

2009 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 2008**

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 2009, at the time this study was compiled, the database contained 24,729 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) 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/). 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*; *Marine Micropaleontology*; *Geological Society of London*; *Geochimica et Cosmochimica Acta*; *Science*; *Geochemical Research Letters*; 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 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.

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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 2009 database CD-ROM contains 24,729 records containing metadata from citations published from 1969 to 2008, comprising ~36% Program and ~64% 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 96 different countries have authored or contributed to non-Program publications (**Table 1**). Some of these 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 13,000 non-Program publications (~50% of total publications listed in the database) are first-authored by scientists from IODP member countries (**Table 2**), and approximately 5,900 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 2,950 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 (**Figure 5, Figure 6**). These publications will also be reflected in future annual citation reports.

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.

Table 1. Number of DSDP-, ODP-, and IODP-related records of 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	30	23	N. Caledonia	4	2
Australia	516	274	Namibia	1	0
Austria	40	12	Netherlands	338	170
Azerbaijan	1	0	New Zealand	236	154
Barbados	2	1	Nicaragua	3	0
Belarus	1	0	Nigeria	4	3
Belgium	90	30	Norway	291	153
Botswana	1	1	Oman	3	1
Brazil	36	22	Papua New Guinea	5	0
Brunei	4	0	Pakistan	5	1
Bulgaria	4	3	Panama	2	1
Canada	1,026	606	Peru	3	0
Chile	14	2	Philippines	10	4
Colombia	17	8	Poland	17	8
Costa Rica	3	1	Portugal	45	14
Cuba	6	0	P.R. China	237	158
Cyprus	6	0	Puerto Rico	8	3
Czech Republic	8	1	Romania	6	0
Czechoslovakia	3	1	Russia	179	134
Denmark/Greenland	126	57	Saudi Arabia	1	0
Dominican Republic	1	0	Senegal	1	0
Ecuador	1	0	Seychelles	1	1
Egypt	4	3	Slovakia/Slovak Rep.	2	1
Estonia	1	1	Slovenia	3	0
Ethiopia	3	0	South Africa	29	11
Fiji	1	0	South Korea	50	29
Finland	25	19	Solomon Islands	2	1
French Polynesia	2	0	Spain	194	97
France	1,330	782	Sri Lanka	1	0
Germany	1,899	1,229	Sweden	222	118
Greece	9	7	Switzerland	316	160
Hungary	7	6	Taiwan	49	31
Iceland	13	5	Tanzania	6	3
India	164	140	Thailand	2	1
Indonesia	6	3	Tonga	2	0
Iran	3	1	Trinidad/Tobago	2	0
Ireland	17	6	Tunisia	4	3
Israel	35	22	Turkey	12	5
Italy	553	283	United Kingdom	1,946	1,082
Jamaica	6	2	Ukraine	3	3
Japan	940	613	United Arab Emirates	4	2
Lebanon	1	0	USA	8,412	7,021
Malaysia	1	1	USSR	144	124
Malta	2	2	Venezuela	2	2
Mexico	54	22	Vietnam	1	0
Morocco	5	2	Yemen	1	0

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

Table 2. Number of DSDP-, ODP-, and IODP-related records of non-Program publications first-authored by authors affiliated with IODP member countries.

Member country or consortia	Serials	Abstracts/ meetings	Miscellaneous	Total
CDEX (Japan)	357	223	33	613
ECORD	2,324	2,399	100	4,823
Austria	3	8	1	12
Belgium	14	16	0	30
Canada	230	370	6	606
Denmark	31	26	0	57
Finland	3	15	1	19
France	400	360	22	782
Germany	528	673	28	1,229
Iceland	4	1	0	5
Ireland	2	4	0	6
Italy	140	142	1	283
Netherlands	107	61	2	170
Norway	89	61	3	153
Portugal	2	10	2	14
Spain	53	44	0	97
Sweden	68	48	2	118
Switzerland	75	81	4	160
United Kingdom	575	479	28	1,082
USIO (USA)	2,890	3,978	153	7,021
People's Republic of China	129	29	0	158
ARC	201	216	11	428
Australia	114	152	8	274
New Zealand	87	64	3	154
South Korea	19	10	0	29
Totals	8,445	9,470	408	18,323

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, and South Korea participation is funded by Korea Institute of Geoscience and Mineral Resources.

