



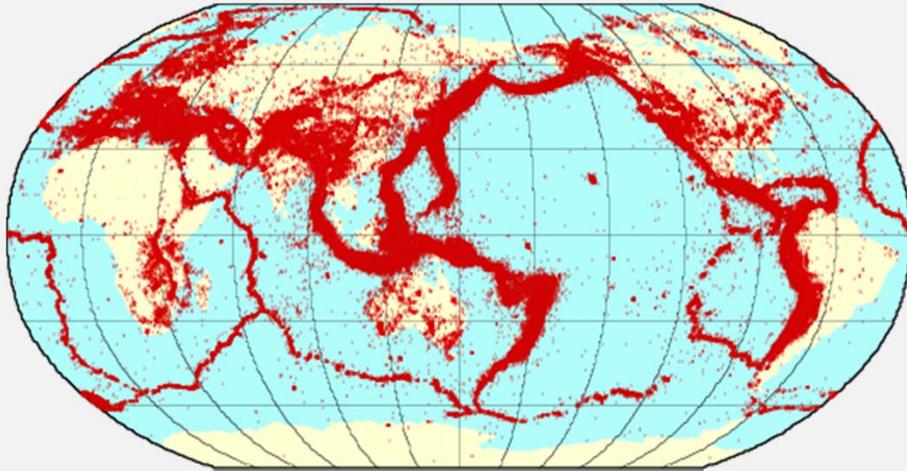
Prof. Ambraseys' contribution to the ISC Event Bibliography

Dmitry A. Storchak & Domenico Di Giacomo

www.isc.ac.uk/event_bibliography

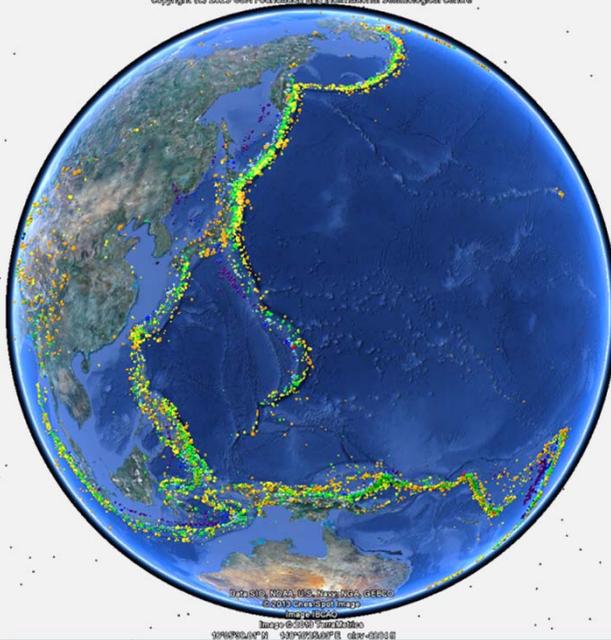
The ISC main products

ISC Bulletin



- ❑ global definitive seismic bulletin
- ❑ used in many areas of geophysical research
- ❑ 1960-2014
- ❑ earthquakes and anthropogenic events
- ❑ ~5 million events
- ❑ based on reports from 130 networks worldwide

ISC-GEM Catalogue



- ❑ global catalogue of large earthquakes
- ❑ prepared for seismic hazard and risk assessment
- ❑ 1900-2009
- ❑ large earthquakes only
- ❑ ~19,000 homogeneous hypocentre locations and M_W estimates
- ❑ with the estimates of uncertainty
- ❑ prepared using uniform technique and original seismic wave arrival times and amplitude measurements

Motivation for the ISC Event Bibliography



- ❑ Geophysicists often need to identify scientific articles related to specific seismic events (earthquakes and anthropogenic events) that occurred at particular times or in specific regions.
- ❑ Most advanced bibliographical searches such as Google Scholar would require them to type a text string containing a commonly used name for the earthquake or the region and date it occurred.
- ❑ The search may need to be repeated several times to account for all possible transliterations of a place name in English, several different ways of specifying a date and a variety of names of the area where the earthquake has occurred.
- ❑ The results then have to be merged and unavoidable duplicates removed. This procedure is daunting and often leads to unstable results.

