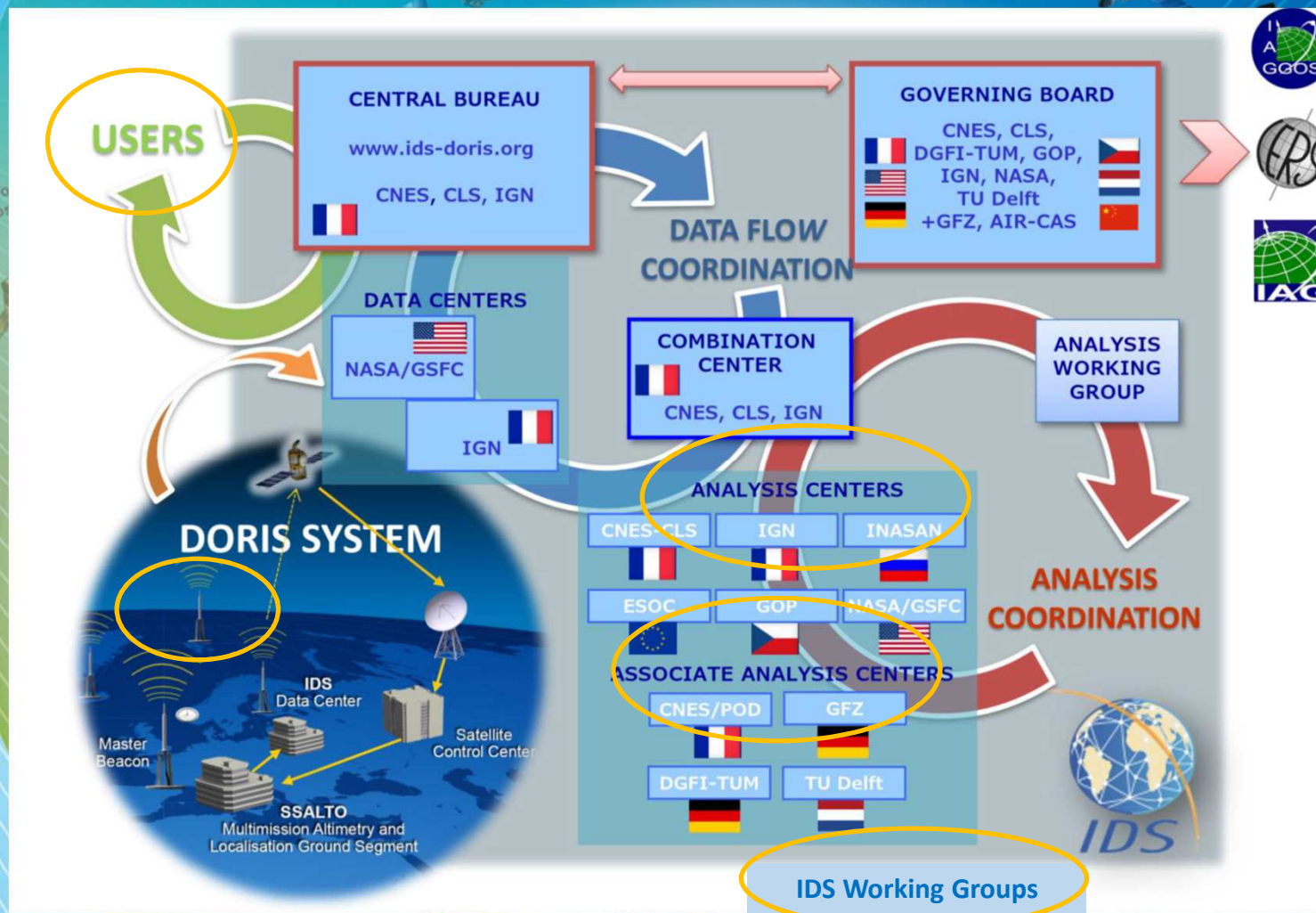




Day 1 – Presentation 5



Introduction



Use DORIS data

- Processing DORIS data /Analysis of DORIS data :

Which data?

