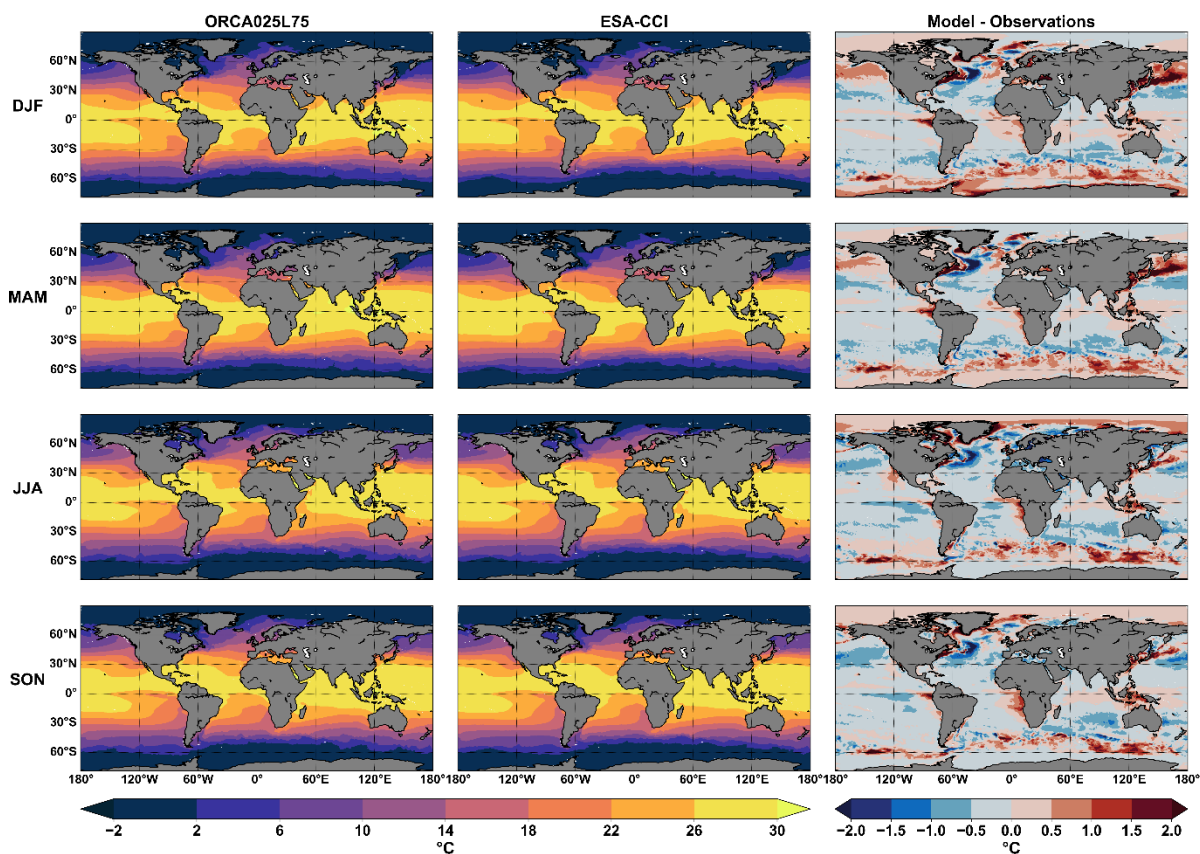
