Forecast for O3 column. Last analysis time: 20181101 00
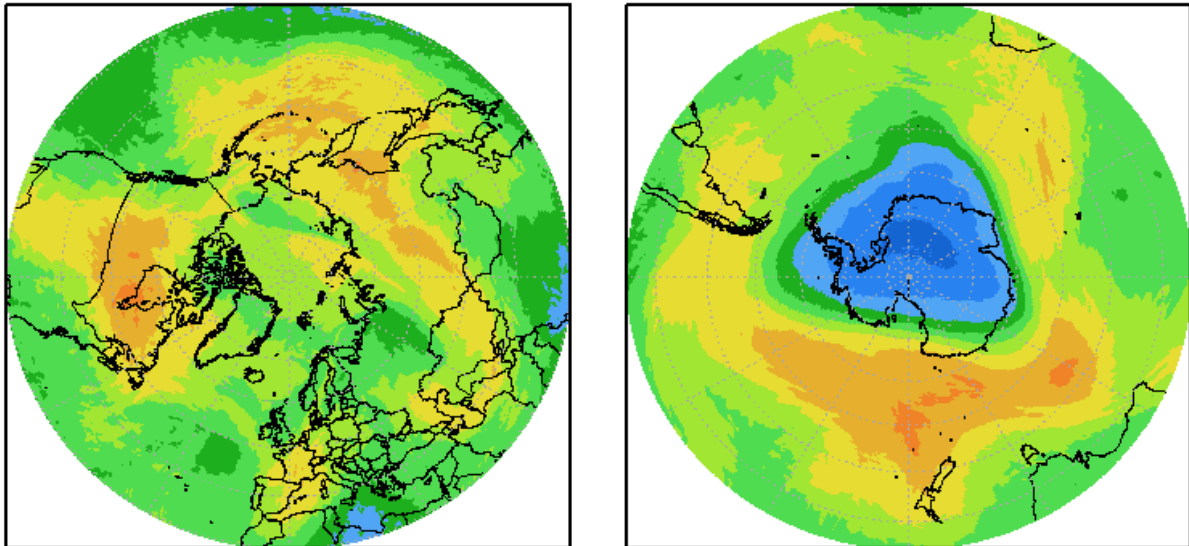
O3_column, DobsonUnit, 12:0001NOV2018
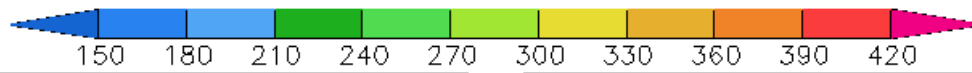


