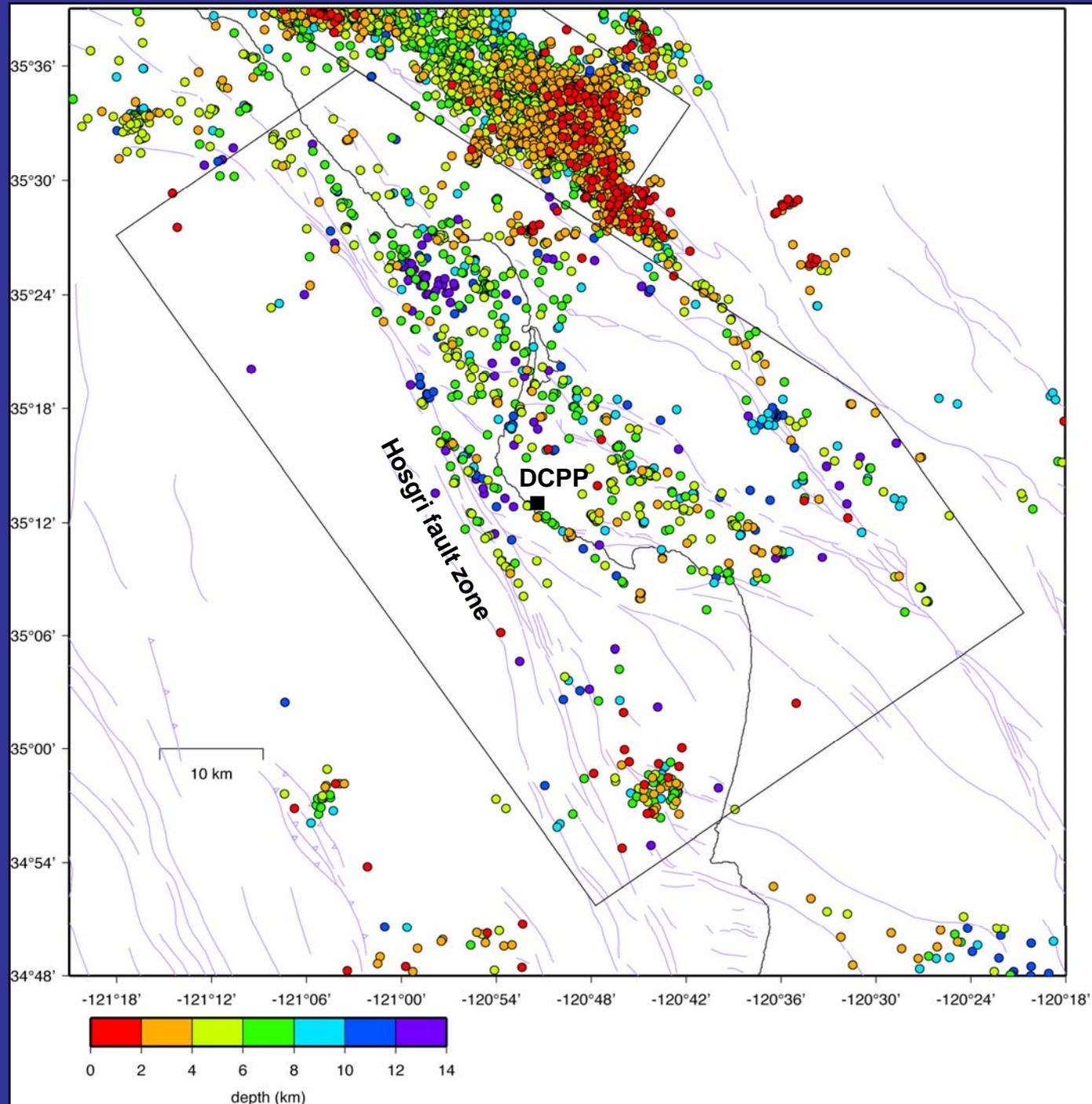
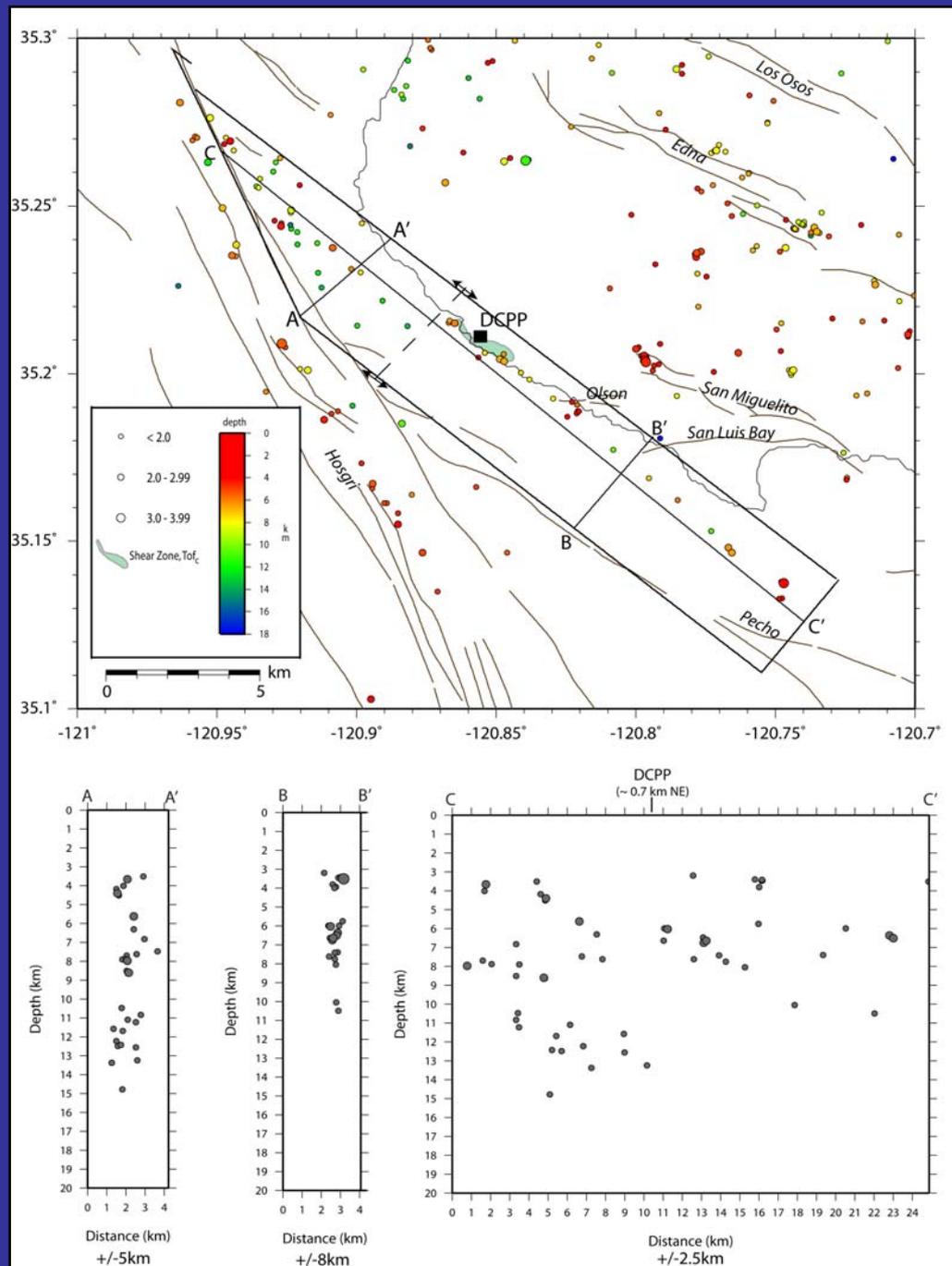
