


Workshop Pengurangan Resiko Bencana Kota Surabaya Dan Jawa Timur, ITS, 19 Oktober 2017

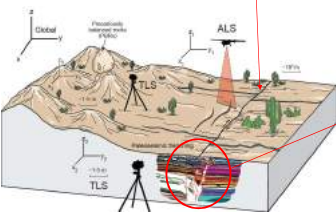
UPDATING SESAR AKTIF INDONESIA

Focus: Surabaya dan Jawa Timur

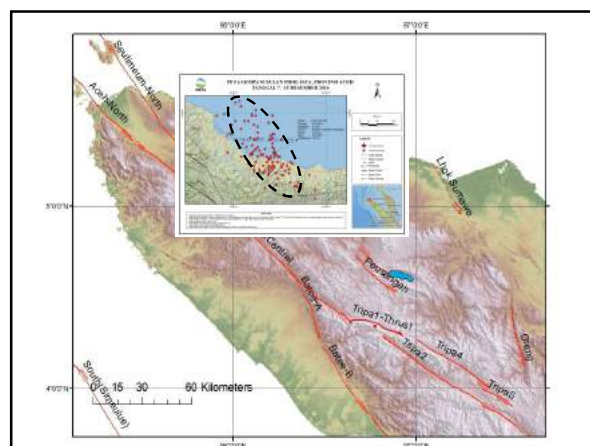
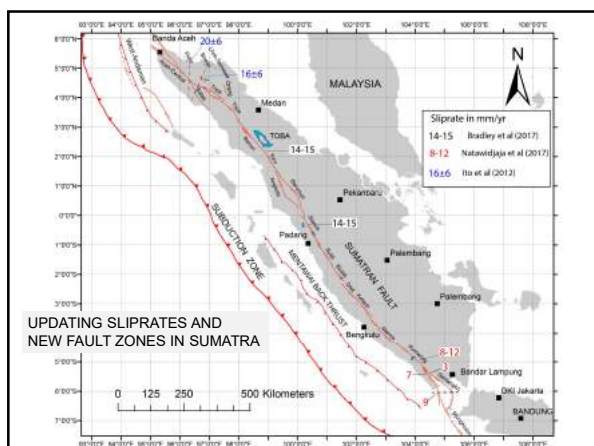
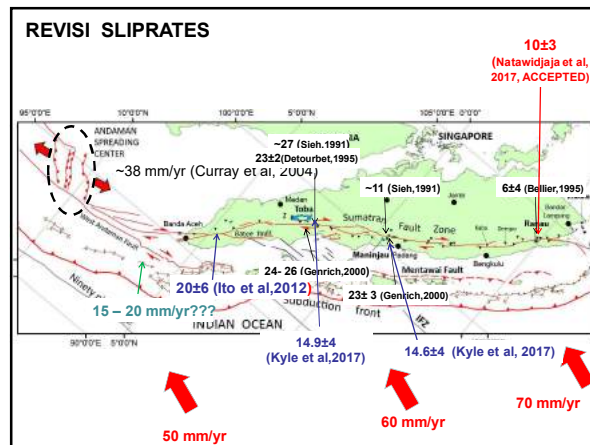


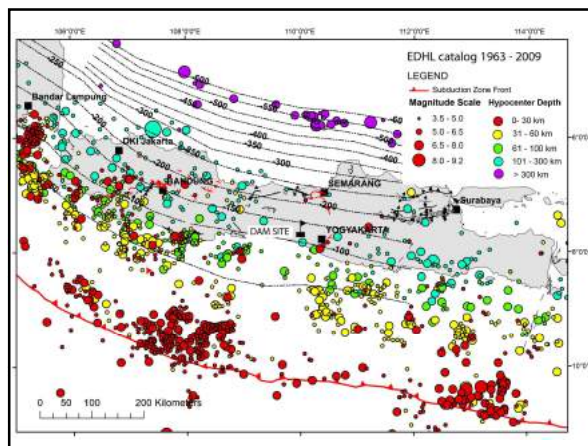
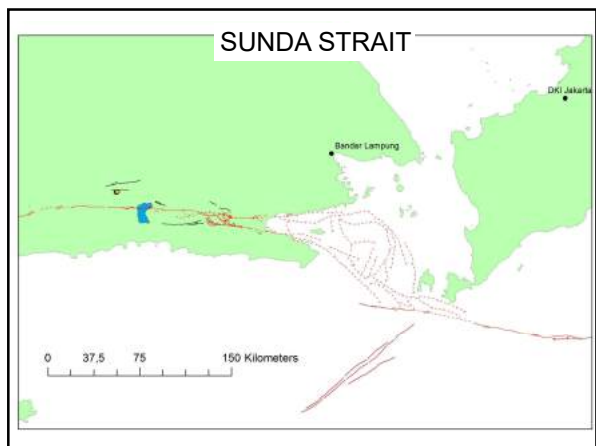
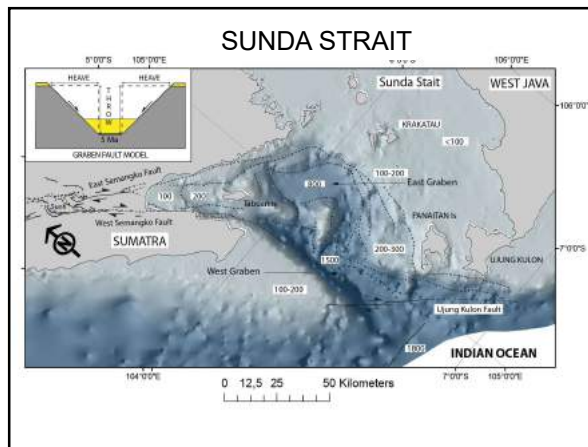
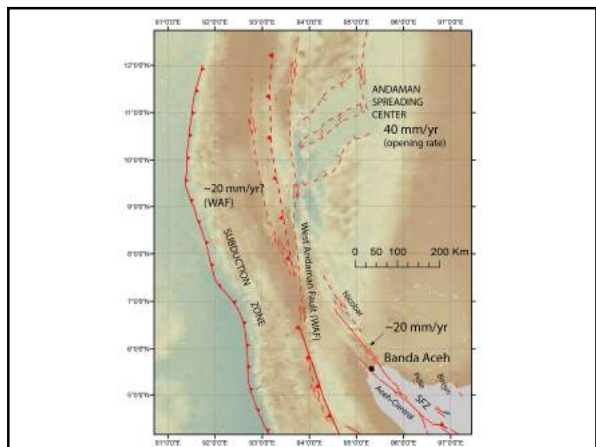
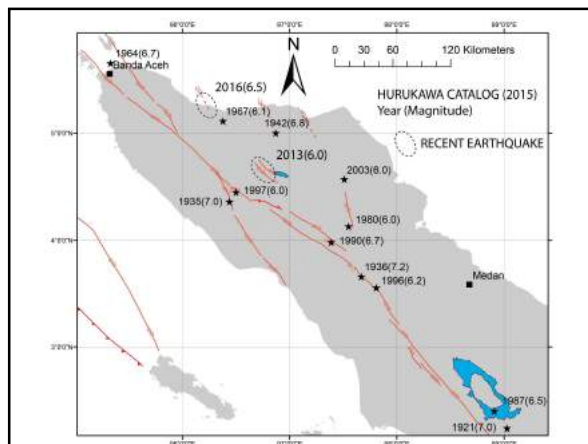
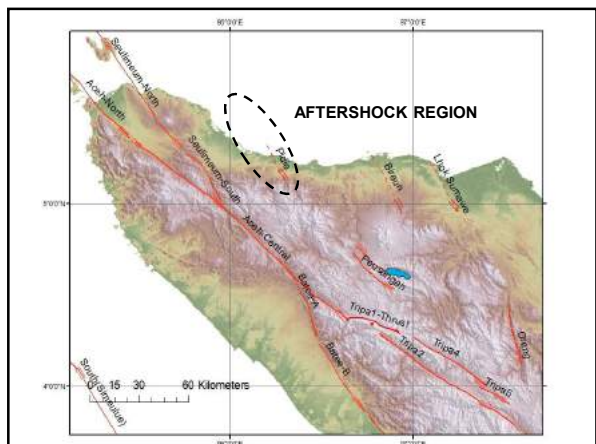
Oleh:
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Ketua Pokja Geologi, Pusat Studi Gempa Nasional (PuSGeN)
 Anggauta: Benjamen Sapiie, Ph.D, Dr. Mudrik R.Daryono, Gayatri Marliyani, Ph.D, Ma'ruf Mukti, Ph.D, Dr.Supartoyo, Dr. Astika Pumpuni, Dr.Ahmad Solihin

