

# Mentawai Tsunami Survey

## Member

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## Tsunami Team (Group 1)

Tsunami inundation height and areas

Tsunami deposits

## Human Team (Groups 3 and 6)

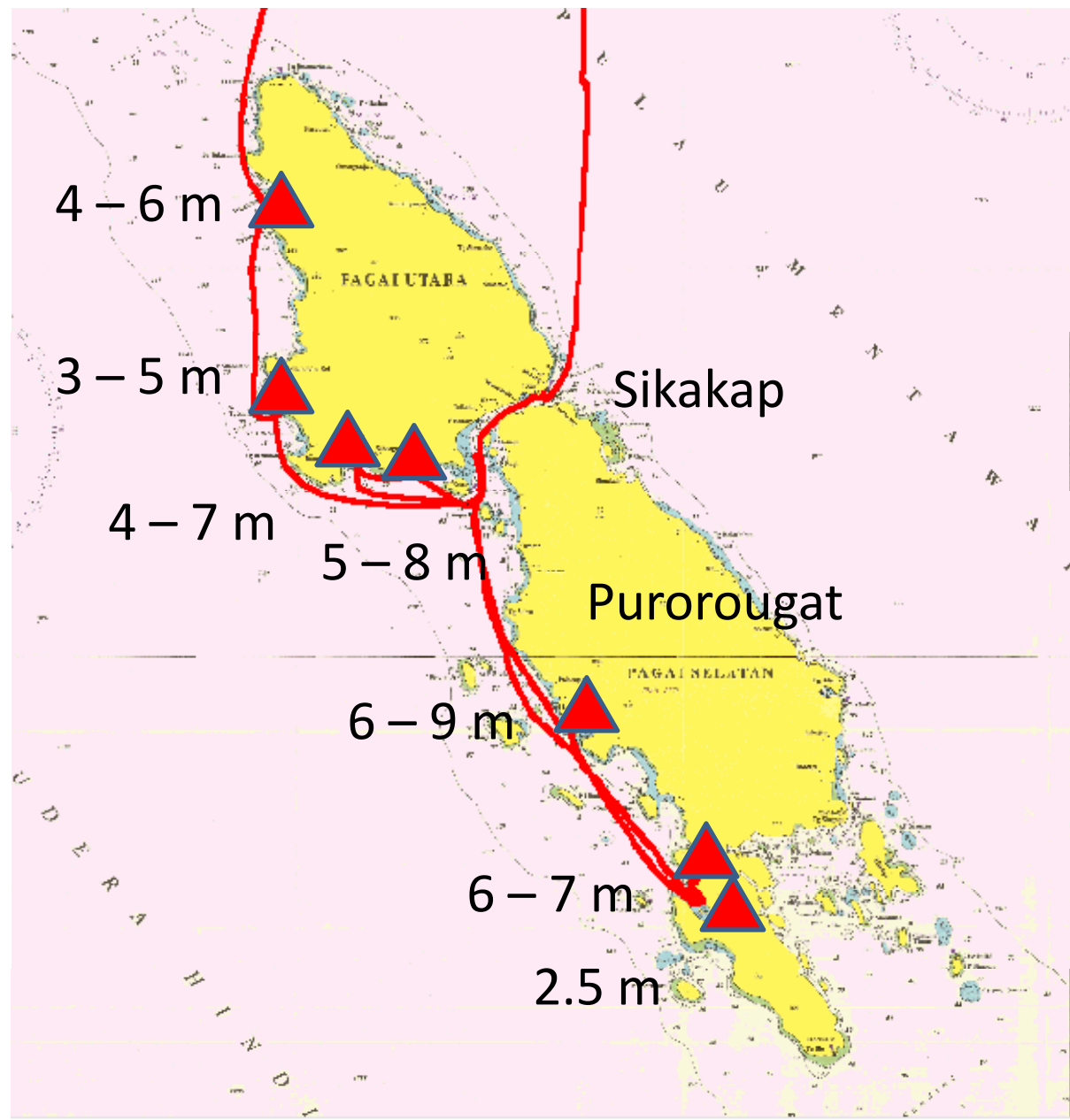
Interview to refugees, local government officials

Performance of Tsunami Early Warning (local people, govt)

# Summary Table

Location	Lat	Lon	Tsunami heights	Pop	Casualty
Tumalei	02-37	99-59	6.1, 5.5, 5.2, 4.7, 4.0	199	5
Macaronis resort	02-47	99-59	5.4, 4.9, 4.8, 3.8 3.0, 2.9 (water mark)	~20 visitors	1
Sabeuguggung	02-49	100-03	7.0, 5.8, 5.0, 4.3	258	123
Muntei	02-50	100-06	7.8, 5.7, 5.1, 4.6, 4.6, 4.6, 4.6	314	149
Muntei coast	02-50	100-06	8.8, 6.8, 4.5, 3.9		
Purorougat	03-02	100-14	5.5 (flow depth)	235	75
Asahan	03-02	100-15	6.4, 6.6, 9.3		0
Maonai	03-12	100-21	6.9, 6.8, 6.7, 6.3	177	53
Lakau	03-13	100-21	2.5		0

# Mentawai Tsunami Heights



# Some comments

1. Everybody felt the earthquake and many were awoken by shaking, but the ground shaking was weaker than the 2007 Bengkulu earthquake or the 2009 Padang earthquake. Because they did not cause tsunami damage, many did not expect tsunami.
2. The official tsunami warning from BMKG reached the Mentawai regency office, but did not reach coastal communities because of lack of communication tools.
3. Many coastal residents, however, were watching TV and saw running text of tsunami warning (5-20 min after eq.)
4. Many people heard loud sound of tsunami, then escaped to high land.
5. At some communities (such as Sabeugunggung or Muntei), nearly a half of villagers lost their lives. At other communities (such as Tumalei), there were very little casualties. Tsunami education, training and repeated drills were performed at Tumalei, and topographic conditions (high ground just behind the village) seem to make the dramatic difference on human casualty.
6. At Macaronis resort, foreign surfers escaped to 3-story tower and survived. The tower served as tsunami evacuation tower.
7. Emergency rescue activities, both by government and NGOs, were delayed due to bad weather (high waves) and limitation on transportation means.