

# DORIS DAYS 2025 - PROGRAM AT A GLANCE



## 3rd NOVEMBER | MONDAY | DAY 1: Overview of the DORIS Technique | Online only

Information | Zoom link: Files:

| TIME (UTC)    | Presentation                          | Presenters          | Learning Objectives                                                                                                                                    |
|---------------|---------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13:00 – 13:10 | Welcome and Introduction              | Laurent Soudarin    | Introduce the two-day program; provide context on DORIS and its role in space geodesy                                                                  |
| 13:10 – 13:40 | DORIS System Overview                 | Karine Le Bail      | Understand the DORIS signal, space and ground segments, and real-time orbit determination; gain insight into Genesis mission and upcoming developments |
| 13:40 – 14:10 | DORIS Data Processing and Products    | Petr Stepanek       | Learn the DORIS processing chain, analysis software, standard products, and their performance                                                          |
| 14:10 – 14:20 | Coffee/Stretch Break                  |                     | Opportunity for participants to stretch, refresh, and recharge                                                                                         |
| 14:20 – 14:50 | Science Applications                  | Jean-Michel Lemoine | Explore scientific applications including plate tectonics, gravity-field modeling, and ionospheric monitoring                                          |
| 14:50 – 15:20 | The International DORIS Service (IDS) | Guilhem Moreaux     | Understand IDS structure, mission, data management, network coordination, and contribution to international reference frames                           |
| 15:20 – 15:30 | Coffee/Stretch Break                  |                     | Opportunity for participants to stretch, refresh, and recharge                                                                                         |
| 15:30 – 15:50 | Joining the DORIS/IDS Community       | Cécile Manfredi     | Discover ways to engage with the DORIS/IDS community and contribute to research and operations                                                         |
| 15:50 – 16:00 | Conclusion of Day 1                   | Laurent Soudarin    | Summary of day; prepare participants for hands-on training on Day 2                                                                                    |

## 5th NOVEMBER | WEDNESDAY | DAY 2: Practical Training on DORIS Data Analysis | Hybrid

Information | Zoom link: Files:

| TIME (UTC)    | Presentation                          | Presenters                                   | Learning Objectives                                                                                                                                              |
|---------------|---------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 07:00 – 07:20 | Welcome and Introduction              | Xanthos Papanikolaou and Dimitris Anastasiou | Provide overview of the day; introduce parsing of input data (RINEX, SP3, SINEX) and coordinate extrapolation with DPOD                                          |
| 07:20 – 08:40 | Doppler Observables and System Biases | Ernst Schrama and Xanthos Papanikolaou       | Learn Doppler observables principles, system biases, RINEX data exploration, and ionosphere considerations; perform localization exercises with Argos simulation |
| 08:40 – 08:50 | Coffee/Stretch Break                  |                                              | Opportunity for participants to stretch, refresh, and recharge                                                                                                   |
| 08:50 – 10:10 | Atmospheric Effects                   | Samuel Nahmani and Xanthos Papanikolaou      | Understand atmospheric influence on DORIS signals and apply corrections to improve data accuracy                                                                 |
| 10:10 – 11:10 | Lunch Break                           |                                              |                                                                                                                                                                  |
| 11:10 – 12:30 | Observation Equation                  | Jean-Michel Lemoine and Xanthos Papanikolaou | Understand the mathematical formulation of DORIS observation equations, parameter estimation, and interpretation of residuals                                    |
| 12:30 – 12:40 | Coffee/Stretch Break                  |                                              | Opportunity for participants to stretch, refresh, and recharge                                                                                                   |
| 12:40 – 14:00 | Positioning                           | Arnaud Pollet and Xanthos Papanikolaou       | Apply knowledge to compute positioning solutions, assess accuracy, and consolidate practical and theoretical skills                                              |
| 14:00 – 14:10 | Conclusion of Day 2                   |                                              | Wrap-up, feedback, and final remarks                                                                                                                             |