Table 3. Number of DSDP-, ODP-, and IODP-related records of non-Program publications first-authored by authors affiliated with IODP member countries since the inception of IODP, 2003–2008.

Member country or consortia	Serials	Abstracts/ meetings	Miscellaneous	Total
CDEX (Japan)	106	45	33	184
ECORD	716	451	40	1,207
Austria	1	2	0	3
Belgium	8	4	0	12
Canada	61	45	4	110
Denmark	12	1	0	13
Finland	1	7	1	9
France	88	39	4	131
Germany	184	148	10	342
Iceland	2	1	0	3
Ireland	1	2	0	3
Italy	63	46	0	109
Netherlands	36	17	2	55
Norway	20	12	3	35
Portugal	1	4	1	6
Spain	23	23	0	46
Sweden	12	2	0	14
Switzerland	25	9	1	35
United Kingdom	178	89	14	281
USIO (USA)	622	588	36	1,246
People's Republic of China	129	29	0	158
ARC	70	55	4	129
Australia	39	27	4	70
New Zealand	31	28	0	59
South Korea	12	6	0	18
Totals	2,441	1,680	157	4,278

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, and South Korea participation is funded by Korea Institute of Geoscience and Mineral Resources.

Figure 1. 2009 overview of Ocean Drilling Citation Database records (total = ~25,000 citations).

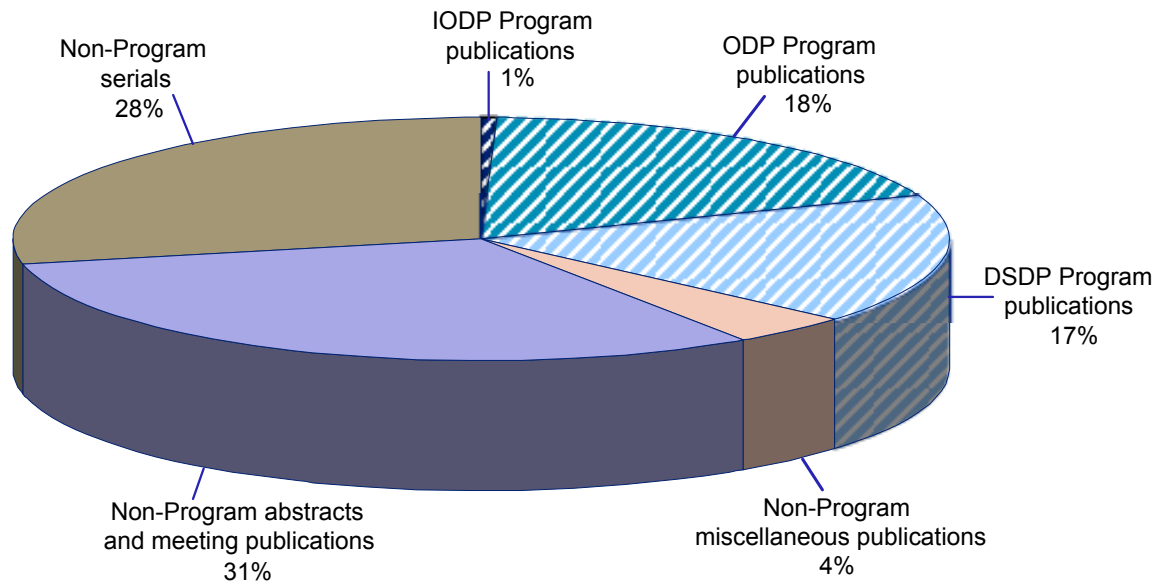


Figure 2. Annual breakdown of Ocean Drilling Citation Database non-Program and Program records.

