

Final User Workshop ESA Data User Element DUE Permafrost

February, 15th - 17th, 2012



Event Description

The **ESA Data User Element DUE Permafrost** aims to establish a **permafrost monitoring** service based on **operational remote sensing** datasets. The satellite-derived products (on regional to circum-polar scales) which are specifically addressed are **land surface temperature, surface soil moisture, surface frozen/thawed state, surface waters, terrain (elevation and subsidence), and land cover**. The project team consists of scientists from Austria, Canada, Germany and Switzerland. Snow extent and snow water equivalent datasets are available from **DUE Globsnow**.

The 3rd and final **DUE Permafrost User Workshop** will be hosted by the Alfred Wegener Institute for Polar and Marine Research, AWI, in Potsdam, Germany. The **DUE Permafrost monitoring service** will be presented and applications discussed with the participants. The workshop is open to all.

Participants are encouraged to prepare posters and a short (3-4 minutes) introduction to their research. For poster presentation, please include a title and abstract (max. 1 page including figures and tables). Please register via email [[Birgit.Heim\(at\)awi.de](mailto:Birgit.Heim(at)awi.de)] by **20th of January 2012**. There is no registration fee.

For further information, please contact [Birgit.Heim\(at\)awi.de](mailto:Birgit.Heim(at)awi.de) or check the following link:

<http://www.ipf.tuwien.ac.at/permafrost/index.php/component/eventlist/details/34-3rd-user-workshop>

The workshop is organized back-to-back with another ESA project final workshop: STSE ALANIS. There are three sub-projects focusing on plumes, aerosols and methane in Northern Eurasia. The outcomes of these projects are presented on the 14th of February 2012 (also at AWI Potsdam). For more information please contact [Mattia.Marconcini\(at\)esa.int](mailto:Mattia.Marconcini(at)esa.int).

Venue Description

Alfred Wegener Institute for Polar and Marine Research,
Telegrafenberg, 14473 Potsdam, Germany



LOCAL ORGANIZING ADDRESS

Alfred Wegener Institute for Polar and Marine Research
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birgit.heim@awi.de

PRELIMINARY AGENDA 14.-17.02.2012

Tuesday 14th of February 2012 ESA ALANIS

Final User Workshop

There are three sub-projects focusing on plumes, aerosols and methane in Northern Eurasia.
For more information please contact [Mattia.Marconcini\(at\)esa.int](mailto:Mattia.Marconcini@esa.int)

Wednesday 15th of February 2012 ESA DUE Permafrost

from 8.30 a.m. on: **Registration**

9.15 a.m. – 5 p.m. (lunch break 1.30 – 2.30 p.m.)

- **Welcome**
by Prof. H.-W. Hubberten, head of the AWI Potsdam and current President of the International Permafrost Association IPA
by ESA Data User Element DUE Officer F.M. Seifert, ESA
- **Project Overview**
Annett Bartsch, Vienna University of Technology (AT)
- **Introduction to Remote Sensing of Permafrost**
Claude Duguay, University of Waterloo (CA)
- **ESA DUE Permafrost – demonstration of products and services**
DUE Permafrost Project Team: Vienna University of Technology (AT), University of Waterloo (CA), Friedrich Schiller University of Jena (DE), GAMMA Remote Sensing (CH), Alfred Wegener Institute (DE).

Thursday 16th of February 2012 ESA DUE Permafrost

9 a.m. – 7.00 p.m. (lunch break 1.30 – 2.30 p.m.)

- **Oral presentations by Participants** (*details tbd*):
concepts and programs of Remote Sensing at high latitudes,
remote sensing applications for permafrost monitoring and modelling
applications using DUE Permafrost products
- **Short oral Poster presentations by Participants** (*details tbd*)
- **Poster Session by Participants** from 4 pm on (*with buffet and drinks*)

Friday 17th of February 2012 ESA DUE Permafrost

9 a.m. – 1.30 p.m.

- **1st Session, Open Discussion – Modelling and Remote Sensing [Permafrost]**
This session will discuss issues on modelling and remote sensing data, for example, remote sensing data as input as external spatial data, forcing spatial data, boundary spatial data and evaluating spatial data for modelling of climate, permafrost and vegetation. In this session, case studies will be introduced to stimulate the discussion.
- **2nd Session, Open Discussion – Field monitoring and Remote Sensing [Permafrost]**
This session will discuss issues on field monitoring and remote sensing data: for example the vice-versa effective use of field data needed for the evaluation of remote sensing data and remote sensing data as a tool for monitoring, extrapolation and scaling.
- **Final Discussion – Future Aspects and Closing**

The workshop is open to all, it includes drinks and snacks during coffee breaks for those registered.

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Travelling and hotel

Potsdam can be easily reached by public transport from the Berlin airports (Tegel or Schönefeld). Buses and trains provide a quick and comfortable connection.

Travelling from Airport Berlin-Tegel to Potsdam:

If you arrive at Berlin-Tegel airport, the quickest way to get to Potsdam is by bus and then by the S-Bahn. The bus stop is in front of the main entrance of the airport. Buses 109 or X9 will take you directly to Zoologischer Garten railway station (Direction: S+U Zoologischer Garten). At Zoologischer Garten railway station take the S-Bahn S7 to Potsdam (it is a direct city train, leaving every 10 minutes). The S-Bahn journey takes 40 minutes. Please calculate 70-90 min for the entire journey.

Tickets: Buy a single ticket or a day ticket for zones Berlin ABC. The tickets are valid in Berlin and Potsdam. You can buy a ticket from a bus driver or from a ticket machine on the S-Bahn platform.

