

# **2010 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 2009**

**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). Compilation of the database began in 1999, and it has been online since August 2002. The first citation records related to IODP were included in the database in 2006. In February 2010, at the time this study was compiled, the database contained 26,014 citation records.

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 obtains citation information from international data-exchange partners in Australia, Canada, China, Finland, Germany, Hungary, New Zealand, Poland, Russia, Spain, and the United Kingdom. AGI also has arrangements to acquire metadata with many publishers, including 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. Users can also access the database from the IODP publications Web site ([www.iodp.org/scientific-publications/](http://www.iodp.org/scientific-publications/)). 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. Since 1999, non-Program serial publications that have published the largest number of Program-related research studies include *Earth and Planetary Science Letters*; *Marine Geology*; *Geology*; *Journal of Geophysical Research*; *Paleoceanography*; *Palaeogeography*, *Palaeoclimatology*, *Palaeoecology*; *Nature*; *Special Publications of the Geological Society of London*; *Marine Micropaleontology*; *Geochimica et Cosmochimica Acta*; *Science*; *Geochemistry*, *Geophysics*, *Geosystems*; *Geochemical Research Letters*; *Micropaleontology*; and *Geophysical Monograph*.

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 (e.g., *Nature*, *Science*, or *Journal of Geophysical Research*) 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.

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.

## 2010 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. The IODP Publication Services Department produces annual studies of the database based on the citations that exist in the AGI database as of February of each calendar year. The report is available online by the end of each fiscal year.

The 2010 database CD-ROM contains 26,014 records containing metadata from citations published from 1969 to 2009, comprising ~35% Program and ~65% non-Program citations. Non-Program publications are approximately evenly distributed between serial publications and abstracts and meetings (**Figures 1, 2**).

Scientists from 99 different countries have contributed to Program publications, and scientists from 95 different countries have authored or contributed to non-Program publications (**Table 1**). Some countries (e.g., the Soviet Union [USSR], Czechoslovakia, etc.) have divided into new geographic and governmental entities since the inception of the Ocean Drilling Citation database. 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 of publication of the research.

Approximately 20,000 non-Program publications (~77% of total publications listed in the database) are first-authored by scientists from IODP member countries (**Table 2**), and approximately 9,400 of these non-Program research papers have appeared in peer-reviewed serial publications. Since the inception of IODP in 2003, first-authors from IODP member countries and member consortia have published approximately 5,400 papers in non-Program publications (**Table 3, Figure 3**).

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 can be published in either venue (**Figure 4**). Postexpedition research continues for many years after the

initial results are published in the *Proceedings* volume, and subsequent annual citation reports will reflect publication of ongoing research from each IODP expedition.

Scientific research from DSDP and ODP continues to date and will continue to be published in non-Program publications in the years to come (**Figures 5, 6**). These publications will also be reflected in future annual citation reports.

Beginning this year, annual citation reports will also include the number of IODP *Proceedings* and expedition-related non-Program serial publications representing complex projects undertaken during the life of the Program (**Figure 7**).

IODP funding agencies, implementing organizations, program management offices, or individual member countries may request individualized citation reports. Custom reports 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 an individualized report, contact [CitationStats@iodp.tamu.edu](mailto:CitationStats@iodp.tamu.edu).

## 2010 Ocean Drilling Citation Report

**Table 1.** Number of DSDP-, ODP-, and IODP-related contributions to non-Program publications by authors from countries represented in the Ocean Drilling Citation Database.

