

# **2012 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 2011**

**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 2012, when the data for this study were compiled, the Ocean Drilling Citation Database contained 28, 272 citation records with publication dates from 1966 through 2011.

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](http://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.

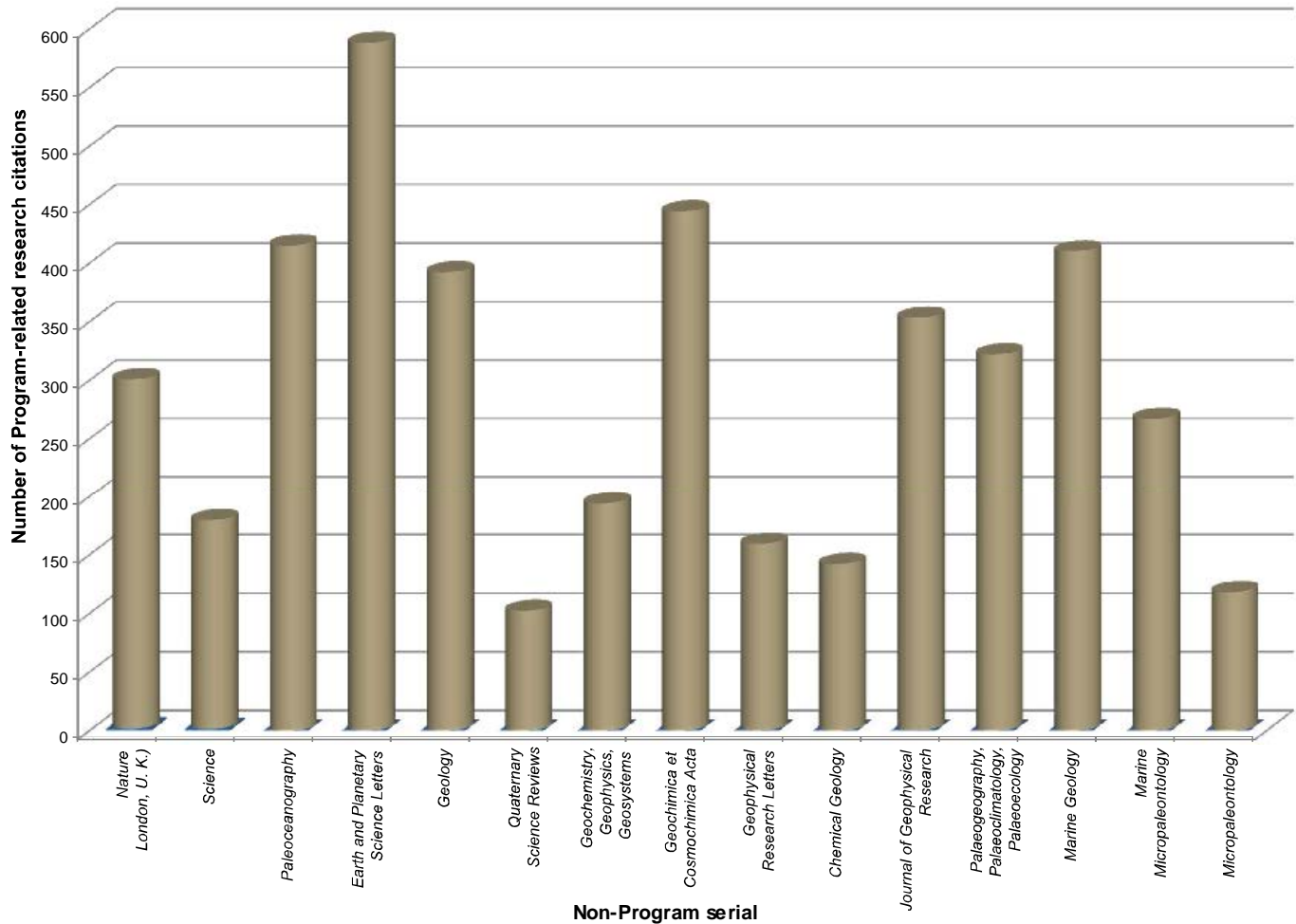
Data collected for the annual Ocean Drilling Citation Report are divided into two main categories, Program and non-Program:

- **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.

