

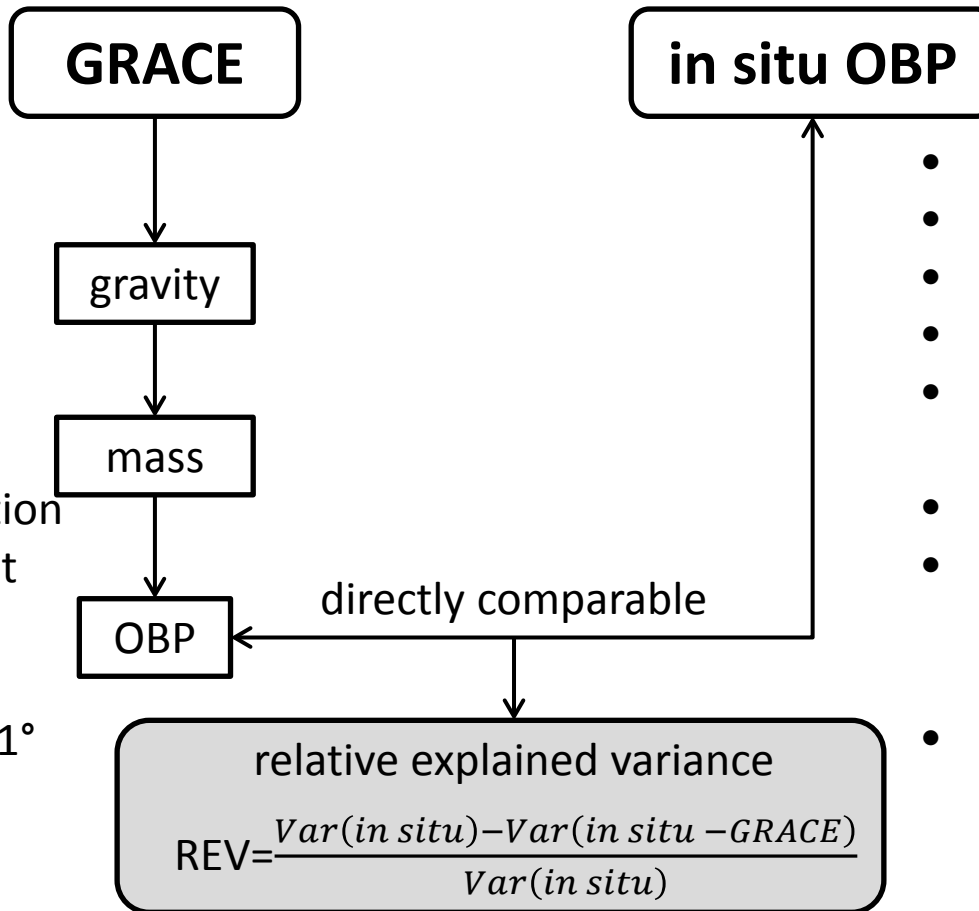
Validation of the EGSIEM combined monthly gravity fields with OBP

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Introduction

Post-processing of GRACE data:

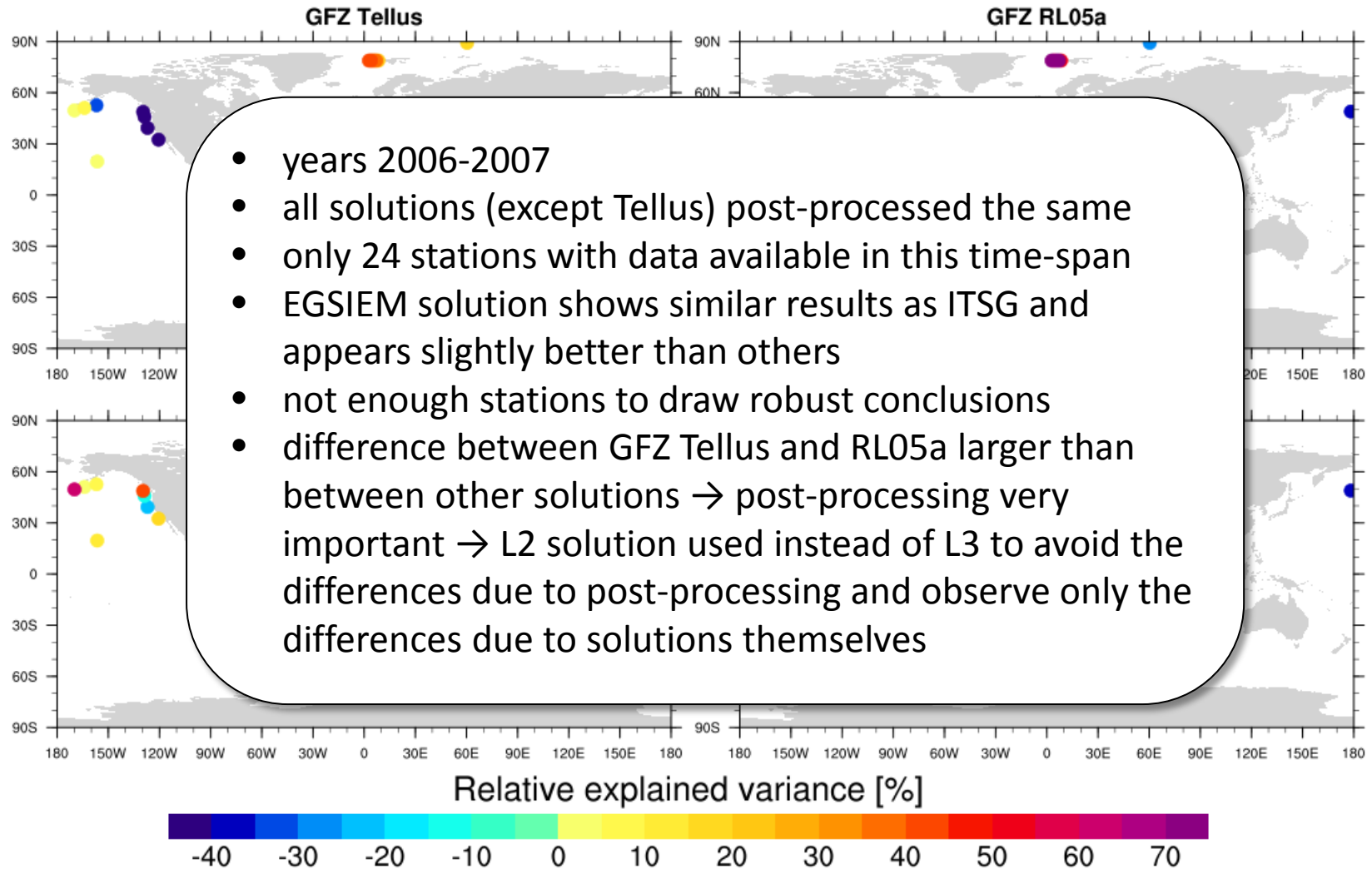
- adding degree-1 coefficients
- replacing the C20 coefficient with solutions from SLR
- removing mean
- applying GIA correction (model by Paulson et al., 2007)
- DDK1 filter
- re-synthesizing to a 1° grid
- GAD product added back



