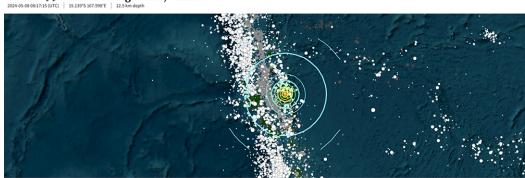
# 6.1 Mag. Earthquake, Luganville, Vanuatu - 5/8/2024

## M 6.1 - 99 km ENE of Luganville, Vanuatu



### Administrative Pegion

Data not available.

## Nearby Places

 Lugarville, Samma, Vannatu
 Population

 9/2 xmm (SL xmm) KVSW
 Propulation

 Port Villa, Schefe, Vannatu
 Propulation

 25/1 xmm (SDL xmm) KVSW
 Propulation

 W6, Logally Islands, New Caledonia
 Propulation

 Faith, South Province, New Caledonia
 Propulation

 Faith, South Province, New Caledonia
 Propulation

 Fully, Samples, South Province, New Caledonia
 Propulation

 Fig. 23/2 xmm (SSL xmm) SOUS
 Propulation

#### m--------

#### Saismetestonics of the Eastern Margin of the Australia B

The eastern margin of the Australia plate is one of the most sesimically active areas of the world due to high rates of convergence between the Australia and Pacific plates. In the region of New Zealand, the 30 km long Australia Pacific plate boundary extends from south of Macquarie Island to the southern Kermadoc Island chain. It includes an oceanic transform (the Macquarie Ridge), two oppositely verging subduction zones (Puryageur and Histurangi), and a transpressive continental transform, the Alpine Fault through South Island, New Zealand.

and the 2000 West here we will be a min's description of the section of the mere secti

North of New Zealand, the Australia-Pacific boundary stretches east of Tongs and Fiji to 250 km south of Samos. For 2,200 km the trench is approximately linear, and includes two segments where old (>120 M periodic coacin (binds) periodic periodi

southern Lip of this spreading center is propagating into the North Island of New Zealand, rifting it apart. In the southern Lau Basin, west of the Tonga trench, the spreading rate increases northward from 60 to 5 mm/yr. and in the northern Lau Basin, multiple spreading centers result in an extension rate as high as 160 mm/yr. The overall subdonic volocity of the Pacific patie is the vector sum of Australia-Pacific velocit and back are spreading velocity: thus it increases northward along the Kermadec trench from 70 to 100 mm/yr, and along the Tonga trench from 20 to 240 mm/yr.

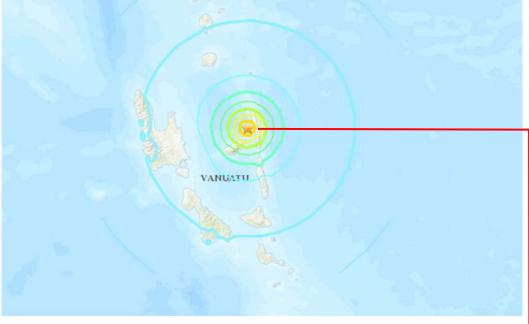
The Kermadec-Tonga subduction zone generates many large earthquakes on the interface between the descending Pacific and overriding Australia plates, within the two plates themselves and, less frequently,

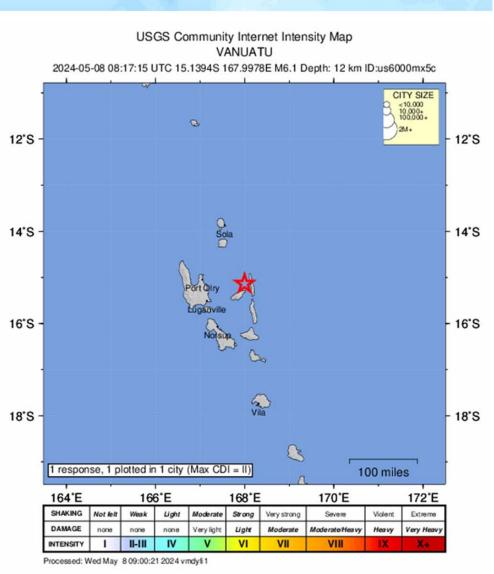
occurred close to the plate boundary were underthrusting events on the plate interface, or were intraplate earthquakes. On September 29, 2009, one of the largest normal fault (outer rise) earthquakes ever recorded (M8.1) occurred south of Samoa, 40 km east of the Tonga trench, generating a tsunami that killed at least 180 people.