**Figure 1.** Top 15 non-Program peer-reviewed serials publishing Program-related research, 1969–2011.



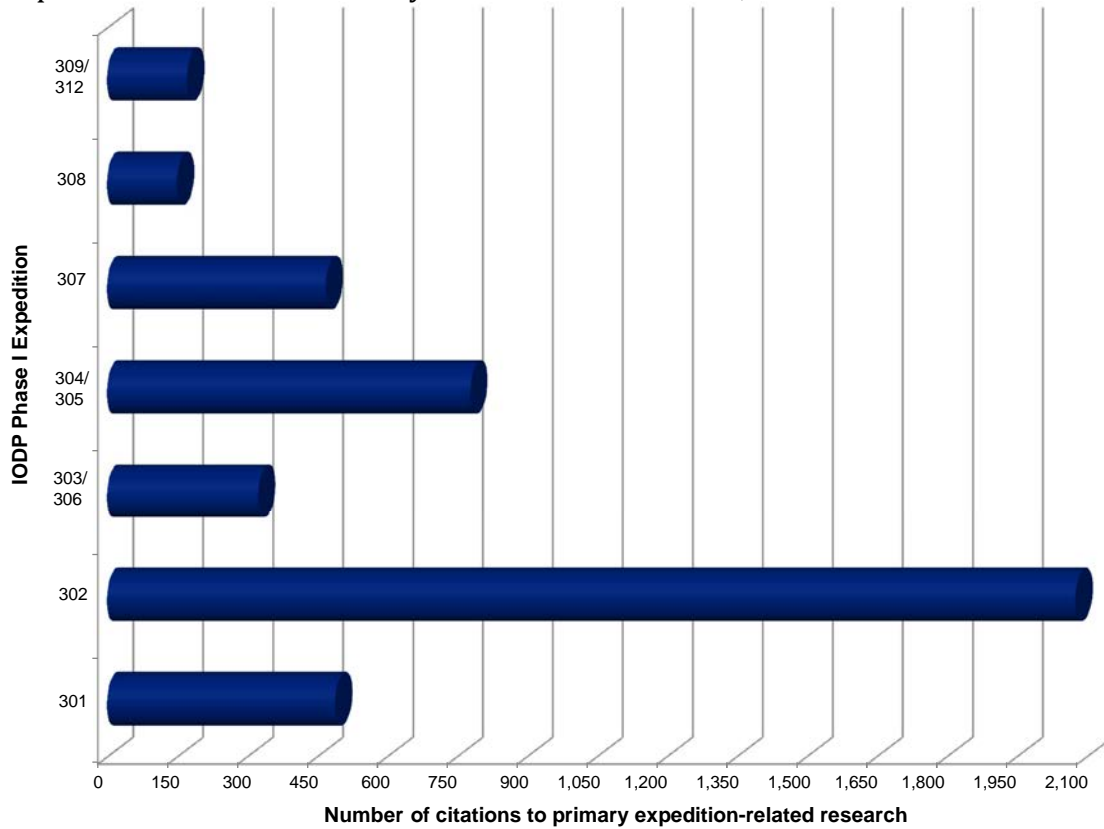
**Note:** The top 15 serials are determined from their Eigenfactor Article Influence score (<http://eigenfactor.org/>).

#### Eigenfactor Article Influence Score

- **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.).
- **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**.

