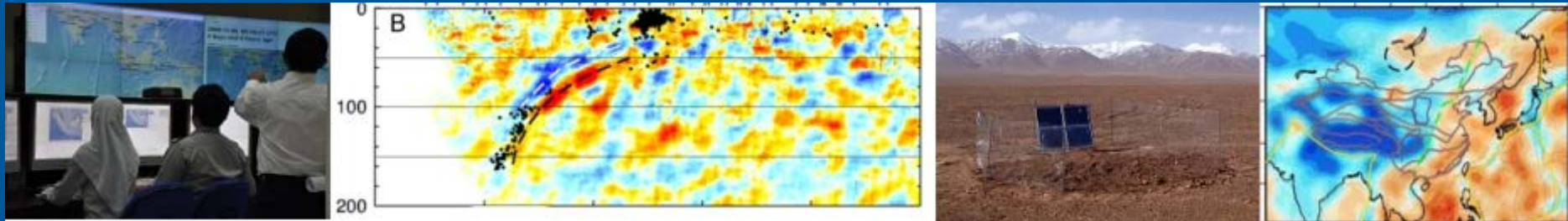


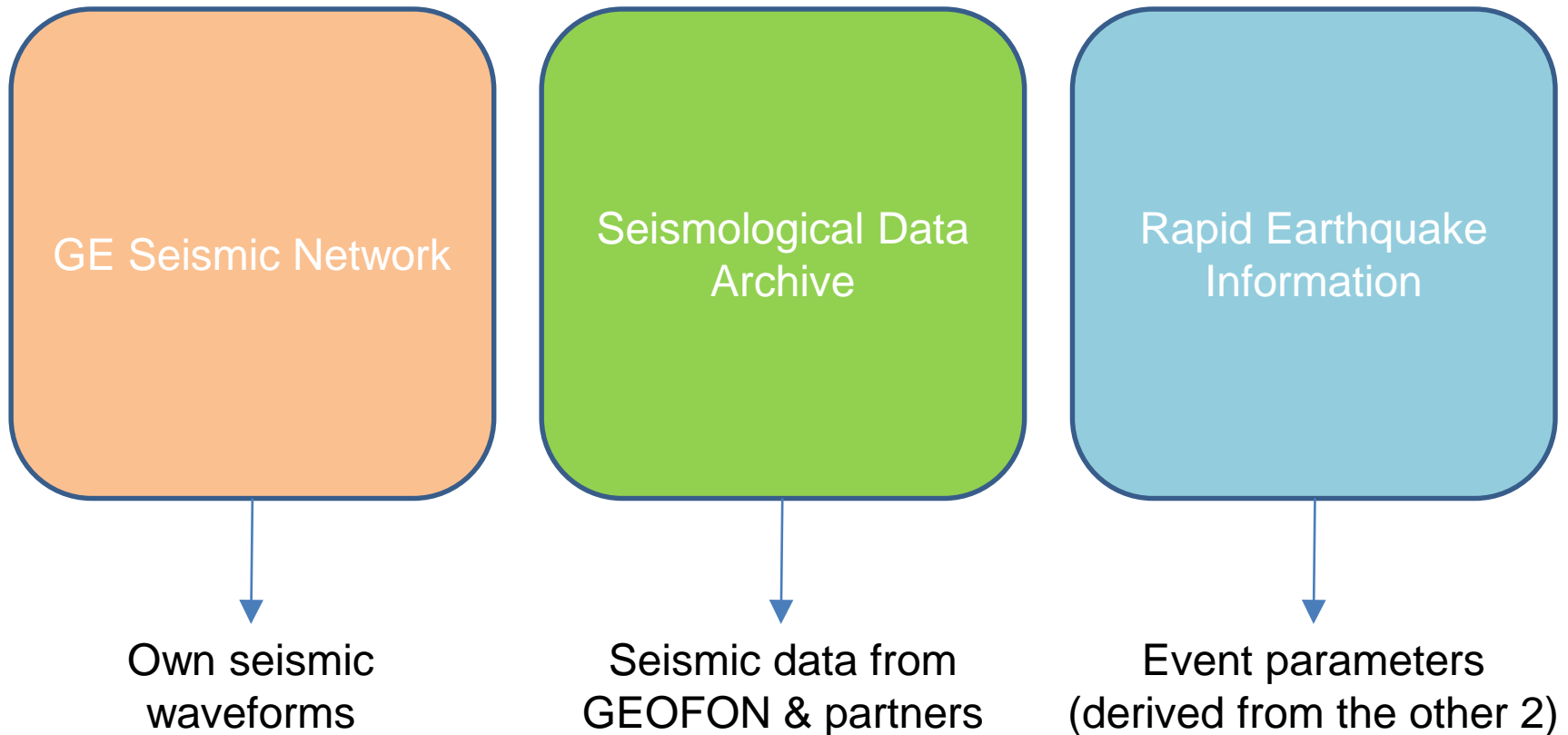
# Selecting an appropriate License for Open Data