- ✓ Raw data
- ✓ SAA corrected data
- ✓ Quaternions
- ✓ Mass history
- ✓ Maneuvers
- ✓ Attitude

⇒ For past and current satellites missions

⇒ Pre-processed data for past missions

⇒ RINEX DORIS files for current missions

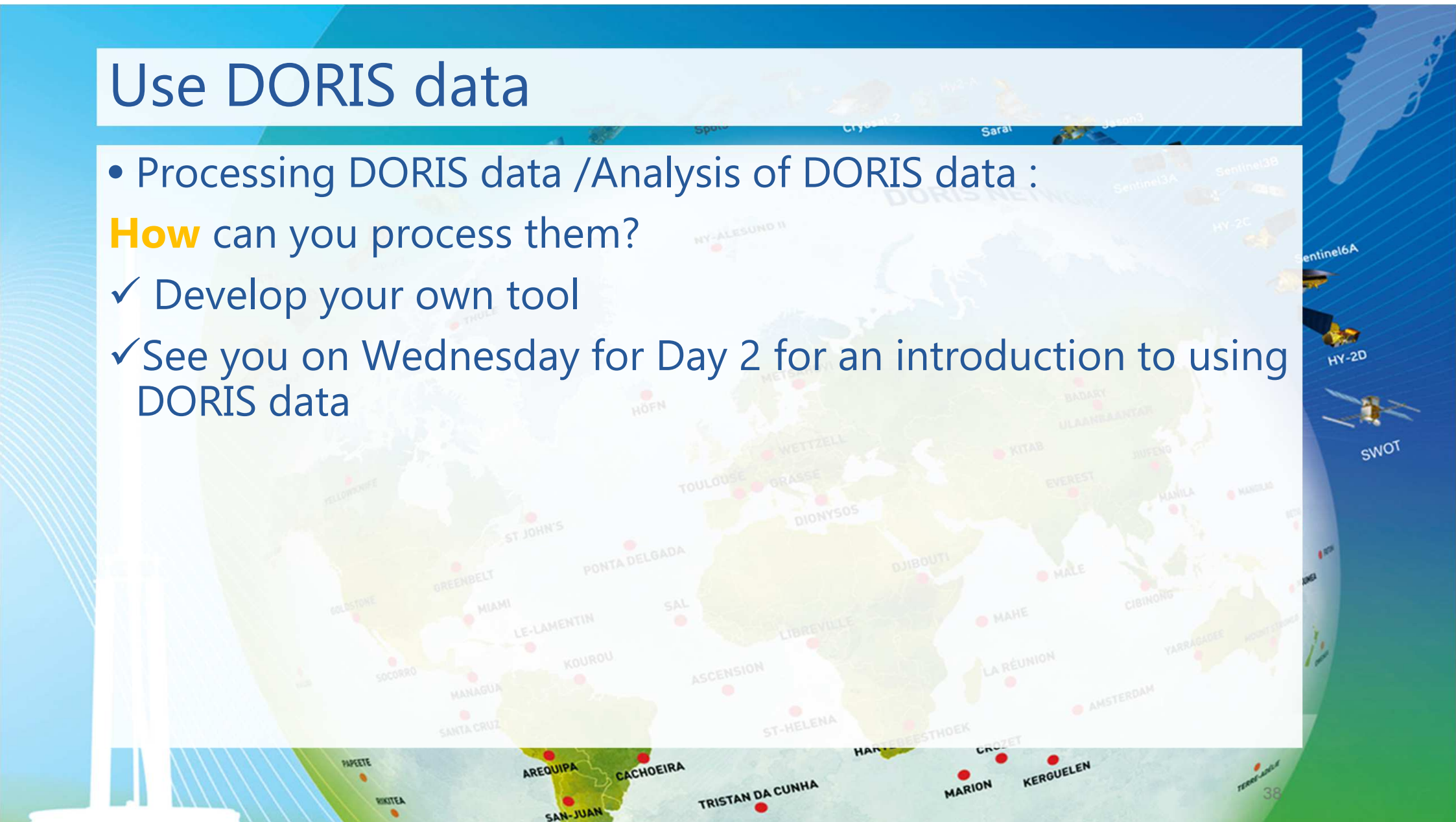
Where can you find them? CDDIS <https> or IGN <ftp> (free access)

Use DORIS data

- Processing DORIS data /Analysis of DORIS data :

How can you process them?

