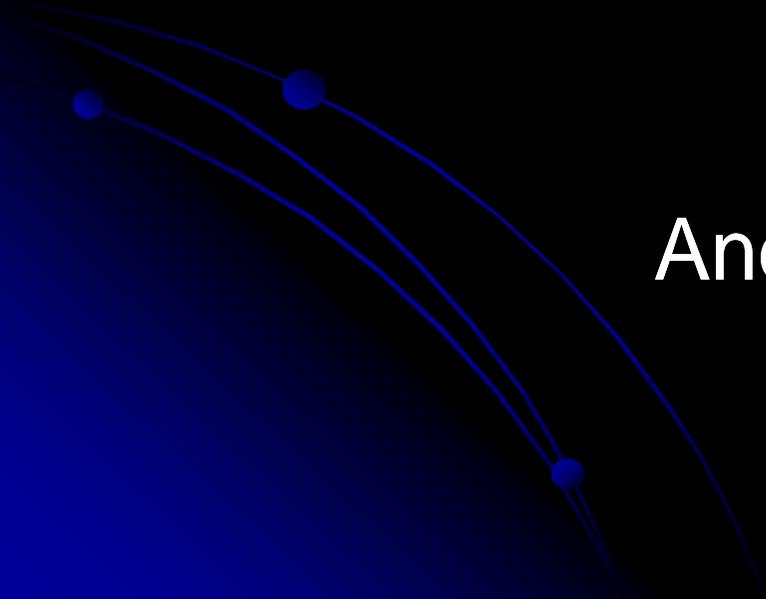


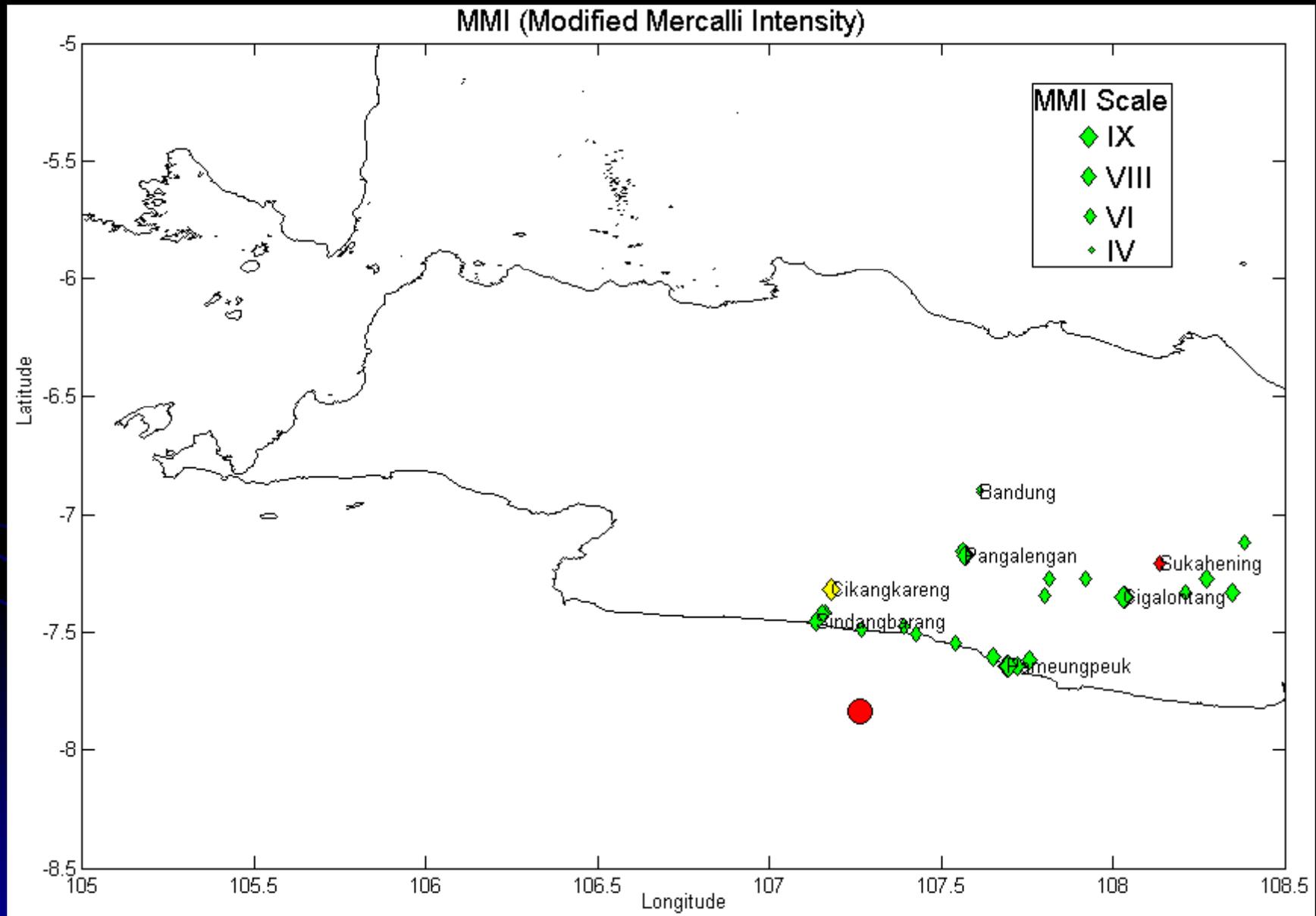
Mw 7.0 Tasikmalaya (Indonesia) Earthquake
September 2, 2009

