

# CryoSat Interferometer: end-to-end calibration and achievable performance

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- ❑ In orbit calibration campaigns for the CryoSat interferometer have been performed since 2010 in order to evaluate the end-to-end performance
- ❑ Is it possible to improve the end-to-end performance of the Interferometer by ground processing ?

**the accuracy of the roll can be improved** by properly correcting the mispointing angles for the aberration of light

End-to-End performance	Requirement	BaselineC	BaselineD
Residual across-track accuracy @2000km	141 $\mu\text{rad}$	105 $\mu\text{rad}$	23 $\mu\text{rad}$
Residual across-track precision @1Hz	60 $\mu\text{rad}$	32 $\mu\text{rad}$	32 $\mu\text{rad}$

- ❑ In CryoSat BaselineD Level1 products it is planned
  - ❑ to apply properly the correction for the aberration of light
  - ❑ to update the roll bias and the pitch bias
  - ❑ to apply different biases as function of Star Tracker in use