



ISC BULLETIN: NO LONGER TWO YEARS BEHIND

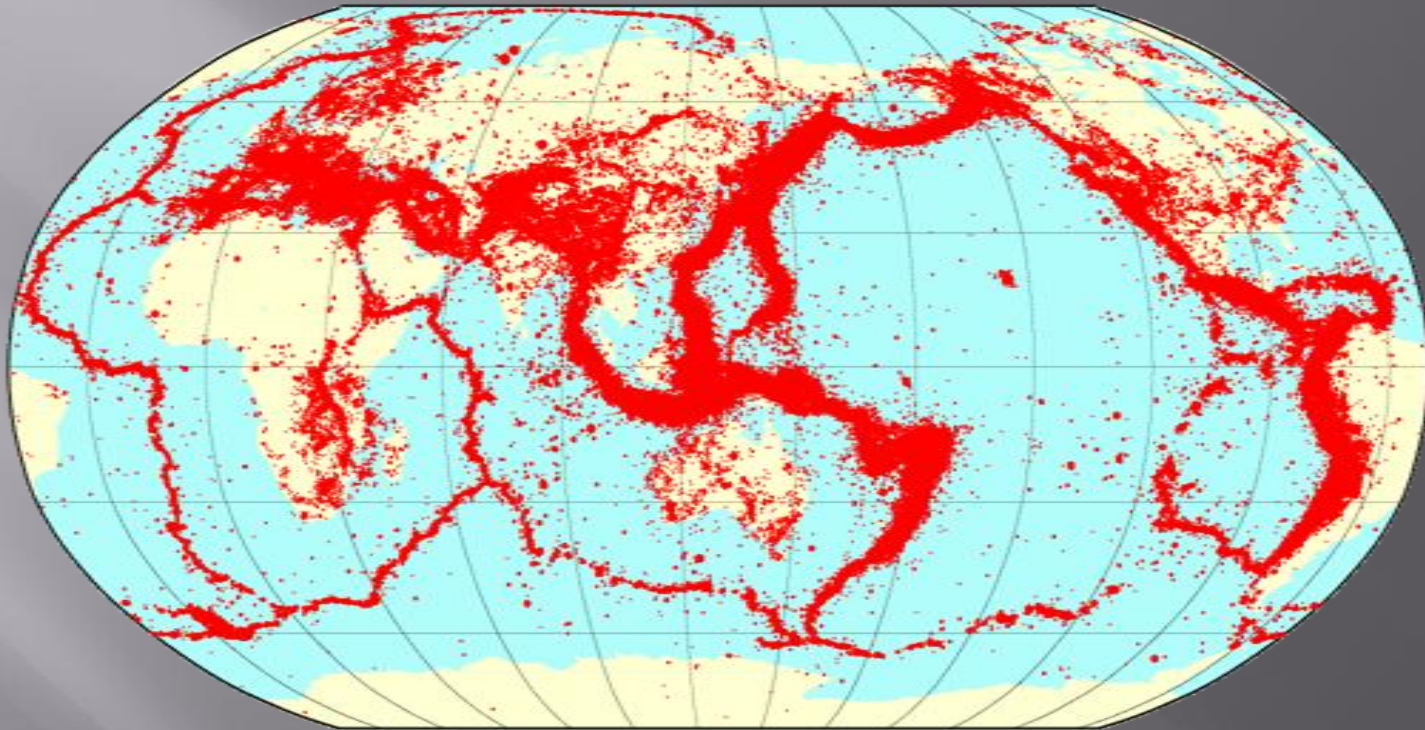
*Dmitry Storchak, Istvan Bondar,
Oriol Gaspa & James Harris*

International Seismological Centre (ISC)

United Kingdom

www.isc.ac.uk

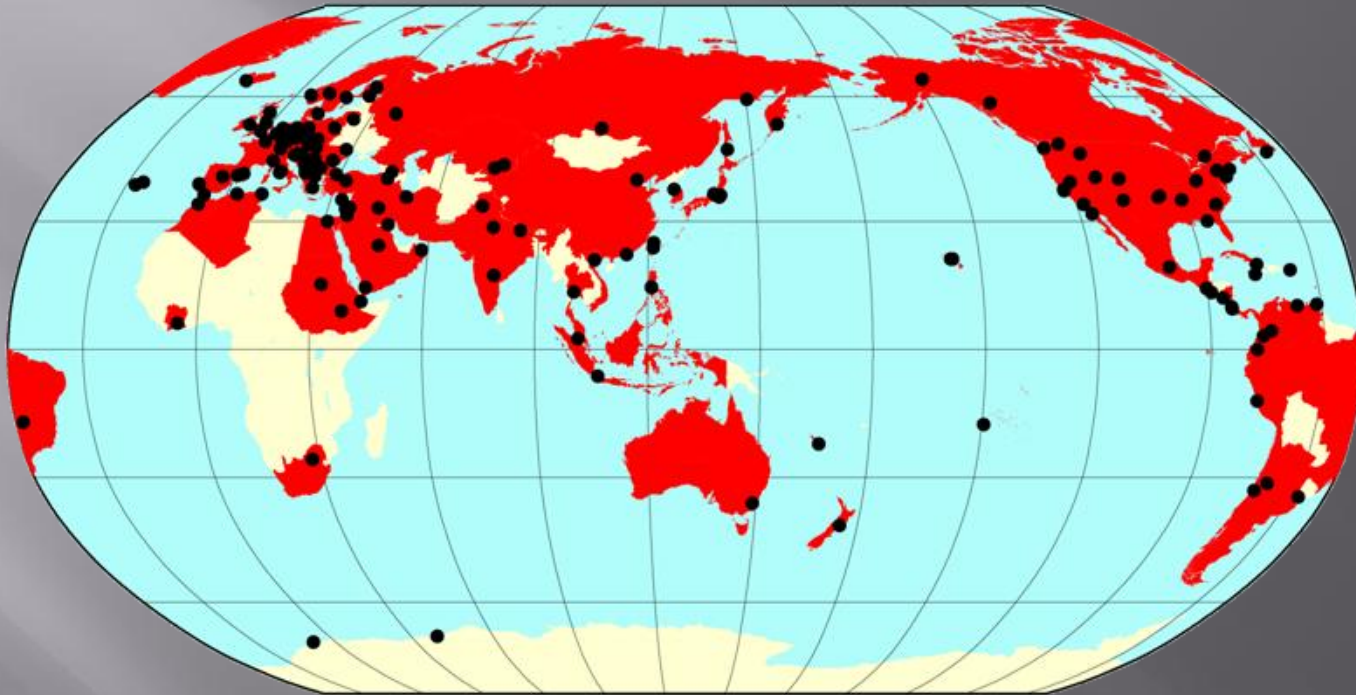
The ISC mission



Seismic events in the ISC Bulletin: 1964-2008

The ISC is an **international non-governmental** non-profit organisation, charged with production of the Bulletin - **the definitive** comprehensive summary of the world seismicity - recently **250'000** events per year.

The ISC data collection



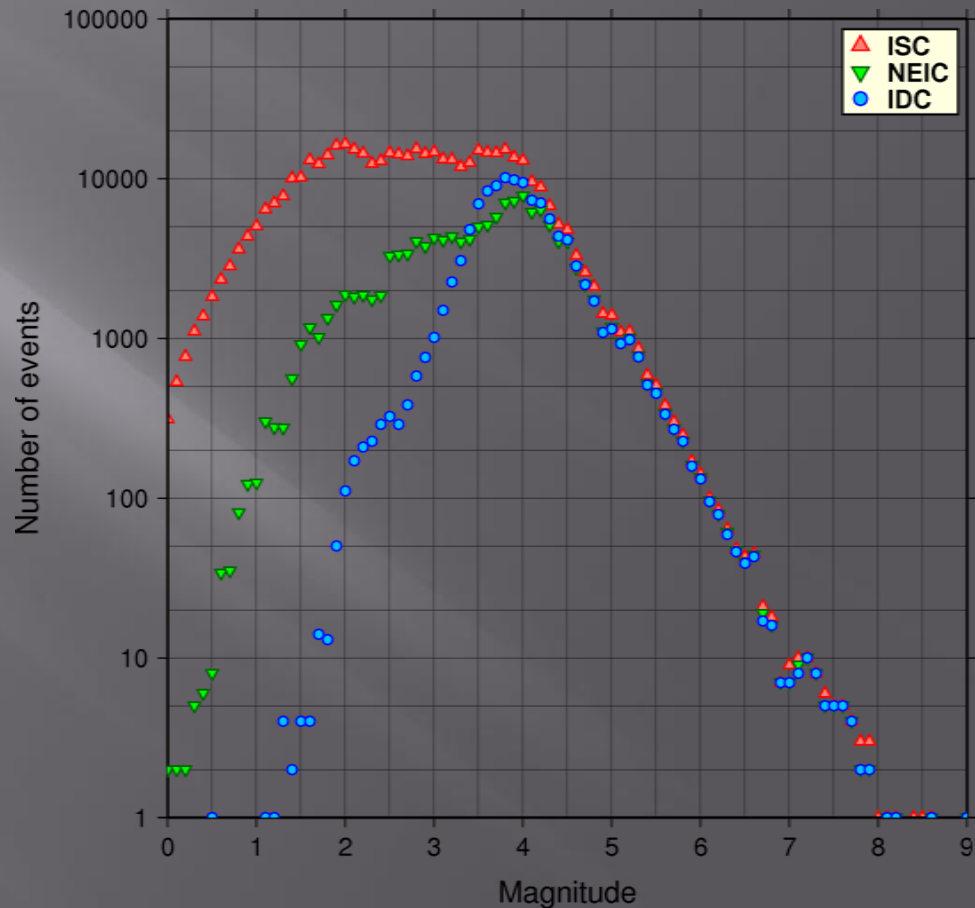
The ISC publishes its Seismological Bulletin based on parametric data on natural & induced seismic events and explosions collected in variety of different formats from **~120 observatories and data centres** around the world.

The issue

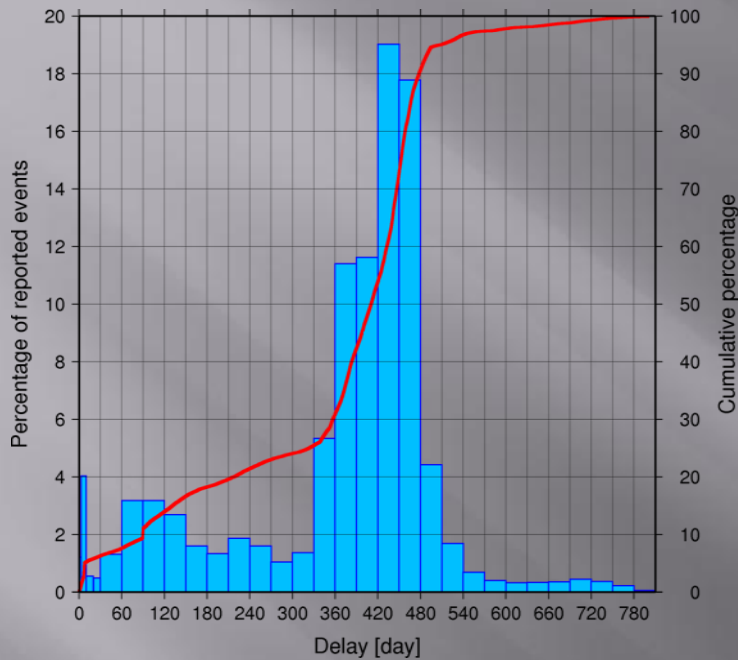
For many years the strategy of the ISC was to **wait for 2 years** in order to collect the final bulletin data to produce **the most complete & accurate** account of the world seismicity.

The problem is:

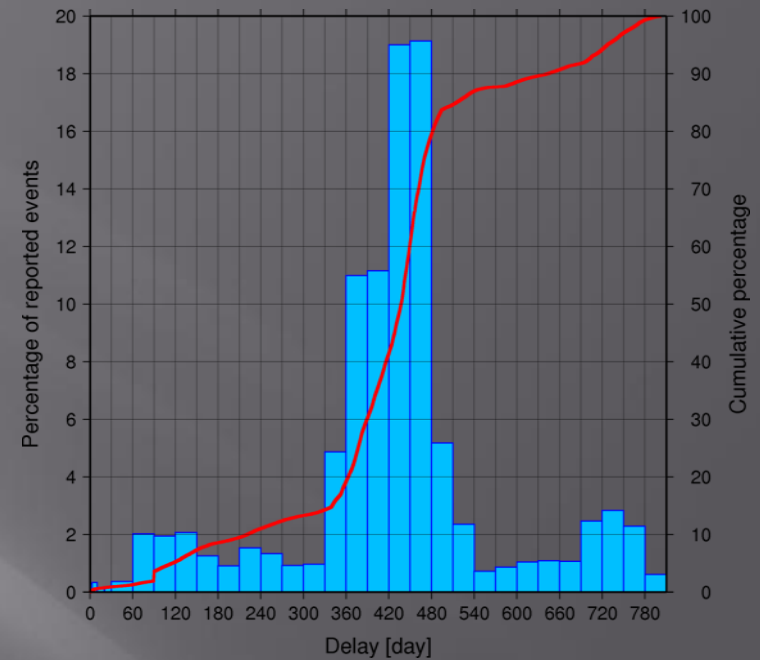
the ISC data users had to complement the ISC data with data from other sources to cover the most recent 2 years.



Timeliness of network bulletin data collection



July 2005-
Aug 2006



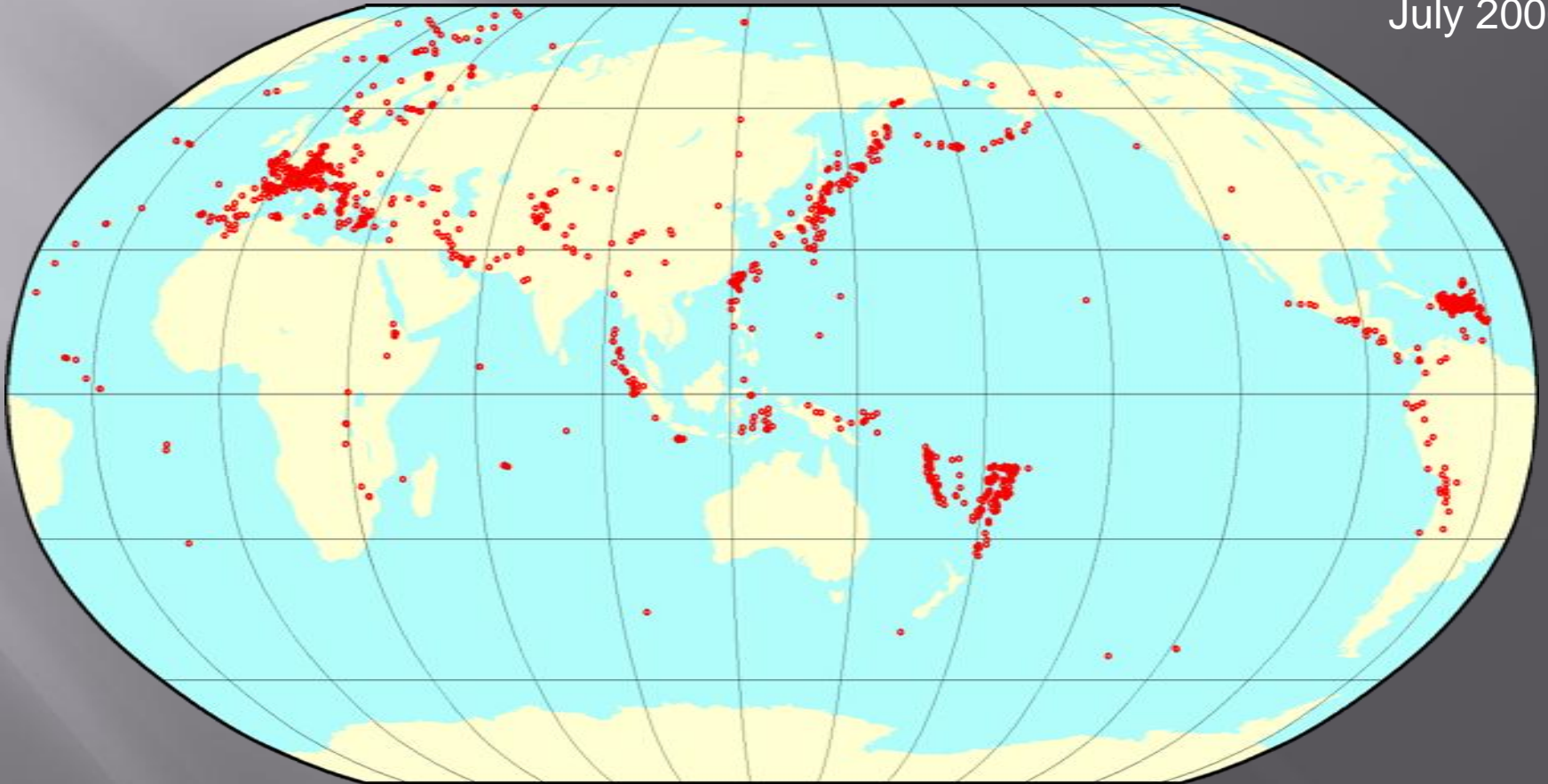
An event is counted when the **first hypocentre** estimate is reported to ISC

An event is counted when the **last reviewed station arrival** is reported to ISC

At present it takes:
16 months to collect **minimum** information
24 months to collect **all** information
for $\approx 95\%$ of all events in the ISC Bulletin.

