

Wednesday 22 March 2023

15:10	Wagner et al. (DWD), INVESTIGATION OF AEROSOL-CLOUD-RADIATION INTER-ACTION DURING DUST EPISODES IN THE GREATER ALPINE REGION
15:35	Coffee break, end of session III
16:00	Session IV: Environment and human health (Session Chair: Prof. Dr. Rudolf M. Huber (LRZ))
16:25	Baier et al. (DLR), PROJECT ALPAIREO: HEALTH RISK BY AIR POLLUTION AND THERMAL STRESS IN THE ALPS
16:50	Hierlmeier-Hackl (LfU), PROTECTALPS- PERSISTENT, BIOACCUMULATIVE AND TOXIC CHEMICALS IN WILD ALPINE INSECTS
17:15	Kloos et al. (TUM), ANALYZING THE IMPACT OF TIME AND WEATHER ON DAILY WINTER TOURIST NUMBERS IN THE BAVARIAN ALPS USING WEBCAM IMAGES
17:40	Knapp (SEVAN), THE SEVAN PARTICLE DETECTOR NETWORK
18:05	Ploc et al. (CAS), CONTRIBUTION OF HIGH-ENERGY ATMOSPHERIC PHENOMENA TO NATURAL RADIATION BACKGROUND ESTIMATED USING GASTRON: GAMMA SPECTROMETRY OF THUNDERSTORM RADIATION OBSERVATORY NETWORK
18:30	End of session IV
19:30	Side event – Conference Dinner, Hotel Hammersbach

Thursday 23 March 2023

09:00	Opening speech: ESA (Dr Christian Retscher)
	Session V: Alpine water cycle (Session Chair: PD Dr habil Sabine Wüst (DLR))
09:15	Groos et al. (FAU), MONITORING AND MODELLING ALPINE GLACIER CHANGE AT DIFFERENT SPATIAL AND TEMPORAL SCALES
09:40	Koch et al. (BOKU), OBSERVING CRYOSPHERIC AND HYDROLOGICAL PROCESSES AND STORAGES AT HIGH-ALPINE CATCHMENT SCALES BY A SUPERCONDUCTING GRAVIMETER AT THE TOP OF MT. ZUGSPITZE
10:05	Koehler et al. (DLR), THE POTENTIAL OF EARTH OBSERVATION TO ASSESS THE IMPACT OF CLIMATE CHANGE ON THE ALPINE SNOW LINE ELEVATION
10:30	Coffee break / Poster session with author presence
11:05	Zellner et al. (eurac), THE ALPINE DROUGHT OBSERVATORY: AN ALPINE WIDE OPERATIONAL DROUGHT MONITORING PLATFORM
11:30	Mejia-Aguilar et al. (eurac), IN-SITU AND PROXIMAL SENSING INFRASTRUCTURE FOR IMPROVED WATER RESOURCE MANAGEMENT
12:00	End of symposium / Lunch / Side event UFS
12:27	Departure rack railway – Station Hammersbach
13:28	Arrival Sonnalpin, Zugspitze
14:00 – 15:00 p.m.	Guided tour through the UFS
16:45	Last descent with the cable car from the summit Zugspitze (Individual departure)

VAO Coordinator and Chair of the VAO Board

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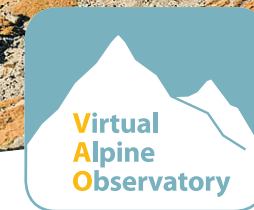
Registration

Please register at
www.vao.bayern.de
Deadline for registration is 26 February, 2023.
The number of participants is limited to 120 persons

Contact

Hosted by

Environmental Research Station
Schneefernerhaus GmbH (UFS)



Programme

6th VAO Symposium, 21–23 March 2023

VENUE

Berghotel Hammersbach
Kreuzeckweg 2–6
82491 Grainau
T. +49 8821 9830
www.haus-hammersbach.de



Umwelt
Forschungsstation
Schneefernerhaus

Tuesday 21 March 2023		
09:00	Arrival, welcome coffee & registration	
10:00	Welcome Notes: Dr Christian Barth, StMUV	
10:15	Key Note: Enhancing research in the Alpine regions to deliver on the European Green Deal (General Secretary Petr Blížkovský, CoR)	
10:30	Key Note: Destination Earth and opportunities for member states (Dr Christian Kirchsteiger, EU COM and Franka Kunz, DLR)	
11:00	Key Note: MRI/GEO Mountains (James Thornton)	
11:20	Key Note: VAO (Prof. Dr Bittner, UAU, DLR)	
11:40	Key Note: Space physics at observatory LOMNICKY STIT in Slovakia (Prof Dr Simon Mackovjak)	
12:00	Group Photo	
12:10	Lunch and coffee	12:20 – 16:30 Closed side event “Visit of UFS” (Departure cogwheel train: 12:27 p.m.)
13:00	Key Note: Climate-resilient Alps (Prof Dr Kunstmann, UAU, KIT)	
13:35	Session II: Climate impact on Alpine environment, hazards and risks (Session Chair: Prof Dr Markus Leuenberger (HFSJG))	
13:35	Barbosa et al. (LMU), EARLY IDENTIFICATION OF HOTSPOTS USING REMOTE SENSING TECHNOLOGIES WITHIN THE ALPSENSEPROJECT.	
14:00	Krautblatter et al. (TUM), ALPSENSE-RELY: CHALLENGING THE PREDICTABILITY OF CLIMATE-INDUCED IMPACTS ON ALPINE HAZARDS (STMUV PROJECT)	
14:25	Leinauer et al. (TUM), THE HOCHVOGEL OUTDOOR LABORATORY: DECIPHERING THE PREPARATORY PHASE OF ROCK FALLS	
14:50	Lindner et al. (LMU), SEISMIC MONITORING OF PERMAFROST AT MT. ZUGSPITZE	
15:15	Coffee break	
15:35	Session II cont’d (Session Chair: Prof. Dr Markus Leuenberger (HFSJG))	
16:00	Lucks et al. (TUM), MULTITEMPORAL CLUSTERING OF THERMAL IMAGES FOR ANALYSIS OF PERMAFROST OCCURRENCE IN STEEP ROCK WALLS	
16:25	Scandroglio et al. (TUM), CLIMATE CHANGE EFFECTS IN ALPINE PERMAFROST: 15 YEARS OF GEOELECTRICAL MONITORING IN THE KAMMSTOLLEN (ZUGSPITZE, D/A)	
16:50	Seehaus, Braun (FAU), MEASURING AND MODELLING MOUNTAIN GLACIERS AND ICE CAPS IN A CHANGINGCLIMATE (INTERNATIONAL DOCTORAL PROGRAM M³OCCA)	
17:15	Siegert et al (LMU), DEVELOPMENT OF AN EARLY WARNING SYSTEM FOR CLIMATE-INDUCED ALPINE HAZARDS. ALPSENSEPROJECT	
17:40	End of session II / Session III: Atmospheric and climatic variability (Session Chair: Dr Hannes Vogelmann (KIT))	
17:40	Bichler, Bittner (DLR), COMPARISON BETWEEN ECONOMIC GROWTH AND SATELLITE OBSERVATIONS OF NO2 POLLUTION OVER THE PO VALLEY	
18:05	End of session III (part 1)	

