

Fig. 1. Location of Évora in the Southwestern Iberian Peninsula.

199x155mm (150 x 150 DPI)

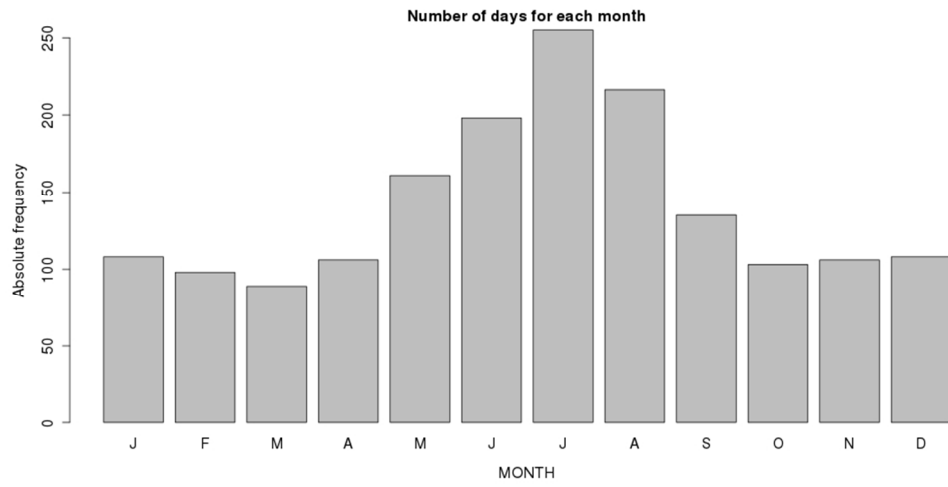


Fig. 2. Number of daily ARF values, DARF, for each month during the period 2003-2015

352x176mm (72 x 72 DPI)

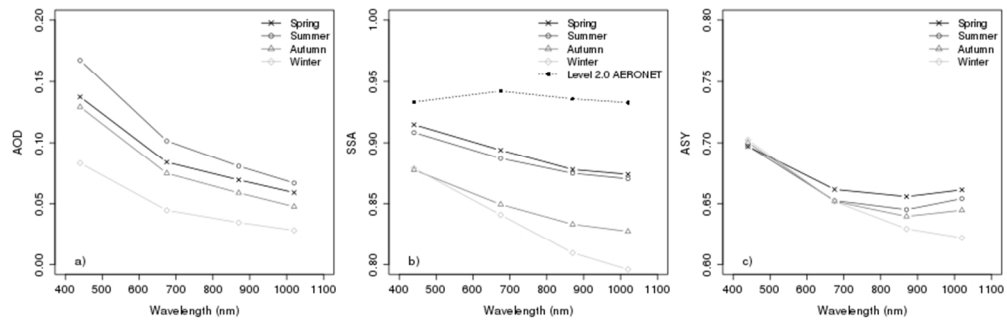


Fig.3. (a), (b) and (c) show AOD, SSA and ASY mean values at wavelengths of 440 nm, 675 nm, 870 nm, and 1020 nm for different seasons. AERONET level 2.0 SSA has also been plotted in b) for comparison purposes.

317x105mm (72 x 72 DPI)

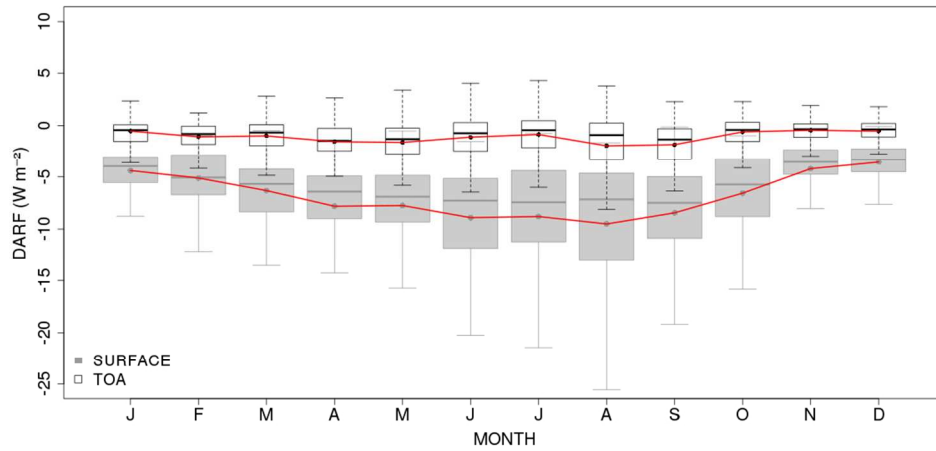


Fig. 4. Box and whisker plot of daily ARF values, DARF, at the surface and the top of the atmosphere for each calendar month over the 2003–2015 period. The mean (filled circles), median (horizontal segment within the box), 25th and 75th percentiles (top/bottom box limits) and data within 1.5 times the interquartile range (whiskers) are shown.