Country	Publications contributed to	Publications first-authored by	Country	Publications contributed to	Publications first-authored by
Argentina	34	24	N. Caledonia	2	3
Australia	552	286	Namibia	385	1
Austria	46	12	The Netherlands	344	199
Azerbaijan	1	1	New Zealand	254	169
Barbados	2	1	Nicaragua	3	0
Belarus	1	0	Nigeria	4	3
Belgium	108	37	Norway	334	169
Botswana	1	1	Oman	5	1
Brazil	38	24	Papua New Guinea	5	0
Brunei	4	0	Pakistan	5	1
Bulgaria	5	4	Panama	2	1
Canada	1119	656	Peru	3	0
Chile	15	2	Philippines	12	5
Colombia	17	8	Poland	20	9
Costa Rica	4	1	Portugal	50	16
Cuba	7	0	P. R. China	323	233
Cyprus	6	0	Puerto Rico	11	5
Czech Republic	9	1	Reunion	2	1
Czechoslovakia	3	1	Romania	9	1
Denmark/Greenland	138	59	Russian Federation	196	146
Dominican Republic	1	0	Saudi Arabia	1	0
Ecuador	1	0	Senegal	1	0
Egypt	6	4	Seychelles	1	1
Estonia	1	1	Slovakia/Slovak Rep.	2	1
Ethiopia	3	0	Slovenia	4	0
Fiji	1	0	South Africa	33	12
Finland	32	23	South Korea	58	31
French Polynesia	3	0	Solomon Islands	2	1
France	1461	849	Spain	230	112
Germany	2146	1371	Sri Lanka	1	0
Greece	10	7	Sweden	253	134
Hungary	8	6	Switzerland	360	180
Iceland	14	5	Taiwan	54	33
India	166	145	Tanzania	6	3
Indonesia	6	3	Thailand	2	1
Iran	3	1	Tonga	2	0
Iraq	1	0	Trinidad/Tobago	2	0
Ireland	21	6	Tunisia	4	3
Israel	39	24	Turkey	12	5
Italy	604	304	United Kingdom	2180	1174
Jamaica	6	2	Ukraine	3	3
Japan	1077	700	United Arab Emirates	4	2
Lebanon	1	0	USA	9049	7475
Libya	1	0	USSR	144	124
Malaysia	1	1	Venezuela	3	2
Malta	2	2	Vietnam	1	1
Mexico	57	24	Yemen	1	0
Morocco	5	2			

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

**Table 2.** Non-Program citations first-authored by scientists affiliated with IODP member countries.

Member country or consortia	Serials	Abstracts/ meetings	Miscellaneous	Total
<b>CDEX (Japan)</b>	<b>402</b>	<b>265</b>	<b>33</b>	<b>700</b>
<b>ECORD</b>	<b>2,566</b>	<b>2,632</b>	<b>78</b>	<b>5,276</b>
Austria	3	8	1	12
Belgium	18	19	0	37
Canada	244	400	6	650
Denmark	33	26	0	59
Finland	3	19	1	23
France	441	386	22	849
Germany	590	752	4	1,346
Iceland	4	1	0	5
Ireland	2	4	0	6
Italy	156	147	1	304
Netherlands	126	71	2	199
Norway	93	73	3	169
Portugal	2	13	2	17
Spain	62	50	0	112
Sweden	76	56	2	134
Switzerland	83	93	4	180
United Kingdom	630	514	30	1,174
<b>USIO (USA)</b>	<b>3,099</b>	<b>4,222</b>	<b>154</b>	<b>7,475</b>
<b>People's Republic of China</b>	<b>202</b>	<b>31</b>	<b>0</b>	<b>233</b>
<b>ARC</b>	<b>217</b>	<b>227</b>	<b>11</b>	<b>455</b>
Australia	122	156	8	286
New Zealand	95	71	3	169
<b>South Korea</b>	<b>21</b>	<b>10</b>	<b>0</b>	<b>31</b>
<b>India</b>	<b>116</b>	<b>23</b>	<b>6</b>	<b>145</b>
<b>Totals</b>	<b>9,406</b>	<b>10,269</b>	<b>371</b>	<b>20,046</b>