Available within 0-3 days

Aug 2005 -
July 2006



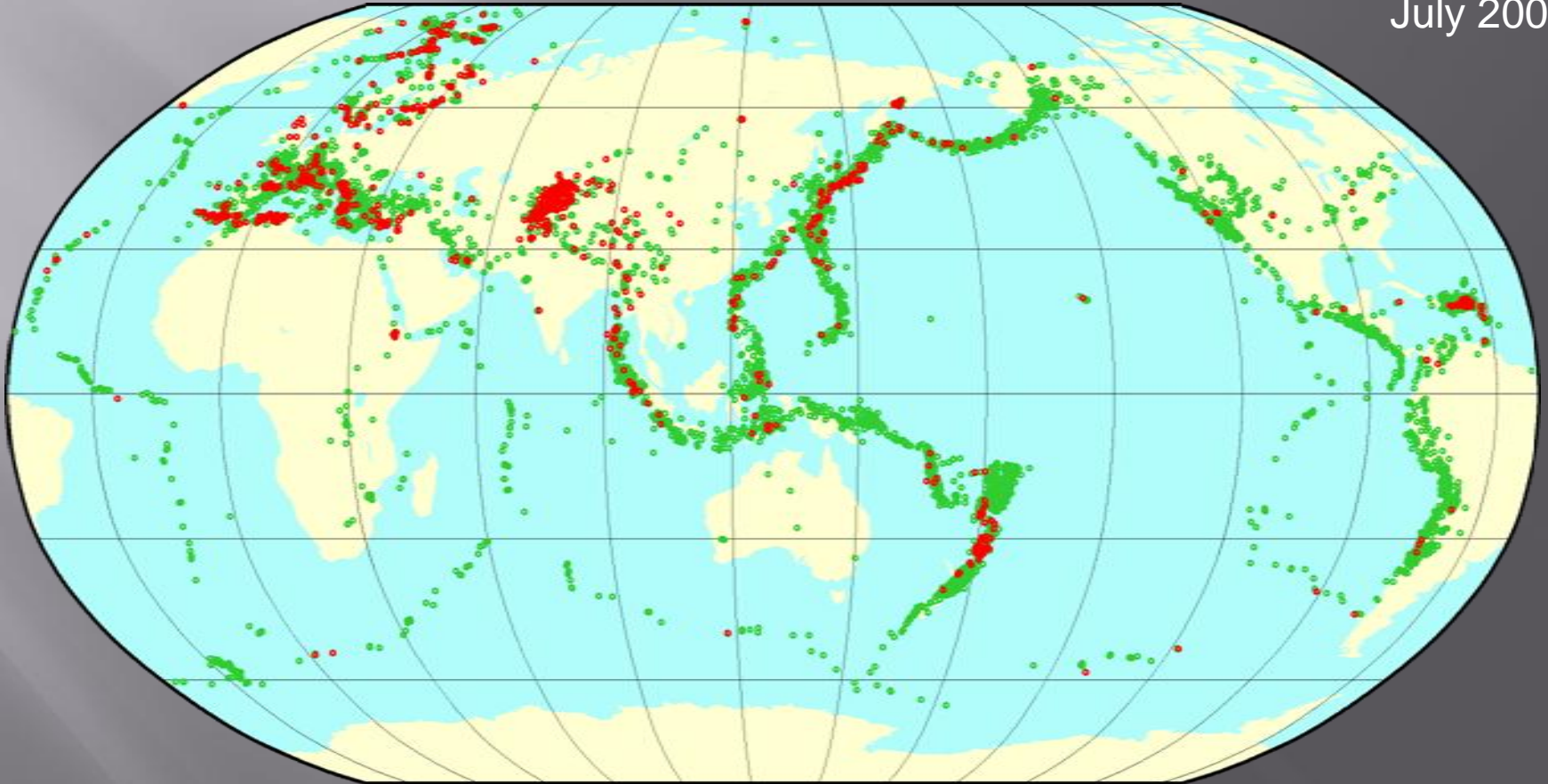
Available within 3-10 days

Aug 2005 -
July 2006



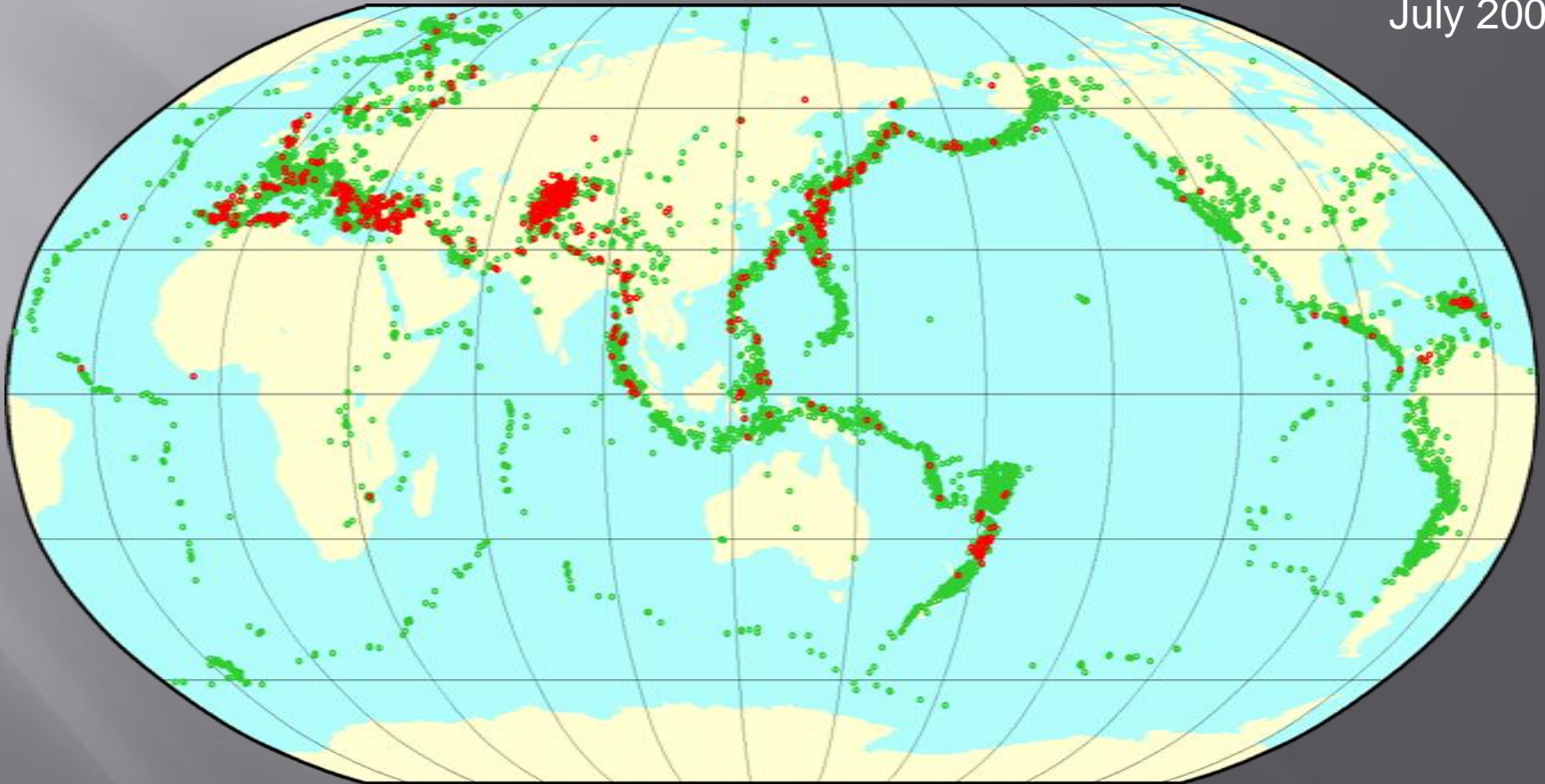
Available within 10-20 days

Aug 2005 -
July 2006



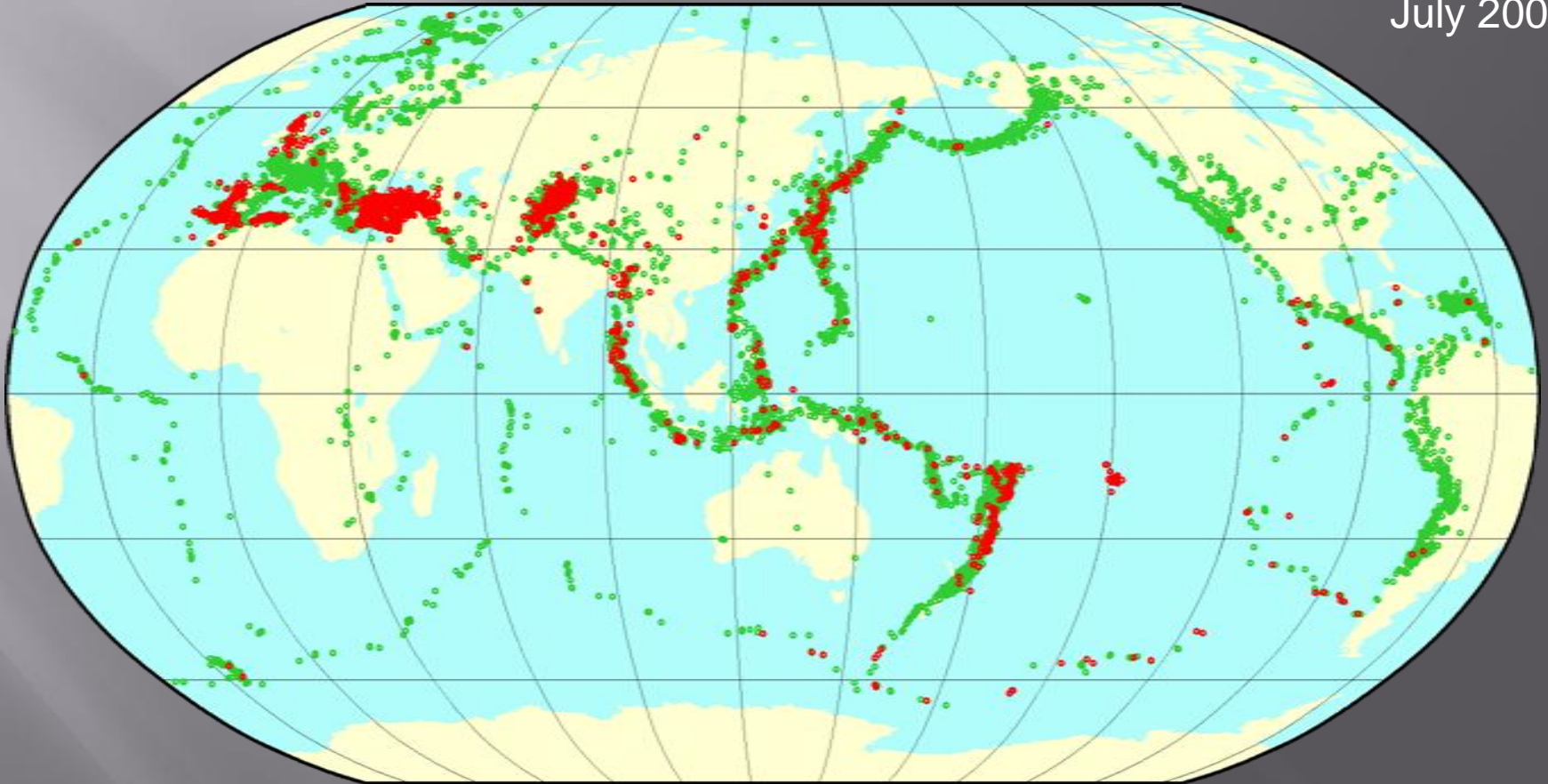
Available within 20-30 days

Aug 2005 -
July 2006



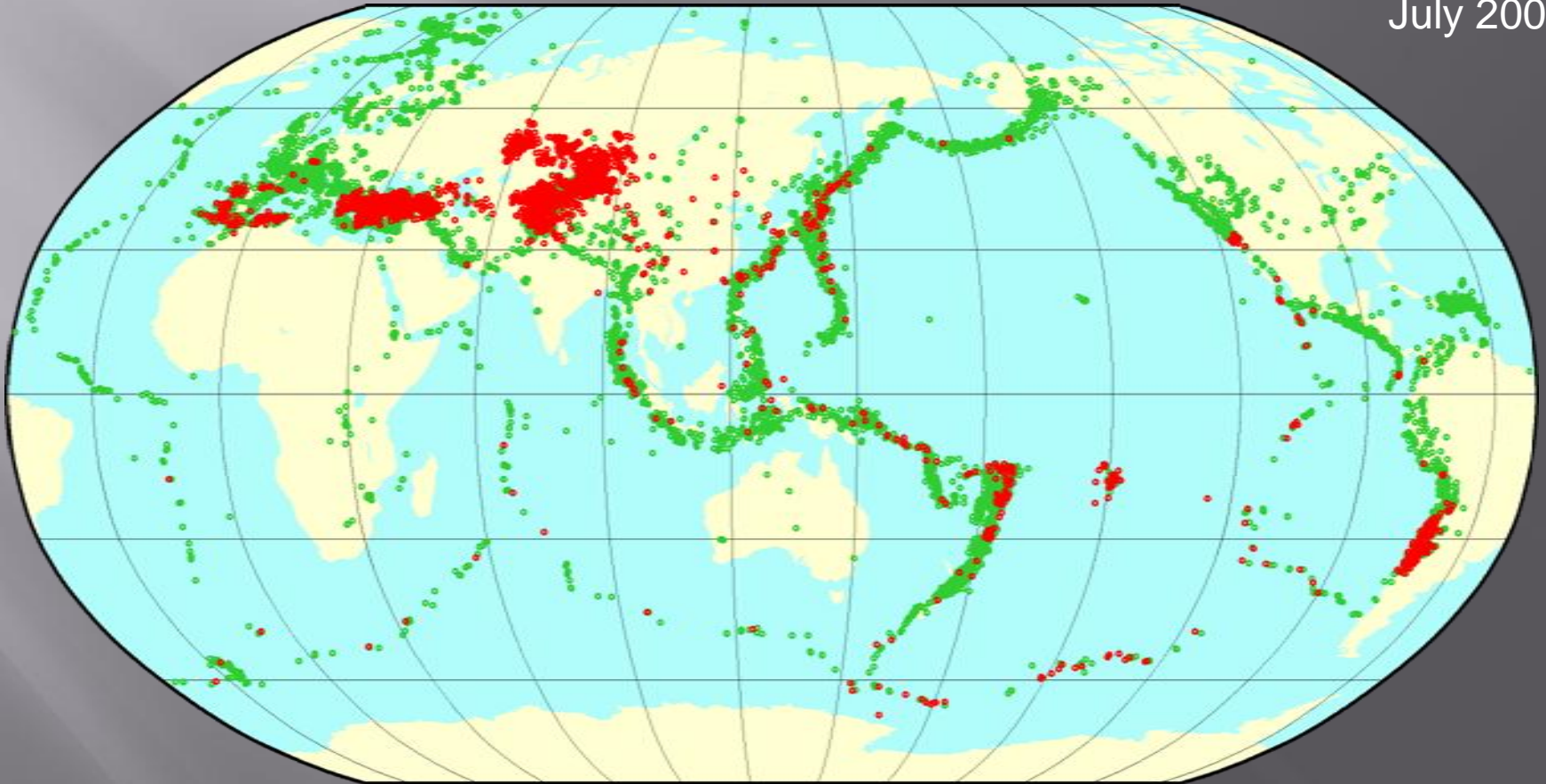
Available within 30-60 days

Aug 2005 -
July 2006



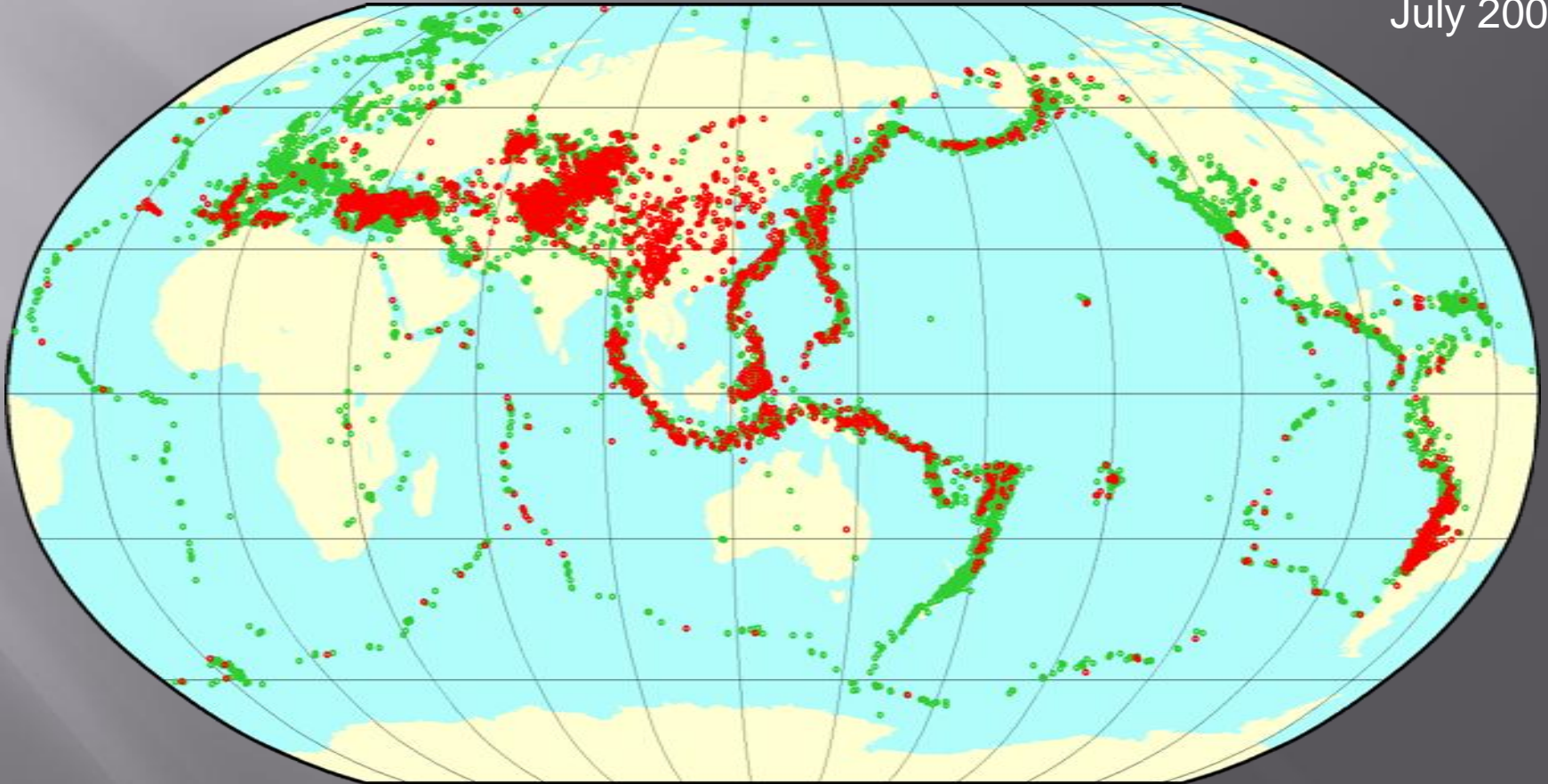
Available within 60-90 days

Aug 2005 -
July 2006



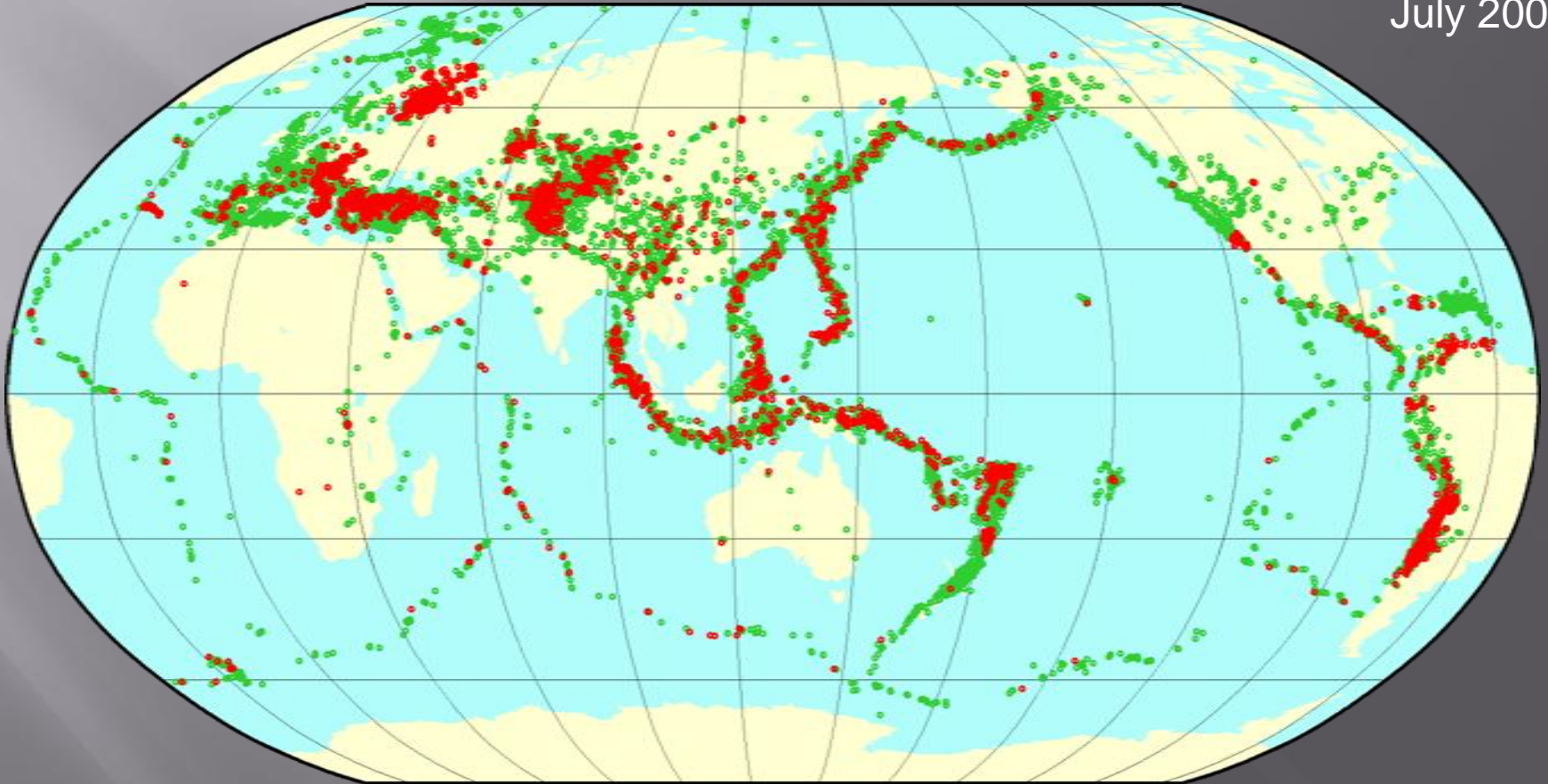
Available within 90-120 days

Aug 2005 -
July 2006



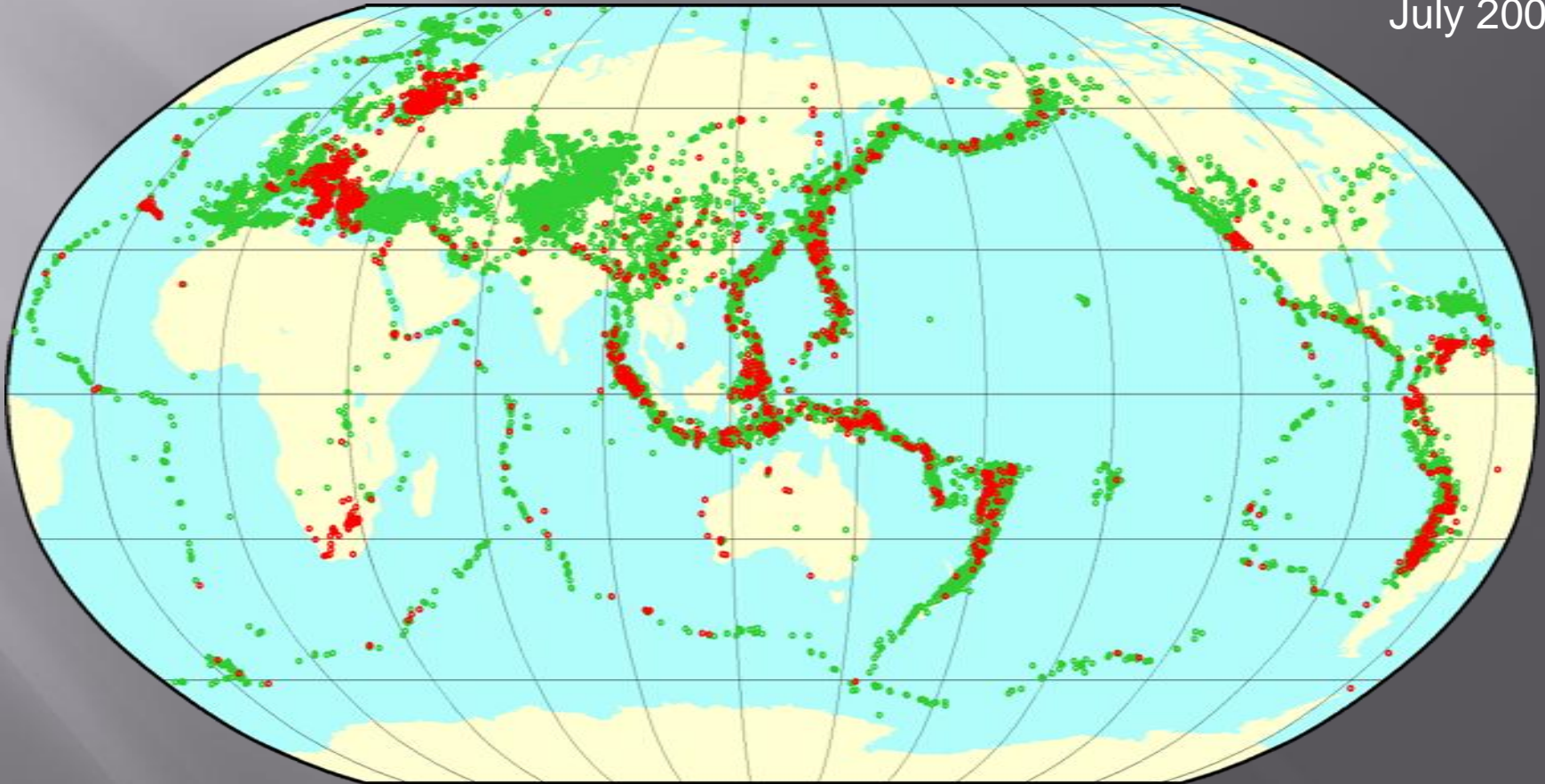
Available within 120-150 days

