AN EARTHQUAKE MEASURING SCALE

In this talk, a new seismic moment magnitude (Das Magnitude scale- M_{wg}) scale will be presented to extend the existing M_w scale to include lower and intermediate magnitudes in a global context emphasizing the use of body waves, particularly P waves, in which data are abundant. To improve upon the consistency of the M_w scale for a wider range, a uniform generalized seismic moment magnitude scale M_{wg} =Log M_o /1.36 –12.68, for magnitudes ≥ 4:5, has been developed, considering 25,708 global earthquake events having m_b and M_0 values from ISC and Global CMT databases, respectively, during the period 1976–2006. The M_{wg} scale is also valid for 3.5 ≤ m_b ≤ 7.0 because the relations between seismic moment and the magnitudes m_b and M_{wg} are same.

by

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WHEN

October 8, 2021 (Friday)
3:15 pm

WHERE

Meeting Room, ISI N-E Centre

Zoom link

ALL ARE CORDIALLY INVITED

Indian Statistical Institute
North-East Centre
Tezpur, Assam

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