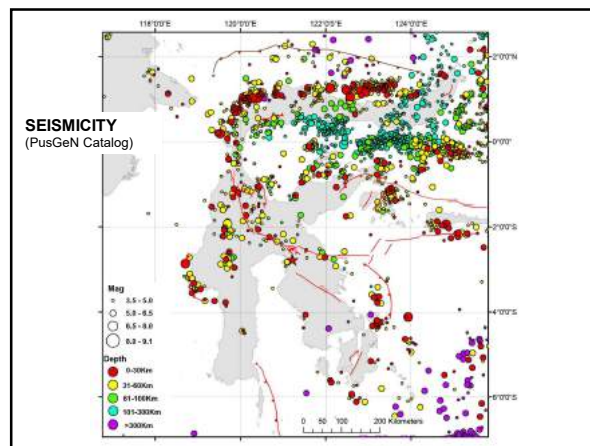
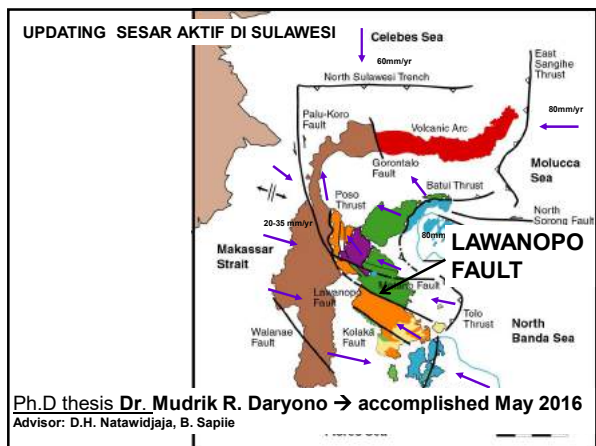
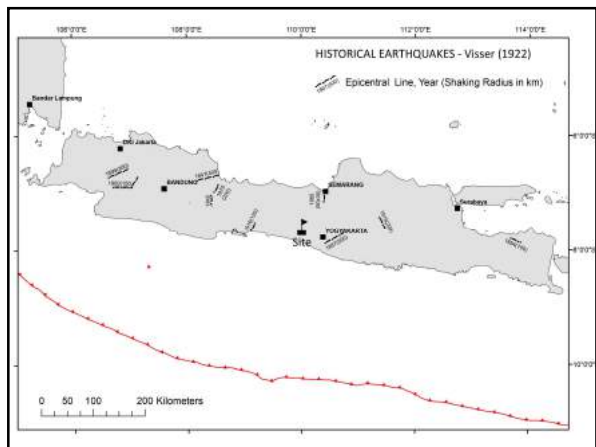
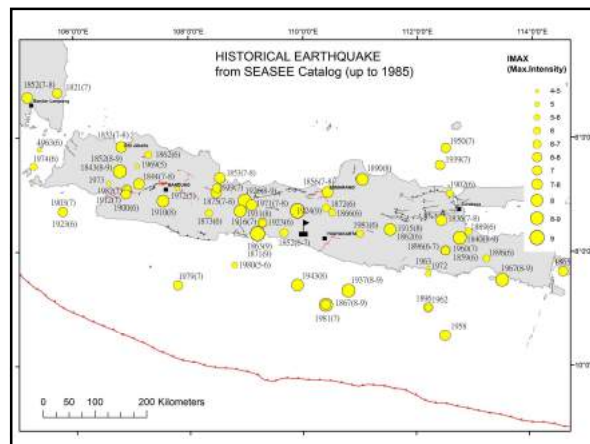
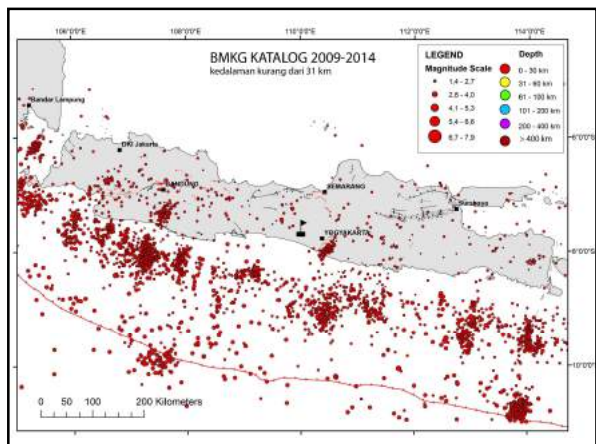
UPDATING SESAR AKTIF

