

## Tropical Atlantic region

Figure 1 present 2 maps of the mean (left) and STD (right) SSS maps from SMOS SSS L3 v9 - 9 Days (CATDS-CEC-LOCEAN) Satellite product over the period of the TSG transect.

Figure 1: Mean (left) and STD (right) SSS map from SMOS SSS L3 v9 - 9 Days (CATDS-CEC-LOCEAN) Satellite product over the period of the TSG transect. The black line corresponds to the TSG transect.

Figure 2 show on the top panel SSS as measured by the TSG along its track line (black line) and collocated SMOS SSS L3 v9 - 9 Days (CATDS-CEC-LOCEAN) Satellite product (red line). The corresponding denstiy spectra are shown on the bottom panel.

Figure 2: SSS as a function of the cummulative distance over the TSG transect (black line) and collocated SMOS SSS L3 v9 - 9 Days (CATDS-CEC-LOCEAN) Satellite product (red line)