

# 2014 Ocean Drilling Citation Report

Covering Citations Related to the  
Deep Sea Drilling Project, Ocean Drilling Program,  
Integrated Ocean Drilling Program, and  
International Ocean Discovery Program  
from 1969 through 2013

Produced by

International Ocean Discovery Program  
Publication Services

September 2014



## Introduction

At the end of each fiscal year, the International Ocean Discovery Program (IODP) Publication Services Department produces the Ocean Drilling Citation Report to provide information on how Deep Sea Drilling Project (DSDP), Ocean Drilling Program (ODP), Integrated Ocean Drilling Program, and IODP research is disseminated into the scientific community through publications. The 2014 Ocean Drilling Citation Report covers citations indexed by the American Geological Institute (AGI) in the Ocean Drilling Citation Database as of June 2014 and “cited-by” statistics obtained through CrossRef and Google Scholar in September 2014.

To illustrate the impact of Program science, the report includes a review of the top 15 peer-reviewed serials publishing Program-related research (Figure 1), a breakdown by expedition of research articles that have cited Integrated Ocean Drilling Program publications or other peer-reviewed research articles that contain primary research from Integrated Ocean Drilling Program expeditions (Figure 2), and the number of published theses based on Program science (Figure 3).

## Citation categories

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, the Integrated Ocean Drilling Program, 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*, *Proceedings of the International Ocean Discovery Program*, and the report and technical note series from each Program.
- **Non-Program** records include publication of scientific research from DSDP, ODP, Integrated Ocean Drilling Program, and IODP in venues other than Program publications.

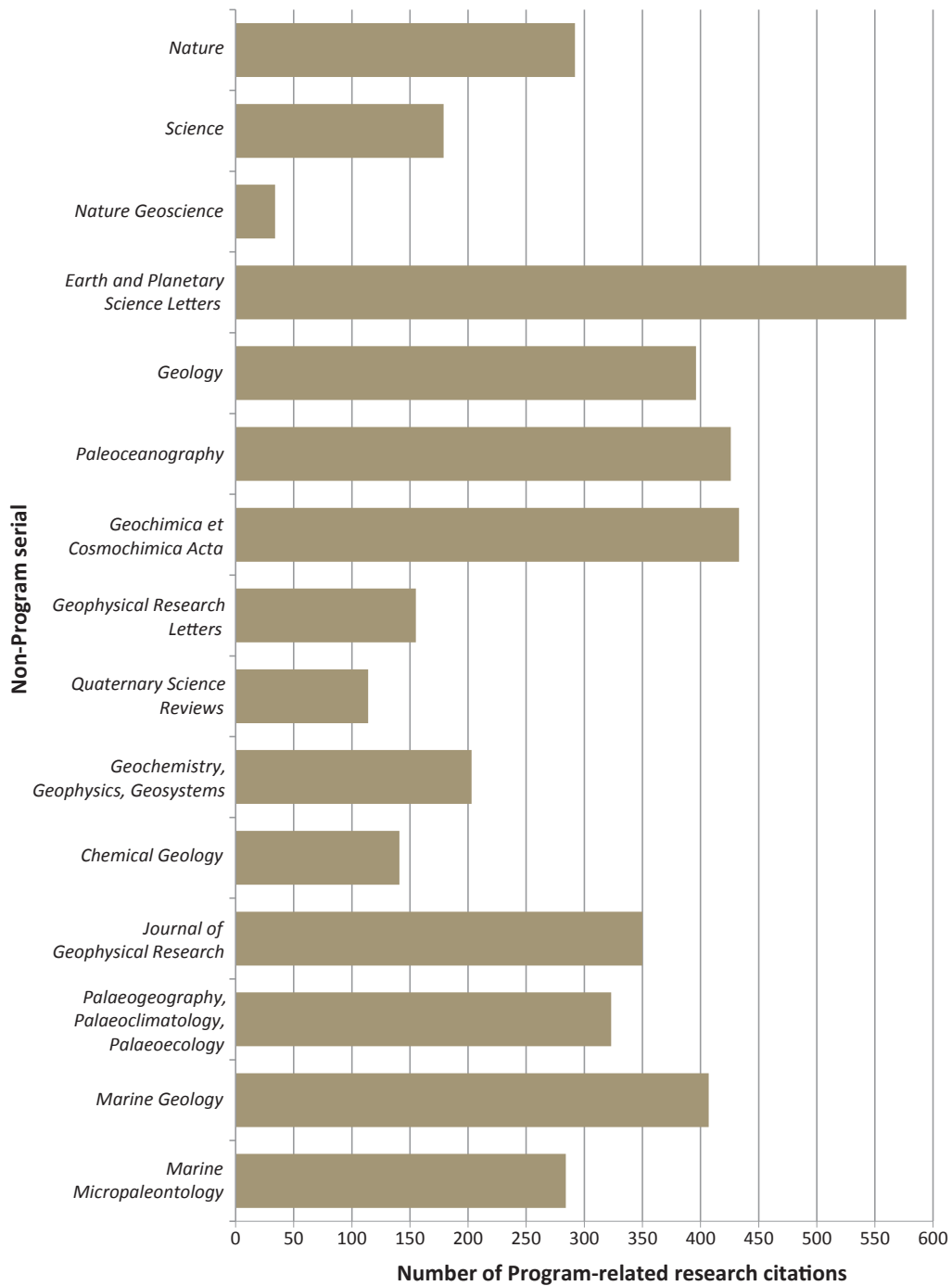
Non-Program publications are further categorized into three groups, “serials,” “abstracts and meetings,” and “miscellaneous”:

