When Giant Earthquake was happened, another important that we need to consider is the area of where possibility of aftershock will take a place. The most common method on how to estimate the above area of aftershock distribution could be deduced by understanding the pattern of static stress changing area using Coulomb Failure Function (CFF). Here I try to use a simple method on how to forecast the most probable the aftershock distribution area by means Static Strain Changing (SSC). It is simple approach of subtraction of predicted maximum shear strain with predicted dilatation. Day by day considering the agreement of present day aftershock and predicted by model, it seems that the above method to be good enough. On the basis of the above result, I suggest that hazard after main shock study needs to be considered more especially when we have a dramatic series of Giant event. Thus understanding long lasting after effect is necessary to be put as another important subject in seismic hazard study and analysis.
Understanding After Effect Along West Coast of Northern Sumatra: Tracing The Tail of Giant Thrust Earthquake After Effect

Area Where Most of After Effect Earthquake took a place

Effect of Sudden Strain Loading of Off West Coast on Simelue Island

Effect of Sudden Strain Loading of Nias EQ. on Simelue Island

Area Where Most of After Effect Earthquake took a place (March: 28th – April: 16th, 2005)

M6.8 of Mentawai (April 10th, 2005)

Static Strain Changing of Nias Giant Thrust

Static Strain Changing of West Coast Giant Thrust

All figures are produced by GeoSeis. Ver.2 (WT-2003, 2004, 2005)

Wahyu Triyoso; Geophysics & Met. Dept. FIKTM-ITB Bandung-Indonesia

Email: wahyu@geoph.itb.ac.id; wtriyoso@telkom.net

(W. Triyoso, April, 2005)
Simelue Island is hit by Giant Thrust twice, it seems to me that most long lasting earthquake after effect will take a place around that island (W. Triyoso, April, 2005)

Area Where Most of After Effect Earthquake took a place (March: 28th – April: 16th, 2005)

M6.8 of Mentawai (April 10th 2005)

M6.3 2005/04/28 (After EMSC)

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Static Strain Changing of Nias Giant Thrust
M6.8 of Mentawai (April 10th 2005)

Present day of Most After Effect seems to be took a place (April 25th 2005)

Area Where Most of After Effect Earthquake took a place (March: 28th – April: 16th, 2005)

M6.8 of Mentawai (April 10th 2005)

Seismicity Gap with Low Strain Loading

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Static Strain Changing of Nias Giant Thrust

Northern Sumatra Earthquake of 28 March 2005

(With Triyoso, April, 2005)
References

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