

DORIS

DAYS
2021

November 16, 17 and 18

November 16

Session 1 – Presentation
9

Organization of analysis coordination

Petr Štěpánek (Geodetic
Observatory Pecný, Research
Institute of Geodesy, Topography
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DORIS NETWORK

IDS structure and analysis coordination

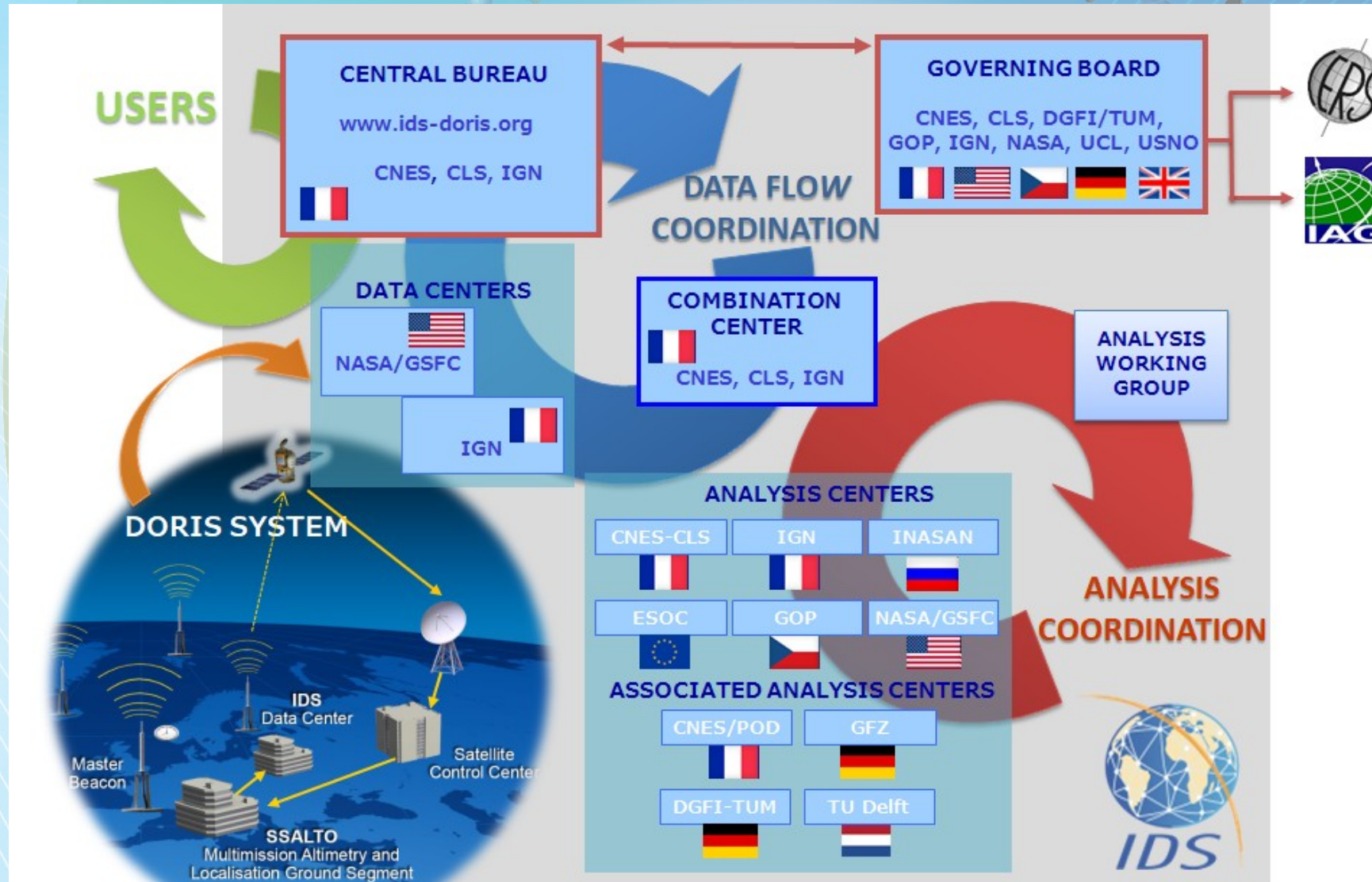
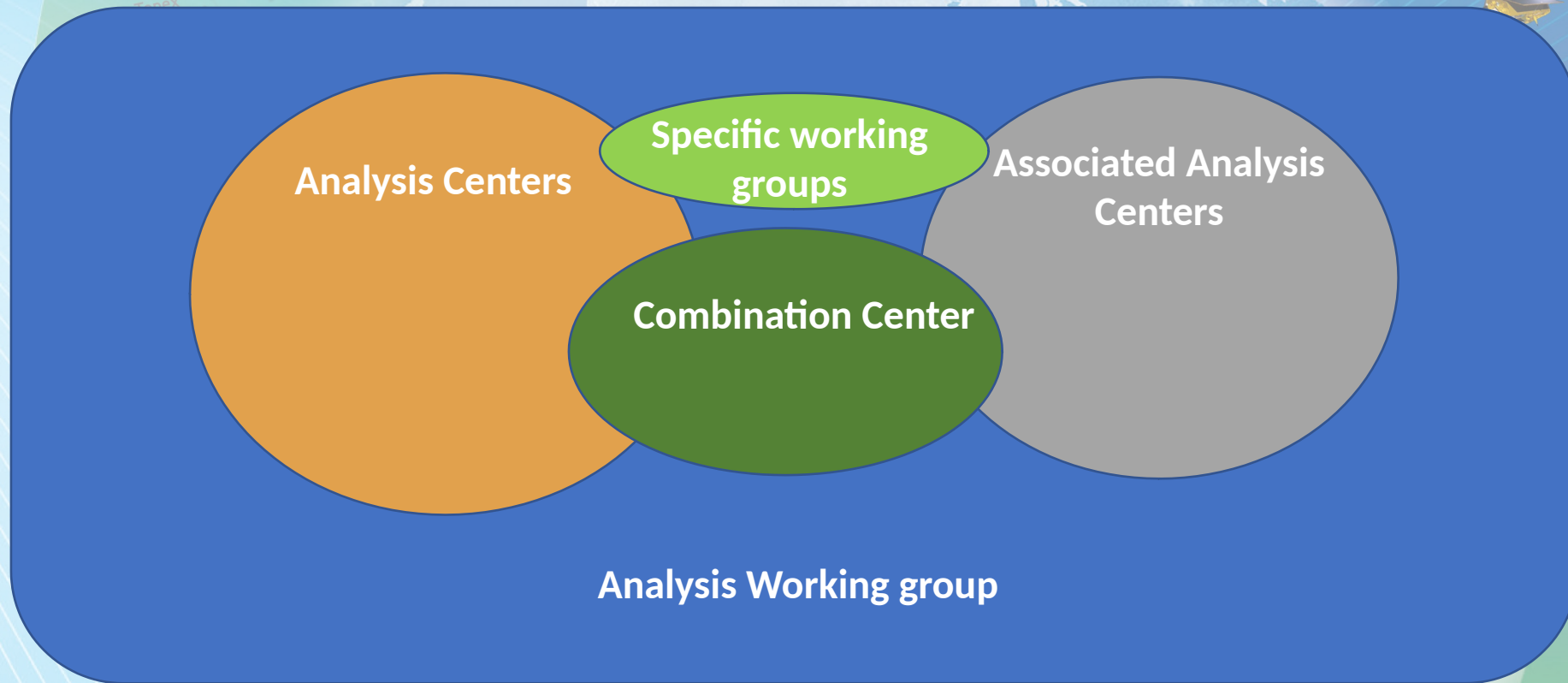
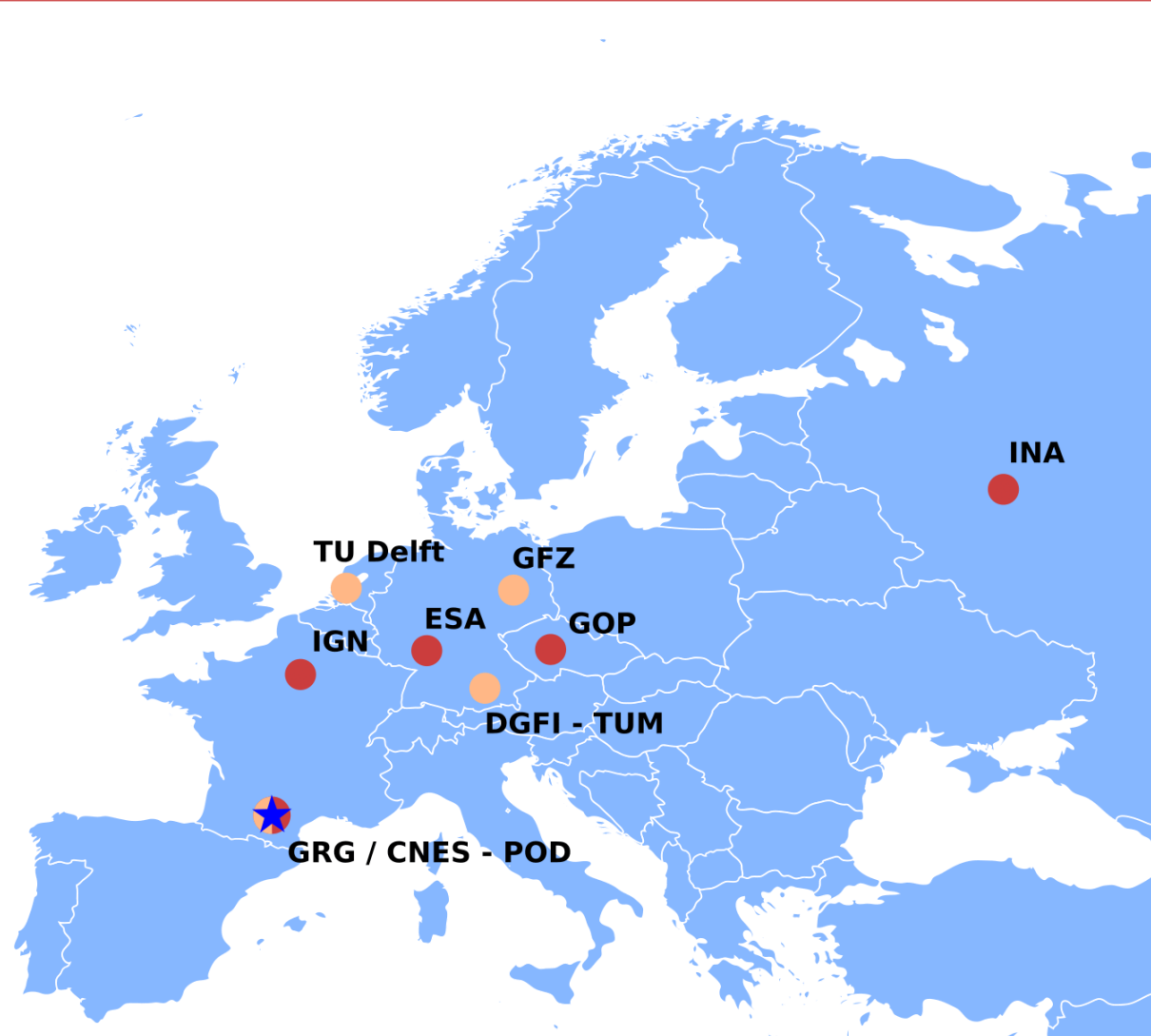


