

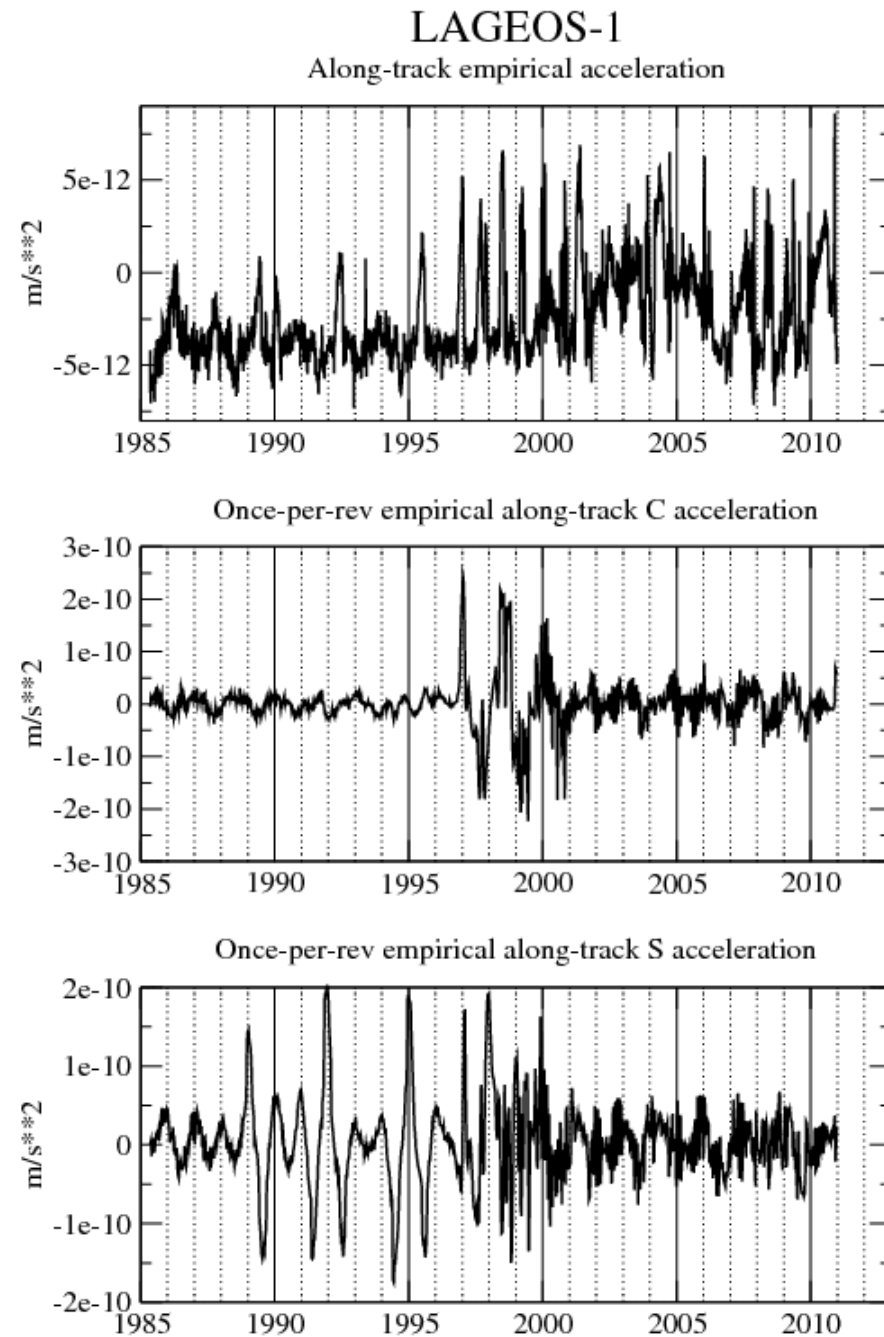
SLR processing at GRGS

F. Deleflie, F. Reinquin, R. Biancale, J.M. Lemoine

COL-WG Munich May 2012

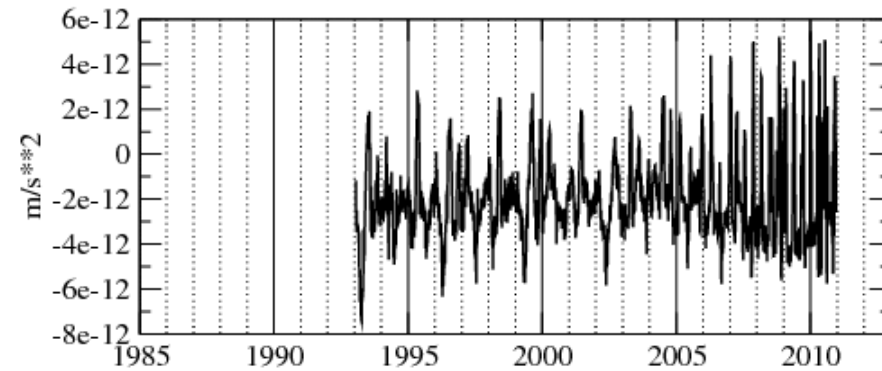
