

Course on SAR interferometry

Practical training with the GAMMA software

5 - 9 May 2025

SAR interferometry (InSAR) is an established technique that allows mapping terrain heights and surface deformation. Our course addresses theoretical aspects of SAR interferometric processing as well as practical approaches supported by GAMMA's Software modules (ISP, DIFF&GEO). Topics related to SAR and InSAR processing will be treated (generation of interferogram, phase unwrapping, geocoding and differential interferometry).

The course covers the following aspects

- Principles of SAR and interferometric SAR processing (*theory*)
- Basic SAR and InSAR processing including geocoding (*hands-on*)
- Advanced processing techniques (*hands-on*)
- Practical examples (*hands-on*)

This course is suited to participants who

- are interested in SAR interferometry and would like to learn processing with the GAMMA software
- are familiar with InSAR processing using the GAMMA Software and require more in depth knowledge of the software processing capabilities

The course will be held by GAMMA personnel. Course language is English.

The course is planned to take place on-site (at GAMMA), but depending on the pandemic situation the format may need to be changed to online (which would also result in a modified schedule).

Schedule (all times are CET)

Mon., 5 May	13:00 – 16:00	Introduction to GAMMA Software
Tue., 6 May	09:00 – 16:00	Image geocoding
Wed., 7 May	09:00 – 16:00	Differential interferometric processing
Thu., 8 May	09:00 – 16:00	Processing of Sentinel-1 data, processing examples
Fri., 9 May	09:00 – 12:00	Processing examples, scripting

Location

GAMMA Main Office is in Gümligen, near Bern, Switzerland. GAMMA is reachable with public transport from Bern. Detailed information on travel options, accomodation and course logistics will be circulated upon registration.

Course fees

5 days **Regular: 3000 Swiss Francs (CHF)** **Student: 2250 Swiss Francs (CHF)**

The fee includes course material. If on site, the training includes lunches and a social event. Participants are required to have own insurance. Registration is required as number of participants is limited. Please use the application form.

Contact

For more information, please contact

Dr. Maurizio Santoro, E-mail: santoro@gamma-rs.ch, Tel: +41-(0)31-9517005 / Fax: +41- (0)31-9517008.

Application form

Course on SAR interferometry *Principles, data processing and applications*

5 - 9 May 2025 (5 days)

To register, please fill in the application form and send it back per email to santoro@gamma-rs.ch or per fax to +41 – (0)31 – 951 70 08.

Participation will be confirmed upon reception of the application form. Thereafter, an invoice will be sent.

If you have any request or comment, please report it in the comments box below.

Family name: _____

First name: _____

Title (Dr., Prof.): _____

Institute: _____

Department: _____

Address: _____

Phone number: _____

Fax number: _____

E-mail: _____

Please select as appropriate

Regular

Student

Comments	
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Herewith I confirm that the information provided in this application is correct. In case of withdrawal from the course, please inform GAMMA Remote Sensing as soon as possible, and no later than 30 April 2025.

Date

Signature of participant

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