What does the ISC Event Bibliography do?

the DOI, or to the journal home page.

Close polygon
Edit polygon
Delete last point
Clear map

Lat: 30.001
Lon: 40.251

40.989, 19.127
37.815, 19.797
35.667, 21.555
34.444, 24.851
34.914, 30.081
36.237, 32.278
40.779, 39.816
42.156, 33.640
43.126, 30.432
43.062, 28.762
43.062, 24.412
42.481, 20.764
40.939, 19.127

Seismic events

Plot polygon

Event origin time:
Start date: 1904 01 01 Time (HH:MM:SS) 00:00:00
End date: 2011 01 01 Time (HH:MM:SS) 00:00:00

Publication options:
Publication date: Min Year Max Year
Sort by: Event origin time Year of publication Journal
Journal options: Journal: Any
Author Surname: Ambraseys (Names divided by comma, e.g. Smith, Li. Matches Smith* and Li*)

International Seismological Centre
Online Event Bibliography

Please consider the [ISC mirror server](#) hosted at IRIS DMC as it may be faster.

Any use of data from the ISC Bibliography **should be cited**. The correct format for citations may be found on our [citation page](#).

Search summary:
Events within polygon
Events between 1904-01-01 and 2011-01-01
Written by Ambraseys

ISC Event Agency	Origin time	Articles_total	Event code
1650092	ISC 1999-11-12 16:57:	116	DUZCE1999

Ambraseys, N.N., 2002. The Seismic Activity of the Marmara Sea Region over the Last 2000 Years, *Bull. seism. Soc. Am.*, 92, 1, 1-18, DOI: [10.17850120000843](#)

ISC Event Agency	Origin time	Articles_total	Event code
1655758	ISC 1999-09-07 11:56:	53	ATHENS1999

Ambraseys, N.N. and Psycharis, I.N., 2011. Earthquake activity in the Marmara Sea region, *Geophys. J. Int.*, 185, 5, 685-710, DOI: [10.1080/13632469.2010.541549](#)

ISC Event Agency	Origin time	Lat	Lon	Depth	Magnitude	Articles_total	Event code
1655218	ISC 1999-08-17 00:01:38	40.76	29.95	17.0	M _w (HRVD) = 7.6	313	IZMIT1999

Ambraseys, N.N., 2002. The Seismic Activity of the Marmara Sea Region over the Last 2000 Years, *Bull. seism. Soc. Am.*, 92, 1, 1-18, DOI: [10.17850120000843](#)

Ambraseys, N.N. and Jackson, J.A., 2000. Seismicity of the Sea of Marmara (Turkey) since 1500, *Geophys. J. Int.*, 141, 3, F1-F6, DOI: [10.1046/j.1365-246x.2000.00137.x](#)

Ambraseys, N.N., 2006. Comparison of frequency of occurrence of earthquakes with slip rates from long-term seismicity data: the cases of Gulf of Corinth, Sea of Marmara and Dead Sea Fault Zone, *Geophys. J. Int.*, 165, 2, 516-526, DOI: [10.1111/j.1365-246X.2006.02858.x](#)

Ambraseys, N.N., 2001. The earthquake of 10 July 1894 in the Gulf of Izmit (Turkey) and its relation to the earthquake of 17 August 1999, *J. Seismol.*, 5, 1, 117-128, DOI: [10.1023/A:1009871605267](#)

Ambraseys, N.N., 2001. Reassessment of earthquakes, 1900-1999, in the Eastern Mediterranean and the Middle East, *Geophys. J. Int.*, 145, 2, 471-485, DOI: [10.1046/j.0956-540x.2001.01396.x](#)

References to scientific articles related to these events

interactive search based on seismic event (location, time, magnitude) and/or publication parameters (author, journal, publication year).

references to scientific publications associated with seismic events worldwide;

Output example

Link to the
ISC Bulletin

International Seismological Centre Online Event Bibliography

Please consider the [ISC mirror server](#) hosted at IRIS DMC as it may be faster.