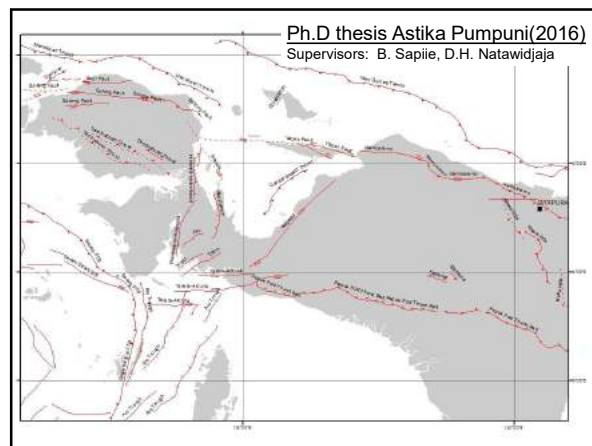
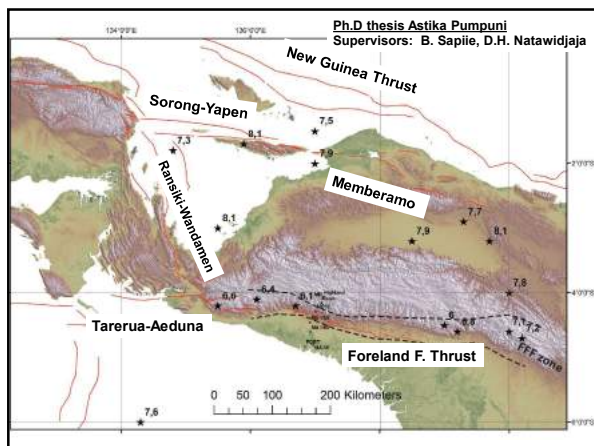
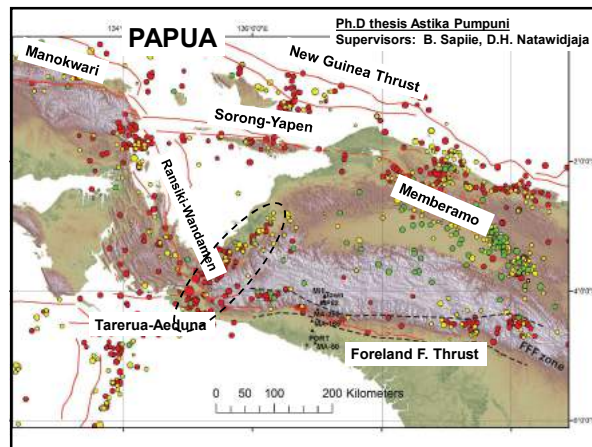
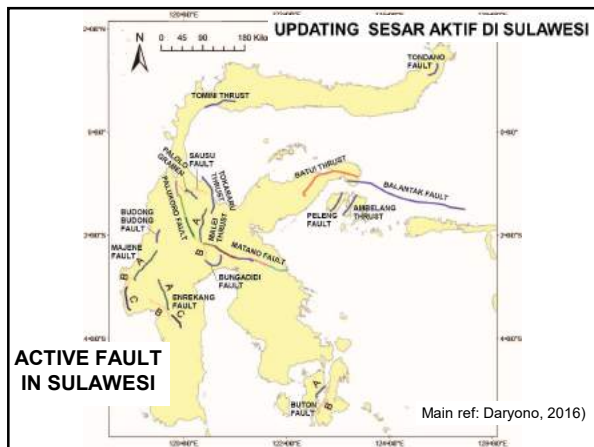
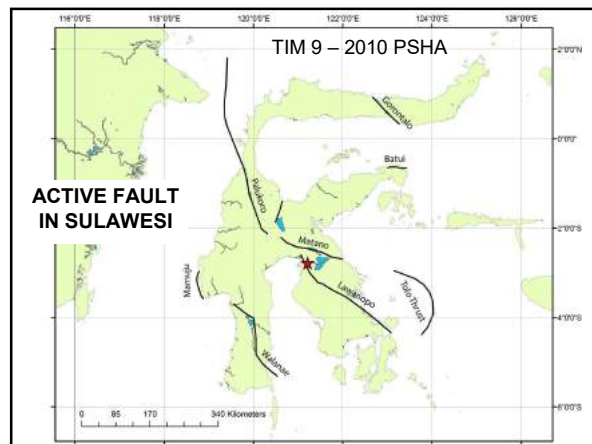
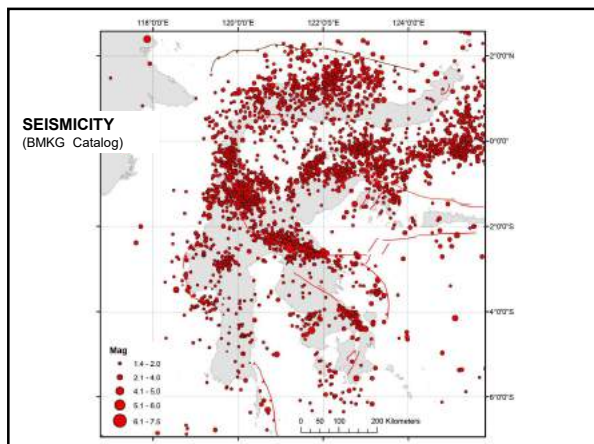