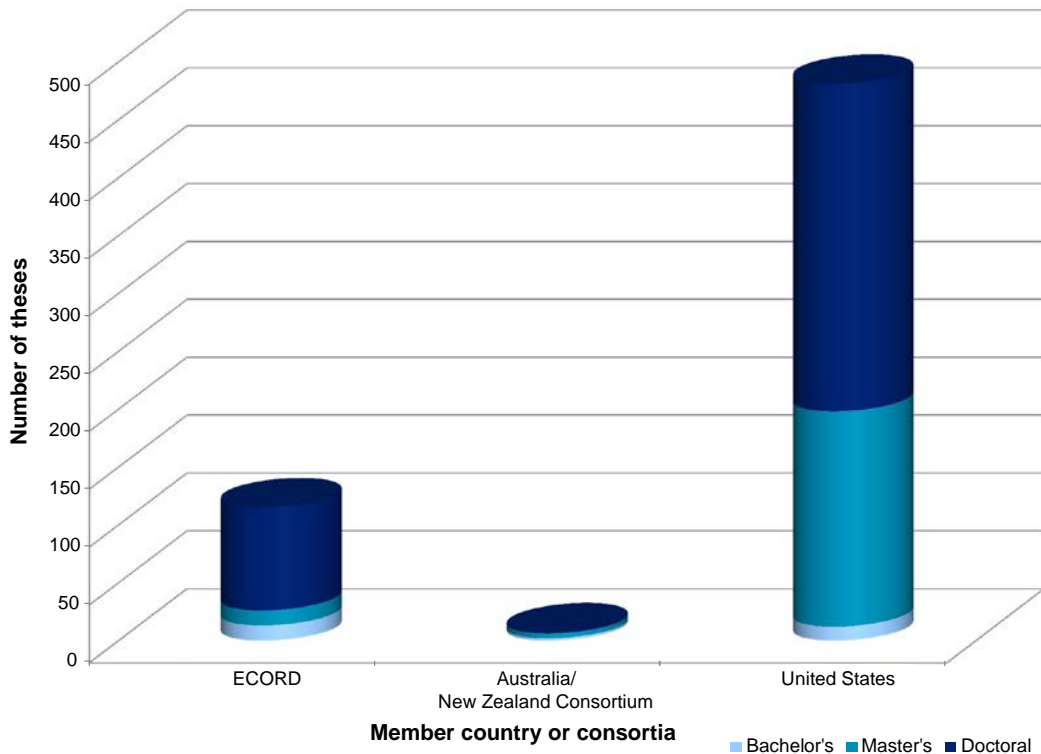
Depending on the source from which AGI acquires its information, there may be a significant delay after publication before the citation is included in the GeoRef database. There is no guarantee that all publication venues for Program (DSDP, ODP, and IODP) research are included in the database, but scientific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

**Figure 2.** Number of times non-Program articles that contain primary research from IODP Phase I expeditions have been cited by other research articles, 2003–2011.