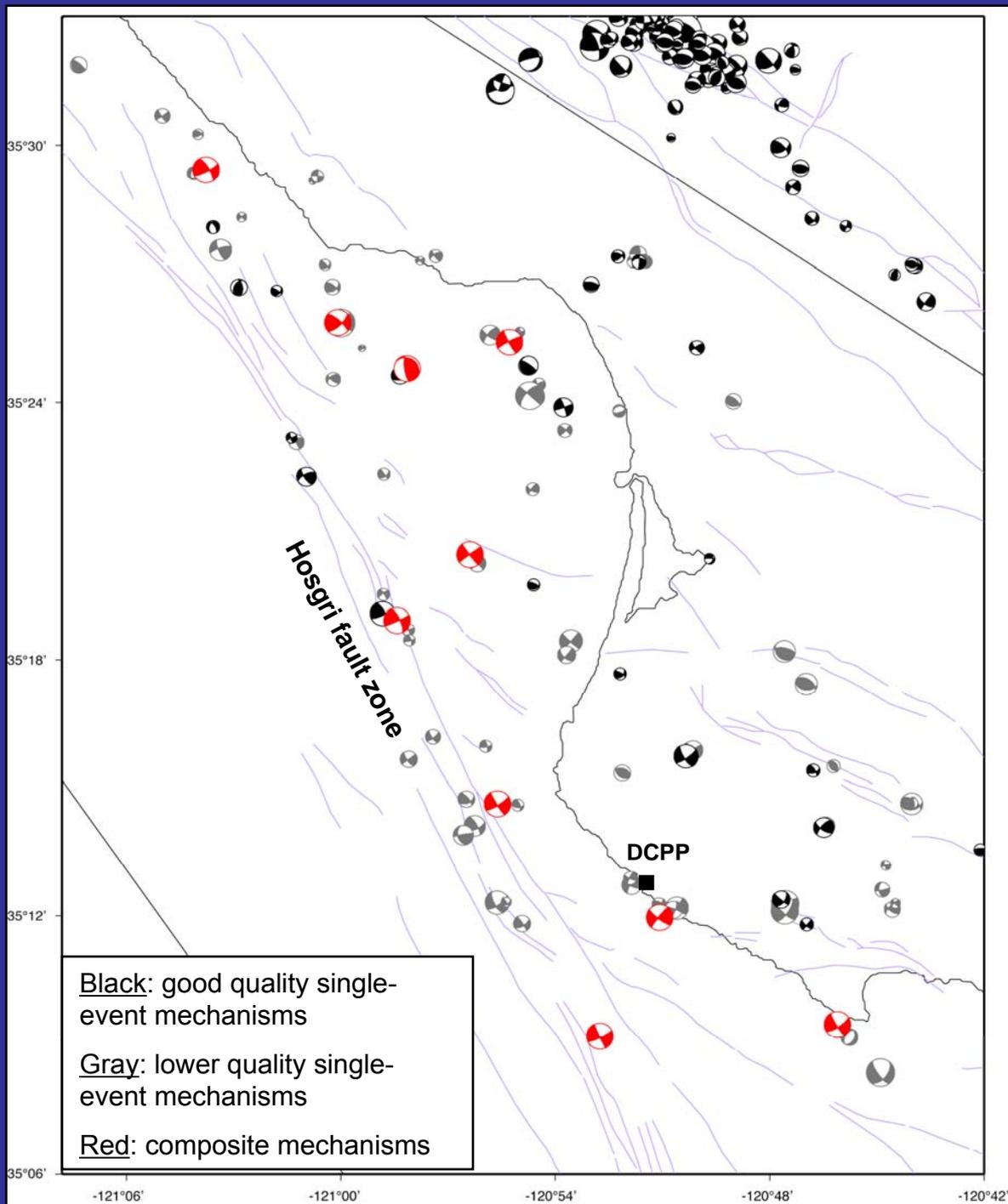


