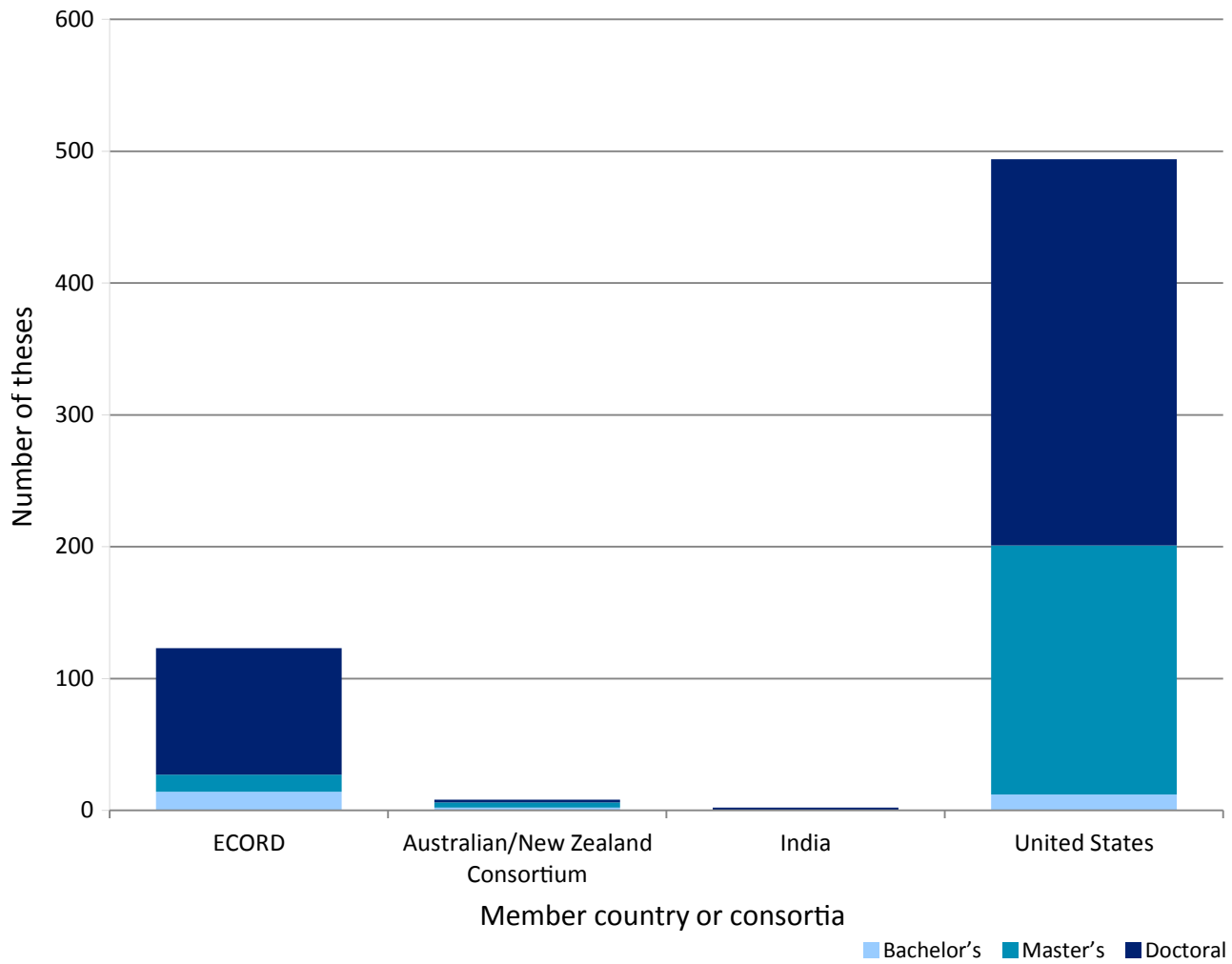
Depending on the source from which AGI acquires its information, there may be a significant delay after publication before the citation is included in the GeoRef database. There is no guarantee that all publication venues for Program (DSDP, ODP, and IODP) research are included in the database, but scientific publications throughout the world are represented.

Figure 2. Number of times non-Program articles that contain primary research from IODP Phase 1 expeditions have been cited by other research articles, 2003–2012.



Note: Cited-by statistics are derived from Google Scholar (<http://scholar.google.com/>).

Figure 3. Number of theses based on Program science, 1969–2013.