Figure: IDS

DORIS analysis community



DORIS analysis Worldwide



Analysis coordination team

Analysis coordination team:

Hugues CAPDEVILLE (CLS) and Petr ŠTEPÁNEK (GOP)

Contact: ids.analysis.coordination@ids-doris.org

Former Analysis Coordinators:

Hugues CAPDEVILLE (CLS) and Jean-Michel LEMOINE (CNES) service 2015-2018

Frank G. LEMOINE (NASA GSFC) service 2006-2014

Martine FEISSEL-VERNIER (IGN Observatoire de Paris) service 2003-2005

Analysis working group

- The Analysis Working Group (AWG) is composed of members of the Analysis Centers and Associate Analysis Centers. It is animated by the Analysis Coordination.
- The AWG meets at least once a year (in pre-COVID period, usually 2X per year or 1X AWG and 1X IDS workshop). Presentations, minutes, agendas of the meeting are available
- AWG meetings are usually open for all participants, not necessarily official members of IDS, ACs, AACs ...

Analysis Working Group, AWG meeting, Munich 2019



Specific working groups

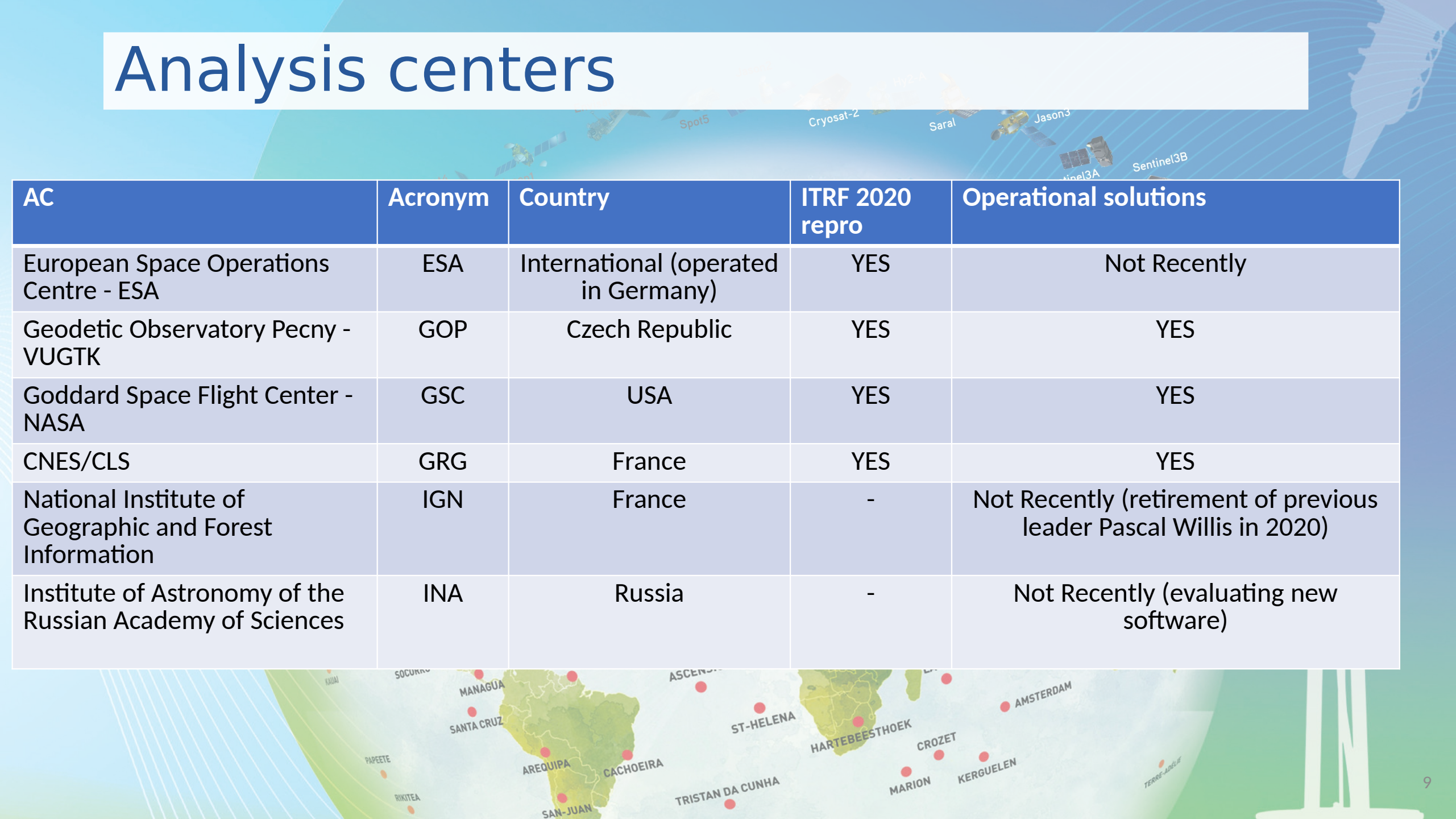
Working group „NRT DORIS DATA“

- Chair: Denise Dettmering (DFGI-TUM)
- Applications, benefits, requirements and prospects from DORIS data with improved latency
- Near real time data in RINEX format
- 1-day delay, possibility of a reduction is discussed
- Earth Ionosphere modeling
- <https://ids-doris.org/ids/organization/working-groups.html#NRTdorisData>

Proposed working group „Determination of Geocenter“

- Chair: Alexandre Couhert (CNES)
