Earthquake Report: 2018.08.05
M 6.9 Lombok (& USGS Seismicity 1918-2018 M ≥ 6.0)

CCOP — Coordinating Committee for Geoscience Programmes in East and Southeast Asia

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

CIRES

Jason R. Patton earthjay.com © 2018

USGS Google Earth

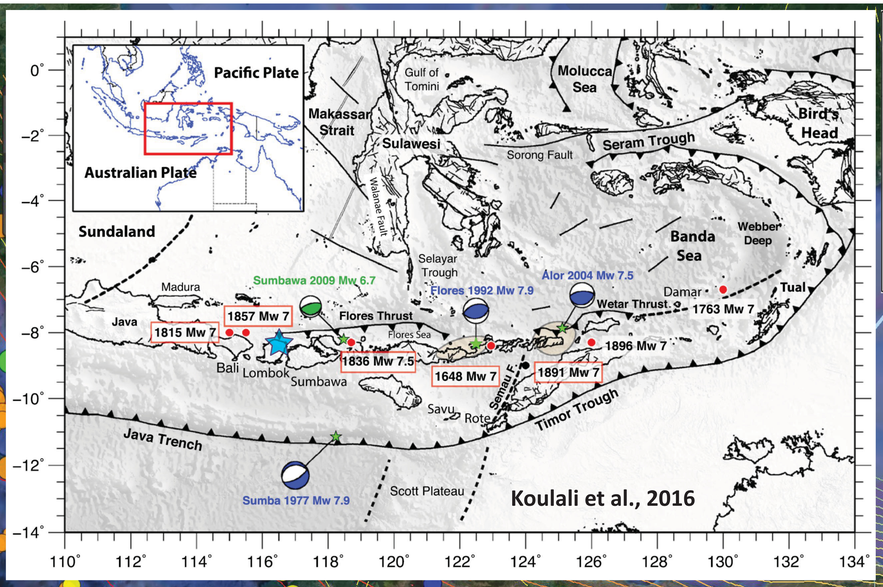
Depth to Slab (km): 0 50 100 150 200 250 300 350 400 450 500 550 600 650 700

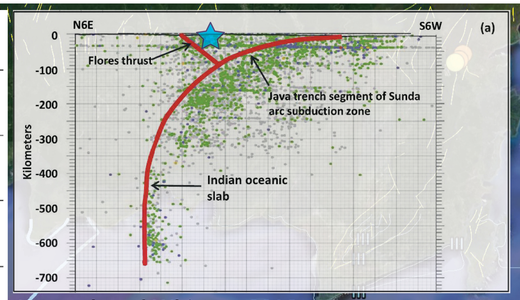
Plate Boundaries: Divergent, Transform, Convergent, Other; Plate Motion; *Plate motion vectors relative to Eurasian plate, plate boundaries

Normal Fault, Thrust Fault, Strike-Slip Fault — Top View, Side View

INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
Shaking	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
Damage	None	None	None	Very slight	Light	Moderate	Moderate/ heavy	Heavy	Very heavy
Peak Acc	<0.17	0.17-1.4	1.4-3.9	3.9-9.2	9.2-18	18-34	34-65	65-124	>124
Peak Vel	<0.1	0.1- 1.1	1.1- 3.4	3.4- 8.1	8.1- 16	16 - 31	31 - 60	60-116	>116

Peak Acc = Peak ground acceleration (g), Peak Vel = Peak ground velocity (cm/s)

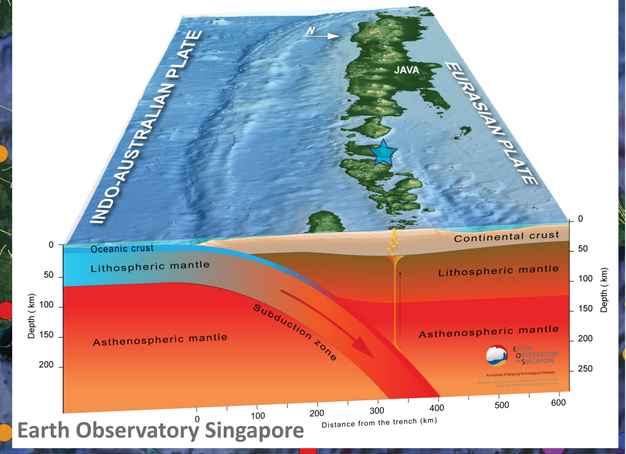




Hengesh and Whitney, 2016

Magnitude: 8 7 6 5 4 3 2 1

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



Earth Observatory Singapore

Sunda plate

2018.08.05
M 6.9

2018.07.28
M 6.4

2018.07.28
M 6.0

2018.07.19
M 5.4

Java

Bali

Lombok

Sumbawa

Flores

Timor

Sumba

Flores Thrust

Koulali et al., 2016

AU-SU

Sunda subduction zone

Australia plate

