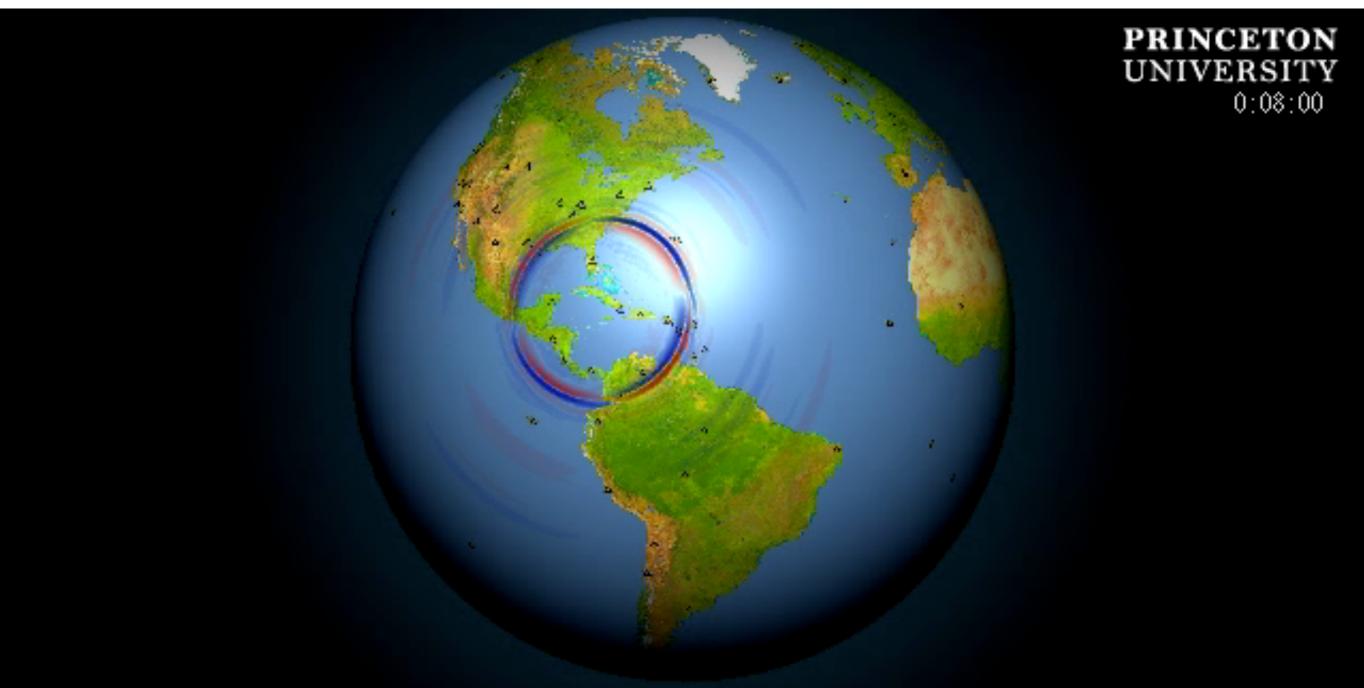
Seismic sources



CUBA REGION Tue Jan 28 2020 19:10:53 utc

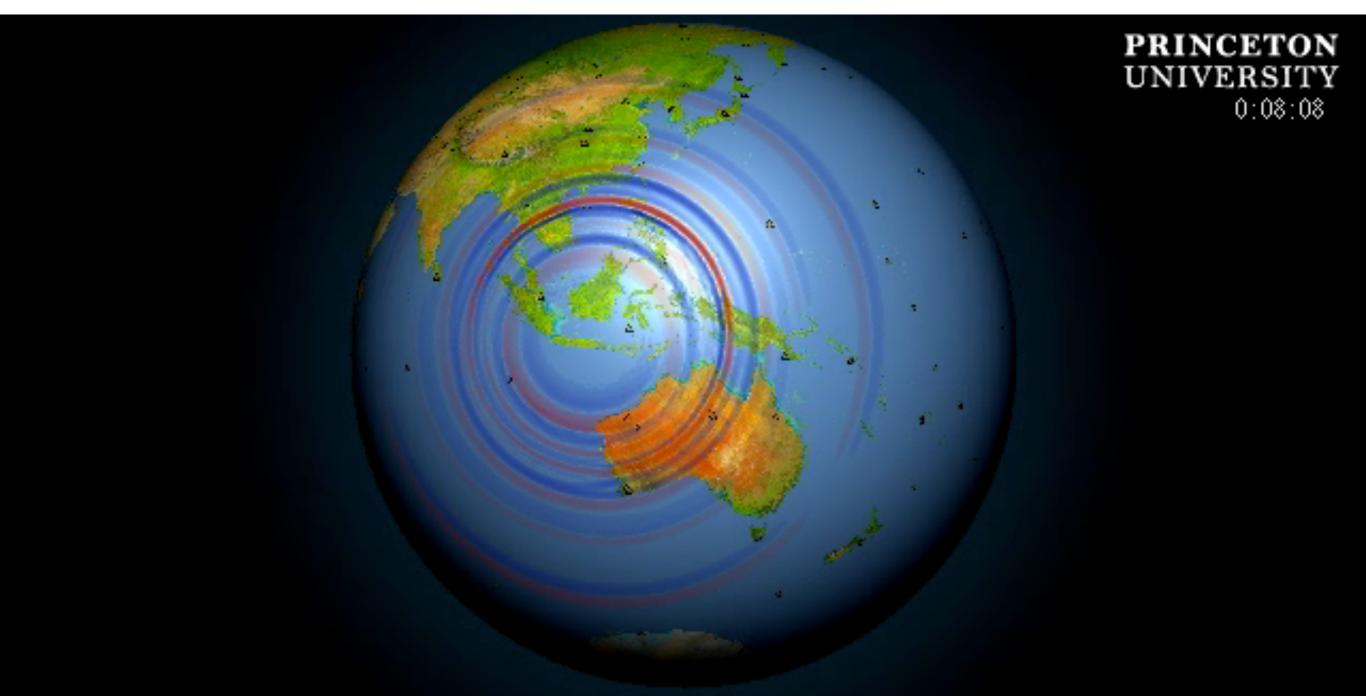
Mw:7.7 Depth: **24.5** km





JAVA, INDONESIA Wed Feb 05 2020 18:12:37 utc

