

Sub-Commission SC 1.3 Regional Reference Frames

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Sub-Commission SC 1.3 - Regional Reference Frames

Terms of Reference

Sub-Commission 1.3 deals with the definitions and realizations of regional reference frames and their connection to the global International Terrestrial Reference Frame (ITRF).

It offers a home for service-like activities addressing theoretical and technical key common issues of interest to regional organisations.

Objectives

- Develop specifications for the definition and realization of regional reference frames, including the vertical component with special consideration of gravity data and other data.
- Coordinate activities of the regional sub-commissions focusing on exchange and share of competences and results.
- Develop and promote operation of GNSS permanent stations, in connection with IGS whenever appropriate, to be the basis for the long-term maintenance of regional reference frames.
- Promote the actions for the densification of regional velocity fields.
- Encourage and stimulate the development of the AFREF project in close cooperation with IGS and other interested organizations.
- Encourage and assist, within each regional sub-commission, countries to re-define and modernize their national geodetic systems, compatible with the ITRF.

Structure

- Regional Sub-commissions
- ✓ SC1.3a Europe (EUREF)
 - Chair: Johannes Ihde (Germany)
- ✓ SC1.3b South and Central America (SIRGAS)
 - Chair: Claudio Brunini (Argentina)
- ✓ SC1.3c North America (NAREF)
 - Co-Chairs: Richard Snay (USA), Michael Craymer (Canada)
- ✓ SC1.3d Africa (AFREF)
 - Chair: Richard Wonnacott (South Africa)
- ✓ SC1.3e South-East Asia and Pacific
 - Chair: Shigeru Matsuzaka (Japan)
- ✓ SC1.3f Antarctica (SCAR)
 - Chair: Reinhard Dietrich (Germany)
- Working Group SC1.3-WG1: Regional Dense Velocity Fields Chair: Carine Bruyninx (Belgium)

Programme of Activities

- Organize inter-regional workshops addressing activities, results and key issues of common interest to the regional sub-commissions.
- Develop analysis strategies and compare methods for the implementation of the regional reference frames and their expression in the ITRF, with full interaction with the IGS.
- Consider establishing regional dense velocity fields for, primarily, the long-term maintenance of the regional reference frames.
- Contribute at regional levels to the realization and improvement of local surveys in the collocation sites, with full cooperation with the Sub-commission 1.2 Global Reference Frames.

SC1.3-WG1

The main task of this WG is to develop harmonized and possibly common specifications for the densification of the regional velocity fields.