Archive of Historical Earthquake Studies

http://emidius.mi.ingv.it/HISEIS/

Archive of Historical Earthquake Studies

Preserve, organize and query the published and unpublished material supplying historical earthquake data

Registered user login

Request registration

The effects of the May 1481 earthquake in Rhodes are described by Guillaume de Caoursin, Knight of St. John, who witnessed it. The earthquake street scene is seen from inside the church of St. John of Collachio (left-hand corner and foreground).

IASPEI Working Group "Historical Seismology"

co-chair
Paola Albini
Istituto Nazionale di Geofisica e Vulcanologia
Sezione di Milano, Italy

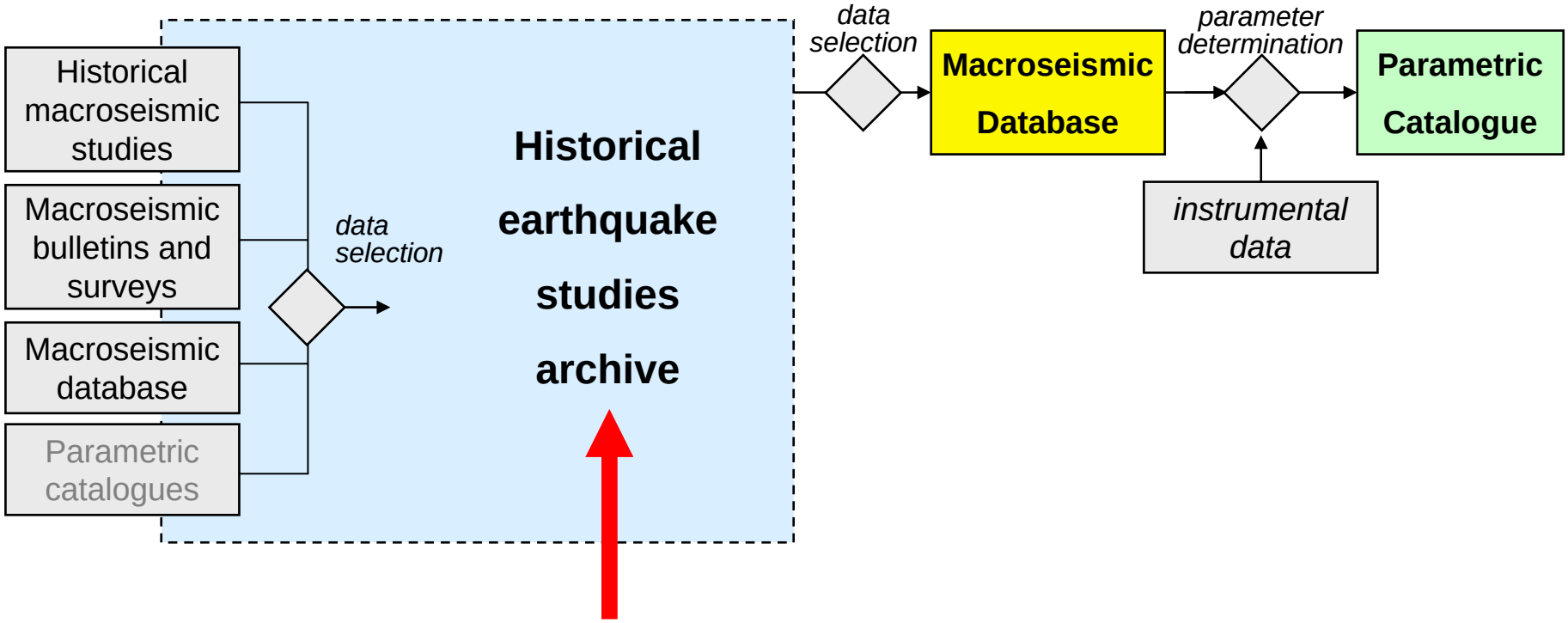
co-chair
Katsuhiko Ishibashi
Dept. of Earth and Planetary Sciences,
Faculty of Science, Kobe University,
Kobe, Japan

- **Presentation**

  Around the world, in the last 20 years the Historical Earthquake Studies increased in number and quality, as the result of the joint efforts of multidisciplinary teams. In general terms, there is a huge amount of scientific historical earthquake data that sometimes are not available or not easily traceable outside the local or national organizations that have funded and taken care of reporting the investigation.
  To master this problem an ad hoc WG on "Historical Seismology" was proposed to IASPEI in 2005, on the occasion of the General Assembly in Santiago, Chile.
  The activity of the WG aims at establishing an Open-Access and Open Source Archive of Worldwide Historical Earthquake Studies.