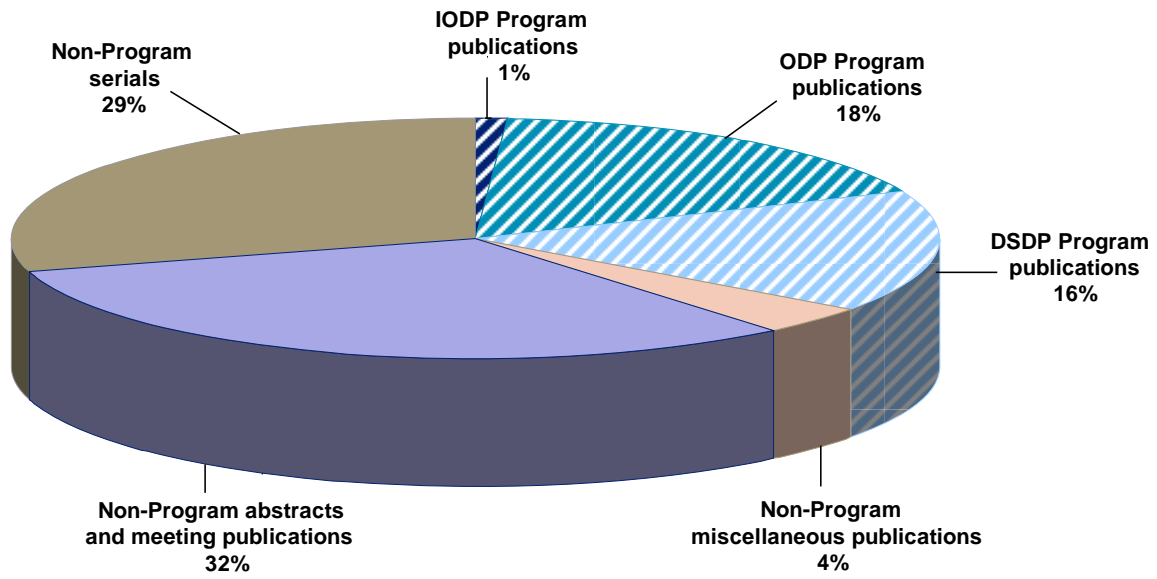
Notes: CDEX = Center for Deep Earth Exploration (funded by Ministry of Education, Culture, Sports, Science, and Technology, Japan); ECORD = European Consortium for Ocean Research Drilling; USIO = United States Implementing Organization (funded by U.S. National Science Foundation). ARC = Australian Research Council (funded by New Zealand Institute for Geological and Nuclear Sciences and Australian/New Zealand Consortium). People's Republic of China participation is funded by Ministry of Science and Technology, People's Republic of China; South Korea participation is funded by Korea Institute of Geoscience and Mineral Resources; and India participation is funded by Ministry of Earth Sciences (MoES), India.

**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, 2003–2009.

Member country or consortia	Serials	Abstracts/ meetings	Miscellaneous	Total
<b>CDEX (Japan)</b>	<b>144</b>	<b>85</b>	<b>4</b>	<b>233</b>
<b>ECORD</b>	<b>895</b>	<b>626</b>	<b>43</b>	<b>1,564</b>
Austria	1	2	0	3
Belgium	12	7	0	19
Canada	68	58	4	130
Denmark	12	1	0	13
Finland	1	11	1	13
France	112	59	4	175
Germany	233	205	11	449
Iceland	2	1	0	3
Ireland	1	2	0	3
Italy	79	51	0	130
Netherlands	51	27	2	80
Norway	23	23	3	49
Portugal	1	7	1	9
Spain	30	27	0	57
Sweden	18	8	0	26
Switzerland	32	20	1	53
United Kingdom	219	117	16	352
<b>USIO (USA)</b>	<b>757</b>	<b>782</b>	<b>37</b>	<b>1,576</b>
<b>People's Republic of China</b>	<b>132</b>	<b>16</b>	<b>0</b>	<b>148</b>
<b>ARC</b>	<b>83</b>	<b>65</b>	<b>4</b>	<b>152</b>
Australia	45	30	4	79
New Zealand	38	35	0	73
<b>South Korea</b>	<b>14</b>	<b>6</b>	<b>0</b>	<b>20</b>
<b>India</b>	<b>15</b>	<b>5</b>	<b>0</b>	<b>20</b>
<b>Totals</b>	<b>3,018</b>	<b>2,276</b>	<b>135</b>	<b>5,429</b>