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Search summary:

Events within polygon

Events between 1904-01-01 and 2011-01-01

Written by Ambraseys

ISC Event Agency	Origin time	Lat	Lon	Depth	Magnitude	Articles_total	Event code
1650092	ISC 1999-11-12 16:57:19	40.81	31.19	10.4	Mw(HRVD) = 7.2	116	DUZCE1999

Ambraseys, N.N., 2002. The Seismic Activity of the Marmara Sea Region over the Last 2000 Years, *Bull. seism. Soc. Am.*, 92, 1, 1-18, DOI: [10.1785/0120000843](#)

ISC Event Agency	Origin time	Lat	Lon	Depth	Magnitude	Articles_total	Event code
1655758	ISC 1999-09-07 11:56:49	38.12	23.58	9.4	Mw(HRVD) = 6.0	53	ATHENS1999

Ambraseys, N.N. and Psycharis, I.N., 2011. Earthquake stability of columns and statues, *J. Earthq. Eng.*, 15, 5, 685-710, DOI: [10.1080/13632469.2010.541549](#)

ISC Event Agency	Origin time	Lat	Lon	Depth	Magnitude	Articles_total	Event code
1655218	ISC 1999-08-17 00:01:38	40.76	29.95	17.0	Mw(HRVD) = 7.6	313	IZMIT1999

Ambraseys, N.N., 2002. The Seismic Activity of the Marmara Sea Region over the Last 2000 Years, *Bull. seism. Soc. Am.*, 92, 1, 1-18, DOI: [10.1785/0120000843](#)

Ambraseys, N.N. and Jackson, J.A., 2000. Seismicity of the Sea of Marmara (Turkey) since 1500, *Geophys. J. Int.*, 141, 3, F1-F6, DOI: [10.1046/j.1365-246x.2000.00137.x](#)

Ambraseys, N.N., 2006. Comparison of frequency of occurrence of earthquakes with slip rates from long-term seismicity data: the cases of Gulf of Corinth, Sea of Marmara and Dead Sea Fault Zone, *Geophys. J. Int.*, 165, 2, 516-526, DOI: [10.1111/j.1365-246X.2006.02858.x](#)

Ambraseys, N.N., 2001. The earthquake of 10 July 1894 in the Gulf of Izmit (Turkey) and its relation to the earthquake of 17 August 1999, *J. Seismol.*, 5, 1, 117-128, DOI: [10.1023/A:1009871605267](#)

