

## THURSDAY March 14th, 2024

### WELCOME / COFFEE - 8:30 - 9:20

Welcoming remarks and logistics - 9:20 - 9:30

#### 1- Global glacier assessment

09:30 - 09:45	The IGS in the past year	Magnusson Magnus Mar
09:45 - 10:00	130 years of internationally coordinated glacier monitoring – quo vadis?	Zemp Michael
10:00 - 10:15	Converting geodetic ice volume to mass change: a global-scale assessment	Huss Matthias
10:15 - 10:30	The Pléiades Glacier Observatory: high resolution digital elevation models and ortho-imagery to monitor glacier change	Berthier Etienne

#### 2 - Field monitoring/instrumentation

10:45 - 11:00	Drone-based GPR system for glaciological applications: from data acquisition to data analysis.	Ruols Bastien
11:00 - 11:15	How effective is the GNSS-IR technique to study the surface mass balance?	Togaibekov Anuar
11:15 - 11:30	Monitoring daily flow velocities at Abramov glacier with low-cost, open-source GNSS loggers	Mattea Enrico
11:30 - 11:45	Innovative glacier monitoring above the town of Randa, Switzerland, including an early warning service and sophisticated fully-automated monitoring technology	Schneider Flurina, Senn Ingrid
11:45 - 12:00	Integrating Cosmic Ray Neutron Sensor Technology for Scaling Winter Precipitation for Glacier Monitoring	Schroeder Marie

### LUNCH 12:00 - 13:00

### POSTER SESSION 13:00 - 14:30

#### 3 - Remote sensing

14:30 - 14:45	GlaciOmega, Glacier risk monitoring system using hybrid terrestrial/satellite surface velocity measurements.	Urruty Benoît
14:45 - 15:00	Enhancing Debris Thickness Estimations on Glaciers through Improved Glacier Surface Temperature Estimates obtained using Remote Sensing data: An Illustration on the Panchinala-A Glacier in Western Himalayas	Ramsankaran R A A J
15:00 - 15:15	Integrating ground-penetrating RaDAR, UAV photogrammetry, and borehole thermal data to assess hanging glacier evolution at Pointes de Mourtis (3564 m a.s.l., Pennine Alps, Switzerland)	Robson Ben
15:15 - 15:30	Intra-annual velocity variability extracted from multi-sensor and multi-temporal datasets produced by different processing chains	Charrier Laurane
15:30 - 15:45	Spatio-temporal evolution of Glacier facies in Himalaya using SAR Remote Sensing: examples from the Khumbu and Chandra Bhaga basins	Racoviteanu Adina

### 15:45 - 16:15 COFFEE BREAK (30')

#### 4 - Morphodynamic processes

16:15 - 16:30	Supraglacial discharge and channels on a debris-covered glacier and implications for ice cliffs formation	Walker Céline
16:30 - 16:45	The formation of a circular collapse crater at Rhonegletscher (Switzerland)	Bauder Andreas
16:45 - 17:00	Morphodynamics of the Mont Blanc glaciers and their recent evolution	Troilo Fabrizio
17:00 - 17:15	Mapping of morainic complexes and reconstruction of glacier dynamics northeast of Cook Ice Cap, Kerguelen Archipelago (49°S)	Deline Philip
17:15 - 17:30	Permafrost evolution in the French Alps: main results of Perma-France network over the period 2010-2023	Magnin Florence

### CONFERENCE DINNER 19:00 - 24:00

## FRIDAY March 15th, 2024

### 5 - Processes

09:00 - 09:15	Seasonal variations in the three-dimensional velocities of Hintereisferner (Austria) at point scale	Rainer Prinz
09:15 - 09:30	Distributed surface mass balance of the avalanche-fed Argentière glacier, French Alps	Kneib Marin
09:30 - 09:45	Stereo-photogrammetric monitoring of the Belvedere Glacier reveals short-term relationship between glacial dynamics and air temperature.	Dematteis Niccolo
09:45 - 10:00	Superimposed ice formation reduces meltwater runoff from ice slab areas of the Greenland Ice Sheet	Tedstone Andrew
10:00 - 10:20	<b>Two points of view</b> : Englacial liquid water content revealed by two complementary geophysical methods	Christophe Ogier vs. Laura Gabriel

### 10:20 - 10:45 COFFEE BREAK (25')

### 6 - Past changes

10:45 - 11:00	Glacier area and volume change in the European Alps since the Little Ice Age	Reinthalder Johanne
11:00 - 11:15	Recent loss of thickness in the ice aprons of the Mont-Blanc massif and disappearance of a potential paleo-environmental archive	Ravanel Ludovic
11:15 - 11:30	Retrieving climatic and temporal information from the last glacial maximum using an invert glacier model	Lleshi Kejdi
11:30 - 11:45	Estimating the evolution of a Post-Little Ice Age deglaciated alpine valley through the DEM of Difference (DoD)	Azzoni Roberto Sergio
11:45 - 12:00	High resolution hyperspectral, microphysical and mineralogical analyses of the ADA270 Adamello ice-core	Fiorini Deborah

### LUNCH 12:00 - 13:00

### POSTER SESSION 13:00 - 14:30

### 7 - Modeling

14:30 - 14:45	Differences in RCM simulated Greenland runoff and its impact on modelled ice sheet mass balance	Machguth Horst
14:45 - 15:00	Global ice-thickness inversion using a deep-learning-aided 3D ice-flow model with data assimilation	Cook Samuel
15:00 - 15:15	High-resolution modelling of the last glaciation in the Alps: challenges and perspectives	Guillaume Jouvét
15:15 - 15:30	Modelling alpine cold firn changes at Colle Gnifetti using COSIPY	Gastaldello Marcus