Report on fieldwork of damaged area

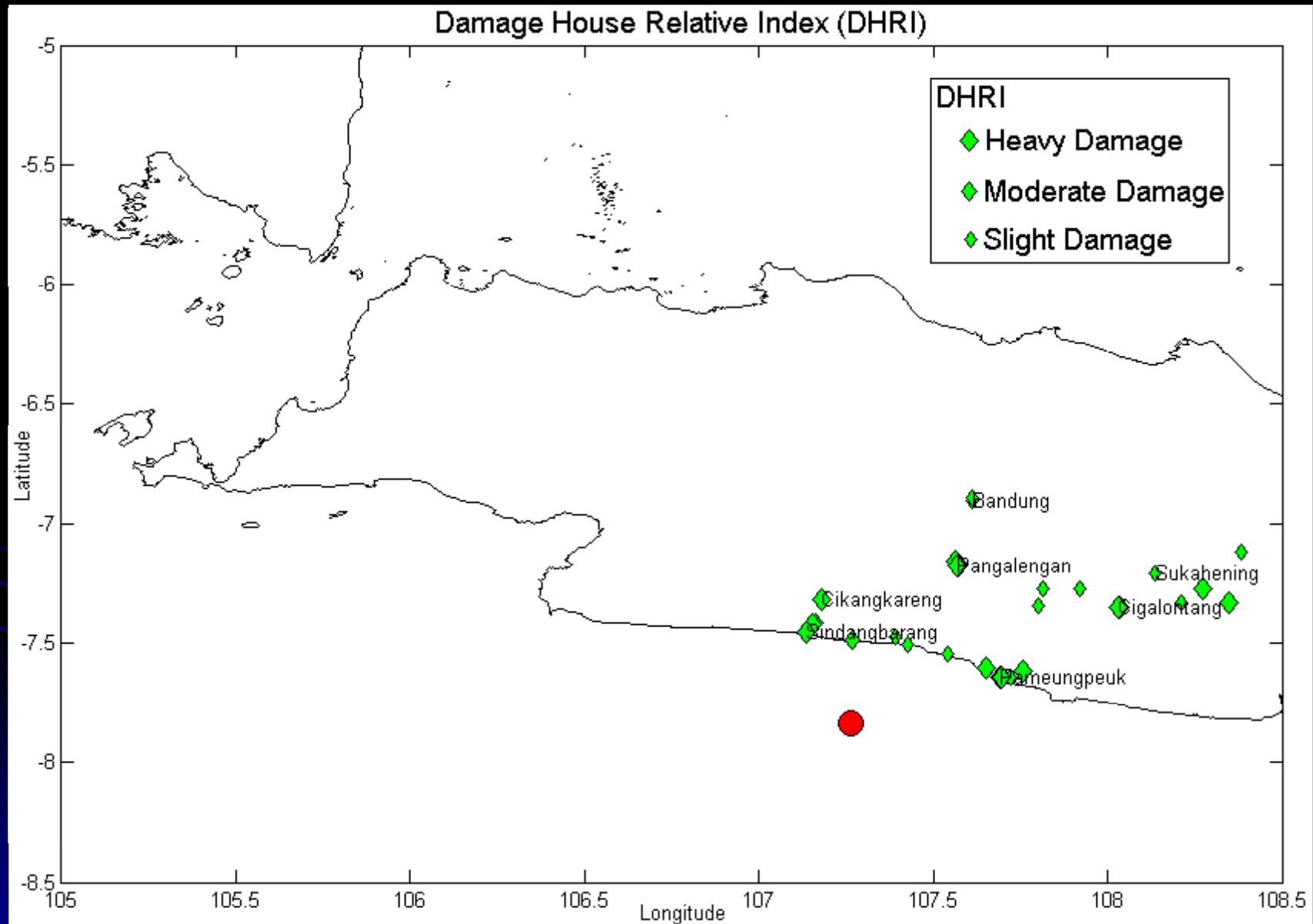


Andri Dian Nugraha
(Kyoto University)

