# Earthquake Report: 2019.06.15
## M 7.2 Kermadec (& USGS Seismicity 2018-2019 M ≥ 2.0)

Total Intensity Anomaly (nT)
-200 -150 -100 -50 0 50 100 150 200

NOAA NGDC

CIRES

University of Colorado Boulder

**Magnitude**
8 7 6 5 4 3 2 1

**Depth (km)**
- 0 - 33
- 33 - 70
- 70 - 150
- 150 - 300
- 300 - 500
- 500 - 800

Jason R. Patton
earthjay.com © 2019

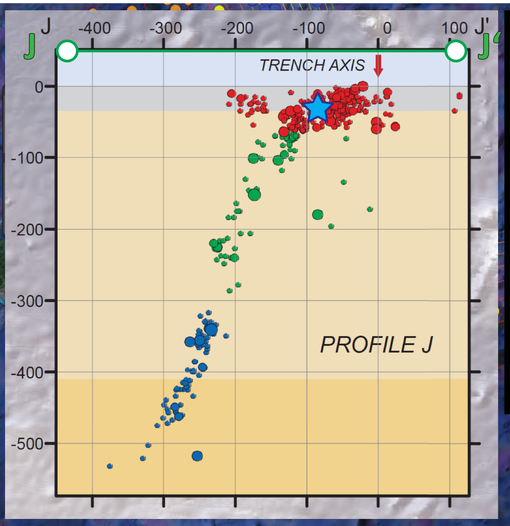
GEM GLOBAL EARTHQUAKE MODEL working together to assess risk

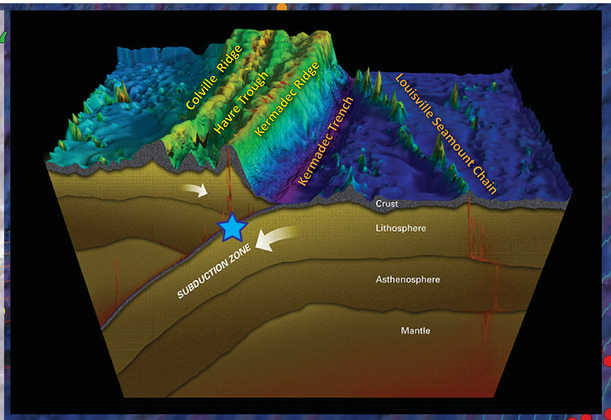
USGS Google Earth

Depth to Slab (km)
0 50 100 150 200 250 300 350 400 450 500 550 600 650 700

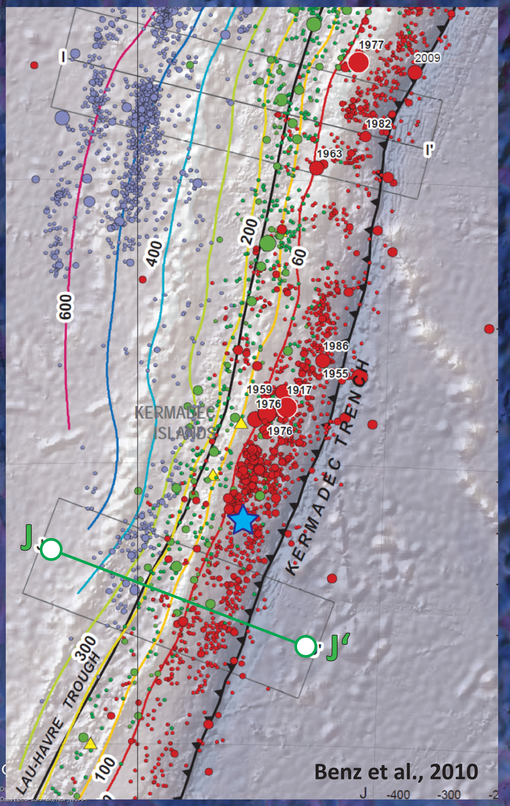
Normal Fault | Thrust Fault | Strike-Slip Fault
Top View
Side View
Side View

| SHAKING | Not felt | Weak | Light | Moderate | Strong | Very strong | Severe | Violent | Extreme |
|---|---|---|---|---|---|---|---|---|---|
| DAMAGE | None | None | None | Very light | Light | Moderate | Moderate/heavy | Heavy | Very heavy |
| PGA(%g) | <0.05 | 0.3 | 2.76 | 6.2 | 11.5 | 21.5 | 40.1 | 74.7 | >139 |
| PGV(cm/s) | <0.02 | 0.13 | 1.41 | 4.65 | 9.64 | 20 | 41.4 | 85.8 | >178 |
| INTENSITY | I | II-III | IV | V | VI | VII | VIII | IX | X+ |



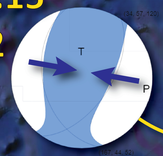

WHOI




Benz et al., 2010

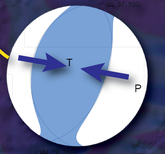
Australia plate

2019.06.15
M 7.2

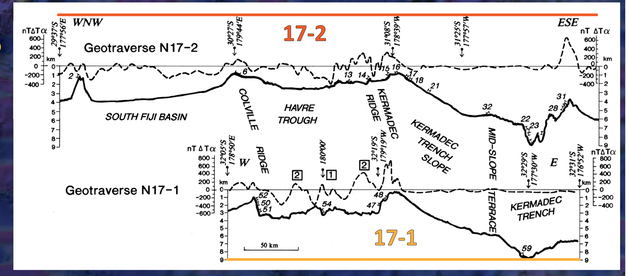



5.0
4.0
3.5
Kermadec Trench
Colville Ridge
Havre Trough
Kermadec Ridge
Louisville Seamount Chain
300 km
N

2019.06.15
M 6.1




6.0
3.5
Tonga Trench




Pacific plate

Ballance et al., 1999