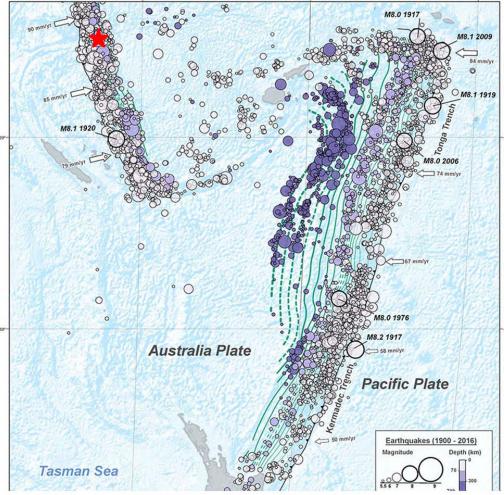
Australia Pacific convergence rates increase northward from 80 to 90 mm/yr along the North New Hebrides tenerch, but the Australia plate consumption rate is increased by extension in the back arc and in the

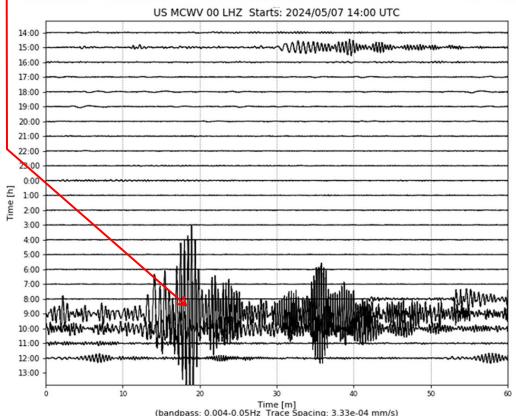
North Fill Bash arc spreading occurs at a rate of 50 mm/yr along most of the subduction zone, except near "15"S, where the D'Entrecasteeux ridge intersects the trench and causes localized compression of 50 mm/yr in the back arc. Therefore, the Au

Large earthquakes are common along the North New Hebrides trench and have mechanisms associated with subduction tectonics, though occasional strike slip earthquakes occur near the subduction of the D'Entrecasteaux ridge. Within the subduction zone WATS+ earthquakes have been recorded since 1900. On October 7, 2009, a large interplate event (MAT.8) in the northern North New Hebrides subduction zone was followed 15 minutes later by an even larger interplate event (MAT.8) 60 km to the northern North New Hebrides subduction zone was followed 15 minutes later by an even larger interplate event (MAT.8) 60 km to the northern North New Hebrides subduction zone was followed 15 minutes later by an even larger interplate event (MAT.8) 60 km to the northern North New Hebrides subduction zone was followed 15 minutes later by an even larger interplate event (MAT.8) 60 km to the northern North New Hebrides subduction zone was followed 15 minutes later by an even larger interplate event (MAT.8) 60 km to the northern North New Hebrides subduction zone was followed 15 minutes later by an even larger interplate event (MAT.8) 60 km to the northern North New Hebrides subduction zone was followed 15 minutes later by an even larger interplate event (MAT.8) 60 km to the northern North New Hebrides subduction zone was followed 15 minutes later by an even larger interplate event (MAT.8) 60 km to the northern North New Hebrides subduction zone was followed 15 minutes later by an even larger interplate event (MAT.8) 60 km to the northern North New Hebrides subduction zone was followed 15 minutes later by an even larger interplate event (MAT.8) 60 km to the northern North New Hebrides subduction zone was followed 15 minutes later by an even larger interplate to the northern North New Hebrides subduction zone was followed 15 minutes later by an even larger interplate to the northern North New Hebrides subduction zone was followed 15 minutes later by an even larger interplate to the northern North New Hebrides subduction zone was followed 15









Large (6.1 Mag.), shallow (13 Km) offshore quake. No tsunami.