## The GEOFON Experience



Javier Quinteros and the GEOFON team

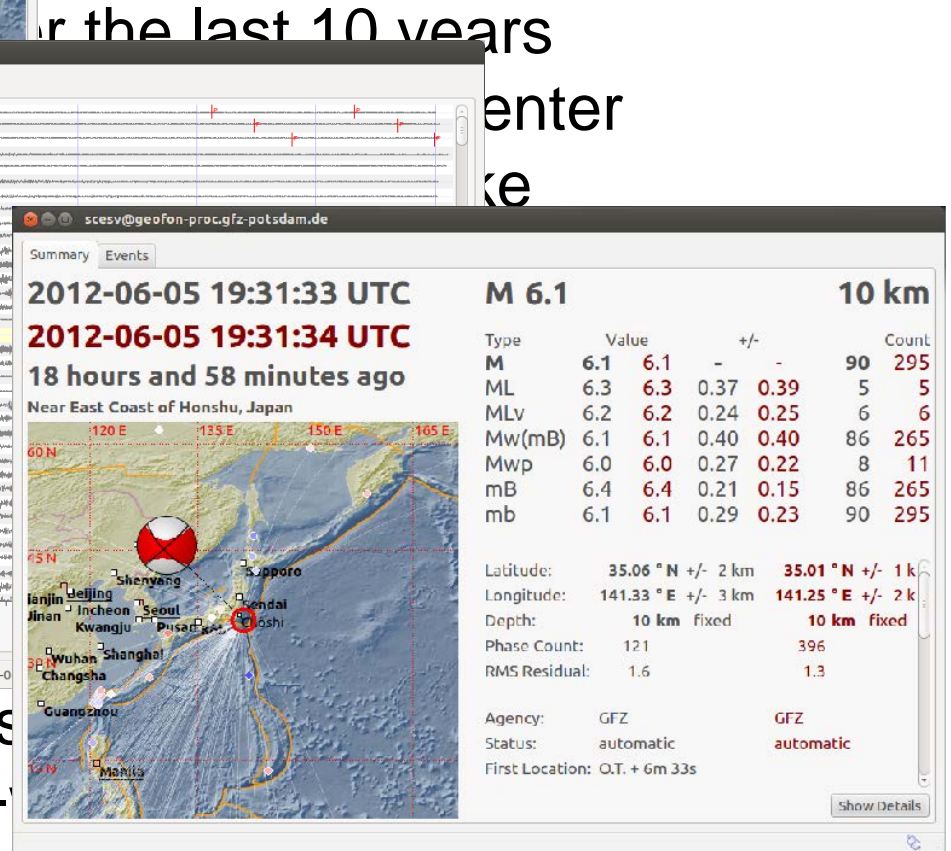
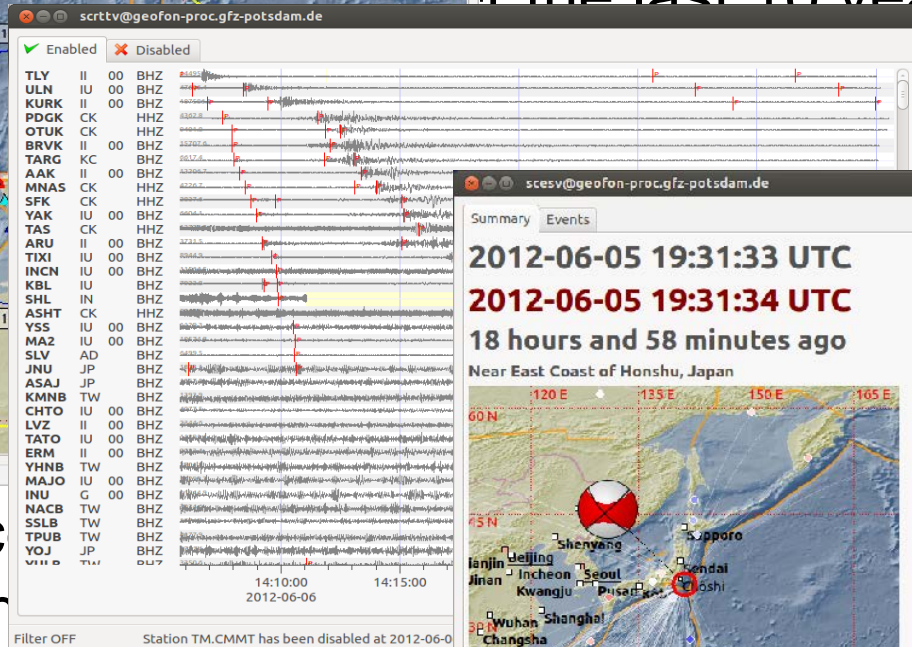
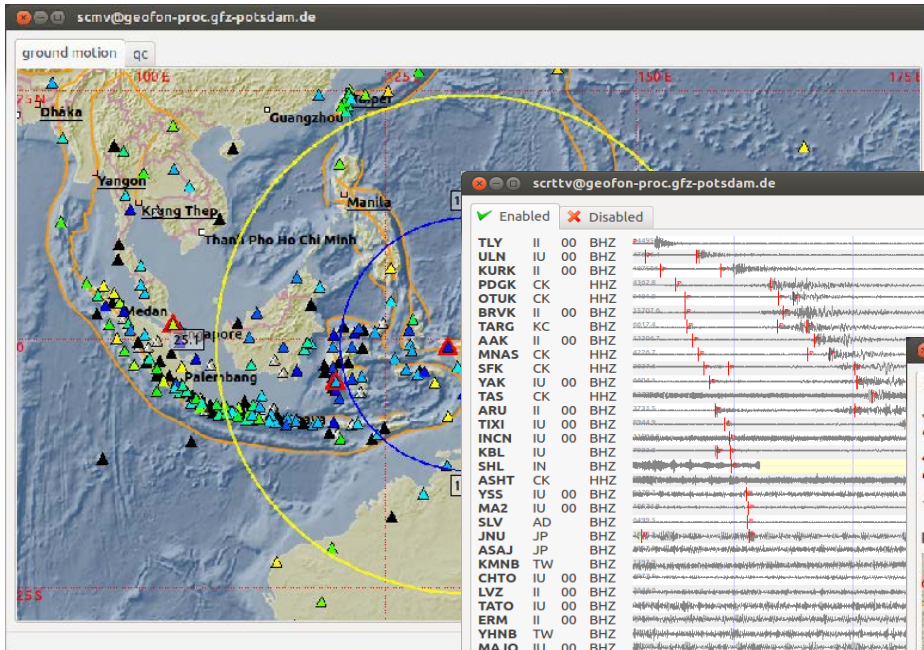
# Internal organization and data produced



# Data or Services?

- Archival of our own data as well as from partners.
- Fastest provider of event parametric data (created by us and derived from data from different sources).
- The automatic processes to generate these data (event parametric data) comes from in-house software SeisComP3 (open software).
- But... GEOFON has also the mandate of providing all these data by means of standard services.
- In summary, we offer:
  - Open data (own and from partners),
  - Open software,
  - Open services.

