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National Report of Switzerland

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Geostation Zimmerwald

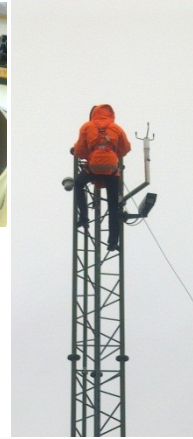
- GNSS
 - ZIMM/ZIM2 sites deliver GPS/GNSS data to IGS/EUREF
 - ZIM2 with RINEX3.0 submission to IGS and EPN (Aug. 22, 2011)
 - ZIMJ: new GNSS-capable receiver installed (M-GEX contribution)



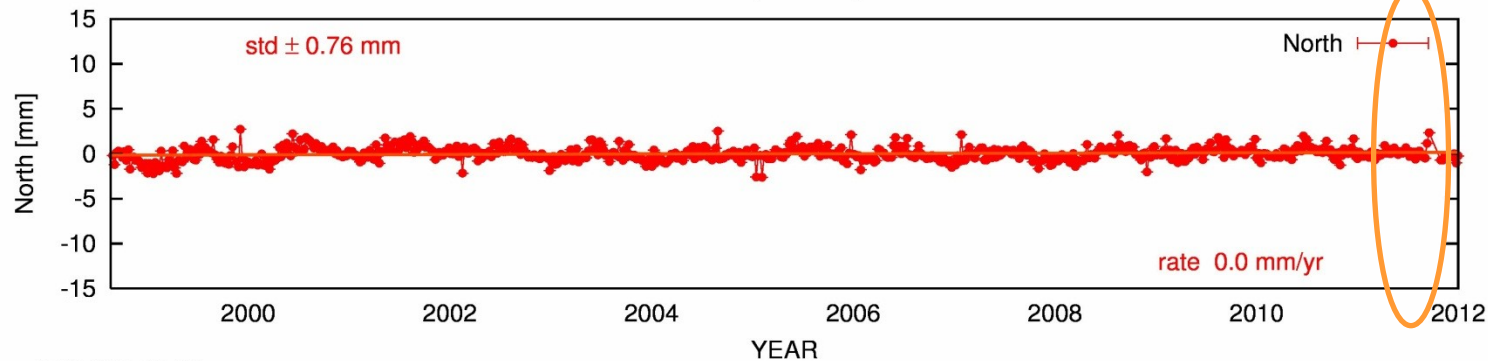


„Rescue“ activity ZIMM

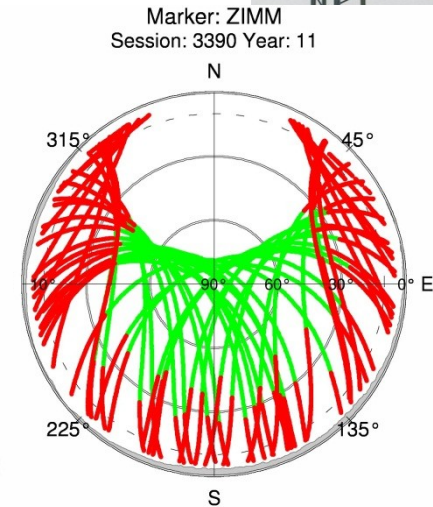
- Pre-amplifier replaced – time series since 1998 continued without jump