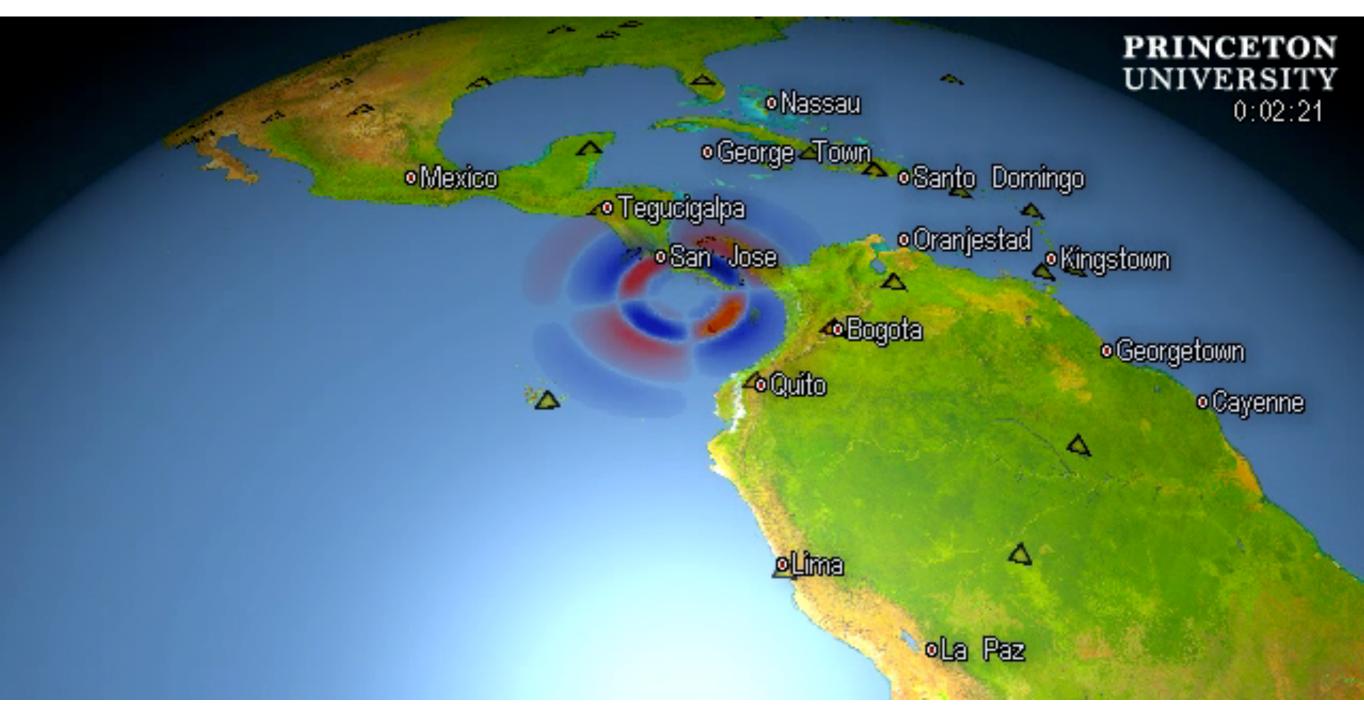
Mw:6.2 Depth: 600.6 km





SOUTH OF PANAMA Mon Mar 09 2015 02:48:50

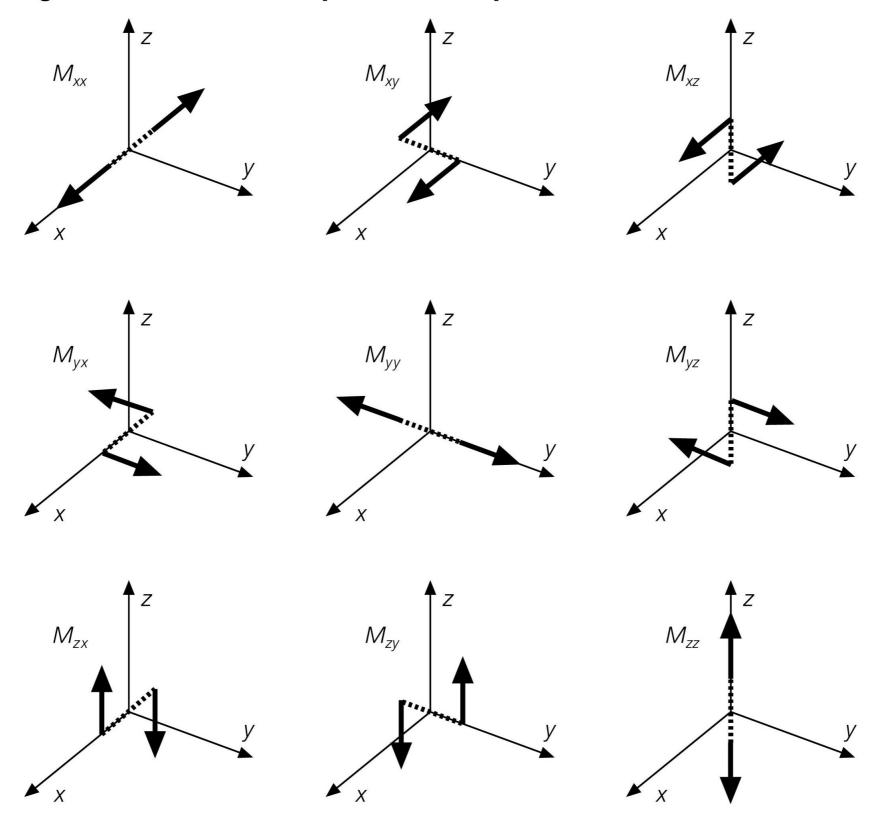
Mw:5.8 Depth: 12.0 km



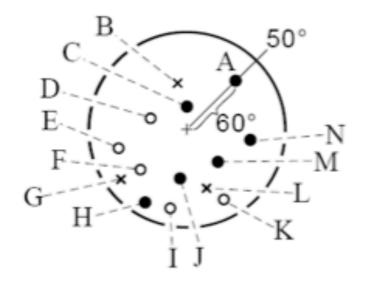
red: up motion, blue: down motion

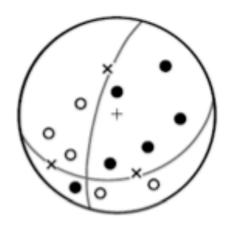


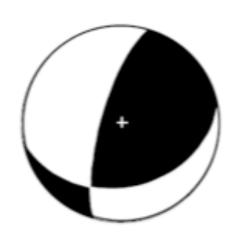
Figure 4.4-4: Nine force couples which compose the seismic moment tensor.