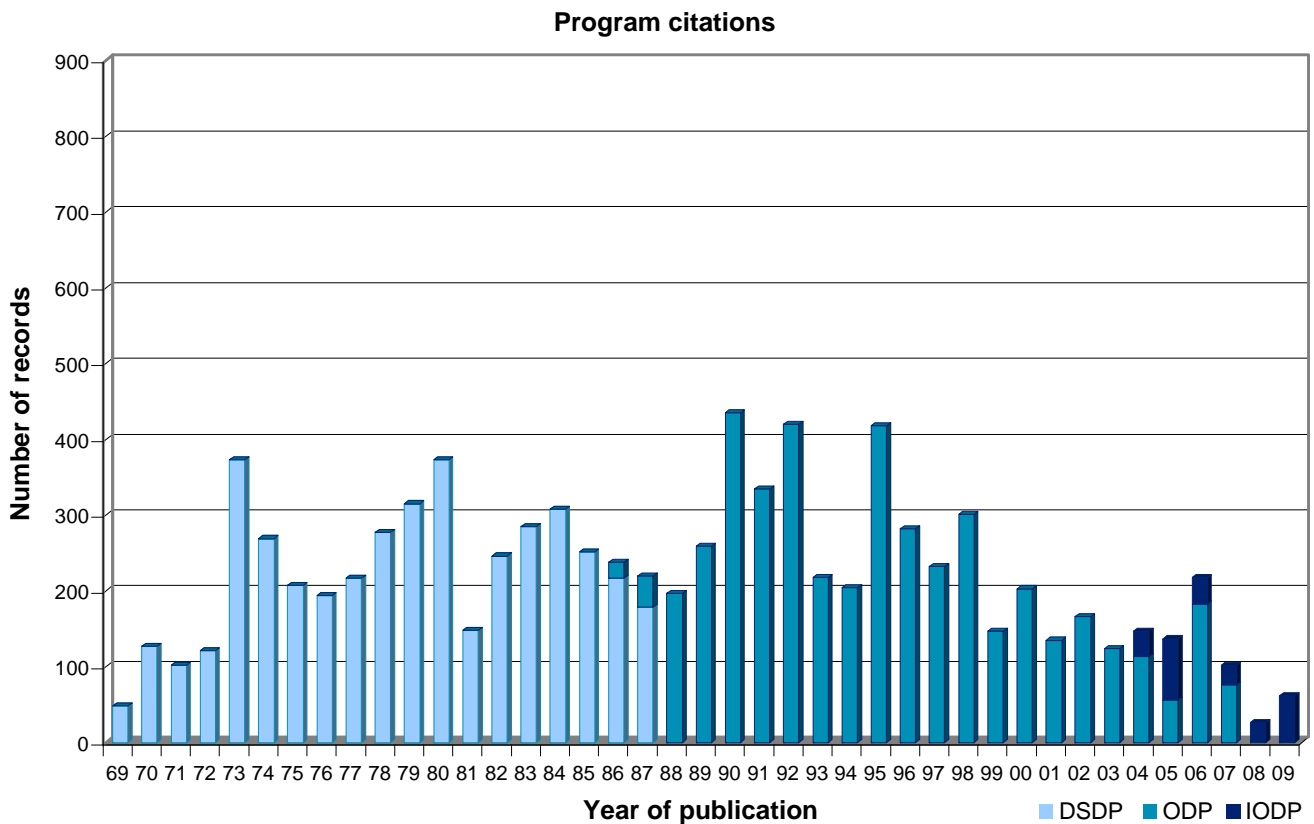
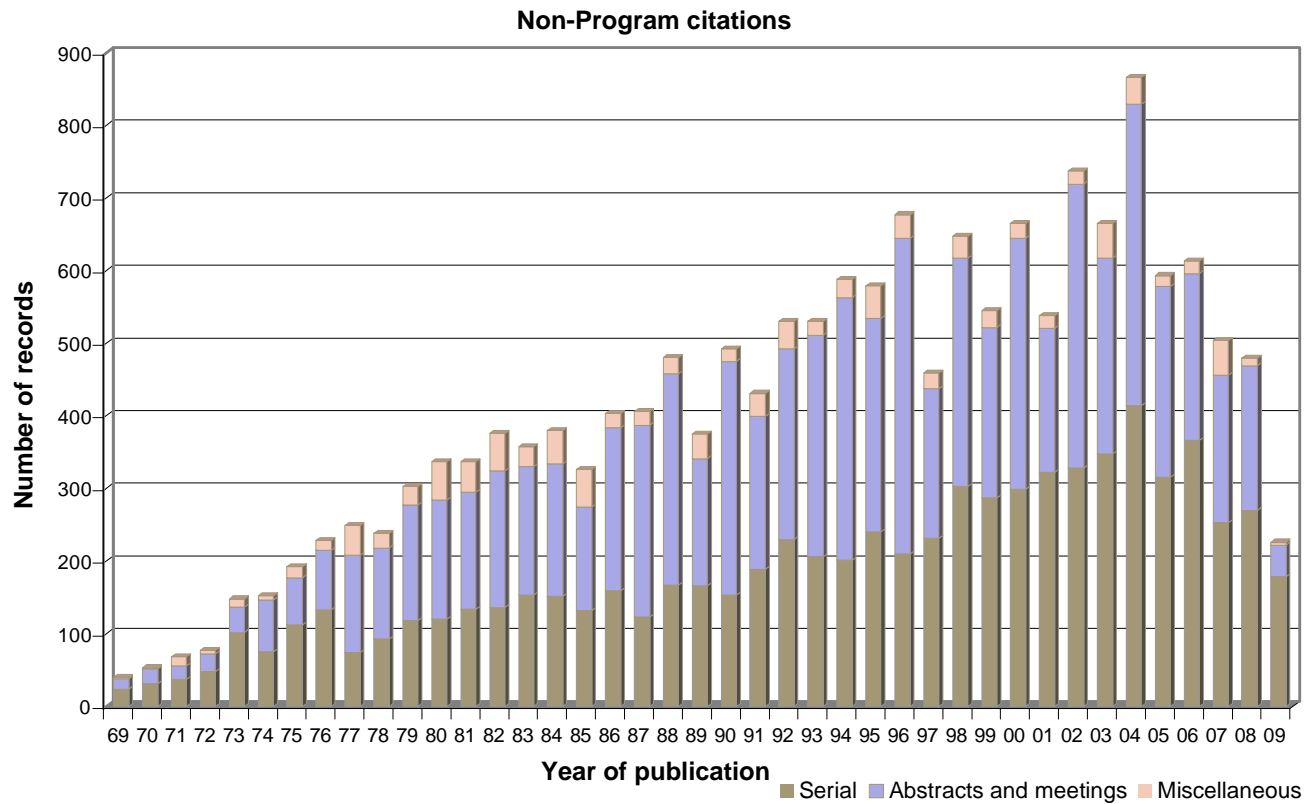
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**Figure 1.** 2010 overview of citation records in the Ocean Drilling Citation Database (total = ~26,000 citations).

