Preliminary Result of the 2006 West Java Tsunami Simulation

By Hamzah Latief[1,2)], Aditya Riadi[2)] and Dodi Zulkarnaen[2)]

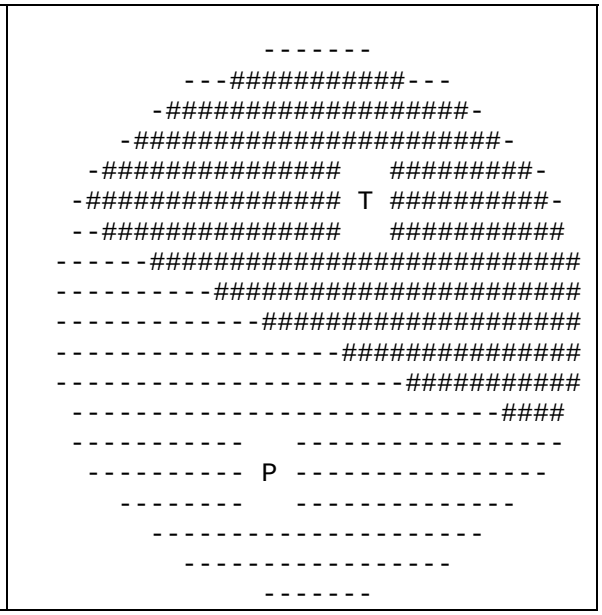
hamzah@geoph.itb.ac.id, adit@ppk.itb.ac.id, d_zulkarnaen@ppk.itb.ac.id

[1)]Dept. of Oceanography, Institute of Technology, Bandung, INDONESIA

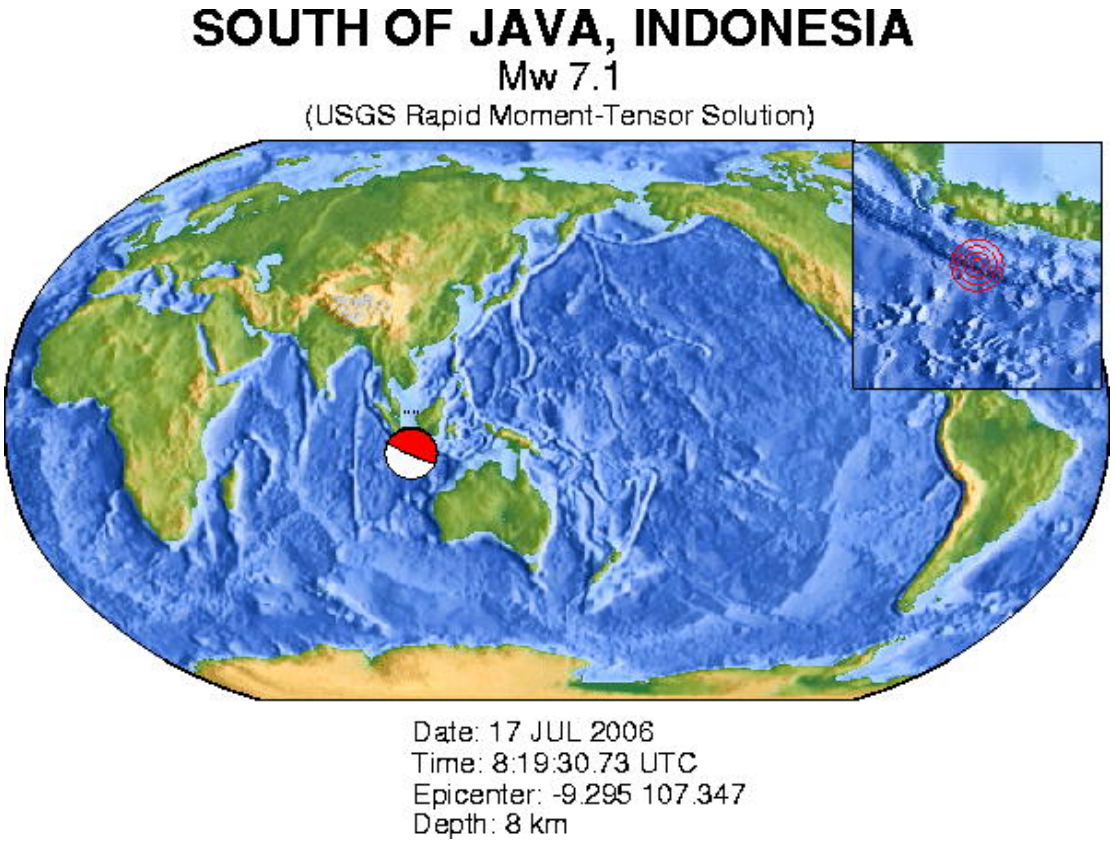
[2)]Tsunami research Group, Center for Coastal and Marine Development, Institute of Technology, Bandung, INDONESIA

