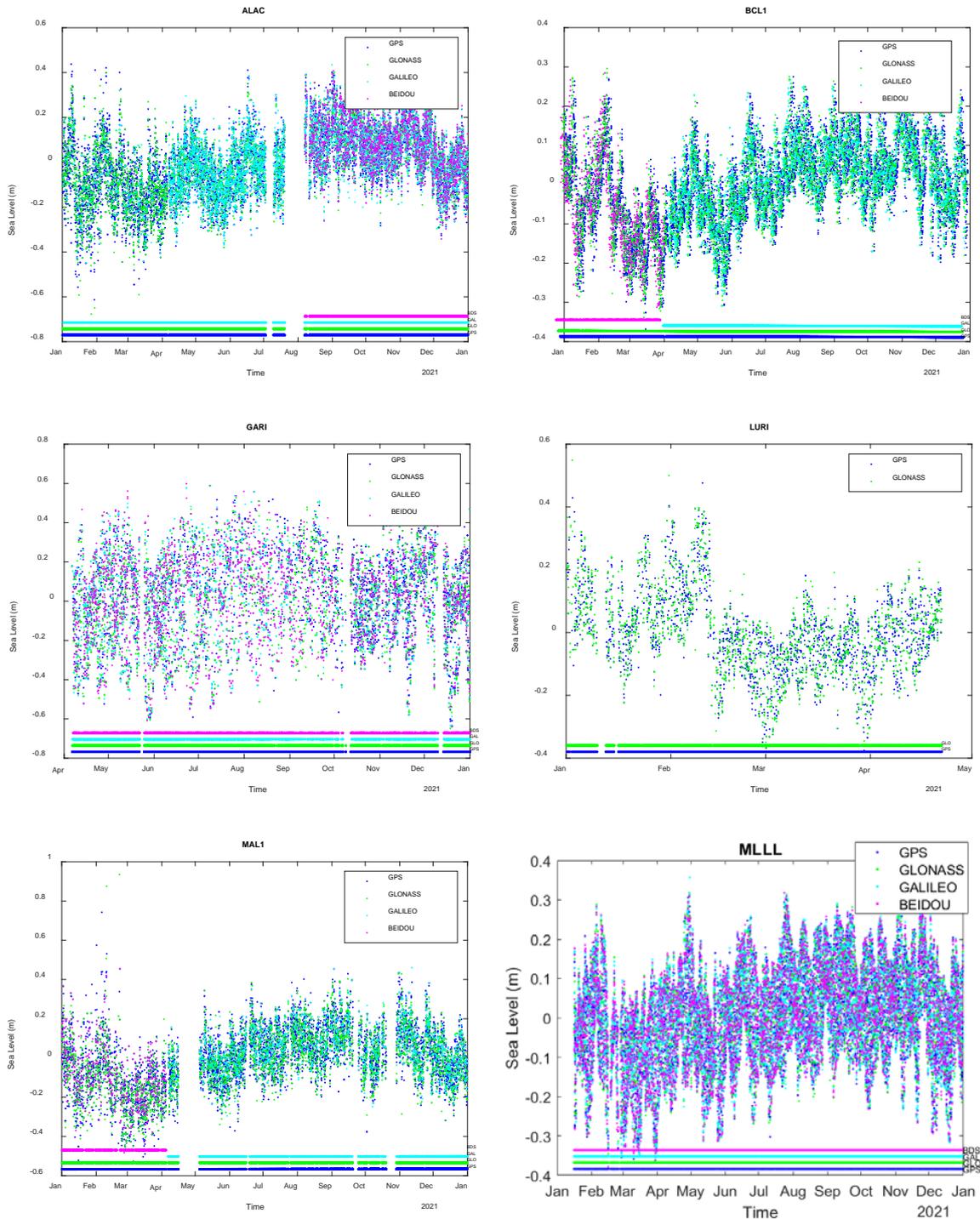


ORIGINAL RESEARCH ARTICLE

GNSS-Interferometric Reflectometry, spectral artifacts and sea level measurements in the Mediterranean Sea

Supplementary file



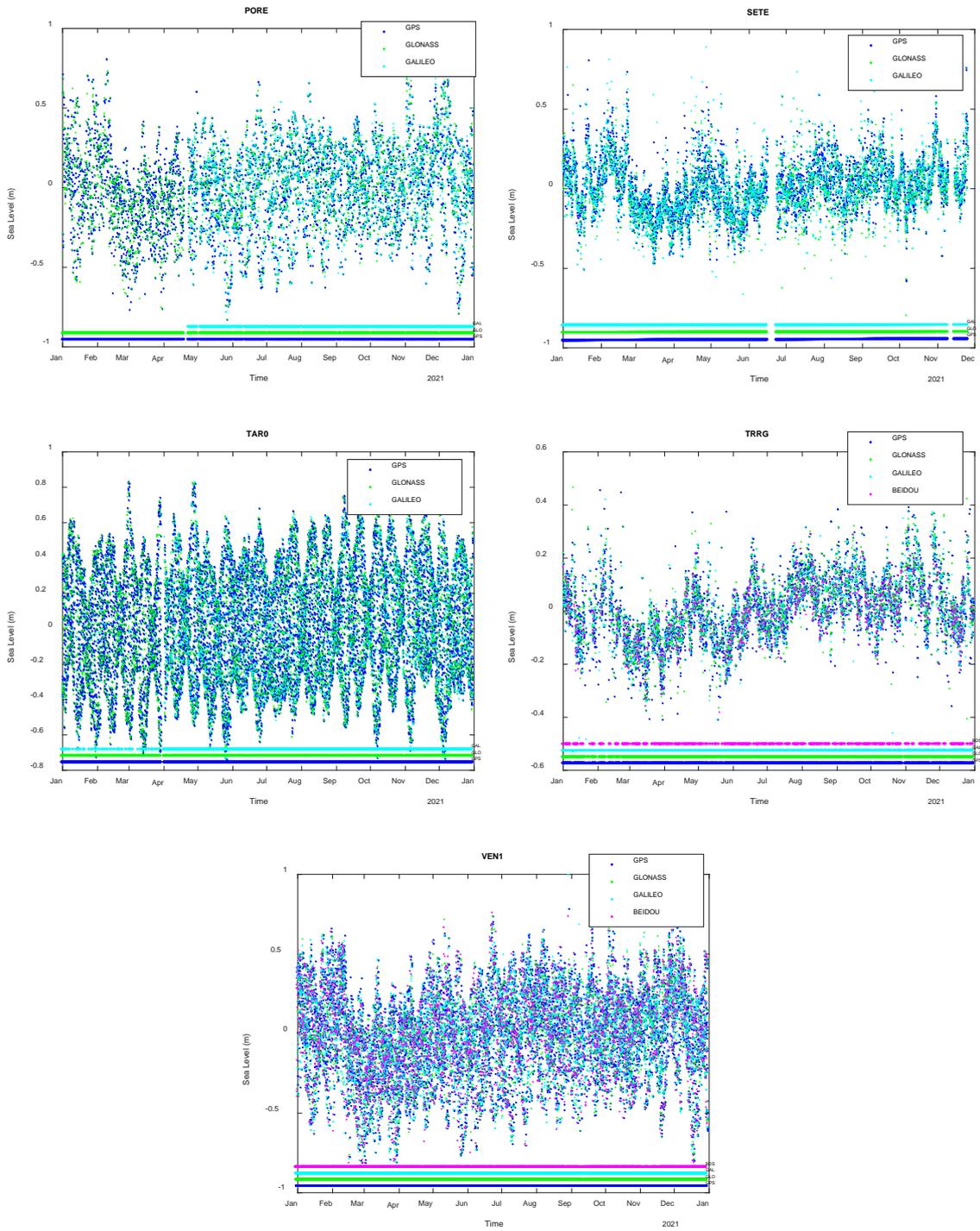
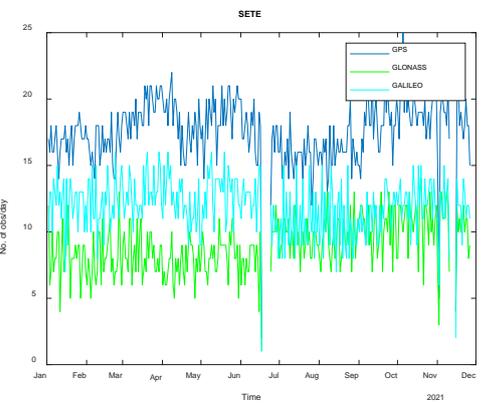
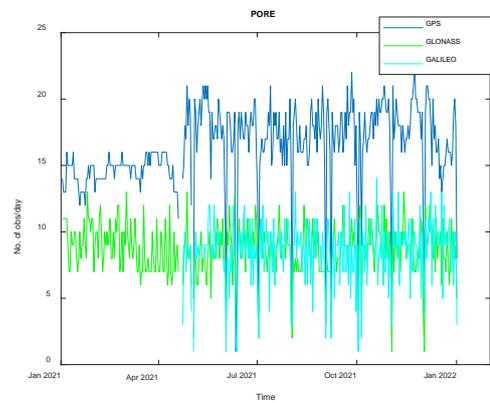