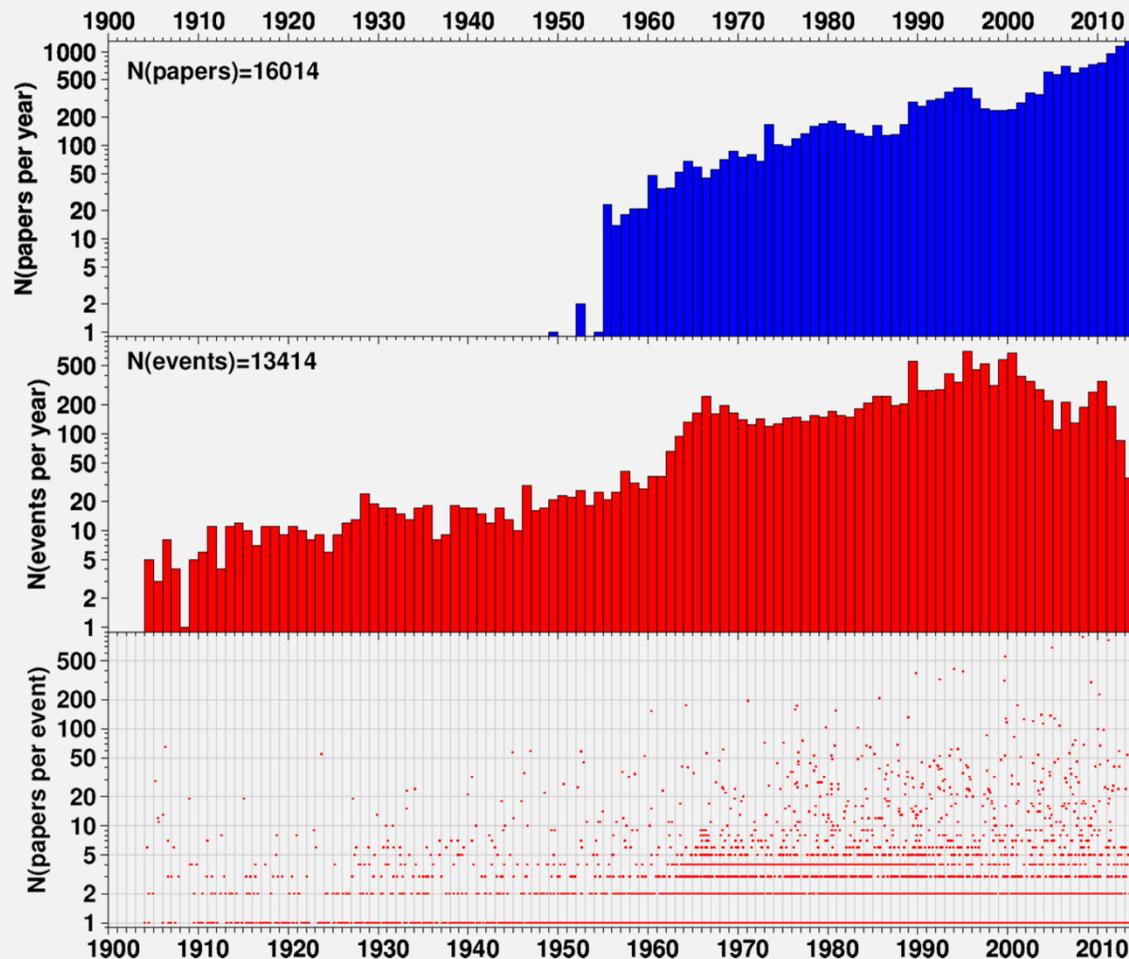
Ambraseys, N.N., 2001. Reassessment of earthquakes, 1900-1999, in the Eastern Mediterranean and the Middle East, *Geophys. J. Int.*, 145, 2, 471-485, DOI: [10.1046/j.0956-540x.2001.01396.x](#)

Earthquake
parameters

Link to the
paper abstract
webpage via
the DOI

Content of the ISC Event Bibliography

As of February 2016, the ISC Event Bibliography includes over **16,000 articles** associated to **~13,500 seismic events** (natural or man-made);



- This service covers the last 50-60 years of publications from nearly 500 titles;
- Some significant events in the first part of last century are also included;
- Publications dealing with catalogues and/or large dataset in a specific region are not included;
- Ongoing work to add missing references (Authors are encouraged to check for missing publications and contact us).