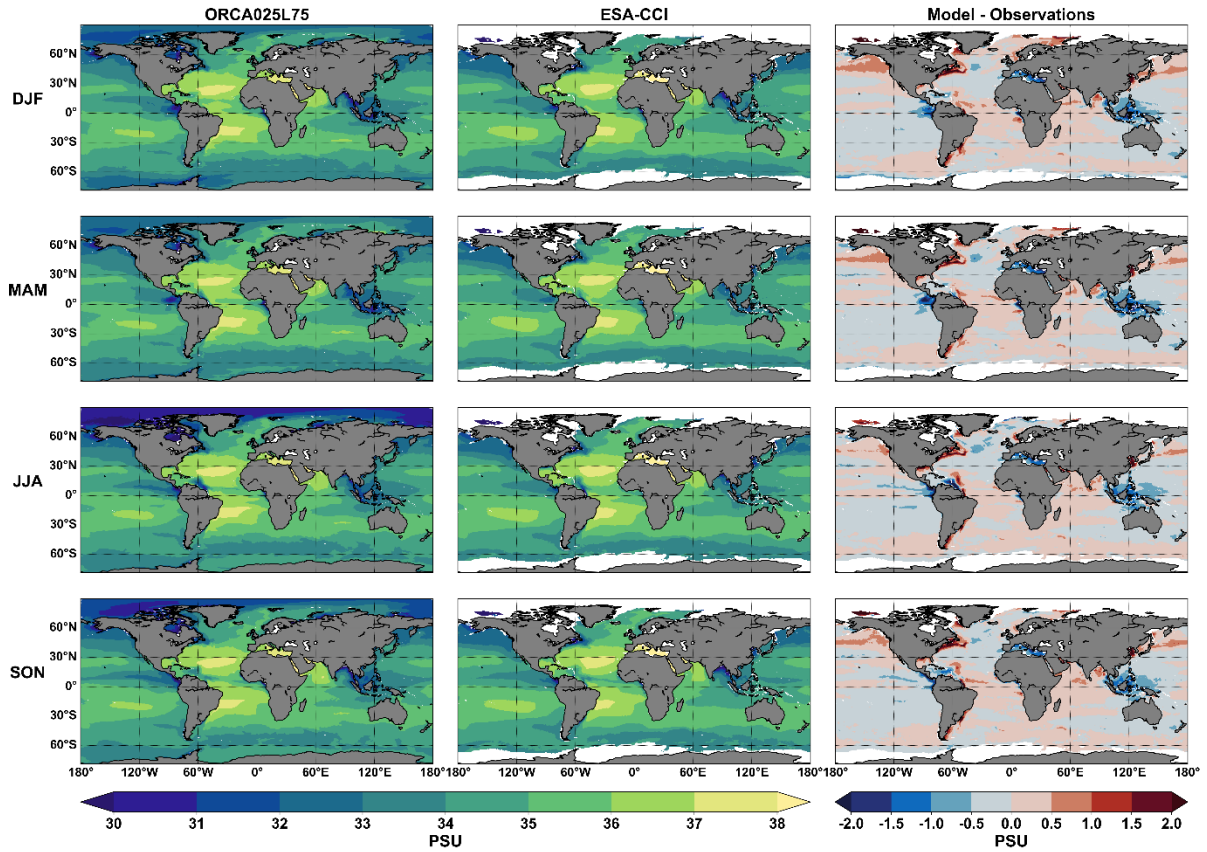