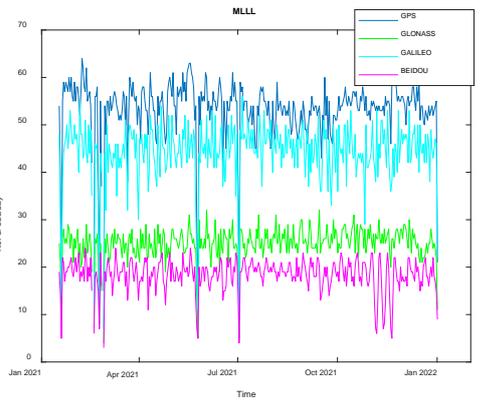
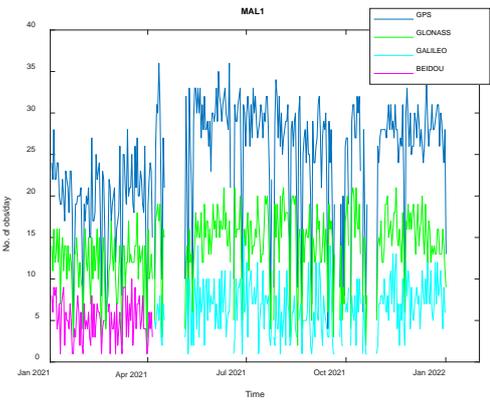
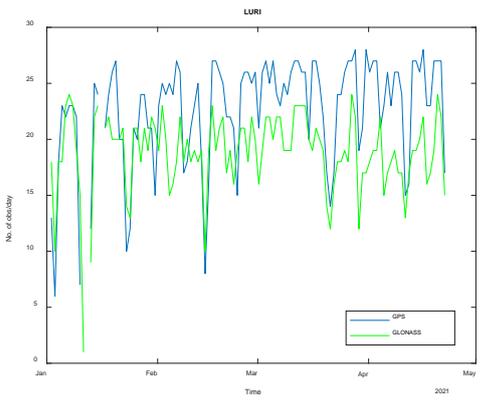
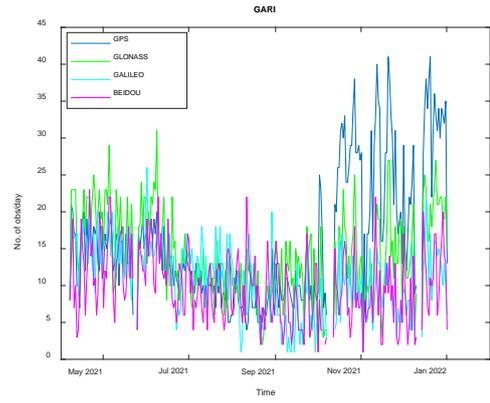
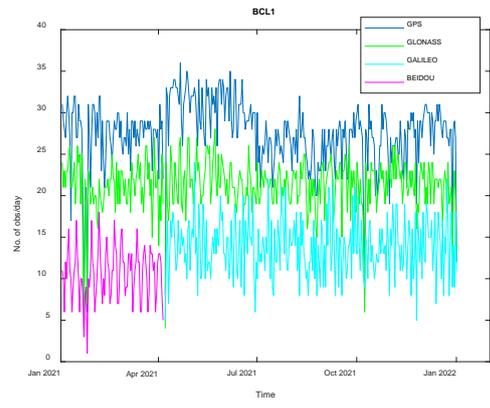
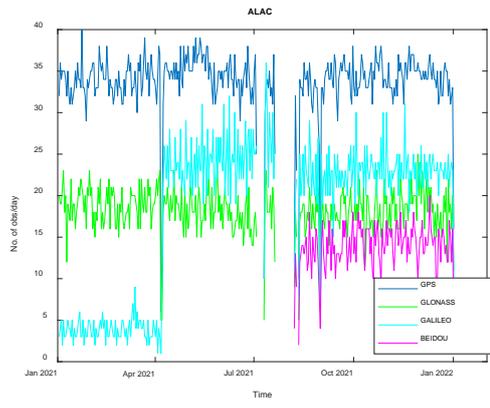


Figure 1S. Sea level variations estimated from GNSS Interferometric Reflections at 11 stations located in the Mediterranean region. Sea level is estimated using reflected signals originated from different satellite constellations (see colors in legend). Time spans cover approximately one year. Color bars shown on the abscissa of the graphs denote the constellation used for sea level determinations.