423x211mm (72 x 72 DPI)

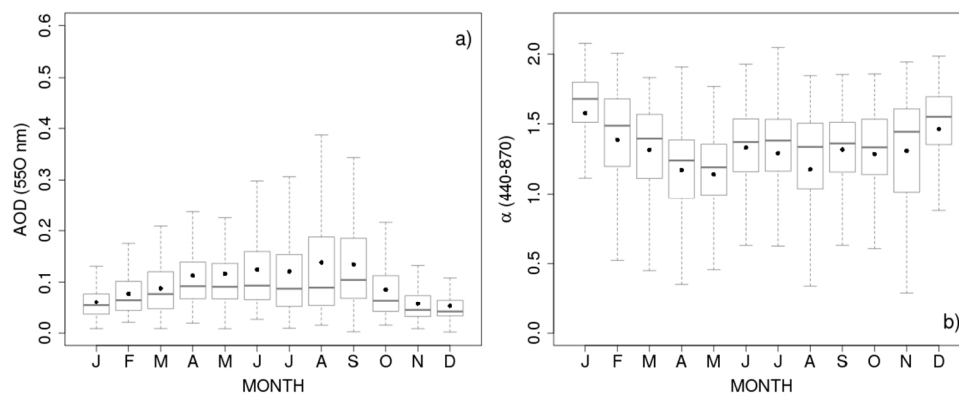


Fig. 5. Box and whisker plot of daily AOD (a) and α (b) values for each calendar month over the 2003–2015 period. The mean (filled circles), median (horizontal segment within the box), 25th and 75th percentiles (top/bottom box limits) and data within 1.5 times the interquartile range (whiskers) are shown.

423x176mm (72 x 72 DPI)

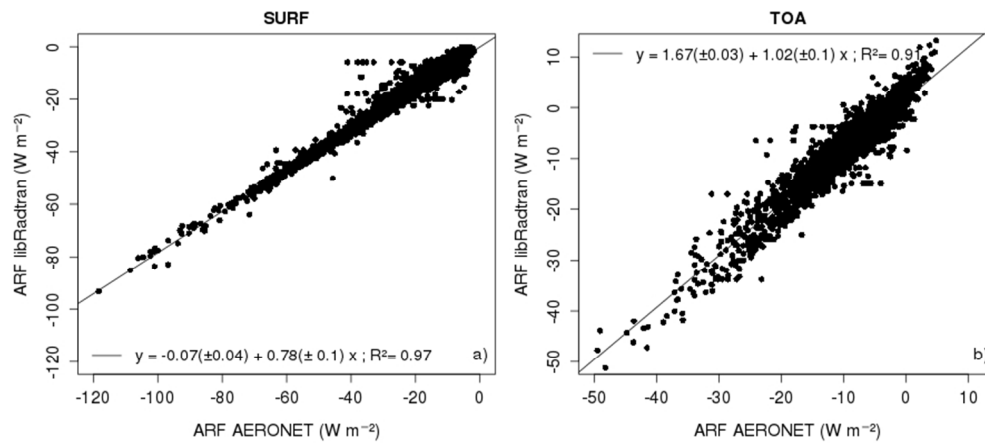


Fig. 6. Comparisons between ARF provided by AERONET and ARF estimated in this study using libRadtran, a) for surface level and b) for the top of the atmosphere level.

317x141mm (72 x 72 DPI)

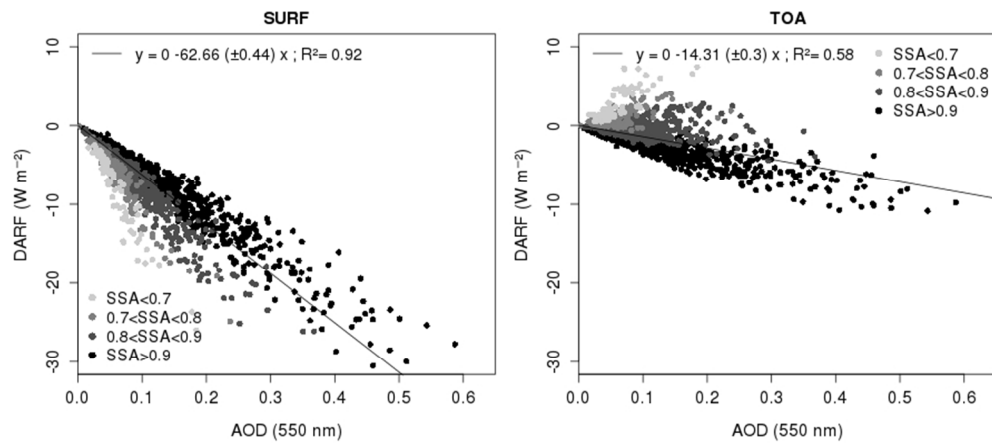


Fig. 7. Aerosol radiative forcing as a function of the AOD at 550 nm during the study period. a) for surface level and b) for the top of the atmosphere level. The regression equations are included and the points have been colored according to their SSA value.