Wednesday 22 March 2023		
09:00	Opening speech: Alpine Convention (Secretary General Alenka Smerkolj)	
09:15	Session III cont'd: Atmospheric and climatic variability (part 2) (Session Chair: Dr Jaroslav Chum (CAS))	
09:15	Frischholz et al. (DLR), INFLUENCE OF PLANETARY WAVES IN THE TROPOSPHERE ON TEMPERATURE EXTREME EVENTS AT THE GROUND	
09:40	Wüst et al. (DLR), HYDROXYL AIRGLOW OBSERVATIONS FOR INVESTIGATING ATMOSPHERIC	
10:05	Hannawald et al. (DLR), 3D RECONSTRUCTION OF ATMOSPHERIC GRAVITY WAVES AND DERIVATION OF VERTICAL WAVE PARAMETERS WITH TOMOGRAPHY APPLIED TO DATA FROM TWO GROUND-BASED CAMERAS OBSERVING OH AIRGLOW	
10:30	Schmidt et al. (DLR), OBSERVATIONS OF OH AIRGLOW AT THE UFS SCHNEEFERNERHAUS:1) LONG-TERM DEVELOPMENT AND 2) ATMOSPHERIC WAVES RELATED TO THE HUNGA TONGA-HUNGA HAPAAI	
10:55	Vogelmann and Speidel (KIT), THE SAHARAN DUST EVENT IN MARCH 2022 AT MT. ZUGSPITZE FROM A LIDAR PERSPECTIVE	
11:10	Coffee break	
11:45	Nowak et al. (PSI), VOLATILITY OF ATMOSPHERIC ORGANIC AEROSOL DETECTED AT JUNGFRAUJOCH	
11:10	Baeni et al. (HFSJG), MEASUREMENTS OF CARBON DIOXIDE, CARBON MONOXIDE, AND AND METHANE CONCENTRATIONS IN THE ATMOSPHERE AT THE GIMMIZ WATER TOWER	
11:35	Chilingarian et al. (ASEC), ARAGATS SPACE ENVIRONMENTAL CENTER (ASEC)	
12:00	Leuenberger et al. (UNIBE), COMBINED OXYGEN AND CARBON DIOXIDE MEASUREMENTS AS TOOL FOR THE PARTITIONING OF CARBON DIOXIDE EMISSIONS AMONG THE CARBON POOLS ATMOSPHERE, BIOSPHERE AND OCEAN	
12:25	Chum et al. (CAS), SOLAR CYCLE AND LIGHTNING ACTIVITY	
12:50	Steinbacher et al. (EMPA), ATMOSPHERIC TRACE GAS IN-SITU OBSERVATIONS AT JUNGFRAUJOCH - BENEFITS AND CHALLENGES OF SERVING MULTIPLE PROGRAMMES	
13:15	Lunch	
14:15	Poster session with author presence	13:30 – 14:30 Closed Side-meeting VAO Board
	Crespi et al. (eurac), X-RISK-CC: HOW TO ADAPT TO CHANGING WEATHER Extremes	
	Flentje et al. (DWD), IDENTIFICATION AND MONITORING OF SAHARAN DUST	
	Sedlmeier et al. (DWD), TREASURE HUNTING OF SCIENCE: HISTORICAL DATASET FOR THE BERCHTESGADEN NATIONAL PARK	
	Krapp et al. (LfU), PESTICIDES IN THE DEPOSITION AT ENVIRONMENTAL RESEARCH STATION	
	Olena Velychko et al. (CAS), STAND-ALONE GAMMA SPECTROMETER GEODOS01 FOR DETECTION OF HIGH-ENERGY RADIATION BURSTS IN MOUNTAINS	
	Couret (UBA), 50 YEARS OF CO ₂ MEASUREMENTS AT STATIONS FROM THE GERMAN ENVIRONMENT	
14:45	Session III cont'd: Atmospheric and climatic variability (part 3) (Session Chair: Dr Jaroslav Chum (CAS))	
14:45	Jobin et al. (UNIBE), TEMPERATURE DEPENDENT FRACTIONATION EFFECTS ON OXYGEN MEASUREMENTS	