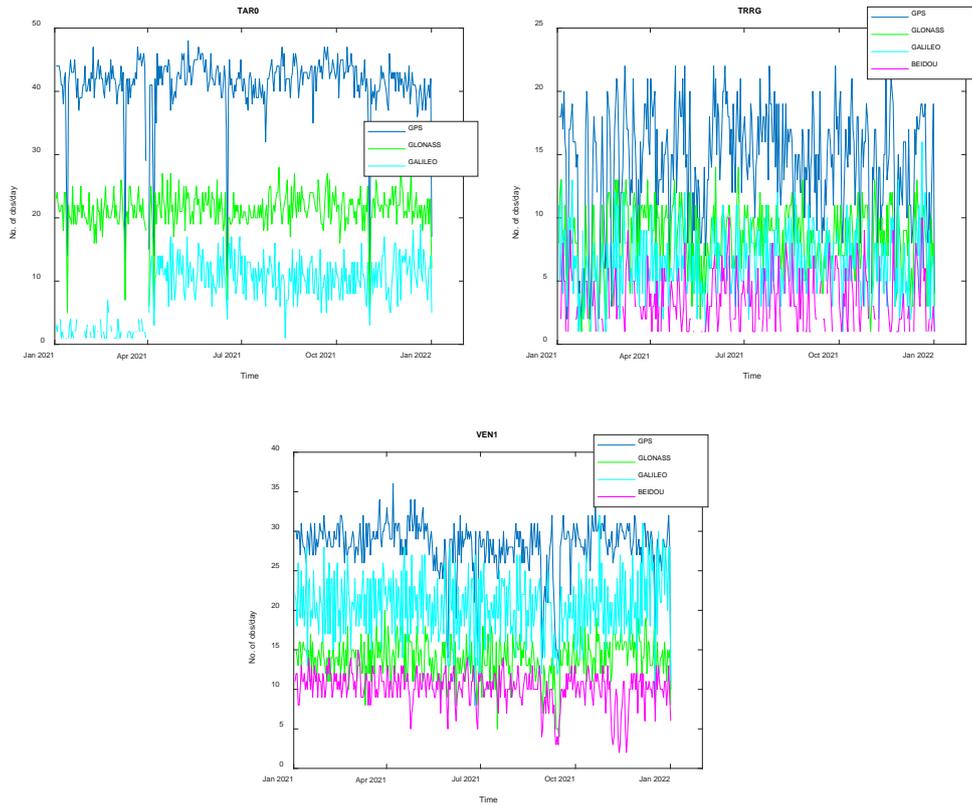
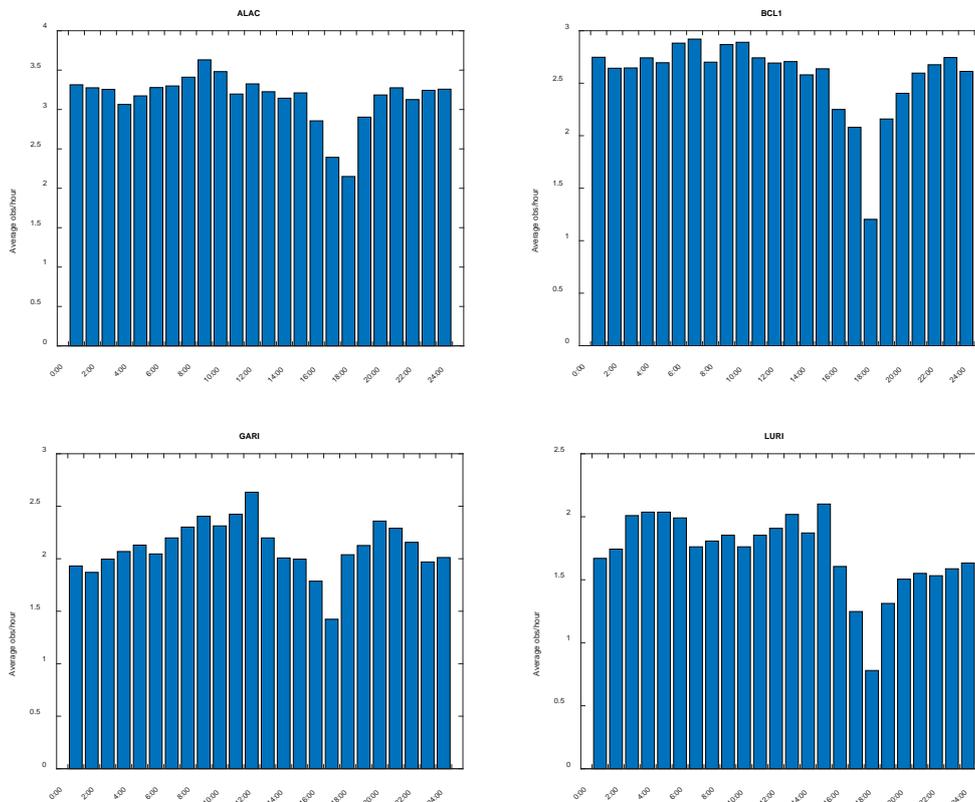


Figure 2S. Same stations as in **Figure 1S**, number of Sea Level observations per day (obs/day) as a function of time and for different satellite constellations (see colors in legend). GNSS reflections are not always available because of receiver configurations, reduction of sea visibility or disturbing factors due to harbor activities and marine traffic.



