Nevada Seismological Laboratory University of Nevada Reno

Seismicity Update – 2018 To Date

NESC Meeting

August 1, 2018

NSL Catalog 2018 – To Date

7887 Located Events

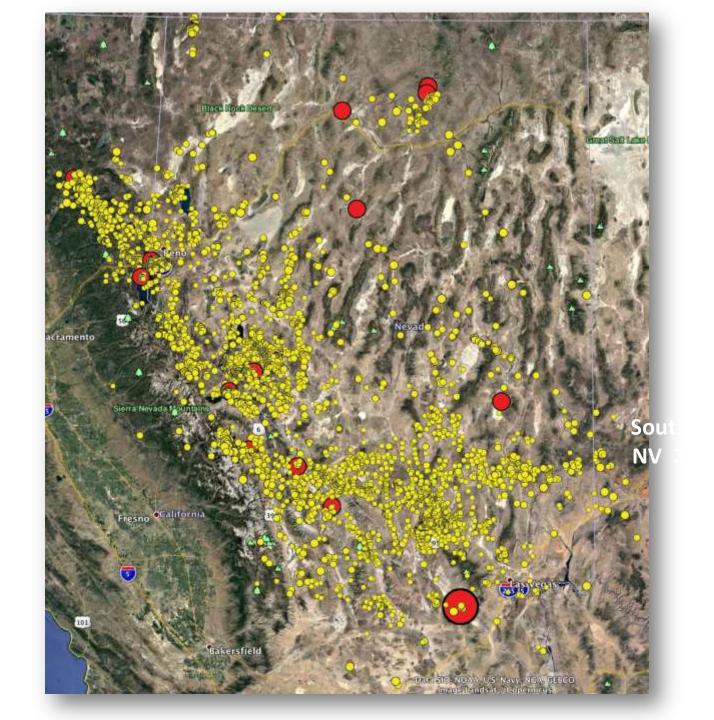
$$(Red M >= 3)$$

1 M >= 4

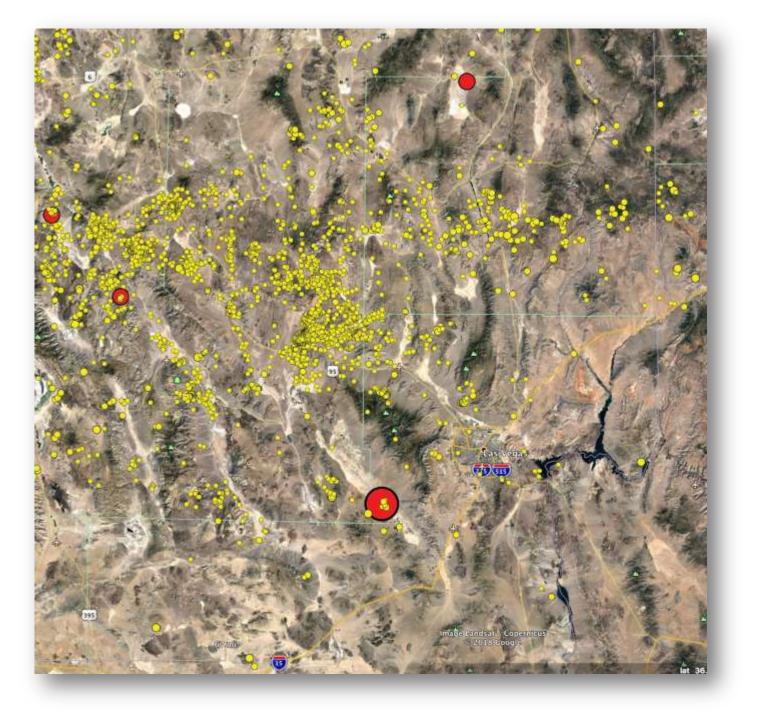
15 M >= 3

150 M >= 2

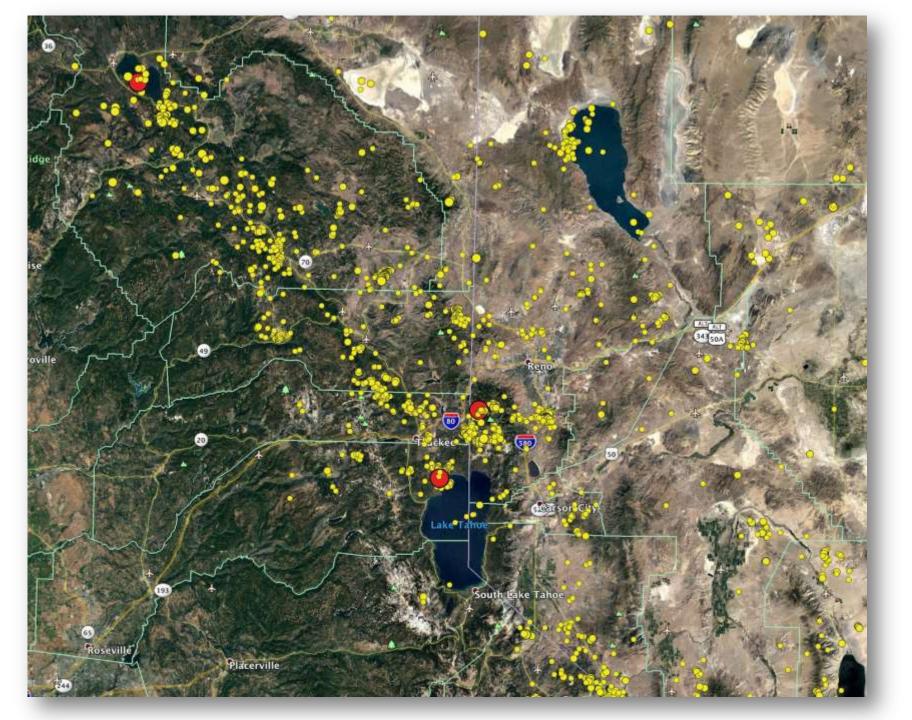
2018 Pace: 13,500/yr



S NV & SE Cal 2018

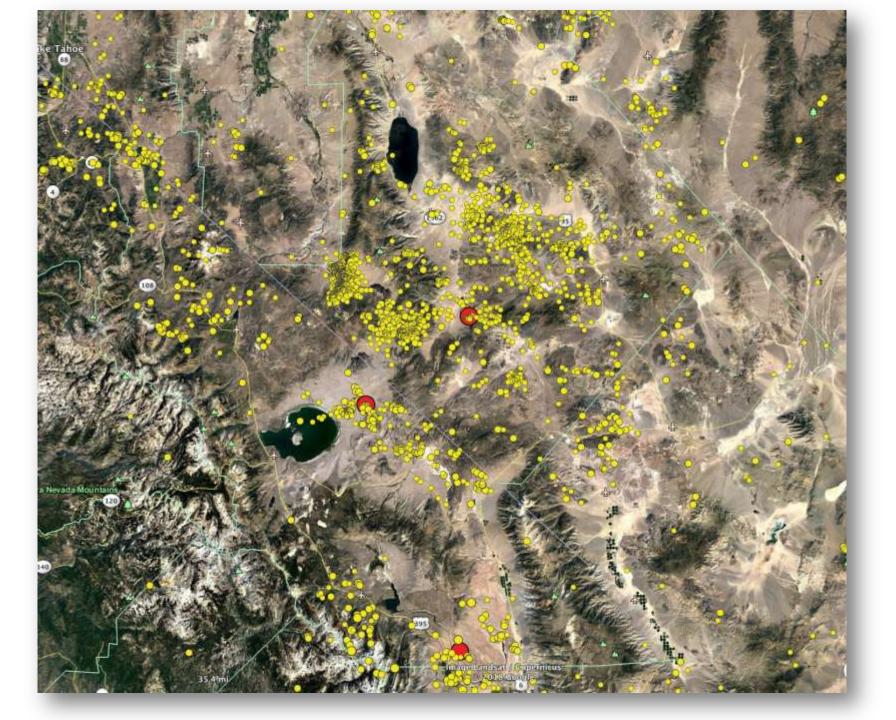


NW NV & NE Cal 2018



C NV & E Cal 2018

Central Walker Lane



Mw 4.11 50 km from 215

July 5, 2018 15:17 UTC

Lat: 35.8945

Lon: -115.7758

Depth: 8.56

Number of aftershocks



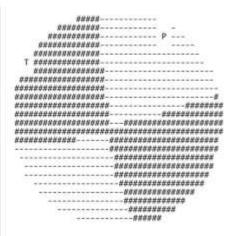
Moment Tensor Solution

Mw 4.11

50 km from 215

July 5, 2018 15:17 UTC

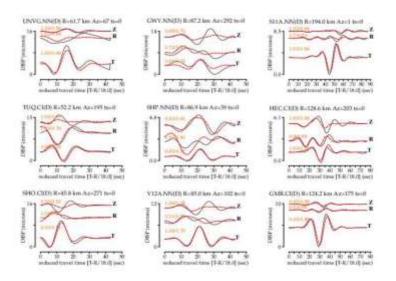
```
Event 642964
                   Moment Tensor Graphs
         Waveforms
REVIEWED BY NSL STAFF
Event ID:642964
Origin ID:1720379
 Algorithm: Ichinose (2003) Long Period, Regional-Distance Waves
 Seismic Moment Tensor Solution
2018/07/05 (186) 15:17:38.00 35.8937 -115.7717 001
        Depth = 10.0 (km)
            - 4.11
        Mo = 1.82x10^22 (dyne x cm)
        Percent Double Couple - 93 %
        Percent CLVD
        no ISO calculated
