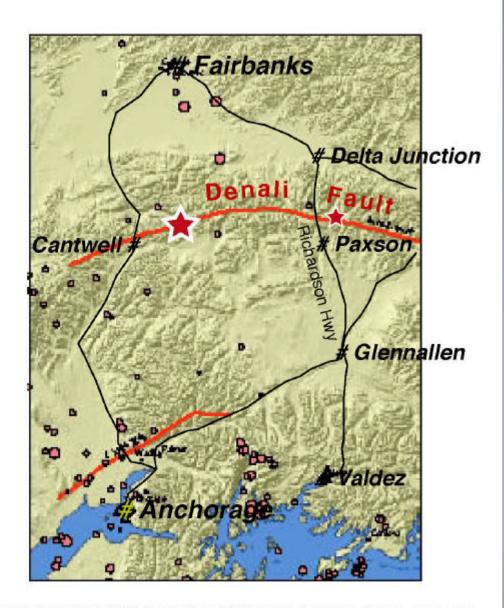


## Preliminary report on the Great Alaskan Earthquake of November 3, 2002

## **Event Summary**

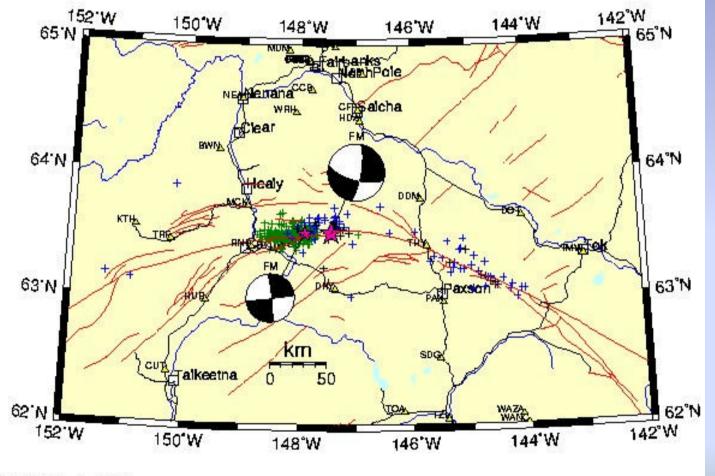
- Moment Magnitude 7.9
- Strike slip rupture of the Denali and Totschunda faults
- Rutpure length ~ 240 km (or more)
- Rupture in very remote region of Alaska
- Some damage to Alaskan pipeline
- M 6.7 foreshock on October 23, 2002
- Penultimate event several centuries ago
- Far-field triggering of earthquakes





Location of 11/3/02 M7.9 Denali Fault earthquake (large star) and M5.1 aftershock (smaller star to east). Pink symbols show epicenters of recent crustal earthquakes.

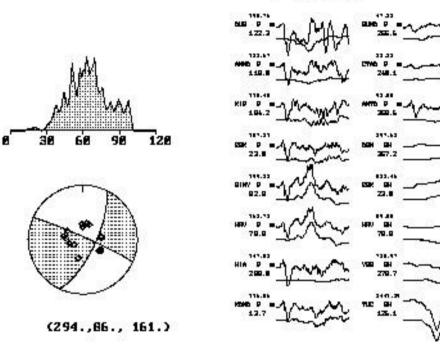
## Aftershocks of M7.9 Denali Fault event



GMT 2002 Nov 4 09 29 39

## No = 7.8e+28 Nn Nu = 7.9

H = 15. km T = 70 s var. = 0.3642



Tibb.34

**1**.41

13.7

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274.8

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25.6

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248.1

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33.5

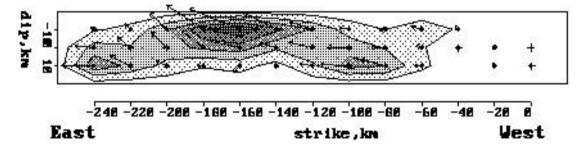
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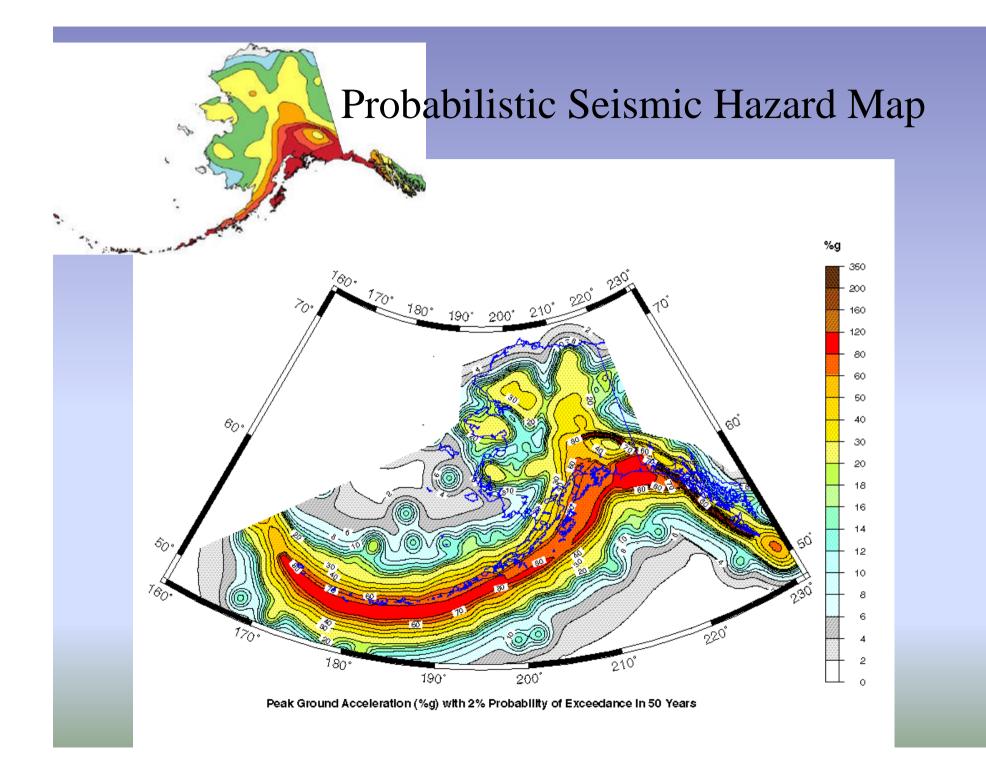
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KID BH 194.2



Main Fault



Long-range triggering of earthquakes observed in geothermal and volcanic area of the western U.S.

