EPOS Board of Service Providers (all thematic & integrated service Board members)

EPOS Geodetic Products & Services (EGPS)

Steering Committee and Executive Committee

COORDINATION

(see next slide)

GNSS DATA DISSEMINATION & PRESERVATION

LEVEL 0

GNSS Observation and Meta-data from Permanent (and Campaign) Stations

Structure: Distributed (GSAC-like)

1 EPOS Data Gateway

National and Regional nodes.

Products:

- •Observation data (streams and files).
- •Meta-data (site logs, access conditions, QC, etc..) for all archived data.

Services:

- •Seamless and redundant access to Level 0 data through GSAC derived web-services.
- •Seamless storage and upload of Level 0 data.
- •Conversion from RAW into international standard format (RINEX x.x).
- •Checking of essential meta-data.

GNSS PRODUCTS

LEVEL 1,2,3

GNSS Data Analysis and Derived Products

Structure:

1 EPOS Product GatewayNational and Regional nodes.

Products:

- Real-time to post-processed positions
- Velocity Fields
 - Secular Motions
 - Periodical and no-periodical signals.
- Strain Fields

Services

- •Seamless and redundant access to Level 1,2,3 data through GSAC derived web-services
- •Web-services for online GNSS data processing
- •Repository of existing Level 1,2,3 data.

USER COMMUNITY SUPPORT

Support to GNSS activities for Solid Earth research

Structure: Centralized1 node (EPOS-GNSS Center)

Products:

Services

- •Diffusion of best practices and tools.
- Support to Research projects (e.g., pool of instruments, installation support, data management)
- •Realization of Scientific and Technical Courses.

DEVELOPMENT OF STANDARD TOOLS

(see next slide)

e-Geodesy & common services

Geodetic services for visualisation, discovery and access to portal expert groups, standards

EPOS Integrated Services

Visualisation tool / discovery & access portal high performance and high end computing expert groups, standards

EPOS Volcanology

EPOS Geodetic Products & Services (EGPS)

Steering Committee and Executive Committee

COORDINATION

Coordination

(based on EUREF experience)

Structure: Centralized

1 node (EPOS-GNSS Center)

Products:

- •EPOS Geodetic Web Portal:
 - gateway providing access to the geodetic data/products
 - · gateway interacting with the EPOS ICS
- •Guidelines & Standards

Services

•Day-to-Day Network Management & Coordination of Pillars.

DEVELOPMENT OF STANDARD TOOLS

Development and Maintenance of software tools in support of other pillars

Structure: Distributed

Products:

- •Further Development of GSAC
- •Further Development of online GNSS processing services
- •Further Development of meta-data management tools
- •Development of Interfaces between Pillars (e.g., QC tools)
- *Development of Interfaces between Pillar 5 and ICS
- *Development of Interfaces with existing services (e.g., EUREF)
- •Visualization tools

Services

•Installation support

Interaction with other Solid Earth Sciences

Collaboration with other working groups, namely:

Seismology (WG1)

- Data Standardization
- •GNSS Seismology

Volcanology (WG2)

- •Volcano Instrumentation
- Satellite Data (WG8)
- Co-localization with SAR

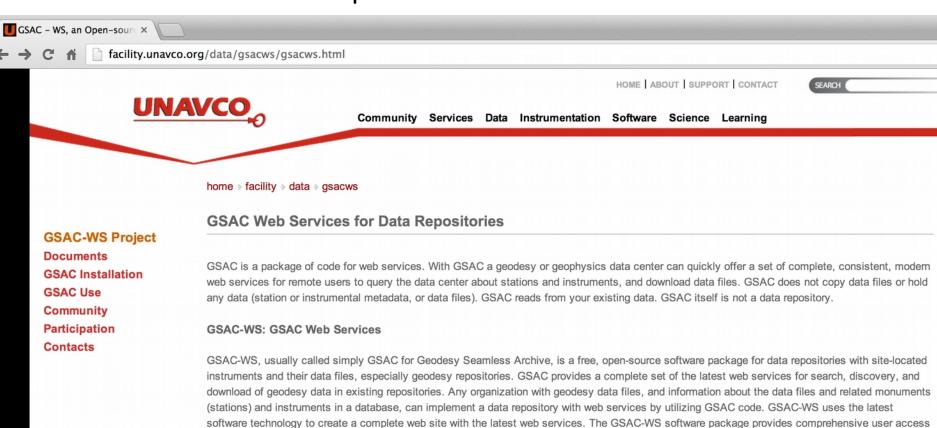
e-Geodesy & common services

Geodetic services for visualisation, discovery and access to portal expert groups, standards

EPOS Integrated Services

Visualisation tool / discovery & access portal high performance and high end computing expert groups, standards

GSAC – Geodetic Seamless ArChive Cooperation with UNAVCO



For more about GSAC and its operation at your geodesy data repository, see the GSAC document UNAVCO GSAC WS: Web Services for Geodesy

to a broad range of space geodetic data including GPS/GNSS, DORIS, SLR, and VLBI.

Data Repositories.