SST seasonal climatology (Years: 1982 - 2020)



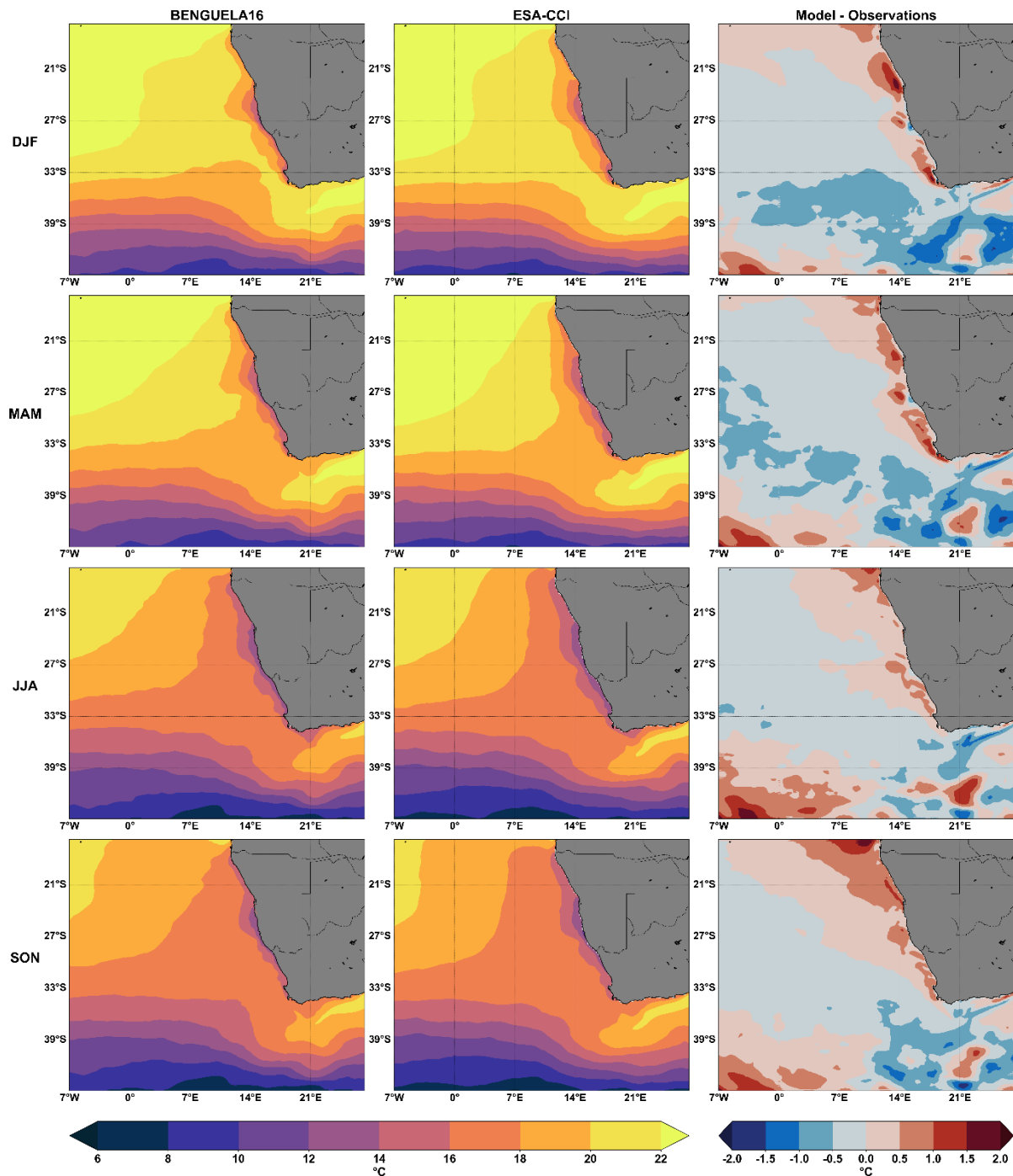
SUPPLEMENTARY FIGURE 1 Comparison of sea surface temperature (SST) seasonal climatologies between NEMO (left) and ESA-CCI (Merchant et al., 2019) (centre) and their difference (right).

SSS seasonal climatology (Years: 2010 - 2019)