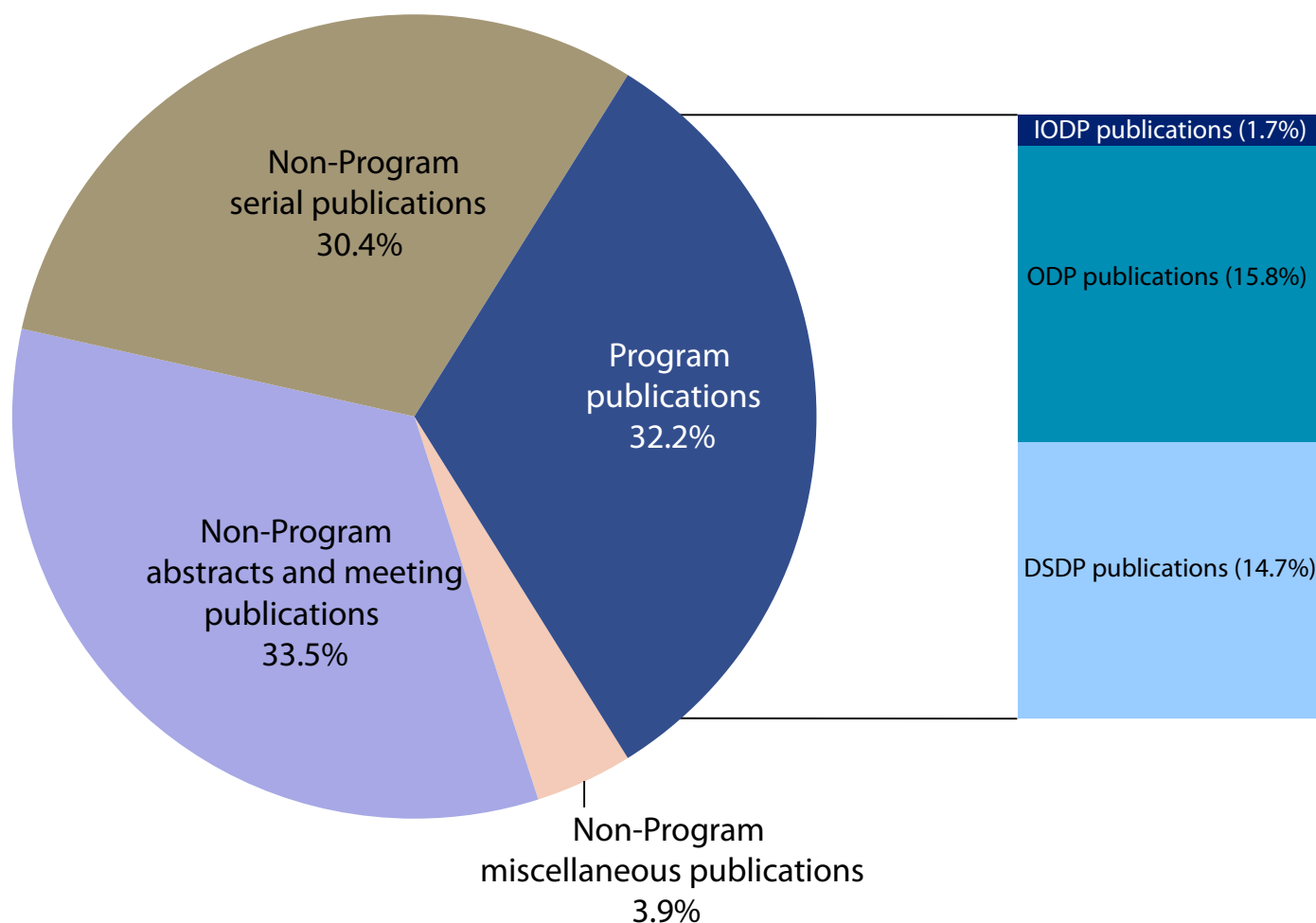
Note: See **Table 1** for consortia member countries.

2013 Program-related citation review

A review of the records in the Ocean Drilling Citation Database provides information on how Program-related research is disseminated into the scientific community through publications and therefore can indicate the impact of Program science. The IODP Publication Services Department produces annual studies of the database based on the citations that exist in the AGI database as of June of each calendar year. The report is available online by the end of each fiscal year.

The 2013 database update contains 28,925 records containing metadata from citations published from 1969 to 2012, comprising ~32% Program and ~68% non-Program citations. Non-Program publications are approximately evenly distributed between serial publications and abstracts and meetings (Figure 4).