- **Query the archive**
  - by earthquake
  - by study
- **Search tool**
- **Submission tool**
- **Frequently asked questions**

1. What are the historical earthquake studies
and
2. Why should they be archived



Thousands of <u>20th century</u> studies, published and unpublished, to:

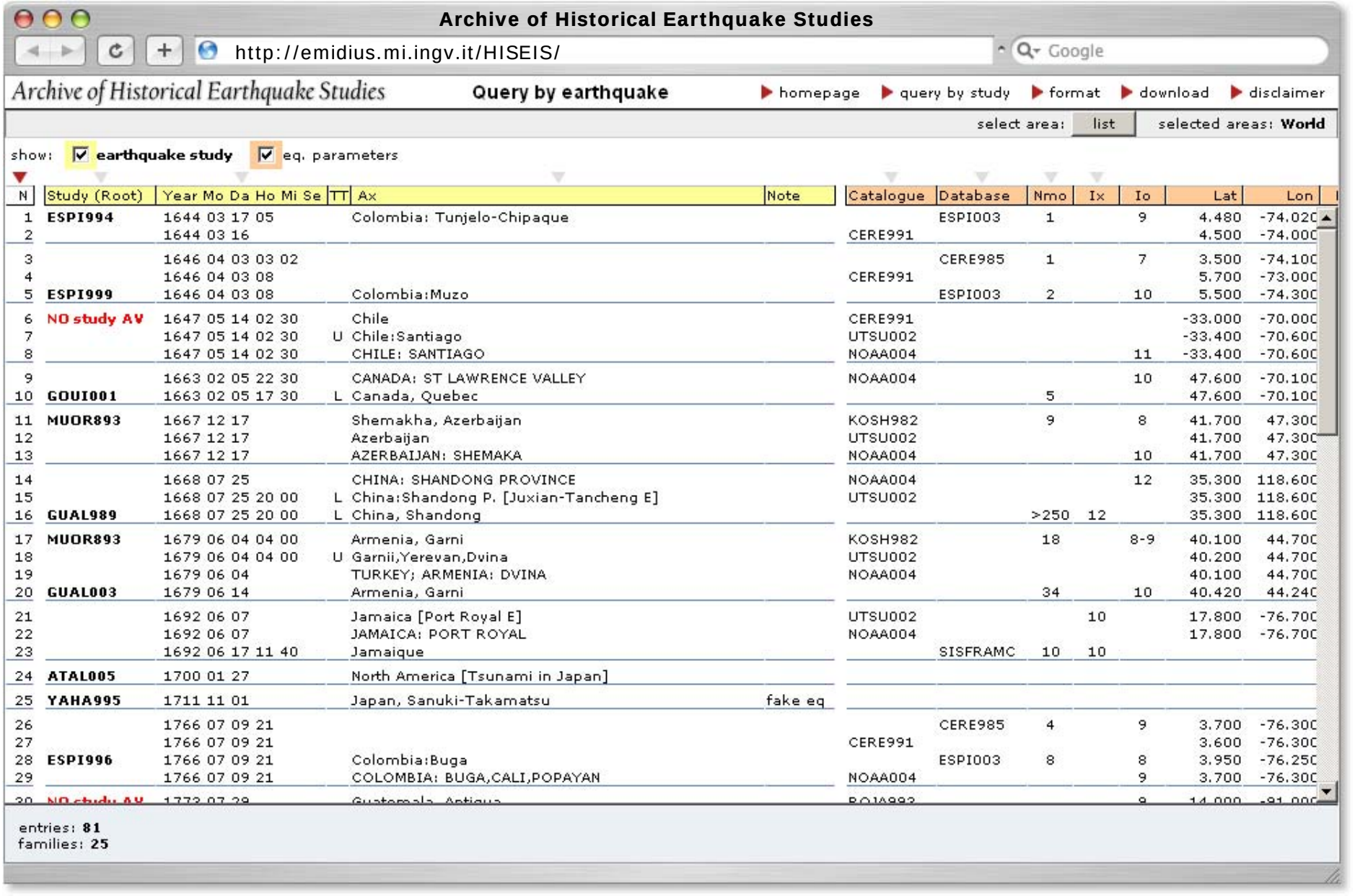
- identify

- retrieve

- store

- organize in an Archive

3. How they could be archived: the IASPEI WG Historical Seismology and its tools



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Archive of Historical Earthquake Studies — Query by earthquake — homepage | query by study | format | download | disclaimer

select area: list — selected areas: World

show: earthquake study, eq. parameters

N	Study (Root)	Year Mo Da Ho Mi Se	TT	Ax	Note	Catalogue	Database	Nmo	Ix	Io	Lat	Lon
1	ESPI994	1644 03 17 05		Colombia: Tunjelo-Chipaque			ESPI003	1		9	4.480	-74.020
2		1644 03 16				CERE991					4.500	-74.000
3		1646 04 03 03 02					CERE985	1		7	3.500	-74.100
4		1646 04 03 08				CERE991					5.700	-73.000
5	ESPI999	1646 04 03 08		Colombia:Muzo			ESPI003	2		10	5.500	-74.300
6	NO study AV	1647 05 14 02 30		Chile		CERE991					-33.000	-70.000
7		1647 05 14 02 30	U	Chile:Santiago		UTSU002					-33.400	-70.600
8		1647 05 14 02 30		CHILE: SANTIAGO		NOAA004				11	-33.400	-70.600
9		1663 02 05 22 30		CANADA: ST LAWRENCE VALLEY		NOAA004				10	47.600	-70.100
10	GOUI001	1663 02 05 17 30	L	Canada, Quebec				5			47.600	-70.100