LAGEOS-1 empirical accelerations

COL-WG

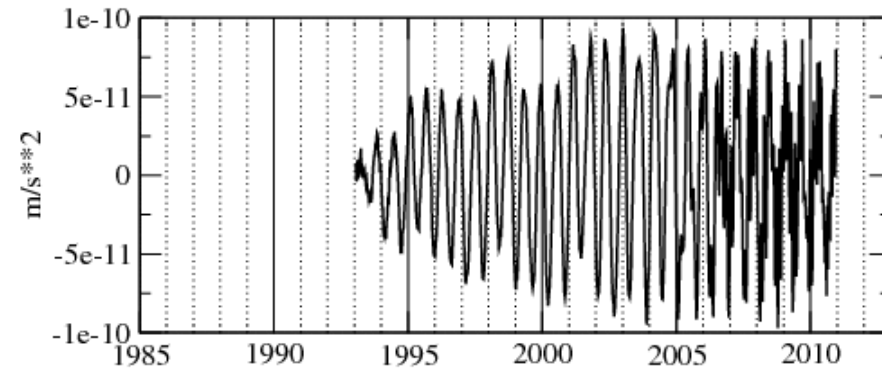


LAGEOS-2 empirical accelerations

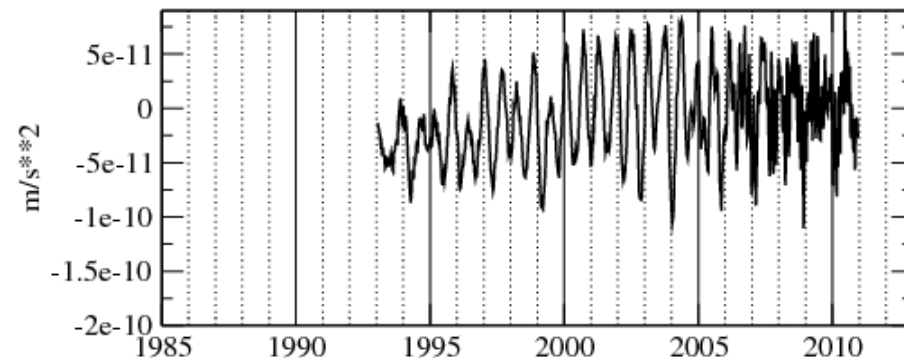
LAGEOS-2
Along-track empirical acceleration



