

Instruksi Tugas berkelompok MK Kebencanaan Geologi

1. Carilah data gempa bumi dalam riwayat gempa bumi 100 tahun terakhir bersumber dari USGS. Luas kavling pengamatan memiliki luas minimal 20x20 km². (Boleh selain di Indonesia)
2. Identifikasilah
 - a. Frekuensi gempa bumi berdasarkan tipe gempa (dangkal, menengah, dan dalam)
 - b. Frekuensi gempa berdasarkan kejadian (Tipe Sesar, Subduksi, dst)
 - c.
3. Pilih salah satu gempa yang memiliki kejadian unik (cth gempa dengan magnitude > 7 mw dan memiliki korban jiwa terbesar), bahas mekanisme terjadinya gempa ini!
 - a. Pembahasan dapat berupa penjelasan moment tensor yang ada. Kaitkan dengan asal kejadiannya. Apakah akibat sesar atau subduksi
 - b. Bahas efek dari gempa bumi ini, apakah menimbulkan bencana geologi lain? Jelaskan
 - c. Periksa jumlah korban jiwa yang ada
 - d. Bagaimana lesson learn dari kejadian gempa ini?
4. Buatlah Laporan (dapat berupa draft paper) dan Presentasi dari Tugas ini. Dikumpulkan sebagai syarat Ujian Tengah Semester
5. Jangan lupa cantumkan refensi

Instructions for Group Tasks for Geological Disaster Course

1. Look for earthquake data in the history of earthquakes in the last 100 years sourced from USGS. The area of the observation lot has a minimum area of 20x20 km². (You can choose outside Indonesia)
2. Identify
 - a. Earthquake frequency based on earthquake type (shallow, medium, and deep)
 - b. Earthquake frequency based on occurrence (Fault Type, Subduction, etc.)
3. Choose an earthquake that has a unique occurrence (eg an earthquake with a magnitude > 7 mw and has the largest loss of life), discuss the mechanism of this earthquake!
 - a. The discussion can be in the form of an explanation of the existing moment tensor. Associate it with the origin of the incident. Is it due to fault or subduction?
 - b. Discuss the effects of this earthquake, does it cause another geological disaster? Explain
 - c. Check the number of fatalities that exist
 - d. How are lessons learned from this earthquake?
4. Make a Report (you can use draft-paper or manuscript journal format) and Presentation of this Assignment. Collected as a requirement for the Mid-Semester Exam
5. Don't forget to write down the refernces