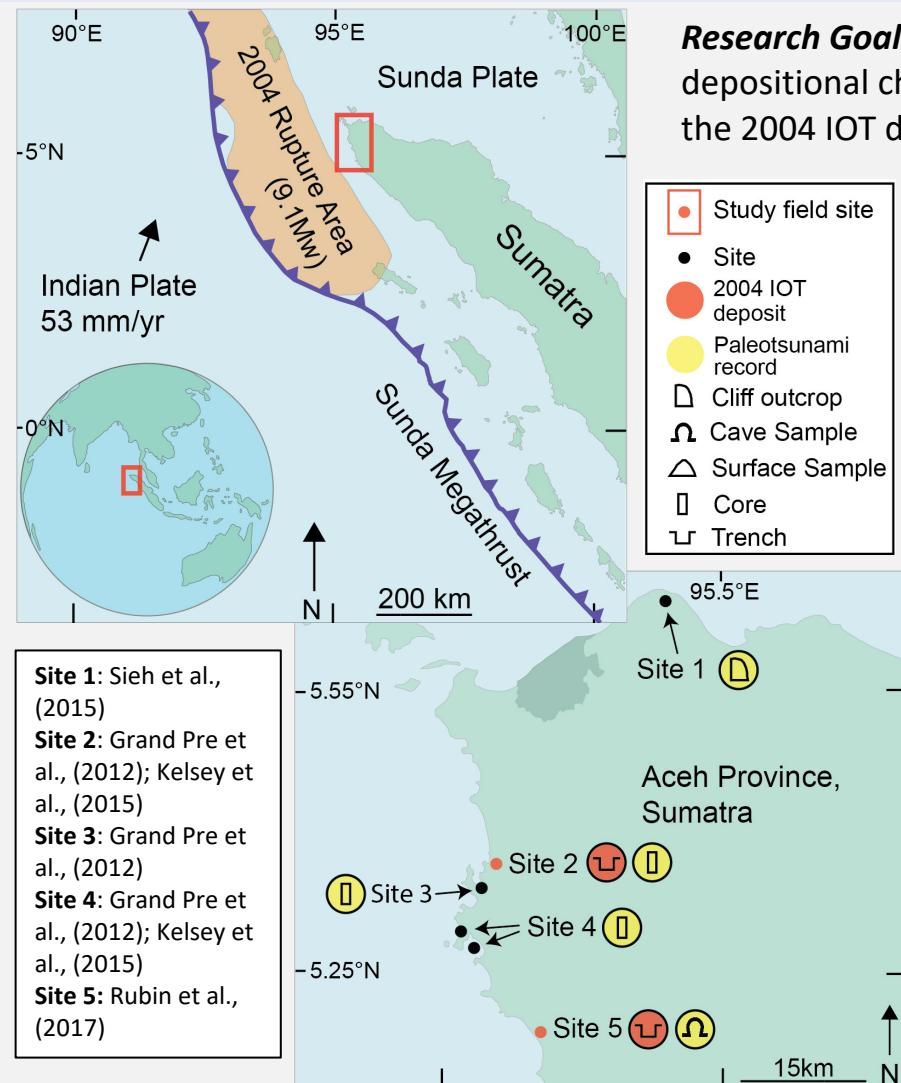


Assessing the rate of post-depositional change within the 2004 Indian Ocean tsunami deposit (IOT): implications for long-term records of paleotsunamis

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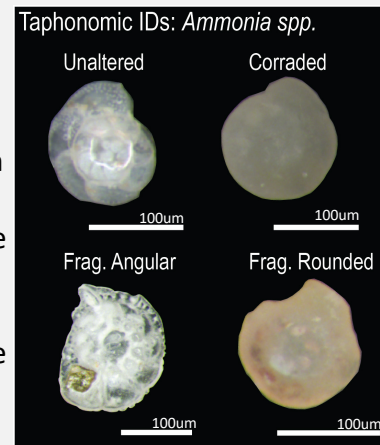


Research Goal: Quantify and compare the rate of post-depositional change within foraminiferal assemblages from the 2004 IOT deposit in Sumatra over a 15-year period

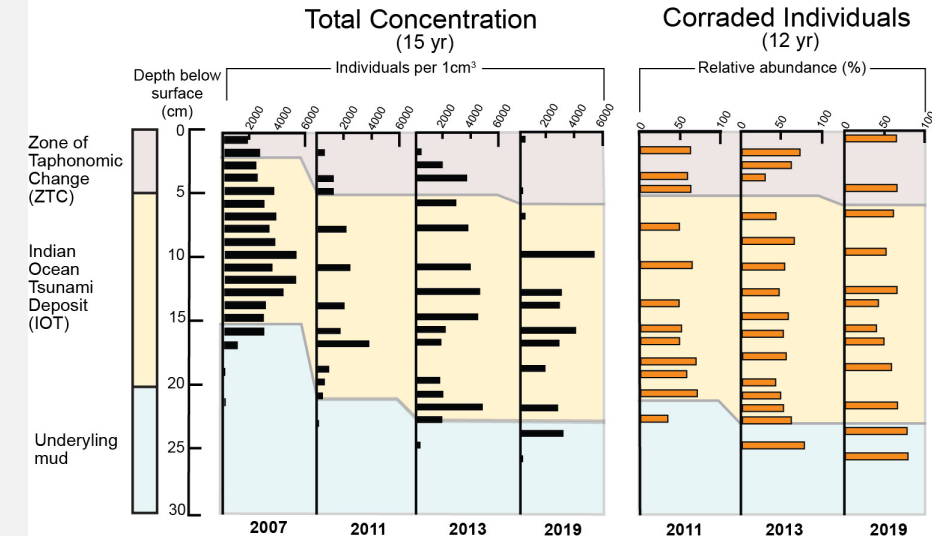
Pulot (site 2): sampled 2007, 2011, 2013, 2019



Parameters investigated in time series analysis
 --Total concentration of foraminifera
 --Relative abundance (%) of individual species
 --Relative abundance (%) of taphonomic categories



Changes in Pulot Foraminiferal Assemblage



Years	2007-2011	2011-2013	2013-2019
Percent difference in total concentration between yrs in ZTC (%)	-60.2%	+124%	-94.1%
Change of thickness of ZTC between years (cm)	+3cm	---	+1cm
Percent difference in total concentration between yrs in IOT (%)	-3.5%	-4.8%	-4.6%
Percent difference in relative abundance of corroded individuals between yrs in IOT (%)	---	+8.5%	+3.6%

--No significant net change of total concentration or % corroded individuals in IOT deposit (2007-2019)

--Significant net change of total concentration in upper depths (2007-2019) → indicates a **Zone of Taphonomic Change (ZTC)**