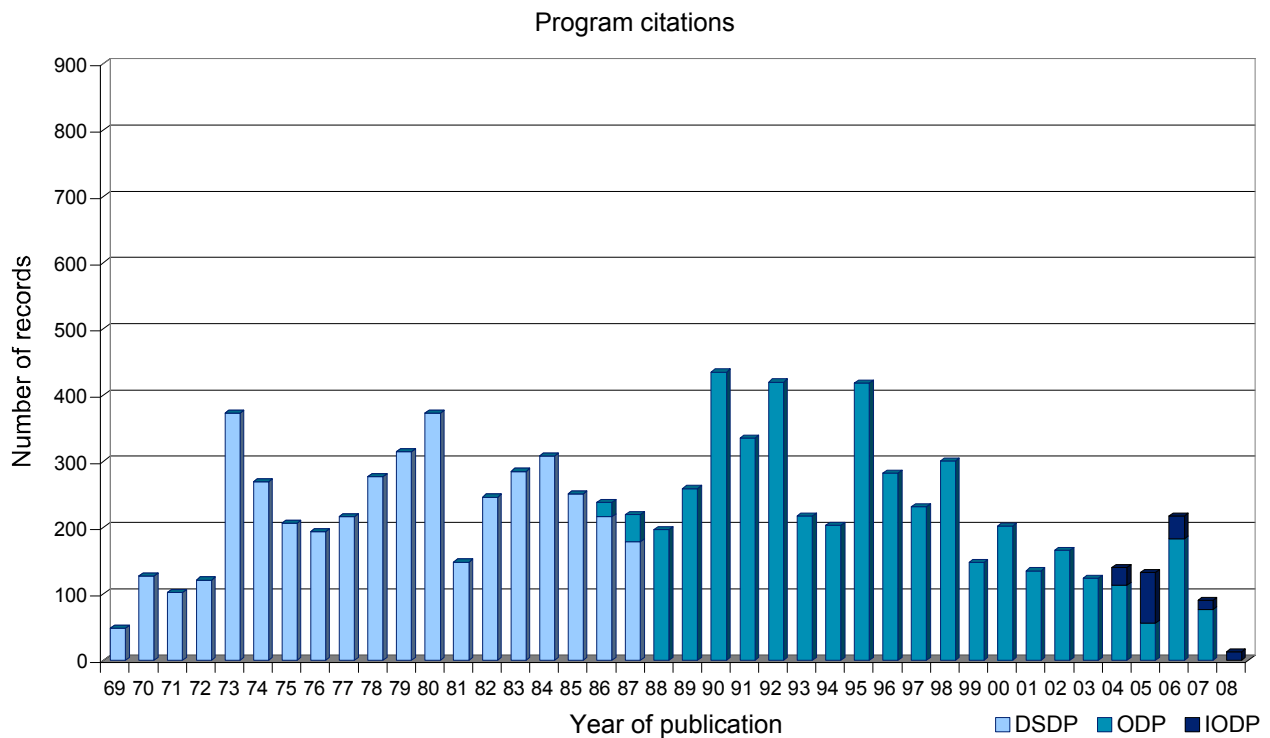
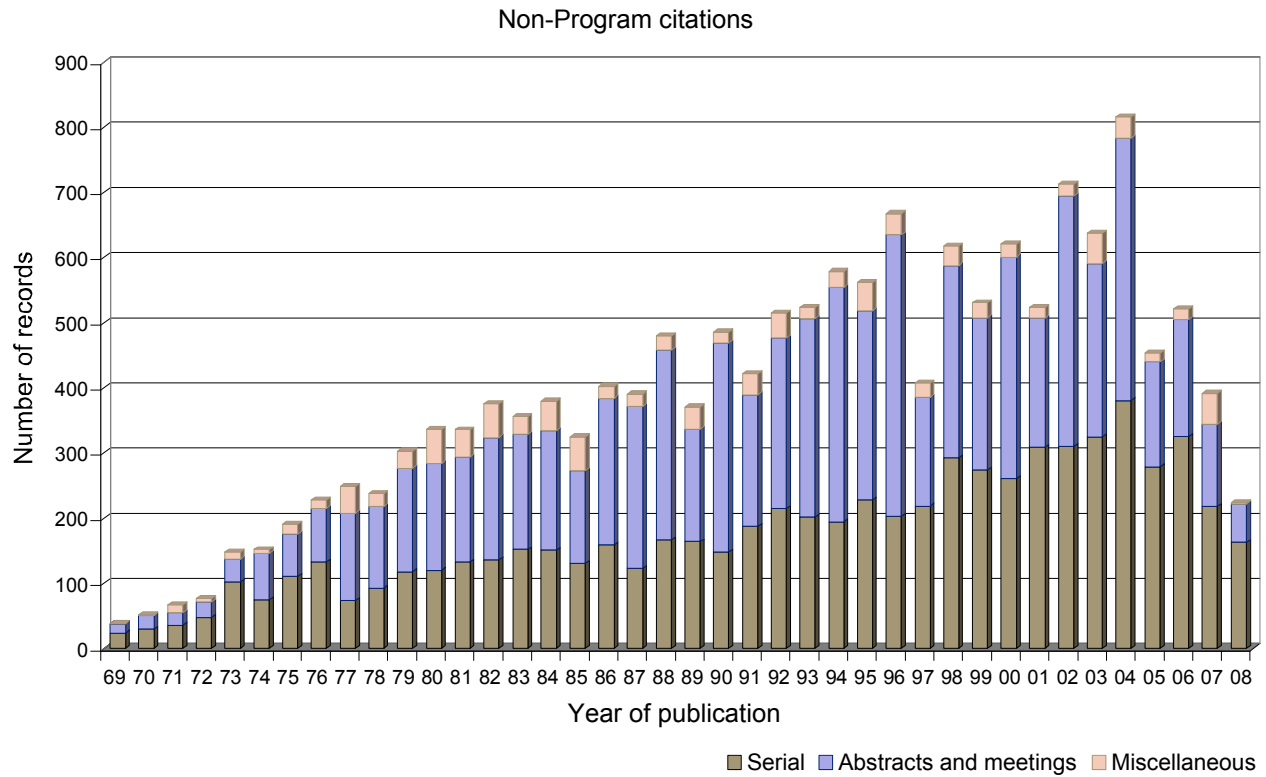