Once-per-rev empirical along-track C acceleration



Once-per-rev empirical along-track S acceleration



COL-WG

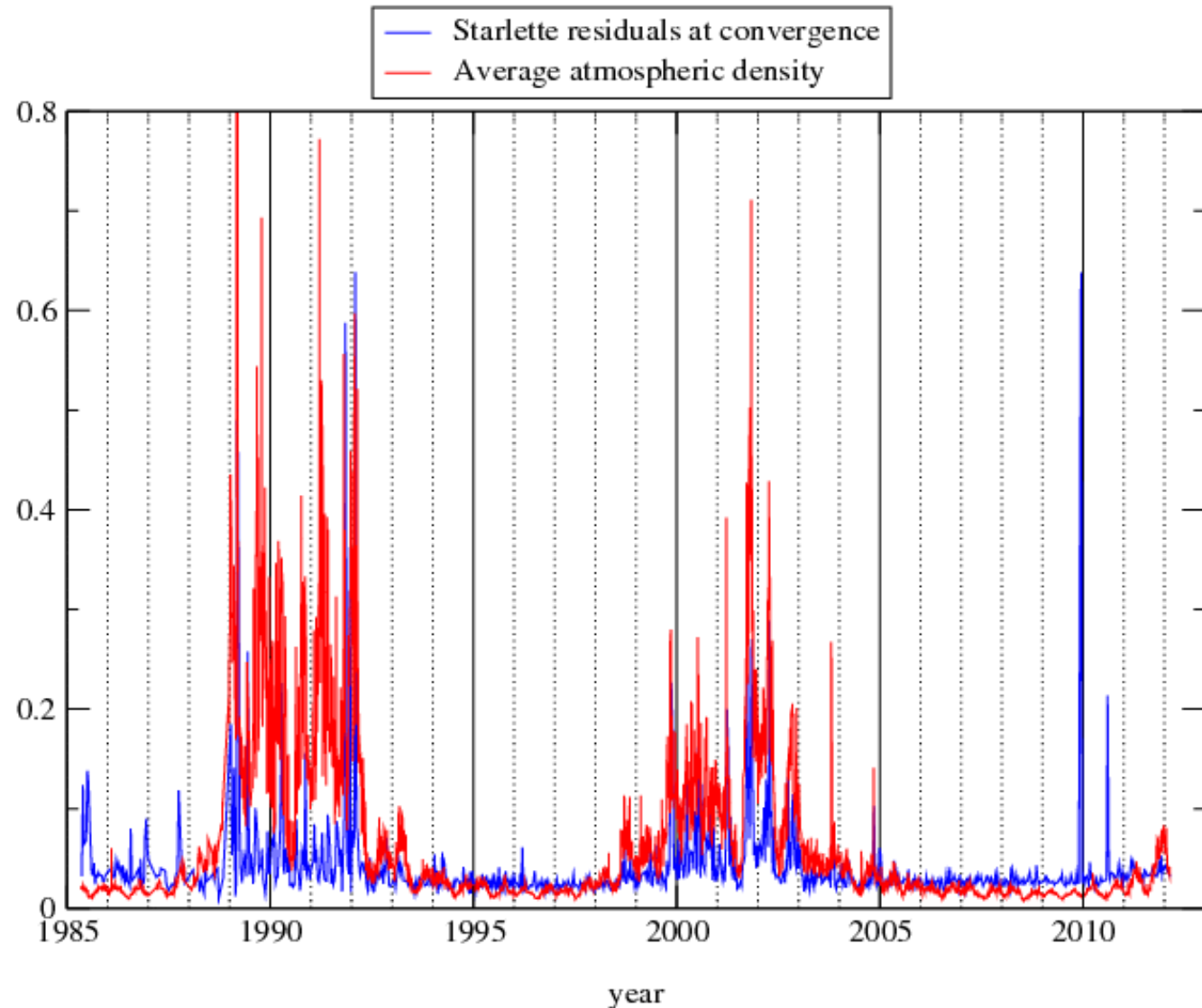