**Seismicity
October 1987
to
March 2007**



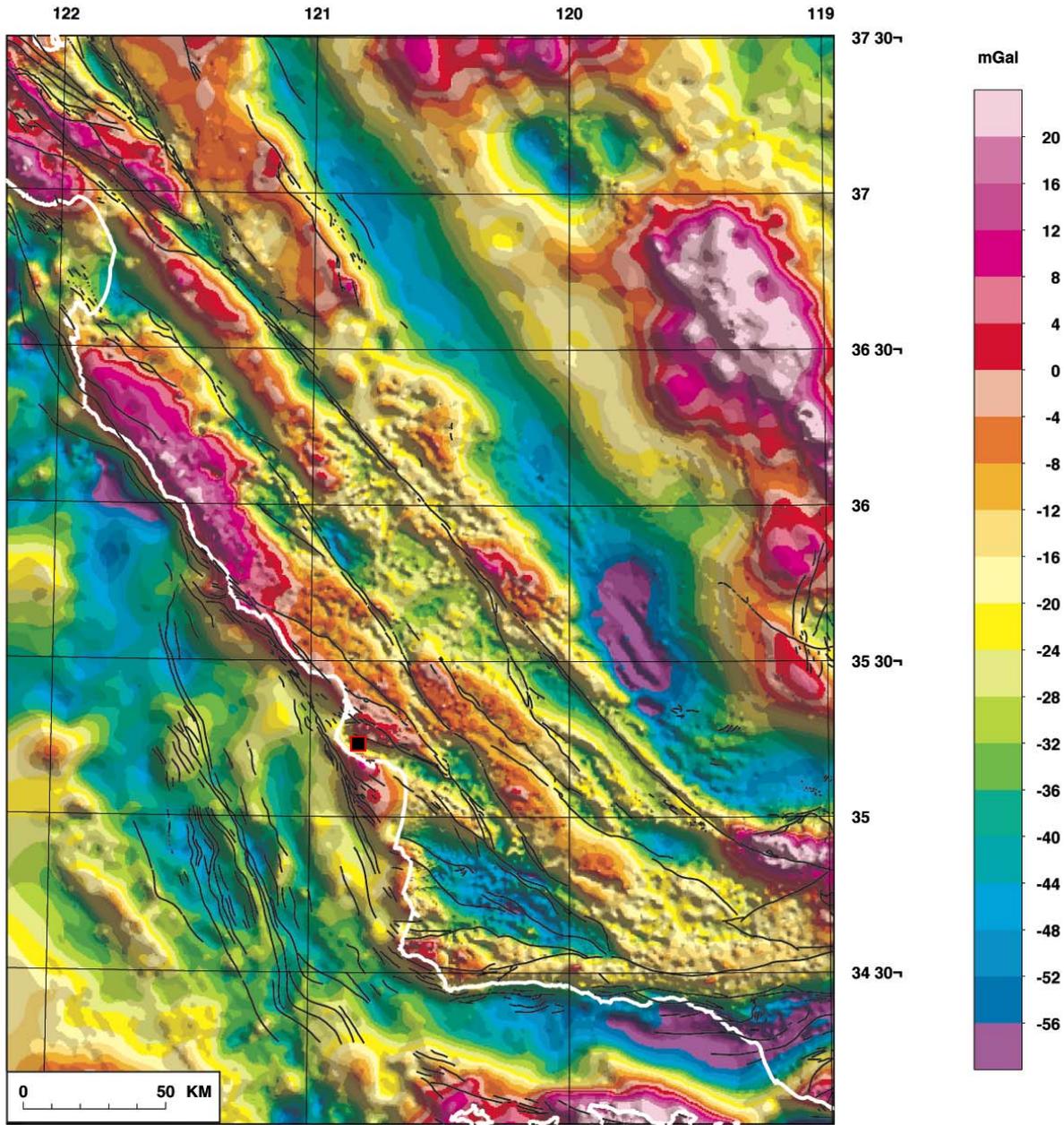
Seismicity
cross sections
October 1987
to
March 2007





