

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?

Jason-1 - T/P Sea Surface Height

Formation Flying Phase (Jason-1 Cycles 1-21)



Ascending Tracks

NORTH
 Mean = 148.1 mm
 σ = 12.7 mm

TROPICS
 Mean = 152.1 mm
 σ = 11.4 mm

SOUTH
 Mean = 172.5 mm
 σ = 10.9 mm

Descending Tracks

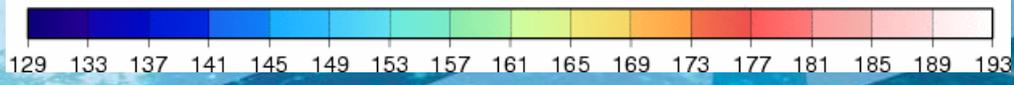
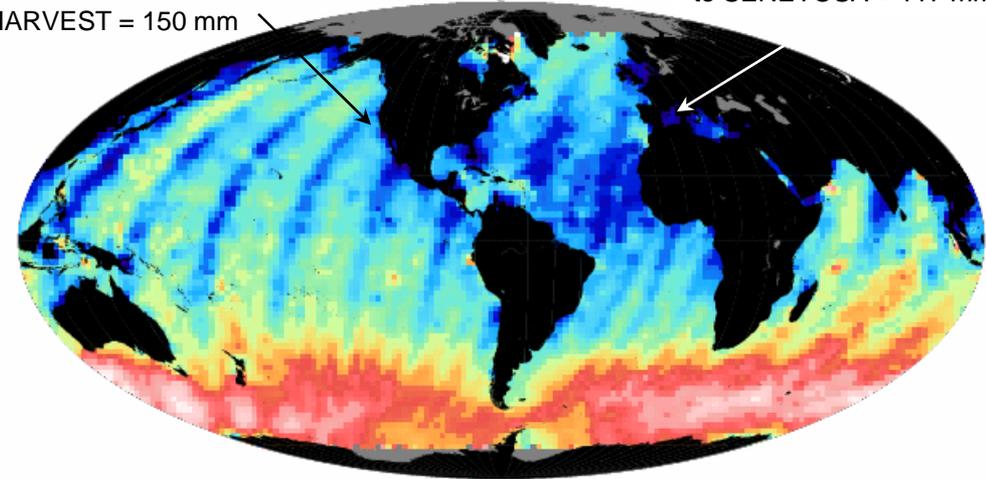
NORTH
 Mean = 160.0 mm
 σ = 12.0 mm

TROPICS
 Mean = 154.1 mm
 σ = 10.7 mm

SOUTH
 Mean = 164.6 mm
 σ = 10.8 mm

Value of Node Closest to HARVEST = 150 mm

Value of Node Closest to SENETOSA = 117 mm



Value of Node Closest to BURNIE = 154 mm