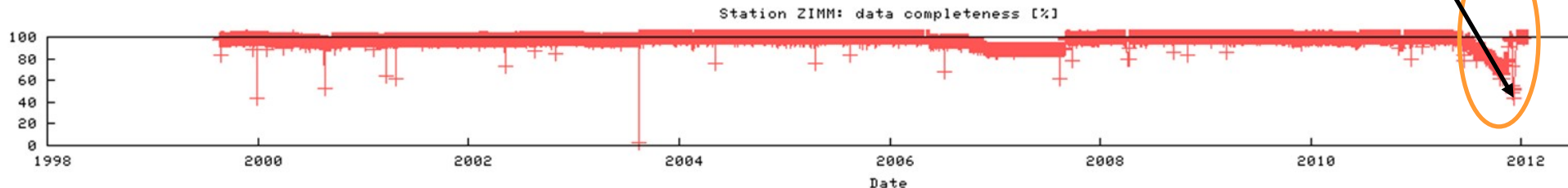
Coordinate repeatability of ZIMM



24/01/12 11:17



~50% of possible observations





Mast stability during a hot day in 2011

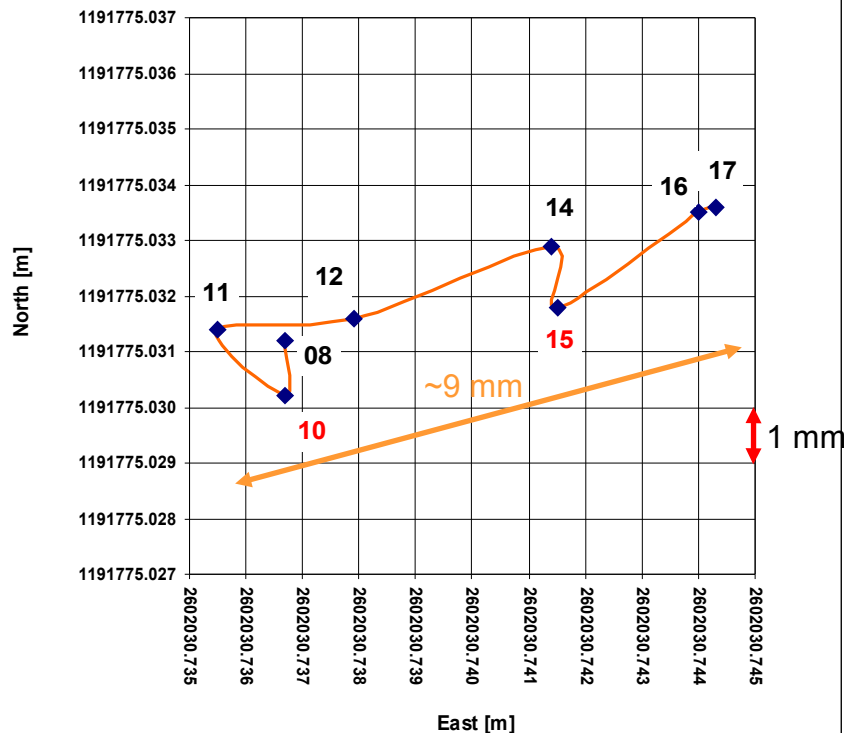
- Hourly local ties at: 08,11,12,...,17 MESZ (hot day: 21-30 degrees)