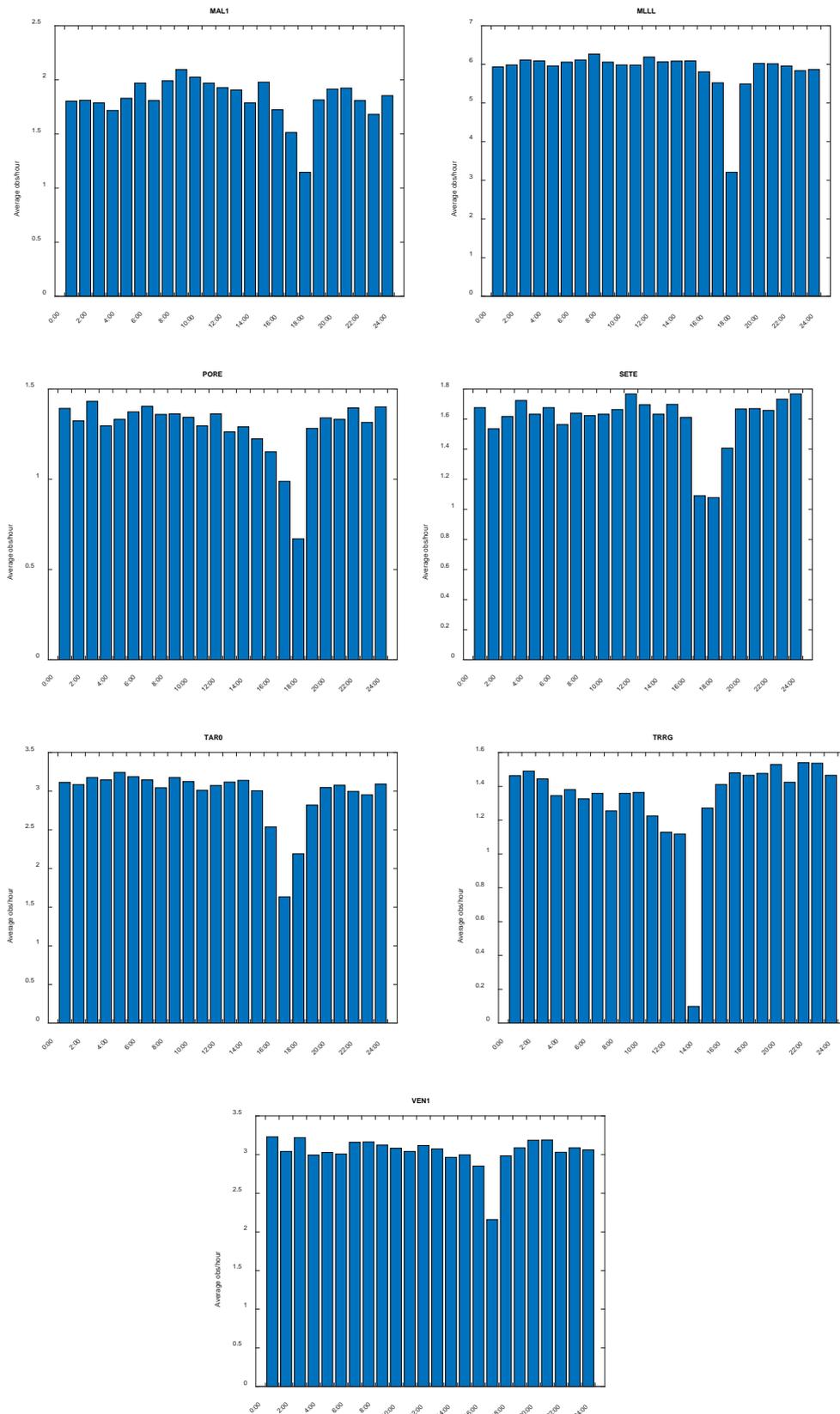
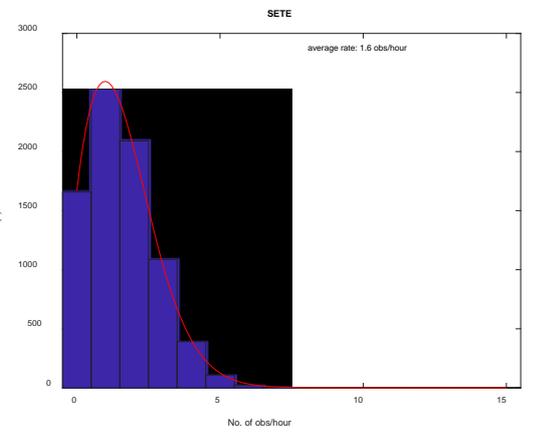
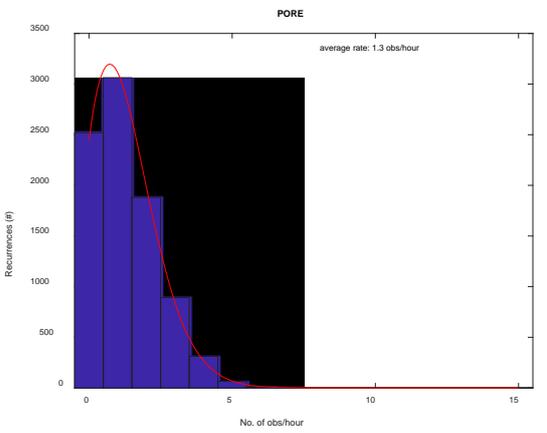
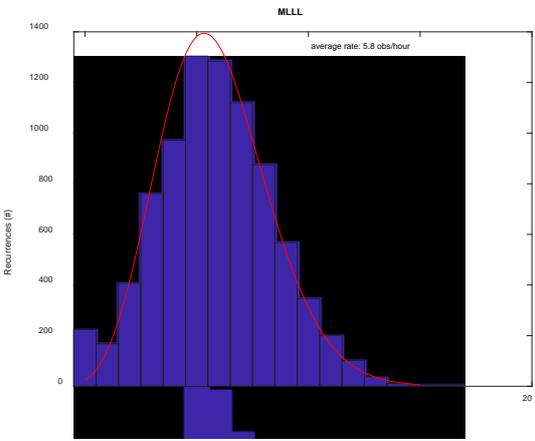
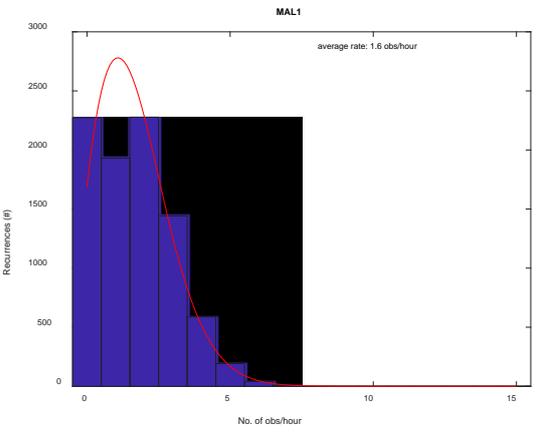
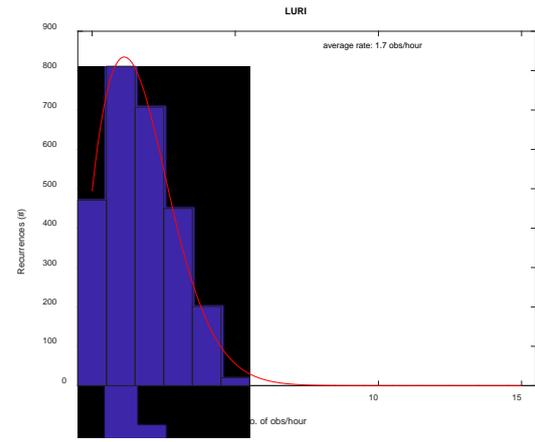
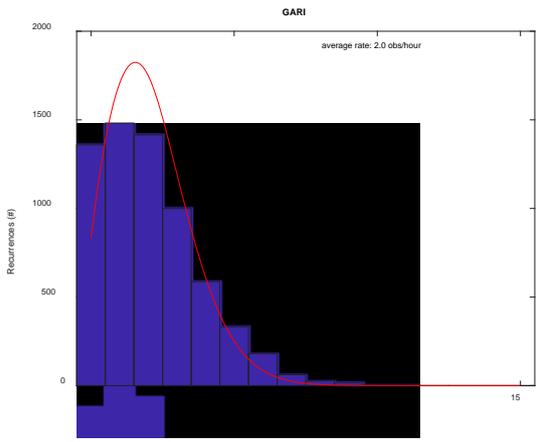
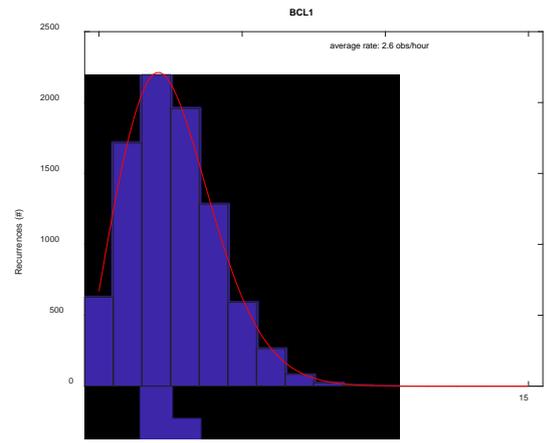
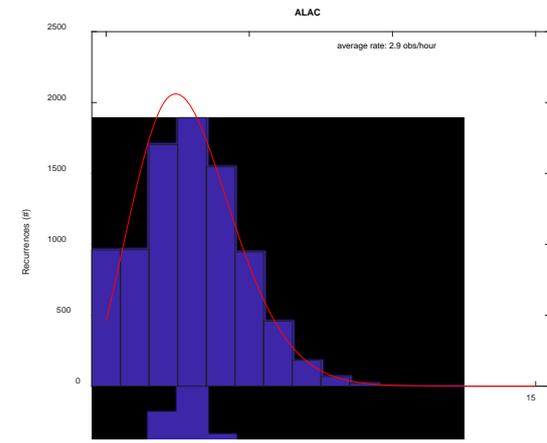


Figure 3S. Same stations as in **Figure 1S**, the number of sea level observations per hour (obs/hour) averaged over all satellite constellations and stacked over all hours of a day. This parameter shows the average rate of sea level observations over a 24 hour time span.