- Geocenter determination using DORIS data

Analysis centers



AC	Acronym	Country	ITRF 2020 repro	Operational solutions
European Space Operations Centre - ESA	ESA	International (operated in Germany)	YES	Not Recently
Geodetic Observatory Pecny - VUGTK	GOP	Czech Republic	YES	YES
Goddard Space Flight Center - NASA	GSC	USA	YES	YES
CNES/CLS	GRG	France	YES	YES
National Institute of Geographic and Forest Information	IGN	France	-	Not Recently (retirement of previous leader Pascal Willis in 2020)
Institute of Astronomy of the Russian Academy of Sciences	INA	Russia	-	Not Recently (evaluating new software)



Associated analysis centers

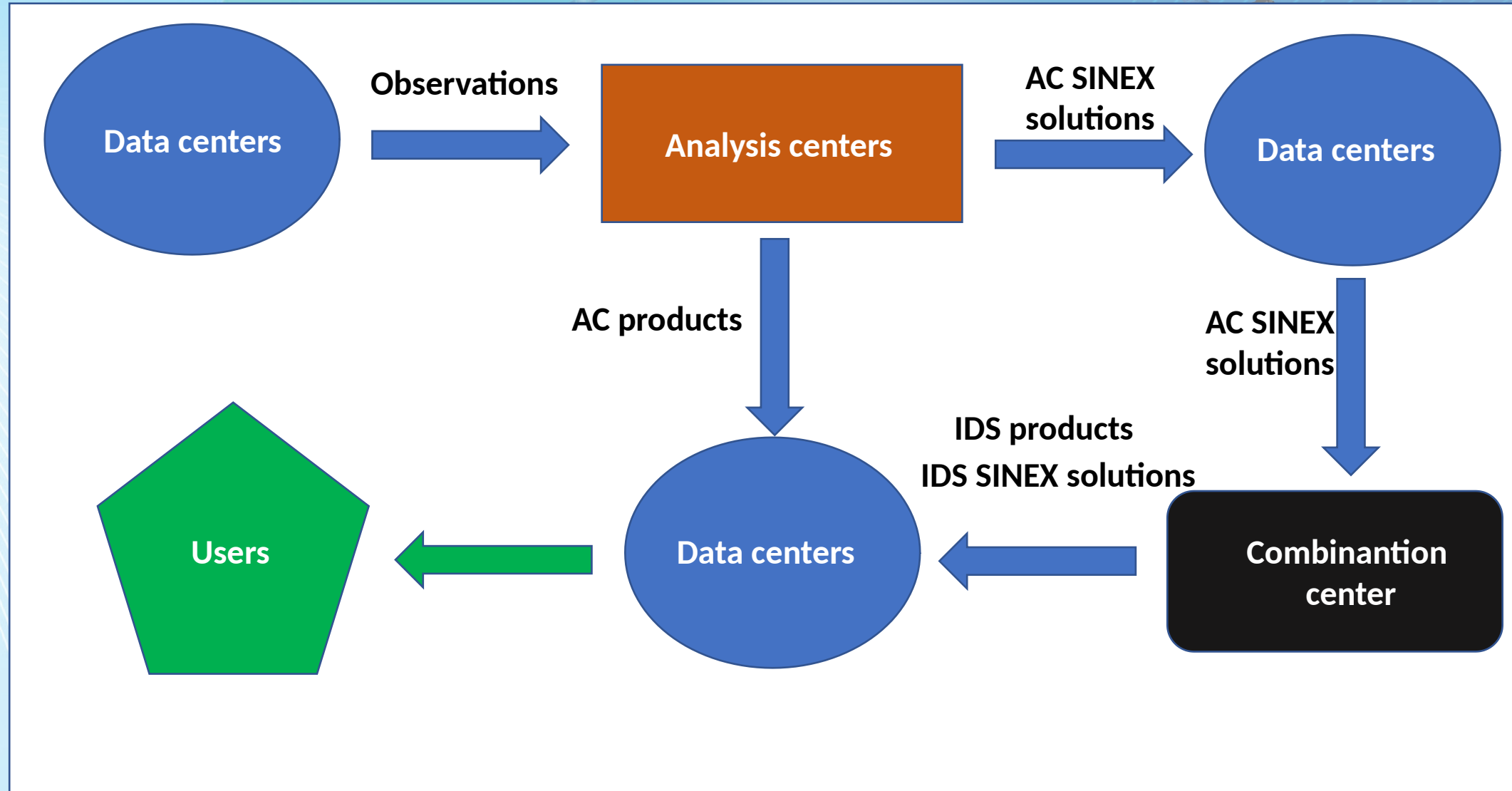
- Focuses on specific DORIS issues
- And/or early evolution step of future AC