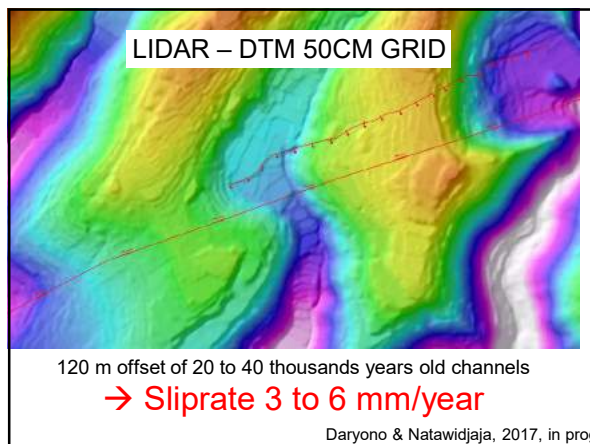
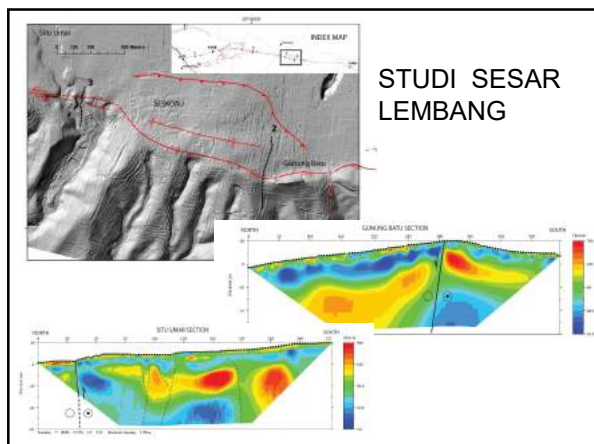
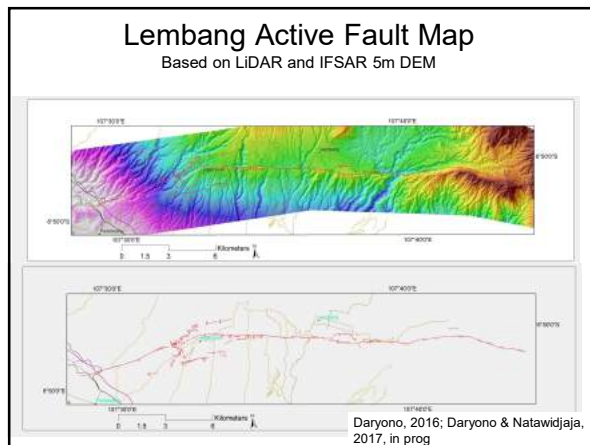
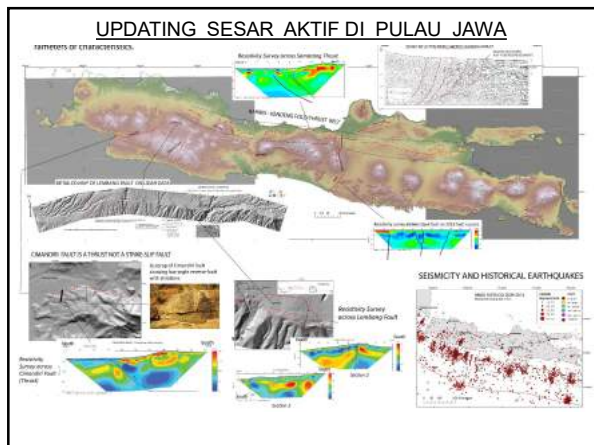
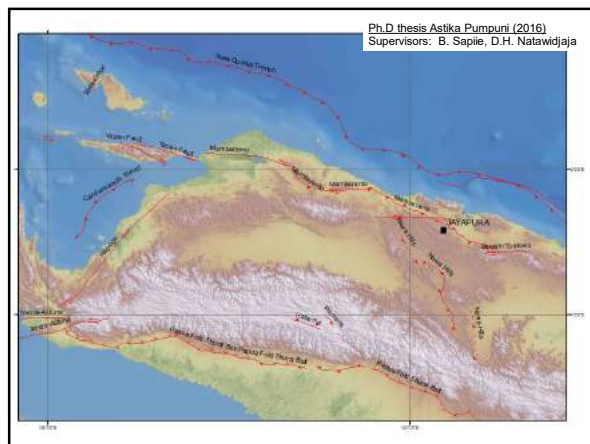
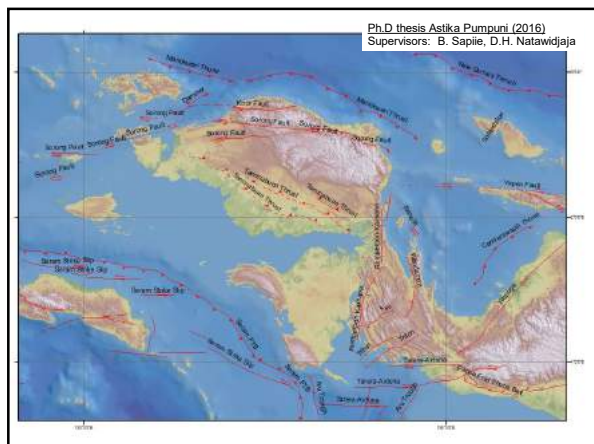
1. LOKASI YANG LEBIH AKURAT
2. UPDATING SEGMENTASI SESAR
3. SLIPRATE (Laju Gerak) (data primer masih < 5%)
4. PALEO-EARTHQUAKE (data primer masih < 2%)
5. TIPE/MEKANISME SESAR
6. PENAMBAHAN JALUR SESAR BARU

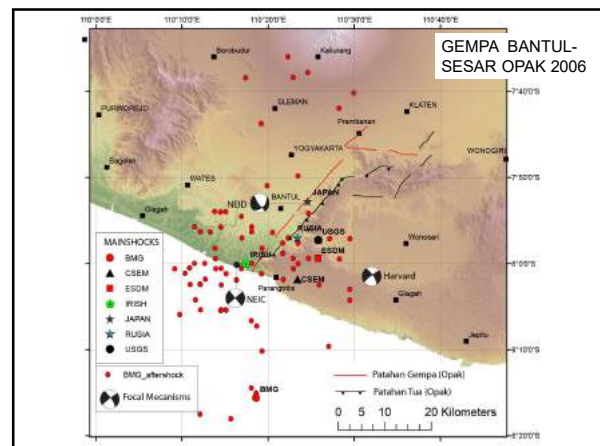
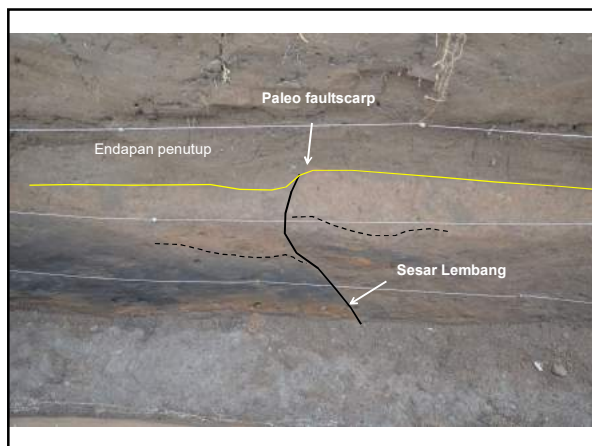
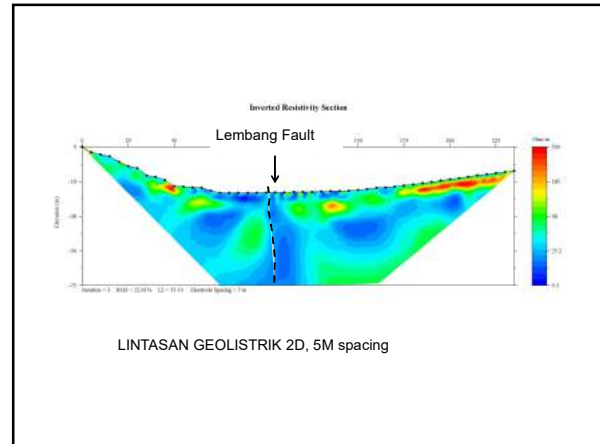
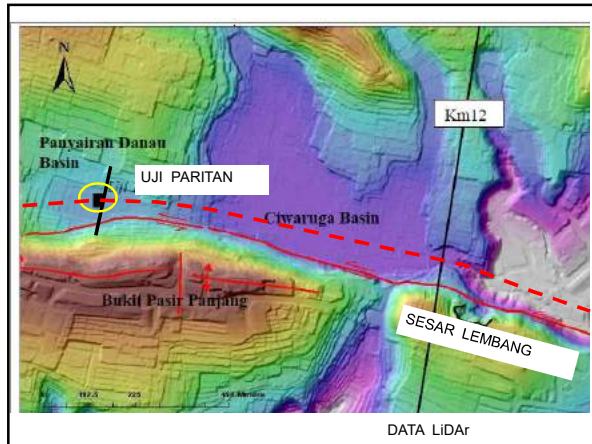