GPS mast ZIMM

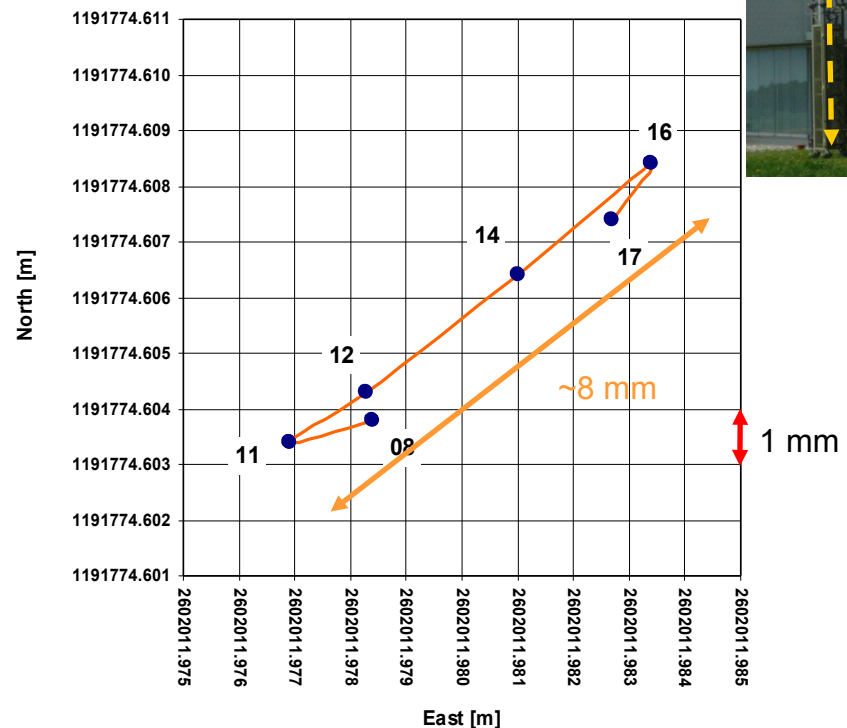
GPS/GLONASS mast ZIM2



Variation MAST.GPS



Variation MAST2.GPS

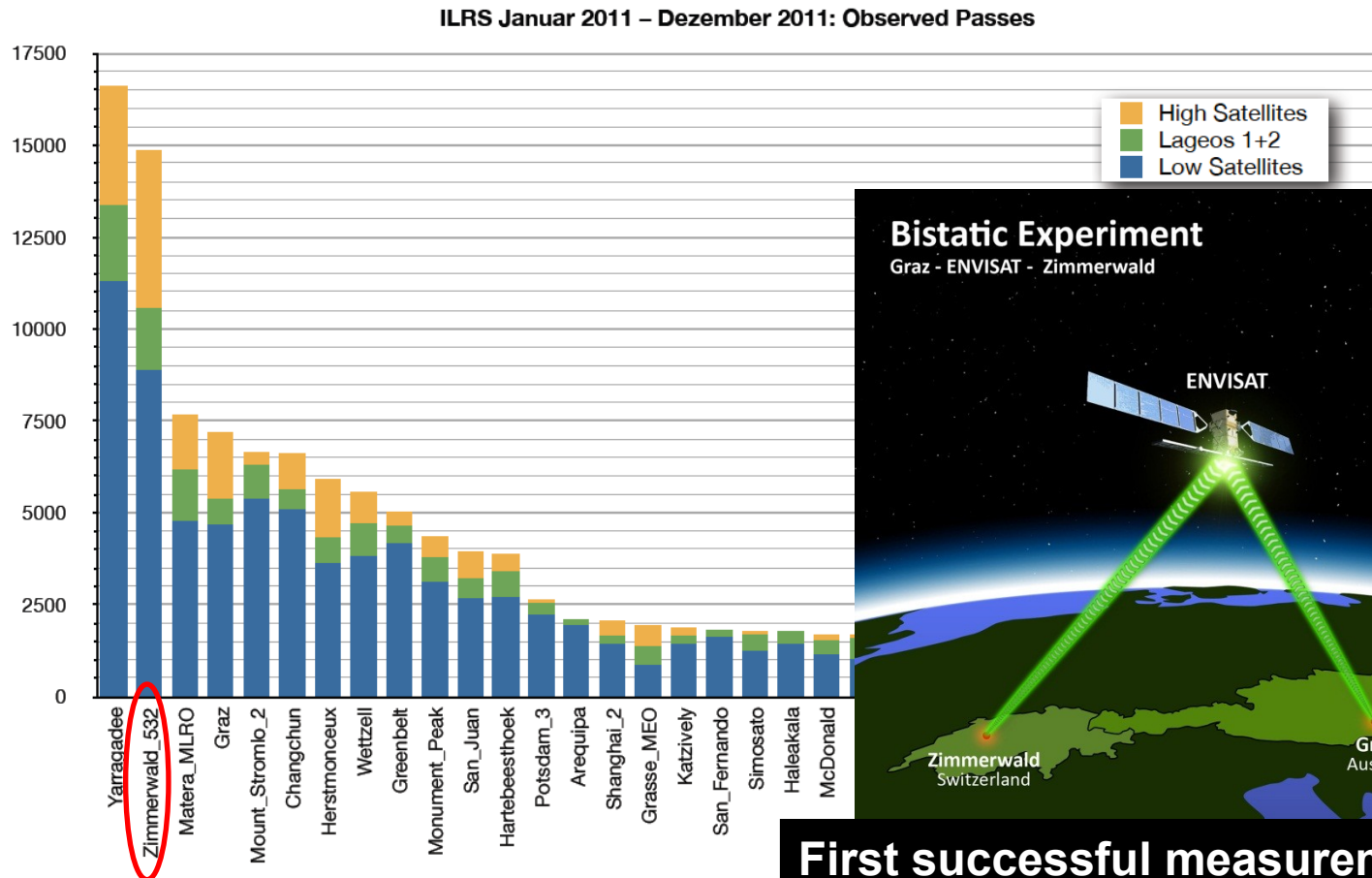




Zimmerwald - SLR

Best week ever September 2011:
450 -> 572 satellite tracks (+27%)