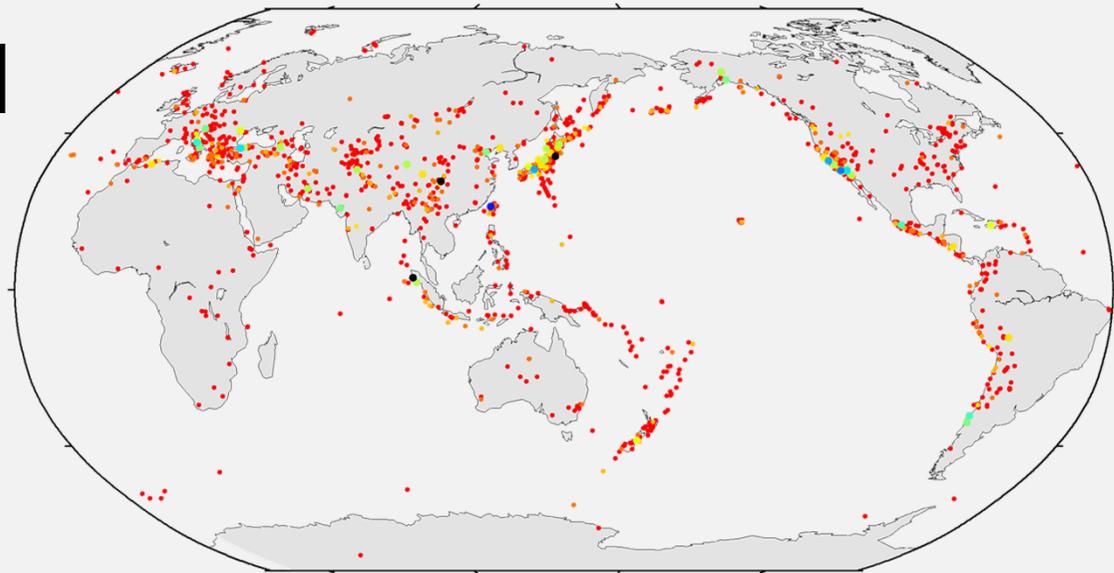
Articles in many Fields of Geoscience

The ISC Event Bibliography is not limited to publications in Seismology. It includes articles on:

- Earthquake engineering
- Tectonics
- Structural geology
- Geodesy
- Remote sensing
- Nuclear test monitoring
- Tsunami and coastal studies
- Landslides
- Environmental studies
- Hydrology
- Geochemistry
- Atmospheric sciences
- Geomagnetism
- others*

Most Referenced Events

- ❑ Most of the events are linked to one or two articles, a few to hundreds
- ❑ Events with many references are in Japan, Euro-Mediterranean and U.S. West coast areas
- ❑ Some events attracted attention of many researches in various geoscience disciplines



"The most studied events"

Event origin time	N	Code	Event origin time	N	Code
2008-05-12 06:27:59	886	WENCHUAN2008	2001-11-14 09:26:10	125	KUNLUN2001
2011-03-11 05:46:23	819	TOHOKU2011	2002-11-03 22:12:41	120	DENALI2002
2004-12-26 00:58:52	682	SUMATRA2004	1999-11-12 16:57:19	116	DUZCE1999
1999-09-20 17:47:16	554	CHI-CHI1999	2003-12-26 01:56:53	113	BAM2003
1994-01-17 12:30:54	411	NORTHRIDGE1994	2005-10-08 03:50:35	108	KASHMIR2005
1995-01-16 20:46:51	389	SHYOGO1995	1979-10-15 23:16:57	103	IMPERIAL1979
1989-10-18 00:04:14	374	LOMAPRIETA1989	1983-05-26 02:59:58	102	SEAOFJAPAN1983
1992-06-28 11:57:35	322	LANDERS1992	2010-01-12 21:53:10	99	HAITI2010
1999-08-17 00:01:38	313	IZMIT1999	2010-09-03 16:35:46	97	DARFIELD2010
2009-04-06 01:32:42	299	LAQUILA2009	1997-09-26 09:40:25	86	UMBRIA-MARCHE1997B
2010-02-27 06:34:13	226	MAULE2010	2000-10-06 04:30:17	82	TOTTORI2000
1985-09-19 13:17:50	207	MEXICOCITY1985	2007-07-16 01:13:21	76	CHUETSU-OKI2007
1971-02-09 14:00:40	194	SANFERNANDO1971	1977-03-04 19:21:54	75	ROMANIAN1977
1964-03-28 03:36:13	175	ALASKA1964	1972-12-23 06:29:42	72	MANAGUA1972
2001-01-26 03:16:40	174	BHUJ2001	1975-02-04 11:36:05	72	HAICHENG1975
1976-07-27 19:42:53	172	TANGSHAN1976	2007-03-25 00:41:57	68	NOTO-HANTO2007
1976-05-06 20:00:12	158	FRIULI1976	2008-06-13 23:43:46	68	IWATE-MIYAGI2008
1980-11-23 18:34:52	154	CAMPANIA1980	1987-10-01 14:42:18	68	WHITTIER1987
1960-05-22 19:11:14	152	CHILE1960	1984-04-24 21:15:19	67	MORGAN1984
2003-09-25 19:50:07	139	TOKACHI-OKI2003	2010-04-13 23:49:37	67	YUSHU2010
2004-10-23 08:55:58	137	MID-NIIGATA2004	1980-10-10 12:25:22	67	ELASNAM1980
2004-09-28 17:15:24	135	PARKFIELD2004	1906-04-18 13:12:00	65	SANFRANCISCO1906
1988-12-07 07:41:24	131	ARMENIA1988	1984-09-13 23:48:51	64	NAGANO1984
1999-10-16 09:46:45	127	HECTOR-MINE1999	1994-06-09 00:33:16	62	BOLIVIA1994
2005-03-28 16:09:35	127	NIAS2005	1968-05-16 00:48:57	61	TOKACHI-OKI1968