- **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*).
- **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.

Figure 1. Top 15 non-Program peer-reviewed serials publishing Program-related research, 1969–2013.

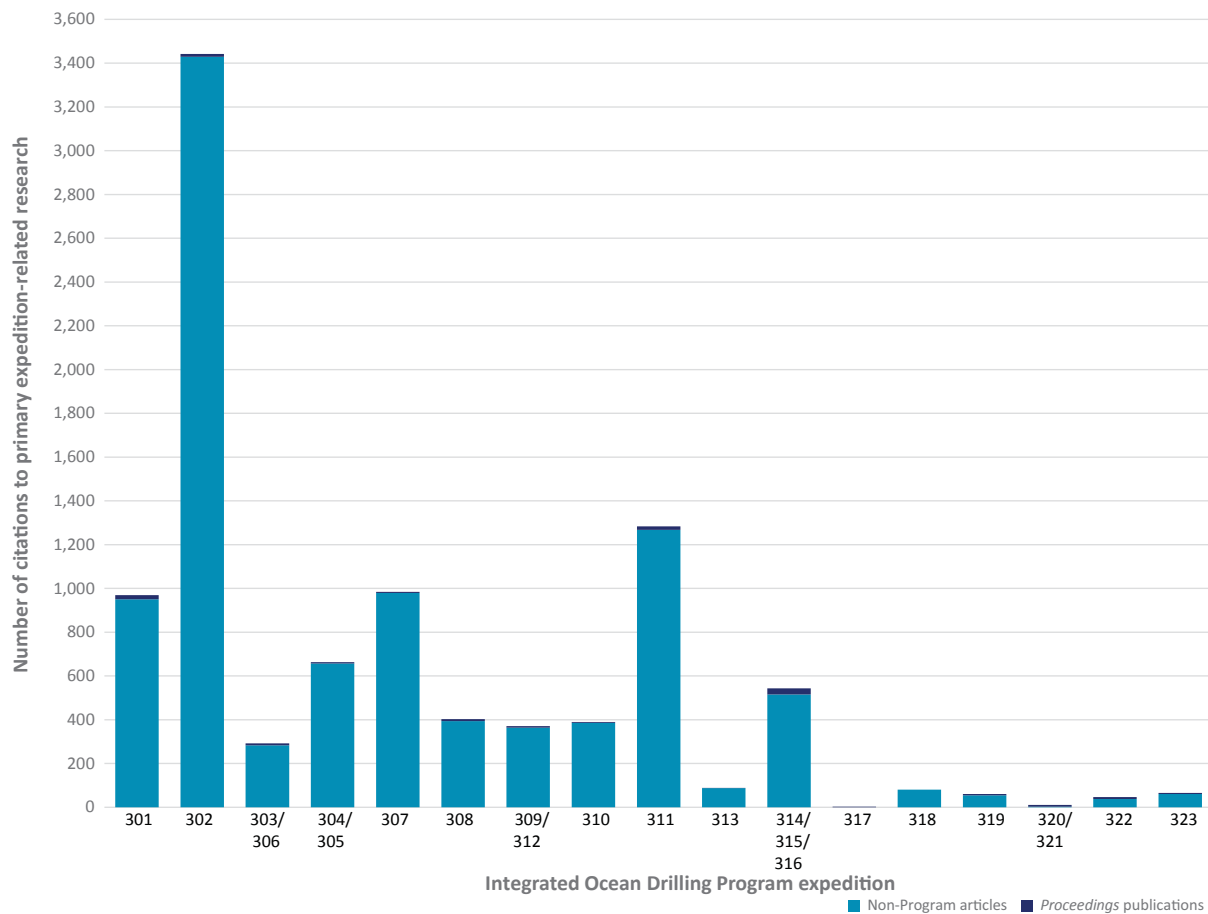


Note: The top 15 serials are determined from their Eigenfactor Article Influence score (eigenfactor.org).

## Cited-by statistics

In 2013, IODP instituted a web-based cited-by linking function that parses metadata from CrossRef’s free Cited-by Linking service to provide links from *Proceedings* table of contents pages to scientific articles or books that cite the Program publication. Cited-by data for Program publications were gathered from these table of contents links. Cited-by data for non-Program publications were collected through Google Scholar searches of