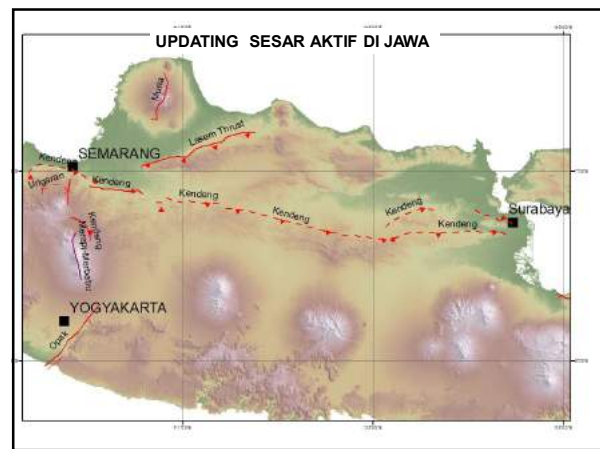
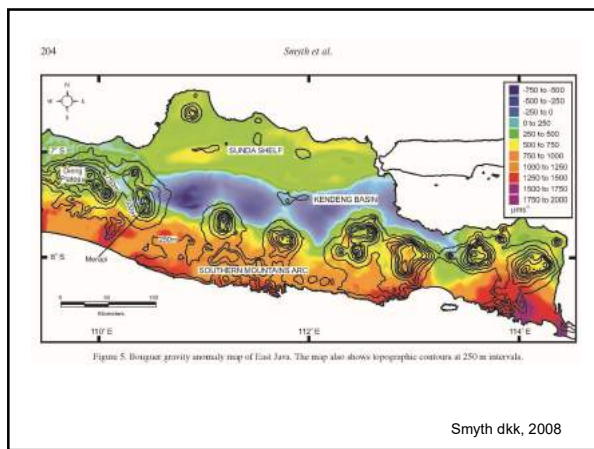
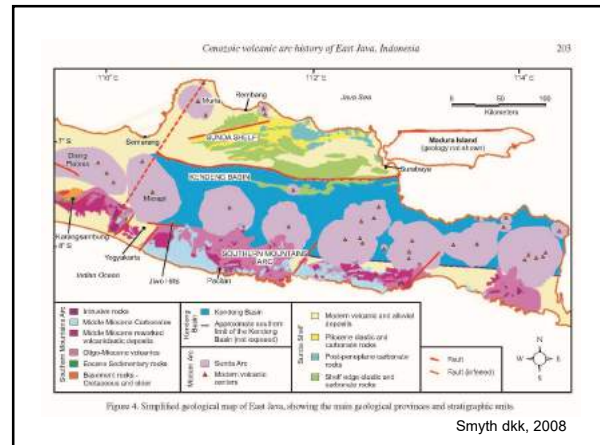
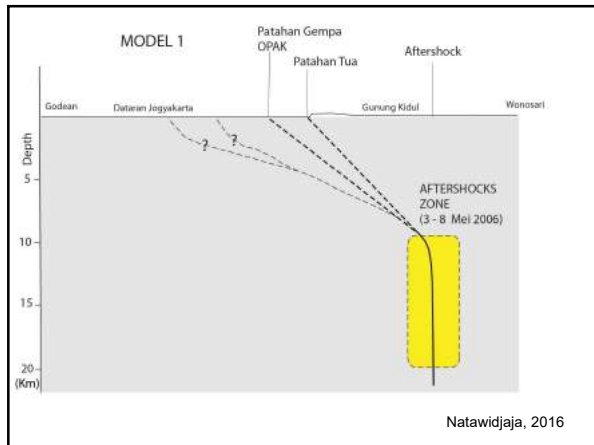
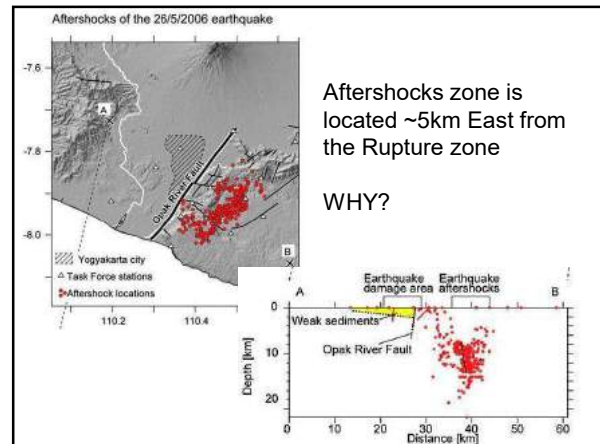
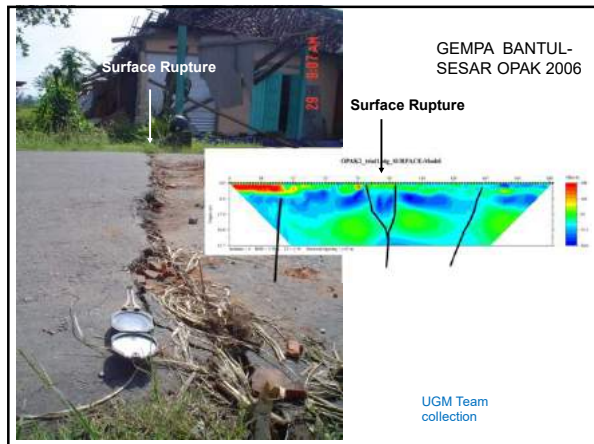


