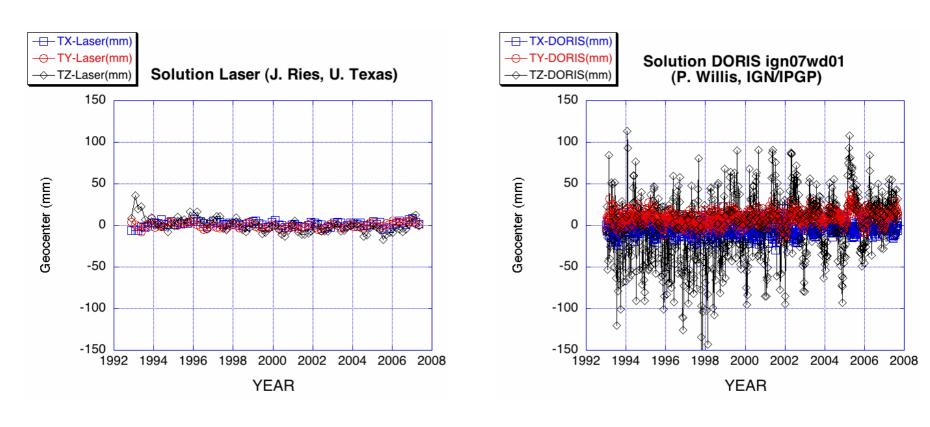
Estimation of Solar Radiation Pressure (SRP) coefficents and impact on DORIS-derived Z-geocenter

Pascal Willis, Marie-Line Gobinddass

SUMMARY

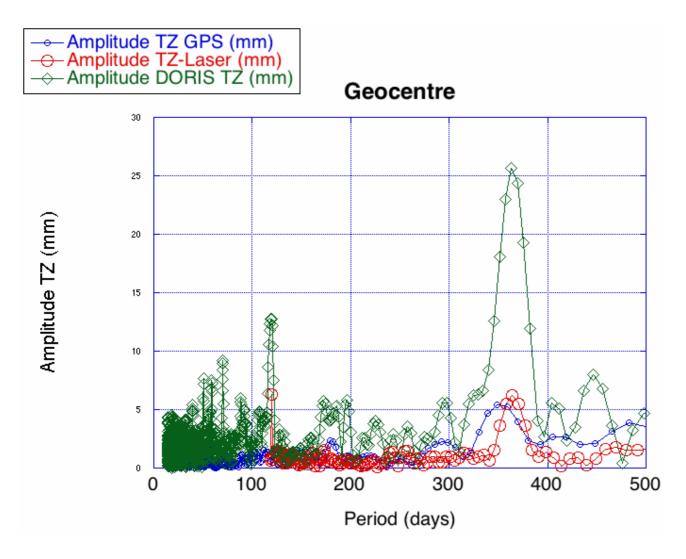
- Currents errors in Z-geocenter
- Why Z-errors are correlated with SRP?
- Estimating daily SRP coefficients
- Update current geocenter solutions (fixing SRP coefficients)
- Conclusions