        Epsilon=-0.03
          Percent Variance Reduction = 71.88 %
         Total Fit
        Major Double Couple
                            strike dip rake
                 Nodal Plane 1: 79 82 -8
                Nodal Plane 2: 170 83 -172
        DEVIATORIC MOMENT TENSOR
        Moment Tensor Elements: Spherical Coordinates
                Mrr= -0.12 Mtt= -0.60 Mff= 0.72
                Mrt= -0.26 Mrf= 0.19 Mtf= 1.67 EXP=22
        Moment Tensor Elements: Cartesian Coordinates
                 -0.60 -1.67 -0.26
                 -1.67 0.72 -0.19
                 -0.26 -0.19 -0.12
        Eigenvalues:
                 T-axis eigenvalue= 1.85
                 N-axis eigenvalue- -0.06
                 P-axis eigenvalue= -1.79
        Eigenvalues and eigenvectors of the Major Double Couple:
                 T-axis ev= 1.85 trend=304 plunge=0
                 N-axis ev= 0.00 trend=213 plunge=79
                 P-axis ev=-1.85 trend=34 plunge=11
        Maximum Azmuithal Gap=73 Distance to Nearest Station= 45.8 (km)
        Number of Stations (D-Displacement/V-Velocity) Used-9 (defining only)
          SHO.CI.D TUQ.CI.D UNVG.NN.D V12A.NN.D
          SHP.NN.D GWY.NN.D GMR.CI.D HEC.CI.D
          S11A.NN.D
```

