Supplement of

A complex aerosol transport event over Europe during the 2017 Storm Ophelia in CAMS forecast systems: analysis and evaluation

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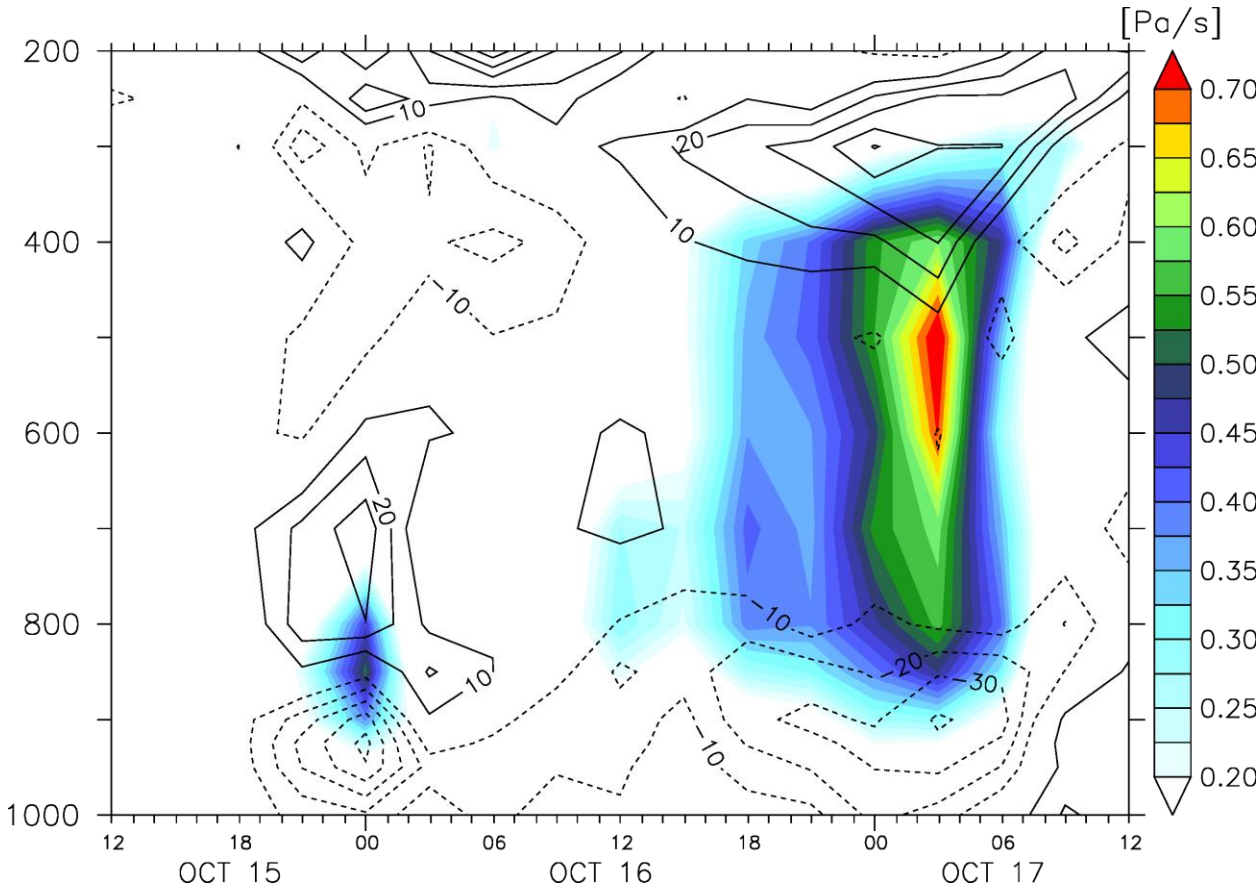

Figure S1. Hovmöller diagram of the negative of omega vertical velocity (in Pa/s; color shaded), divergence (in 10^6 s^{-1}; solid black contour) and convergence (in 10^6 s^{-1}; dashed black contours) over the northwest Iberian Peninsula region (lon:7º-9º W; lat:40º-44º N) for the period from 12Z of October 15th 2017 to 12Z of October 17th 2017.