# In-house software development (SeisComP3)



For the last 10 years  
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ke

warning c

- More than
- Its real-time data transmis
- became a de facto world-

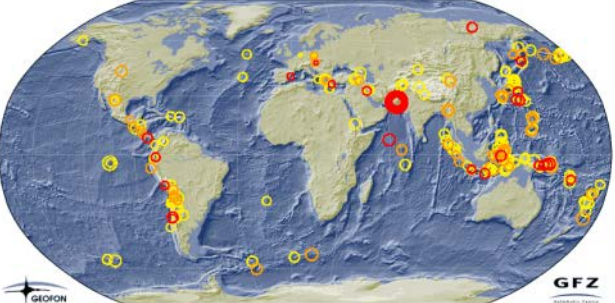
# Rapid Earthquake Information

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**GEOFON**  
GEOFON Program

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## Automatic GEOFON Global Seismic Monitor



The events displayed occurred within the last **24 hours / 1.4 days / 4.18 days**.

**Most recent large event:**  
**Pakistan**  
Magnitude: **7.6 (Mw)**  
Origin time: **2013-09-24 11:29:53 UTC**  
Epicenter: **65.47°E 27.03°N**  
Depth: **42 km**  
Location status: **manually revised**

See also:

- The specific page for this event
- The complete list of automatic GEOFON alerts

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Mission | Earthquake Info | Waveform Access | Software | Contact | Home

This real time bulletin is a product of the GEOFON Extended Virtual Network (GEVN) and credit belongs to all involved institutions!

**Disclaimer: Unless revised by a geophysicist, automatically determined earthquake locations may be erroneous!**

This bulletin is customizable and also available as **RSS** news feed.