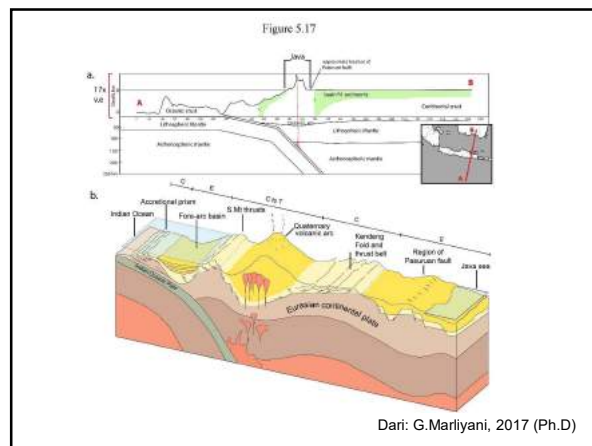
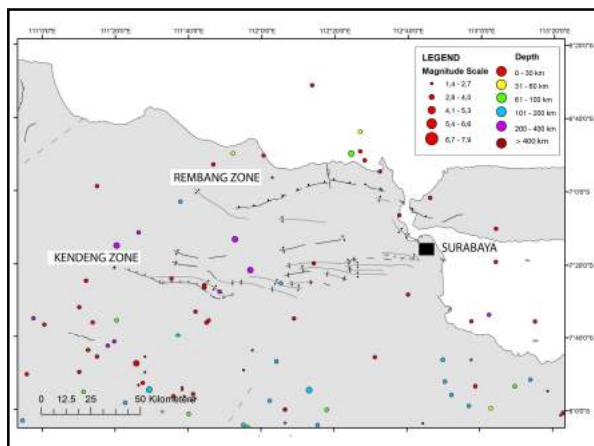
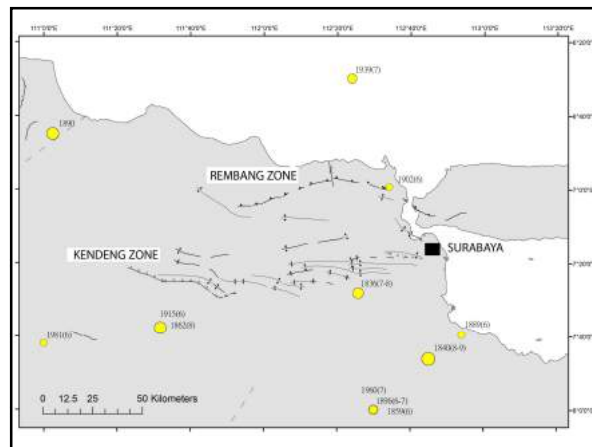
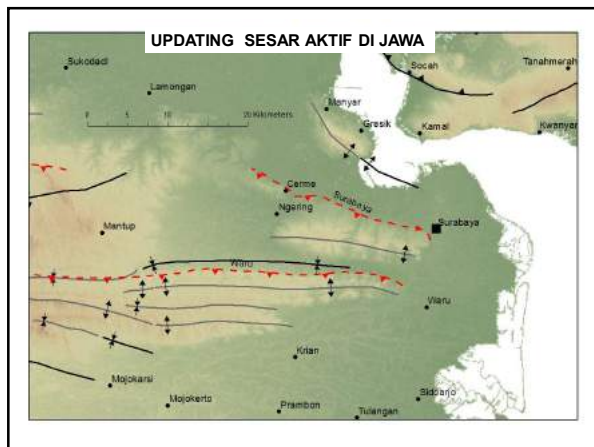
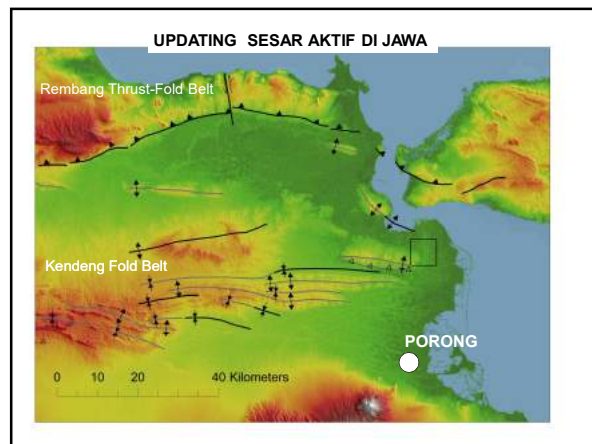
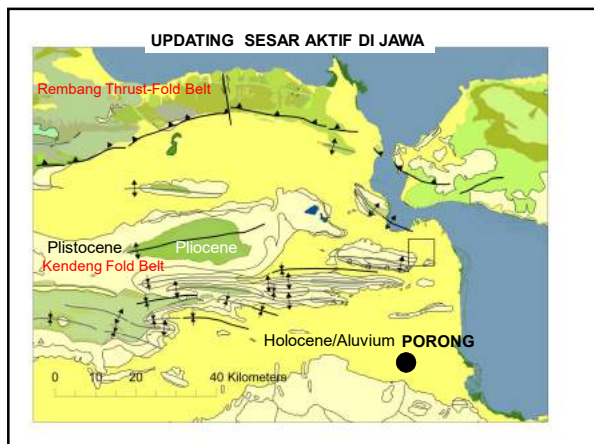


