

## ECORD Summer School 2016 - Submarine geohazards: mapping, monitoring, modelling

	Monday 5th Sep	Tuesday 6th Sep	Wednesday 7th Sep	Thursday 8th Sep	Friday 9th Sep	Saturday
9:00 - 9:15	<b>Welcome &amp; Info &amp; Introduction</b> <i>Katrin Huhn, Dierk Hebbeln</i>	Revision of previous day's material by the participants	Revision of previous day's material by the participants	Revision of previous day's material by the participants	Revision of previous day's material by the participants	<b>Excursion</b> visit Climate House Bremerhaven <i>Huhn / Kuhlmann</i>
09:15 - 10:45	<b>Introductory lectures</b> Submarine geohazards: Earthquakes and tsunamis at Island arcs and continental margins <i>Seth Stein</i>	<b>Introductory lectures</b> Submarine geohazards: tsunamis <i>Sylfest Glimsdal / Carl Harbitz / Finn Lavholt</i>	<b>Mapping</b> Assessing and mitigating earthquakes and tsunami hazards at Island arcs and continental margins <i>Seth Stein</i>	<b>Mapping</b> Hydroacoustics and reflection seismics <i>Sebastian Krastel</i>	<b>Modelling</b> Submarine landslide modelling <i>Morelia Urlaub</i>	
10:45 - 11:00	coffee break	Group photo & coffee break	coffee break	coffee break	coffee break	
11:00 - 12:30	<b>Introductory lectures</b> Submarine geohazards: landslides & gravitational mass transport processes: an overview <i>Angelo Camerlenghi</i>	<b>Modelling</b> Tsunami modelling <i>Sylfest Glimsdal / Carl Harbitz / Finn Lavholt</i>	<b>Monitoring</b> New offshore monitoring tools <i>Martin Heesemann</i>	<b>Mapping</b> Excercise: Hydroacoustics and reflection seismics <i>Sebastian Krastel</i>	<b>Modelling</b> Failure mechanisms: fault zone and failure planes <i>Katrin Huhn</i>	
12:30 - 13:30	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	
13:30 - 15:00	<b>IODP &amp; ECORD:</b> Structure & objectives and intro to "Virtual Ship" <i>Ursula Röhl, Jochen Erbacher</i>	presentations by participants	presentations by participants	presentations by participants	presentations by participants	
15:00 - 15:15	coffee break	coffee break	coffee break	coffee break	coffee break	
15:15 - 18:00	<b>IODP core curation</b> <i>Holger Kuhlmann</i>	<b>Virtual Ship</b> Lab turn #1 Downhole logging <i>Erwan Le Ber</i>	<b>Intro - Lab turn #2:</b> Pore water geochemistry <i>Martin Kölling</i>	<b>Virtual Ship</b> Lab turn #2 and #3 in two rotating groups	<b>Virtual Ship</b> Lab turn #2, and #3 in two rotating groups	
	<b>Guided tour through MARUM &amp; IODP Bremen Core Repository</b> <i>Dierk Hebbeln, Ursula Röhl</i>		<b>Intro - Lab turn #3:</b> Modelling <i>Katrin Huhn</i>			
			presentations by participants			
18:00 - ....	ICEBREAKER					

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	Monday 12th Sep	Tuesday 13th Sep	Wednesday 14th Sep	Thursday 15th Sep	Friday 16th Sep
9:00 - 9:15	Revision of Friday's material by the participants	Revision of previous day's material by the participants	Revision of previous day's material by the participants	Revision of previous day's material by the participants	Revision of previous day's material by the participants
09:15 - 10:45	<b>Modelling</b> Seismology in analogue sandbox experiments <i>Michael Rudolf / Onno Oncken / Matthias Rosenau</i>	<b>Monitoring</b> Using IODP boreholes for long-term continuous observations (of deformation) in seismically active settings <i>Earl Davis &amp; Heiner Villinger</i>	<b>Monitoring</b> Early Warning Systems <i>Torsten Dahm</i>	<b>Monitoring</b> MeBo drilling, MeBo borehole logging and MeBo Corks <i>Katrin Huhn, Michael Strasser, Achim Kopf, Tim Freudenthal et al.</i>	<b>IODP proposal writing</b> <i>Ursula Röhl, Rüdiger Stein, Thomas Westerhold et al.</i>
10:45 - 11:00	coffee break	coffee break	coffee break	coffee break	coffee break
11:00 - 12:30	<b>Mapping</b> Tracking seismogenic and tsunamigenic slip across and along margins <i>Michael Strasser</i>	<b>Monitoring</b> Using IODP boreholes for long-term continuous observations (of deformation) in seismically active settings <i>Earl Davis &amp; Heiner Villinger</i>	<b>Monitoring</b> Marine geodesy <i>Heidrun Kopp</i>	<b>SUMMARY</b> <i>Katrin Huhn</i>	cont.
12:30 - 13:30	LUNCH	LUNCH	LUNCH	LUNCH	Wrap up
13:30 - 15:00	presentations by participants	<b>MARUM seminar</b> <i>Sean Gulick</i> IODP Exp. 364 Chicxulub Impact Crater	presentations by participants	presentations by participants	
15:00 - 15:15	coffee break	coffee break	coffee break	coffee break	
15:15 - 18:00	<b>Intro - Lab turn #4: Core description</b> <i>Rüdiger Stein</i>	<b>Virtual Ship</b> Lab turn #4, #5, and #6 in three rotating groups	<b>Virtual Ship</b> Lab turn #4, #5, and #6 in three rotating groups	<b>Virtual Ship</b> Lab turn #4, #5, and #6 in three rotating groups	
	<b>Intro - Lab turn #5: Interpretation of sediment structures &amp; processes</b> <i>Michael Strasser</i>				
	<b>Intro - Lab turn #6: Physical properties</b> <i>Matt Ikari, Jannis Kuhlmann</i>				
18:00 - ....				<b>BARBEQUE</b>	