Focal mechanisms
show predominantly
strike-slip motion
in the offshore region

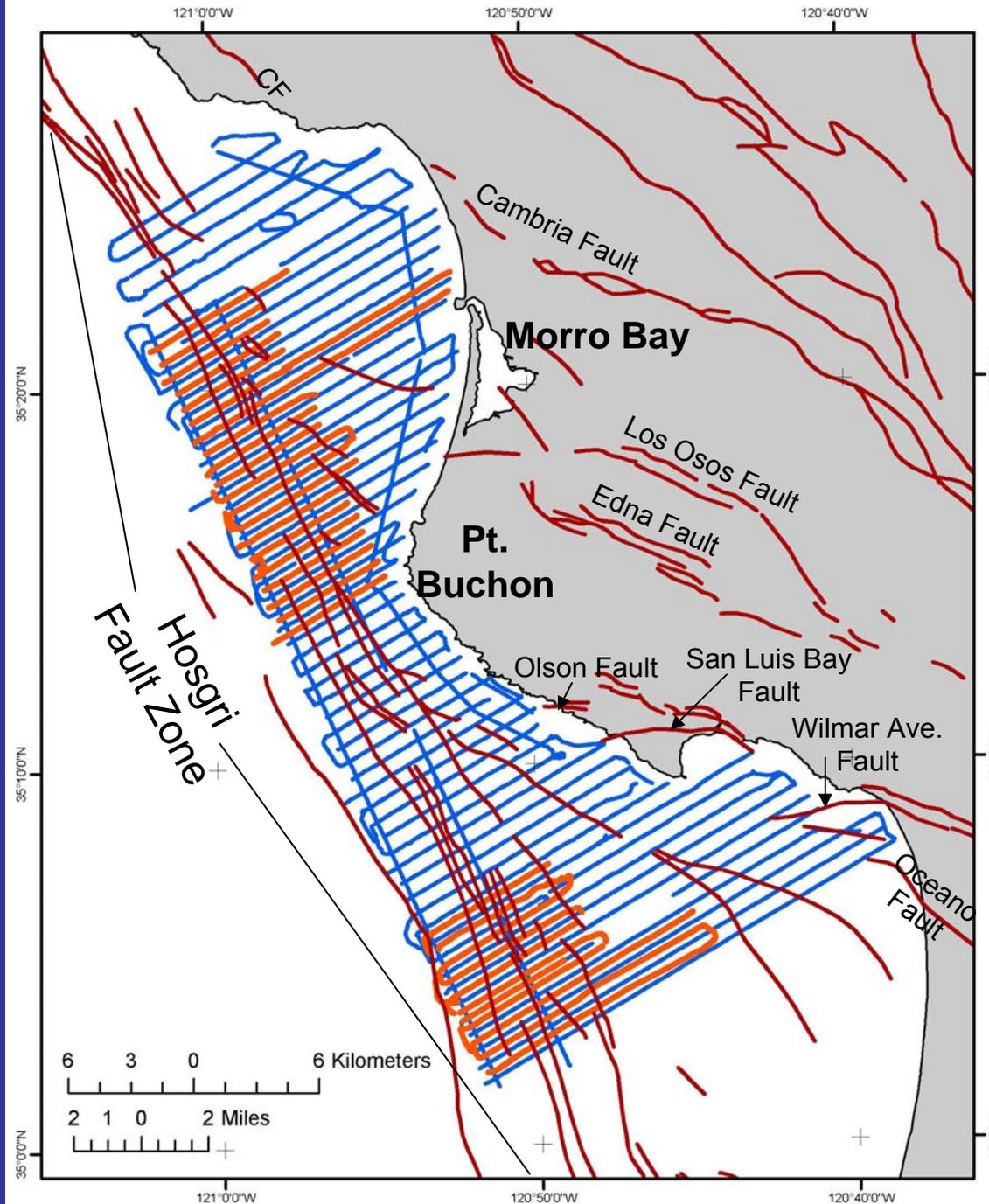
σ_1 N 15 E

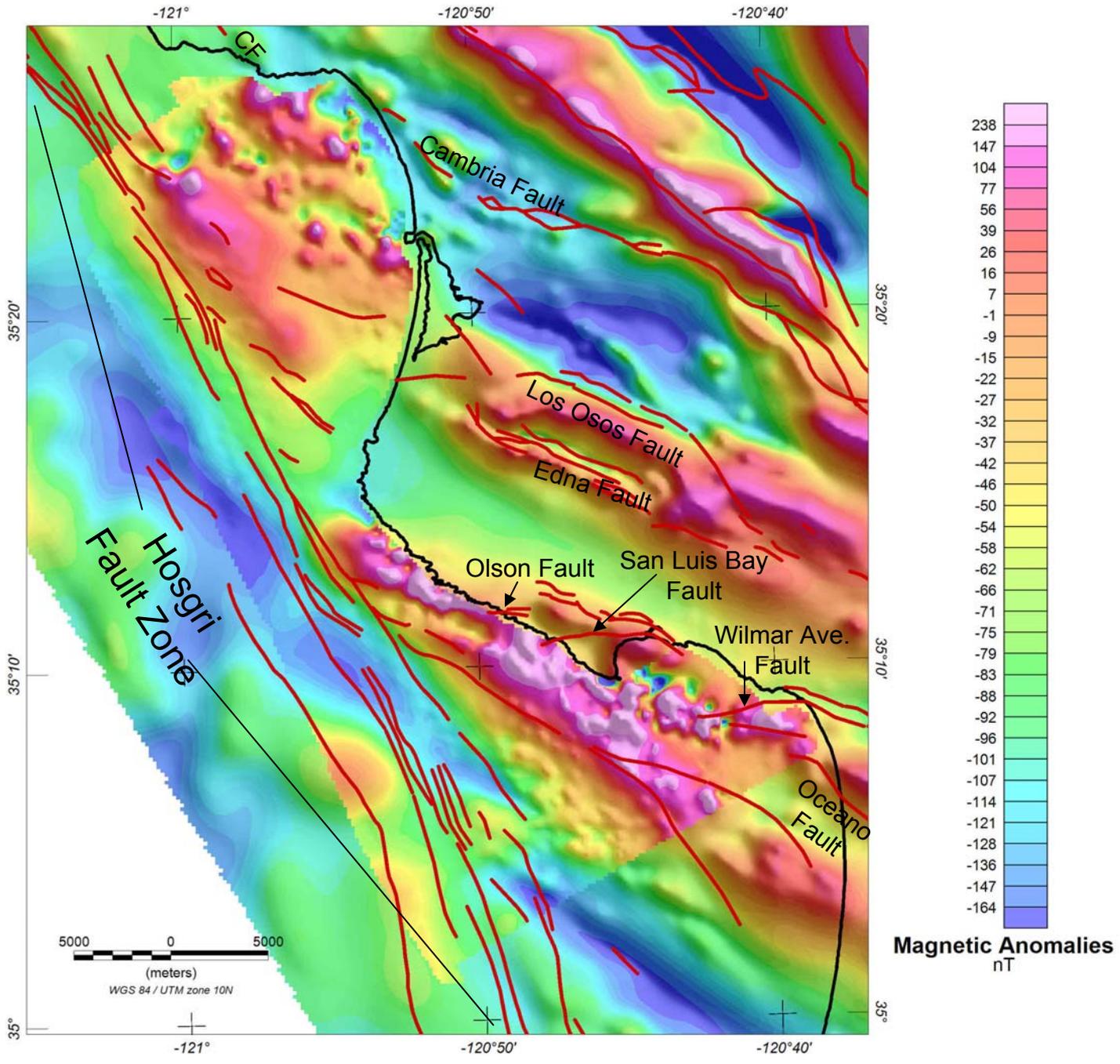