publications related to Program expeditions. A review of these data shows that publications containing primary research from Integrated Ocean Drilling Program expeditions were cited by other research articles nearly 9,600 times between 2003 and 2013.

Figure 2. Number of times Integrated Ocean Drilling Program publications or non-Program articles that contain primary research from Integrated Ocean Drilling Program expeditions have been cited by other research articles, 2003–2013.



Note: Cited-by statistics from non-Program articles are derived from Google Scholar (scholar.google.com). Cited-by statistics for Integrated Ocean Drilling Program publications are derived through data parsed from the free Cross-Ref Cited-by Linking service.

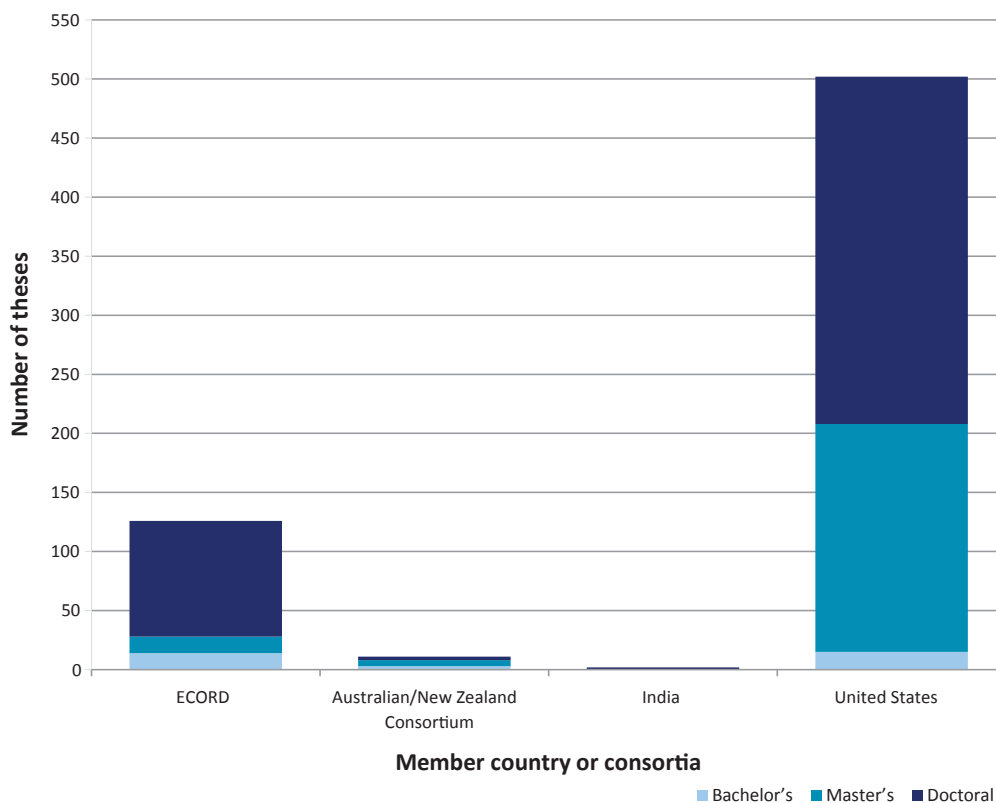
## Overview of the Ocean Drilling Citation Database