The tsunami occurred at 15:19:30.73 (Loco time) (Simulation has been done at 17.56 after around 2.5 hours)

Field Report from eye witness , tsunami heights at Pangandaran:
- around 4 up to 6 m (Radio Elshinta)
- around 7 m and inundation around 300 m in land (by Phone to Hamzah from The Jakarta Post)

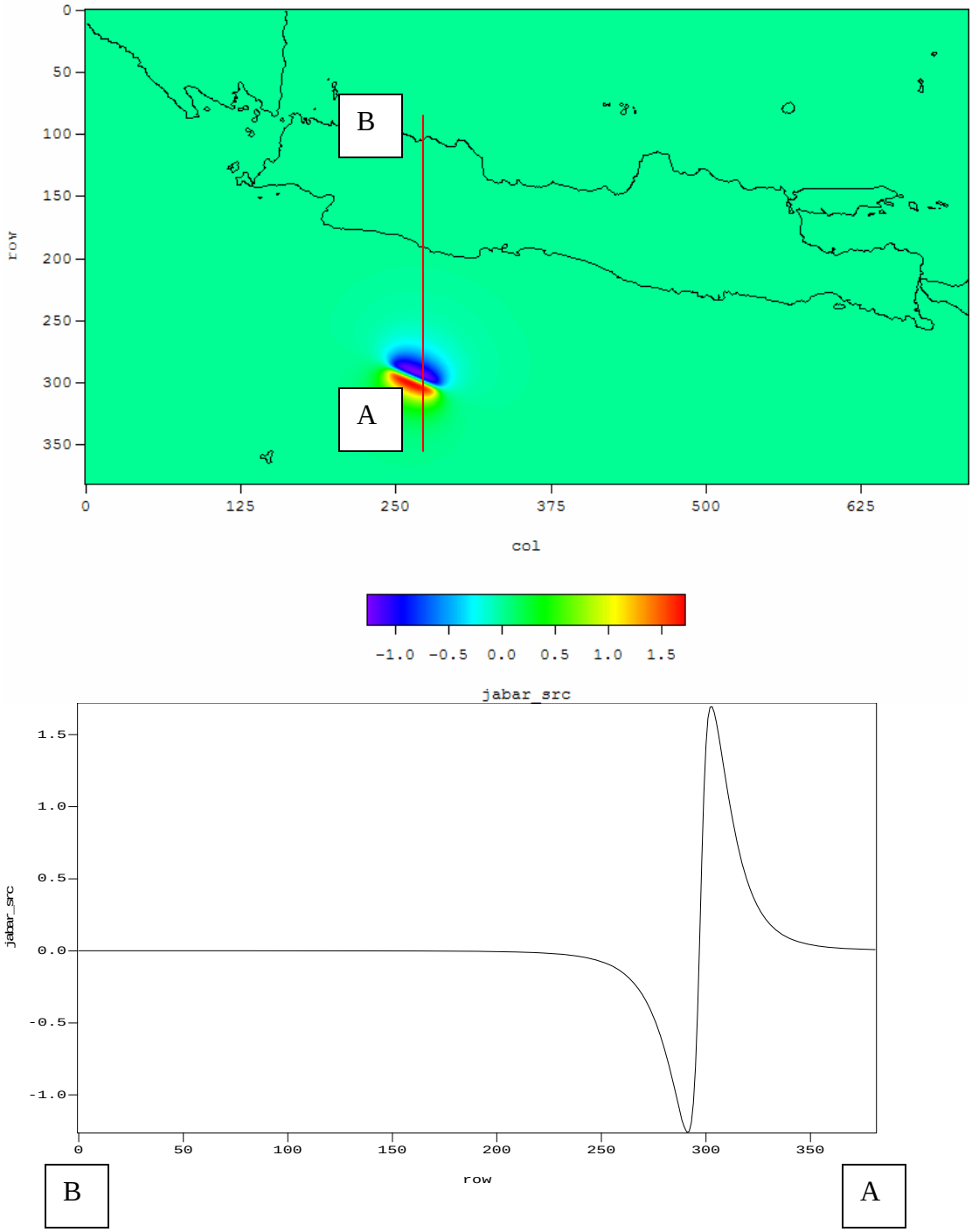
06/07/17 08:19:30.73 SOUTH OF JAVA, INDONESIA Epicenter: -9.295 107.347 MW 7.1 USGS MOMENT TENSOR SOLUTION Depth 8 No. of sta: 34 Moment Tensor; Scale 10**19 Nm Mrr= 1.08 Mtt=-1.55 Mpp= 0.47 Mrt= 5.48 Mrp=-2.37 Mtp= 0.64 Principal axes: T Val= 5.83 Plg=51 Azm= 27 N 0.62 3 293 P -6.44 38 201 Best Double Couple:Mo=6.1*10**19 NP1:Strike=270 Dip= 7 Slip= 67 NP2: 113 83 93	