Reprocessed
gravity data
for the region

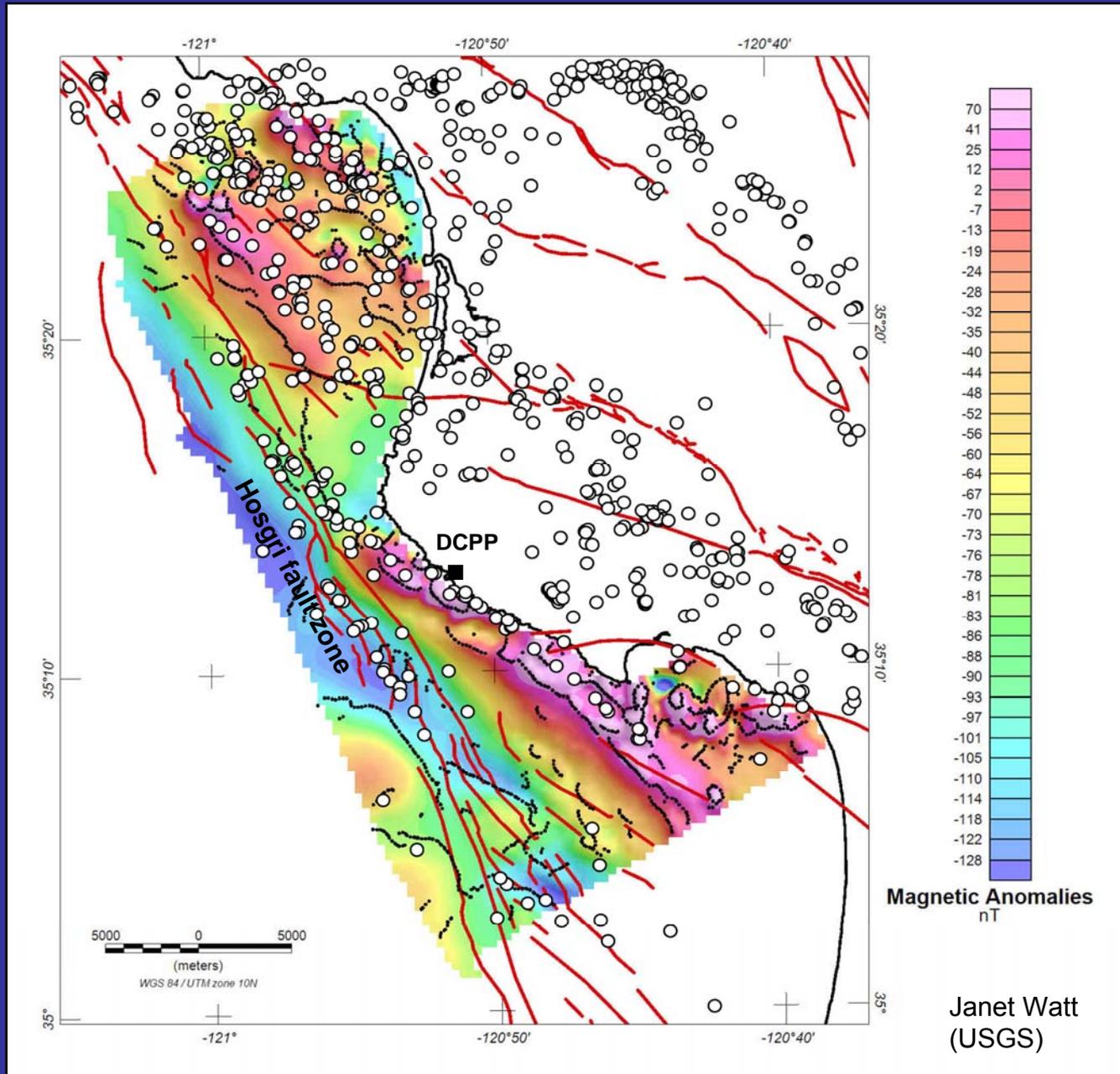
Marine Data Collection

- June 2008
- 35 ft R/V Parke Snively
- Survey area = 900 km²
- Line Spacing (800/400 m)