**Figure S1. Global ozone column predicted by SILAM on 1.11.2018 for 1.11.2018. [Dubson units]**

Forecast for O3 column. Last analysis time: 20181101 00

O3_column, DobsonUnit, 12:0002NOV2018

**Figure S2. Global ozone column predicted by SILAM on 1.11.2018 for 1.11.2018. [Dubson units]**

Forecast for O3 column. Last analysis time: 20181101 00
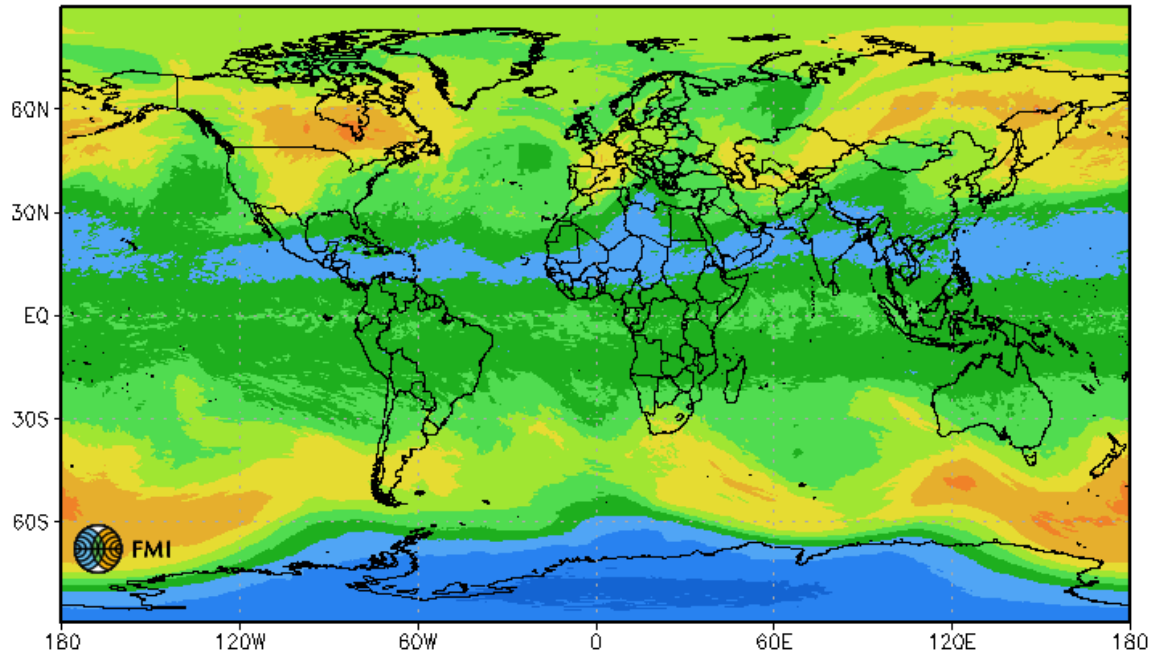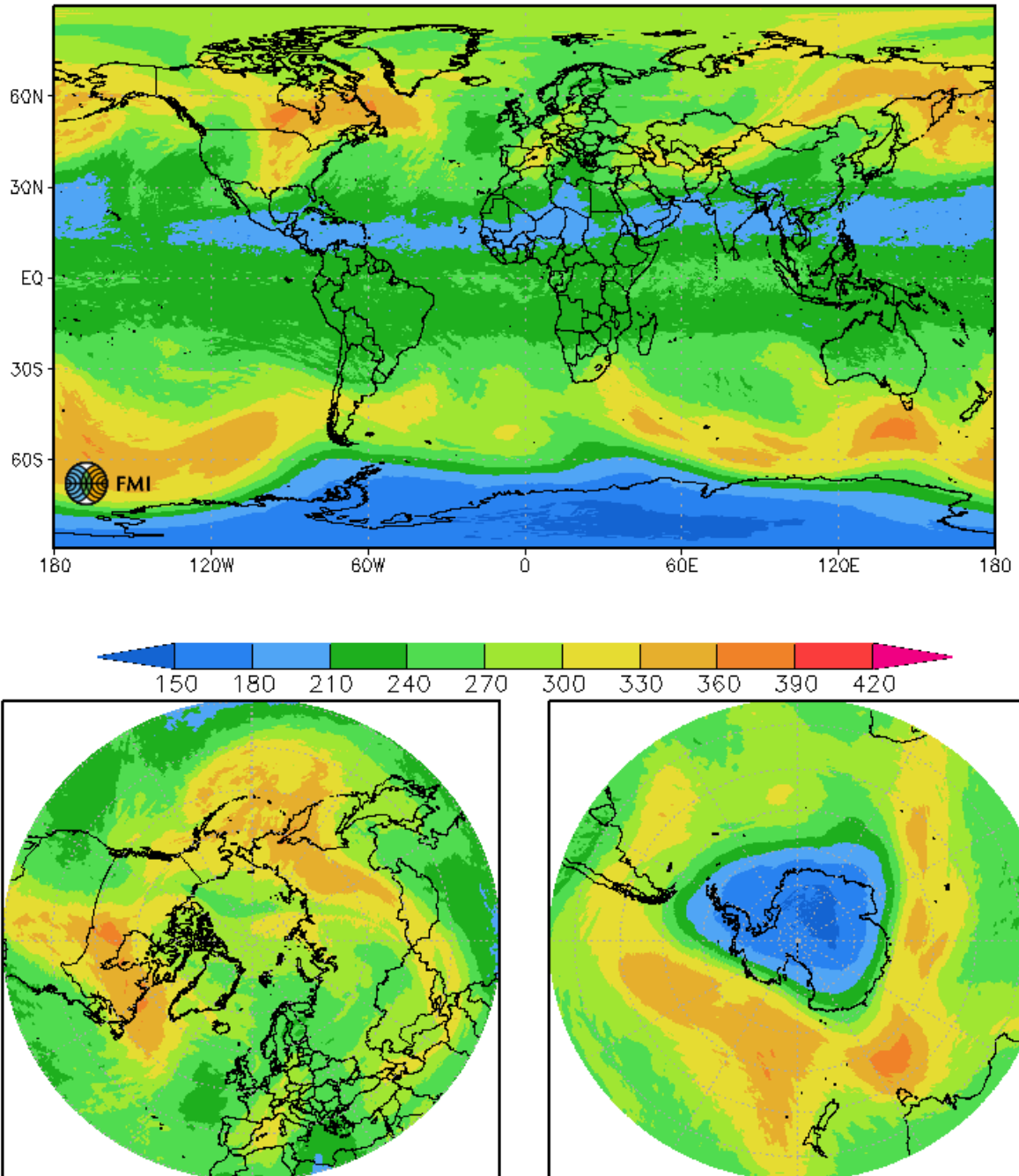