Estimation of intensity map (MMI Scale) by the field work



Damaged house relative index (DHRI) estimated from the field work



Visited ITB



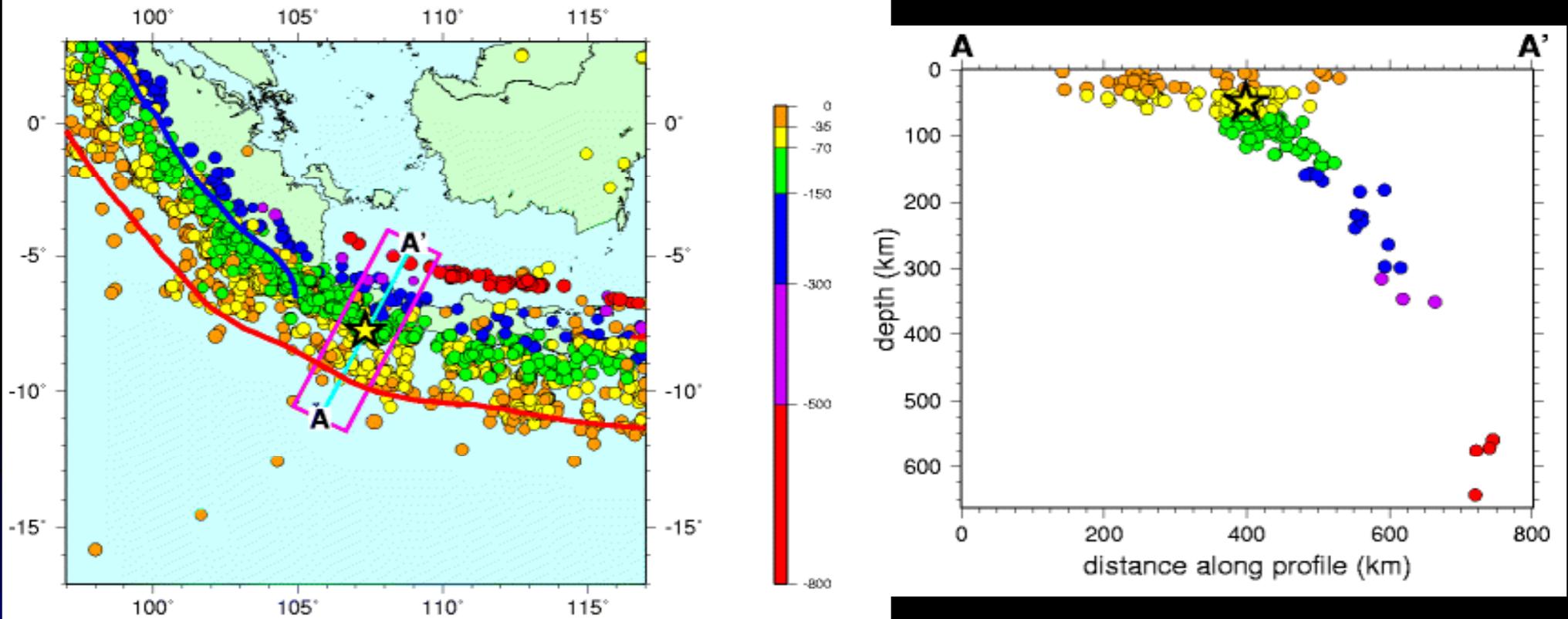
- Discuss with Prof Sri Widiyantoro and Afnimar PhD at Geophysics Group ITB before go to the fieldwork

