Welcome to AS2.10/CL2.21/CR3.7

Atmosphere - Cryosphere interaction with focus on transport, deposition and effects of dust, black carbon, and other aerosols

Conveners:

Pavla Dagsson Waldhauserova, Agricultural University of Iceland

Outi Meinander, Finnish Meteorological Institute

Biagio Di Mauro , University of Milano-Bicocca

Marie Dumont , Météo-France/CNR

Sólheimajökull, Iceland 2017

Chat room open: Monday, 4 May 2020, 10:45 – 12:30

- When you enter the chat room, please introduce yourself briefly and familiarise yourselves with the uploaded presentations (see the list on the right).
- We start with the discussions following the order of the abstracts. We will ask each presenter to summarise two to three key points from their display. When directing a question or comment to a display please include the name of the author with @. We look forward to chat with you. Let’s jointly shape digital conferences.

frontiers Research Topics

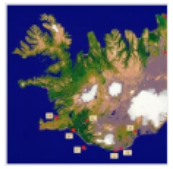
Light-Absorbing Impurities in Snow: A Personal and Historical Account

Stephen G. Warren

Review The ability of light-absorbing impurities (LAI) to darken snow had been known for decades, even inspiring practical applications, but quantification of the radiative forcing awaited radiative-transfer modeling in 1980 and measurement of soot in ...

Published on 11 January 2019
Front. Earth Sci. doi: 10.3389/feart.2018.00250

794 total views Altmetric 2



A 60 Year Examination of Dust Day Activity and Its Contributing Factors From Ten Icelandic Weather Stations From 1950 to 2009

Miye Nakashima and Pavla Dagsson-Waldhauserová

Contribution of Saharan Dust to Ion Deposition Loads of High Alpine Snow Packs in Austria (1987–2017)

Marion Greilinger , Gerhard Schauer, Kathrin Baumann-Stanzer, Paul Skomorowski, Wolfgang Schöner and Anne Kasper-Giebl

Research Topic

Atmosphere – Cryosphere Interaction in the Arctic, at High Latitudes and Mountains with Focus on Transport, Deposition and Effects of Dust, Black Carbon, and other Aerosols

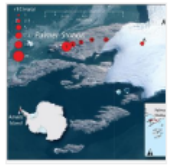
Can Volcanic Dust Suspended From Surface Soil and Deserts of Iceland Be Transferred to Central Balkan Similarly to African Dust (Sahara)?

Dragana Đorđević , Ivana Tošić , Sanja Sakan , Srđan Petrović, Jelena Đuričić-Milanković, David C. Finger and Pavla Dagsson-Waldhauserová

Original Research In this work we use chemical fingerprints as characteristics ratios of specific crustal elements Ca/Al, Fe/Al, K/Al, Mg/Al, Mn/Al, Ca/Fe, and Mg/Fe to investigate the long-range transport of volcanic aerosols from Iceland. Volcanic dust enters the

Articles

By Views By Type By Date



Local Emissions and Regional Wildfires Influence Refractory Black Carbon Observations Near Palmer Station, Antarctica

Alia L. Khan , Andrew G. Klein , Joseph M. Katich and Peng Xian

Original Research Antarctica is often regarded as the most pristine continent on Earth. However, local human activity can be significant point sources of production of contaminants, as well as light absorbing aerosols, such as black carbon (BC). In May 2015, over the

Mineralogical and Chemical Records of Icelandic Dust Sources Upon Ny-Ålesund (Svalbard Islands)

Beatrice Moroni , Olafur Arnalds , Pavla Dagsson-Waldhauserová , Stefano Crocchianti , Riccardo Vivani and David Cappelletti

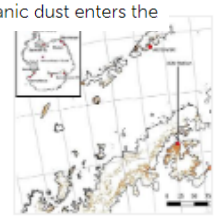
Comment 0

5 2

Quantifying the Potential for Low-Level Transport of Black Carbon Emissions from Cropland Burning in Russia to the Snow-Covered Arctic

Joanne V. Hall and Tatiana V. Loboda

VIEWS
22,301



Aerosol Concentrations in Relationship to Local Atmospheric Conditions on James Ross Island, Antarctica

Jan Kavan , Pavla Dagsson-Waldhauserova , Jean Baptiste Renard, Kamil Láska and Klára Ambrožová

Original Research Several important ice-free areas (e.g. Seymour Island, Cape Lamb on Vega Island, Terrapin Hill) are located in the region of Eastern Antarctic Peninsula. The largest deglaciated region can be found on the Ulu Peninsula, James Ross Island, where the ...

Published on 03 December 2018
Front. Earth Sci. doi: 10.3389/feart.2018.00207

753 total views Altmetric 3

Characterizing Atmospheric Transport Pathways to Antarctica and the Remote Southern Ocean Using Radon-222

Scott D. Chambers , Susanne Preunkert,