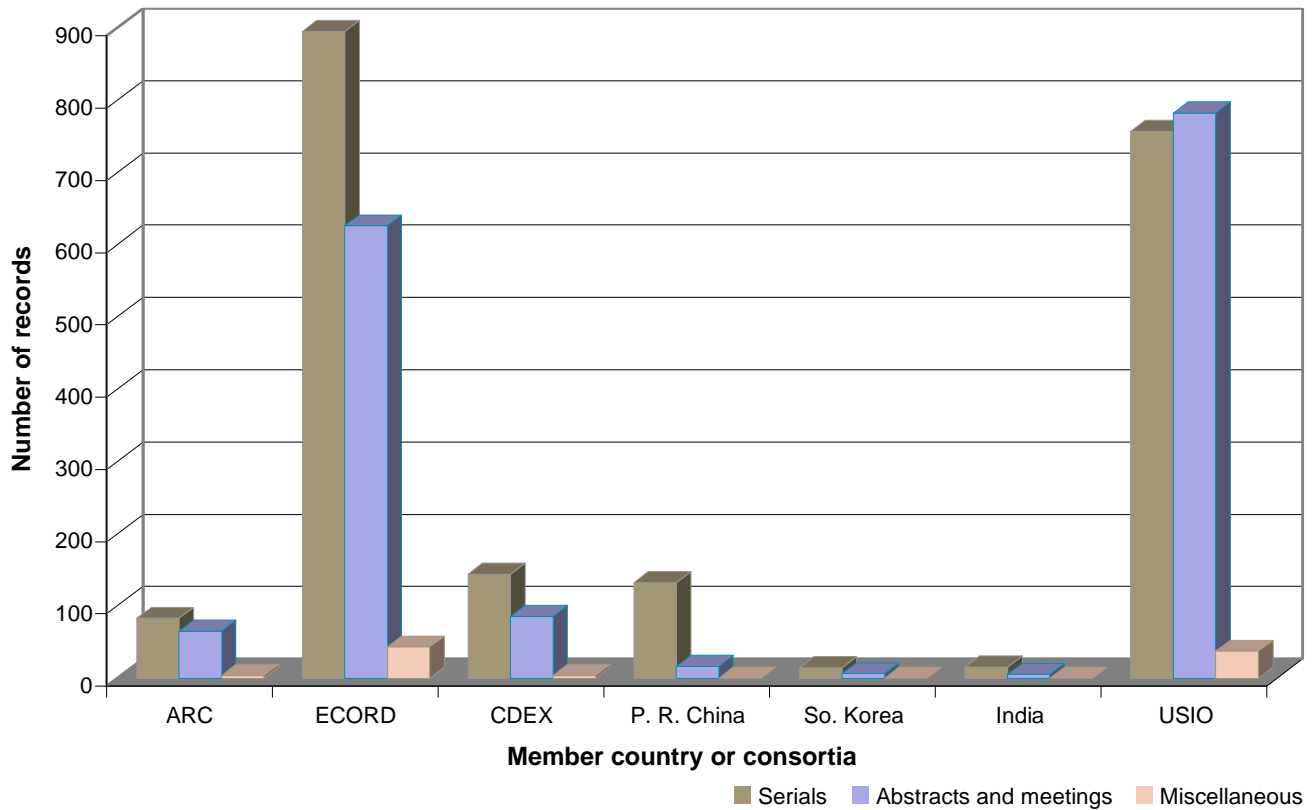




**Figure 2.** Annual breakdown of Ocean Drilling Citation Database Records by non-Program and Program citations.

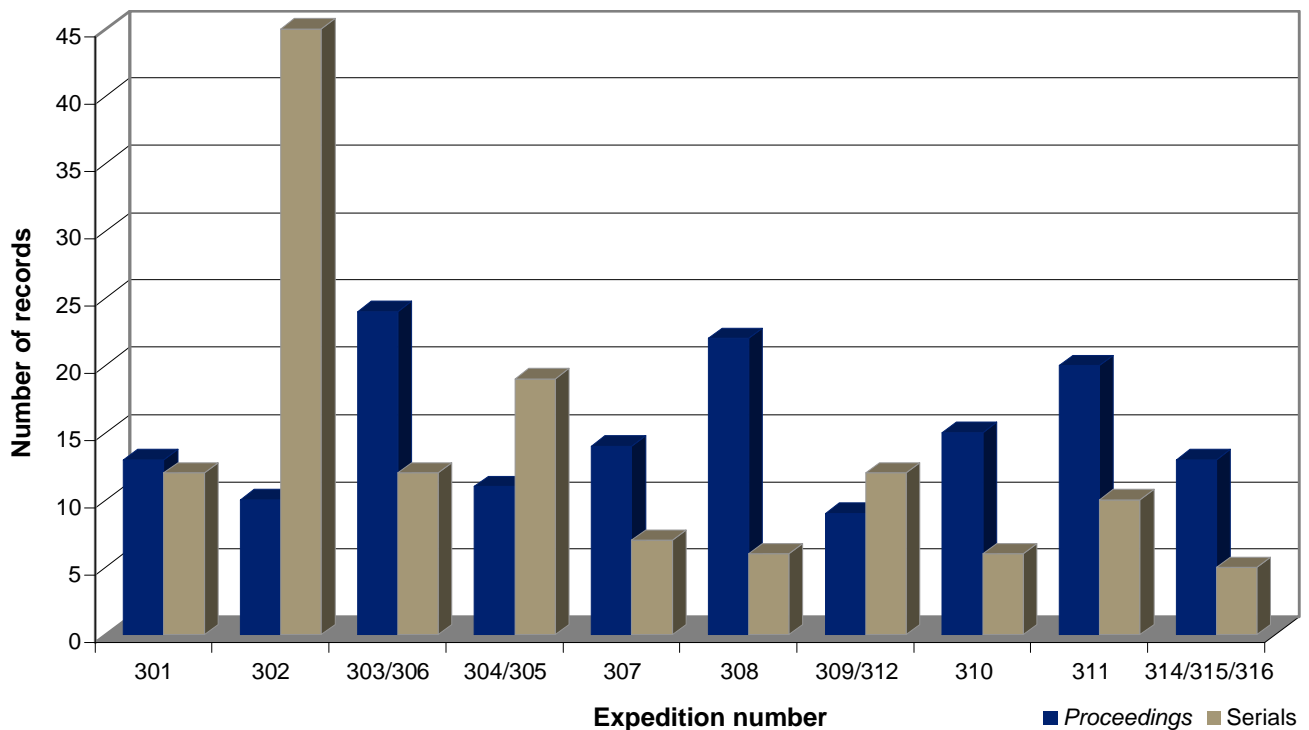


**Figure 3.** Non-Program publications based on first-author affiliation of IODP member countries and consortia (2003–2009).