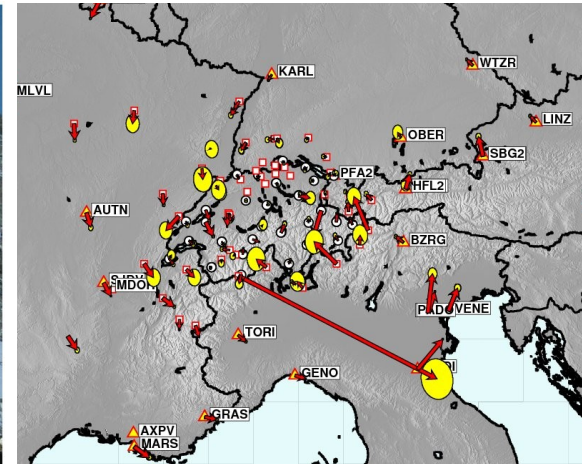
- 2011 statistic:



**First successful measurements
conducted on March 28, 2012**



AGNES / Permanent Networks



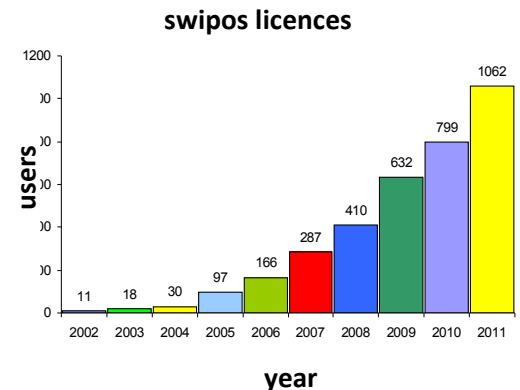
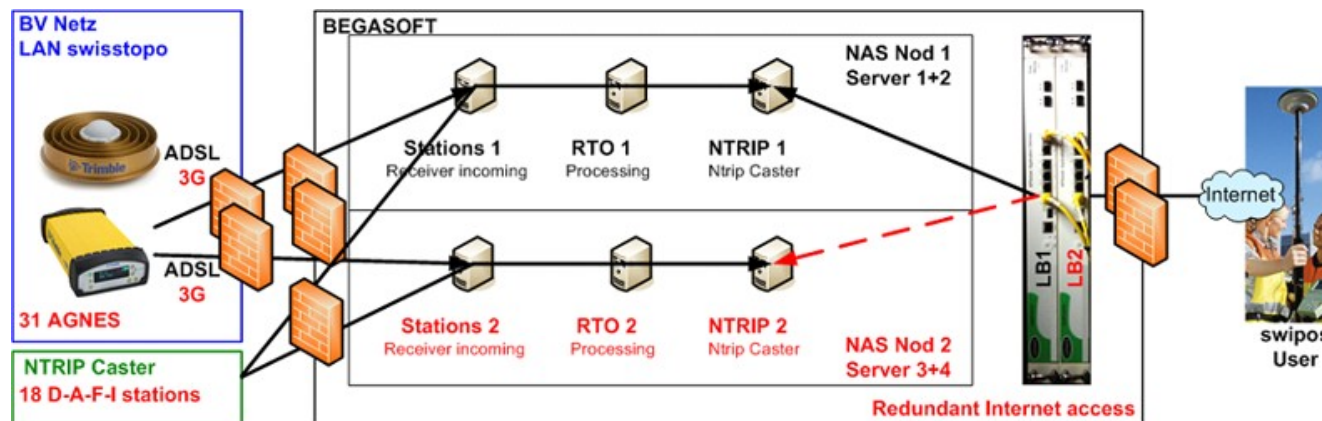
Hörnligrat (HOG) with a velocity of 18 mm/yr