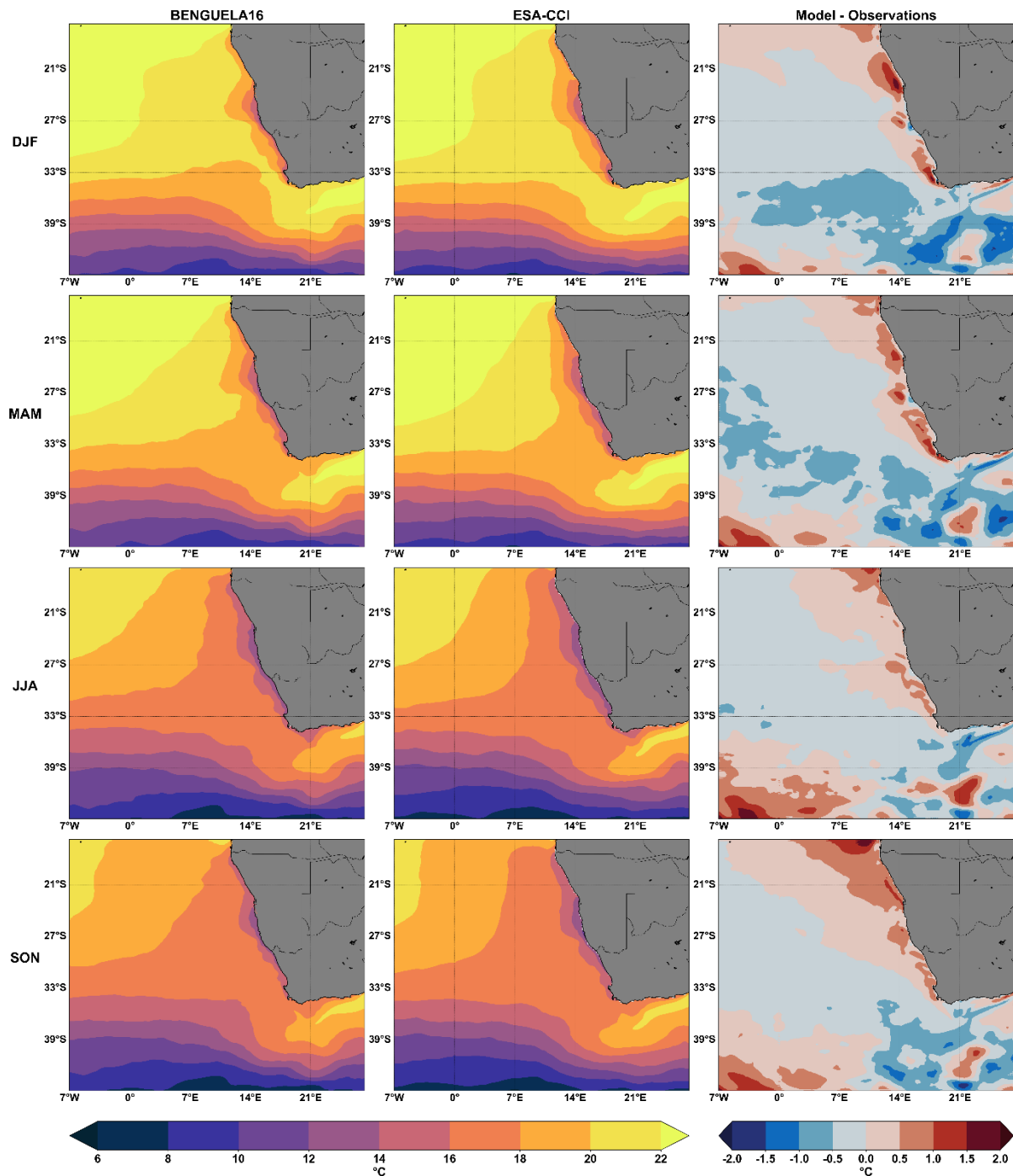
SUPPLEMENTARY FIGURE 2 Comparison of sea surface salinity (SSS) seasonal climatologies between NEMO (left) and ESA-CCI (Boutin et al., 2021) (centre) and their difference (right).

SST seasonal climatology (Years: 1982 - 2020)



