



Programme

Wednesday, September 22

Arrival day: from 17:00 onward registration at Salutation Hotel, welcome drink at 19:00.
Please provide your presentation here!

Thursday, September 23

- 09:00 Welcome address **Georg Grabherr**
09:15 Introduction to the meeting **Harald Pauli**

Session 1: Status of GLORIA at its 10th anniversary A

- 09:30 Overview of the GLORIA network **Georg Grabherr**

South America – Chair: Rosario Gavilan

09:45 **Stephan Halloy**

Halloy, S., Beck, S., Grau, A., Jácome, J., Tupayachi, A., Yager, K., Aguirre, N., Carilla, J., Cuello, S., Cuesta, F., Domic, A., Farfán, J., García, C., León, B., Meneses, R. I., Oyos, E., Salgado, S., Seimon, A., Seimon, T., Suárez, D., Young, K. & Viñas, P.

*Baseline for climate change impacts on biodiversity in the Andes:
Establishment and preliminary results of long-term GLORIA monitoring sites*

10:05 **Francisco Cuesta**

Cuesta, F., Becerra, M.T., Halloy, S., Salgado, S.
GLORIA as a key element to implement an environmental monitoring system for the Andean Community

10:25 **Teresa Schwarzkopf & Tatiana Ojeda Luna**

*Methodological insights to the GLORIA field method proposed for the highland vegetation of the Northern Andes/
Páramo Ecosystem Floristic Diversity of Podocarpus National Park to Monitor Climate Change*

10:45 BREAK

11:15 **Stephan Beck & Karina Yager & Rosa Isela Meneses**

Beck, S., Yager, K., Meneses, R. I., Halloy, S., Domic, A. & Garcia, C.
GLORIA sites in the high Andes of Bolivia: A multi-disciplinary assessment

North America – Chair: Catherine Pickering

11:35 **Colin Maher**

The Wild West: GLORIA in the White Mountains and Sierra Nevada of California

11:50 **Lindsey E. Bengtson**

Bengtson, L., Fagre, D., Asebrook, J. & Hintz, J.

Glacier National Park GLORIA re-survey project: an evaluation of changes in alpine plant species composition and distribution due to five years of climate change in the Northern Rocky Mountains, Montana.

12:05 **Martha Apple**

Apple, M., Warden, J. E., Apple, C. J., & Gallagher, J. H.

Phenology and the seasonal appearance of species at the Southwestern Montana GLORIA site

12:20 LUNCH

EUROPE – Chair: Tatjana Yashina

14:00 **Brigitta Erschbamer**

*Erschbamer, B., Mallaun, M. & Unterluggauer, P.
Short-term signals of climate change in the Dolomites (S-Alps, Italy)*

14:15 **George Nakhutsrishvili**

*Nakhutsrishvili, G., Abdaladze, O., Akhalkatsi, M. & Batsatsashvili, K.
High mountain interglacial vegetation of the Caucasus on the background of the global warming*

14:30 **Per Larsson**

A new Gloria-site established in Jamtland, west central Sweden

14:45 **Michael Vogel**

*Vogel, M., Huber, D. & Franz, H.
Gloria test site embedded into climate change monitoring programmes of the Berchtesgaden National Park*

15:00 **Alba Gutierrez-Giron**

*Gutierrez-Giron, A. & Gavilan, R.
Environmental variables and functional traits relationships in Mediterranean high mountain grasslands in Central Spain*

15:15 **Anne Syverhuset**

Results from the reanalysis of the GLORIA summits at Dovrefjell, Norway

15:30 **BREAK**

Session 2: GLORIA data analysis A – Chair: Stephan Halloy

16:00 Observer variation in visual cover estimation **Michael Gottfried & Andreas Futschik**

16:45 Changes in species composition and cover across Europe's mountain regions **Michael Gottfried & Andreas Futschik**