- Rock samples





Comparison of Earthquake Locations with Marine Magnetic Data

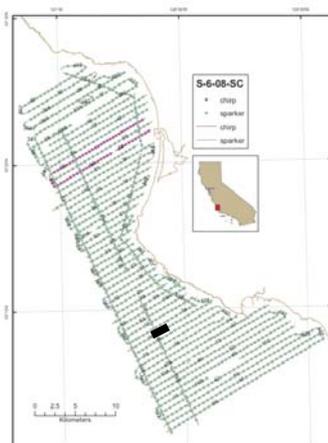
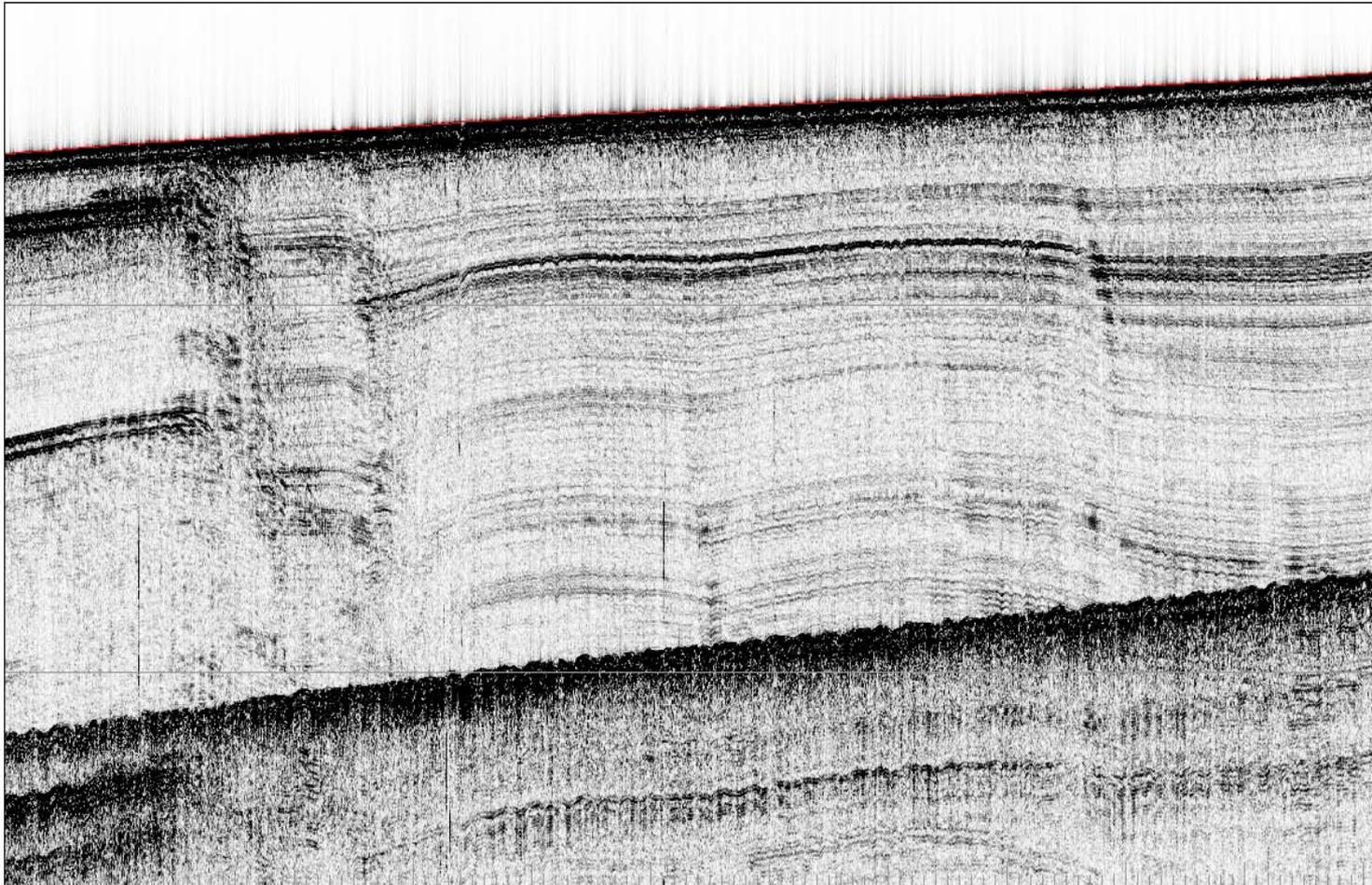