STARLETTE residuals

➤ 10-day arcs

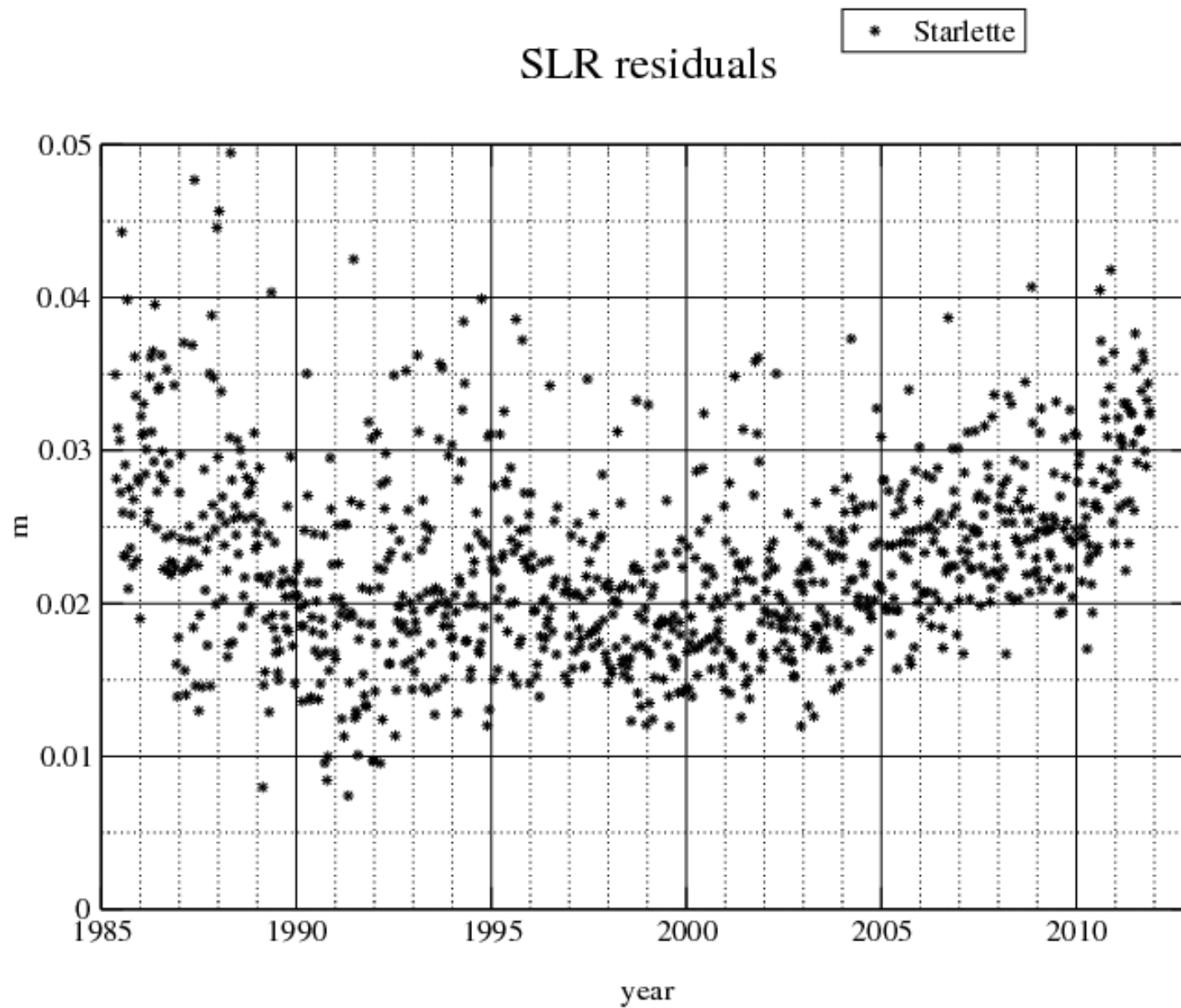
1 drag / 2 days

Correlation of the level of residuals with the average atmospheric density