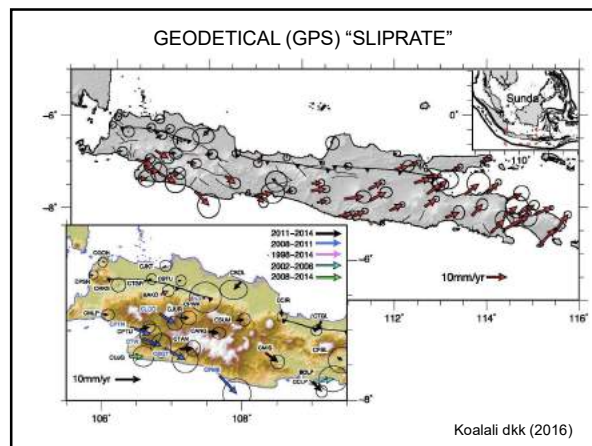
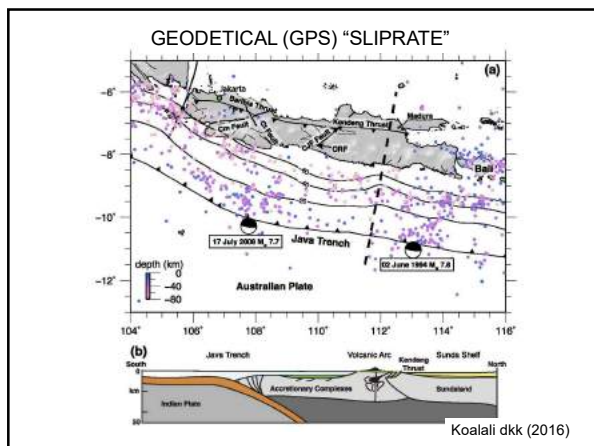
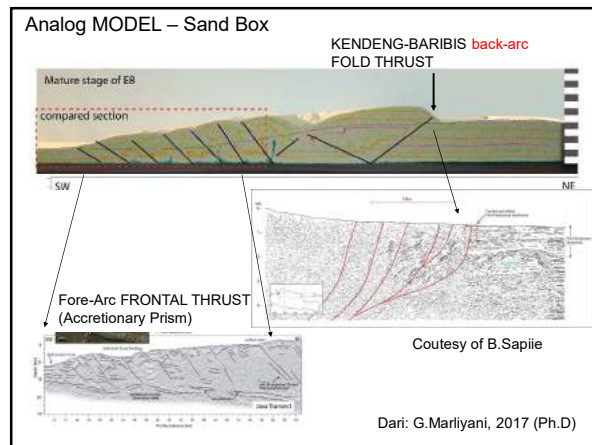
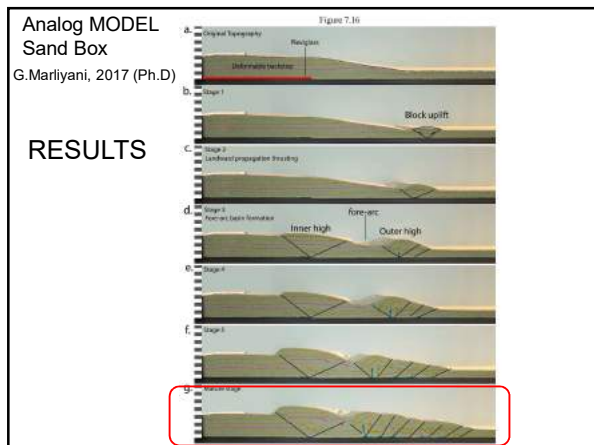
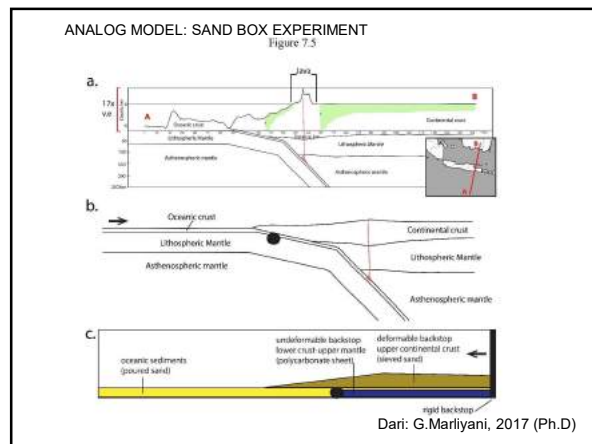
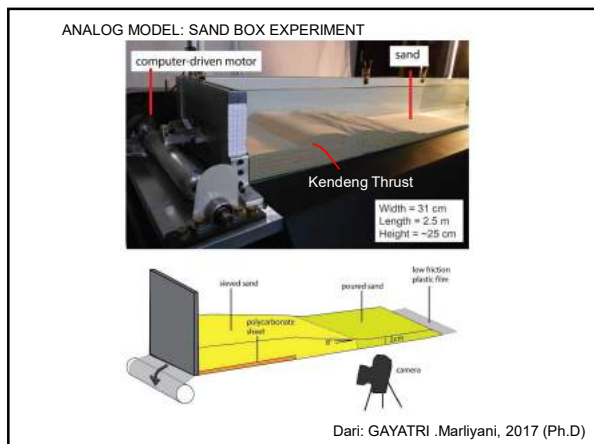


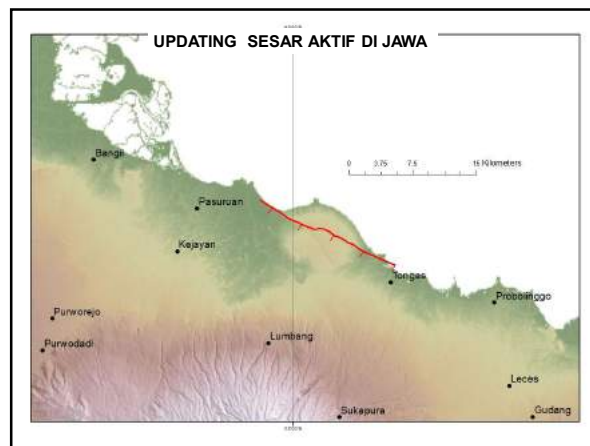
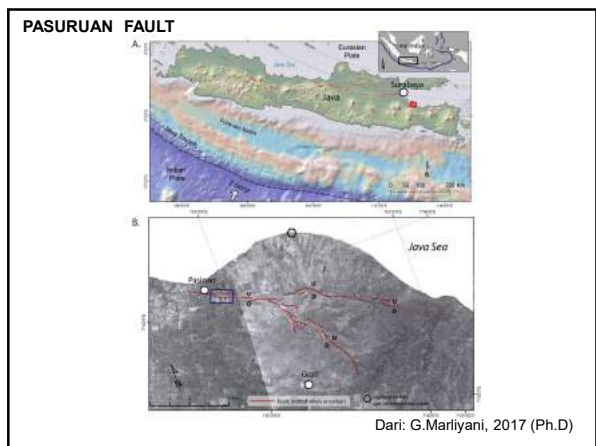
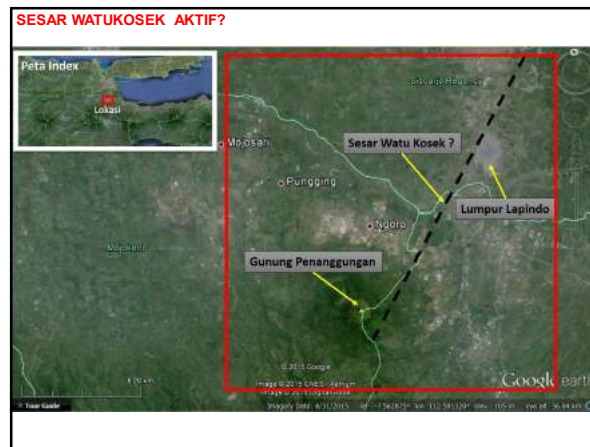
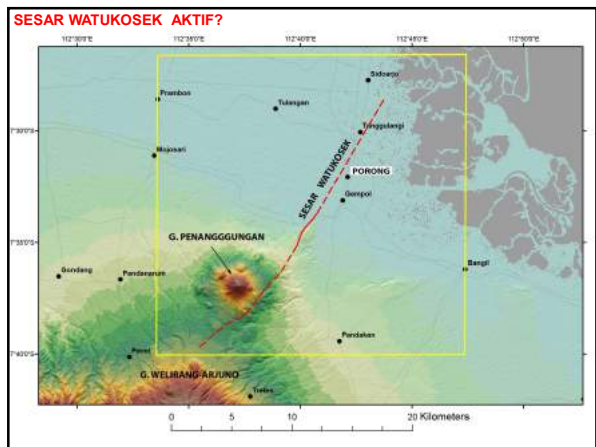
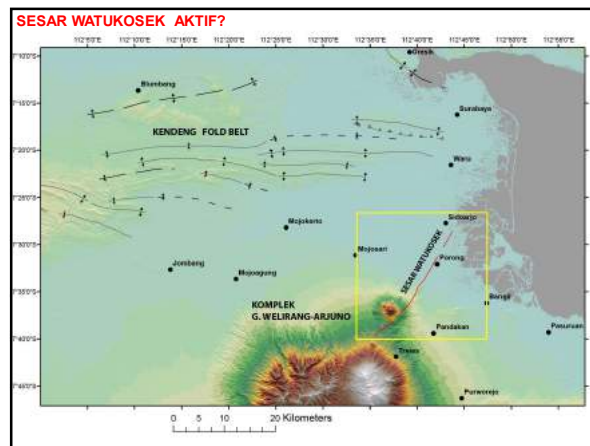
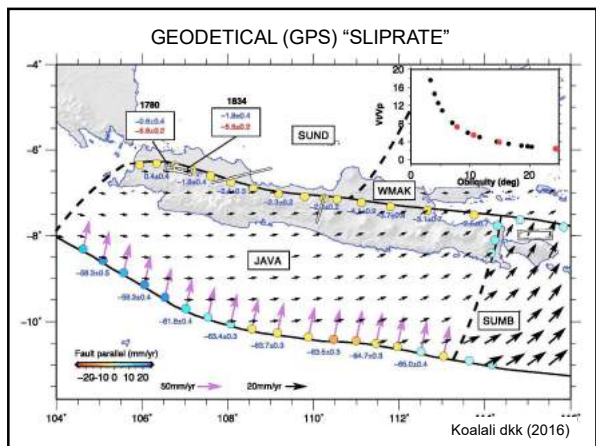


