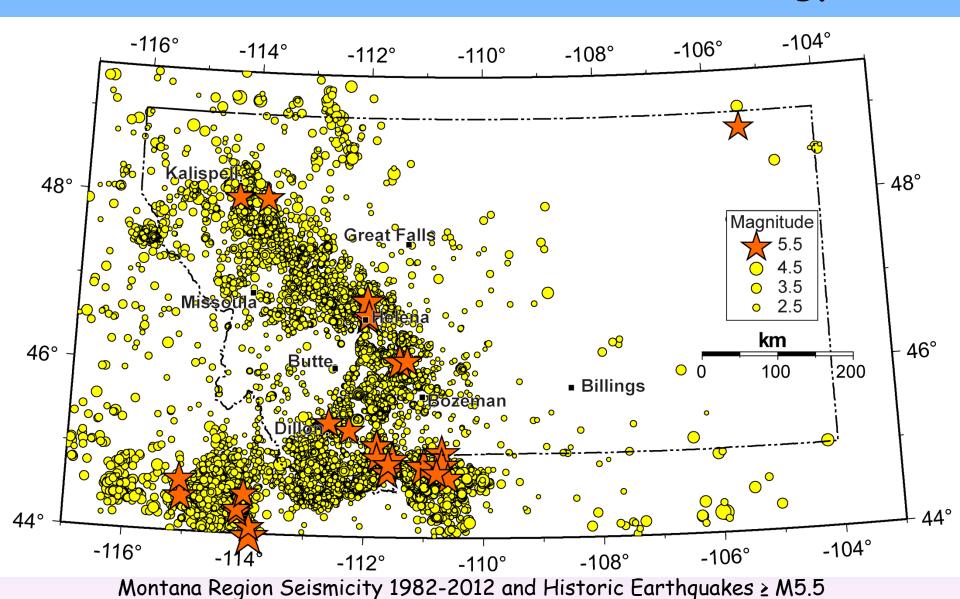
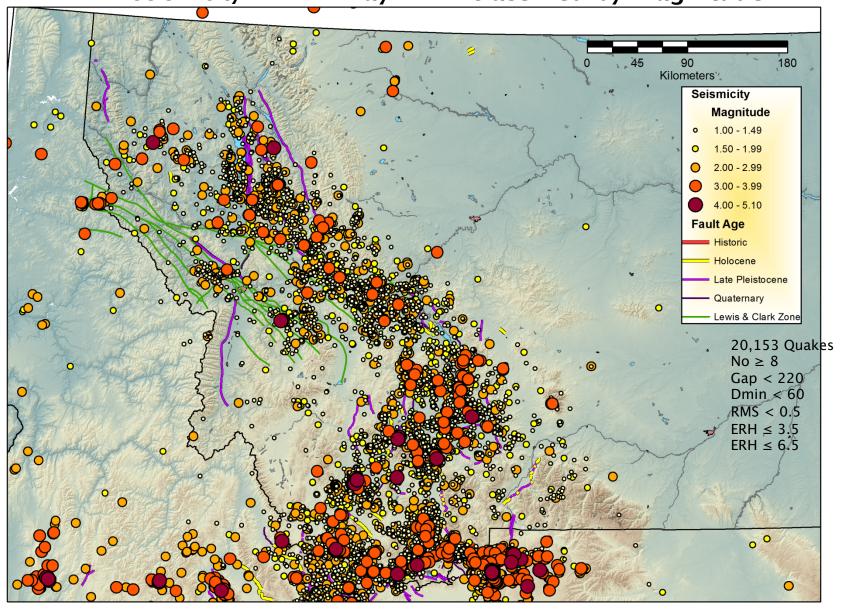
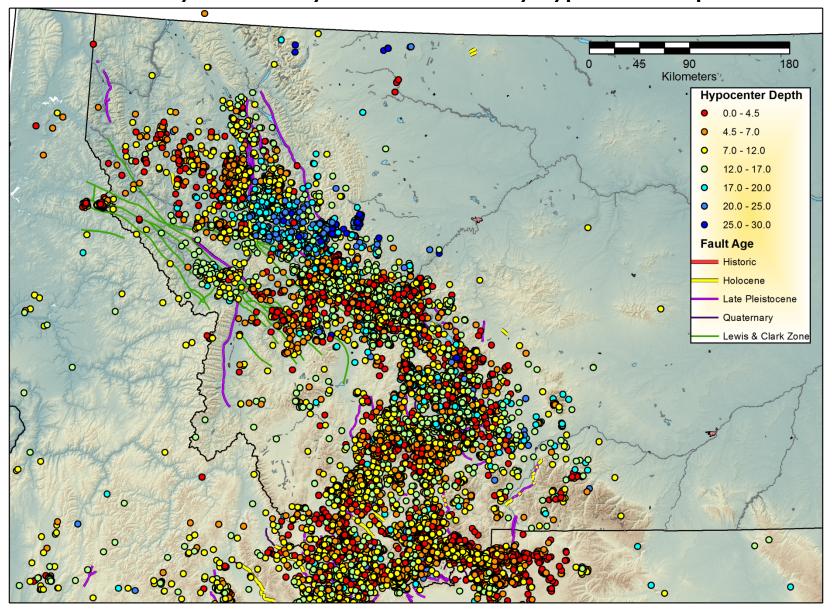
# Mike Stickney Montana Bureau of Mines and Geology