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

**Figure 3.** Number of theses based on Program science, 1969–2011.



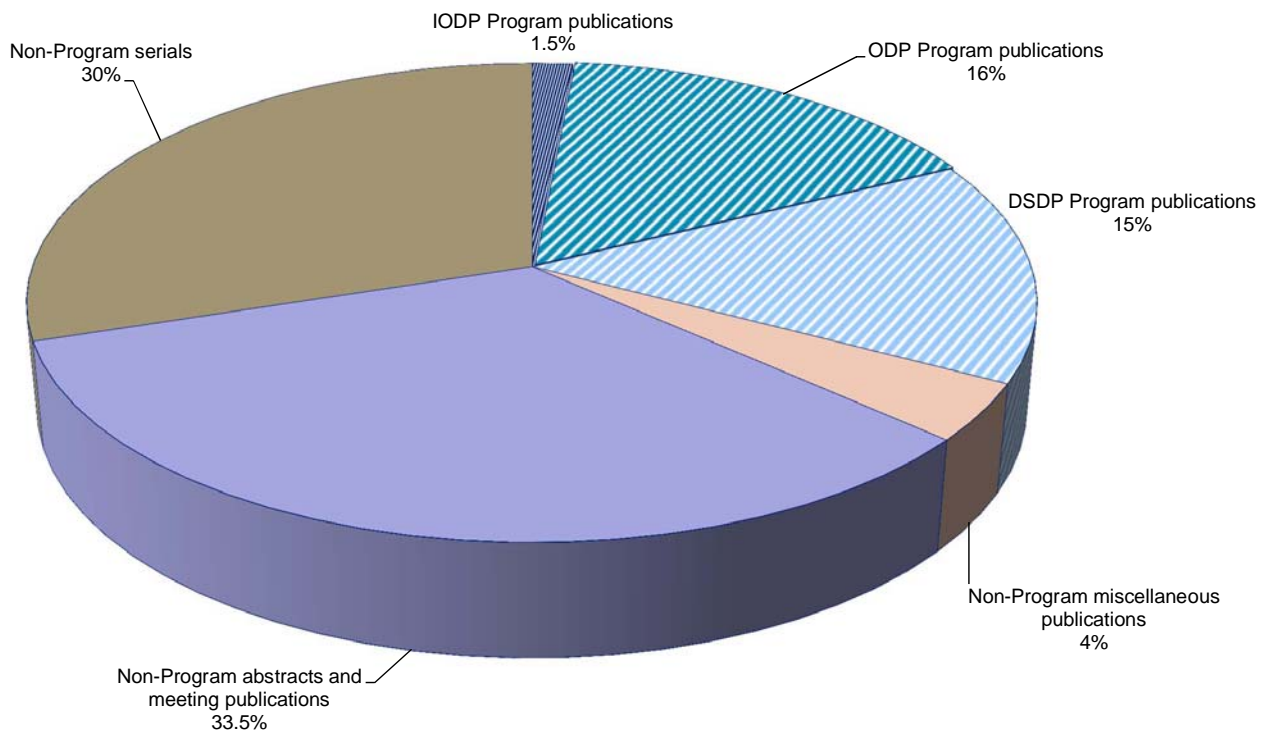
**Note:** See **Table 1** for consortia member countries.

## 2011 OCEAN DRILLING CITATION REPORT

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. IODP Publication Services 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 2012 database update contains 28,272 records containing metadata from citations published from 1969 to 2011, comprising ~33% Program and ~67% non-Program citations. Non-Program publications are approximately evenly distributed between serial publications and abstracts and meetings (**Figure 4**).

**Figure 4.** 2012 overview of citation records in the Ocean Drilling Citation Database (total = ~28,300).



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 (**Table 1**).

Approximately 16,320 non-Program publications (~60% of total publications listed in the database) are first-authored or contributed to by scientists from IODP member countries (**Table 1**), and 7,315 of these non-Program research papers have appeared in peer-reviewed serial publications (**Table 2**).

## 2012 Ocean Drilling Citation Report

**Table 1.** Number of DSDP-, ODP-, and IODP-related contributions to non-Program publications by authors affiliated with IODP member countries, 1969–2011.

<b>Member country or consortia</b>	<b>Publications contributed to</b>	<b>First-authored publications</b>
<b>Australia/New Zealand Consortium</b>	<b>932</b>	<b>520</b>
Australia	658	333
New Zealand	274	187
<b>ECORD</b>	<b>10,998</b>	<b>6,314</b>
Austria	50	12
Belgium	137	53
Canada	1,206	711
Denmark/Greenland	162	65
Finland	37	27
France	1,666	968
Germany	2,586	1,759
Iceland	15	5
Ireland	28	12
Italy	675	352
Netherlands	470	248
Norway	378	196
Portugal	65	20
Spain	298	154
Sweden	304	150
Switzerland	406	210
United Kingdom	2,515	1,372
<b>India</b>	<b>189</b>	<b>166</b>
<b>Japan</b>	<b>1,354</b>	<b>864</b>
<b>People's Republic of China</b>	<b>372</b>	<b>278</b>
<b>Republic of Korea</b>	<b>74</b>	<b>41</b>
<b>United States</b>	<b>9,802</b>	<b>8,136</b>
<b>Totals</b>	<b>23,721</b>	<b>16,319</b>

