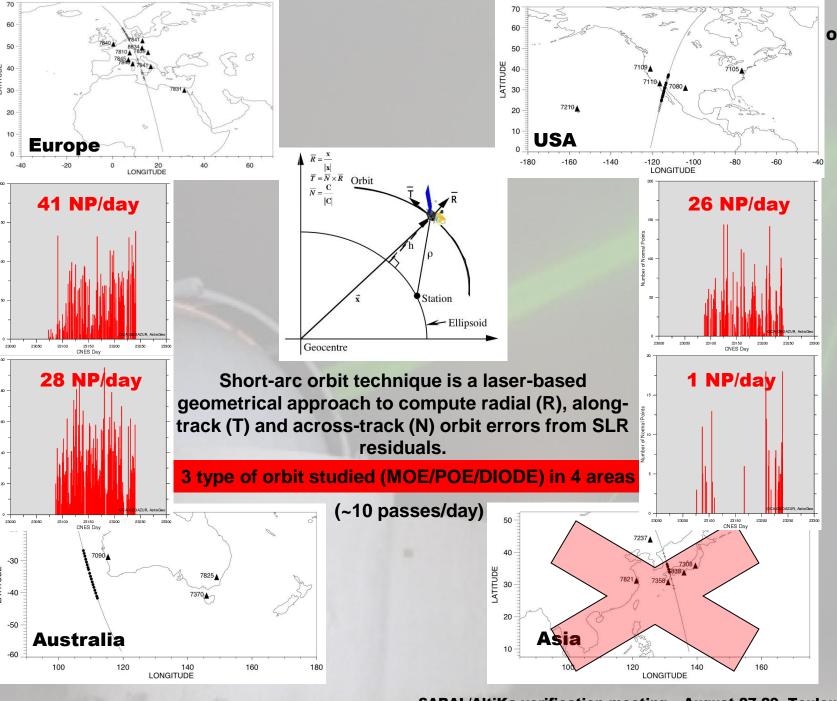


# Orbit Quality Analysis Through Short-arc Technique Preliminary results

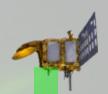
P. Bonnefond<sup>(1)</sup>, O. Laurain<sup>(1)</sup>, Amandine Guillot<sup>(2)</sup>, Nicolas Picot<sup>(2)</sup>, Luca Cerri<sup>(2)</sup>, Christian Jayles<sup>(2)</sup>, Cédric Tourain<sup>(2)</sup>

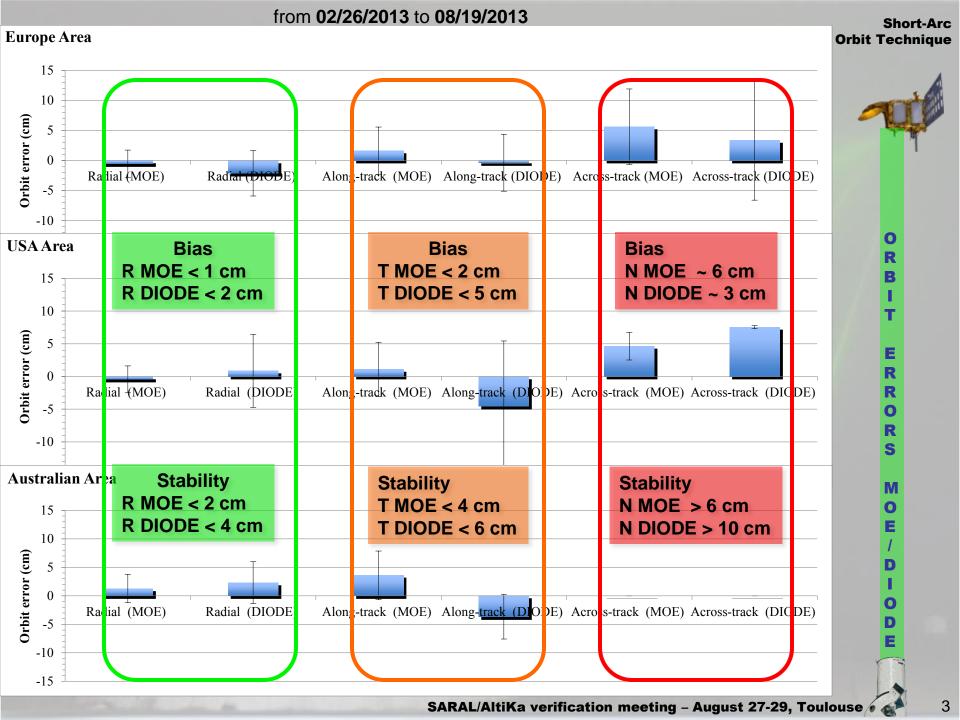
(1)OCA/Geoazur, Grasse, France (2)CNES, Toulouse, France

