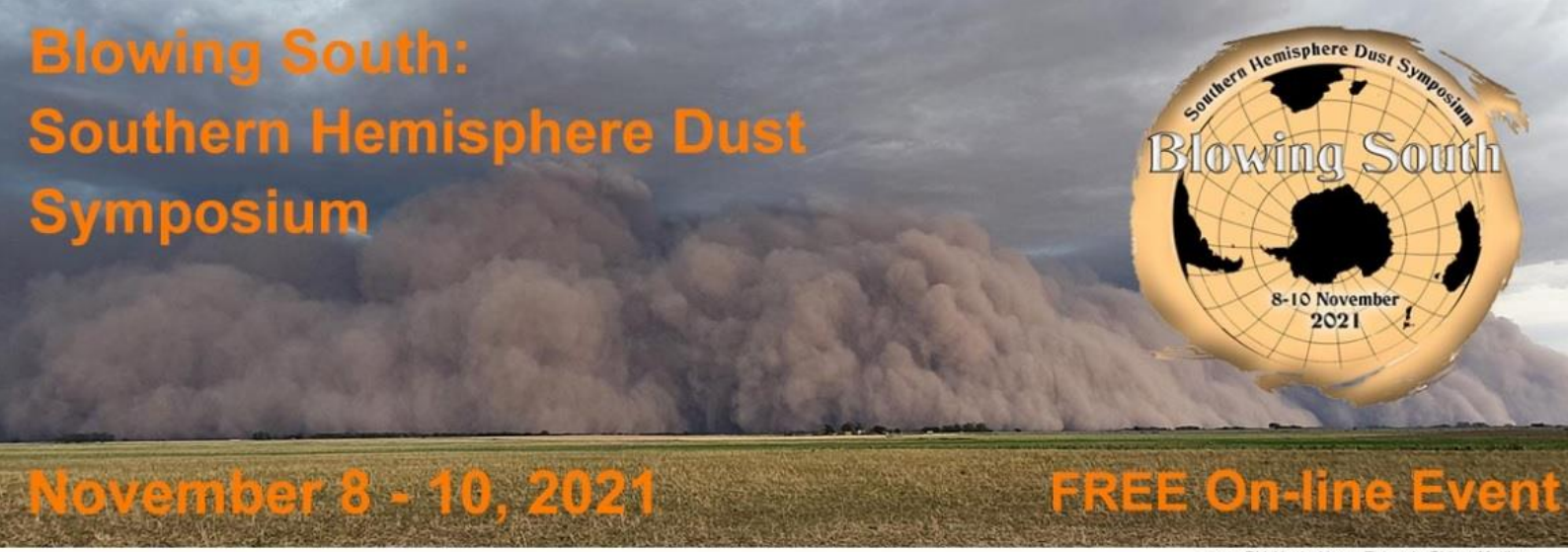

photo:PH Alexis Alaya, Estancia Chica, Metileo, La Pampa, Argentina, December 17, 2020

programme

MONDAY, 8 NOVEMBER 2021

Time UTC+0		
6.30	6.40	**Opening remarks**
Paleoclimate: Continental Proxies I		
6.40	7.10	**KEYNOTE** Examining the drivers of Australasian dust emissions: Contrasting the behaviour of the warm-arid and cold-wet Southern Hemisphere dust sources through time – **Speaker: Samuel Marx**
7.10	7.25	The age of dust—A new hydrological indicator in arid environments? – **Speaker: Paul Hesse**
7.25	7.40	Sulphur as a proxy for Southern Hemisphere westerly wind strength on sub-Antarctic Macquarie Island **– Speaker: Krystyna Saunders**
7.40	7.55	Reconstruction of atmospheric mineral dust and volcanic ash deposition in the Falkland Islands from a peat record **– Speaker: Eléonore Resongles**
7.55	8.10	Holocene dynamics of the Southern Hemisphere westerly winds: A depositional dust record from the Falkland Islands (Islas Malvinas) **– Speaker: James Tamhane**
8.10	8.25	Wind-blown dust and salt-spray concentrations reveal long-term correspondence between Southern Hemisphere Westerly wind intensity and temperature over the Southern Ocean **– Speaker: Alex Whittle**
8.25	8.40	**Discussion**
8.40	9.10	**Break**
Ocean Biogeochemistry I		
9.10	9.25	Dissolved titanium as a tracer for dust input in the Southern Hemisphere **– Speaker: Peter Croot**
9.25	9.40	Impact of desert and volcanic aerosol deposition on phytoplankton in the Southern Indian Ocean – **Speaker: Carla Geisen**
9.40	9.55	Atmospheric trace metal deposition in the oceans south of Southern Africa **– Speaker: Kaukurauce Ismael Kangueehi**
9.55	10.10	Aeolian dust and bioactive trace metals concentrations over the Indian Ocean **– Speaker: Ashwini Kumar**
10.10	10.25	Does the deposition of aeolian dust on the sea favor primary productivity? **– Speaker: Flavio Emiliano Paparazzo**
10.25	10.40	Influence of dust on the microbial food web in Nuevo Gulf (Patagonia, Argentina) **– Speaker: Joanna Paczkowska**
10.40	10.55	**Discussion**
10.55	11.25	**Break**