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, 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 Ocean Drilling Citation Database in collaboration with IODP. The database is created by using a series of keywords to extract citation records related to Program 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.

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



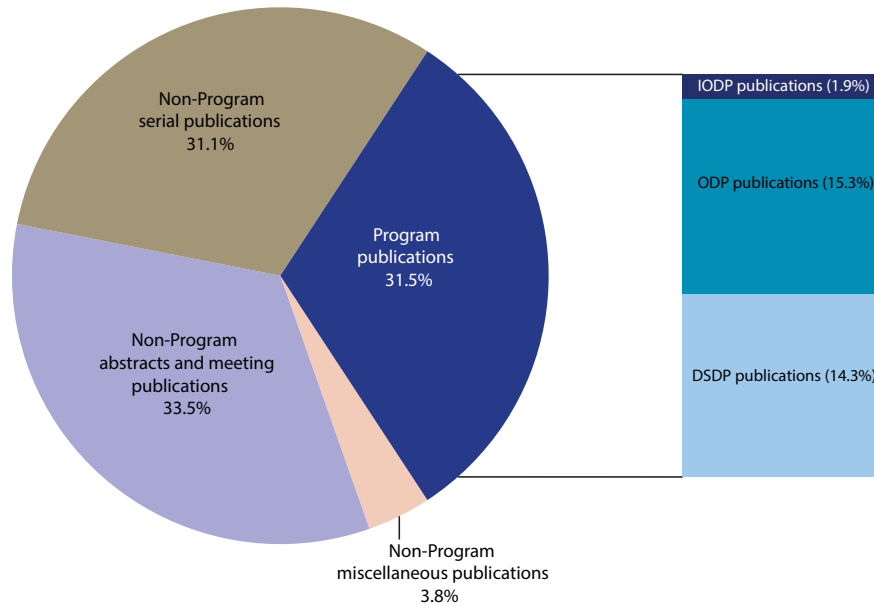
Note: See Table 1 for consortia member countries.

The 2014 database update contains 29,803 records containing metadata from citations published from 1969 to 2013, comprising ~32% Program and ~68% non-Program citations. Non-Program publications are approximately evenly distributed between serial publications and abstracts and meetings (Figure 4).

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 103 different countries have authored or contributed to non-Program publications.

Figure 4. 2014 overview of citation records in the Ocean Drilling Citation Database (total = 29,803).



Approximately 17,500 of the non-Program publications (~59% of total publications listed in the database) are first-authored by scientists from IODP member countries (Table 1), and approximately 8,051 of these non-Program research papers have appeared in peer-reviewed serial publications (Table 2).