- ✓ Develop your own tool
- ✓ See you on Wednesday for Day 2 for an introduction to using DORIS data

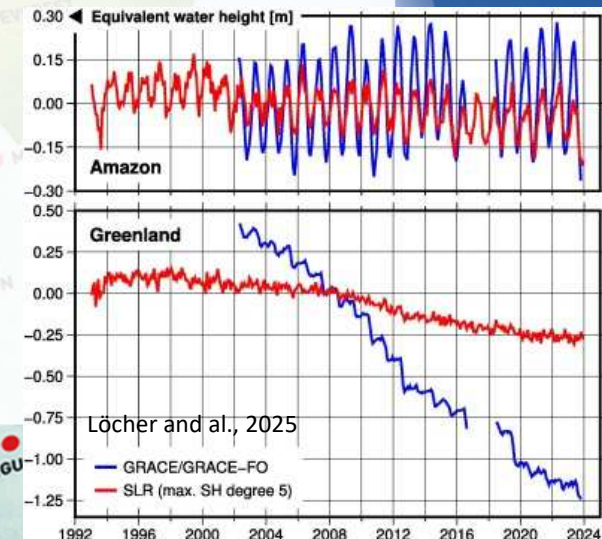
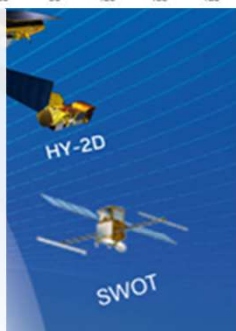
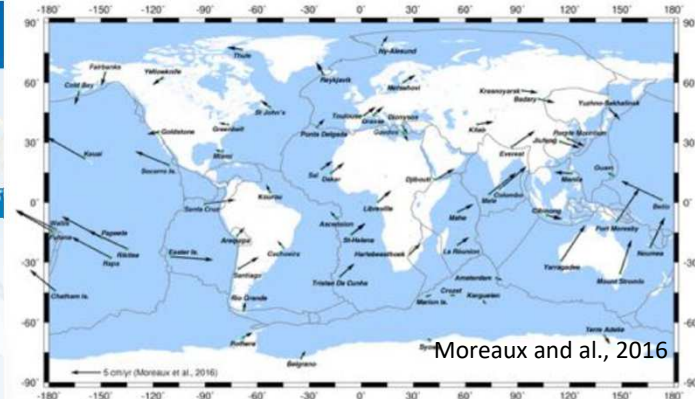


Use DORIS products

- DORIS products:
 - ✓ Coordinates and velocities of IDS tracking stations
 - ✓ Geocenter and scale of the TRF
 - ✓ High accuracy ephemerides of DORIS satellites orbits
 - ✓ Earth Orientation Parameters, polar motion
 - ✓ Ionosphere corrections
- Applications:
 - ✓ Realization of global accessibility to and improvement of the ITRF
 - ✓ Monitoring deformations of the solid Earth
 - ✓ Monitoring crustal deformation at tide gauges
 - ✓ Monitoring variations in the hydrosphere (sea-level, ice-sheets,...)
 - ✓ Orbit determination for scientific satellites
- Use tools provided on IDS website ([IDS web service](#))

What DORIS can observe?

- Tectonic plate parameters
- **Horizontal and vertical velocities of DORIS stations**
- Glacial Isostatic Adjustment
- Earthquakes, present day ice melt of nearby glaciers, volcanic activity, subsidence
- Contribution to the realization of the ITRF
- Geocenter motion and scale of the TRF
- Earth Pole coordinates and estimation of LOD
- Precise orbits for altimeter missions contributing to determination of the Mean Sea Level
- Contour of the SAA at the altitude of Spot and Jason
- Vertical Total Electron Content of the Earth's ionosphere
- Detection of scintillations
- Thermosphere perturbations during severe geomagnetic conditions
- Long time series of tropospheric delays and precipitable water
- **Gravity field time series**



Share your experience and your expertise on DORIS

- Article in scientific journals

- **Attend an IDS meeting**

- IDS Analysis Working Group meetings

Twice per year

Focused on analysis issues with data or products

Attendees: mostly from ACs, AACs, but all are welcome

- IDS Workshop

Bi-annual meeting associated with Ocean Surface Topography Science Team Meeting (OSTST)

Next meeting : 2 days in a week of June 22-26, 2026, Wiesbaden, Germany

Share your experience and your expertise on DORIS

- **Join an IDS Working Group**

What is a WG?