**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, 1969–2011.

Member country or consortia	Serials	Abstracts/ meetings	Miscellaneous	Total
<b>Australian/New Zealand Consortium</b>	<b>248</b>	<b>259</b>	<b>13</b>	<b>520</b>
Australia	146	177	10	333
New Zealand	102	82	3	187
<b>ECORD</b>	<b>2,932</b>	<b>3,274</b>	<b>108</b>	<b>6,314</b>
Austria	3	8	1	12
Belgium	24	29	0	53
Canada	255	448	8	711
Denmark	37	28	0	65
Finland	5	21	1	27
France	504	449	15	968
Germany	679	1,042	38	1,759
Iceland	4	1	0	5
Ireland	3	9	0	12
Italy	178	173	1	352
Netherlands	150	96	2	248
Norway	103	89	4	196
Portugal	5	14	1	20
Spain	79	75	0	154
Sweden	80	68	2	150
Switzerland	96	109	5	210
United Kingdom	727	615	30	1,372
<b>India</b>	<b>136</b>	<b>24</b>	<b>6</b>	<b>166</b>
<b>Japan</b>	<b>455</b>	<b>376</b>	<b>33</b>	<b>864</b>
<b>People's Republic of China</b>	<b>232</b>	<b>46</b>	<b>0</b>	<b>278</b>
<b>Republic of Korea</b>	<b>24</b>	<b>17</b>	<b>0</b>	<b>41</b>
<b>United States</b>	<b>3,288</b>	<b>4,689</b>	<b>159</b>	<b>8,136</b>
<b>Totals</b>	<b>7,315</b>	<b>8,685</b>	<b>319</b>	<b>16,319</b>

**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 5,500 papers in non-Program publications (**Table 3; Figure 5**).

**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, 2003–2011.

Member country or consortia	Serials	Abstracts/ meetings	Miscellaneous	Total
<b>Australian/New Zealand Consortium</b>	<b>110</b>	<b>91</b>	<b>4</b>	<b>205</b>
Australia	65	46	4	115
New Zealand	45	45	0	90
<b>ECORD</b>	<b>1,262</b>	<b>1,179</b>	<b>43</b>	<b>2,484</b>
Austria	1	2	0	3
Belgium	18	16	0	34
Canada	75	85	4	164
Denmark	17	3	0	20
Finland	3	13	1	17
France	175	103	4	282
Germany	331	470	11	812
Iceland	2	1	0	3
Ireland	2	7	0	9
Italy	101	76	0	177
Netherlands	76	51	2	129
Norway	33	36	3	72
Portugal	4	8	0	12
Spain	43	50	0	93
Sweden	23	16	0	39
Switzerland	43	35	2	80
United Kingdom	315	207	16	538
<b>India</b>	<b>65</b>	<b>9</b>	<b>0</b>	<b>74</b>
<b>Japan</b>	<b>200</b>	<b>192</b>	<b>4</b>	<b>396</b>
<b>People's Republic of China</b>	<b>159</b>	<b>30</b>	<b>0</b>	<b>189</b>
<b>Republic of Korea</b>	<b>17</b>	<b>13</b>	<b>0</b>	<b>30</b>
<b>United States</b>	<b>976</b>	<b>1,122</b>	<b>41</b>	<b>2,139</b>
<b>Totals</b>	<b>2,789</b>	<b>2,636</b>	<b>92</b>	<b>5,517</b>