- 3 stations with new set-ups (Sep.-Oct. 2011): AND2, SAR2, FRI3
- 3rd-party stations (~13) included in the AGNES processing chains mainly for tectonic purposes
- Quicker delivery of weekly EPN contribution after model changes (ITRF2008/IGS08.ATX) of week 1632 (April 2011)



Positioning service: swipos

- For the real-time Position Service swipos changed the basic infrastructure beginning 2012:
 - New computer center (outside federal networks)
 - Redundant server
 - New Trimble software (from GPSNet to VRS3NET)
- Month April 2012: all customers switched to the new service.





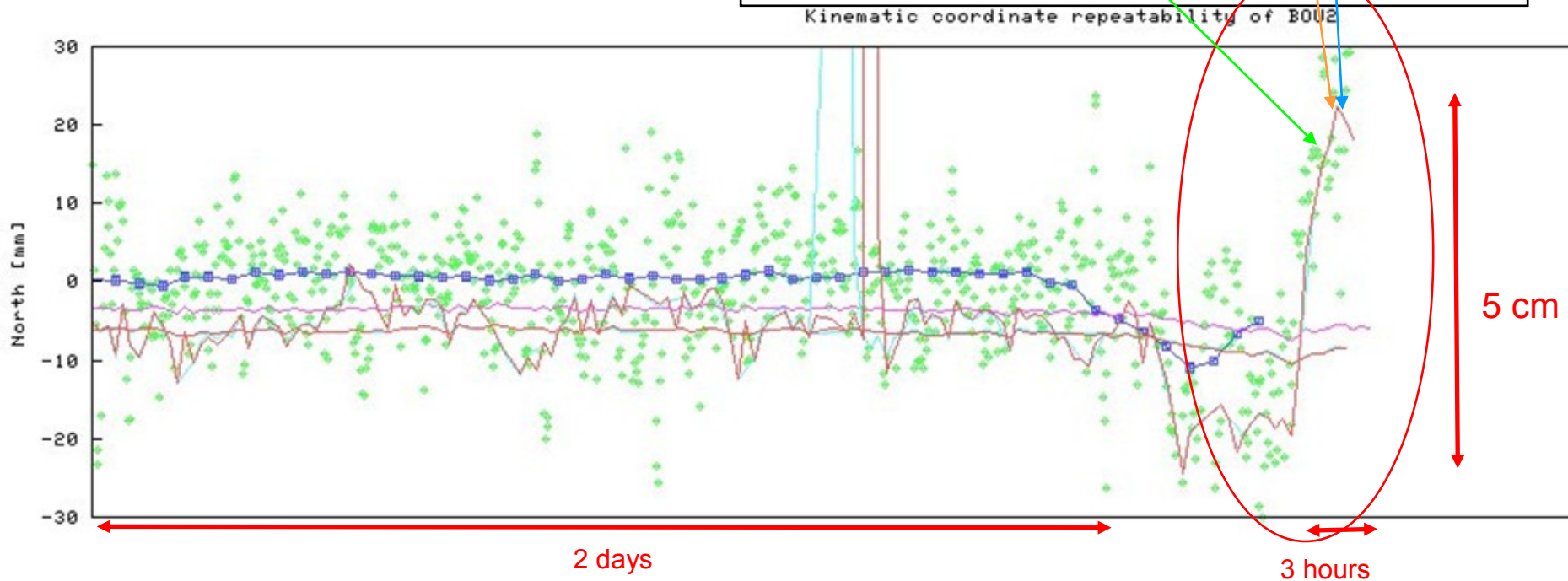
Comparison Real-Time (Trimble) – Near Real-Time (Bernese Software)