First 20 Journals and Authors

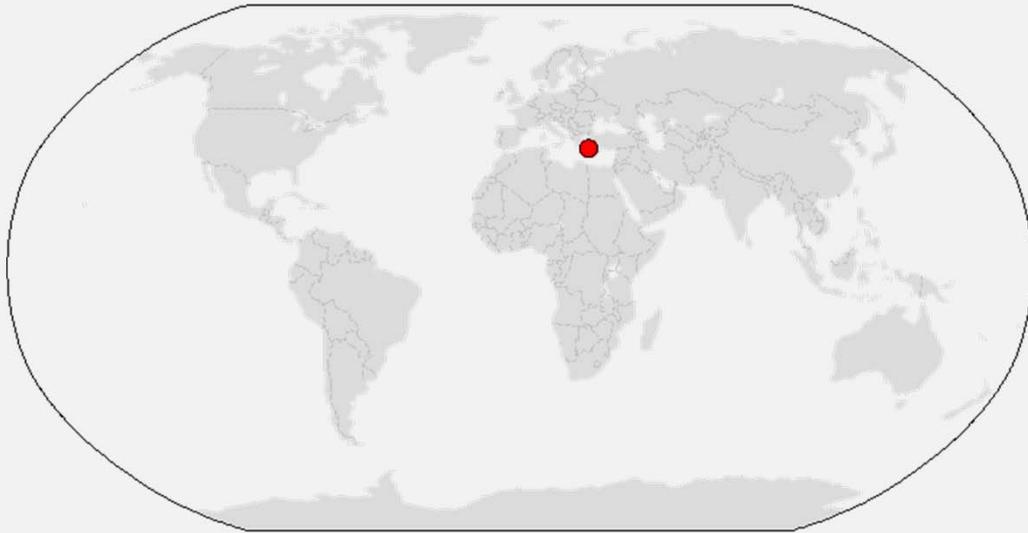
Journal	N(papers)
Bull. seism. Soc. Am.	1991
J. geophys. Res.	1062
Geophys. Res. Lett.	973
Tectonophysics	616
Geophys. J. Int.	596
Pure appl. Geophys.	423
Earth Planets Space	415
Earthq. Spectra	409
Seismol. Res. Lett.	383
Acta seism. sin.	289
Bull. Earthq. Res. Inst. Tokyo Univ.	252
EOS. Trans. Am. geophys. Un.	233
Annls Geophys.	227
Natural Hazards	213
Phys. Earth planet. Interiors	211
Zisin	207
Nature	207
Chinese J. Geophys.	205
Nat. Hazards Earth Syst. Sci.	192
J. Seismol.	179

- ❑ With rare exceptions, we include only publications with English title and abstract.
- ❑ We make no judgement of the quality of the articles.