17:30 Species gains and losses on European mountain summits **Harald Pauli**

Poster Presentation

17:45 Presentation of all posters and tasting of regional drinks

19:00 **CLOSE**

Session 3: Status of GLORIA at its 10th anniversary B

Asia – Chair: Jean-Paul Theurillat

- 09:00 Introduction **Harald Pauli**
- 09:05 **Jan Salick**
GLORIA in the Eastern Himalaya
- 09:25 **Tatjana Yashina**
Artemov, I. & Yashina, T.
GLORIA Network in the Altai-Sayan Ecoregion
- 09:40 **Jalil Noroozi**
GLORIA-Iran: Potential effects of climate warming on a unique high-altitude flora
- 09:55 **Ho-Yih Liu**
Liu, Ho-Yih, Hsieh, Ling-Chun
Subtropical alpine vegetation structure in the Central Mountain Range, Taiwan
- 10:10 BREAK

Parallel Workshops

- 10:40 A: Data analyses – planning regional and continental scale comparison
Organised by Michael Gottfried
- B: Ethno botany – Traditional Knowledge and climate change
Organised by Jan Salick
- 12:30 LUNCH

Session 4: Status of GLORIA at its 10th anniversary C

Australasia & Africa – Chair: Martha Apple

- 14:00 **Catherine Pickering**
Pickering, C., Green, K. & Venn, S.
Relationship between topography, soils and micro-climate and the current composition of vegetation and functional traits among five GLORIA summits in the Snowy Mountains, Australia
- 14:15 **Katharine Dickinson**
GLORIA activities in New Zealand
- 14:30 **Abdeltif El Quahrani**
El Quahrani, A. & Merzouki, A.
Planned GLORIA sites in the Moroccan Atlas

Europe Part 2

- 14:45 **Anna Maria Fosaa**
Fosaa, A. M., Nagy, L.
A GLORIA site in the Faroe Islands
- 15:00 **Rosario G. Gavilán**
Gavilan, R. G., Gutiérrez Girón, A.
GLORIA activities in central Spain (ES-SIC): how far are we going?
- 15:15 BREAK

Session 5: GLORIA Methods – Chair: Gian-Reto Walther

- 15:45 A suggestion for a refined and commonly agreed method **Harald Pauli**
- 16:00 A comparison of different methods of cover estimation **Barbara Friedmann**
- 16:15 Species recording at different spatial levels **Harald Pauli**
- 16:45 Temperature measurement - Devices, technical standards **Michael Gottfried**
- 17:00 Check of Changes - Implications for resurveys **Harald Pauli**
- 17:20 Final discussion and agreements on methodological standards
- 19:00 CLOSE

Session 6: Additional GLORIA activities & Master Sites – Chair: Jan Salick

09:00 Introduction **Georg Grabherr**

09:10 **Yuri Mikhailov**

Invertebrates as additional indicators for monitoring at target regions in the Urals

09:25 **Dirk Hofmann & Karina Yager**

Identification and incorporation of socio-economic and cultural aspects of site implementation and monitoring

09:40 **Jarle I. Holten**

Holten, J. I. & Wehn, S.

A new approach - the Mountain Slope Approach

09:55 **Christian Rixen**

Increasing plant biodiversity on mountain tops at the upper limit of dwarf shrub heath

10:10 **Juan José Jimenez**

Jimenez, J. J., Villar, L.

Soil data (C, N, P, and ph) in Monte Perdido massif (CPY, Spain) and their relation with abiotic and biotic factors (a GLORIA optional activity)

10:25 BREAK

Workshop on collateral data

11:00 Collateral data: *Organised by Harald Pauli*

Vertical range of species, species distribution / endemism; potential treelines (thematic and/or regional working groups)

Session 7: The central GLORIA database – Chair: Brigitta Erschbamer

12:00 Upcoming data analyses (workshop report)

12:30 LUNCH

14:00 Data property, data sharing and authorship issues **Michael Gottfried**

14:30 Discussion on Data property, data sharing and authorship issues

Session 8: Workshop reports and discussion – Chair: Georg Grabherr

15:30 Ethno botany

16:00 Collateral data

16:30 BREAK

17:00 Final discussions

19:00 CLOSE

Sunday, September 26

Excursion day (joint day with the Conference on Global Change in the World's Mountains):
several options including a visit of the Cairngorms GLORIA sites.

Buses are leaving in front of Perth City Hall at 09:00 and return at approximately 18:00.

Evening: **Conference Dinner at Salutation Hotel 19:00**

Supporters of the

GLORIA conference September 23-25, Perth, Scotland/UK



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