Associated AC	Country
GFZ	Germany
CNES/POD	France
TU Delft	Netherlands
DGFI-TUM	Germany

Combination center

- Led by Guilhem Moreaux from CLS
gmoreaux@groupcls.com
- Evaluation of the ACs and AACs solutions
- Feedback for the ACs/AACs
- Operative IDS combined solutions
- Cumulative solutions
- ITRF reprocessing
- IDS products

Analysis centers, combination center and data centers



Feedback from Combination center for AC (example)

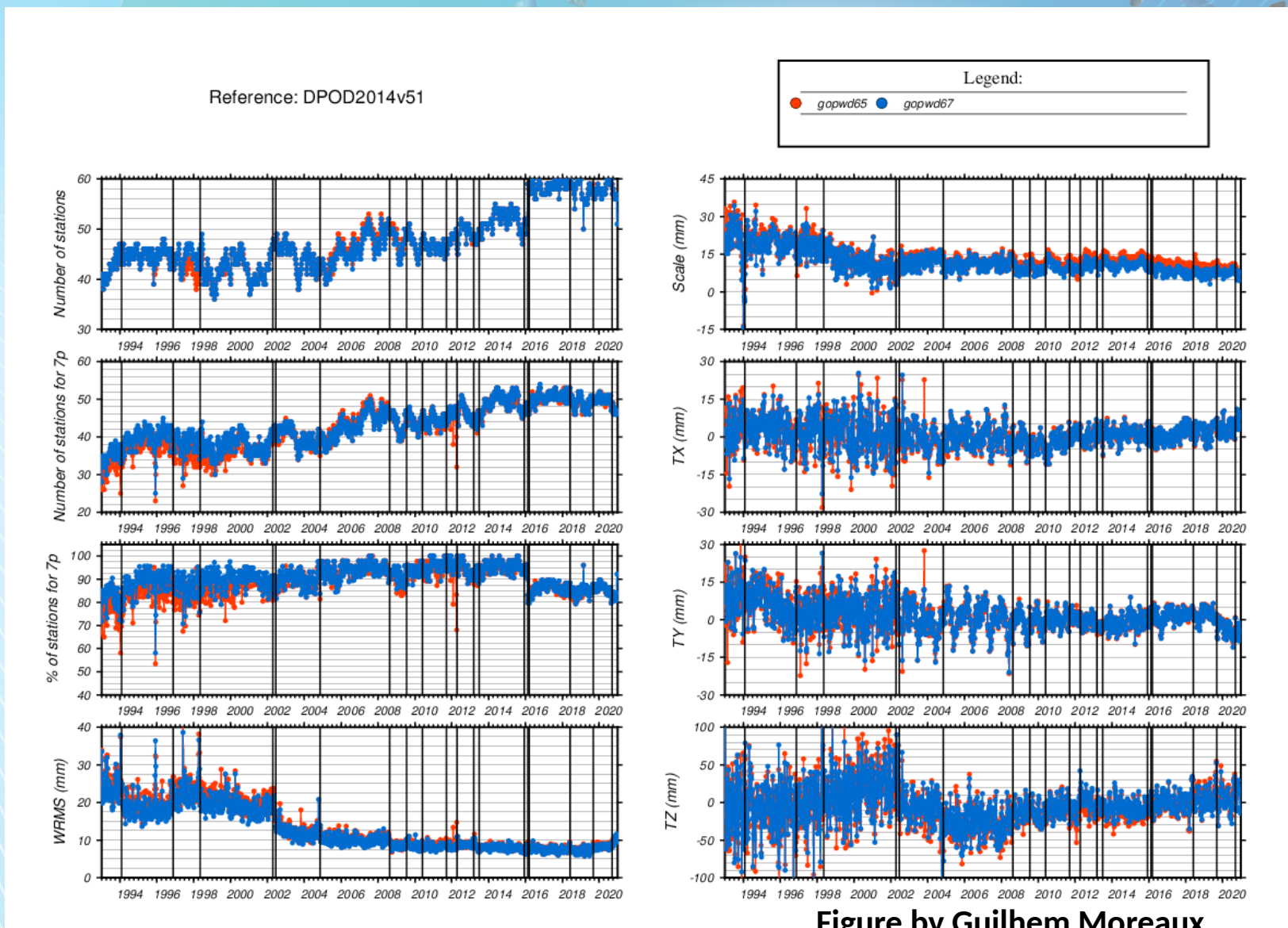


Figure by Guilhem Moreaux

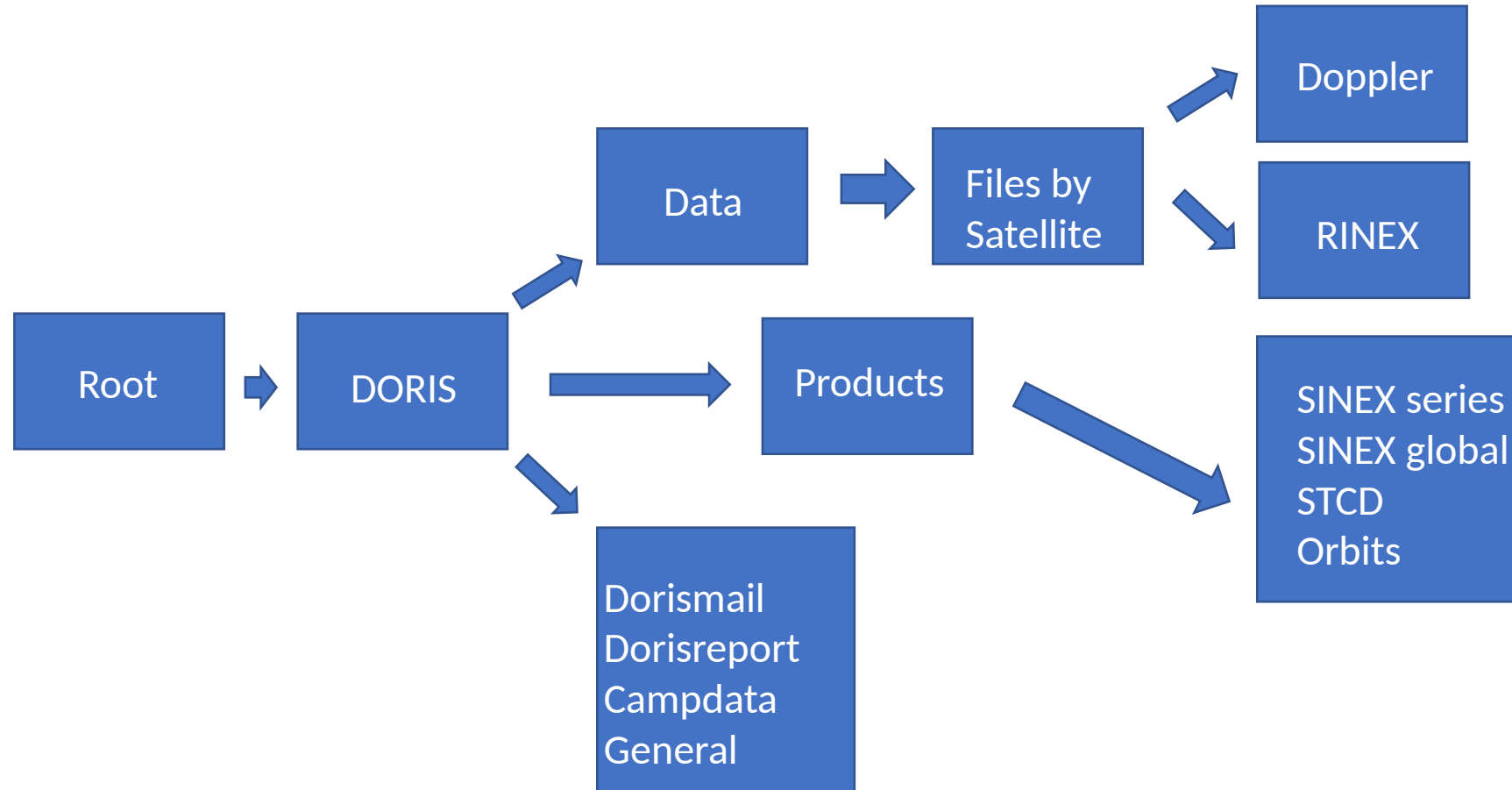
ITRF reprocessing

- Reprocessing all the DORIS data for New ITRF realization
- ITRF 2020 reprocessing all DORIS data 1993.0 -2021.0
- New model and offset testing/implementation
- DORIS RINEX processing
- Standards for ACs and roadmap
 - <https://ids-doris.org/analysis-coordination/itrf2020.html>
 - IDS recommendations
 - IDS suggestions (if possible, ...)
 - „Free aspects“
- Reprocessing usually repeated more times (at least for some time periods)
- IDS solution by Combination center
- Combined with GNSS, SLR and VLBI solutions

Operational solutions

- Weekly free network solutions
- SINEX format
- Delivered each quarter a year
- Max. delay half a year
- AC solutions
- IDS combined solution

Data centers



DORIS mails and DORIS reports

DORIS mails

- Object: information of general interest to the IDS and DORIS community.
- Archive: DORIS mails are all archived on the mailing list server of CLS.
- Back-up archive: All mails are available on the IDS ftp server in text format.
- List of the mails: <ftp://ftp.ids-doris.org/pub/ids/dorismail/dorismail.index>
- How to send a DORISmail: use dorismail@ids-doris.org

DORIS reports

- Object: regular reports from Analysis Centers, from the Analysis coordination and from the CNES POD team.
- Archive: DORIS reports are all archived on the mailing list server of CLS.
- Back-up archive: All mails are available on the IDS ftp server in text format.
- List of the mails: <ftp://ftp.ids-doris.org/pub/ids/dorisreport/dorisreport.index>
- How to send a DORISReport: use dorisreport@ids-doris.org

Key points

- Analysis working group
- Analysis centers, analysis associated centers, combination center
- Data centers
- Operational solutions and ITRF reprocessing
- Doris mails and Doris reports