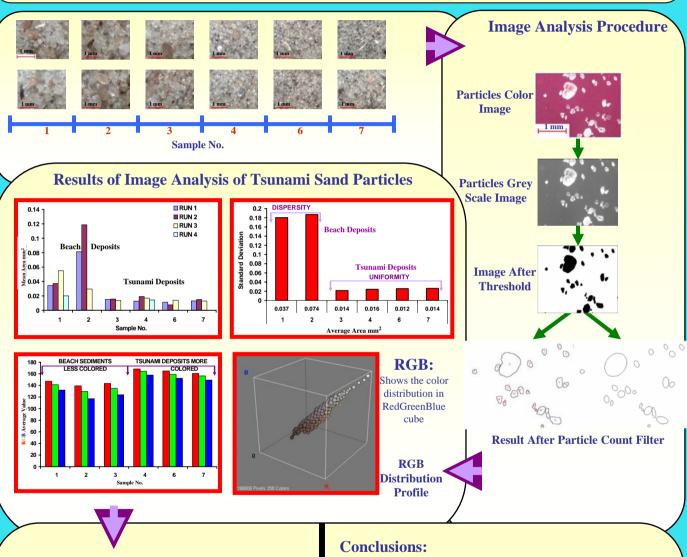


Objective: Image Analysis of Tsunami Sand and Characterization.

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).



Observation:

Sediment Type A (beach sediments or mixtures):

- Bigger Particle Size.
- More Dispersity.
- Less Colored.

Sediment Type B (tsunami deposits):

- Finer Particles.
- Uniformity in size distribution.
- More Colored Particles.

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.