IDS Working Groups provide expertise on particular topics related to the IDS components and on development of particular IDS product(s) or service(s) relying on the IDS infrastructure.

- Currently active IDS Working Groups:

- *NRT Ionospheric Applications*

Chair: Ningbo Wang (AIR/CAS, China)

- *Integrated Clock Correction Strategies for DORIS*

Chair: Patrick Schreiner (GFZ, Germany)

- Proposed IDS Working Group:

- *Troposphere applications (Organization on-going for 2026)*

Proposed chair : Samuel Nahmani (IGN)

- *Other ideas?*



Become an IDS Analysis Center or an IDS Associate Analysis Center

Role of an:

- **IDS Analysis Center** (AC): it provides at least one of the IDS products on a regular basis.
- **IDS Associate Analysis Center** (AAC): it provides specialized or derived products, not necessarily at regular intervals (precise orbits, station positions, Earth orientation parameters, ionospheric products, tropospheric delays,...).
- How? By mutual agreement
- Who to contact?
 - IDS Analysis Coordinators
Petr Stepanek (Pecny Observatory, Czech Republic)
Hugues Capdeville (CLS, France)
 - IDS Central Bureau
Laurent Soudarin (CLS, France)

Hosting a DORIS station

- Propose a new site
 - ⇒ To support the network
 - ⇒ To satisfy clear scientific objectives



Ulaanbaatar DORIS Station, Mongolia

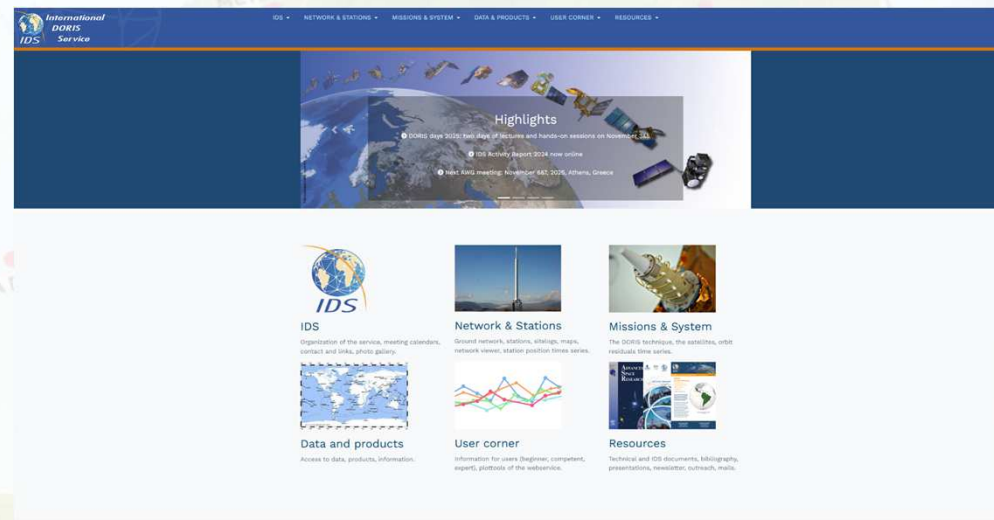


Where are the information?

- On the website : [Home - International DORIS Service](#)
- **Contact : Bureau Central**



Ids.central.bureau@ids-doris.org



Key points

Way to get involved in the DORIS community

- **Explore** DORIS products
- **Look** at station coordinate time series viewer
- **Join** an existing or a proposed **Working Group**
- **Partner with** an existing **Associate Analysis Center** or **Analysis Center** in analysis of DORIS Data
- **Propose a new DORIS site** that would support the network and satisfy clear scientific objectives
- **Contact** IDS Bureau Central