Figure 4. 2013 overview of citation records in the Ocean Drilling Citation Database (total = 28,925).



Because scientists may be affiliated with more than one institution or country over time, this report is based on the country affiliation of the author at the time the research was published. Scientists from 100 different countries have contributed to Program publications, and scientists from 97 different countries have authored or contributed to non-Program publications.

Approximately 16,900 non-Program publications (~58% of total publications listed in the database) are first-authored by scientists from IODP member countries (**Table 1**), and approximately 7,650 of these non-Program research papers have appeared in peer-reviewed serial publications (**Table 2**).

Table 1. Number of DSDP-, ODP-, and IODP-related contributions to non-Program publications by authors affiliated with IODP member countries, 1969–2012.

Member country or consortia	Publications contributed to	First-authored publications
Australia/New Zealand Consortium	972	553
Australia	681	336
New Zealand	291	217
Brazil	42	29
ECORD	11,299	6,575
Austria	53	13
Belgium	140	63
Canada	1,222	724
Denmark/Greenland	175	69
Finland	38	31
France	1,705	1,004
Germany	2,645	1,822
Iceland	15	5
Ireland	30	13
Italy	684	374
Netherlands	487	261
Norway	397	200
Portugal	72	21
Spain	317	167
Sweden	313	152
Switzerland	414	219
United Kingdom	2,592	1,437
India	206	172
Japan	1,399	918
People's Republic of China	396	294
South Korea	103	43
United States	9,906	8,326
Totals	24,323	16,910

Note: Totals include citations for which author affiliation data are available.
ECORD = European Consortium for Ocean Research Drilling.

Table 2. Number of DSDP-, ODP-, and IODP-related non-Program publications first-authored by scientists affiliated with IODP member countries, 1969–2012.

Member country or consortia	Serials	Abstracts/ meetings	Miscellaneous	Total
Australian/New Zealand Consortium	254	285	14	553
Australia	147	179	10	336
New Zealand	107	106	4	217
Brazil	8	21	0	29
ECORD	3,103	3,352	120	6,575
Austria	4	8	1	13
Belgium	28	31	4	63
Canada	258	458	8	724
Denmark	41	28	0	69
Finland	6	24	1	31
France	528	460	16	1,004
Germany	722	1,061	39	1,822
Iceland	4	1	0	5
Ireland	4	9	0	13
Italy	195	175	4	374
Netherlands	159	97	5	261
Norway	106	90	4	200
Portugal	6	14	1	21
Spain	89	78	0	167
Sweden	82	68	2	152
Switzerland	101	113	5	219
United Kingdom	770	637	30	1,437
India	140	24	8	172
Japan	490	395	33	918
People's Republic of China	245	49	0	294
South Korea	25	18	0	43
United States	3,382	4,769	175	8,326
Totals	7,647	8,913	350	16,910

Note: Totals include citations for which author affiliation data are available.

ECORD = European Consortium for Ocean Research Drilling.

Since the inception of IODP in 2003, first-authors from IODP member countries and member consortia have published approximately 6,050 papers in non-Program publications (**Table 3; Figure 5**).

IODP expedition reports are published in the *Proceedings of the Integrated Ocean Drilling Program*, and postexpedition research is published in two forms: data reports published in the *Proceedings* and scientific research results published in non-Program peer-reviewed journals. Expedition synthesis papers may be published in either venue (**Figure 6**).

Table 3. Number of Program-related contributions to non-Program publications first-authored by authors affiliated with IODP member countries since the inception of IODP, 2003–2012.