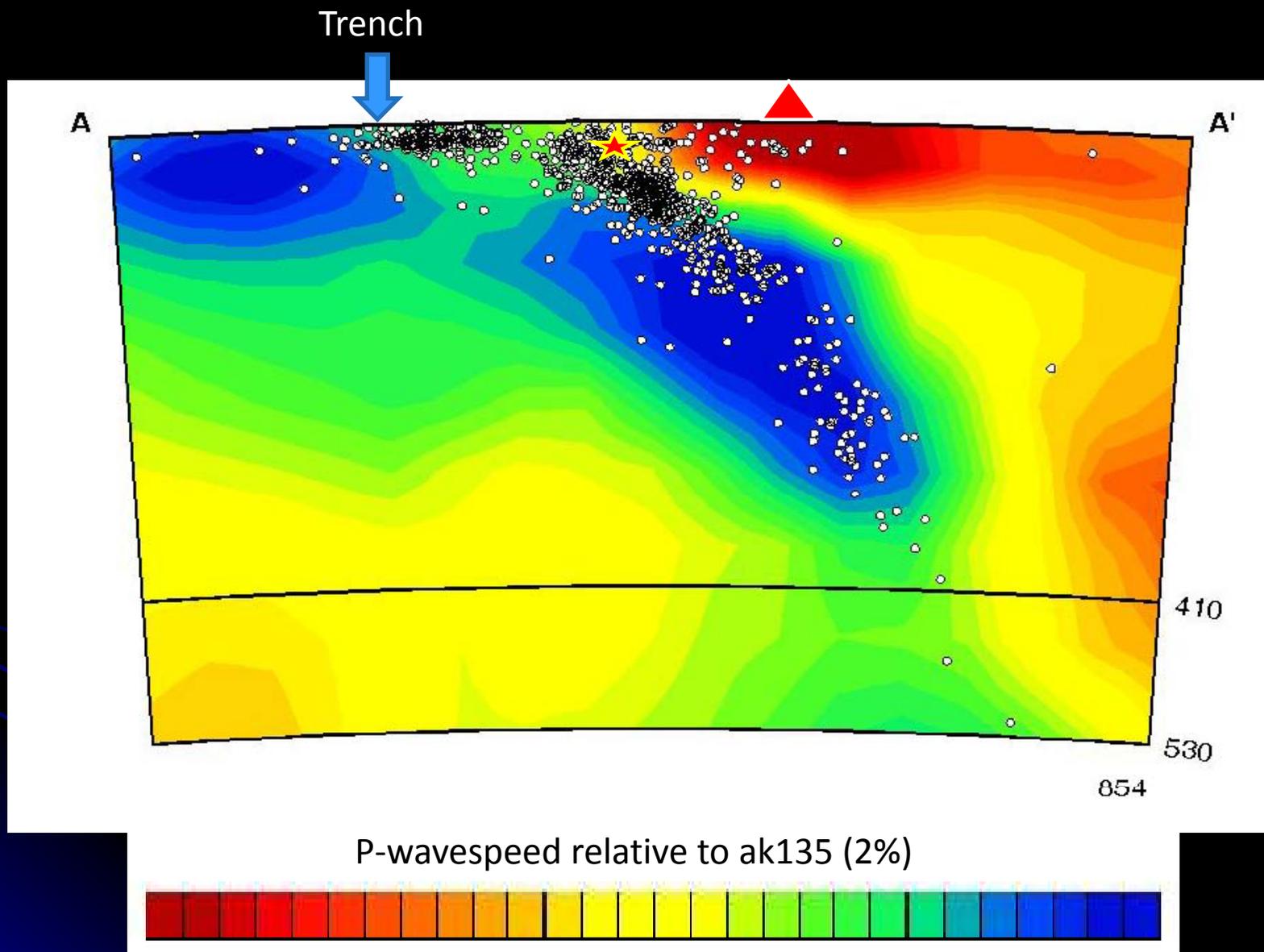
Visited ITB



- Discuss with Dr Irwan Meilano at Geodesy Group ITB before go to the fieldwork

Seismicity Cross Section



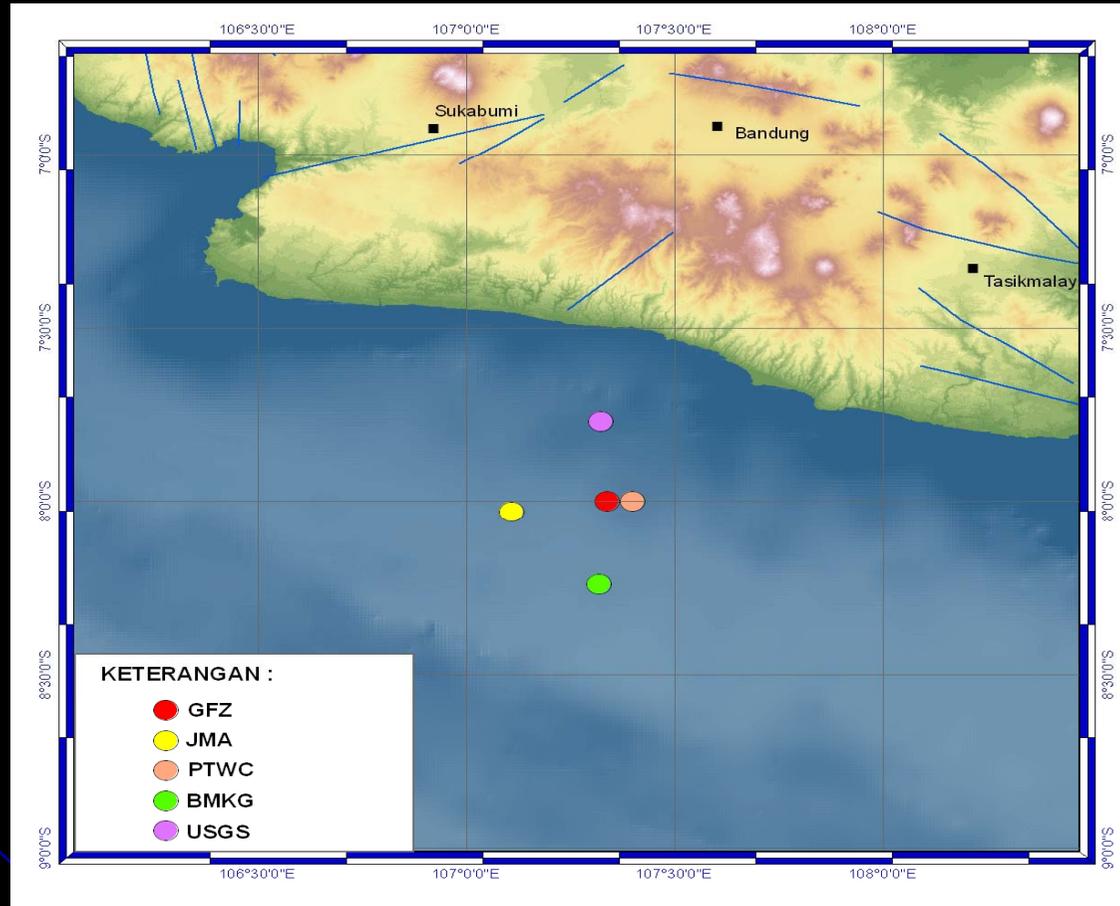


(Widiyantoro, 2009, In Preparation)