Aug 2005 -
July 2006



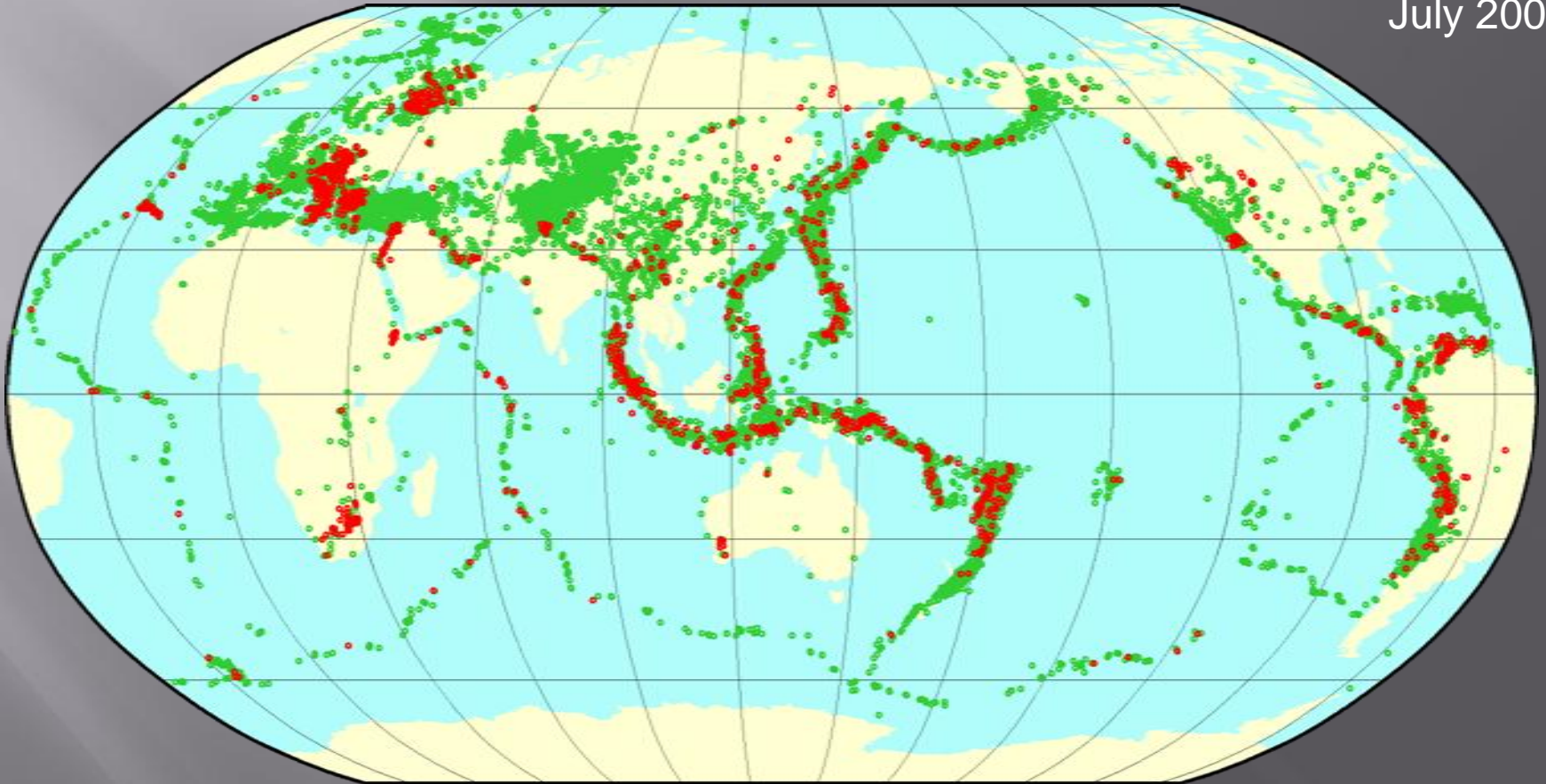
Available within 150-180 days

Aug 2005 -
July 2006



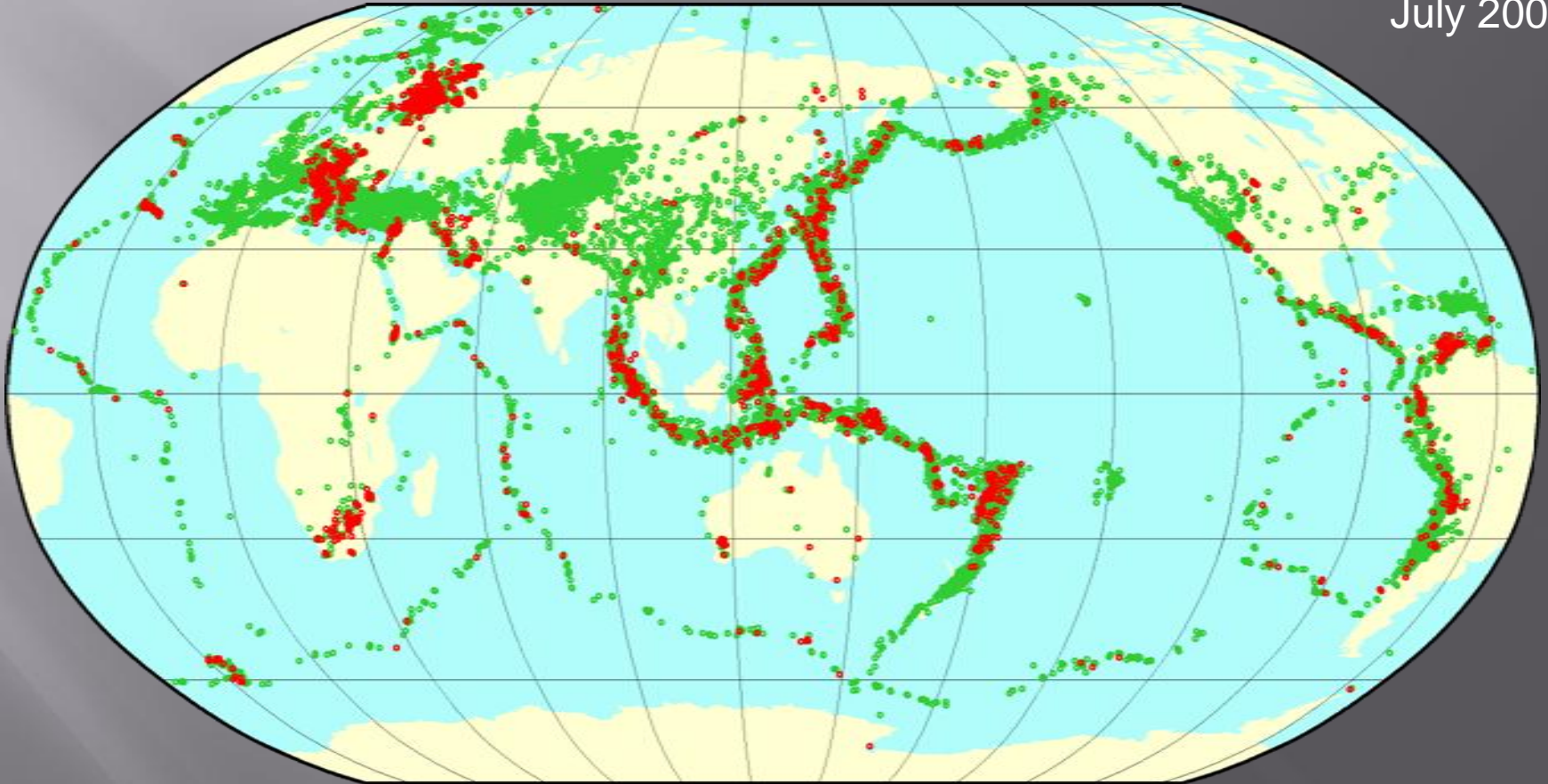
Available within 180-210 days

Aug 2005 -
July 2006



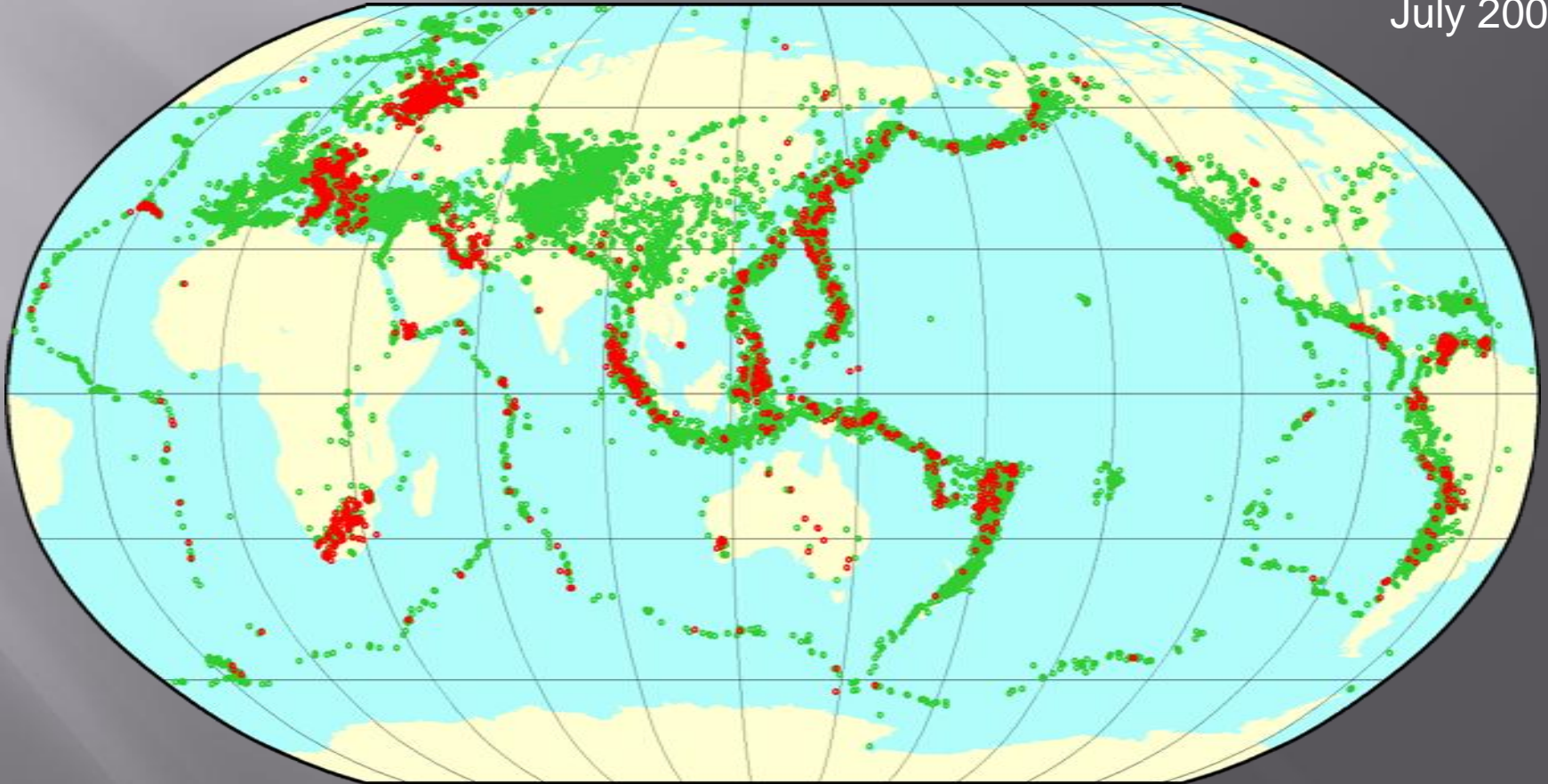
Available within 210-240 days

Aug 2005 -
July 2006



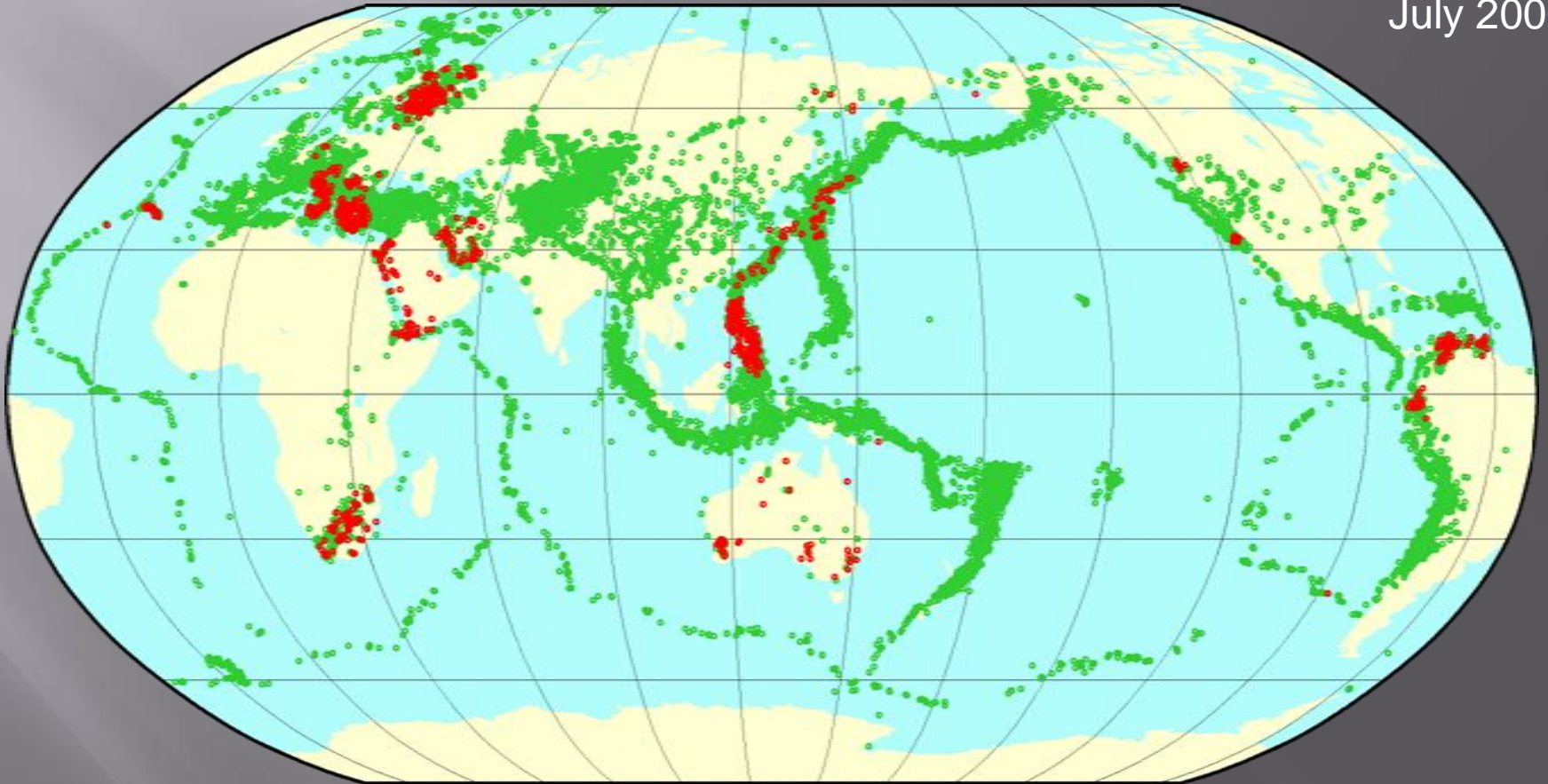
Available within 240-270 days

Aug 2005 -
July 2006



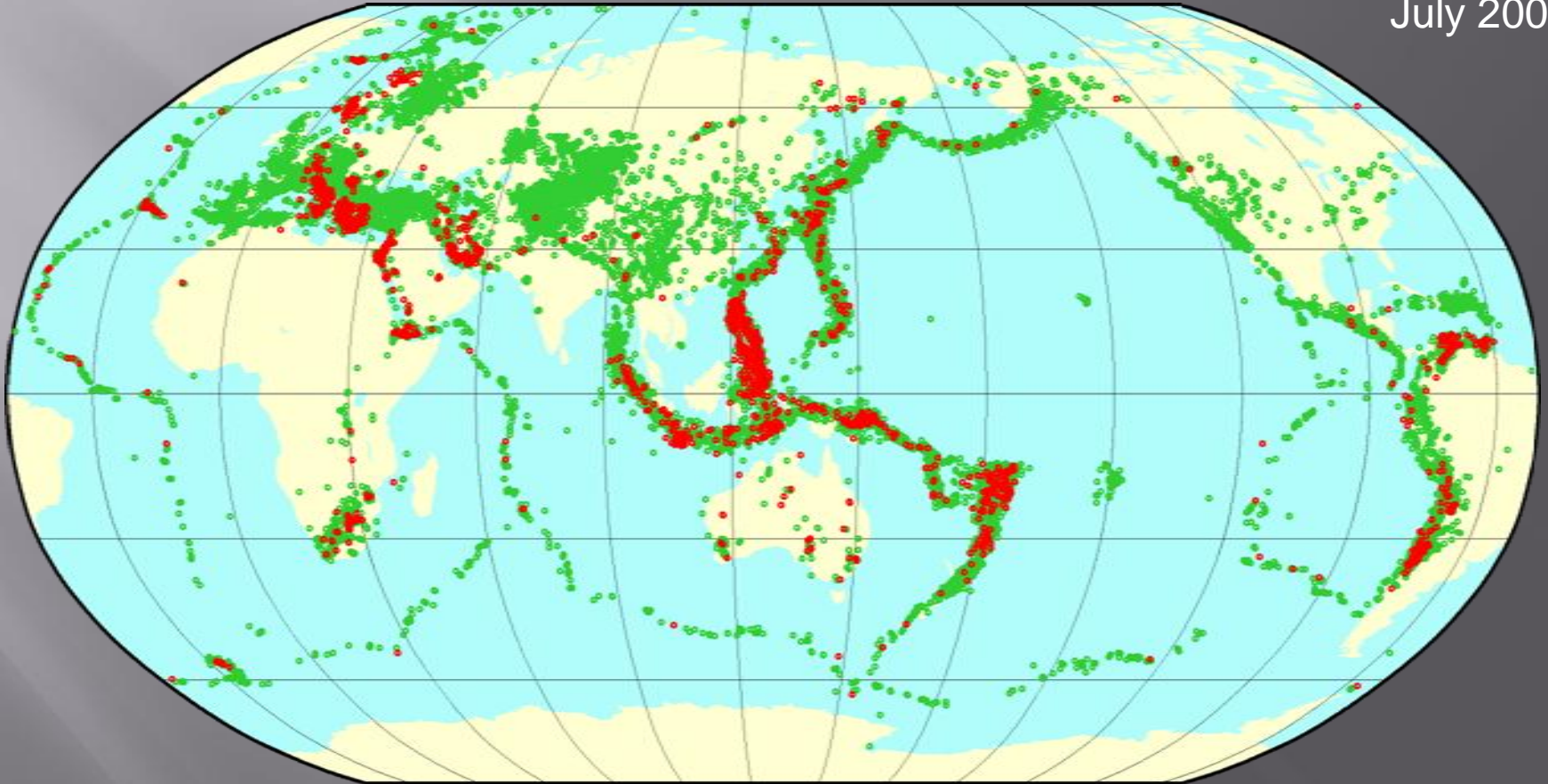
Available within 270-300 days

Aug 2005 -
July 2006



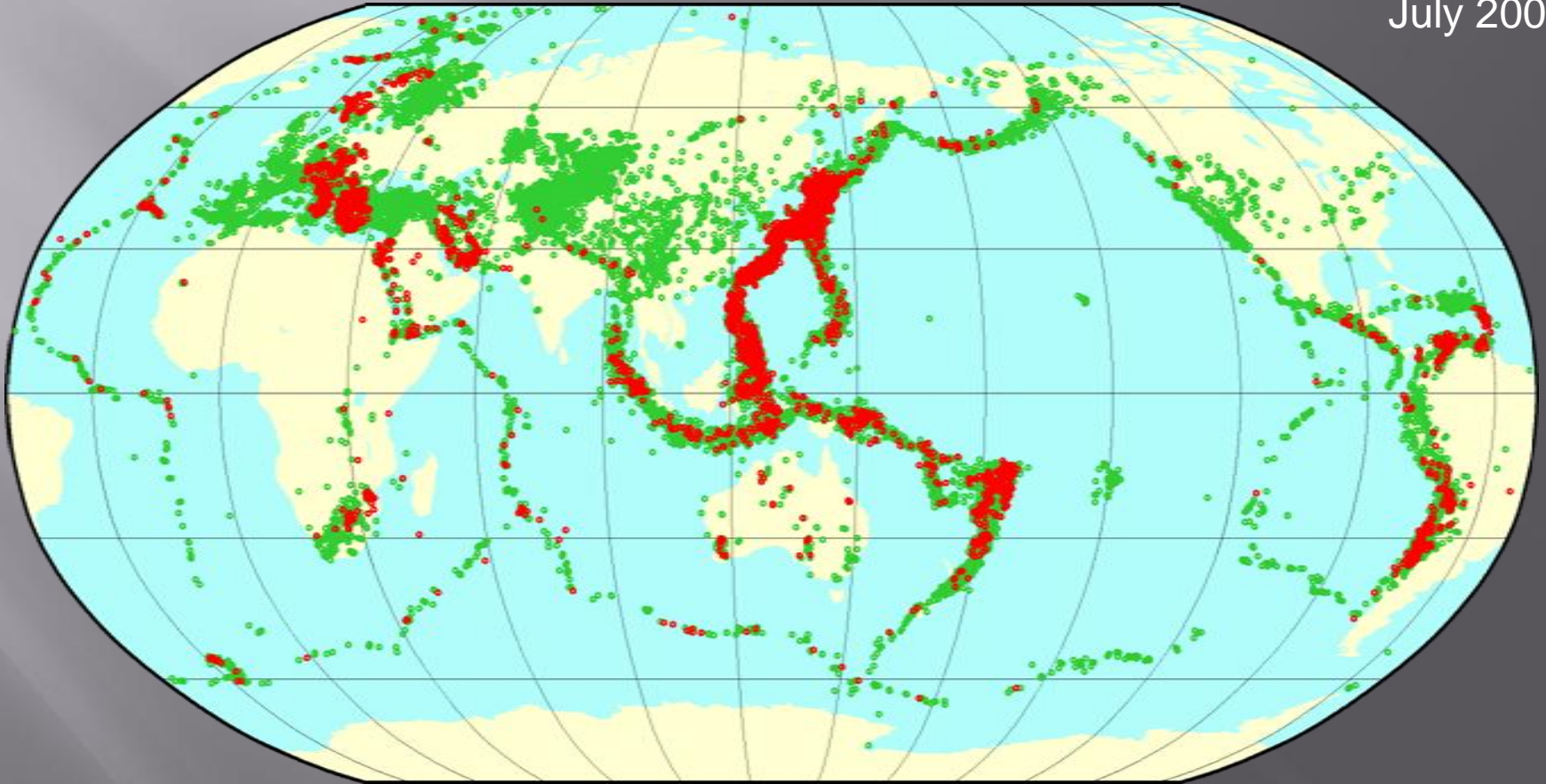
Available within 300-330 days

Aug 2005 -
July 2006



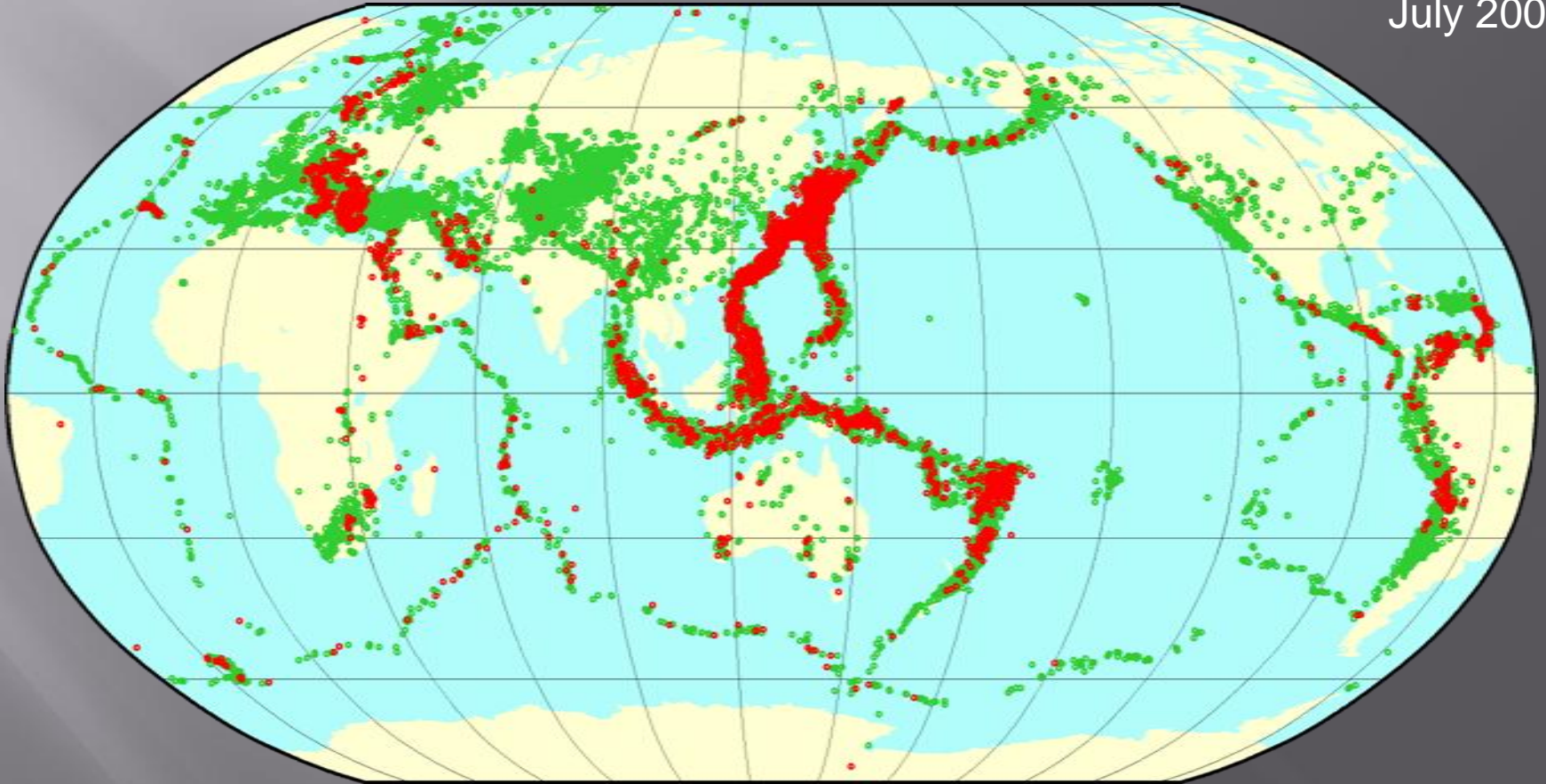
Available within 330-360 days