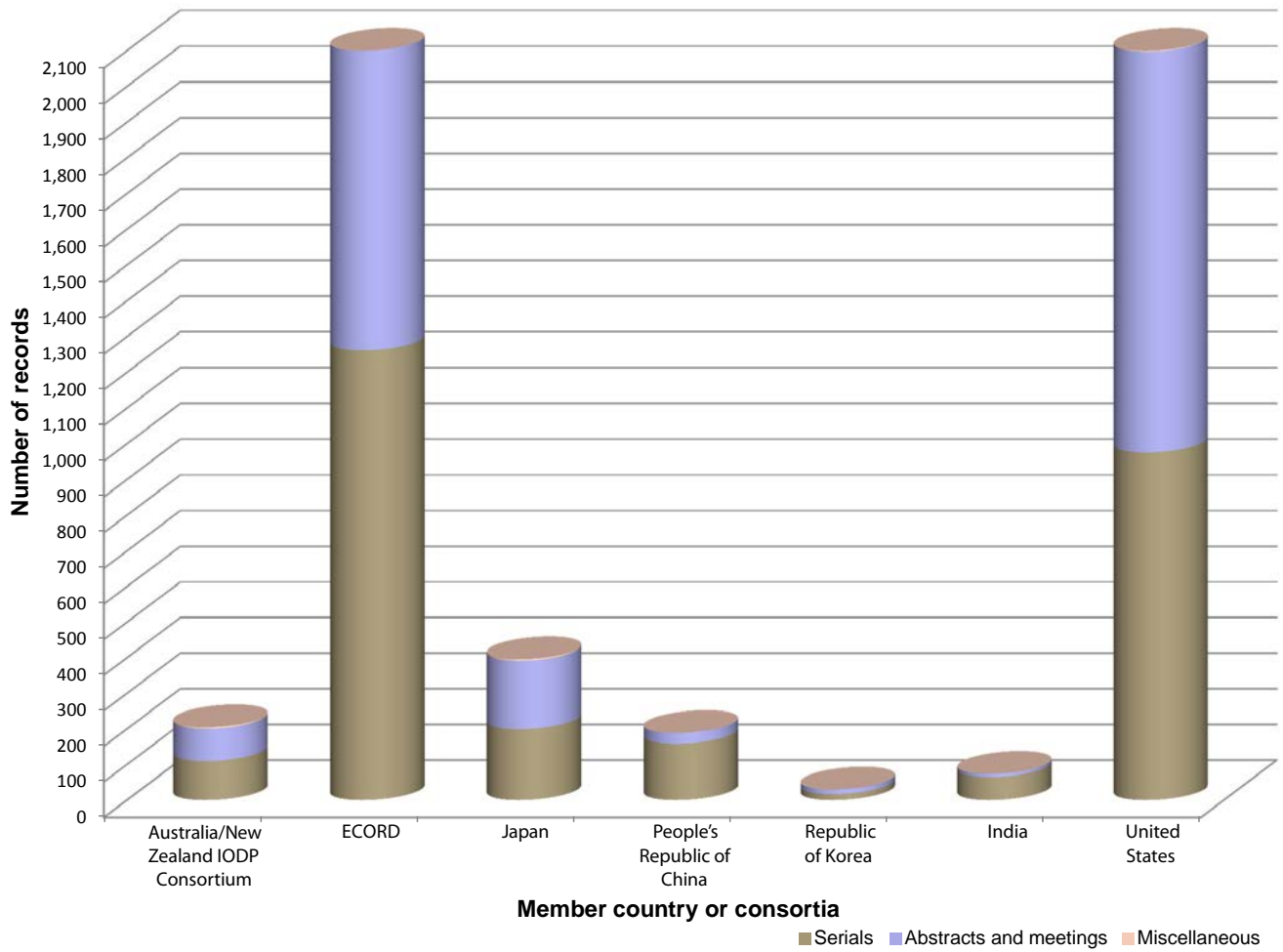
**Note:** Totals include citations for which author affiliation data are available. ECORD = European Consortium for Ocean Research Drilling.

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**).

