Supplement of

Reduced light absorption of black carbon (BC) and its influence on BC-boundary-layer interactions during “APEC Blue”

Meng Gao et al.

Correspondence to: Meng Gao (mmgao2@hkbu.edu.hk) and Jianlin Hu (jianlinhu@nuist.edu.cn)

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Table S1. Complex refractive index for major aerosol components in WRF-Chem

<table>
<thead>
<tr>
<th>Components</th>
<th>real</th>
<th>imaginary</th>
</tr>
</thead>
<tbody>
<tr>
<td>BC</td>
<td>1.85</td>
<td>0.71</td>
</tr>
<tr>
<td>Dust</td>
<td>1.55</td>
<td>0.006</td>
</tr>
<tr>
<td>Organics</td>
<td>1.45</td>
<td>0</td>
</tr>
<tr>
<td>NH₄Cl</td>
<td>1.50</td>
<td>0</td>
</tr>
<tr>
<td>NH₄NO₃</td>
<td>1.50</td>
<td>0</td>
</tr>
<tr>
<td>NH₄HSO₄</td>
<td>1.47</td>
<td>0</td>
</tr>
<tr>
<td>NA₂SO₄</td>
<td>1.50</td>
<td>0</td>
</tr>
</tbody>
</table>

Figure S1. Satellite monitored clouds over East Asia during the APEC week (Terra/MODIS corrected Reflectance obtained from https://worldview.earthdata.nasa.gov/).
Figure S2. Observed and modelled daily maximum near ground radiation in Beijing during the APEC week.