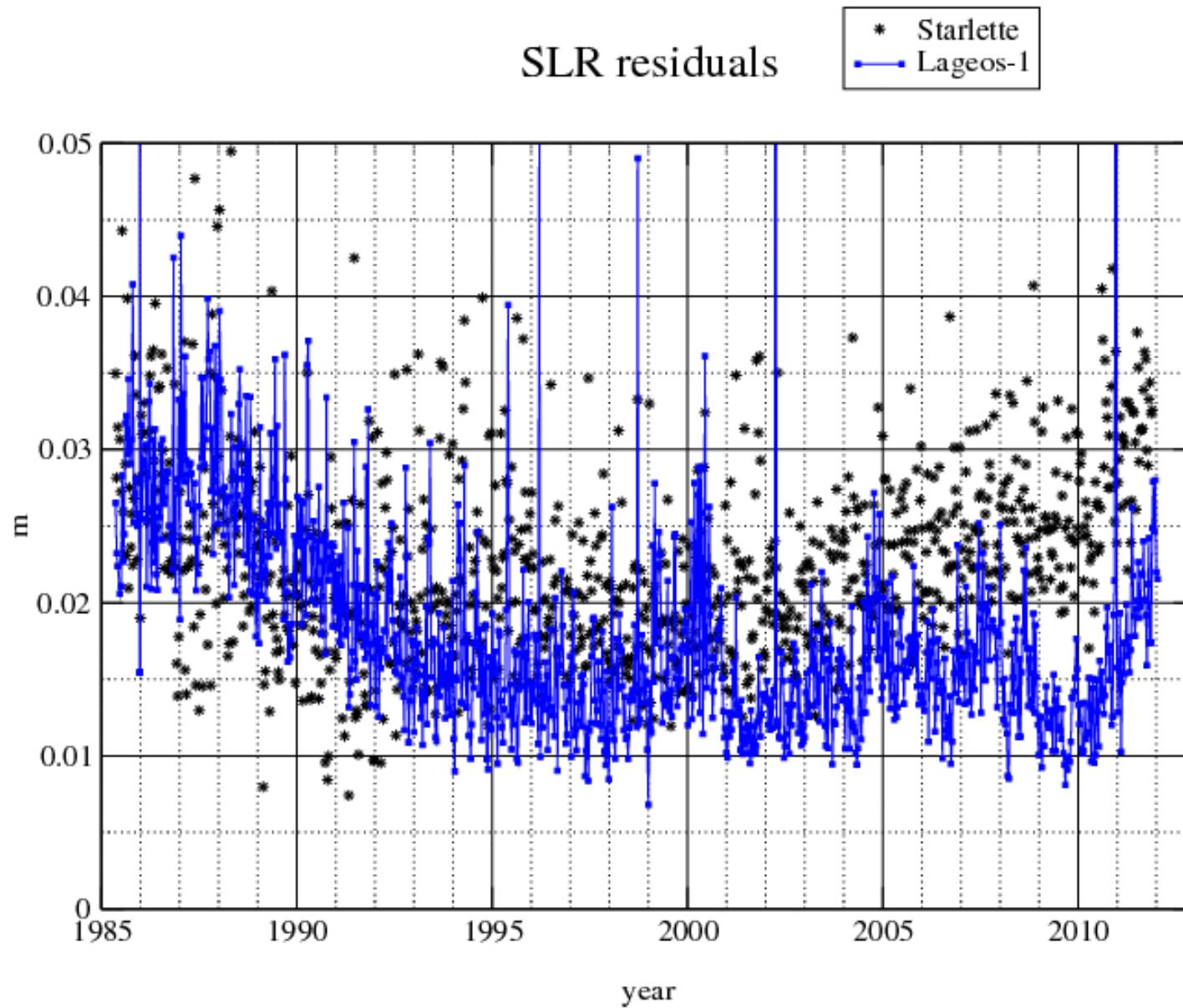
decision was taken to use 1 drag coef. / day in low solar activity and 2 coefs. / day in high solar activity