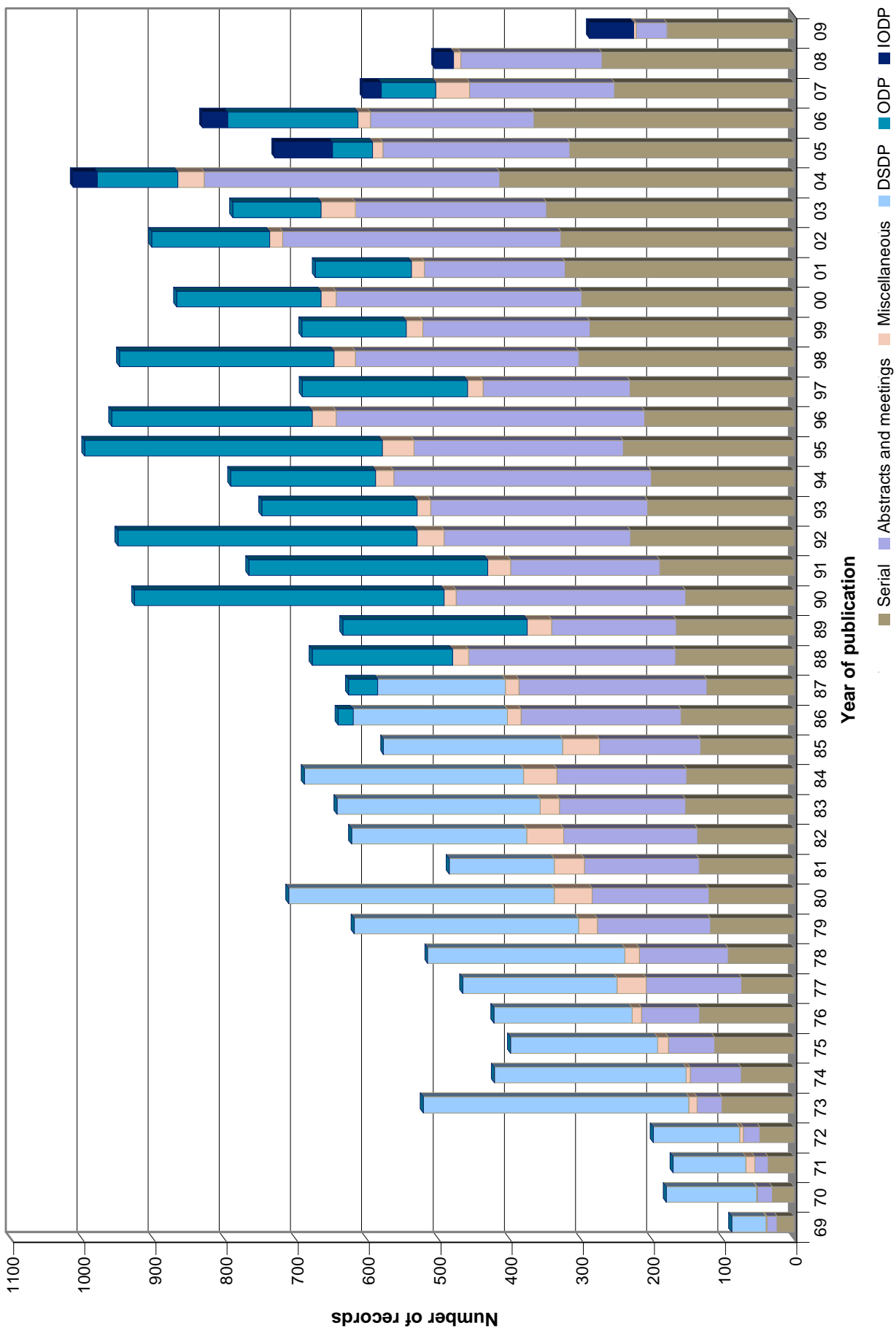


Note: See [Table 2](#) for consortia member countries.