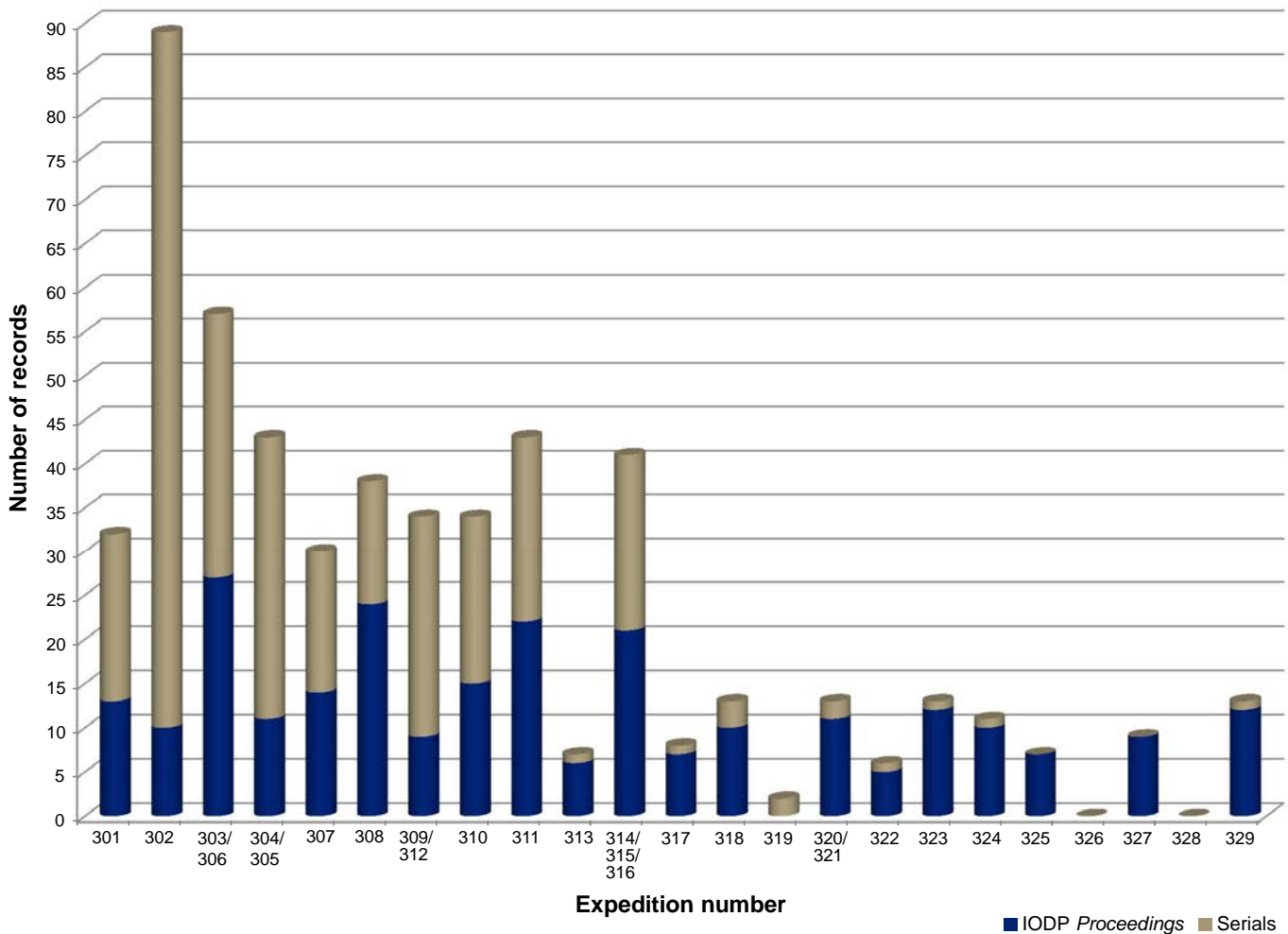
Postexpedition research continues for many years after the initial results are published in the *Proceedings* volume, and subsequent annual citation reports reflect publication of ongoing research from each IODP expedition (**Table 3; Figure 6**). Scientific research from DSDP and ODP will also continue 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, 2003–2011.