Lat N 35° 08' 25.14"
Long W 120° 52' 10.85"
Hdg 59.60° CMG
Source

Shot 3610
Date 06.15.2008
Time 17:09:50
KP 0000.000

~ 20 m | 200 m v.e ~ 3



28-Aug-2008: loggedFromvslr60816.mxd

Processing controls including a 'Negative' checkbox, radio buttons for AGC, TVG, Topo, Bottom, Swell, and Stack, and a vertical waveform display with a 358.3 ms scale and ±0.9 V amplitude.



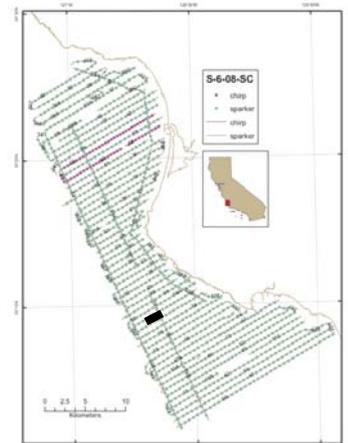
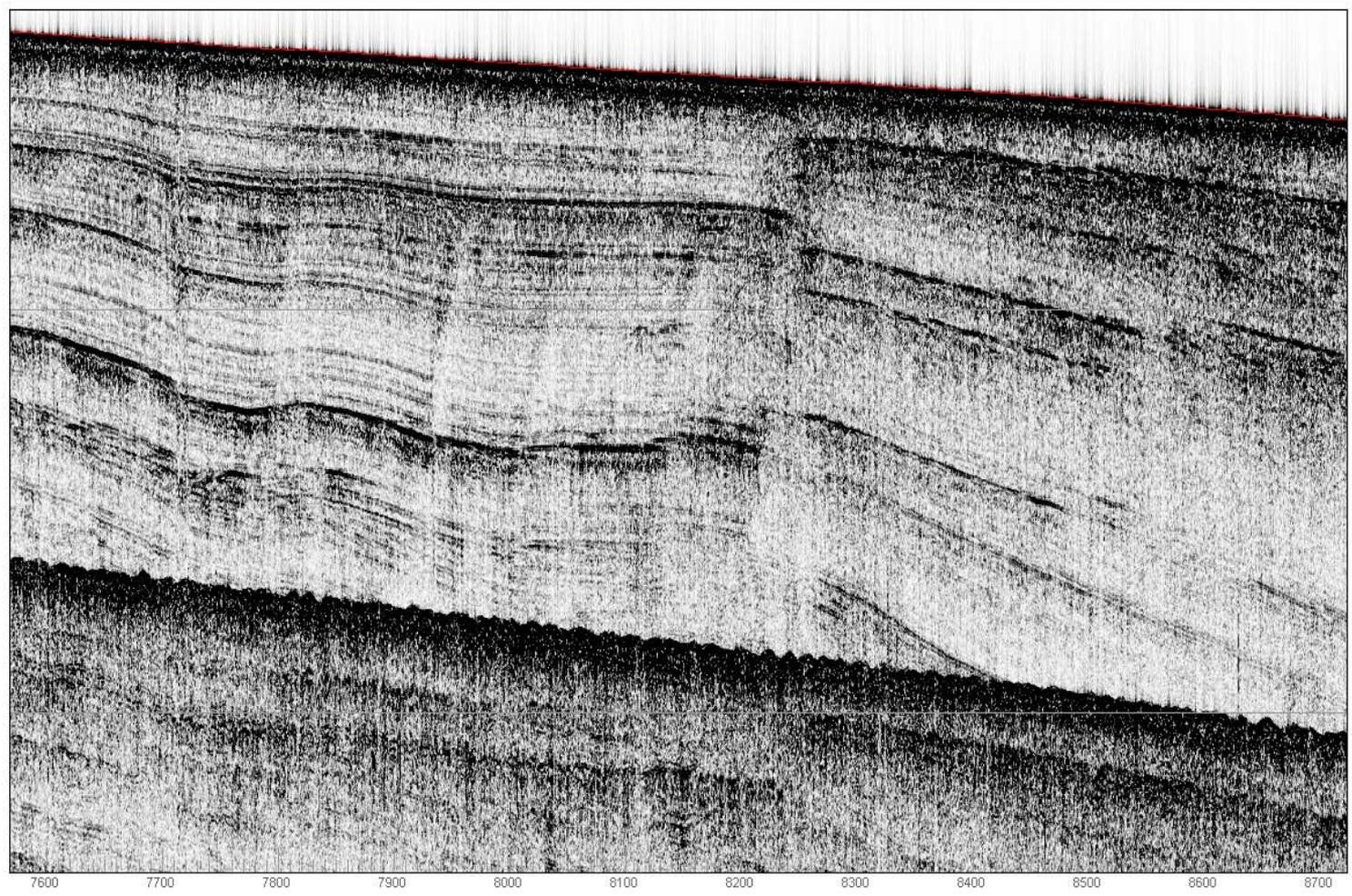
1.48 kHz