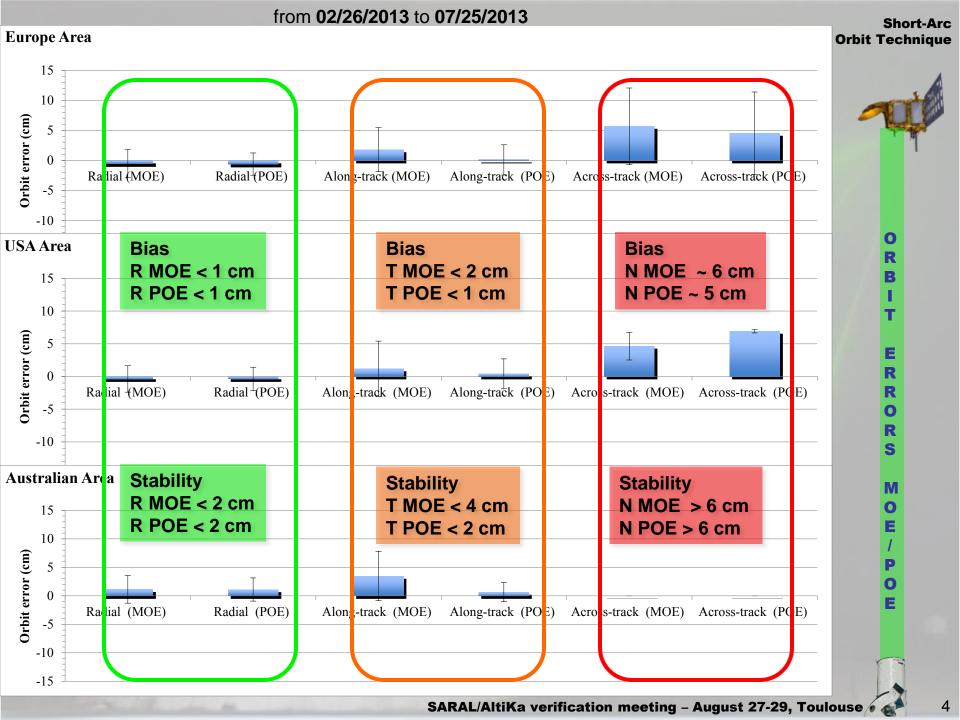
SARAL/AltiKa verification meeting – August 27-29, Toulouse











#### SLR data:

Number of normal points increased since June meeting (from 33 to 41 NP/day over Europe) Remains low in average for USA and Australia ~27 normal points per day



### **Radial orbit errors:**

Stability better than 2 cm for MOE and POE
Stability better than 4 cm for DIODE
Small geographically correlated errors (below 1 cm for MOE and POE, 2 cm for DIODE)
Maybe a small hemispheric effect: -5 mm (Europe/USA) / +10 mm (Australia)

## **Along-track orbit errors:**

Stability better than 2 cm for POE Stability better than 4 cm for MOE Stability better than 6 cm for DIODE

#### **Across-track orbit errors:**

A large bias of ~5 cm for both POE, MOE and DIODE also large standard deviation (6-10 cm)

Instrument referencing (CoM position)? Correlation with beta angle (Radiation pressure)?

Radial orbit precision is very close for both MOE and POE
Correlation = 67 to 92% / Slope = 0.6 to 0.8