Aug 2005 -
July 2006



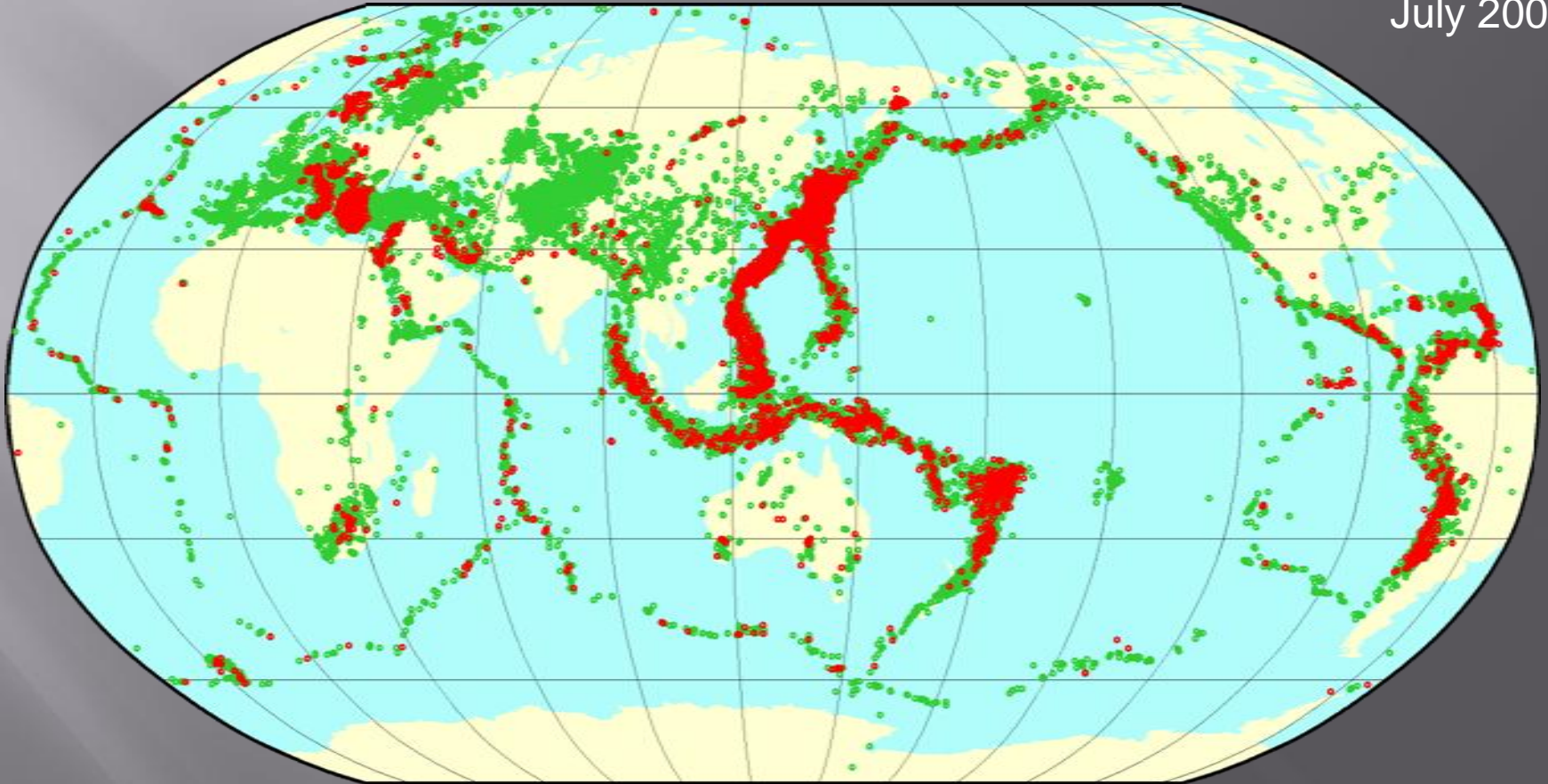
Available within 360-390 days

Aug 2005 -
July 2006



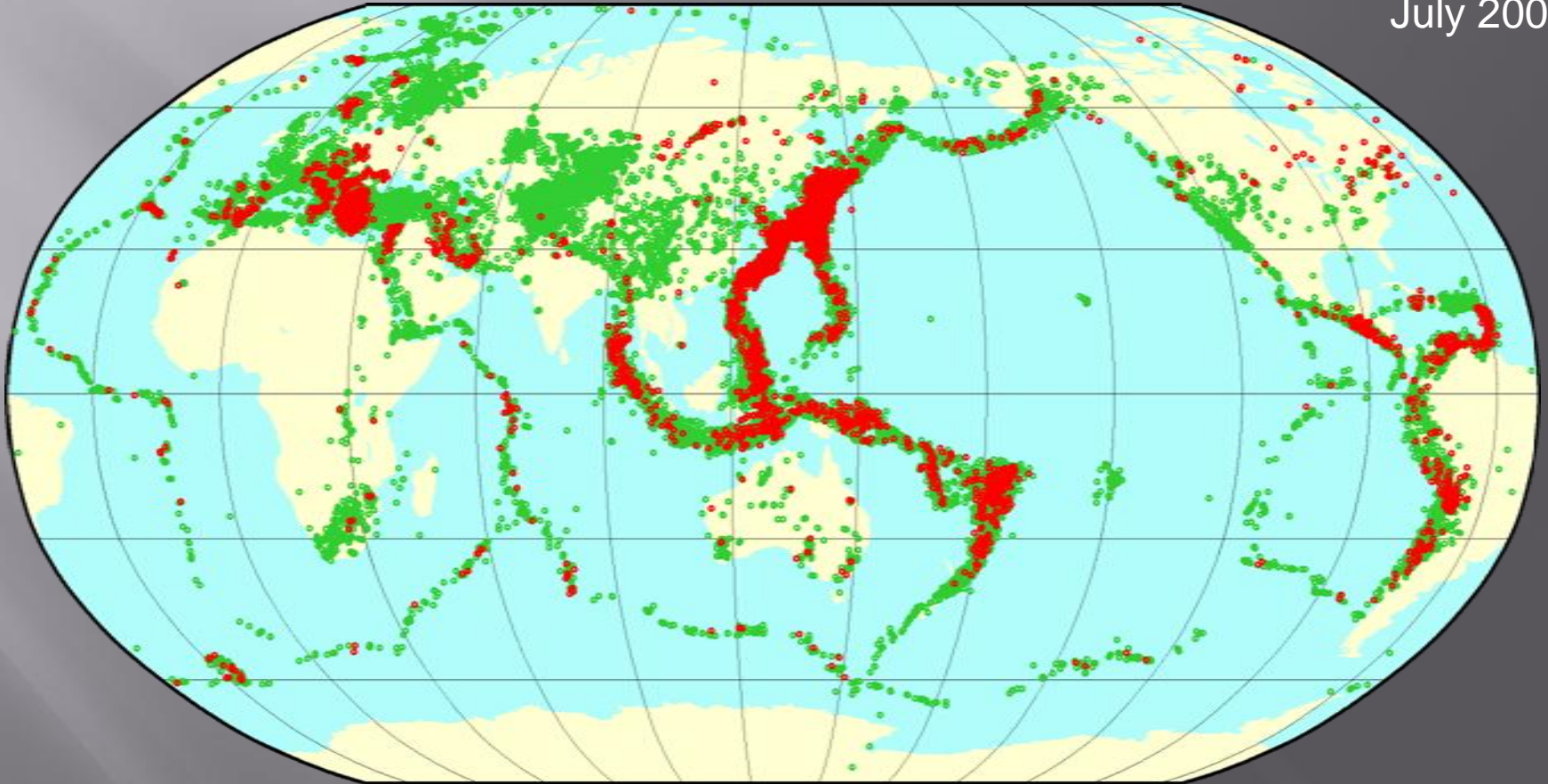
Available within 390-420 days

Aug 2005 -
July 2006



Available within 420-450 days

Aug 2005 -
July 2006



Available within 450-480 days

Aug 2005 -
July 2006



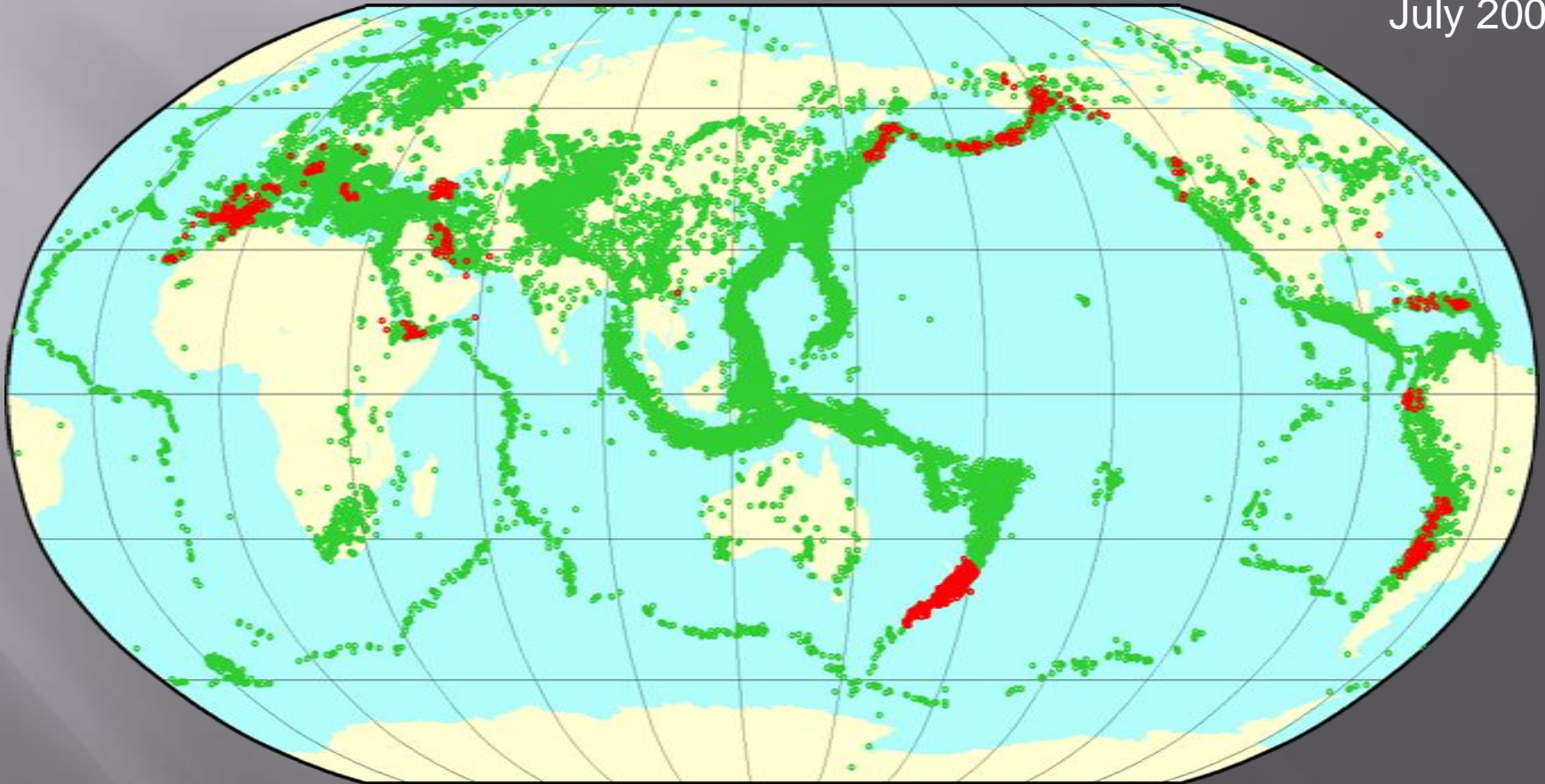
Available within 480-510 days

Aug 2005 -
July 2006



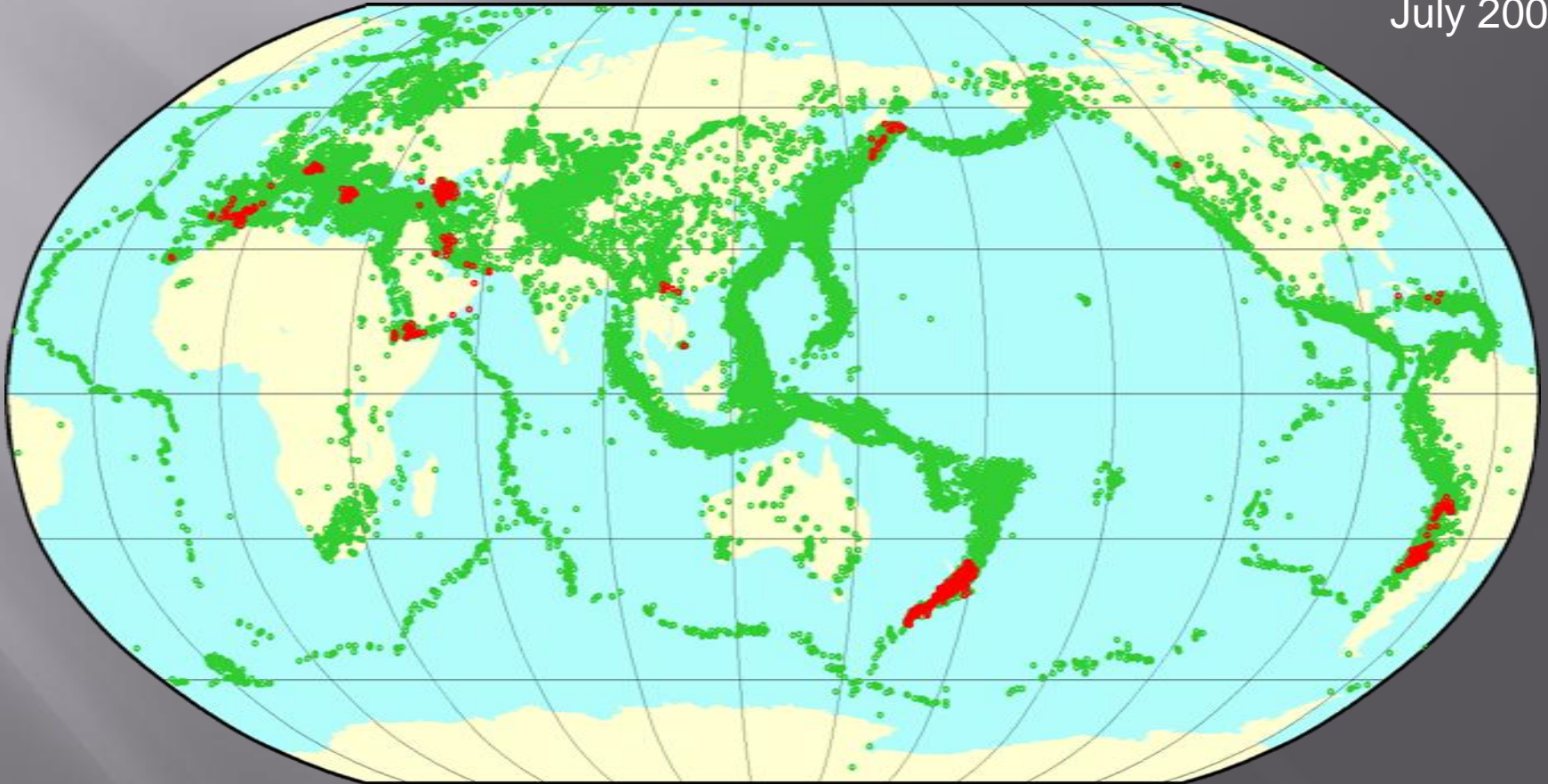
Available within 510-540 days

Aug 2005 -
July 2006



Available within 540-570 days

Aug 2005 -
July 2006



Available within 570-600 days

Aug 2005 -
July 2006



Available within 600-630 days

Aug 2005 -