Present-day: Dynamics, Chemistry & Land Use		
11.25	11.40	Dust emission from the agricultural fields in the semi-arid Free State, South Africa, and the influence of crusts and soil cover **– Speaker: Heleen Vos**
11.40	11.55	Horizontal and vertical fluxes of particulate matter during wind erosion on arable land in the province La Pampa, Argentina **– Speaker: Roger Funk**
11.55	12.10	Highlights of the study on aeolian dust emitted from agricultural soils of Argentina **– Speaker: Juan Esteban Panebianco**
12.10	12.25	PM10 emission from feedlots in soils with different texture: Cattle trampling effect **– Speaker: Laura Andrea De Oro**
12.25	12.40	Carbon enrichment in particulate matter is affected by the interaction between soil type and management **– Speaker: Antonela Iturri**
12.40	12.55	Are sodium-rich dust inputs from shrinking lakes diminishing southern South American soil fertility? **– Speaker: Laura Gabriela Borda**
12.55	13.10	Low source-inherited iron solubility of South American dust limits fertilization potential of the southern oceans **– Speaker: Lucio Simonella**
13.10	13.25	Soil and dust characterization in an Atacama desert meridional transect **– Speaker: Charles González**
13.25	13.40	**Discussion**
13.40	14.25	**Break**
Paleoclimate: Ice Cores		
14.25	14.40	Dust cycle in Antarctica: insights from Holocene East Antarctic firn/ice core records and atmospheric dust measurements at Concordia Station **– Speaker: Bárbara Delmonte**
14.40	14.55	Mineral dust in the snow pits of the East Antarctic International Ice Sheet Traverse (EAIIST): preliminary results and perspectives **– Speaker: Claudio Antoni**
14.55	15.10	The role of Southern Africa in explaining the East Antarctica dust fingerprint during interglacial times **– Speaker: Stefania Gili**
15.10	15.25	REE-based reconstruction and quantification of dust flux provenances in East Antarctica over the Last Glacial-Interglacial Transition **– Speaker: Nadine Mattielli**
15.25	15.40	Giant dust in a tropical Andean glacier as a proxy of deep convection over the Altiplano **– Speaker: Filipe G. L. Lindau**
15.40	15.55	**Discussion**
15.55	16.00	**Closing remarks**

TUESDAY, 9 NOVEMBER 2021

Time UTC+0		
6.30	6.35	**Opening remarks**
Present-day: Chemistry & Clouds		
6.35	6.50	Towards evaluating the impacts on Namibian mineral dust on the regional ecosystems: new data on composition and long-range transport **– Speaker: Paola Formenti**
6.50	7.05	Is it dust or not? **– Speaker: Jost Heintzenberg**
7.05	7.20	TO BE CONFIRMED
7.20	7.35	Constraining dust-driven immersion freezing in climate models using spaceborne retrievals **– Speaker: Diego Villanueva**
7.35	7.50	**Discussion**
7.50	8.50	**Break**
Volcanic Ash Remobilization		
8.50	9.05	Aeolian remobilisation associated with the recent explosive activity of Sabancaya volcano in southern Peru **– Speaker: Allan Fries**
9.05	9.20	Aeolian remobilisation of volcanic ash: physical processes, particles and deposits in Southern volcanic terrains **– Speaker: Lucía Dominguez**