Time line Tsunami Early Warning of Mw 7.0 Eq Tasikmalaya

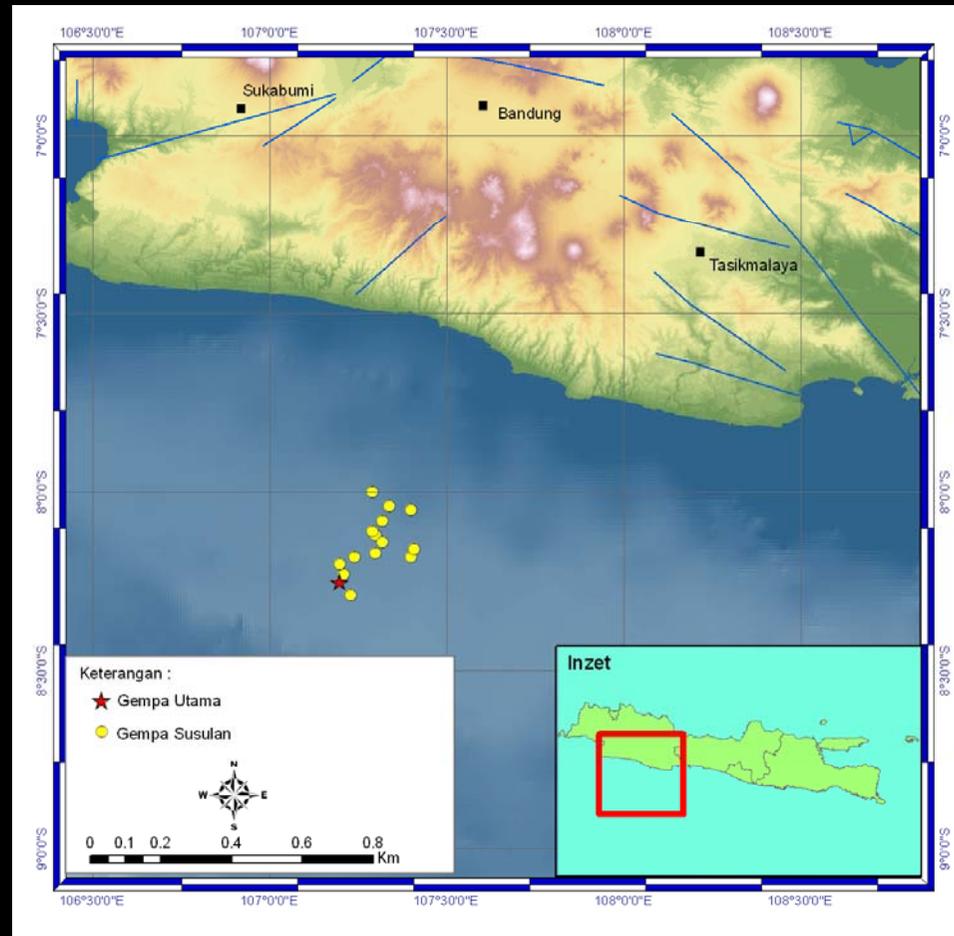
Waktu (WIB)	Interval Waktu (menit)	Time Line Gempabumi Tasikmalaya – Jawa Barat 02 September 2009
14:55:00	18:10:23	Terjadi Gempa bumi
14:55:22	0:00:22	Gempa dirasakan di gedung Operasional PGN
14:55:24	0:00:24	Live sinyal dan Stasiun Status Blinking (LEM, SKJI, CISI)
14:55:40	0:00:40	Info dirasakan di Jakarta IV MMI, Bandung II-III MMI, Tangerang II-III MMI
14:55:26	0:00:26	Start Interaktif Tool Seiscomp3
14:56:18	0:01:18	Hasil first location Seiscomp3 OT= 14:54:59 WIB, 8.25 LS – 107.3 BT Mag = 7.2 SR Kedlmn:10 km, yang diikuti bunyi Alarm
14:57:27	0:02:27	Update interaktif by Seiscomp3 OT= 14:55:00 WIB, 8.24 LS – 107.32 BT, Mag= 7.3 SR, Kedlmn = 30 km
14:57:32	0:02:32	Commit seiscomp3 OT= 14:55:00 WIB, 8.24 LS – 107.32 BT, Mag= 7.3 SR, Kedlmn = 30 km
14:57:39	0:02:39	Keputusan untuk kirim ke Disseminasi OT= 14:55:00 WIB, 8.24 LS – 107.32 BT, Mag= 7.3 SR, Kedlmn = 30 km
14:57:43	0:02:43	Export data ke desiminasi
14:58:44	0:03:44	Keputusan Diseminasi (OT= 14:55:00 WIB, 8.24 LS – 107.32 BT, Mag= 7.3 SR, Kedlmn = 30 km) berpotensi tsunami.
14:58:45	0:03:45	Mengecek email/ GTS dr PTWC dan JMA, web USGS
14:59:02	0:04:02	Geofon/Jerman; OT: 14:55:02 WIB, 8.00 LS – 107.34 BT Mag = 7.4 SR Ked:62 km
15:02:00	0:07:00	Email dari JMA/Jepang; OT: 14:55:01 WIB, 8.10 LS – 107.22 BT Mag M = 7.7 SR Ked:60 km
15:04:10	0:09:10	Telp ke Tasikmalaya tidak dapat dihubungi
15:04:15	0:09:15	USGS OT: 14:55:01 WIB, 7.770 LS – 107.324 BT Mwp = 7.0 SR Ked: 49.5 km
15:05:20	0:10:20	Lihat Focal Mechanism di http://172.19.3.126/~BMKG , sesar Gempa Tasikmalaya adalah sesar naik dengan kombinasi geser.
15:18:00	0:23:00	Terjadi Tsunami di Pelabuhan Ratu 16 cm di lihat di Tide gauge sta Pelabuhan Ratu
16:05:54	1:10:54	Warning tsunami gempa tasikmalaya dicabut.