July 2006



Available within 630-660 days

Aug 2005 -
July 2006



Available within 660-690 days

Aug 2005 -
July 2006



Available within 690-720 days

Aug 2005 -
July 2006



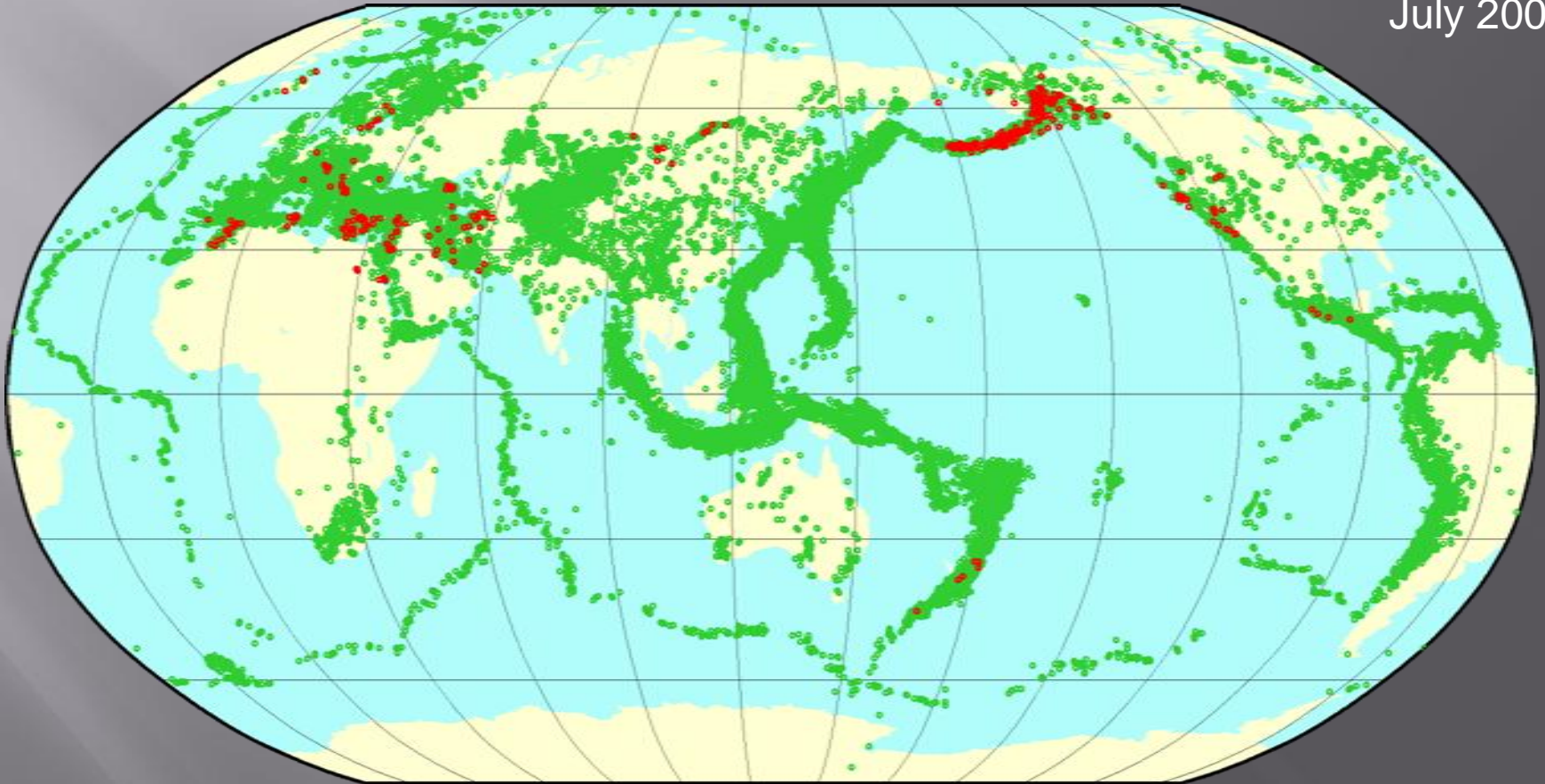
Available within 720-750 days

Aug 2005 -
July 2006



Available within 750-780 days

Aug 2005 -
July 2006



Available within 780-900 days

Aug 2005 -
July 2006

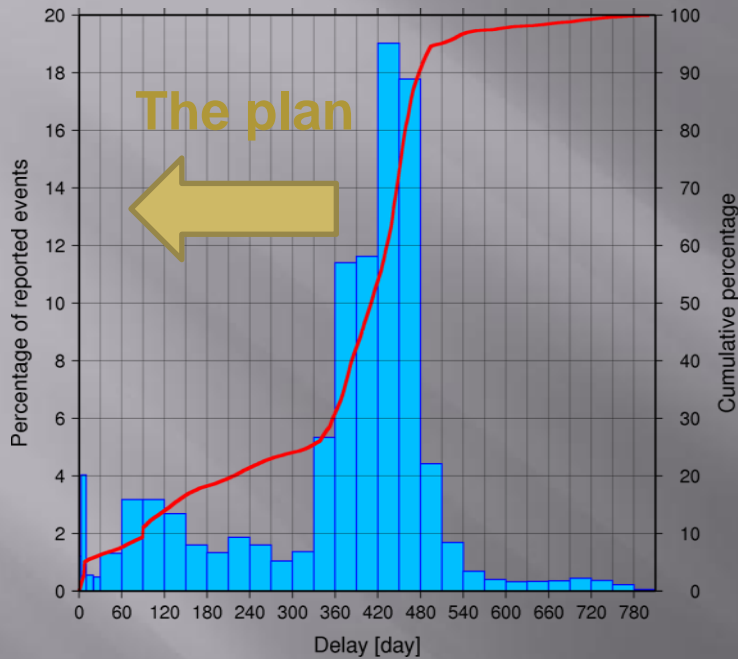


The plan is:

- ✓ To have the ISC database populated with the **most accurate data available at each point in time.**
- ✓ This can be achieved by collecting provisional reviewed bulletin data prior to normal collection of final reviewed data.