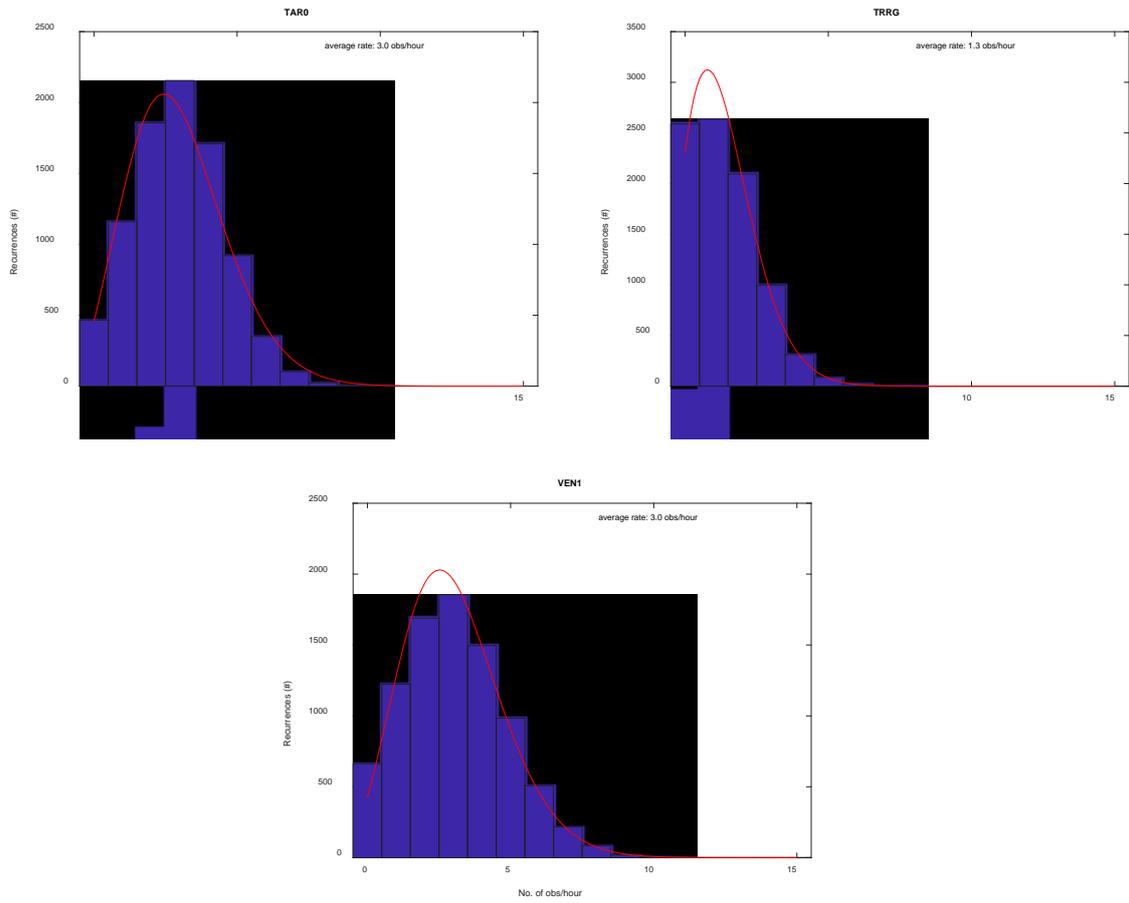
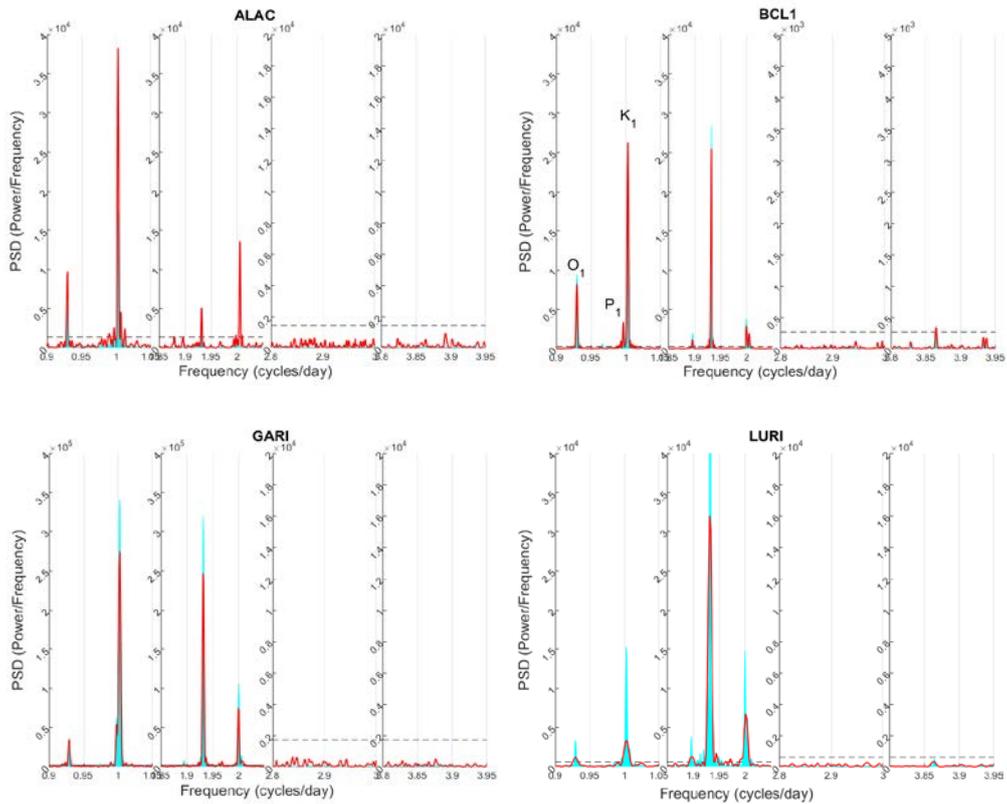


Figure 4S. Same stations as in Figure 1S, histogram of the distribution of number of sea level observations per hour (obs/hour) in the entire observation span. The red line represents the ideal Poisson distribution with the estimated average rate.