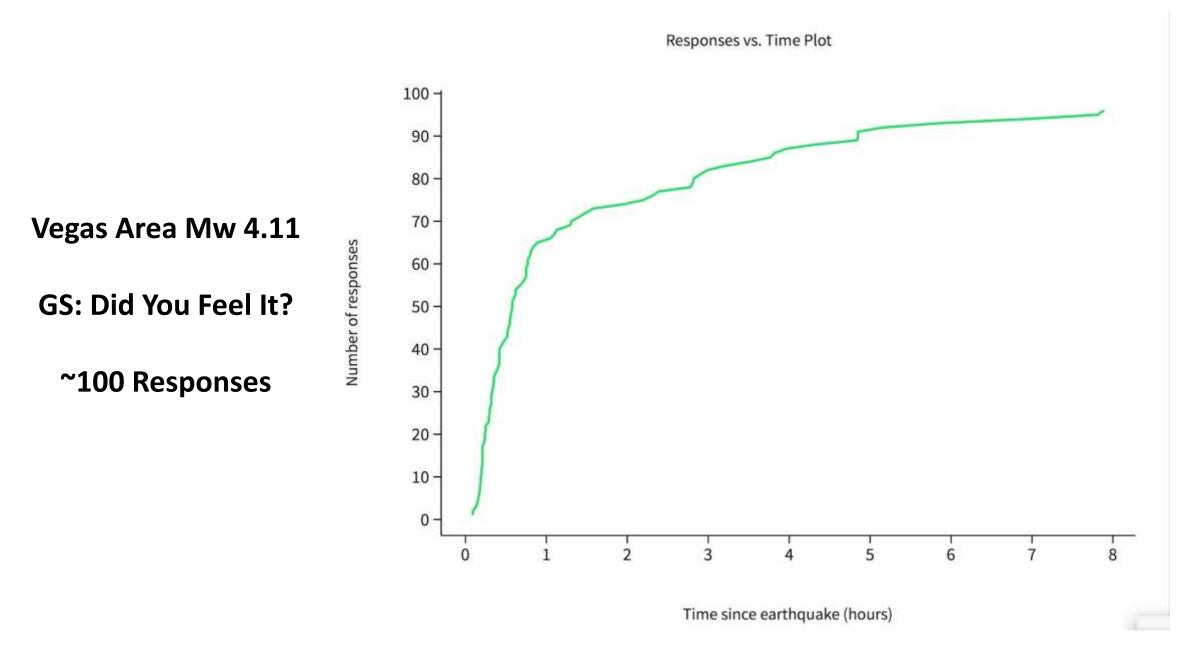


All Stations	defining	and nondefining:				
Station.Net	Def	Distance	Azi	Bazi	lo-f	hi-f vmodel
		(km)	(deg)	(deg)	(Hz)	(Hz)
SHO.CI (D)	Y	45.8	271	91	0.020	0.080 SHO.CI.wus.glib
TUQ.CI (D)	Y	52.2	195	15	0.020	0.080 TUO.CI.wus.glib
UNVG.NN (D)	Y	61.7	67	247	0.020	0.080 UNVG.NN.wus.glib
V12A.NN (D)	Y	85.8	102	283	0.020	0.080 V1ZA.NN.wus.qlib
SHP.NN (D)	Y	86.9	39	219	0.020	0.080 SHP.NN.wus.glib
GWY.NN (D)	Y	87.2	292	112	0.020	0.080 GWY.NN.wus.glib
GMR.CI (D)	Y	124.2	175	355	0.020	0.080 GMR.CI.wus.glib
HEC.CI (D)	Y	128.6	203	23	0.020	0.080 HEC.CI.wus.glib
511A.NN (D)	Y	194.0	1	181	0.028	0.080 S11A.NN.wus.glib

(V)-velocity (D)-Displacement

Author: www-data Date: 2018/07/05 16:41:34





Perry Fire – AlertWildfire Virginia Peak Camera - 7/31/2018 5:41PM - Paul Petersen BLM Camera Control