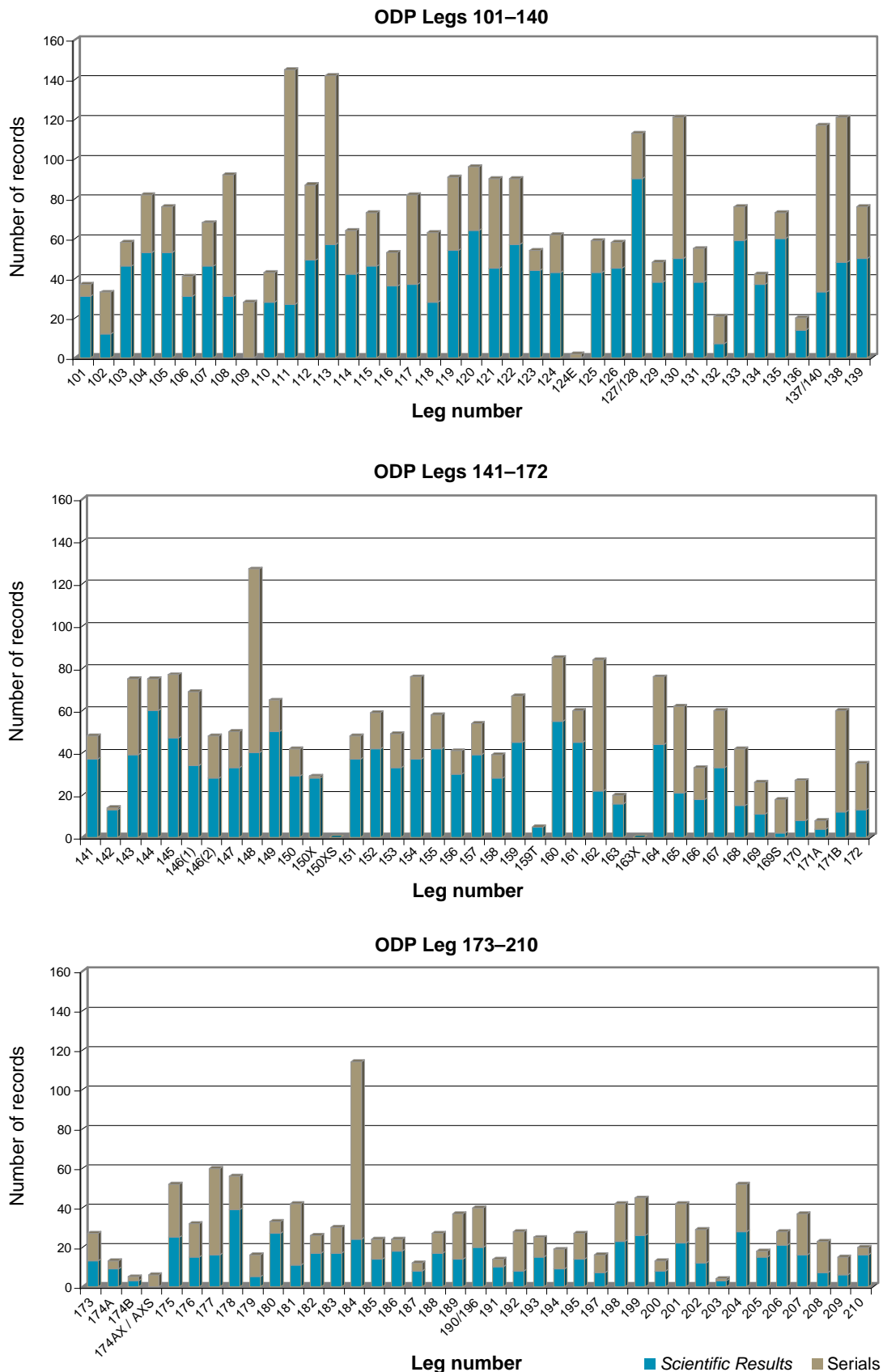
**Figure 4.** Number of IODP *Proceedings* and expedition-related non-Program publications.



**Figure 5.** Annual breakdown of Program and non-Program Ocean Drilling Citation Database records.



**Figure 6.** *Proceedings, Scientific Results* and non-Program serial citations for ODP Legs 101–210.



**Figure 7.** IODP *Proceedings* and expedition-related non-Program serial citations representing complex projects undertaken by DSDP, ODP, and IODP through 2009.