### 15:30 - 16:00 COFFEE BREAK (30')

### 8 - Educational/outreach

16:00 - 16:15	Outreach and popular science projects at Tarfala Research Station	Granebeck Annika, Kirchner Nina
16:15 - 16:30	Save the glaciers! An educational escape kit	Chapuis Anne
16:30 - 16:45	Triangle: a contemporary Art project for the Mer de Glace glacier, Chamonix-Mont-Blanc.	De Coninck Jan
16:45 - 17:00	Educational small-scale model of a mountain glacier	Brondex Julien

## POSTER SESSION 1: Thursday March 14th, 2024

	Poster title	Presenter(s)
A01	Ablation drivers over a cold-based ice cap in the Eastern Alps: a surface energy balance analysis	Baldo Anna
A02	Ablation rate at Perito Moreno assessed through velocity profile and mass balance equation	Stucchi Leonardo, Ferrarin Lucia
A03	3-D full Stokes glacier modelling using a long-time annual mass balance series: Application to Storglaciären, northern Sweden	Robelin Olivier
A04	The challenge of mass conservation for new implementations of the continuity equation	Miles Evan
A05	Impact of rain events on glacier mass balance, parameterizing water retention over ice surfaces in SURFEX-ISBA-Crocus	Goutard Audrey
A06	From mechanical to geometrical regimes in glacier crevassing processes	Rousseau Hugo
A07	Investigating the Firn Stratigraphy and Firn Density Structure Using Ground Penetrating Radar	Patil Akash
A08	Quantitative and fast snowpack stratigraphy: the Snow Light Optical Probe (SLOPE)	Artoni Claudio
A09	SmartStake: a device for measuring the glacier melt in real time over several seasons	Nicolas Zuanon
A10	Unprecedented Observation of Hourly Rock Glacier Velocity With Ground-Based SAR	Dematteis Niccolo
A11	Observed frontal processes prior to a large calving event at Sermeq Kujalleq in West Greenland	Kneib-Walter Andrea
A12	Geomorphological evolution of an Alpine proglacial area: the case study of Martello Valley/Martelltal	Valzasina Stefano
A13	Mapping supraglacial lake drainage events on the Amery Ice Shelf during winter using Sentinel-1	Vomero Mariapina
A14	Mass losses of the polar ice sheets, Antarctica and Greenland. New constraints from stereoscopic imagery and laser altimetry. First results on SPOT5-HRS DEM generation and	Bernat Maud
A15	Unlocking the glaciological information of historical aerial imagery to obtain long-term glacier mass balance information in the Antarctic Peninsula	Thota Vijaya Kumar
A16	Recent evolution of high Alpine areas: multi-sensor optical satellite imagery analysis in the Monte Rosa massif, Western Alps	Di Sopra Pietro
A17	Widespread retreat of 269 Swedish Glaciers observed during 2017-2023 based on semi-automated front tracking based on Sentinel-2 imagery	Houssais Martin
A18	Integrating calving front dynamics with Instructed Glacier Model: A novel glacier forecast approach for Marine- and Lake-Terminating Glaciers	Prasad Veena
A19	Detailed Glacier Area Change Analysis in the European Alps with Deep Learning	Diaconu Codrut-Andrei
A20	Glacial and permafrost hazards in the Italian Alps	Bosso Davide, Chiarle Marta
A21	The future of alpine glacier monitoring in a changing climate: challenges for the annual glaciological surveys in Italy	Viani Cristina

## POSTER SESSION 2: Friday March 15th, 2024

	Poster title	Presenter(s)
B01	From Concept to Reality: Results and Future Prospects of KryoMon.AT	Hansche Iris
B02	Benchmarking new free-surface model formulation in FastIce, a GPU-accelerated ice flow solver	Quarenghi Filippo
B03	Data assimilation method for systematic and efficient calibration of 3D glacier models	Herrmann Oskar
B04	Towards improved snow accumulation estimates of Swiss glaciers with latest snow modelling approaches	Mazzotti Giulia
B05	Model initialisation with rapidly changing glaciers	Mausson Fabien
B06	Connecting observed glacier mass losses and streamflow trends in the European Alps	Van Tiel Marit
B07	Daily vs monthly glacier modelling: a comparison in the Alps and the Tien Shan	Van Tricht Lander
B08	Future retreat of Great Aletsch Glacier and Hintereisferner – an East-West comparison	Rueckamp Martin
B09	Loss of firn layer information in 2022, investigations of the recent firn development at Vernagtferner, Ötztal	Lambrecht Astrid
B10	Monitoring an ice-dammed lake outburst using topographic data at Kongsvegen, Svalbard	Piermattei Livia
B11	Advancing understanding of Holocene rock glacier dynamics	Lehmann Benjamin
B12	Filling the white spots - Initiating permafrost research in Bhutan	Salzmann Nadine
B13	Modelling the complex response of debris covered glaciers on variations in climate and debris input	Hardmeier Florian
B14	Quantifying the morphological evolution and interaction of ice cliffs and supraglacial stream incision on debris-covered glaciers using high-resolution terrestrial lidar and UAV methods	Ouvry Boris
B15	Estimating the annual accumulation of the Khumbu Glacier, Nepal, using weather station data	Graves Benjamin
B16	Evaluation of thickness changes of Baltoro Glacier from TanDEM-X	Barbagallo Blanka
B17	Glaciers & Students : The New Glaciers Inventory of Pakistan	Ahmad Anees, Fugazza Davide
B18	The University of Milan AWS network in Karakoram	Fugazza Davide
B19	Effect of climate policies on the long-term equilibration of glaciers	Schuster Lilian
B20	Submersion - a collaboration between research and art	Chapuis Anne