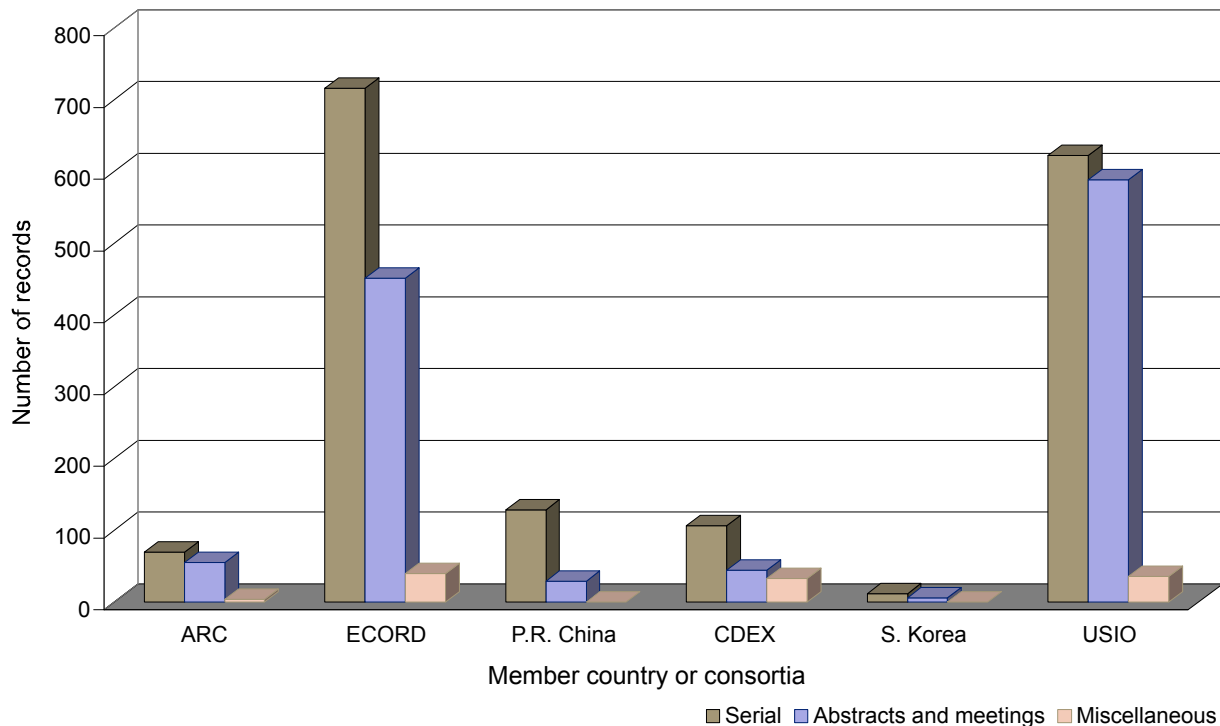