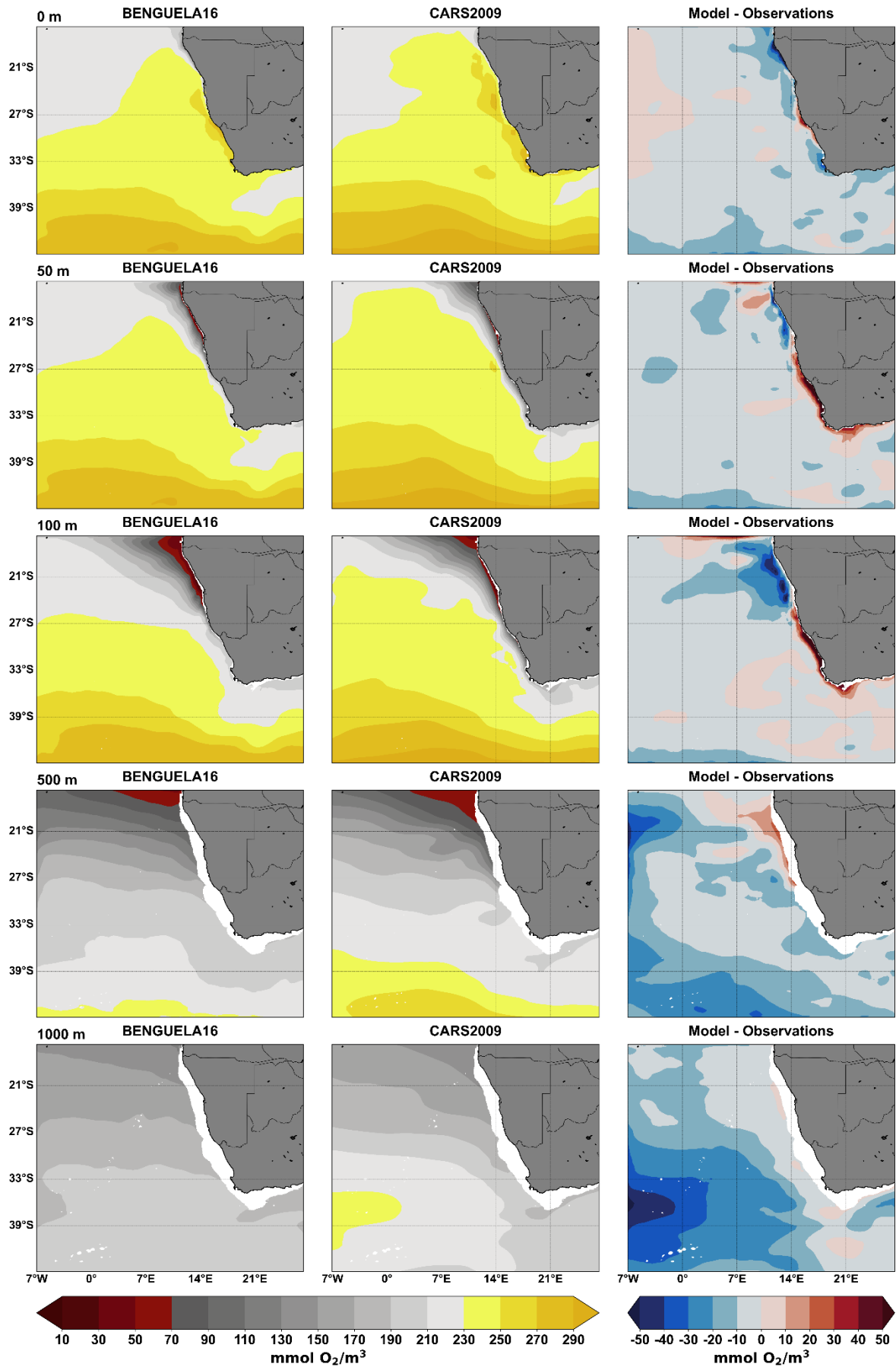
SUPPLEMENTARY FIGURE 3 SST seasonal climatology comparison from NEMO (left) and ESA-CCI (Merchant et al., 2019) (centre) and their difference (right) over the BENGUELA16 domain.

SST seasonal climatology (Years: 1982 - 2020)



SUPPLEMENTARY FIGURE 4 Seasonal climatology comparison between NEMO (left) and ESA-CCI (Boutin et al., 2021) (centre) SSS and their difference (right) over the BENGUELA16 domain.

Annual Climatology of DO at Selected Depths



SUPPLEMENTARY FIGURE 5 Comparison of BENGUELA16 (left) and CARS (CARS, 2009) (centre) dissolved oxygen annual climatology (1980 - 2020) and their difference (right) at different vertical depths (0, 50, 100, 500, and 1000 meters).