

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) | |
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| (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'tmts |
| 12. ³⁰ – 12. ⁴⁵ | Margarita Vasquez | Study of the direct radiative fluxes of a dust outbreak during the SALTRACE campaign |
| 12. ⁴⁵ – 14. 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

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| 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) |