

Author's Response to the Editor's comment on **"Impact of large wildfires on PM10 levels and human mortality in Portugal"** submitted by Patricia Tarín-Carrasco et al.

A: First, we would like to thank the Editor for the valuable comments on "Impact of large wildfires on PM10 levels and human mortality in Portugal" by Patricia Tarín-Carrasco et al. The manuscript was revised taking into consideration the Editor's comments in order to improve the quality of the paper. Please see below our point-by-point replies:

Figure 1: please improve the readability of the legend and text. Please use English place name for Porto. Please add subpanel notations as small letters (a, b) instead of Left/Right.

A: Figure 1 has been corrected as suggested by the Editor.

All map figures: Please add graticules to all map figures.

A: Graticules have been added to all the figures, as suggested by the Editor.

Table 1. Please spell out 'Occ.' Or provide explanation in caption.

A: Occ. stands out for the number of occurrences. This explanation has been now provided in the caption.

Figure 2. It is not clear from the map where the numbers in the polygons refer to (I assume number of fires). Please clarify.

A: The numbers inside the polygons refer to the number of large fires. The caption has been modified to clarify this point, as suggested by the Editor.

Figure 3. Please add unit for population to the legend. Please remove 'No_data' class from the legend.

A: Corrected as suggested.

Figure 4. Please add unit for PM10 to the legend instead of in the caption. Please remove 'No_data' class from the legend. Please use '.' Instead of ',' for decimal values in the legend.

A: Corrected as suggested.

Figure 5. Please use more understandable text labels than for example 'Sign_B.A-PM10' and others in the legend. Please remove 'No_data' class from the legend. Please use '.' Instead of ',' for decimal values in the legend.

A: Corrected as suggested.

Figure 6. Please add subpanel notations a, b and c to the figures. Please use more understandable text labels than for example 'Sign_PM10-All Causes' and others in the legend. Please use '.' Instead of ',' for decimal values in the legend.

A: Corrected as suggested.