

Evaluation of tropospheric estimates from CentipedeRTK, a collaborative network of low-cost GNSS stations

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Supplementary Materials

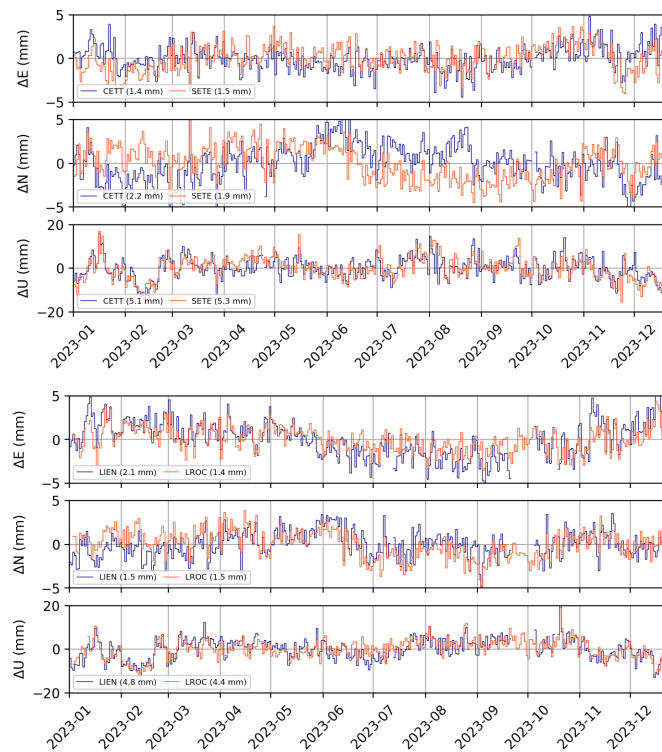


Fig. S1 Variations of the daily East, North and Up positions of the CETT and LIEN CentipedeRTK stations and the nearest conventional stations SETE and LROC. The East, North and Up values are calculated in relation to the average position of each station in RGF93.v2b.

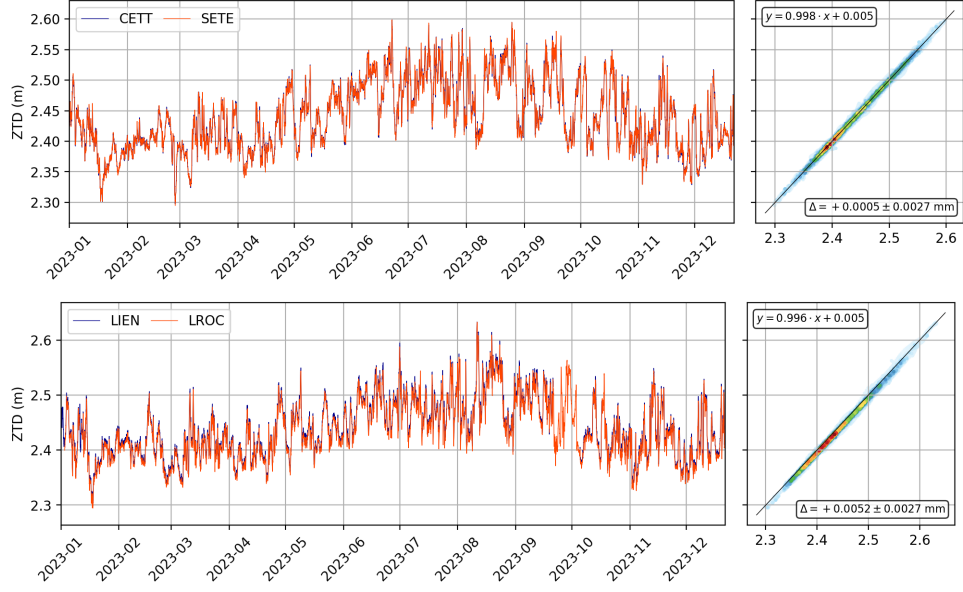


Fig. S2 Left: Time series of ZTD estimated for the CETT (top) and LIEN (bottom) CentipedeRTK stations and for the nearest conventional stations, SETE and LROC. Right, cross-plot of estimated ZTD for each pair of stations; the colors represent point densities (the highest densities are represented by the warmest colors).