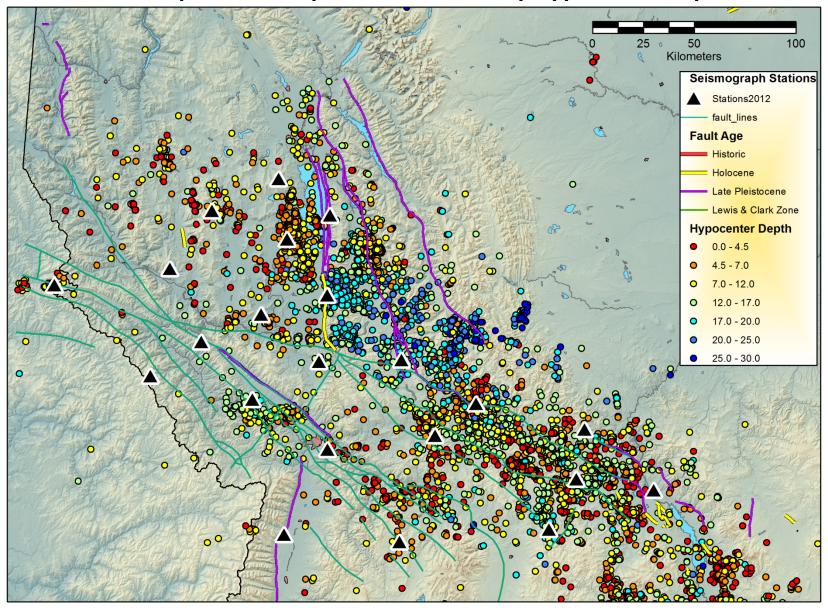
### Seismicity 1982 - May 2012 classified by magnitude



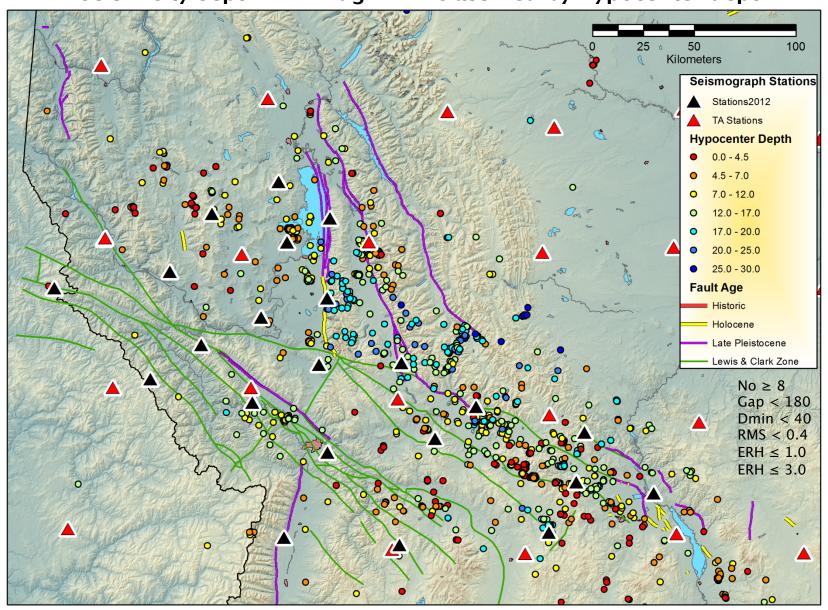
#### Seismicity 1982 - May 2012 classified by hypocenter depth