11	MUOR893	1667 12 17		Shemakha, Azerbaijan		KOSH982		9		8	41.700	47.300
12		1667 12 17		Azerbaijan		UTSU002					41.700	47.300
13		1667 12 17		AZERBAIJAN: SHEMAKA		NOAA004				10	41.700	47.300
14		1668 07 25		CHINA: SHANDONG PROVINCE		NOAA004				12	35.300	118.600
15		1668 07 25 20 00	L	China:Shandong P. [Juxian-Tancheng E]		UTSU002					35.300	118.600
16	GUAL989	1668 07 25 20 00	L	China, Shandong				>250	12		35.300	118.600
17	MUOR893	1679 06 04 04 00		Armenia, Garni		KOSH982		18		8-9	40.100	44.700
18		1679 06 04 04 00	U	Garnii,Yerevan,Dvina		UTSU002					40.200	44.700
19		1679 06 04		TURKEY; ARMENIA: DVINA		NOAA004					40.100	44.700
20	GUAL003	1679 06 14		Armenia, Garni				34		10	40.420	44.240
21		1692 06 07		Jamaica [Port Royal E]		UTSU002			10		17.800	-76.700
22		1692 06 07		JAMAICA: PORT ROYAL		NOAA004					17.800	-76.700
23		1692 06 17 11 40		Jamaique			SISFRAMC	10	10			
24	ATAL005	1700 01 27		North America [Tsunami in Japan]								
25	YAHA995	1711 11 01		Japan, Sanuki-Takamatsu	fake eq							
26		1766 07 09 21					CERE985	4		9	3.700	-76.300
27		1766 07 09 21				CERE991					3.600	-76.300
28	ESPI996	1766 07 09 21		Colombia:Buga			ESPI003	8		8	3.950	-76.250
29		1766 07 09 21		COLOMBIA: BUGA,CALI,POPAYAN		NOAA004				9	3.700	-76.300
30	NO study AV	1773 07 28		Guatemala, Antigua		BOJA993				9	14.000	-91.000

entries: 81
families: 25

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Query the archive

- by earthquake
- by study

Search tool

search area: the whole archive

keywords:

Search

Submission tool

Frequently asked questions

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Archive of Historical Earthquake Studies — Query by earthquake — homepage | query by study | format | download | disclaimer

select area: list — selected areas: 3

show: earthquake study, eq. parameters

N	Study (Root)	Year Mo Da Ho Mi Se	TT	Ax	Note	Catalogue	Database	Nmo	Ix	Io	Lat	Lon
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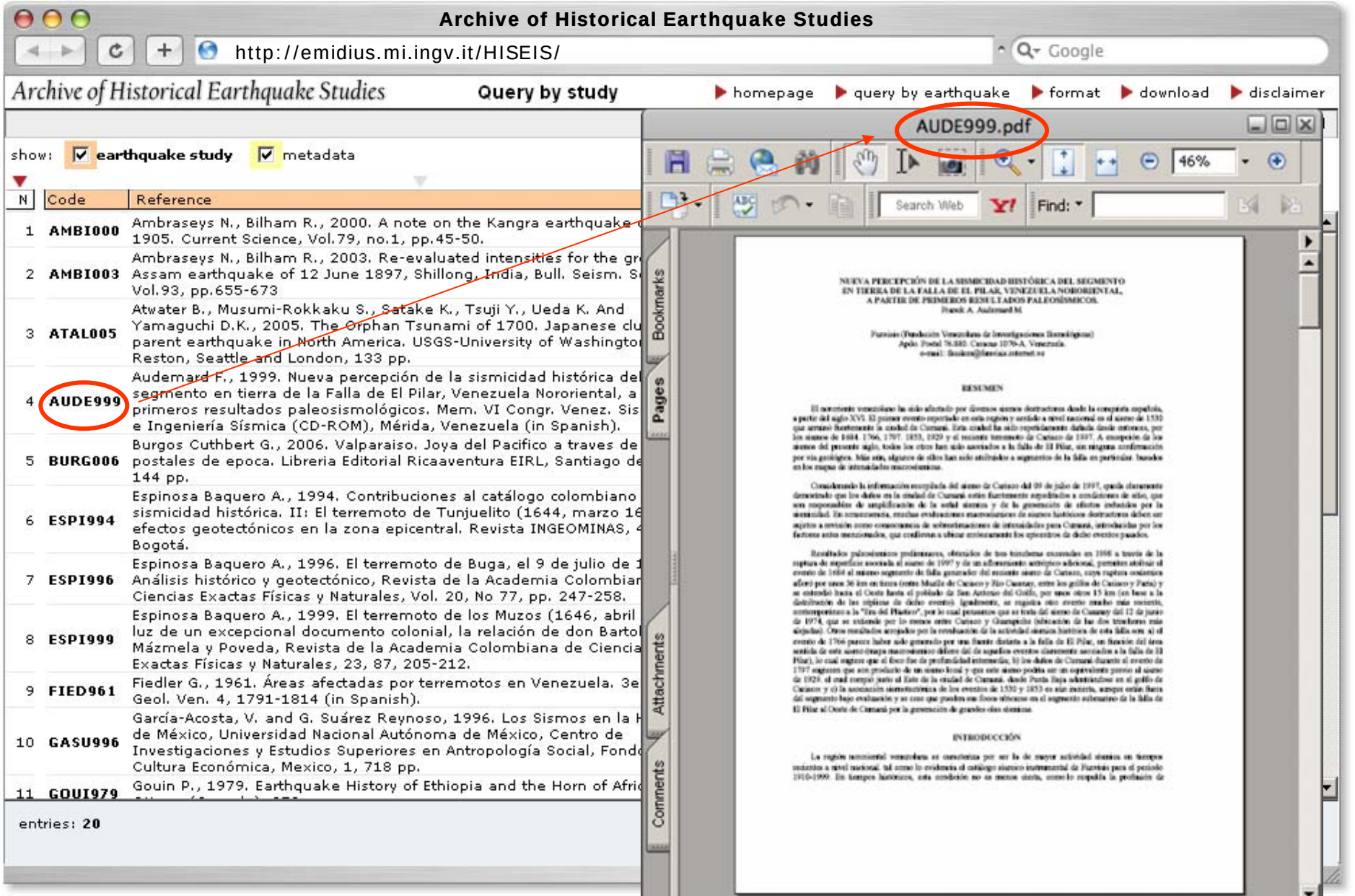
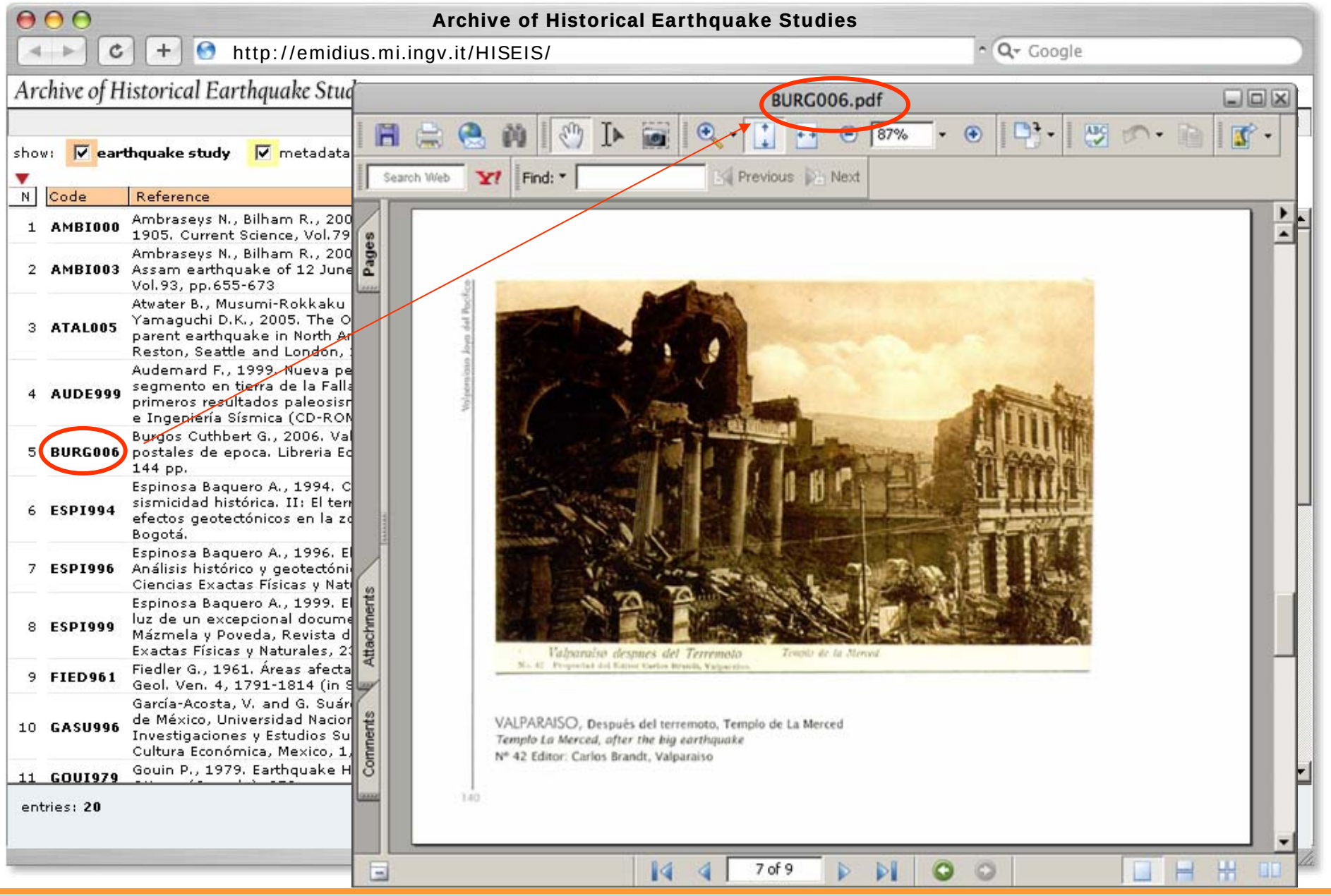
28	**ESPI996**	1766 07 09 21		Colombia:Buga			ESPI003	8		8	3.950	-76.250
29		1766 07 09 21		COLOMBIA: BUGA,CALI,POPAYAN		NOAA004				9	3.700	-76.300
33		1797 12 14 23		VENEZUELA: CUMANA		NOAA004					10.500	-64.200
34		1797 12 14 23 30				CERE991					10.600	-64.100
35		1797 12 14 23 30		Venezuela: Cumana			CERE985	1		9	10.600	-64.100
36	**FIED961**	1797 12 14 18 30	L	Venezuela: Cumana			ULAV007	1		9	10.600	-64.100
37	**AUDE999**	1797 12 14 18 30	L	Venezuela: Cumana			ULAV007	1	9			
60		1906 08 17 00 40		Chile:Valparaiso			CERE985	63	11		-33.000	-72.000
61		1906 08 17 00 40				CERE991					-33.000	-72.000
62		1906 08 17 00 40	U	Chile:Valparaiso		UTSU002					-33.000	-72.000
63		1906 08 17 00 40		CHILE: SOUTH CENTRAL		NOAA004				11	-33.000	-72.000
64	**BURG006**	1906 08 17 00 40		Chile, Valparaiso	photos							
75	**NO study AV**	1912 07 24 11 50		Peru: Piura			CERE985	34		10	-5.620	-80.413
76		1912 07 24 11 50				CERE991					-5.620	-80.410
77		1912 07 24 11 50	U	Peru:Huancabamba,Cajamarca,Guayaquil		UTSU002					-5.600	-80.400
78		1912 07 24 11 50		Peru: Huancabamba,Cajamarca; Ecuador: Guayaquil		NOAA004				8	-5.600	-80.400