Since the inception of the Integrated Ocean Drilling Program in 2003, first-authors from IODP member countries and member consortia have published approximately 6,649 papers in non-Program publications (Figure 5).

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, Integrated Ocean Drilling Program, and IODP) research are included in the database, but scientific publications throughout the world are represented.

Integrated Ocean Drilling Program and IODP expedition reports are published in the *Proceedings* volumes, 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 Integrated Ocean Drilling Program and IODP expedition (Figure 6). Scientific research from DSDP, ODP, and the Integrated Ocean Drilling Program 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).

Annual citation reports also include the number of Program *Proceedings* and non-Program serial publications representing research undertaken in support of science themes from the 2003–2013 Integrated Ocean Drilling Program Initial Science Plan and the IODP 2013–2023 Science Plan (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, Integrated Ocean Drilling Program, or IODP);
- leg, expedition, complex science program, or geographic area;

Table 1. Number of DSDP-, ODP-, Integrated Ocean Drilling Program-, and IODP-related contributions to non-Program publications by authors affiliated with IODP member countries, 1969–2013.

Member country or consortia	Publications contributed to	First-authored publications
<b>Australia/New Zealand Consortium</b>	<b>1006</b>	<b>584</b>
Australia	699	355
New Zealand	307	229
<b>Brazil</b>	<b>45</b>	<b>35</b>
<b>ECORD</b>	<b>11,364</b>	<b>6,771</b>
Austria	57	16
Belgium	144	70
Canada	1,249	750
Denmark/Greenland	184	73
Finland	39	34
France	1,748	1,042
Germany	2,708	1,910
Iceland	15	5
Ireland	30	14
Israel	42	29
Italy	707	399
Netherlands	501	277
Norway	411	207
Poland	38	16
Portugal	72	21
Sweden	321	155
Switzerland	434	232
United Kingdom	2,664	1,521
<b>India</b>	<b>213</b>	<b>179</b>
<b>Japan</b>	<b>1,459</b>	<b>992</b>
<b>People's Republic of China</b>	<b>406</b>	<b>314</b>
<b>South Korea</b>	<b>108</b>	<b>48</b>
<b>United States</b>	<b>10,042</b>	<b>8,604</b>
<b>Totals</b>	<b>24,643</b>	<b>17,527</b>

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

- publication year; or
- specific serial publication.

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

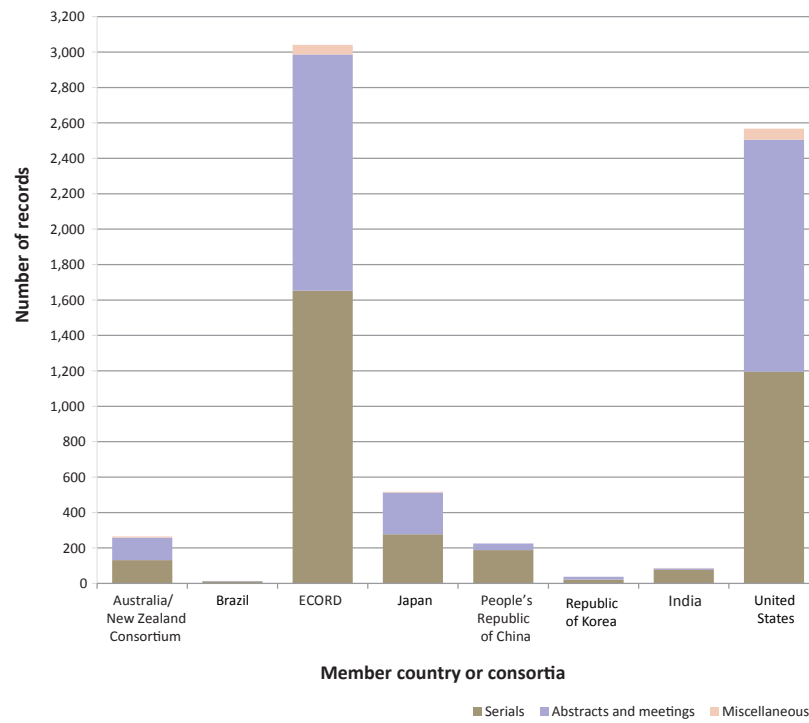
Table 2. Number of DSDP-, ODP-, Integrated Ocean Drilling Program-, and IODP-related non-Program publications first-authored by scientists affiliated with IODP member countries, 1969–2013.