- coordinates: good agreement for „Rapid Motion“ solution type .

Trimble network monitoring
(old+new) useless !

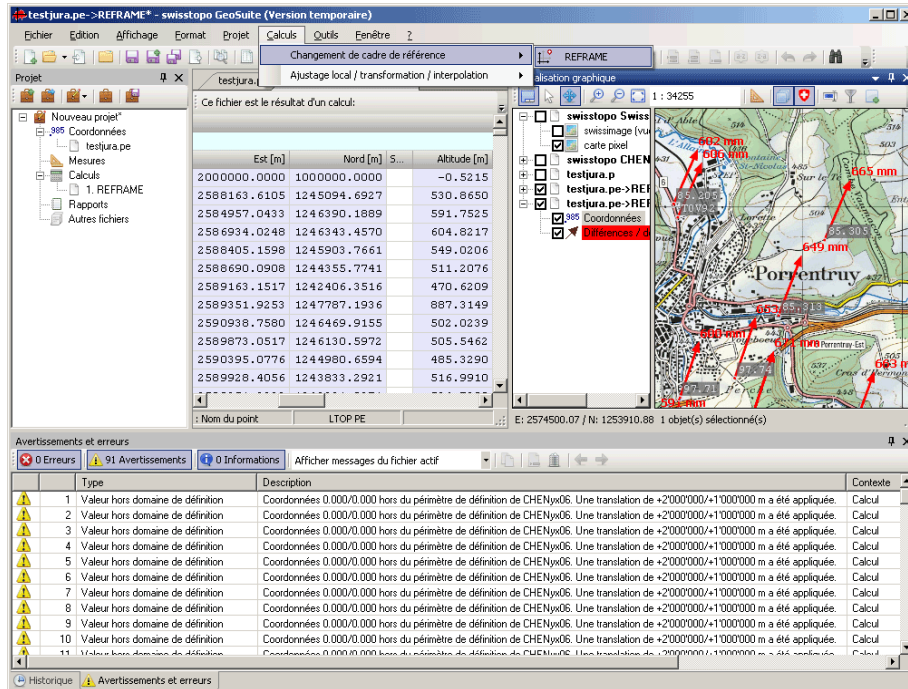
Bernese kinematic
Bernese near real-time (1 hour)
Trimble GPSNet (old)
Trimble VRS3Net system 1 (new) – „Network / Rapid Motion“
Trimble VRS3Net system 2 (new) – „Network / Rapid Motion“

Station BOU2, 24.1.2012, snow problems





Various items



April 1861 Denkschrift J.J. Baeyer

Ueber die
Grösse und Figur der Erde.

Eine Denkschrift

zur

einer Uebersichtskarte

von
J. J. Baeyer.

Geodätischer u. s. w. vortragender Vortrag der Königl. schweizerischen Anstalt der
Königl. Anstalt, vortragender Vortrag der Königl. schweizerischen Anstalt der
Königl. Anstalt, vortragender Vortrag der Königl. schweizerischen Anstalt der

Berlin.

Druck und Verlag von Georg Reimer.

1861.



Program **GeoSuite**: “container” for Geodesy software; example visualizing differences of reference frame change LV03->LV95 (program REFRAME) – release in 2012

150 years anniversary of the **Swiss Geodetic Commission** common history with IAG (1 year older)