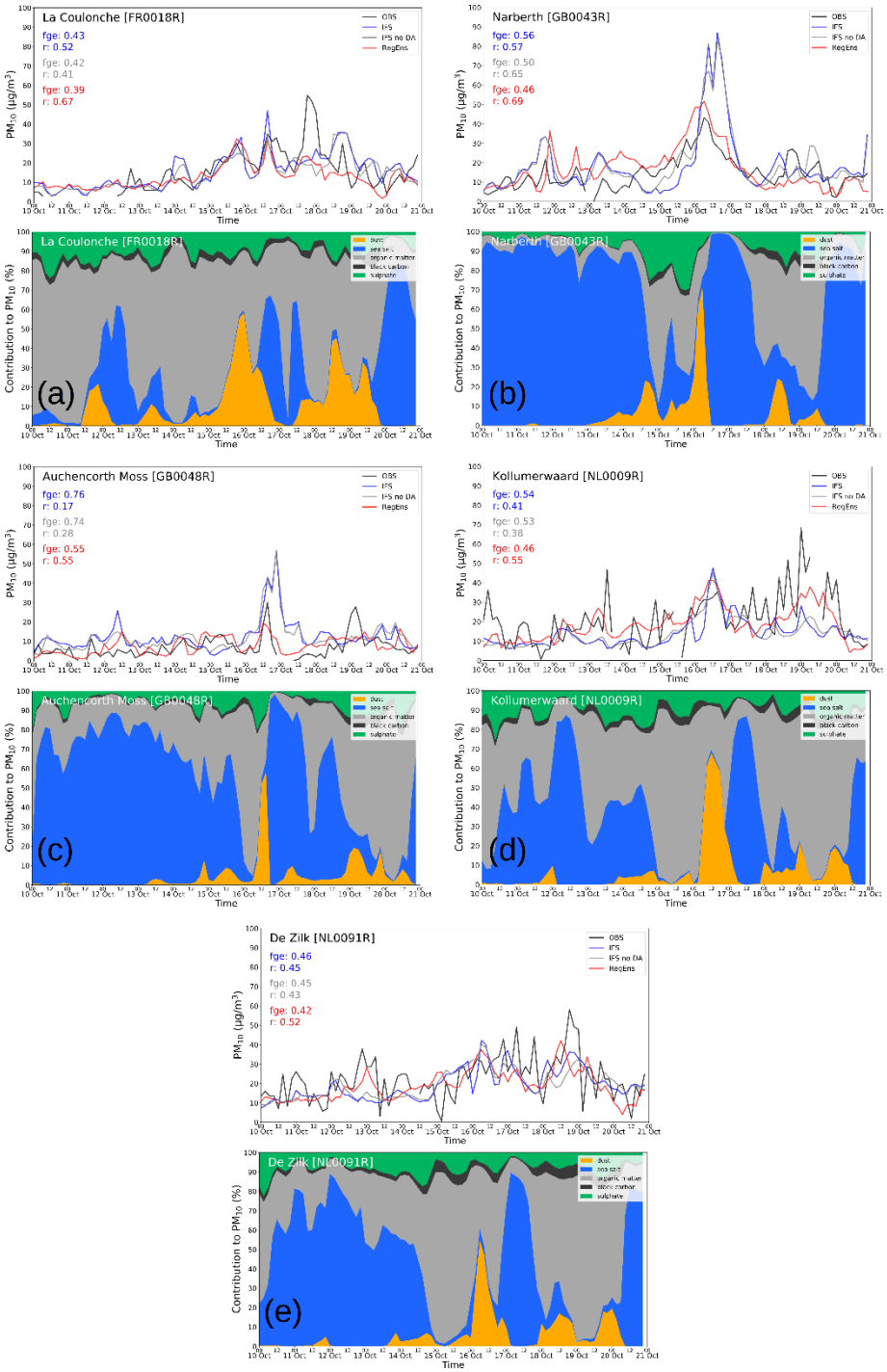

Figure S2. Observed (black), IFS (blue), IFS no DA (grey) and RegEns (red) 3-hourly timeseries of PM_{10} surface concentrations (µg/m^3) (top), and percentage (%) contribution of aerosol type to IFS PM_{10} surface concentrations (bottom) for La Coulonche (FR0018R), France (a); Narberth (GB1043R), Great Britain (b); Auchencorth (GB0048R), Great Britain (c); Kollumerwaard (NL0009R), the Netherlands (d); De Zilk (NL0091R), the Netherlands (e).