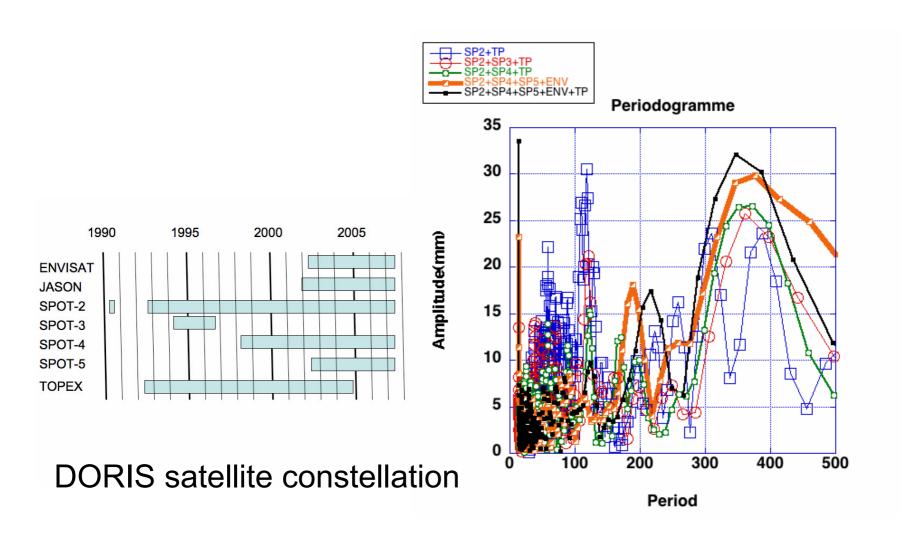


Laser/ U. Texas

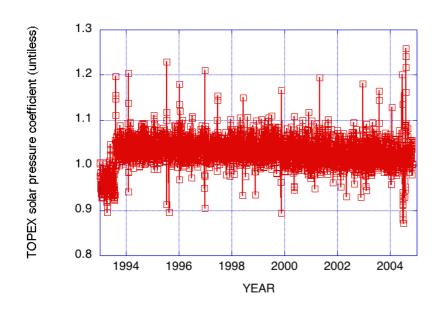
DORIS/IGN

Erroneous signal = 1year + 118 days

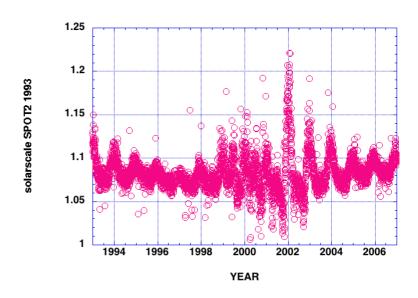




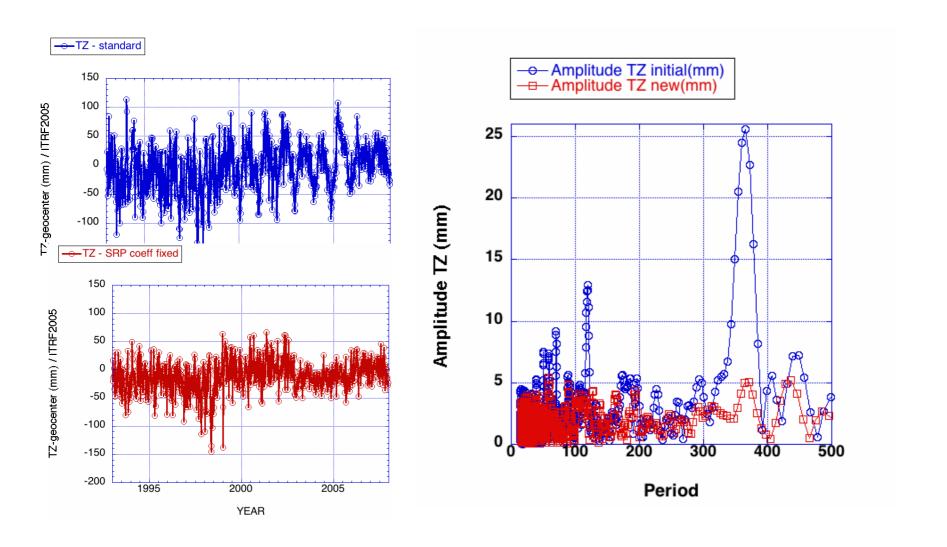
Estimating daily SRP coefficients



1/rev = 0 (fixed)
Coordinates = free



DORIS recomputation



CONCLUSIONS

- •Need to fix daily SRP in future IGN (IDS?) solutions (preliminary solution provided to Zuheir Altamimi)
- Need to discuss with other AC to adopt values
- Need confirmation from CNES (discontinuity TOPEX 27-JUL-1993?)

Additional studies (long time series of products and residuals)