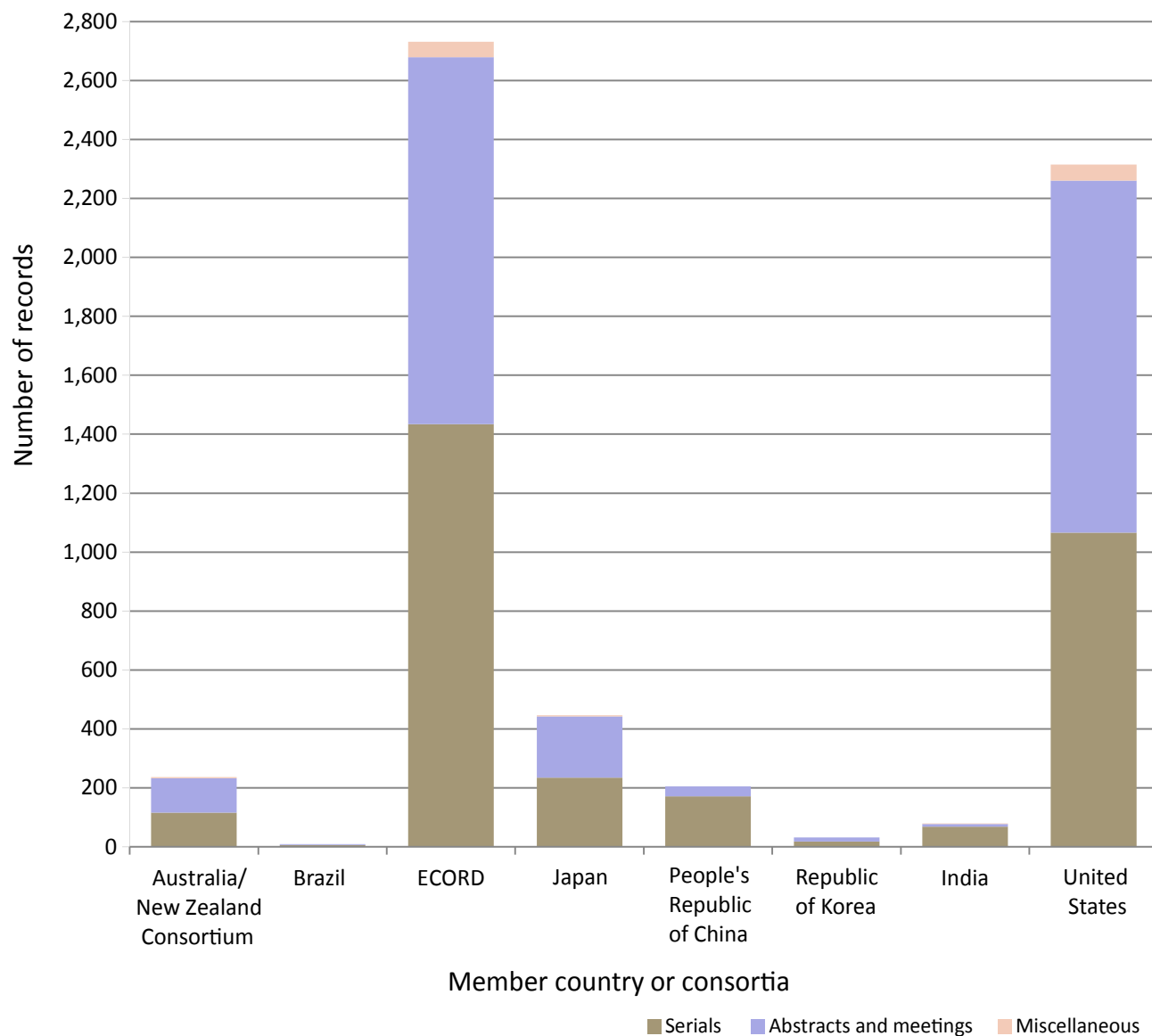
Member country or consortia	Serials	Abstracts/ meetings	Miscellaneous	Total
Australian/New Zealand Consortium	116	117	4	237
Australia	66	48	4	118
New Zealand	50	69	0	119
Brazil	6	3	0	9
ECORD	1,434	1,245	52	2,731
Austria	2	2	0	4
Belgium	22	18	2	42
Canada	84	96	4	184
Denmark	21	3	0	24
Finland	4	16	1	21
France	195	111	5	311
Germany	374	483	11	868
Iceland	2	1	0	3
Ireland	3	7	0	10
Italy	118	78	3	199
Netherlands	85	52	5	142
Norway	36	36	3	75
Portugal	5	8	0	13
Spain	53	53	0	106
Sweden	25	16	0	41
Switzerland	48	37	2	87
United Kingdom	357	228	16	601
India	69	9	2	80
Japan	235	208	4	447
People's Republic of China	172	33	0	205
South Korea	18	14	0	32
United States	1,066	1,194	55	2,315

Note: Totals include citations for which author affiliation data are available.