Lat N 35° 08' 49.10"
Long W 120° 53' 27.54"
Hdg 248.20° CMG
Source

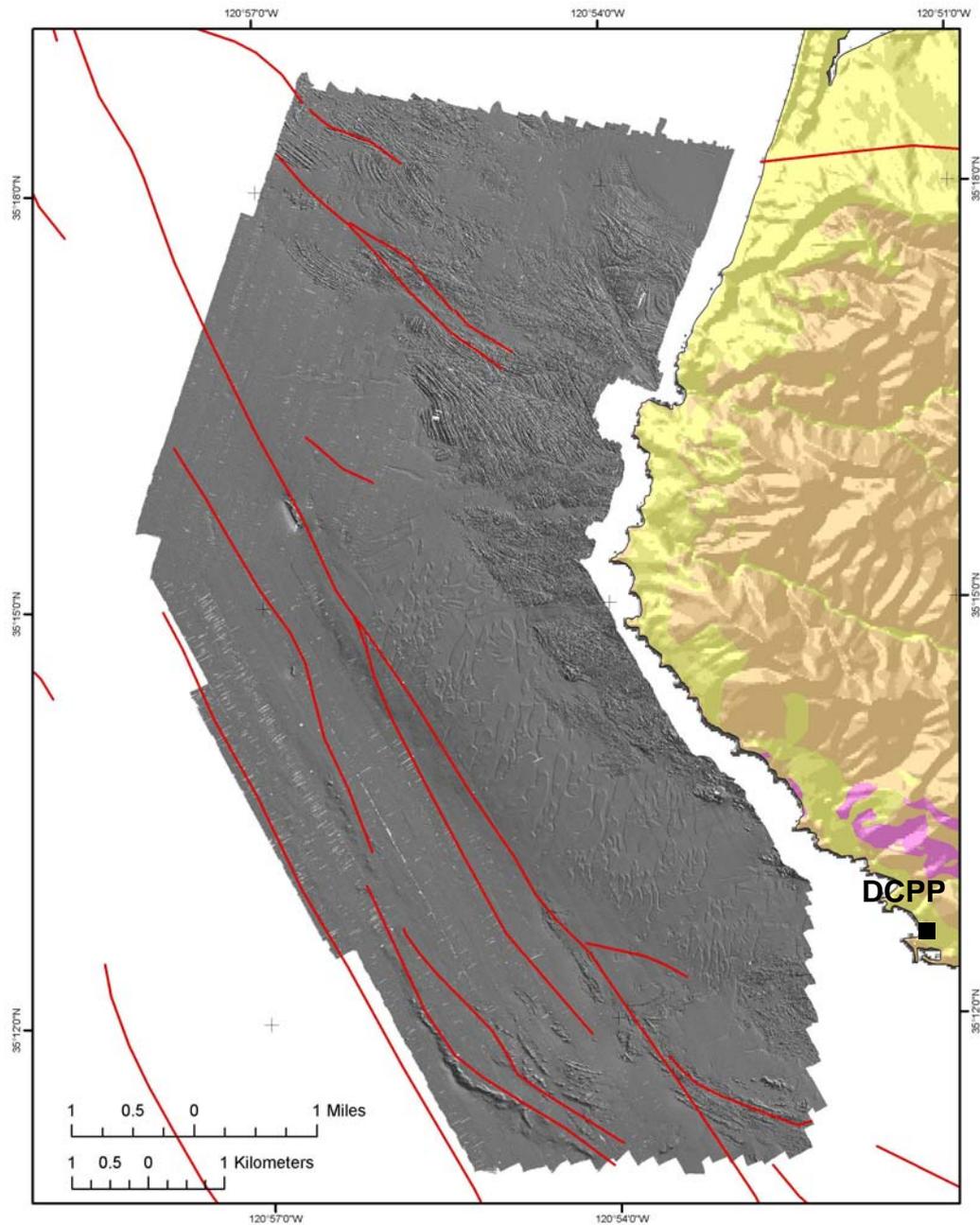
~ 20 m
200 m
v.e ~ 3

Shot 8722
Date 06.15.2008
Time 19:16:39
KP 0000.000



28-Aug-2008, 1:49:05ms\site\tr5b08sc.mxd

Control panel for the seismic data plot, including:
- Pos/neg: Positive, Negative
- Processing: AGC, TVG, Topo, Bottom, Swell, Stack
- Time scale: 200 ms, 300 ms, 339.4 ms
- Voltage scale: +/- 1.0 V



2 m multibeam bathymetry
collected off Point Buchon

Initial Evaluation of Seismic Demands from Assumed Fault

- Magnitude
 - Based on the size of the fault
 - 24 km length (extended to the intersection with Hosgri)
 - 12 km depth
 - $M = 6.5$
- Distance
 - 1 km from DCP (assumed)

Initial Evaluation of Ground Motion (84th Percentile Deterministic)