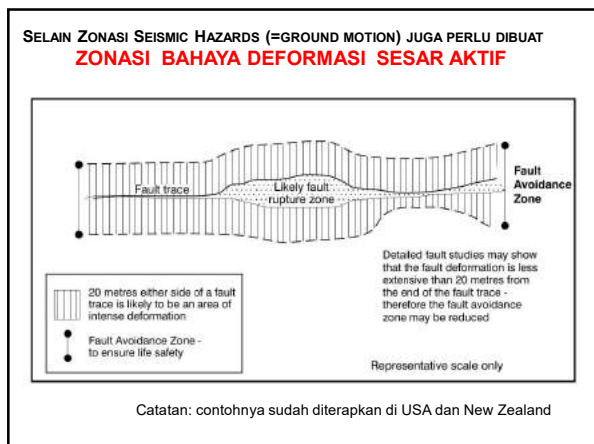
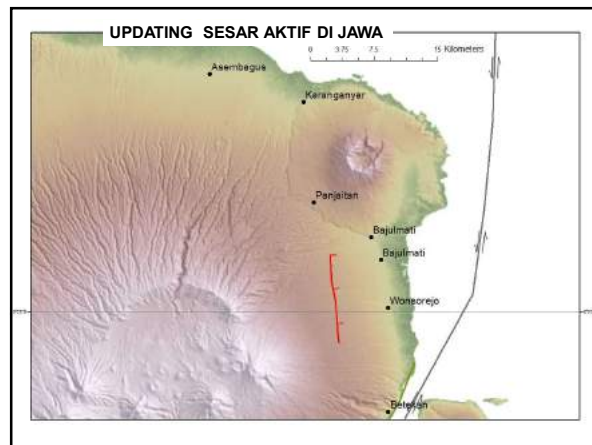
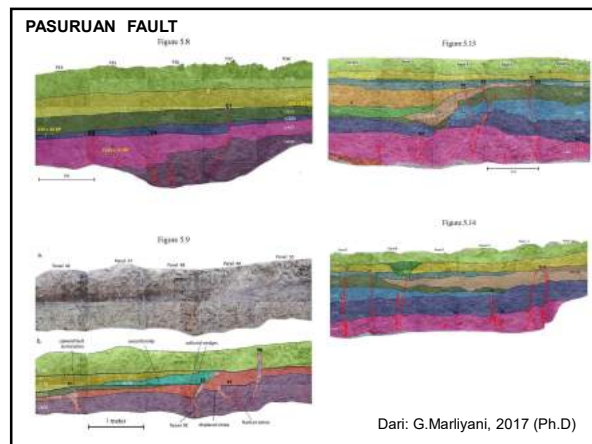
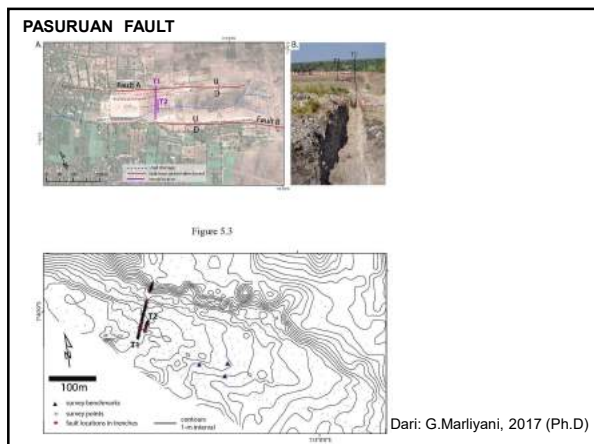












- KESIMPULAN DAN SARAN**
1. Banyak revisi input data lokasi jalur-jalur sesar aktif dan karakterisasinya sesuai dengan pengetahuan yang terkini. Banyak diantaranya merupakan jalur-jalur 'sesar baru' yang belum ada di Peta versi tahun 2010; Namun masih sangat banyak jalur-jalur sesar aktif yang memerlukan pendetilan pemetaan dan penelitian lebih lanjut, baik untuk yang sudah diperkirakan lokasinya ataupun yang mungkin belum diketahui sama sekali.
 2. Masih banyak parameter gempa sesar aktif, khususnya data *sliprate* (laju geser) dan data *paleoseismologi*, yang belum diketahui/diteliti. Oleh karena itu, penelitian harus dilanjutkan dengan lebih intensif dan komprehensif.
 3. Pemetaan dan penelitian jalur-jalur sesar aktif harus diprioritaskan untuk wilayah perkotaan, terlebih lagi untuk bangunan-bangunan besar atau instalasi vital
 4. Selain persyaratan konstruksi tahan guncangan gempa, juga harus memperhatikan lokasi jalur-jalur sesar aktif terkait dengan bahaya deformasi tanah dan likuifaksi.

KHUSUS SURABAYA - JATIM

1. Keberadaan Zona Lipatan-Sesar Kendeng dan Sesar Watukosek perlu mendapat perhatian khusus dan diteliti lebih lanjut.
2. Informasi lebih rinci yang diperlukan termasuk:
 - Pemetaan jalur patahan lebih rinci dan akurat
 - Pengukuran sliprate (tingkat keaktifan, frekuensi gempa)
 - Penentuan segmentasi sesar → maximum magnitude gempa dari masing-masing segmen sesar
3. Selain itu penambahan zona sesar aktif lain di Jawa Timur di wilayah Lengan Timur Jatim (Pasuruan – Bondowoso) juga cukup penting untuk diteliti dan ditindaki lebih lanjut.