Source: BADAN METEOROLOGI KLIMATOLOGI & GEOFISIKA (BMKG) INDONESIA



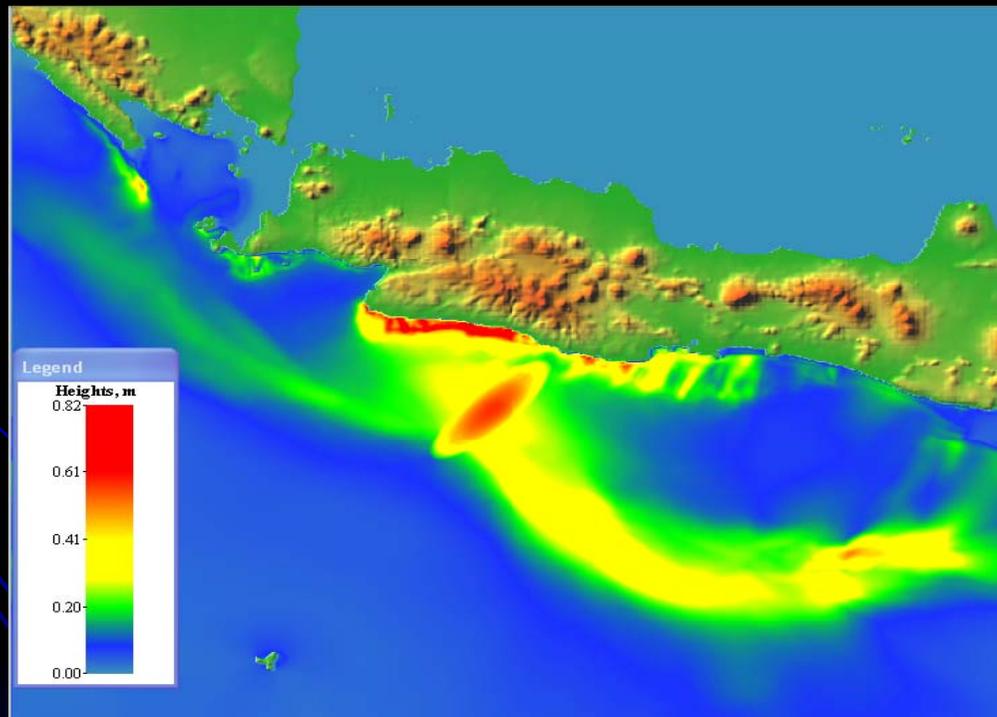
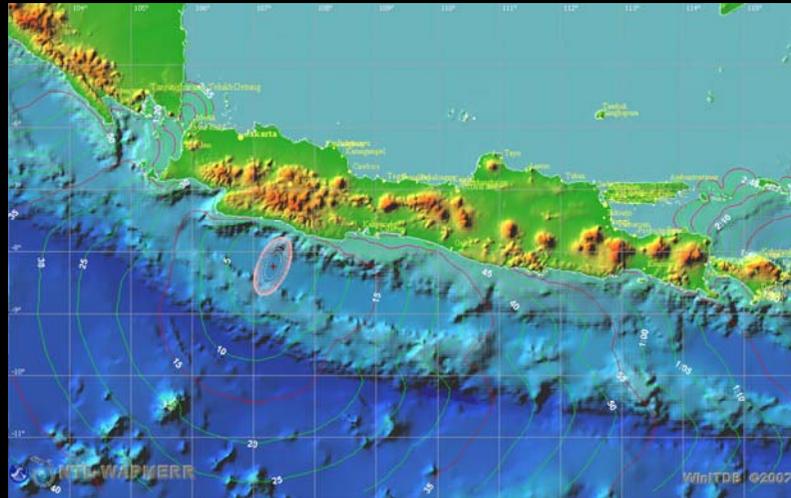
Source: BADAN METEOROLOGI KLIMATOLOGI & GEOFISIKA (BMKG) INDONESIA

Aftershock (September 3, 2009, 07.00 AM)