entries: **26**
families: **7**

South America

An Open Access Archive of Historical Earthquake Studies

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show:
earthquake study
metadata
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Code
Reference
1 AMBI000 Ambraseys N., Bilham R., 200 1905. Current Science, Vol.79
2 AMBI003 Ambraseys N., Bilham R., 200 Assam earthquake of 12 June Vol.93, pp.655-673
3 ATAL005 Atwater B., Musumi-Rokkaku Yamaguchi D.K., 2005. The O parent earthquake in North A Reston, Seattle and London,
4 AUDE999 Audemard F., 1999. Nueva pe segmento en tierra de la Falla primeros resultados paleosism e Ingeniería Sísmica (CD-ROM
5 BURG006 Burgos Cuthbert G., 2006. Val postales de epoca. Libreria Ed 144 pp.
6 ESPI994 Espinosa Baquero A., 1994. C sismicidad histórica. II: El ter efectos geotectónicos en la zo Bogotá.
7 ESPI996 Espinosa Baquero A., 1996. El Análisis histórico y geotectóni Ciencias Exactas Físicas y Nat
8 ESPI999 Espinosa Baquero A., 1999. El luz de un excepcional docume Mázmela y Poveda, Revista d Exactas Físicas y Naturales, 2
9 FIED961 Fiedler G., 1961. Áreas afecta Geol. Ven. 4, 1791-1814 (in S
10 GASU996 García-Acosta, V. and G. Suár de México, Universidad Nacion Investigaciones y Estudios Su Cultura Económica, Mexico, 1,
11 GOUI979 Gouin P., 1979. Earthquake H
entries: 20
BURG006.pdf
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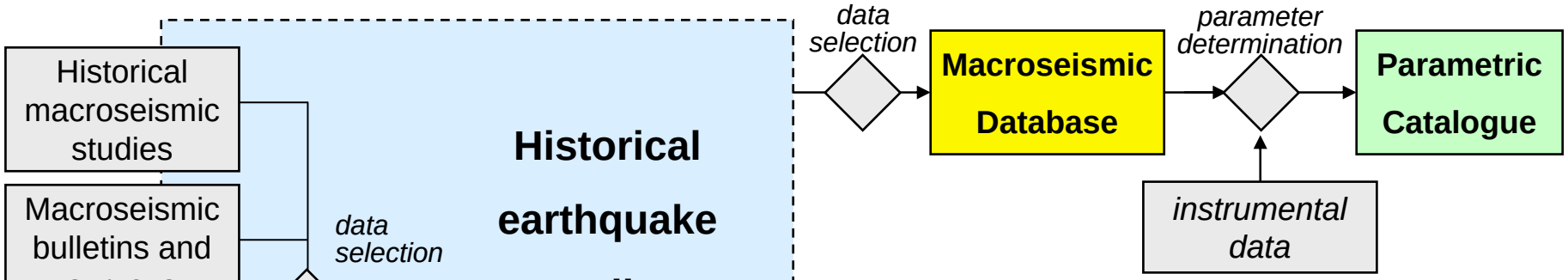