Member country or consortia	Serials	Abstracts/ meetings	Miscellaneous	Total
<b>Australian/New Zealand Consortium</b>	<b>270</b>	<b>297</b>	<b>17</b>	<b>584</b>
Australia	157	187	11	355
New Zealand	113	110	6	229
<b>Brazil</b>	<b>14</b>	<b>21</b>	<b>0</b>	<b>35</b>
<b>ECORD</b>	<b>3,266</b>	<b>3,383</b>	<b>123</b>	<b>6,772</b>
Austria	5	10	1	16
Belgium	33	32	5	70
Canada	278	463	9	750
Denmark	42	31	0	73
Finland	8	25	1	34
France	547	479	16	1,042
Germany	789	1,082	39	1,910
Iceland	4	1	0	5
Ireland	5	9	0	14
Israel	20	8	1	29
Italy	212	183	4	399
Netherlands	171	101	5	277
Norway	110	93	4	207
Poland	13	3	0	16
Portugal	6	14	1	21
Sweden	86	68	2	156
Switzerland	111	116	5	232
United Kingdom	826	665	30	1,521
<b>India</b>	<b>147</b>	<b>24</b>	<b>8</b>	<b>179</b>
<b>Japan</b>	<b>535</b>	<b>424</b>	<b>33</b>	<b>992</b>
<b>People's Republic of China</b>	<b>261</b>	<b>53</b>	<b>0</b>	<b>314</b>
<b>South Korea</b>	<b>29</b>	<b>19</b>	<b>0</b>	<b>48</b>
<b>United States</b>	<b>3,529</b>	<b>4,892</b>	<b>183</b>	<b>8,604</b>
<b>Totals</b>	<b>8,051</b>	<b>9,113</b>	<b>364</b>	<b>17,528</b>

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



Figure 5. DSDP-, ODP-, and IODP-related non-Program publications based on first-author affiliation of IODP member countries and consortia, 2003–2013.



Note: See Table 1 for consortia member countries.