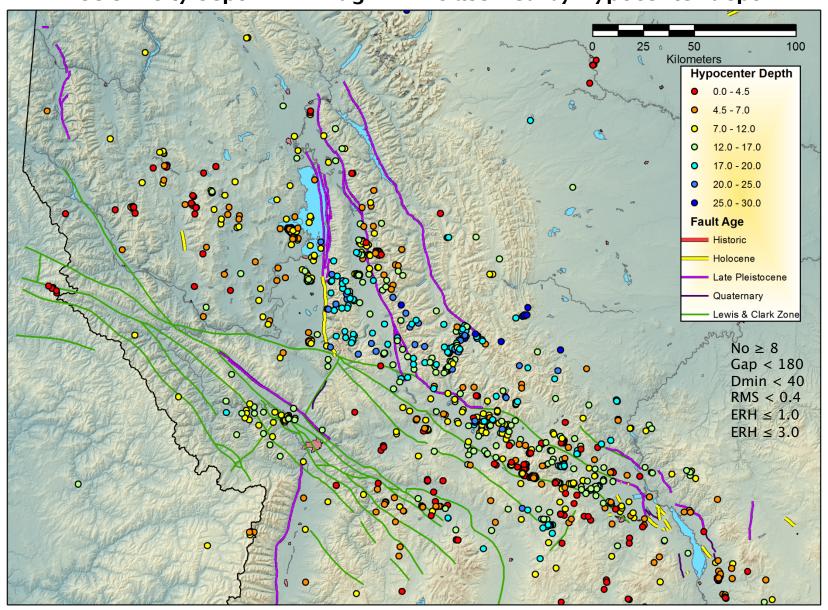
Seismicity 1982 - May 2012 classified by hypocenter depth



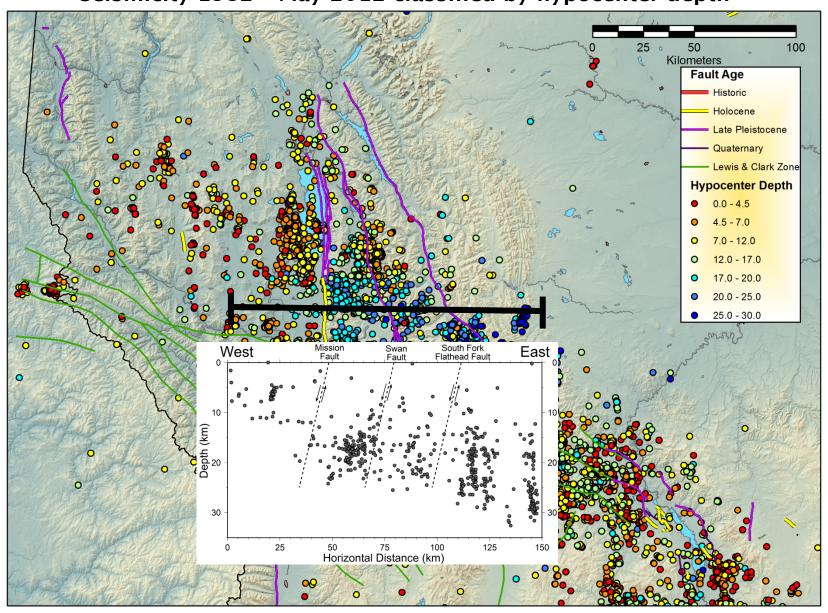
#### Seismicity Sept 2006-Aug 2009 classified by hypocenter depth