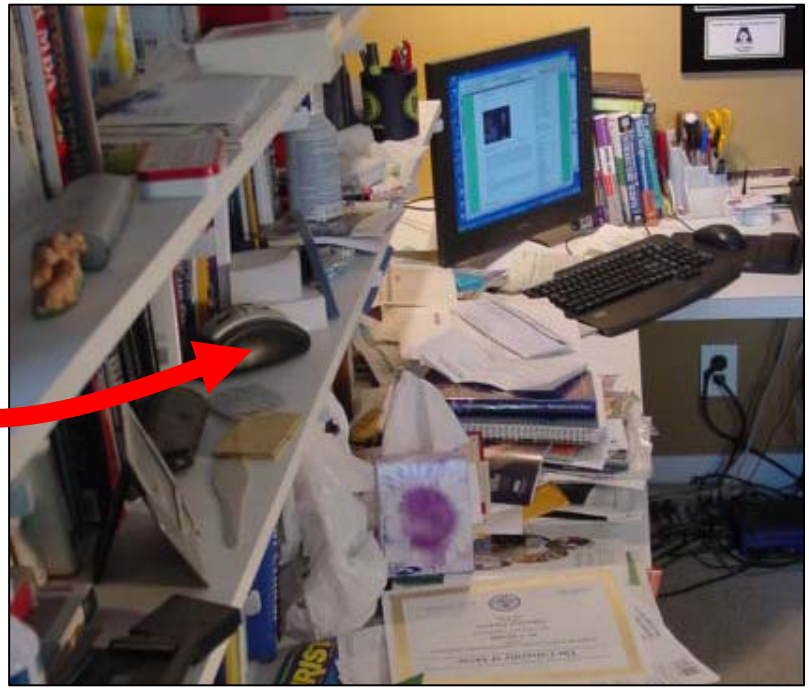
Valparaiso despues del Terremoto
Templo de la Merced
VALPARAISO, Después del terremoto, Templo de La Merced
Templo La Merced, after the big earthquake
Nº 42 Editor: Carlos Brandt, Valparaiso
7 of 9



But most of all we would like to inventory the studies **not published**



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- by study

Search tool

Submission tool

Author	
Title	
Pub. date	
Language	

Submit

*pressing "submit" you will be asked to supply more metadata

Frequently asked questions

The IASPEI WG “Historical Seismology” main goal is
to build an Open Access and Open Source Archive
of Historical Earthquake Studies,
in connection with all the ongoing activities.

Join and *contribute* this initiative!
Save the historical earthquake studies
supporting
the macroseismic databasese
and the parametric earthquake catalogues!

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Multiple operators
(many submitters, many end-users)

Digitally stored material
(preservation against "Slow fires")

Able to organize & structure & index
(complex material)

Content advanced search
(more than search through a list of titles)

Interoperable archive
(open standard database)

Open Source philosophy
(free, access to source code, collaborative development)

Why an Open Access and Open Source Archive