317x141mm (72 x 72 DPI)

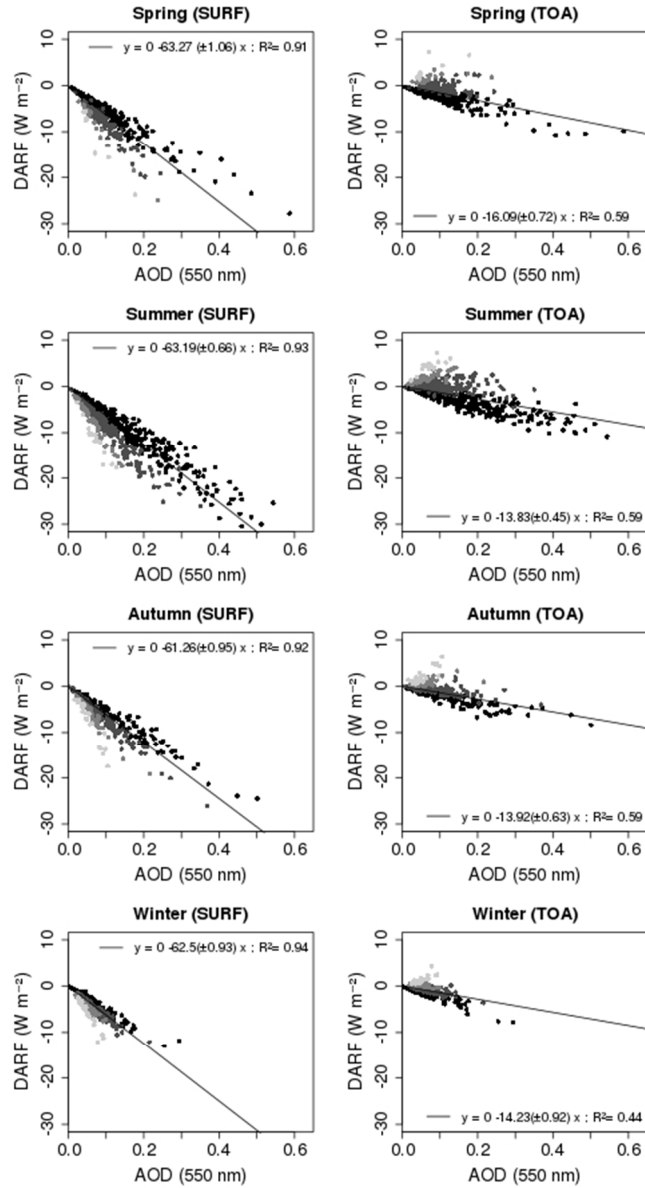


Fig. 8. Aerosol radiative forcing as a function of the AOD at 550 nm for each season of the year. The regression equations are included and the points have been colored according to their SSA value

176x317mm (72 x 72 DPI)

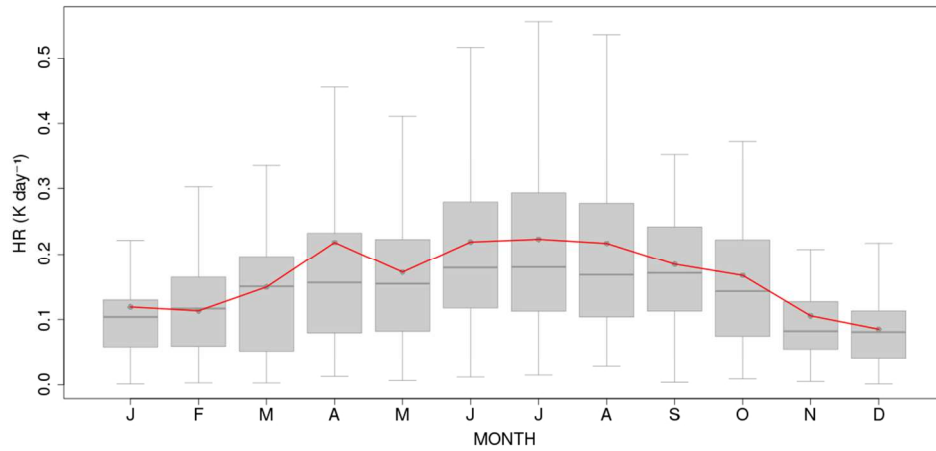


Fig. 9. Box and whisker plot of daily HR values for each calendar month over the 2003–2015 period. The mean (filled circles), median (horizontal segment within the box), 25th and 75th percentiles (top/bottom box limits) and data within 1.5 times the interquartile range (whiskers) are shown.

423x211mm (72 x 72 DPI)