GRGS participates in the International Laser Ranging Service (ILRS) as an Analysis Center. Multi-satellites NEQ matrices produced for the GRGS combination project are also used to perform the ILRS Analysis Center SINEX solutions. (See postscript EU2009-20092, session 96: Past current and future research and operational activities of the GRGS/ILRS Analysis Center).

### Data analysis

- **DORIS observations**: network of 50 stations
- **SLR observations**: network of 30 stations
- **VLBI observations**: network of 100 receivers

#### Combination of observations

- **EOP by Combinations**: EOC-30302007-2008

#### Methods

1. Atmospheric load effect are removed from station positions
2. Troposphere parameters are reduced and a priori EOP are fixed to ITRF2008
3. Daily linear constraints on pole: UT1 and mutation are applied to the correction and reduced to one point per day at 12h
4. Weekly NEQ reduced at daily sampled for EOPs & weekly station coordinates for VLBI, GPS, SLR and DORIS techniques, are weighted
5. Weighted NEQ are cumulated and converted to SINEX format

#### Conclusions

- The combination of four geotechniques is routinely performed and the resulting conservation level. Cumulated NEQ unconstrained are delivered in SINEX format to ITF Regional Analysis Center at LAREG/IGN to contribute to the future ITRF EOP series with at 1-day intervals as well as weekly station positions have been simultaneously computed for the two years 2007-2008
- These solutions are produced on a regular basis and made available to ERS.

### Abstract

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