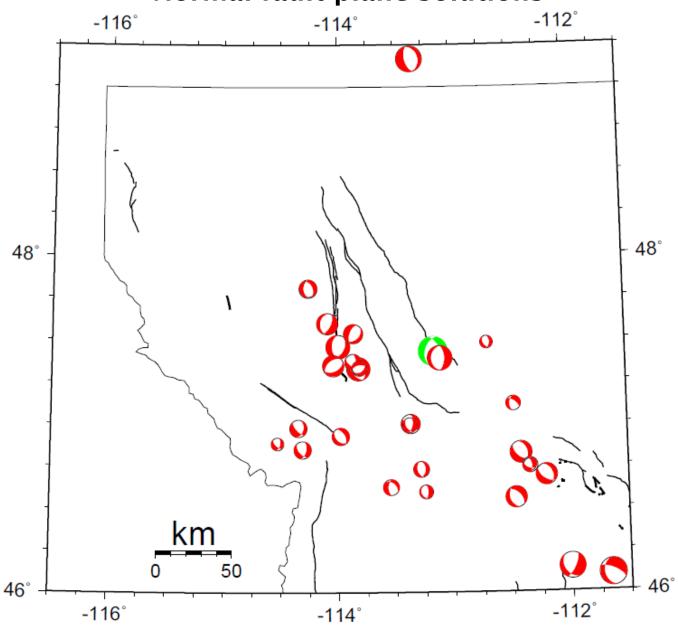
#### Seismicity Sept 2006-Aug 2009 classified by hypocenter depth



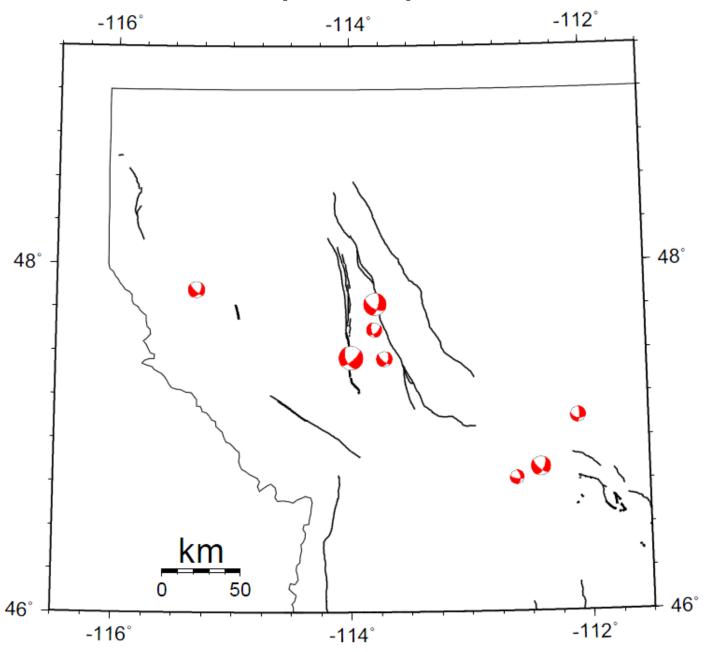
Seismicity 1982 - May 2012 classified by hypocenter depth



