

ENVISAT CoM study (CNES/LCA orbits)

- Over 70 days (20 x 3.5 day arcs) in March/April 2008
- Cross-track = X, Along-track = -Y, Radial = Z
- CoP-CoM figures at epoch 2008/03/01:

	X	Y	Z
DORIS	.31683550000000E+01	.10760000000000E+01	.17280000000000E+01
LASER	.10363550000000E+01	-.13590000000000E+01	.11830000000000E+01

Remark: for the X drift of the CoM, we use a linear law instead of discrete steps but the difference between both approaches is always below .5 mm.

Solving for Radial and Cross-track CoM, independently for the Doris-only and Laser-only orbits:

- **Radial** offset of CoM DORIS: **-18.9 mm**; from Laser: **-18.5 mm**
- **Cross-track** offset of CoM DORIS: **15.5 mm**; from Laser: **15.4 mm**
- The mean of the “DORIS troposphere zenithal biases” remains below 2 mm
- The mean of the “Laser station range biases” remains below 1 mm
- The mean of the geocenter solutions remains below 4 mm in X, 8 mm in Y but reaches 32 mm in Z for DORIS (only -3 mm in Z for Laser)