Calibration/Validation and data consistency

FROM SPACE TO SEA

✓ Orbit (gravity field, tracking data, ...)

✓ Range (bias, retracking, ...)

✓ Corrections
  • Ionosphere
  • Troposphere (Dry and Wet)
  • Sea State Bias
  • Other corrections

Toward a better consistency between grand father, father and son
In terms of Sea Surface Height bias
But also in terms of stability (models, instruments, ...)

Goal is to link altimetric missions at few mm and below 1 mm/yr level

Do we learn enough from the past 4 months of Jason-1/Jason-2 Formation Flight Phase to move Jason-1 to a new orbit or do we need more time?
Value of Node Closest to HARVEST = 150 mm

Value of Node Closest to SENETOSA = 117 mm

Value of Node Closest to BURNIE = 154 mm

\[ \text{NORTH} \]
Mean = 148.1 mm
\( \sigma = 12.7 \) mm

\[ \text{TROPICS} \]
Mean = 152.1 mm
\( \sigma = 11.4 \) mm

\[ \text{SOUTH} \]
Mean = 172.5 mm
\( \sigma = 10.9 \) mm

\[ \text{NORTH} \]
Mean = 160.0 mm
\( \sigma = 12.0 \) mm

\[ \text{TROPICS} \]
Mean = 154.1 mm
\( \sigma = 10.7 \) mm

\[ \text{SOUTH} \]
Mean = 164.6 mm
\( \sigma = 10.8 \) mm