- ✓ Provisional data will be updated where necessary.
- ✓ Provisional data are going to be **substituted with final reviewed data** from agencies once those become available.
- ✓ The ISC is going to make these data available through the existing web-search mechanism with **links to original sources of information** and further increasing a visibility of data centres and national seismic networks.

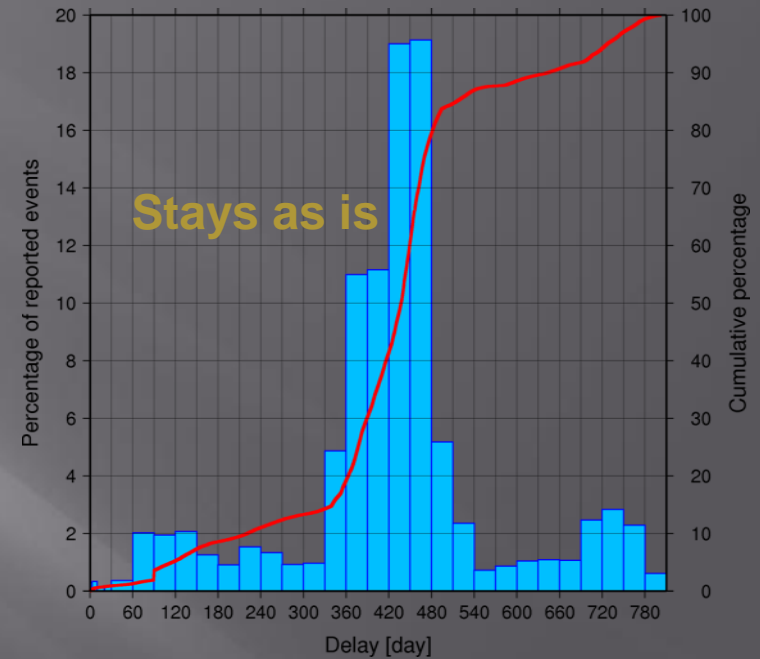
Expected timeliness of ISC data collection

Provisional



July 2005-
Aug 2006

Final



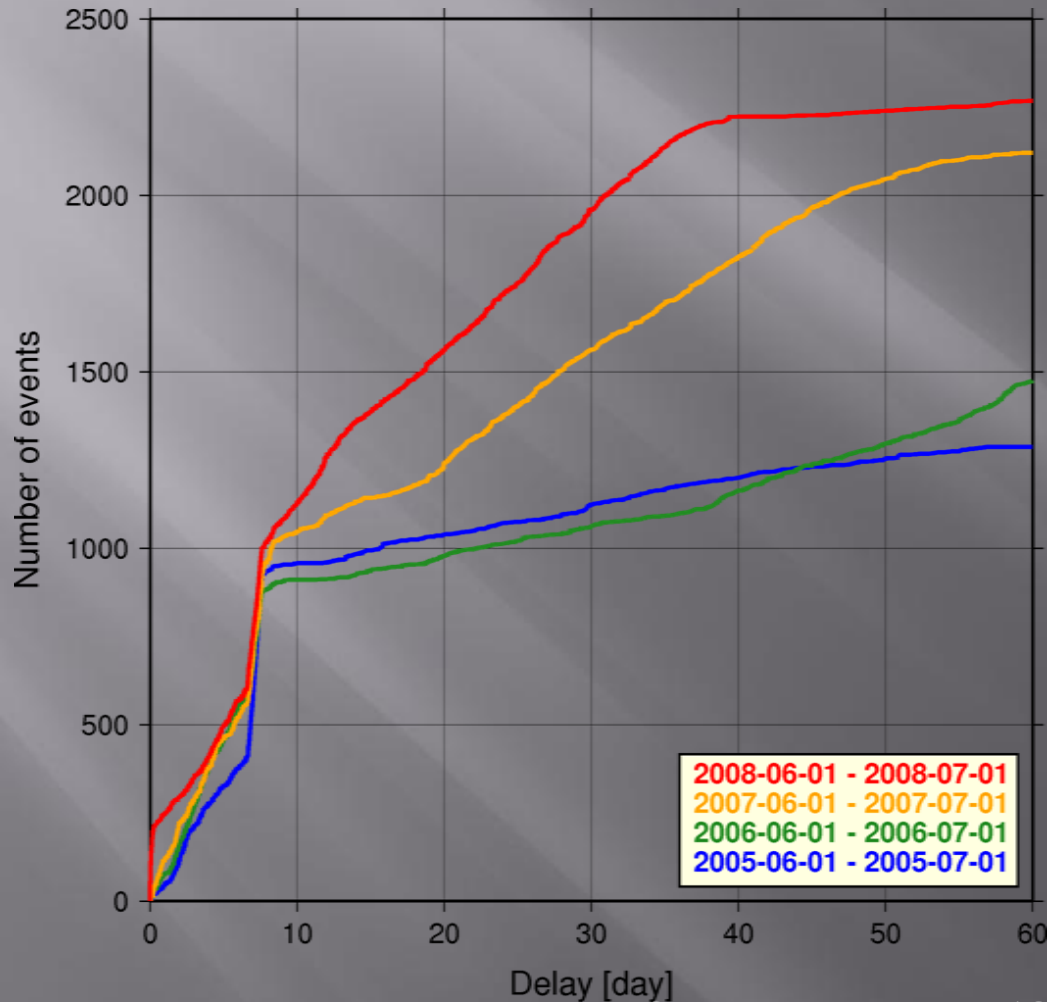
We hope to receive a provisional bulletin information about many more seismic events much sooner than now.