New search FAQ

Older events

Origin Time UTC	Mag	Latitude degrees	Longitude degrees	Depth km	A	Finn-Engdahl Region Name
2013-09-24 17:20:15	5.4	27.24°N	65.53°E	10	A	Pakistan
2013-09-24 15:39:29	4.9	67.82°N	142.88°E	10	M	Eastern Siberia, Russia
2013-09-24 15:12:22	4.8	27.24°N	65.48°E	10	M	Pakistan
2013-09-24 14:26:42	5.0	32.81°S	71.66°W	37	M	Near Coast of Central Chile
2013-09-24 14:08:34	5.3	27.63°N	65.62°E	10	A	Pakistan
2013-09-24 14:07:41	4.7	27.85°N	140.52°E	78	M	Bonin Islands, Japan Region
2013-09-24 13:53:13	3.2	47.64°N	17.23°E	10	M	Hungary
2013-09-24 13:44:16	4.7	32.49°N	141.21°E	32	M	Southeast of Honshu, Japan
2013-09-24 13:01:44	5.6	27.48°N	65.72°E	37	M	Pakistan
2013-09-24 12:42:15	5.2	27.48°N	65.73°E	41	M	Pakistan
2013-09-24 12:07:12	5.0	27.41°N	65.75°E	51	M	Pakistan
2013-09-24 11:39:38	5.8	27.29°N	65.66°E	15	M	Pakistan
2013-09-24 11:29:53	7.6	27.03°N	65.47°E	42	MT	Pakistan
2013-09-24 07:22:54	5.5	7.47°N	59.57°E	10	MT	Carlsberg Ridge
2013-09-24 04:18:23	4.0	38.43°N	26.80°E	114	M	Dodecanese Islands, Greece
2013-09-24 03:41:54	4.9	8.47°N	82.75°W	10	A	Panama-Costa Rica Border Region
2013-09-24 00:21:50	4.0	40.32°N	0.76°E	10	M	Spain
2013-09-23 20:01:17	4.9	5.66°S	150.44°E	79	M	New Britain Region, PNG
2013-09-23 17:28:07	5.4	4.96°S	153.61°E	72	MT	New Ireland Region, PNG
2013-09-23 16:40:29	4.8	28.35°N	138.72°E	505	M	Bonin Islands, Japan Region
2013-09-23 15:12:57	4.8	9.96°S	115.94°E	46	C	MT South of Bali, Indonesia
2013-09-23 14:12:16	4.8	5.40°S	152.43°E	20	M	New Britain Region, PNG
2013-09-23 13:59:00	4.5	5.77°S	147.46°E	108	M	Eastern New Guinea Reg., PNG
2013-09-23 13:41:33	4.4	7.79°S	108.06°E	89	M	Java, Indonesia
2013-09-23 13:02:28	4.5	33.48°S	72.12°W	19	M	Off Coast of Central Chile
2013-09-23 11:22:48	5.1	0.70°S	124.93°E	63	A	Southern Molucca Sea
2013-09-23 07:56:53	4.6	1.57°S	77.82°W	163	M	Equador
2013-09-23 02:54:13	4.3	16.25°S	73.29°W	85	M	Near Coast of Peru
2013-09-23 01:41:36	4.5	32.91°N	48.19°E	10	M	Western Iran
2013-09-22 22:05:37	4.6	48.57°N	154.68°E	58	M	Kuril Islands
2013-09-22 21:06:35	4.6	13.25°S	167.16°E	208	M	Vanuatu Islands
2013-09-22 19:30:37	5.2	12.26°N	143.77°E	27	C	MT South of Mariana Islands
2013-09-22 18:10:29	4.6	6.29°S	130.02°E	173	M	Banda Sea
2013-09-22 15:58:06	4.9	12.28°N	143.86°E	24	M	South of Mariana Islands
2013-09-22 15:32:32	4.5	3.59°S	125.90°E	10	M	Buru, Indonesia
2013-09-22 15:25:16	4.7	3.52°S	125.92°E	21	M	Buru, Indonesia
2013-09-22 14:45:53	4.3	10.77°N	86.08°W	46	M	Off Coast of Costa Rica
2013-09-22 10:38:36	4.2	0.27°S	98.48°E	5	M	Southern Sumatra, Indonesia
2013-09-22 08:41:35	4.8	7.17°S	80.67°W	23	M	Off Coast of Northern Peru
2013-09-22 06:09:32	4.8	5.13°N	94.09°E	15	M	Northern Sumatra, Indonesia

Older events

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<http://geofon.gfz-potsdam.de/eqinfo/seismon/globmon.php>  
<http://geofon.gfz-potsdam.de/eqinfo/list.php>

# Which License for which product?

- We are part of the EPOS project, in which there is a strong push to apply the CC-BY 4.0 License.
- Liability issues seem to be solved with this.
  
- But is this the best choice for us?
- And what about Open Data Commons?
- Are there any other options?

# Doubts, a lot of doubts...

- How do I know whether a particular use of a database is restricted by sui generis database rights?
  - When a database is subject to sui generis database rights, extracting and reusing a substantial portion of the database contents is prohibited absent some express exception.
- Sui generis DB rights exist in only a few countries outside the European Union, such as Korea and Mexico. If you are using a CC-licensed DB in a location where those rights do not exist, you do not have to comply with license restrictions or conditions unless copyright (or some other licensed right) is implicated.

# Doubts, a lot of doubts...

- If my use of a database is restricted by sui generis database rights, how do I comply with the license?
  - If the database is released under the current version (4.0) of CC licenses, you must attribute the licensor if you share a substantial portion of the database contents. The other requirements depend on the particular license applied to the database. Under the NC licenses, [...]. The ND licenses prohibit [...]. The SA licenses require you [...].



# Doubts, a lot of doubts...

- Most of our practices are based on implicit agreements. Some common principles which we share in the scientific community (e.g. citation).
- What happen to us in the case that someone uses our software and data to establish a GEOFON v2?
  - We cannot keep track of the data usage.
  - Can we be sure about the attribution?
  - Could we loose our position of being a reference in the community? (the most unjustified and basic fear)
- And what if this someone is a big company outside from the academia? (e.g. Google?)

**Thanks for your attention  
and for the feedback! (in advance)**