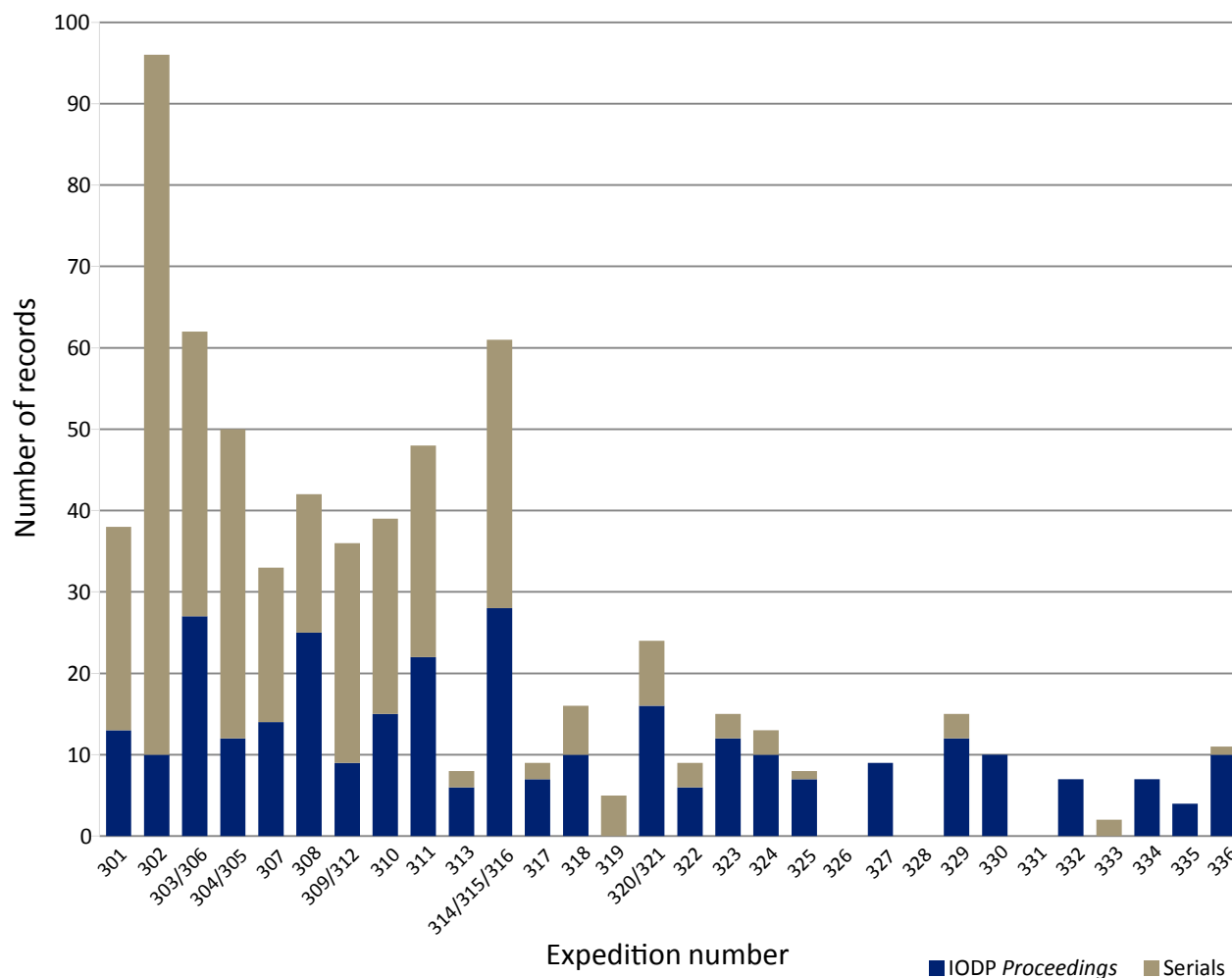
ECORD = European Consortium for Ocean Research Drilling.

Postexpedition research continues for many years after the initial results are published in the *Proceedings* volume, and subsequent annual citation reports reflect publication of ongoing research from each IODP expedition (**Table 3; Figure 6**). Scientific research from DSDP and ODP will also continue to be published in non-Program publications in the years to come, and these publications will continue to be included in annual citation reports (**Tables 1, 2; Figure 7**).

Figure 5. DSDP-, ODP-, and IODP-related non-Program publications based on first-author affiliation of IODP member countries and consortia, 2003–2012.



Note: See **Table 1** for consortia member countries.

Figure 6. Number of IODP *Proceedings* and expedition-related non-Program publications.

Annual citation reports also include the number of Program *Proceedings* and non-Program serial publications representing DSDP, ODP, and IODP research undertaken in areas of continued interest during the life of the Program (**Figure 8**).