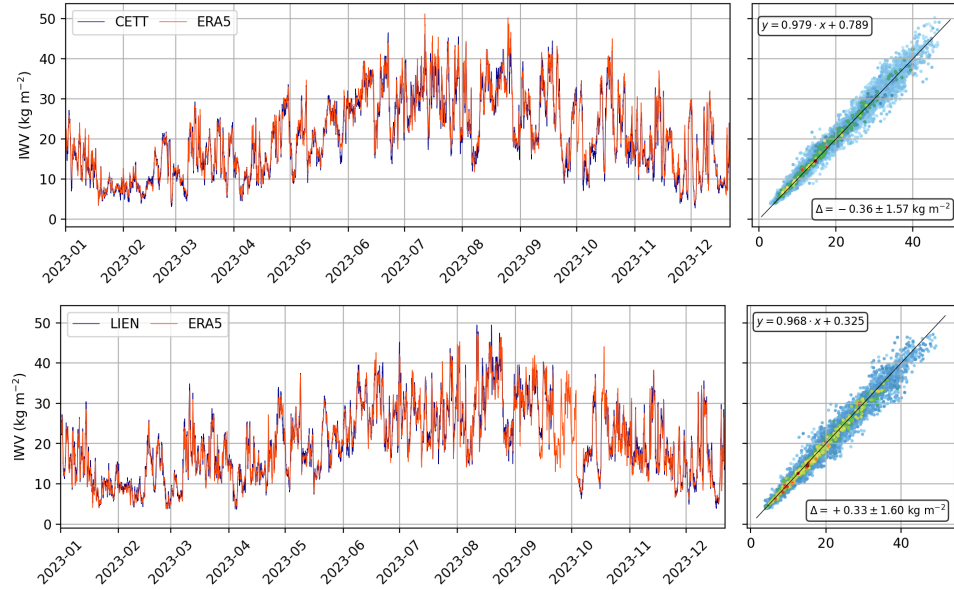


Fig. S3 Left: Time series of IWV calculated for the CentipedeRTK CETT (top) and LIEN (bottom) stations and from the ERA5 reanalysis. Right, cross-plot of the IWV calculated for each station; the colors represent the density of points (the highest densities are represented by the warmest colors).

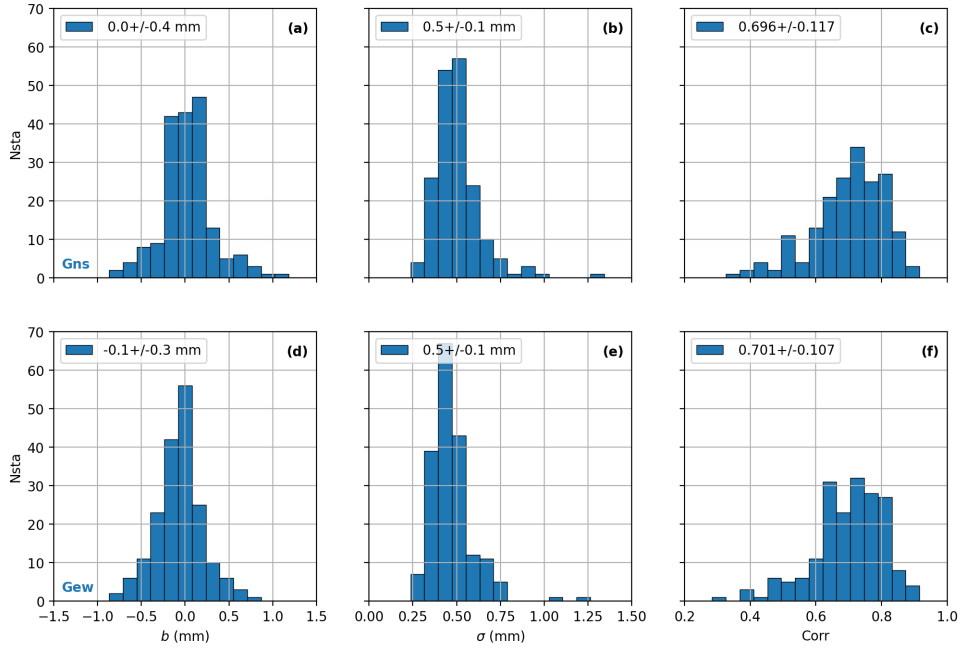


Fig. S4 Comparison of horizontal gradients estimated for stations from the CentipedeRTK and conventional networks (CentipedeRTK – Conventional) ; top (a-c): North-South gradients, bottom (d-f) : East-West gradients; (a,d) bias, (b,e) standard-deviations, (c,f): correlation. Framed numerical values indicate the mean and the standard deviation.