



Data Formats and Standards (Geometric Services)

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- Surveyed geometric services: IGS, ILRS, IVS, IDS (IERS)
- Generated summaries of:
 - General service information
 - Archived data
 - Generated products
 - Site information
 - Mission information (future)
- Listed main formats used for data and products, standards from a data management POV

- Common:
 - Hierarchy of data centers
 - Backup
 - Geographic distribution
 - Data available through public ftp
 - 17+ years of data archived
 - Data archived using temporal parameters
 - Data archived using Unix compression
- Different:
 - Service/data type-specific:
 - Granule
 - Data formats
 - File organization

- Common:
 - Multiple analysis centers provide products for combination and generation of official service products
 - ACs produce positions of network stations, EOP (some other products common to multiple services)
 - Products input to IERS/ITRF
 - Selected analysis software
- Different:
 - Service-specific products
 - Analysis software

- Common:
 - Site logs
 - Site information
 - Instrument information
 - Local ties
 - Meteorological instrumentation
 - Contact information
 - DOMES numbers identification
 - Other site documentation (maps, photos)
- Different:
 - Service-specific site designators
 - Technique-specific descriptions

- Common:
 - Web site
 - Mailing lists for communication
 - Publications (annual reports, workshop proceedings)
 - Bibliography and citations

- Each service promotes use of standard formats for data and products within the service
- Common:
 - SINEX – for site positions
 - SP3 – for satellite orbits (SP1 IDS)
 - Site log (similar structures)
 - Center “log” - similar structures for participant descriptions (ACs, DCs, etc.)
- Different:
 - Data formats
 - Service-specific products and formats

- Standards will allow for extraction of metadata and comparison/combination so...
 - Promote use of “standards” for product formats (e.g., SP3c, SINEX, EOP, IONEX, etc.) across services
 - Modify standard formats to include metadata recommendations
 - Collect similar information in site logs, center logs
- Other
 - Maintain service summary information (include mission info)
 - Implement Google Earth databases