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

- country or consortia;
- program (DSDP, ODP, or IODP);
- leg, expedition, complex science program, or geographic area;
- publication year; or
- specific serial publication.

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

Figure 7. Annual breakdown of Program and non-Program Ocean Drilling Citation Database records, 1969–2012.

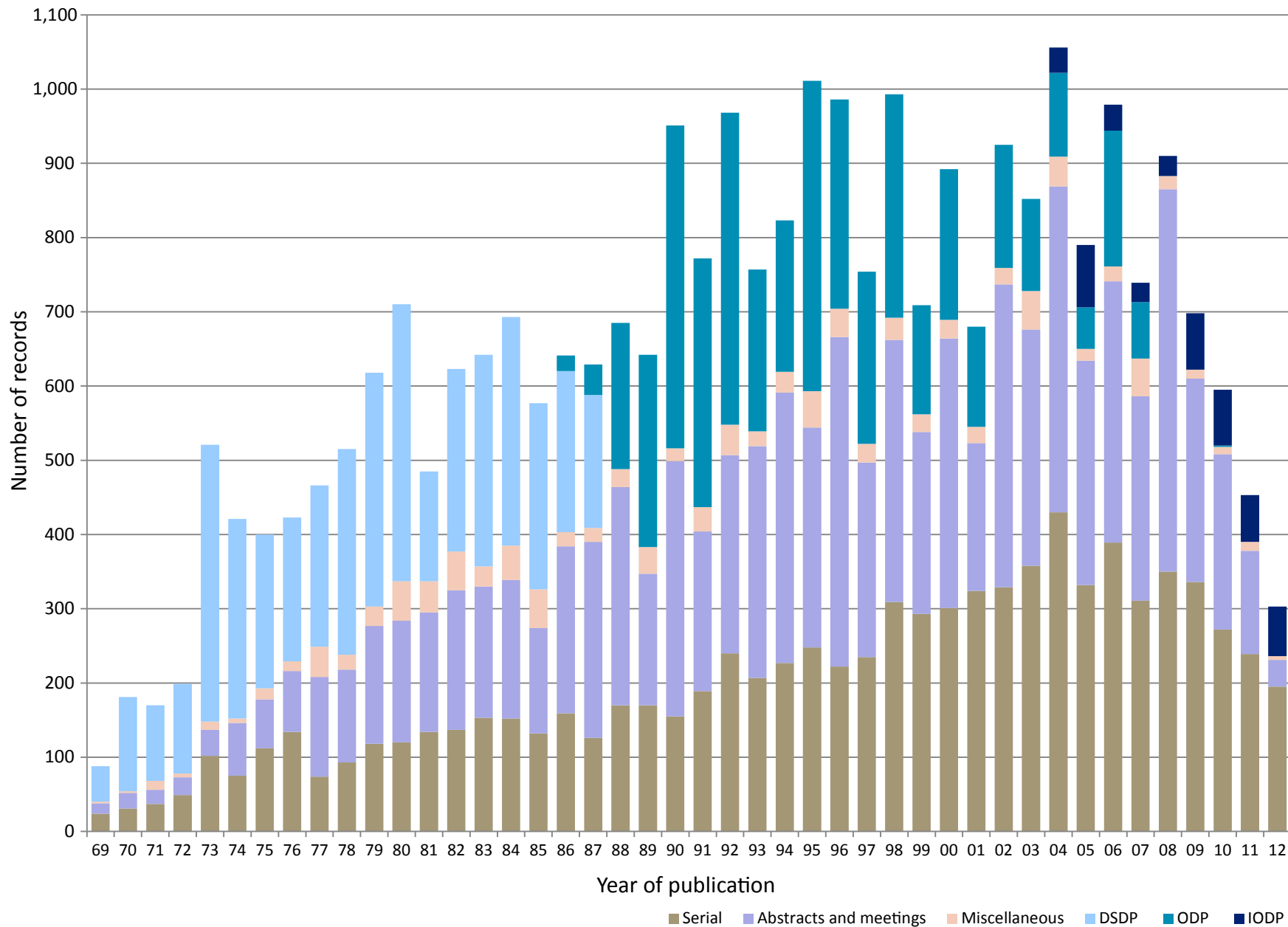


Figure 8. IODP Proceedings and non-Program serial citations representing research undertaken in areas of continued interest by DSDP, ODP, and IODP, 1969–2012.