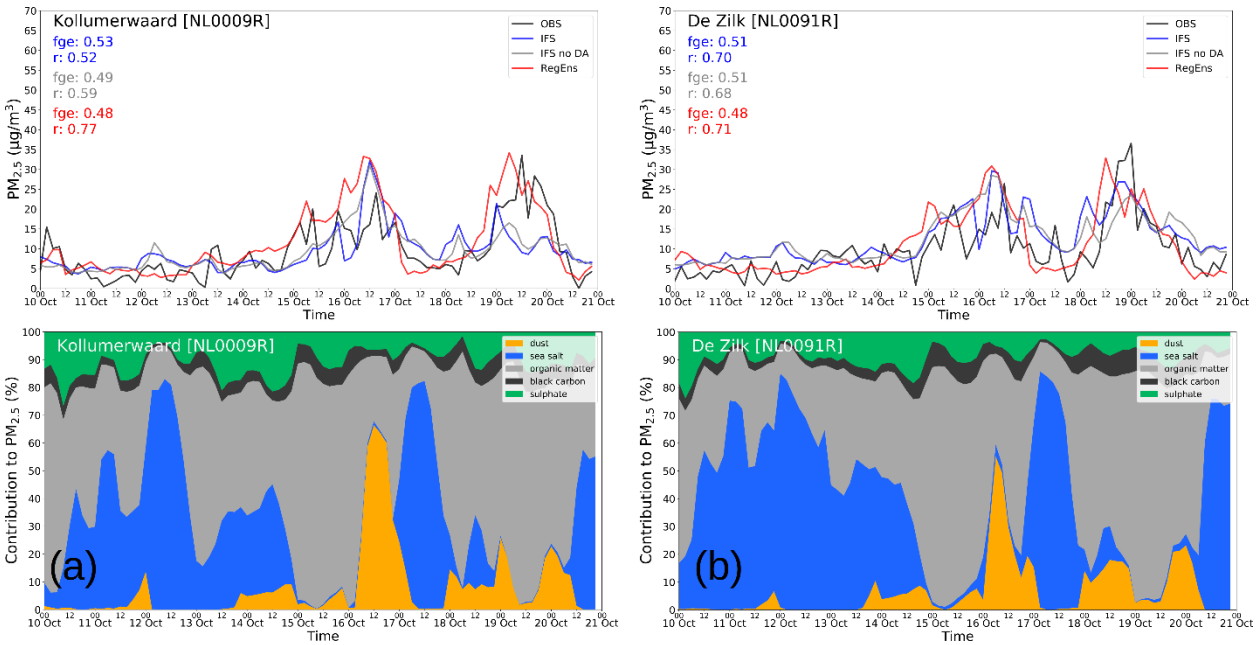

Figure S3. Observed (black), IFS (blue), IFS no DA (grey) and RegEns (red) 3-hourly timeseries of $PM_{2.5}$ surface concentrations (µg/m^3) (top), and percentage (%) contribution of aerosol type to IFS $PM_{2.5}$ surface concentrations (bottom) for Kollumerwaard (NL0009R), the Netherlands (a); De Zilk (NL0091R), the Netherlands (b).