Travelling from Airport Berlin-Schönefeld to Potsdam:

There is a direct train (Regionalbahn) connecting the Berlin-Schönefeld airport with Potsdam (RB22 direction Potsdam Hbf). Potsdam is the last station on this train and the train leaves every hour. The journey takes 60 min. Tickets can be purchased on the platform from a ticket machine.

Workshop hotel:

A number of rooms have been booked at attractive rates (single room 70 Euro incl. breakfast, double rooms 85 EUR incl. breakfast) in the Mercure Hotel Potsdam (<http://www.mercure.com/de/hotel-1582-mercure-hotel-potsdam-city/index.shtml>). This hotel is close to the workshop venue (about 20 minutes walking distance) and just on the other side of the bridge from the train station. A 10-12 minute walk will get you to downtown Potsdam to local shops, eateries, and bars.

You must make your own reservations. The block of rooms will only be **secured for us until January 23**, so make your reservations soon. Please contact the hotel directly at the following address Tel.: 0049 331 2722; Fax: 0049 331 293496; e-mail: H1582-RE3@accor.com and use the keyword 'Permafrost'.

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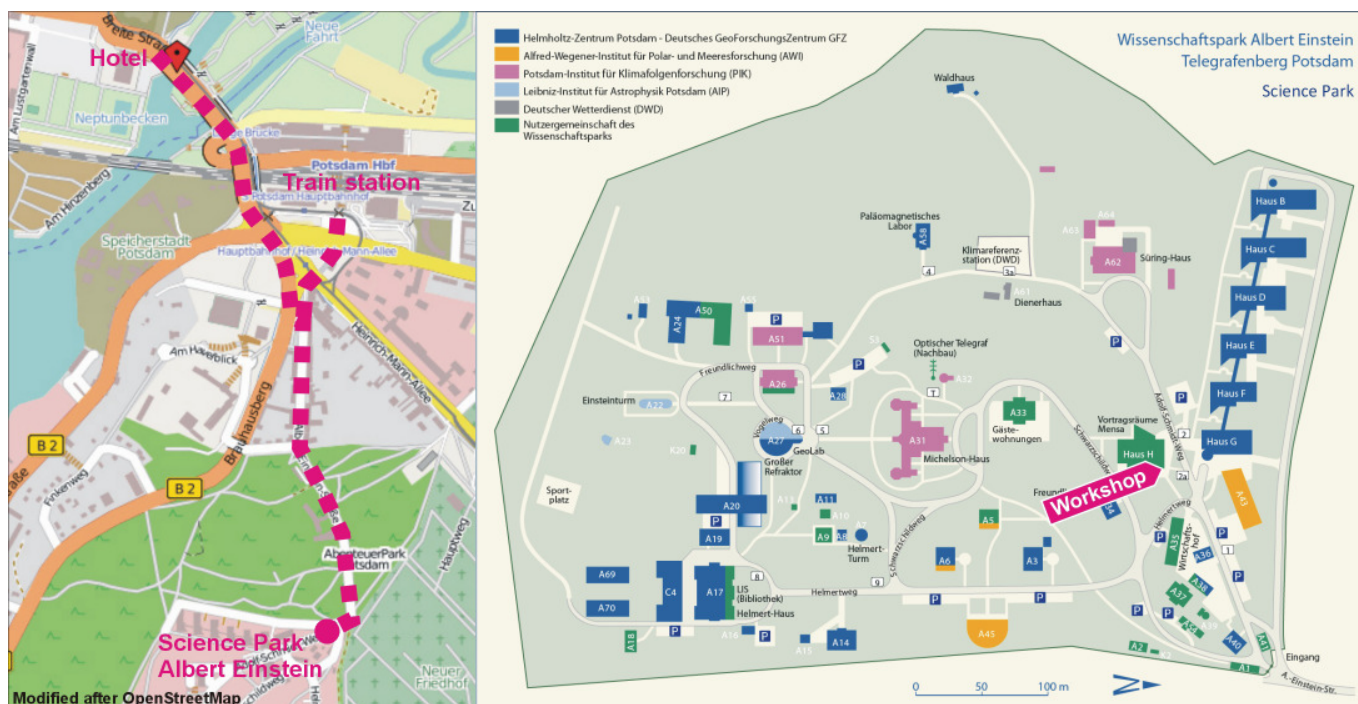
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Workshop Venue

The workshop will be held at the Alfred Wegener Institute for Polar and Marine Research in Potsdam. The institute is located on the wooded hill of Telegrafenberg in a historical campus (19th century). The best known historical building in the campus park Albert Einstein is the Einstein Tower, an astrophysical observatory that was built to perform checks of Einstein's theory of General Relativity.

Access by walk from the Potsdam central train station or the Mercure hotel takes approximately 20 minutes (<http://g.co/maps/gupgt>). You can also go by bus from the central bus stands at Potsdam Hauptbahnhof (south exit): the bus 691 to Telegrafenberg leaves hourly from platform 7 at .14 and .44 (7 a.m to 9 a.m). Taxis can bring you also to the entrance of the campus. From there you'll have to walk to *Haus H* (1 minute). The *Lecture Rooms* are located in the building *Haus H*. The lunches will be taken in *Haus H* in the cantina.

Access from Mercure Hotel to the location of workshop: Haus H, Science Park Albert Einstein



We are looking forward to host you in Potsdam.

Sincerely,
the Organizing Committee of the DUE Permafrost Team
and the Alfred Wegener Institute for Polar and Marine Research, AWI.

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