Collection of final reviewed bulletins should stay as is.

Important notice:

- × The ISC **is not** going to provide a 24x7 service
- × The ISC **is not** planning to compute its own solutions until 18-24 months after real time.
- × The ISC **is not** planning to issue earthquake notification messages
- × The ISC reviewed bulletin **is not** going to be based on purely automatic data.

First results of stepping up the ISC collection procedure.



Comparative timeliness of data collection for the month of June
2005, 2006, 2007, 2008



International Seismological Centre

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 Select Language

Gadgets powered by Google

On-line Bulletin: Rectangular Selection

Bulletin Type Format

Select events with a hypocentre computed by

	between	Minimum	Maximum	Units
date hour		<input type="text" value="2008/08/05 00"/>	<input type="text" value="2008/09/05 01"/>	4-digit year, 2-digit month, day, hour
latitude		<input type="text"/>	<input type="text"/>	decimal degrees, <0 for south
longitude		<input type="text"/>	<input type="text"/>	decimal degrees, <0 for west
depth		<input type="text"/>	<input type="text"/>	or unknown <input type="checkbox"/> kilometres
defining phases		<input type="text"/>	<input type="text"/>	or unknown <input type="checkbox"/> integer count

and a [magnitude](#) of type computed by between

magnitude	<input type="text"/>	<input type="text"/>	or unknown <input type="checkbox"/>	magnitude units
no. amplitudes	<input type="text"/>	<input type="text"/>	or unknown <input type="checkbox"/>	integer count

For each selected event include:

Headers
 Comments
 Links
 Secondaries
 Magnitudes
 Phases

Lake Baikal Region, 27-08-2008


Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.isc.ac.uk/cgi-bin/web-db-v3?start_year=2008&end_year=2008&start_month=8&end_m...

International Seismological Centre x http://www.isc.a...clude_phases=on x

Event 11222332 Lake Baykal region



Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/08/27	01:35:29.10			51.7500	104.2100								60				CSEM	10411388
2008/08/27	01:35:31.00	0.600		51.7270	104.2460f				10.0f				5				IGIL	10431070
2008/08/27	01:35:32.10	0.800		51.6200	104.1350				16.0f		37						NEIC	10439157
(Felt (V) at Irkutsk. Also felt (III) at Ulaanbaatar, Mongolia. Felt as far north as Tulun, as far east as Chita, as far south as) (Tosontsengel, Mongolia and as far east as Kyzyl.)																		
2008/08/27	01:35:35.38	7.66	0.100	51.8360	103.6110	336.0	65.00	100	25.0f		12		334	38.82	47.74	uk	NAO	10411382
(Uncertainty: 95 % ellipse)																		
2008/08/27	01:35:29.00			51.6400	104.1500				10.0				21				MOS	10412726
(#PRIME)																		

Magnitude	Err	Nsta	Author	OrigID
Mw	6.3		CSEM	10411388
mb	5.7		VIE	10411388
mb	5.6		BUC	10411388
mb	5.8		BEO	10411388
MS	7.0		IGIL	10431070
mb	5.8		NEIC	10439157
MS	6.2		NEIC	10439157
MW	6.2		NEIC	10439157
ME	5.9		USGS	10439157
MW	6.2		GCMT	10439157
mb	4.9		NAO	10411382
MS	6.1		MOS	10412726

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TLY	0.32	277.6	P	01:35:36.2												1
TLY	0.32	277.6	Pg	01:35:36.8												1
TLY	0.32	277.6	P	01:35:37.003										e		1

NORSAR

NORSAR alert bulletin - Mozilla Firefox

File Edit View History Bookmarks Tools Help


http://www.norsardata.no/NDC/bulletins/alert/

International Seismological Centre x http://www.isc.a...nclude_phases=on x NORSAR alert bulletin x

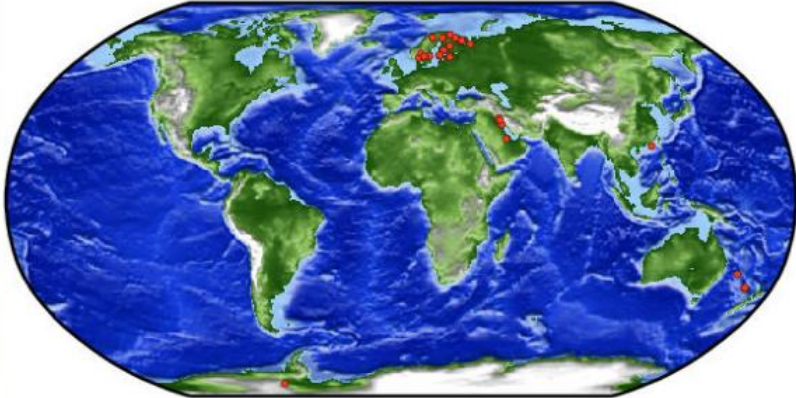
NORSAR

Exploring t

- NORSAR home
- Seismology
- Earthquake Reports
 - Bulletins
 - Regional reviewed
 - Telesismic reviewed
 - GBF
 - Single-station
 - Alert
 - Recent earthquakes
 - Station information
 - Waveform data
 - LP and RN data
- Nuclear Test Ban

 jordskjelv.no

Automatic NORSAR Alert Bulletin



These solutions are fully automatic, and so may have large errors in location, or be altogether incorrect. Although the coverage is worldwide, the sensitivity is greatest in Fennoscandia as the solutions only use stations in Scandinavia and Svalbard. Clicking on the origin time shows more details about the solution. Clicking on the array name shows the input to the hypocenter location program.

Date	Time	Array	Lat	Lon	Nd	RMS	Mag	Area
2008-09-04 12:09:59.6		HFS	59.48	16.11	7	0.001	-	Vaestmanland Region Sweden
2008-09-04 11:09:55.1		ARCES	69.39	30.67	7	0.001	-	Norway-Murmansk border region
2008-09-04 10:53:19.5		FINES	59.43	27.44	6	0.001	-	Baltic States - Belarus - Northwestern Russia region
2008-09-04 10:30:00.7		ARCES	67.95	26.11	7	0.000	-	Central Lapland Finland
2008-09-04 09:35:52.6		NE2	-36.80	167.28	10	0.256	4.8	Northwest of New Zealand
2008-09-04 09:35:53.8		NOA	-36.10	166.81	9	0.308	5.0	Northwest of New Zealand
2008-09-04 09:36:06.2		FINES	-30.65	159.93	8	0.367	-	East of Australia
2008-09-04 08:33:30.1		NE2	58.69	9.76	6	0.045	-	Skagerrak
2008-09-04 06:34:50.0		ARCES	67.70	33.70	8	0.002	-	Baltic States - Belarus - Northwestern Russia region
2008-09-04 03:26:48.7		ARCES	66.55	37.08	5	0.001	-	Baltic States - Belarus - Northwestern Russia region

European-Mediterranean Seismological Centre



Centre Sismologique Euro-Méditerranéen European-Mediterranean Seismological Centre

Google™ Custom Search

Search EMSC

Current time: 2008-09-04 10:31:06 UTC

Member access

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Pwd

Sign in

Earthquake Information

Euro-Med seismicity

How it works

Database & Documents

News

Projects

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Real Time Seismicity

for details on a given earthquake, click on the Date & Time field

Disclaimer

Define your criteria to find specific events - Quick search: mag>=4 | mag>=5

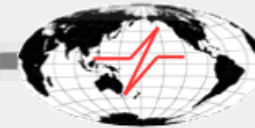
FAQ

Date & Time UTC	Latitude degrees	Longitude degrees	Depth km	Mag.	Region name	Last update
1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 ▶▶ Back in time						
2008-09-04 09:36:37.1	11.81 S	167.21 E	33	mb 5.9	SANTA CRUZ ISLANDS	2008-09-04 10:15
2008-09-04 09:09:55.4	50.53 N	13.55 E	10		CZECH REPUBLIC	2008-09-04 09:13
2008-09-04 08:40:01.8	36.81 N	21.70 E	14	ML 2.6	SOUTHERN GREECE	2008-09-04 08:43
2008-09-04 08:34:39.6	40.65 N	37.15 E	7	MD 3.0	CENTRAL TURKEY	2008-09-04 08:52
2008-09-04 08:07:50.0	0.22 S	124.41 E	10	M 4.5	MOLUCCA SEA	2008-09-04 09:46
2008-09-04 06:21:51.8	10.58 N	85.78 W	64	mb 4.3	COSTA RICA	2008-09-04 08:55
2008-09-04 05:35:05.1	45.35 N	26.94 E	10	ML 2.6	ROMANIA	2008-09-04 08:54
2008-09-04 05:17:36.8	38.89 N	25.89 E	10	ML 3.3	AEGEAN SEA	2008-09-04 08:53
2008-09-04 05:13:19.4	38.31 N	29.95 W	2	ML 4.2	AZORES ISLANDS, PORTUGAL	2008-09-04 06:43
2008-09-04 04:54:23.5	36.99 N	29.15 E	8	MD 3.0	WESTERN TURKEY	2008-09-04 06:33
2008-09-04 04:20:33.4	37.00 N	29.14 E	5	ML 3.3	WESTERN TURKEY	2008-09-04 06:43
2008-09-04 03:06:43.6	37.46 N	38.58 E	14	MD 3.3	EASTERN TURKEY	2008-09-04 07:12
2008-09-04 02:45:46.5	39.38 N	25.33 E	10	ML 3.0	AEGEAN SEA	2008-09-04 08:52
2008-09-04 02:04:10.9	51.13 N	157.19 E	70	mb 4.2	NEAR EAST COAST OF KAMCHATKA	2008-09-04 05:33
2008-09-04 01:55:31.6	36.69 N	21.41 E	20	ML 3.4	SOUTHERN GREECE	2008-09-04 06:42
2008-09-04 01:49:48.4	6.58 S	106.07 E	57	M 4.3	JAVA, INDONESIA	2008-09-04 06:28
2008-09-04 01:19:23.5	39.62 N	23.77 E	5	ML 2.5	AEGEAN SEA	2008-09-04 01:23
2008-09-04 00:13:20.1	37.49 N	38.55 E	5	ML 3.0	EASTERN TURKEY	2008-09-04 06:40
2008-09-03 23:46:56.0	40.74 N	20.50 E			ALBANIA	2008-09-04 07:35
2008-09-03 23:04:08.6	40.78 N	21.01 E	5	ML 2.6	GREECE	2008-09-03 23:09
2008-09-03 22:43:16.3	32.44 N	47.28 E	50	mb 5.1	IRAN-IRAQ BORDER REGION	2008-09-03 23:23
2008-09-03 22:34:39.2	1.43 N	97.03 E	10f	mb 5.0	NIAS REGION, INDONESIA	2008-09-04 04:14
2008-09-03 21:32:28.9	10.98 N	86.32 W	59	M 4.5	OFF COAST OF COSTA RICA	2008-09-04 06:22
2008-09-03 20:21:13.5	51.42 N	16.10 E		ML 2.1	POLAND	2008-09-03 20:26
2008-09-03 18:39:58.4	44.99 N	6.65 E	10	ML 2.4	FRANCE	2008-09-03 18:44
2008-09-03 18:29:04.6	35.71 N	31.61 E	10	ML 3.4	CYPRUS REGION	2008-09-04 06:26
2008-09-03 18:06:34.6	35.10 N	33.16 E	30f	ML 3.0	CYPRUS REGION	2008-09-04 06:23
2008-09-03 18:01:03.2	37.10 N	28.97 E	10	ML 3.0	WESTERN TURKEY	2008-09-04 08:52

Geophysical Survey, Russian Academy of Sciences

ENG
RUS

RUSSIAN ACADEMY OF SCIENCES



GEOPHYSICAL SURVEY

INFORMATION

CATALOG

WAVE FORM

ALERT SURVEY

SOFT

LINKS

NETWORK

ABOUT

Quake happened 04-Sep-2008 02:04:10.9 in region Near east coast of Kamchatka lat: 51.13 lon: 157.19 mb: 4.2/4

Recent earthquakes located by Alert Survey

Choice by number of events:

10



Information is presented
for last month period

Choice by date:

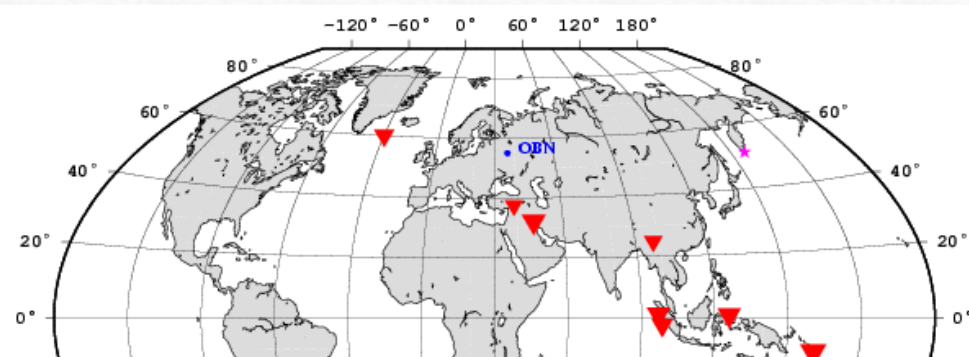
4-09-108



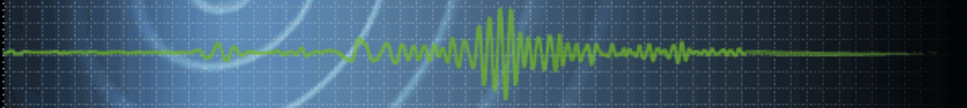

Format: dd-mm-yyyy

Recent 10 earthquakes

Click on a region for regional information



United States Geological Survey



Earthquake Hazards Program

Home **Earthquake Center** Regional Information About Earthquakes Research & Monitoring Other Resources

You are here: [Home](#) » Earthquake Center

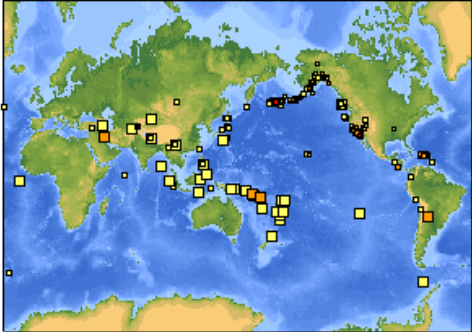
Latest Earthquakes

- USA
- World
- EQ Notification Service
- Feeds & Data
- Animations
- Recent Earthquakes: Last 8-30 Days
- Earthquake Archives
- Lists & Maps
- Search EQ Database
- EQ Summary Posters
- Scientific Data
- About EQ Maps
- Did You Feel It?
- Fast Moment Tensors
- Media Info
- PAGER
- Seismogram Displays
- ShakeMaps

Latest Earthquakes - Last 7 Days

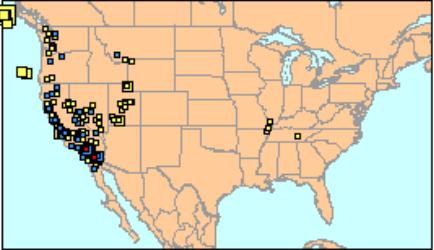
World (Magnitude 4+)

Thu Sep 04 11:06:50 GMT




USA (Magnitude 1+)


Thu Sep 04 11:14:09 GMT




CONTIGUOUS 48 STATES



ALASKA



HAWAII



PUERTO RICO

World Lists

- [Magnitude 2.5/4+](#)
- [Magnitude 5+](#)

World Regional Maps

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- [South America](#)
- [South Pacific](#)
- [West Hemisphere](#)

USA Lists

- [Magnitude 1+](#)
- [Magnitude 3+](#)

USA Regional Maps

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- [California/Nevada](#)
- [Central & Southeast](#)
- [Hawaii](#)
- [Long Valley](#)
- [Northeast](#)
- [Northwest](#)
- [Parkfield](#)

Near coast of Eastern Honshu, 22-08-2008


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http://www.isc.ac.uk/cgi-bin/web-db-v3?start_year=2008&end_year=2008&start_month=8&end_month=8&start_day=2