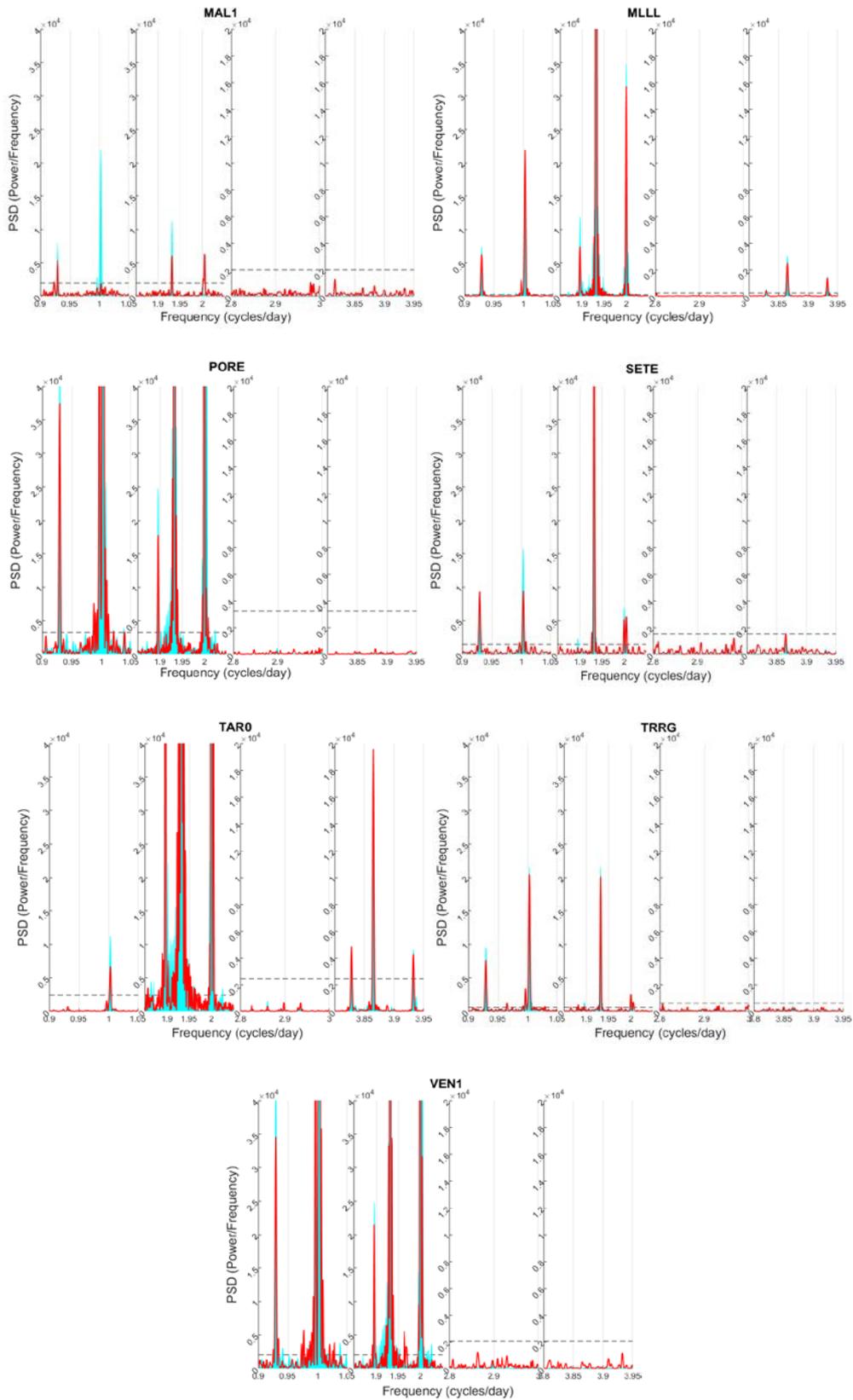


Figure 5S. Same stations as in **Figure 1S**, spectra of sea level determinations compared to spectra obtained from tide gauge data. Panels from left to right of each plot show tidal frequencies in the diurnal, semidiurnal, terdiurnal and quarter diurnal windows. Red line refers to the GNSS data and cyan line to the tide gauge data. The horizontal dashed line represents the 1% confidence level of the spectral amplitudes.