Figure 3. Non-Program publication records first-authored by authors affiliated with IODP member countries and consortia (2003–2008).



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

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

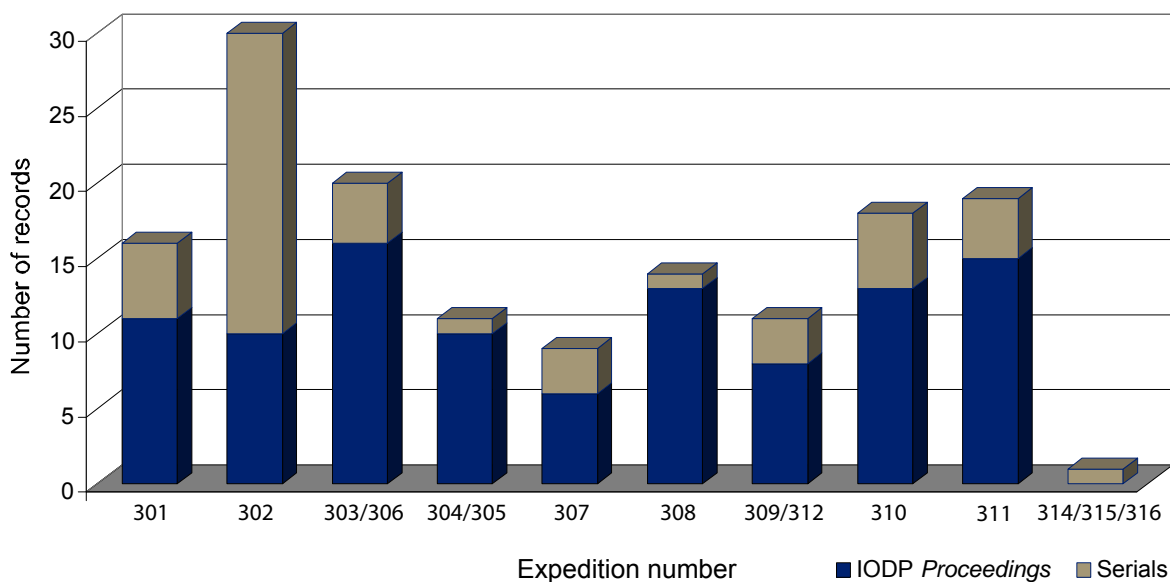


Figure 5. Annual breakdown of Program and non-Program Ocean Drilling Citation Database records.