9.20	9.35	Ensemble modelling of wind-induced resuspension of volcanic ash in Patagonia **– Speaker: Eliana Sabrina Vazquez**
9.35	9.50	Impacts associated with aeolian remobilisation of volcanic ash: are they so different from those related to mineral dust? **– Speaker: Pablo Forte**
9.50	10.05	**Discussion**
10.05	11.20	**Break**
Paleoclimate: Continental Proxies II		
11.20	11.50	**KEYNOTE** Contributions to the study of southern hemisphere Late Pleistocene climatic variability through the characterization of South American dust sources and the related sedimentary deposits **– Speaker: Diego Gaiero**
11.50	12.20	**KEYNOTE** Late Cenozoic record of South American loess: tectonic and paleoclimatic implications **– Speaker: Marcelo Zárate**
12.20	12.35	Composition and origin of the sand fraction of surface sediments of the Pampean region: A review and a conception **– Speaker: Héctor Morrás**
12.35	12.50	Paleoenvironmental changes in southern South American dust sources recorded by clay minerals of the Pampean loess **– Speaker: Matías Romero**
12.50	13.05	Geochemistry of aeolian sediments recorded at Pampean Loess for the last glacial-interglacial transition: implications for provenance and climate variability **– Speaker: Gabriela Torre**
13.05	13.20	Minimum LGM Dust Deposition on the South American Loess and its Possible Relationship with a Coeval Maximum in Antarctica **– Speaker: Renata Coppo**
13.20	13.35	Unraveling mineral dust sources for the Western Amazon Basin during the last 7.5 kyrs B.P. **– Speaker: Juliana De Sousa Nogueira**
13.35	13.50	Southern Hemisphere westerly wind dynamics across the Pleistocene-Holocene transition as seen from the Falkland Islands, South Atlantic **– Speaker: Alistair Monteath**
13.50	14.05	**Discussion**
14.05	14.35	**Break**
Paleoclimate: General + Modelling		
14.35	14.50	Current Challenges and Recent Advances in Understanding the Paleoclimatic Dust Cycle **– Speaker: Fabrice Lambert**
14.50	15.05	ClimAG-Krigger: A new (paleo)Climatology-oriented toolbox for Anisotropic Global Kriging interpolation **– Speaker: Nicolás Cosentino**
15.05	15.20	Effect of iron from dust fluxes in the Glacial Southern Ocean **– Speaker: Juan Muglia**
15.20	15.35	Comparative view of the iron solubility impacts on ocean carbon stored during the Last Glacial Maximum and Holocene **– Speaker: Natalia Opazo**
15.35	15.50	**Discussion**
15.50	15.55	**Closing remarks**

WEDNESDAY, 10 NOVEMBER 2021

Time UTC+0		
6.30	6.35	**Opening remarks**
Ocean Biogeochemistry II		
6.35	7.05	**KEYNOTE** Biogeochemical impacts of dust deposition in the ocean **– Speaker: Cecile Guieu**
7.05	7.20	Simulating Size-resolved Atmospheric Dust Transport to Dronning Maud Land, Antarctica **– Speaker: Kevin Henson**
7.20	7.35	The impact of millennial scale climate change on the subantarctic Pacific during the last glacial **– Speaker: Harris Anderson**
7.35	7.50	Dust and fire, two distinct sources of essential nutrients (N, Fe) to the atmosphere? **– Speaker: Morgane Perron**

7.50	8.05	Lithogenic particle flux to the subantarctic Southern Ocean: a multi-tracer estimate using sediment trap samples **– Speaker: Christopher Traill**
8.05	8.20	Using thorium isotopes to quantify dust deposition to the Southern Ocean **– Speaker: Andrea Davies**
8.20	8.35	Phytoplankton community response to the deposition of wildfire aerosols **– Speaker: Jacob Weis**
8.35	8.50	**Discussion**
8.50	9.20	**Break**
Paleoclimate: Marine Sediment Cores		
9.20	9.50	**KEYNOTE** Late Quaternary paleoclimate records of southern-hemisphere drylands derived from deep-marine sediment archives **– Speaker: Jen-Berend Stuut**
9.50	10.00	**Break**
Present-day: Dynamics		
10.00	10.30	**KEYNOTE** Southern South America dust activity in relation to long range transport to Antarctica and the Southern Ocean **– Speaker: Santiago Gassó**
10.30	10.45	Regional and Local Mineral Dust Activity over South America **– Speaker: Damián Oyarzun**
10.45	11.00	Atmospheric deposition in the Atacama Desert: Mineral contribution and colonization of microorganisms in the hyperarid core **– Speaker: Franko Arenas-Díaz**
11.00	11.15	Dust concentration in San Jorge Gulf and adjacent shelf (Patagonia, Argentina) **– Speaker: Augusto Crespi-Abril**
11.15	11.30	Determination of provenance of aerosols by isotopic analysis and atmospheric modeling in the Atlantic and Southern Ocean **– Speaker: Elaine Alves Dos Santos**
11.30	11.45	Modern dust deposition over the South Atlantic Ocean from seafloor surface sediments **– Speaker: Michelle Van Der Does**
11.45	12.00	High latitude dust sources in Antarctica produce severe air pollution **– Speaker: Pavla Dagsson-Waldhauserova**
12.00	12.15	**Discussion**
12.15	12.45	**Break**
Paleoclimate: Marine Sediment Cores		
12.45	13.00	First glance at 5 Million years of dust input to the South Pacific **– Speaker: Gisela Winckler**
13.00	13.15	Radiometric dating confirms >450,000 years of climate-lithogenic flux connection at the Eastern Weddell Gyre/ACC boundary **– Speaker: Walter Geibert**
13.15	13.30	Systematic changes in South Pacific dust provenance during the last two glacial cycles **– Speaker: Torben Struve**
13.30	13.45	Marine sedimentary insights into a uniquely Pacific early Holocene dust peak at ~10 ka **– Speaker: Jennifer Middleton**
13.45	14.00	**Discussion**
14.00	14.10	**Closing remarks**