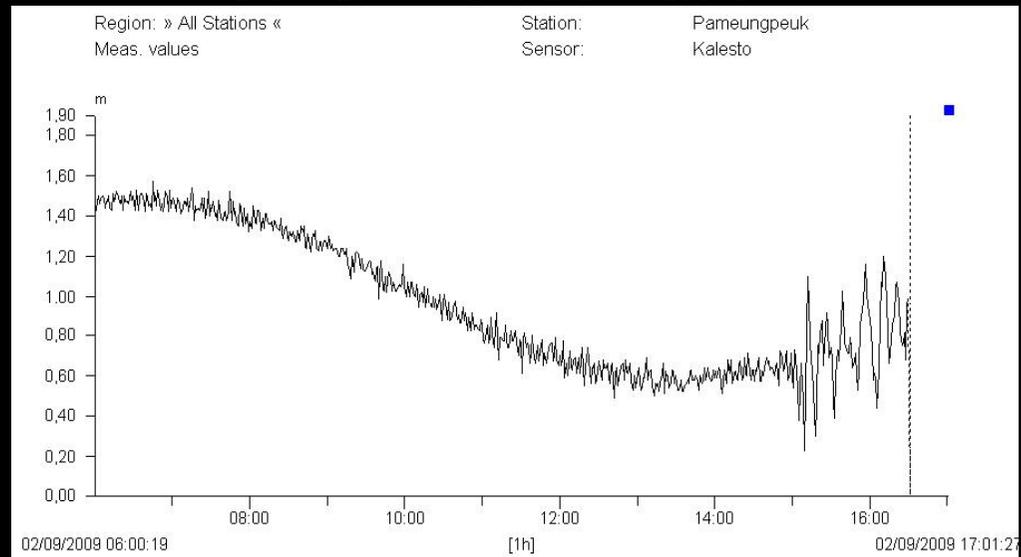
Source: BADAN METEOROLOGI KLIMATOLOGI & GEOFISIKA (BMKG) INDONESIA

Tsunami Modeling (Program Win ITDB)



Source: BADAN METEOROLOGI KLIMATOLOGI & GEOFISIKA (BMKG) INDONESIA

Tsunami Observation



Source: BADAN METEOROLOGI KLIMATOLOGI & GEOFISIKA (BMKG) & BAKOSURTANAL INDONESIA

Pangalengan, West Java



- Damaged House in Margamulya Pangalengan, West Java

Pangalengan, West Java



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Pangalengan, West Java



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Pangalengan, West Java



- Elementary School in Margamulya Pangalengan, West Java

Pangalengan, West Java



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Pangalengan, West Java



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- Damaged House near Pangalengan, West Java

Pangalengan, West Java



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- Volunteer and Charity for Earthquake Victims in Pangalengan, West Java

Pangalengan, West Java



- Damaged Junior and Senior High School in Pangalengan, West Java

Pangalengan, West Java



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- Damaged House in Pangalengan, West Java

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- Tents in Pangalengan, West Java

Pangalengan, West Java



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- Temporary Hospital in Pangalengan, West Java

Pangalengan, West Java



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- Temporary Hospital and Ambulance in Pangalengan, West Java

Pangalengan, West Java



- Charity for Earthquake Victim in Pangalengan, West Java

Pangalengan, West Java



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- Damaged House in Pangalengan, West Java

Cianjur, West Java



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- Access to Cianjur, West Java

Cianjur, West Java



- Access to Cianjur, West Java

Cianjur, West Java



- Cibinong-Cianjur, West Java

Landslide in Cikangkareng-Cianjur, West Java



- Access to Landslide Location in Cikangkareng-Cianjur, West Java

Landslide in Cikangkareng-Cianjur, West Java



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Landslide in Cikangkareng-Cianjur, West Java



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Landslide in Cikangkareng-Cianjur, West Java



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Landslide in Cikangkareng-Cianjur, West Java



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Landslide in Cikangkareng-Cianjur, West Java



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Landslide in Cikangkareng-Cianjur, West Java



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- Cikangkareng-Cianjur, West Java

Landslide in Cikangkareng-Cianjur, West Java



- Cikangkareng-Cianjur, West Java

Sindangbarang-Cianjur, West Java



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- Damaged Elementary School in Sindangbarang-Cianjur, West Java

Sindangbarang-Cianjur, West Java



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- Tents in Damaged Elementary School in Sindangbarang-Cianjur, West Java

Sindangbarang-Cianjur, West Java



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- Damaged Elementary School in Sindangbarang-Cianjur, West Java

Sindangbarang-Cianjur, West Java



- Damaged Houses in Girimukti-Sindangbarang-Cianjur, West Java

Sindangbarang-Cianjur, West Java



- Tents in Sindangbarang-Cianjur, West Java

Sindangbarang-Cianjur, West Java



- Damaged houses in Sindangbarang-Cianjur, West Java

Sindangbarang-Cianjur, West Java



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- Damaged houses in Sindangbarang-Cianjur, West Java

Sindangbarang-Cianjur, West Java



- Damaged houses in Sindangbarang-Cianjur, West Java

Sindangbarang-Cianjur, West Java



- Tents in Sindangbarang-Cianjur, West Java

Sindangbarang Cianjur to Pameungpeuk Garut, West Java



- Access from Sindangbarang Cianjur to Pameungpeuk Garut, West Java

Cikelet-Garut, West Java



- Damaged houses in Cikelet-Garut, West Java

Cikelet-Garut, West Java



- Damaged houses in Cikelet-Garut, West Java

Cikelet-Garut, West Java



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- Damaged houses in Cikelet-Garut, West Java

Cikelet-Garut, West Java



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- Damaged houses in Cikelet-Garut, West Java

Cikelet-Garut, West Java



- Damaged Mosque in Cikelet-Garut, West Java

Cikelet-Garut, West Java



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- Damaged House in Cikelet-Garut, West Java