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

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

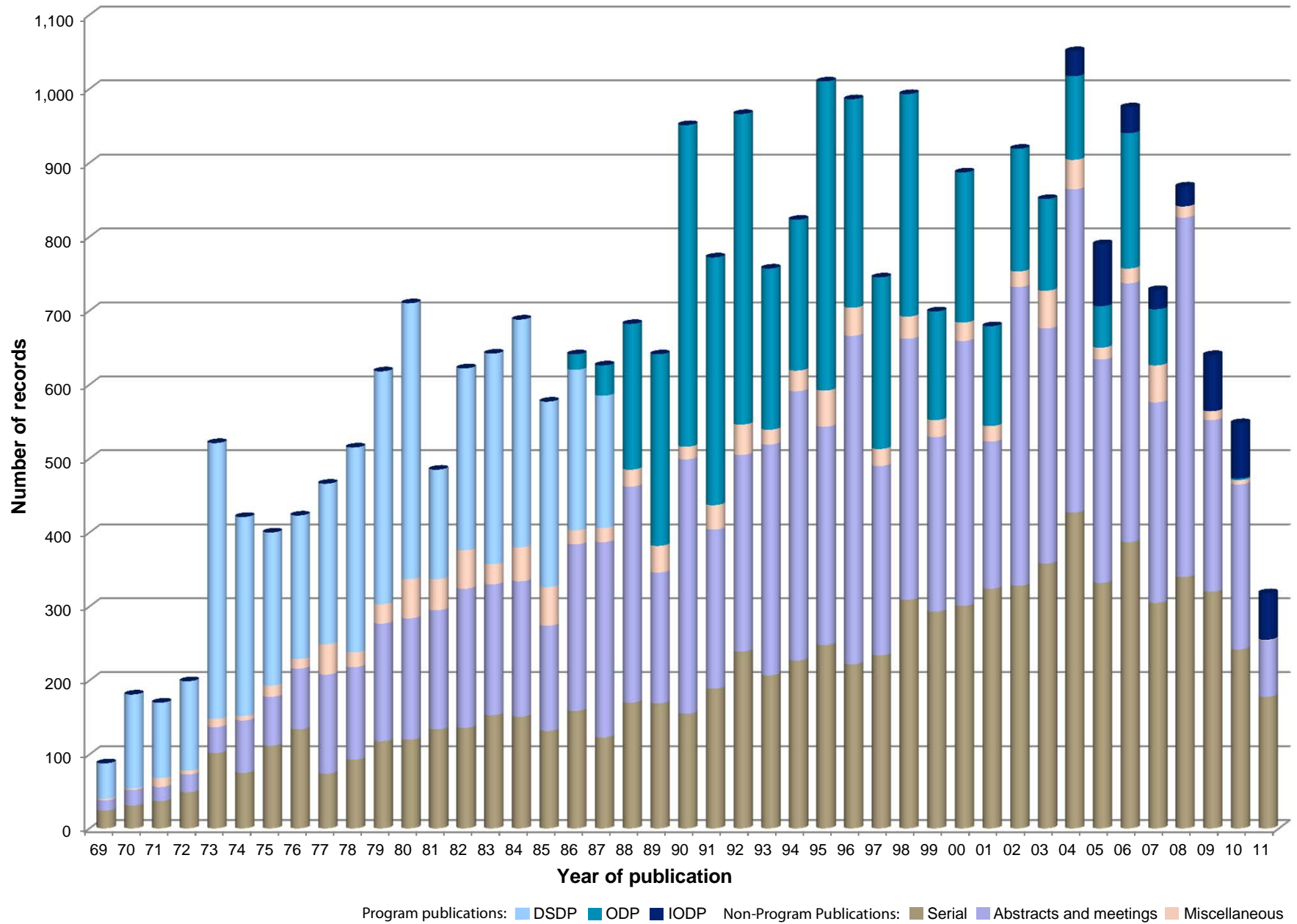
Annual citation reports also include the number of Program *Proceedings* and non-Program serial publications representing DSDP, ODP, and IODP research undertaken in areas of continued interest during the life of the Program (**Figure 8**).

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](mailto:Citations@iodp.tamu.edu).

**Figure 7.** Annual breakdown of Program and non-Program Ocean Drilling Citation Database records, 1969–2011.



2012 Ocean Drilling Citation Report

**Figure 8.** IODP *Proceedings* and non-Program serial citations representing research undertaken in areas of continued interest by DSDP, ODP, and IODP, 1969–2011.