International Seismological Centre

Event 11384402 Near east coast of eastern Honshu



Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/08/22	10:59:00			36.5000	140.7000				50.0								JMA	10369426
(Felt I=IV-IV J1)																		
2008/08/22	10:59:48.56	5.76	0.220	36.6408	139.8256	213.0	85.00	106	25.0f		7		343	60.66	74.05		NAO	10369152
(Uncertainty: 95 % ellipse)																		
2008/08/22	10:59:49.50		0.700	36.4770	140.3910				44.0		113						NEIC	10425525
2008/08/22	10:59:48.00			36.7700	140.4600				33.0				7				MOS	10369427
(#PRIME)																		

Magnitude	Err	Nsta	Author	OrigID
	5.1		JMA	10369426
mb	5.2		NAO	10369152
mb	5.1		NEIC	10425525
MB	5.6		MOS	10369427

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
MAJO	1.83	263.5	P	11:00:20.002											ce	1
ERM	5.64	20.9	P	11:01:13.002											ce	1
YSS	10.32	8.8	P	11:02:17.002											ci	1
PET	20.64	32.3	P	11:04:27.002											ci	1
ULN	26.87	304.9	P	11:05:27.002											ci	1
SEY	27.20	11.9	P	11:05:30.002											ci	1
BILL	34.50	16.8	P	11:06:35.002											ci	1
TIXI	35.46	353.7	P	11:06:42.002											ci	1
KURK	45.49	308.2	P	11:08:05.002											ci	1
KDAK	47.80	41.7	P	11:08:23.002											ci	1
COLA	49.71	32.1	P	11:08:39.002											ci	1
BRVK	50.24	312.4	P	11:08:42.002											ci	1
SPITS	60.63	348.7	P	11:09:56.084		57.8		6.90			56.1	3.6	0.37			1
KBS	60.78	350.0	P	11:09:57.002											ce	1
KBS	60.78	350.0	P	11:09:57.98											_i	1
KBS	60.78	350.0	AMb	11:10:00.49								73.9	0.85			1
KBS	60.78	350.0	AMS	11:52:31.15								202.5	16.60			1
PALK	61.56	257.1	P	11:10:03.002											ci	1
ARCES	63.97	339.2	P	11:10:19.002		53.0		4.10			208.7	19.6	0.55			1
ARCES	63.97	339.2	tx	11:10:19.064		50.3		7.00			21.6	28.7	0.58			1
ARCES	63.97	339.2	wp	11:10:25.035		42.8		7.20			10.2	4.3	0.43			1

Japan Meteorological Agency, recent events

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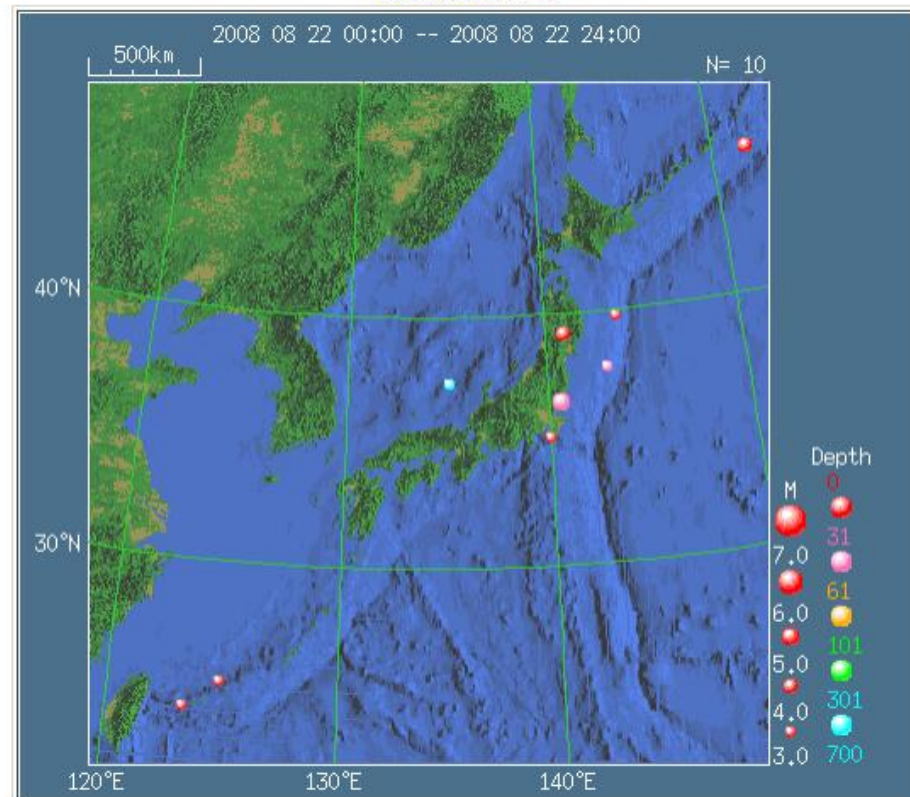
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Southern Sumatera, last Saturday

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http://81.149.237.71/cgi-bin/web-db-v3?event_id=11473230&out_format=IMS1.0&request=COM

DATA_TYPE BULLETIN IMS1.0:short
ISC Comprehensive Bulletin
Event 11473230 Southern Sumatera



Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2008/11/22	22:05:55			-4.6540	101.1840												NEIC
2008/11/22	22:05:56.50			-4.6000	101.2000				30.0		5						CSEM
2008/11/22	22:05:57.00			-4.4800	101.4800				33.0			9					MOS
2008/11/22	22:05:56.80	0.80	0.700	-4.7500	101.1200				30.0f				238				DJA

(#PRIME)


Magnitude	Err	Nsta	Author	OrigID
Mb	5.0		NEIC	10634560
M	5.1		CSEM	10636325
MB	5.3		MOS	10634562
M	5.0	5	DJA	10634559
mb	4.9	3	DJA	10634559
mB	5.2	3	DJA	10634559
MLv	5.1	0.2	DJA	10634559
Mw (mB)	4.6	3	DJA	10634559

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
MNAI	1.82	80.6	P	22:06:26.8								25.3			MLv	5.0	1
KSI	1.83	53.5	P	22:06:25.1								57.1			MLv	5.3	1
LWLI	2.94	95.3	P	22:06:42.3								11.3			MLv	5.2	1
LWLI	2.94	95.3	S	22:07:17.7								11.3			MLv	5.2	1
MDSI	3.06	85.2	P	22:06:43.1								3.5			MLv	4.8	1
MDSI	3.06	85.2	S	22:07:22.1								3.5			MLv	4.8	1
SDSI	3.81	4.6	P	22:06:53.8													1
PDSI	3.87	350.2	P	22:06:54.2								3.5			MLv	5.1	1
BLSI	4.16	98.7	P	22:07:01.6													1
PPI	4.33	350.4	P	22:07:01.6													1
RGRI	4.54	15.5	P	22:07:03.7													1
RBSI	4.73	103.5	P	22:07:06.5													1
CGJI	4.91	112.3	P	22:07:08.3													1
BKNI	5.07	359.0	P	22:07:11.0								2813.0			mb	5.1	1
CGJI	5.17	105.5	P	22:07:13.3								2651.0			mb	5.0	1

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- » Cuaca Umum (hari ini)
- » Cuaca Umum (esok)
- » Cuaca Dunia (hari ini)
- » Cuaca Dunia (esok)

GEOFISIKA » 60 Gempa Terkini (> 5.0 SR)



Terjadi pada	Lokasi	Magnitudo	Kedalaman	Wilayah
03-Sep-08 06:10:53 WIB	0.98 LU - 126.12 BT	5.2 SR	20 Km	115 km Tenggara Bitung-SULUT
02-Sep-08 18:00:07 WIB	8.32 LS - 120.42 BT	5.4 SR	126 Km	31 km BaratLaut Ruteng-NTT
02-Sep-08 15:59:59 WIB	0.45 LU - 97.85 BT	5.4 SR	10 Km	91 km BaratLaut TanahMasa-Sumut
02-Sep-08 10:14:38 WIB	6.58 LS - 130.16 BT	5.2 SR	139 Km	201 km BaratLaut Saumlaki-Maluku
02-Sep-08 07:06:48 WIB	4.75 LS - 101.10 BT	5.2 SR	35 Km	167 km BaratDaya Bengkulu-Bengkulu
02-Sep-08 00:19:13 WIB	4.37 LU - 126.01 BT	6.3 SR	10 Km	336 km TimurLaut Bitung-SULUT
30-Aug-08 02:34:37 WIB	3.45 LS - 101.65 BT	5.1 SR	30 Km	45 km BaratLaut Lais-Bengkulu



Southern Quebec, last Sunday

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http://81.149.237.71/cgi-bin/web-db-v3?event_id=11473275&out_format=IMS1.0&request=COMP

DATA_TYPE BULLETIN IMS1.0:short
ISC Comprehensive Bulletin
Event 11473275 Southern Quebec

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2008/11/23 11:47:02.12 0.08 0.190 47.0102 -70.7501 1.100 0.800 -1 18.0f 28 17 0.43 ke [OTT](#)
(12km east from Beaupre, Qc. Felt Eastern Background Seismic Zone. Was felt in Charlesbourg and Saint-Jean-de-Boischatel, Qc.)

Magnitude Err Nsta Author OrigID
MN 2.5 0.1 14 OTT 10639971

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
QCQ	0.43	237.5	PG	11:47:10.3												1
QCQ	0.43	237.5	SG	11:47:16.52												1
QCQ	0.43	237.5	Trac	11:47:16.99								61.5	0.08		MN 2.6	1
A54	0.50	27.1	PG	11:47:11.62											d	1
A54	0.50	27.1	SG	11:47:18.84												1
A54	0.50	27.1	Trac	11:47:19.12								40.7	0.06		MN 2.6	1
LMQ	0.61	28.0	PG	11:47:13.325												1
LMQ	0.61	28.0	SG	11:47:21.825												1
LMQ	0.61	28.0	Trac	11:47:25.6								31.1	0.10		MN 2.4	1
A16	0.69	47.5	PG	11:47:14.95												1
A16	0.69	47.5	SG	11:47:24.64												1
A16	0.69	47.5	Trac	11:47:24.93								19.0	0.06		MN 2.5	1
A61	0.82	33.1	PG	11:47:16.9												1
A61	0.82	33.1	SG	11:47:28.1												1
A61	0.82	33.1	Trac	11:47:33.55								6.8	0.04		MN 2.4	1
A21	1.00	45.7	PG	11:47:20.19												1
A21	1.00	45.7	SG	11:47:34.04												1
A21	1.00	45.7	Trac	11:47:36.46								10.9	0.08		MN 2.4	1

Natural Resources, Canada

EarthquakesCanada main index - Canada - Mozilla Firefox

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http://earthquakescanada.nrcan.gc.ca

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Earthquakes Canada

Earth Sciences Sector > Priorities > Canadian Hazard Information Service > Earthquakes Canada

Recent News

November 25 marks the 20th anniversary of the 1988 Saguenay, Quebec earthquake. This magnitude 5.9 earthquake was felt to distances of more than 1000 km, caused a few tens of millions of dollars in estimated damage and is one of the largest earthquakes in eastern North America in the past 70 years.

[Information on the 1988 Saguenay, Quebec earthquake](#)

[Did You Feel It?](#) Please tell us by filling out our earthquake questionnaire

Recent Earthquake Reports

- [2008-11-17: M=5.9 - 249 km W of Isachsen. NU](#)
- [2008-11-15: M=4.2 - 18 km WSW of Riviere-du-Loup. QC - felt](#)
- [2008-11-02: M=3.6 - 58 km NW of Beapre. QC - felt](#)
- [2008-10-29: M=2.5 - 17 km WNW of Merritt. BC - felt](#)
- [2008-10-10: M=2.8 - 9 km SE of Trois-Rivieres. QC - felt](#)

[View other reports...](#)

main index - Canada - Mozilla Firefox

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http://earthquakescanada.nrcan.gc.ca

click within the boxes for regional information

2008/10/26 - 2008/11/25

Recent earthquakes (most recent is shown in yellow)

- M < 2.0
- M ≥ 2.0
- M ≥ 3.0
- M ≥ 4.0
- ★ M ≥ 5.0
- ★ M ≥ 6.0

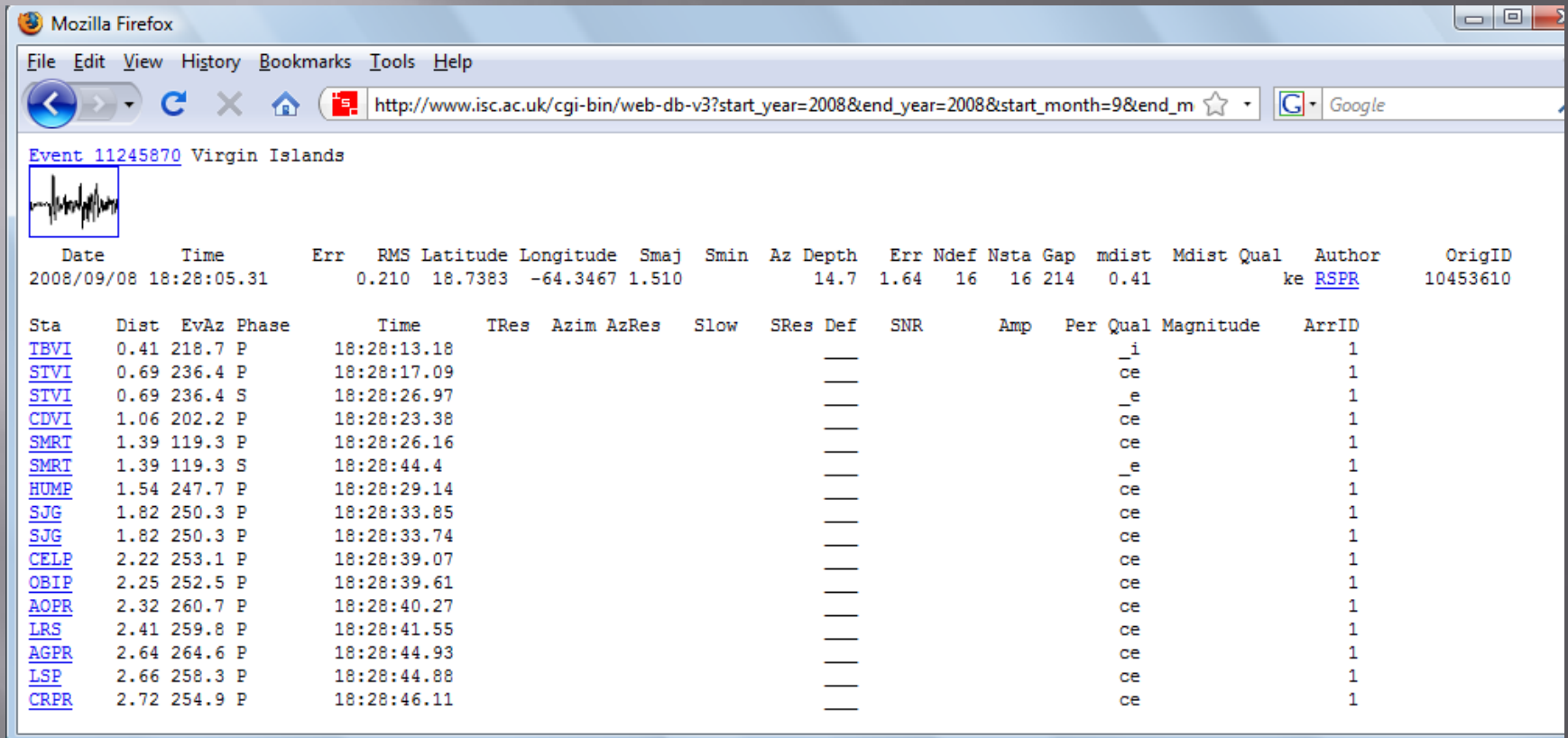
[List plotted points](#) [Larger image](#)

Canada

In Canada...

- The map and list of recent earthquakes

Virgin Islands, 08-09-2008



Data reported by Puerto Rico Seismic Network

Message from the ISC:

1. The International Seismological Centre (ISC) is attempting to run a comprehensive **up-to-date** summary (1960-present) of **global** seismicity with bulletin data available to users soon after these data are made available to the ISC.
2. The ISC invites seismic networks and regional data centres to contribute **reviewed fast event solutions or provisional bulletin data** prior to normal delivery of final reviewed bulletin products.

Acknowledgements



The ISC is grateful to

- **56 Member-institutions** contributing funds &
- **120 Agencies** providing seismic bulletin data towards compilation of the ISC Bulletin – the definitive summary of global seismicity.