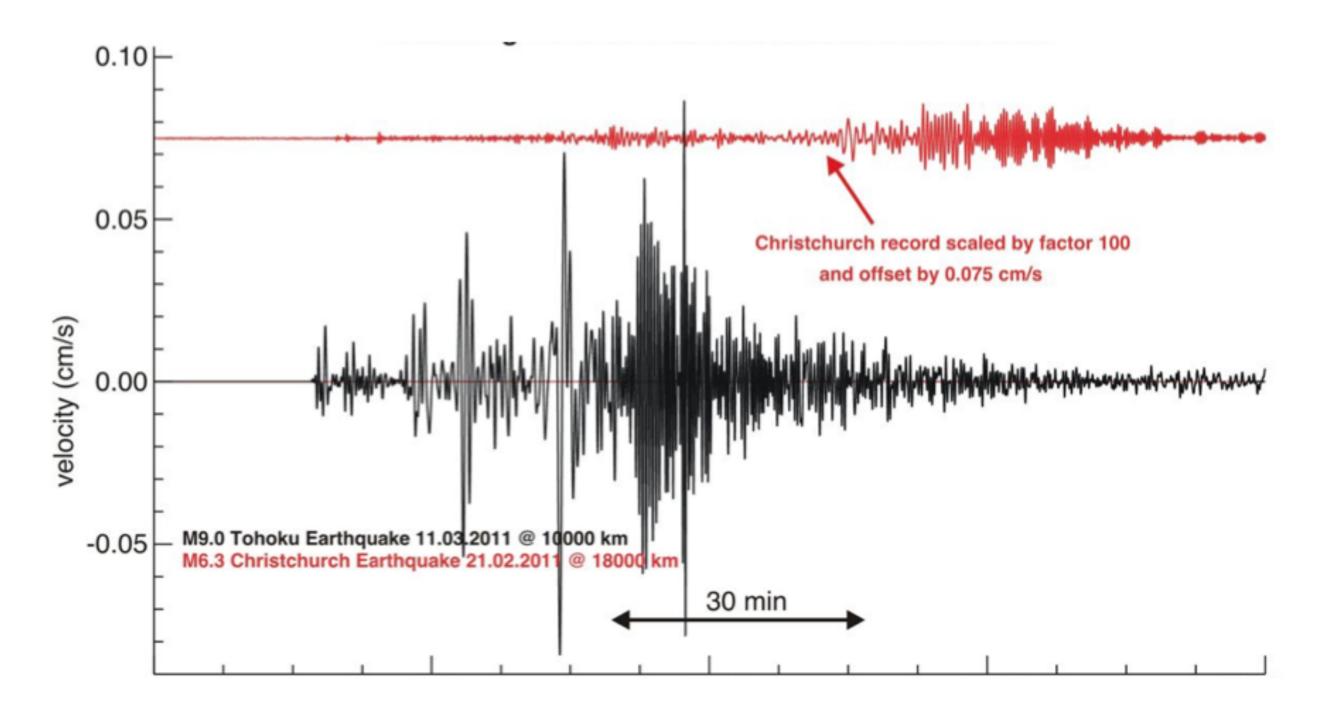
Stn P wave	symbol	Stn Pwave	symbol	Stn Pwave	symbol
A//	•	F	0	K√/√	0
В	×	G~	×	L	×
C	•	H//\	•	M//	•
D\/\	0	I//	0	N//	•
E//	0	1//	•		





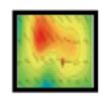


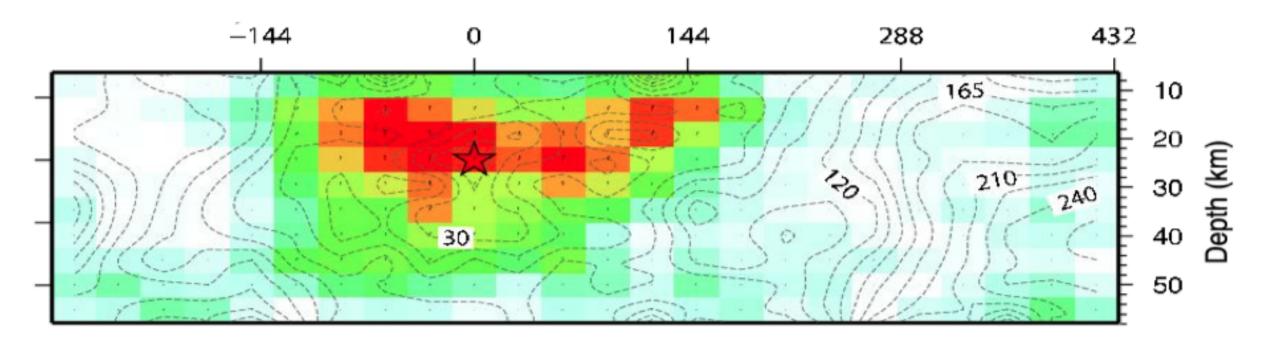
- Plot all stations with their first motion symbols into the projection.
- Separate symbols with large circles on the hemisphere.
- Define the focal mechanism.



A M9 event releases much more energy - 20 '000 more - than a M6.3 event. This depends on the size of the fault and the amount of slip.

Christchurch: M6.3, slip 1m, source area 30*10km





Tohoku: M9, slip up to 18m, source area 300*40km