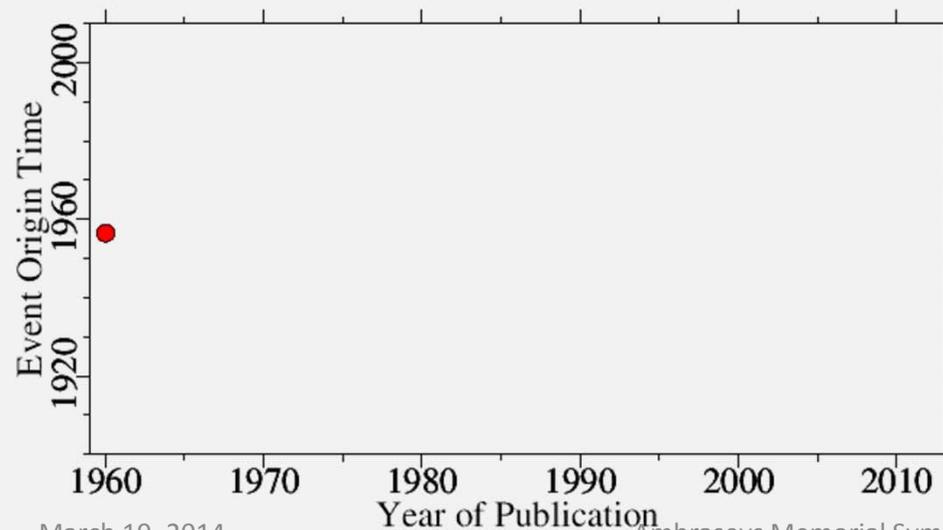
Author	N(papers)
Kanamori,H.	201
Satake,K.	97
Ambraseys,N.N.	89
Okal,E.A.	84
Helmberger,D.	84
Bürgmann,R.	78
Lay,T.	76
Hasegawa,A.	74
Singh,S.K.	72
Sato,T.	71
Aki,K.	70
Jackson,J.A.	69
Hayakawa,M.	62
Liu,J.	61
Mori,J.	59
Dreger,D.	59
Irikura,K.	58
Li,Y.	55
Hauksson,E.	54
Hartzell,S.	53

ISC Event Bibliography: Ambraseys

Publication year = 1960

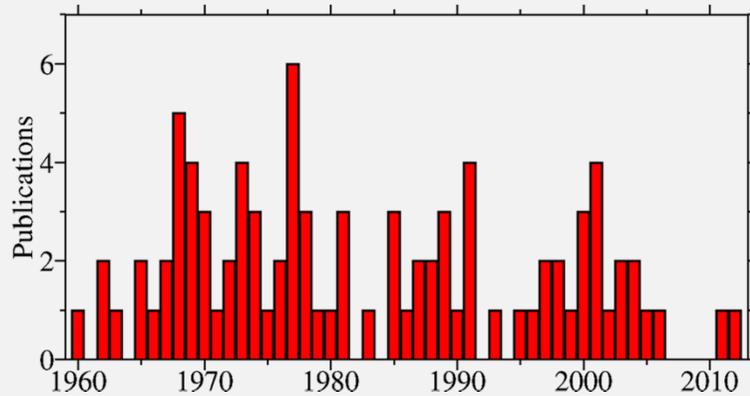


The map of ~500 individual earthquakes described by Prof. Ambraseys in 89 scientific articles



The timeline

ISC Event Bibliography: **Ambraseys**



89 publications of Ambraseys related to ~500 earthquakes in the most active regions of the world are included in the ISC Event Bibliography

Journal/Series	N(papers)
Geophys. J. Int.	10
Bull. seism. Soc. Am.	9
Annls Geophys.	9
Nature	7
Earthq. Engng struct. Dyn.	6
UNESCO Publ.	5
J. Seismol.	4
Curr. Sci.	4
Seismol. Res. Lett.	3
Europ. Earthq. Engng	3
Others	29

Summary

First 20 authors

Author	N(papers)
Kanamori,H.	201
Satake,K.	97
Ambraseys,N.N.	89
Okal,E.A.	84
Helmberger,D.	84
Bürgmann,R.	78
Lay,T.	76
Hasegawa,A.	74
Singh,S.K.	72
Sato,T.	71
Aki,K.	70
Jackson,J.A.	69
Hayakawa,M.	62
Liu,J.	61
Mori,J.	59
Dreger,D.	59
Irikura,K.	58
Li,Y.	55
Hauksson,E.	54
Hartzell,S.	53

- ❑ The **ISC Event Bibliography** allows an interactive search for seismic event oriented articles based on event and/or publication parameters.
- ❑ **Ambraseys** is the 3rd top scoring author in the ISC Event Bibliography.
- ❑ The ISC Event Bibliography is **multidisciplinary** and is an attractive tool for researchers and students from different fields.
- ❑ This new ISC service is expected to facilitate the work of authors, reviewers and journal editors during the entire process of scientific article publication.
- ❑ Articles describing catalogues or large datasets are not included.
- ❑ For further details see Di Giacomo *et al.* (SRL 2014).
- ❑ We continue improving the Event Bibliography; individual authors are encouraged to report missing papers using:

www.isc.ac.uk/event_bibliography