Objective: Image Analysis of Tsunami Sand and Characterization.

Advantages:
Optical Imaging Technique can complement the traditional Sieving method as it is Fast, Simple and Accurate.
Analysis Possible: Shape, Size, Color………
Characterization of Grain Size less than 75 µm (Sieve Limit) is easily done (10 µm in present analysis).

Results of Image Analysis of Tsunami Sand Particles

Observation:
Sediment Type A (beach sediments or mixtures):
- Bigger Particle Size.
- More Dispersion.
- Less Colored.

Sediment Type B (tsunami deposits):
- Finer Particles.
- Uniformity in size distribution.
- More Colored Particles.

Conclusions:
The characterization by means of traditional and optical image analysis techniques of recent Tsunami deposits from Phra Phat Bay was carried out.

- Tsunami deposits can be clearly distinguished from beach sediments or mixtures.
- Tsunami deposits consists of substantially finer particles
  - Seem to be more spherical
  - Preliminary results suggest these deposits are richer in color

Further investigation needs to be carried out to better characterize fine-grained tsunami deposits so that eventually the results can be standardized for tsunami deposit characterization and modeling.