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

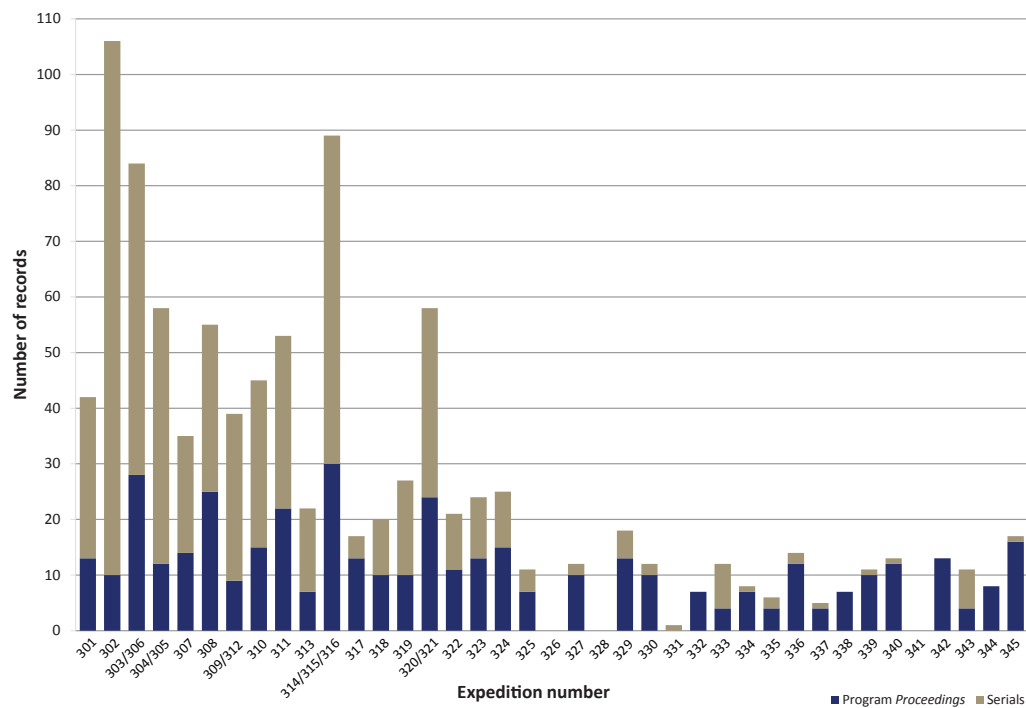


Figure 7. Annual breakdown of Program and non-Program Ocean Drilling Citation Database records, 1969–2013.

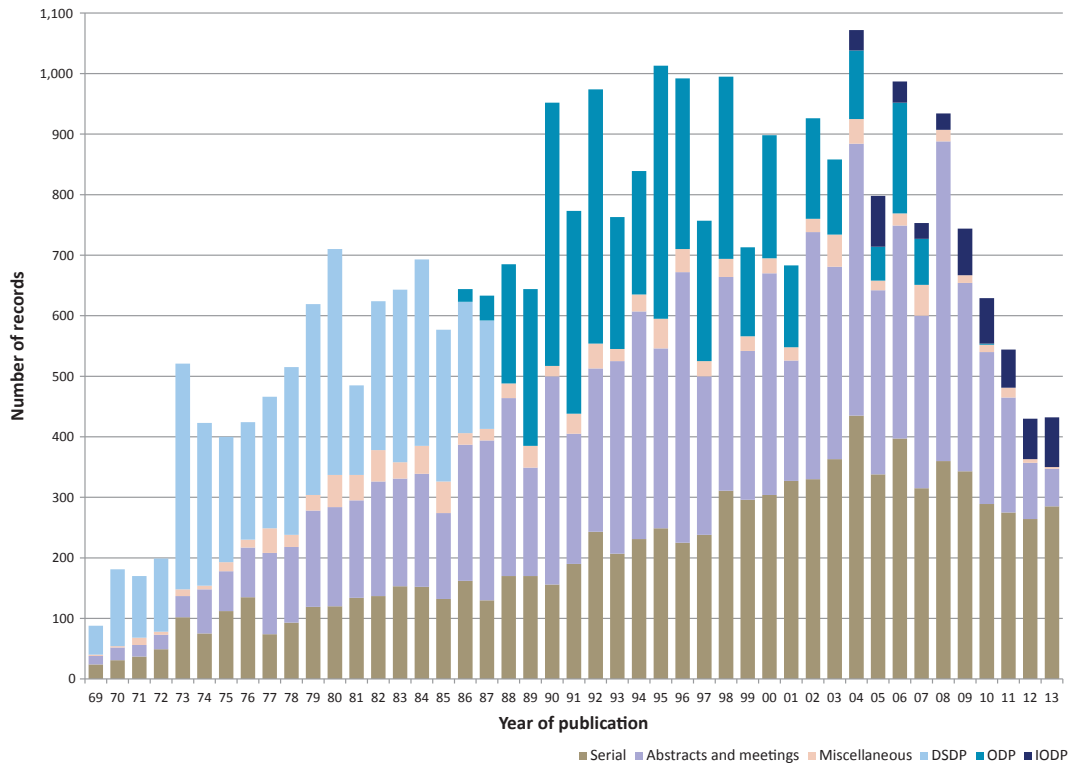


Figure 8. *Proceedings* and non-Program serial citations representing research undertaken in support of science themes from the IODP 2013–2023 Science Plan (blue) and the 2003–2013 Integrated Ocean Drilling Program Initial Science Plan (green).