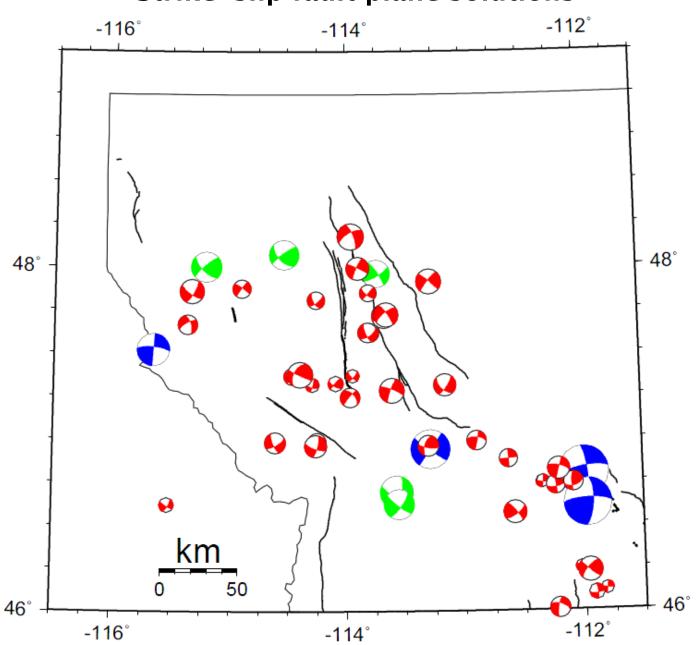
# Normal fault plane solutions



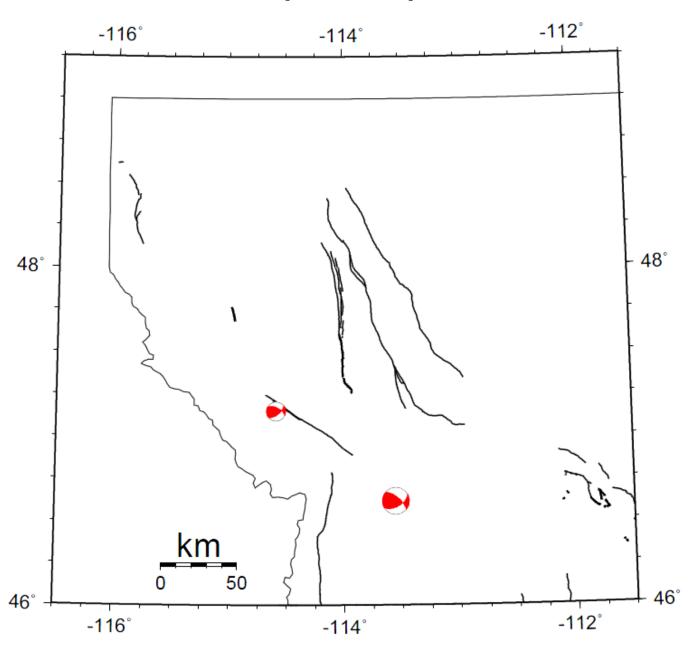
# Normal-oblique fault plane solutions



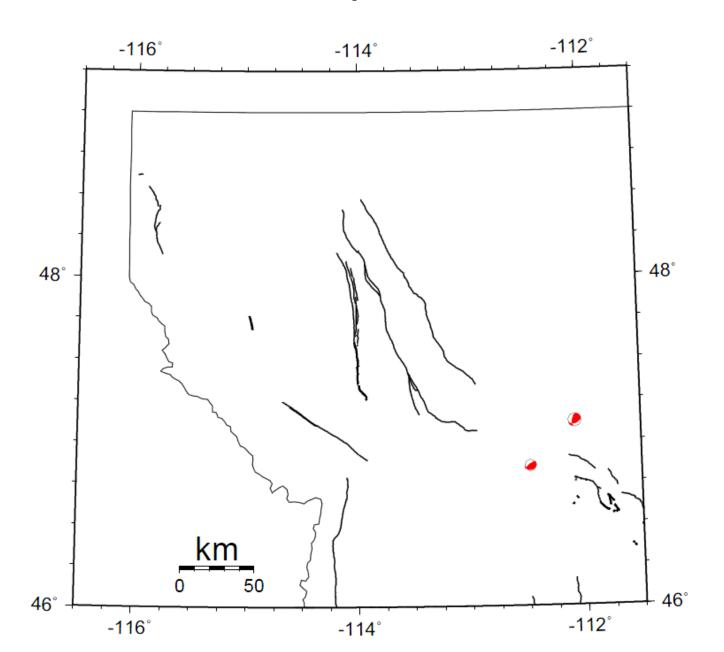
# Strike-slip fault plane solutions



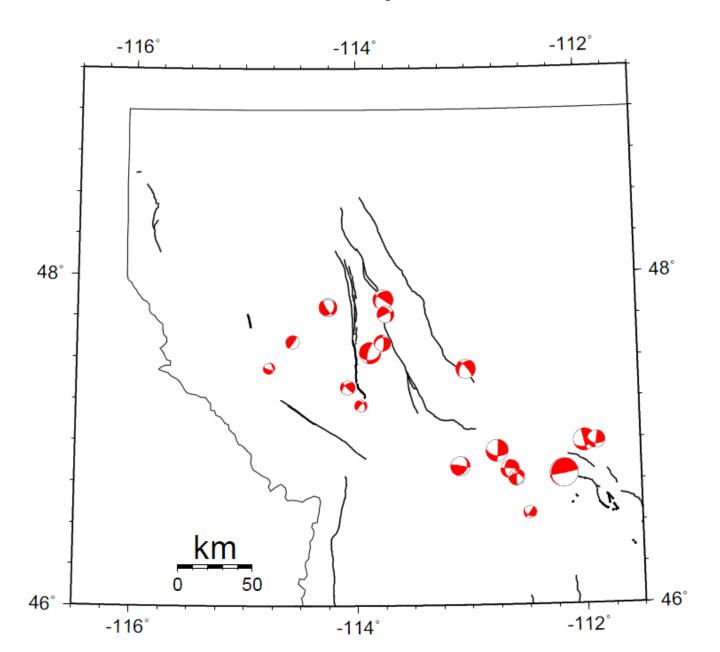
# Reverse-oblique fault plane solutions



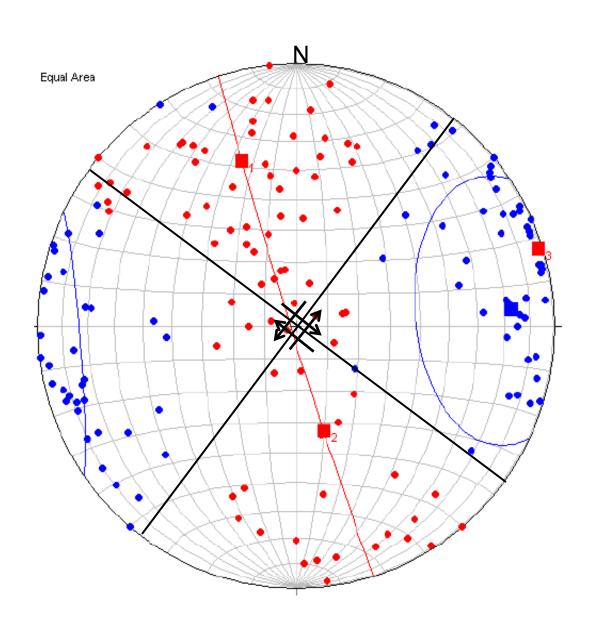
# Reverse fault plane solutions



## "None of the above" plane solutions



## P (red) and T (blue) axes for all fault plane solutions



#### Explanation

LINES SCATTER PLOT (n = 84): •

#### CYLINDRICAL BEST FIT

Eigenvalue Eigenvector (T&P) Confidence

1. 0.5760 341.5" 33.9"; Max = 21.5", Min = 7.1"

2. 0.3338 165.1° 56.1°

3. 0.0902  $72.6^{\circ}$   $1.7^{\circ}$ ,  $Max = 9.6^{\circ}$ ,  $Min = 6.3^{\circ}$ 

LINES SCATTER PLOT (n = 84): •

#### CONICAL BEST FIT:

N = 84; first line = 1; last line = 84 Cone Axis (T, P) = 85.5°, 17.3; Half angle = 34.3° error = -17.3263

