

Welcome to Bremen!

Dear Staubtag participant,

Welcome!

We would like to welcome you to Bremen, and especially to this 4th German Staubtag that brings together international scientists in mineral-dust research from the marine, polar, and terrestrial realms, remote sensing, palaeoclimate modelling as well as atmospheric sciences. The workshop aims to stimulate exchange of ideas between dust scientists from all these different disciplines within the German community and to discuss recent developments in the understanding of the role of mineral dust in the earth system.

Background

After the first Leipziger Staubtag in 2014, it was decided to continue the success of bringing together the German dust community during a yearly one-day workshop. As a result, in 2015 and 2016 the 2nd and 3rd Leipziger Staubtage were organised. In 2016 it was then decided to keep the now established yearly workshop but also to try and find different hosts throughout the country which would alternate in organising the workshop. The German Staubtag was born! By having different hosts throughout the country organise the workshop, we hope that each Staubtag gets a tick different flavour, fed by the organising host. This year, the flavour will undoubtedly be marine since at MARUM – Center for Marine Environmental Sciences, dust is studied from a marine perspective.

Program

The latest developments and results will be presented in the shape of both oral presentations and posters. We aim to have a truly informal atmosphere in which discussion is stimulated. To this end, there is also a lot of room outside the formal program in social get togethers: not only will there be ample breaks in between the presentations, also on both Tuesday and Wednesday we booked typical Bremen restaurants to meet and catch up over a nice dinner. The coffee breaks are kindly sponsored by MARUM, all other social events, including the lunch break, are at the participants' own expense.

We look forward to this workshop and to hosting you in Bremen!

The organisers,

(local Staubtagers)

Ute Merkel

Jan-Berend Stuut

(Staubtag advisers)

Kerstin Schepanski

Konrad Kandler

Workshop Program

(21/11) 19. ⁰⁰	Dinner in “Bremer Ratskeller” (city center)	
(22/11)		
Time	Presenter	Title
9. ⁰⁰ – 9. ¹⁵	Organisers	Welcome
9. ¹⁵ – 10. ⁰⁰	Ina Tegen	Dust modelling: the trouble with scales
10. ⁰⁰ – 10. ¹⁵	Matthias Faust	Modelling of dust emissions from agricultural sources
10. ¹⁵ – 10. ³⁰	Sabine Egerer	Linking marine dust records to Saharan landscape evolution during the Holocene
10. ³⁰ – 10. ⁴⁵	Thomas Harrison	Variability of the dust-emitting low-level jet in the Central and Western Sahara
10. ⁴⁵ – 11. ¹⁵	Coffee break	
11. ¹⁵ – 11. ³⁰	Michèlle van der Does	Saharan dust deposition across the Atlantic Ocean controlled by precipitation
11. ³⁰ – 12. ¹⁵	Richard Washington	Ground-based observations from Etosha and Huab, Namibia
12. ¹⁵ – 12. ³⁰	Moritz Haarig	Deriving fine- and coarse mode fractions of dust plumes over Barbados from lidar m'nts
12. ³⁰ – 12. ⁴⁵	Margarita Vasquez	Study of the direct radiative fluxes of a dust outbreak during the SALTRACE campaign
12. ⁴⁵ – 13. ⁰⁰	Lunch break	
14. ⁰⁰ – 16. ⁰⁰	Poster session	
16. ⁰⁰ – 16. ¹⁵	Manuel Gutleben	Investigating the effect of long-range transported dust
16. ¹⁵ – 16. ³⁰	Dietrich Althausen	Asian dust over Central Asia: results from the Central Asian Dust Experiment (CADEX)
16. ³⁰ – 16. ⁴⁵	Ottmar Möhler	On the variability of the ice nucleation activity of soil dust aerosols
16. ⁴⁵ – 17. ⁰⁰	Konrad Kandler	Xmed-Dry: Cross-Mediterranean dry deposition measurement network – first results
17. ⁰⁰ – 17. ¹⁵	Short break	
17. ¹⁵ – 17. ³⁰	Jamie Banks	Sensitivity of SEVIRI desert dust RGB imagery to assumed dust optical properties
17. ³⁰ – 17. ⁴⁵	Bram Sanders	Desert dust outbreaks near West-Africa observed from space with SCIAMACHY
17. ⁴⁵ – 18. ⁰⁰	Jan-Berend Stuut	A 5.3 Myr history of aridity and monsoonal activity in northwestern Australia
18. ⁰⁰ – 18. ¹⁵	Helga van der Jagt	The ballasting effect of Saharan dust deposition on aggregate dynamics and C-export
18. ³⁰ -	Dinner in “Haus am Walde” (university campus)	

Poster presentations

Sarah Beuscher	End member modelling used for detecting Saharan dust in Eastern Mediterranean Sea sediments
Werner Ehrmann	Intensity of African Humid Periods estimated from Saharan dust fluxes
Stefanie Feuerstein	Characterisation of dust emission from alluvial sources and their implementation in dust emission models
Carmen Friese	Environmental factors controlling the seasonal variability in the particle-size distribution of modern Saharan dust deposited on- and offshore NW Africa
	AEROMET – Aerosol metrology for atmospheric science and air quality
Catarina Guerreiro	The role of Saharan dust on the coccolithophore export production in the tropical Atlantic: fertilisation or ballasting?
Ute Merkel	Mineral dust during the last glacial cycle – simulations within the PalMod project
Steffen Münch	Wind erosion - A pathway for the spread of antibiotic resistance?
Kerstin Schepanski	Harmattan, Saharan heat low, and West African monsoon circulation: modulations on the Saharan dust outflow towards the North Atlantic
Scarlett Trimborn	Iron Sources Modulate Southern Ocean Phytoplankton Responses To Ocean Acidification
Robert Wagner	Relevance of wildfires on dust emissions via interaction with near-surface wind pattern
Andebo Waza	A deposition measurement intercomparison campaign in a dust transport region (Tenerife)