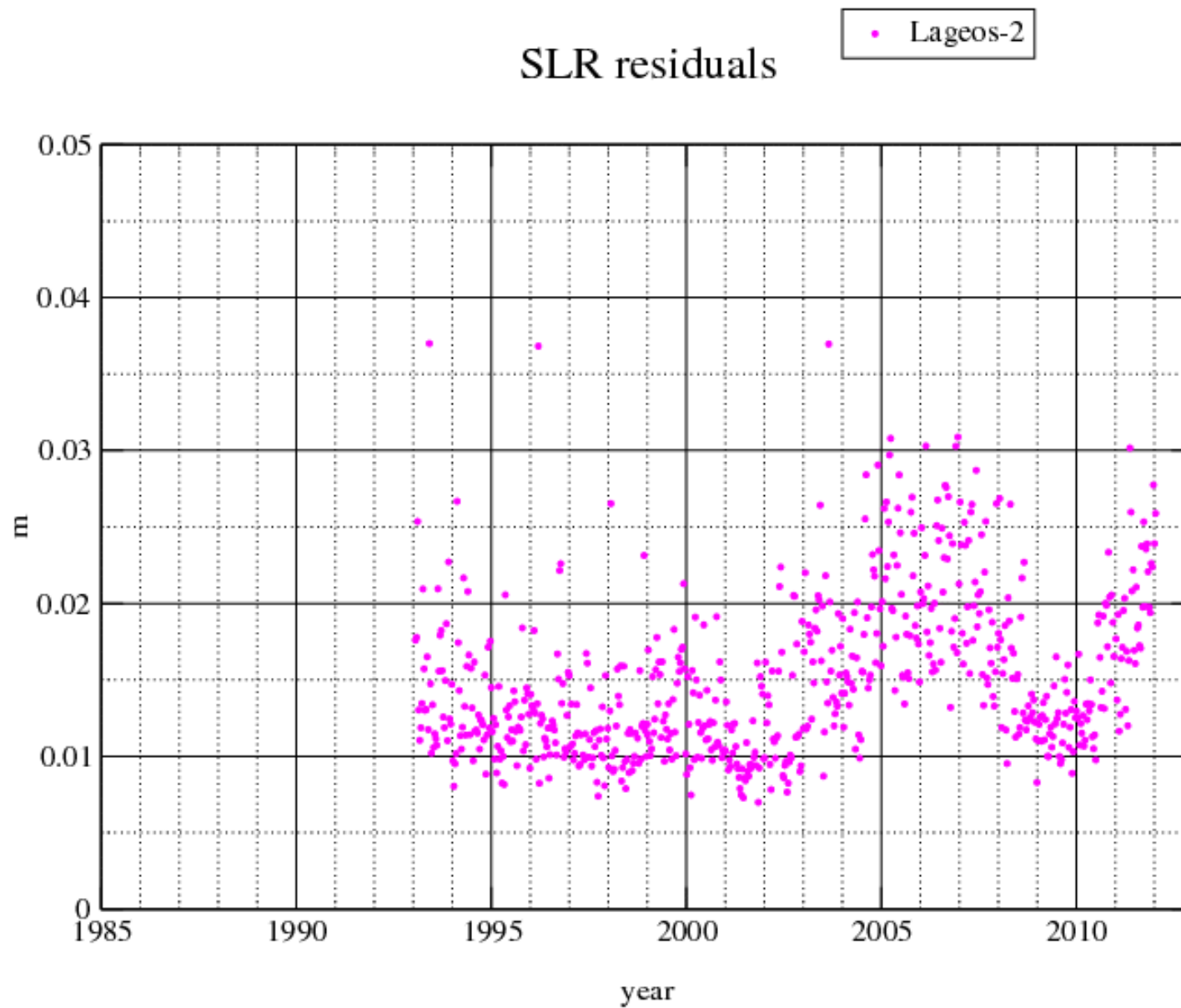
Final STARLETTE residuals



STARLETTE and LAGEOS-1 residuals



LAGEOS-2 residuals



Residuals for the 3 satellites