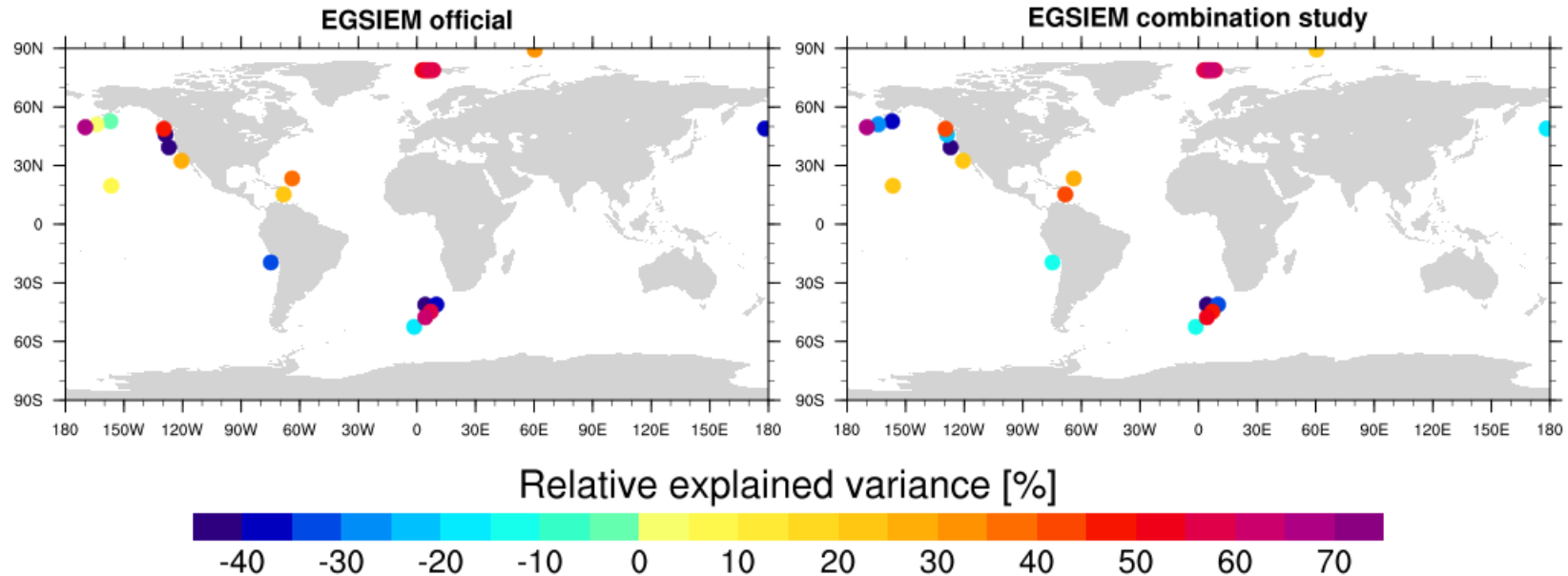
Preparation of in situ data:

- removing drifts
- removing jumps
- removing trends
- checking for outliers
- temporal sampling to 1 h
- removing tidal signal
- stacking time-series from the same station
- calculating monthly mean

Validation of the official solution



Comparison with the unofficial solution



- comparison of the EGSIEM official solution (L2) against the longer solution from the combination study by Y. Jean
- only years 2006-2007 used for comparison
- solutions very similar → the longer combination study can be used for validation against in situ OBP since 2 years of the official solution is not enough

Validation of the combination study