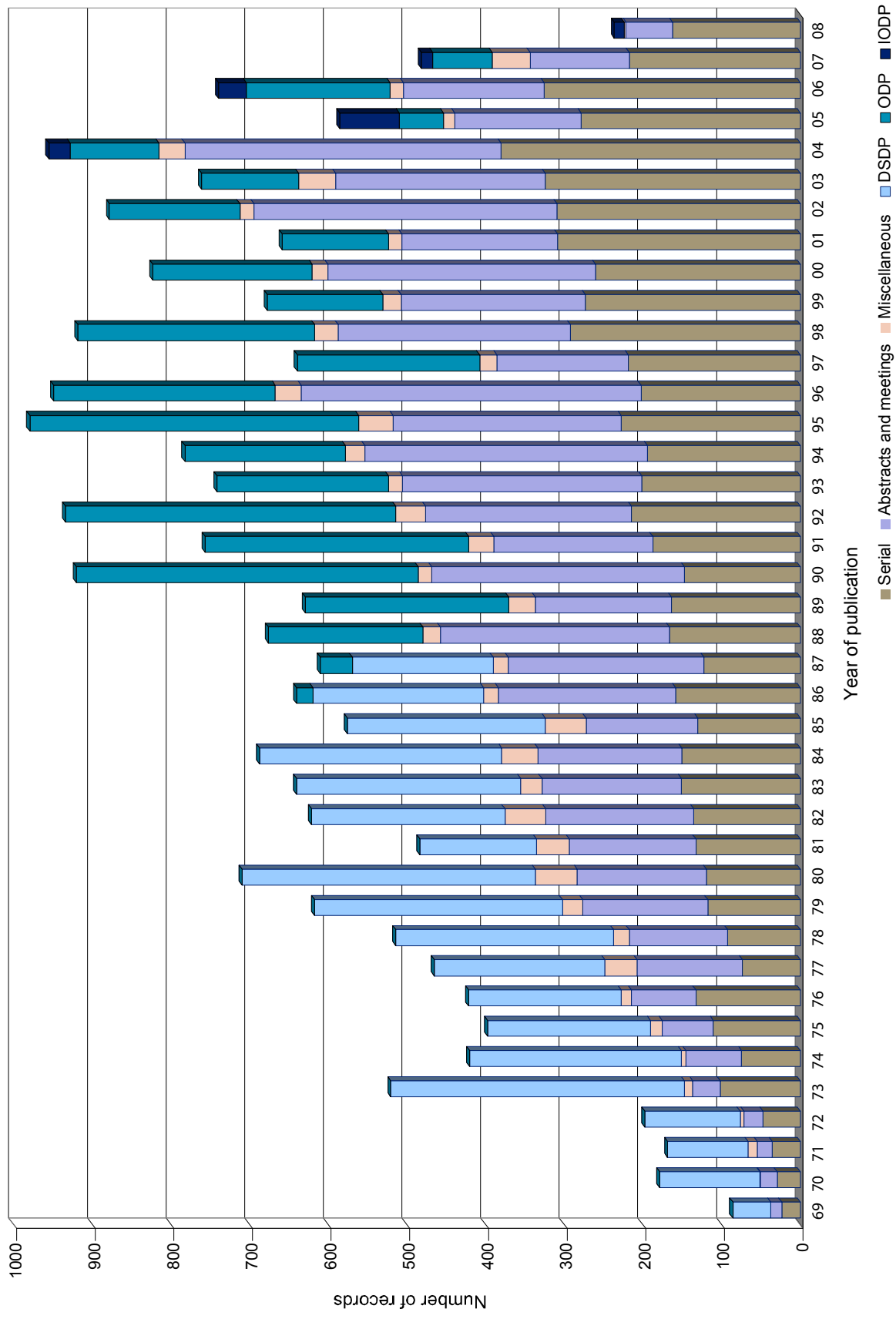


Figure 6. *Proceedings, Scientific Results* and non-Program serial citation records for ODP Legs 101–210.

