

Public Customized Training Course on ‘Regional Quaternary Paleoclimatic and Paleoenvironmental Change’

(Venue : Ara room)

Date/Time	Program Description	Remarks
5.12 (Tue)	Registration and orientation	IS-Geo
09:50-10:00		
5.12 (Tue)	Modern aeolian environments	
10:00-11:00	Introduction: planetary wind system, aeolian transport	Dr. Jan-Berend Stuut
11:10-12:10	Climatic controls on dust generation and transport	
12:10-13:30	Lunch	
13:30-14:30	Case study: present-day Saharan dust [Stuut et al., 2005, <i>JGR</i> , see literature list]	
14:40-15:40	Exercise: HYSPLIT, introduction	
15:50-16:50	Exercise: HYSPLIT, backward trajectories	
17:00-18:00	Exercise: HYSPLIT, forward trajectories	
5.13 (Wed)	Past aeolian environments	
10:00-11:00	Case study: Late Quaternary Saharan dust [Mulitza et al., 2008, <i>Paleoceanography</i>]	Dr. Jan-Berend Stuut
11:10-12:10	Case study: Late Holocene Saharan dust [Mulitza et al., 2010, <i>Nature</i>]	
12:10-13:30	Lunch	
13:30-14:30	Case study: Provenance of Saharan dust [Meyer et al., 2011, <i>G³</i> & 2013, <i>Aeolian Res.</i>]	
14:40-15:40	Case study: Late Quaternary Namibian dust [Stuut et al., 2002, <i>Marine Geology</i>]	
15:50-16:50	Case study: Late Quaternary Australian dust [Stuut et al., 2014, <i>Quaternary Sc. Rev.</i>]	
17:00-18:00	Case study: Modern Australian dust storms [De Deckker et al., 2008, <i>G³</i> & 2014 <i>AR</i>]	
5.14 (Thu)	Ongoing dust studies & Eolian dust and millennial-scale climate change during the late Quaternary	
10:00-11:00	Modern Saharan dust: ongoing research at MARUM – Bremen, Germany	Dr. Jan-Berend Stuut
11:10-12:10	Transatlantic transport of Saharan dust: ongoing research at NIOZ, the Netherlands	
12:10-13:30	Lunch	
13:30-14:30	Regional environment of dust process in East Asia	Dr. Kana Nagashima
14:40-15:40	Provenance study of eolian dust –physical and chemical characters of quartz-	
15:50-16:50	Millennial-scale provenance changes of eolian dust in marine sediments	
5.15 (Fri)	High-resolution dust record from annually-laminated lake sediments	
10:00-11:00	Techniques for high-resolution study using lacustrine/marine sediments	Dr. Kana Nagashima
11:10-12:10	Regional environment of Lake Suigetsu	
12:10-13:30	Lunch	
13:30-14:30	How to extract eolian dust information from the lake sediments?	

※ The working language is English