Cikelet-Garut, West Java



- Damaged House in Cikelet-Garut, West Java

Cikelet-Garut, West Java



- Damaged House in Cikelet-Garut, West Java

Cikelet-Garut, West Java



- Damaged House in Cikelet-Garut, West Java

Cikelet-Garut, West Java



- Damaged House in Cikelet-Garut, West Java

Cikelet-Garut, West Java



- Damaged House in Cikelet-Garut, West Java

Cikelet-Garut, West Java



- Tents and Charity Base Camp in Cikelet-Garut, West Java

Cikelet-Garut, West Java



- Tents in Cikelet-Garut, West Java

Cikelet-Garut, West Java



- Damaged Houses in Cikelet-Garut, West Java

Pameungpeuk-Garut, West Java

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Cisompet-Garut, West Java



- Damaged Houses in Cisompet-Garut, West Java

Cisompet-Garut, West Java



- Damaged Houses in Cisompet-Garut, West Java

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- Damaged Senior High School in Cigalontang-Tasikmalaya, West Java

Jayapura-Cigalontang-Tasikmalaya, West Java

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- Tents in front of government building in Jayapura-Cigalontang-Tasikmalaya, West Java

Jayapura-Cigalontang-Tasikmalaya, West Java

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- Damaged Houses in Jayapura-Cigalontang-Tasikmalaya, West Java

Jayapura-Cigalontang-Tasikmalaya, West Java



- Damaged Houses in Jayapura-Cigalontang-Tasikmalaya, West Java

Jayapura-Cigalontang-Tasikmalaya, West Java



- Ground Crack in Jayapura-Cigalontang-Tasikmalaya, West Java

Jayapura-Cigalontang-Tasikmalaya, West Java



- Damaged House in Jayapura-Cigalontang-Tasikmalaya, West Java

Jayapura-Cigalontang-Tasikmalaya, West Java



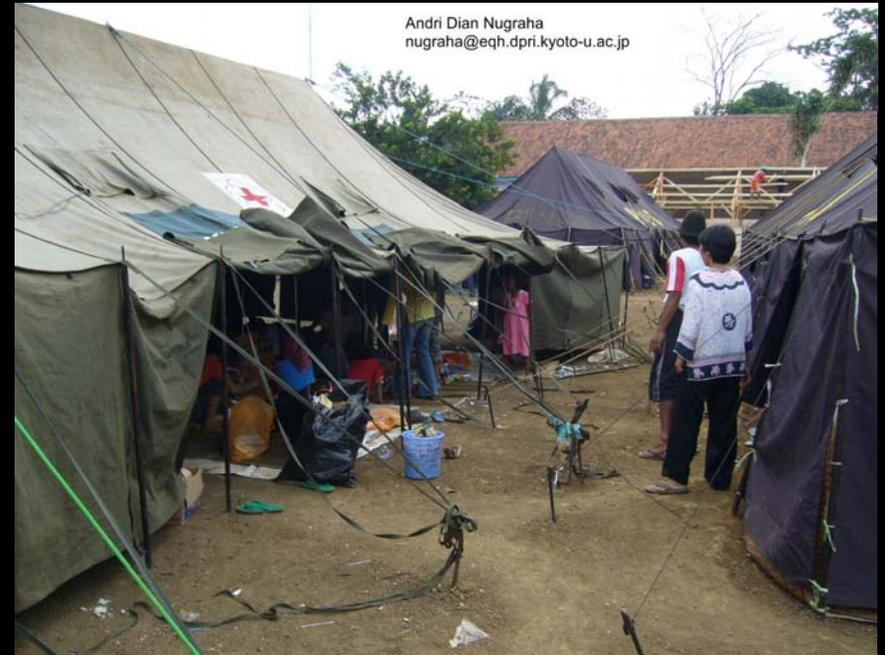
- Damaged House in Jayapura-Cigalontang-Tasikmalaya, West Java

Jayapura-Cigalontang-Tasikmalaya, West Java



- Tents and builds the temporary school in Jayapura-Cigalontang-Tasikmalaya

Jayapura-Cigalontang-Tasikmalaya, West Java



- Tents and temporary toilet in Jayapura-Cigalontang-Tasikmalaya

Jayapura-Cigalontang-Tasikmalaya, West Java



- Institutions or Companies who give donation in Jayapura-Cigalontang-Tasikmalaya

Jayapura-Cigalontang-Tasikmalaya, West Java

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- Damaged Yunion High School in Cigalontang-Tasikmalaya, West Java

Sukahening-Tasikmalaya, West Java



- Small Mud Volcano? in Sukahening-Tasikmalaya, West Java

Sukahening-Tasikmalaya, West Java



- Small Mud Volcano? in Sukahening-Tasikmalaya, West Java

Darmacaang-Cikoneng-Ciamis, West Java



- Damaged houses in Darmacaang-Cikoneng-Ciamis

Darmacaang-Cikoneng-Ciamis, West Java



- Damaged houses in Darmacaang-Cikoneng-Ciamis

Ciamis Kota, West Java



- Damaged houses in Lembur Situ - Ciamis Kota

Ciamis Kota, West Java



- Damaged houses in Lembur Situ - Ciamis Kota

Ciamis Kota, West Java



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- Damaged Bank (BRI) in Ciamis Kota