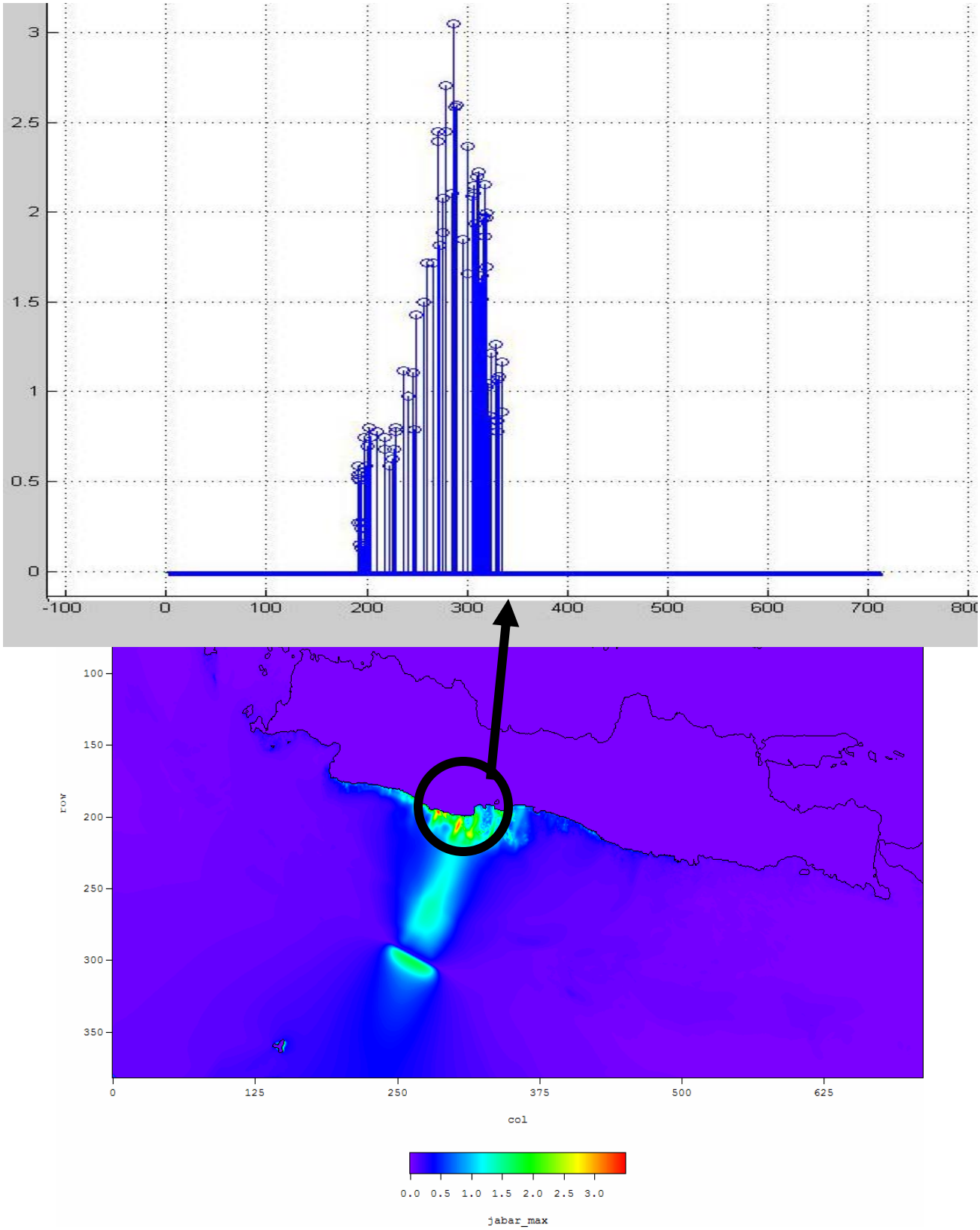
Rapid Engineering estimated of the Fault dimension are
W= 40 km
L= 80 km




UMATERA
ELATAN
GREATER SUNDA ISLANDS
BORNEO
Martapura
Kotabumi
SUMATRA
LAMPUNG
Tanjungkarang-Telukbetung
Java Sea
SUNDA
INDONESIA
JAVA ISLANDS
Jakarta
Depok
Kandanghaur
Sukabumi
Bandung
Tegal
Semarang
Tuban
Jampang-kulon
Tasikmalaya
Kawali
JAWA TENGAH
Surakarta
JAWA TIMUR
Surabaya
Sindangbarang
Purwokerto
Kediri
Yogyakarta
Probolinggo
Malang
Jember
Genteng
Epicenter
INDIAN OCEAN
Java Trench
4°
6°
8°
10°
12°

Preliminary Tsunami Source:





From simulation we found tsunami heights along the coast are around 3 – 4 meter.

Tsunami modeling will be update soon