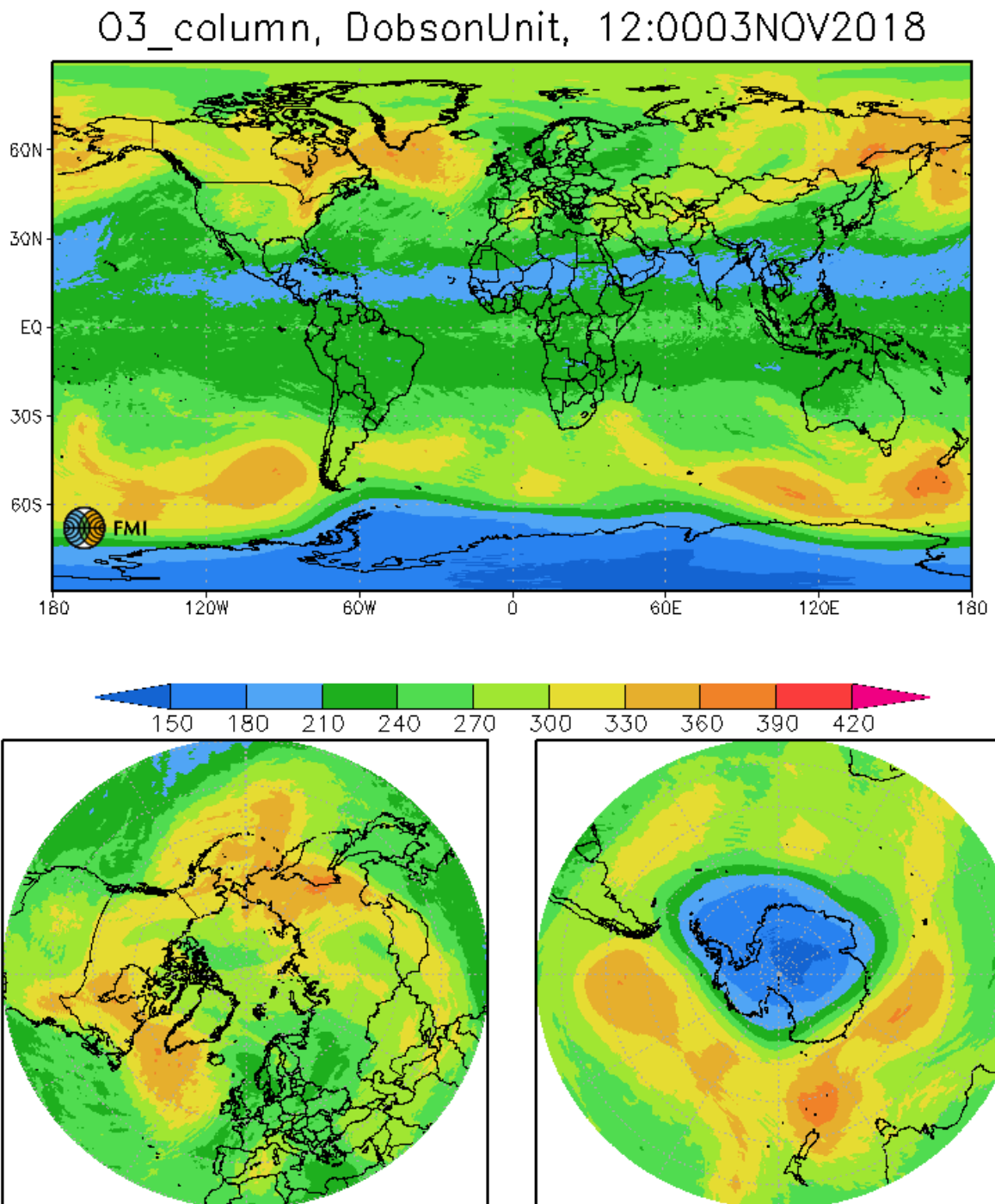O3_column, DobsonUnit, 12:0003NOV2018



**Figure S3. Global ozone column predicted by SILAM on 1.11.2018 for 1.11.2018. [Dubson units]**

Forecast for O3 column. Last analysis time: 20181101 00

O3_column, DobsonUnit, 12:0004NOV2018



**Figure S4. Global ozone column predicted by SILAM on 1.11.2018 for 1.11.2018. [Dubson units]**

**Figure S5. Global ozone column predicted by SILAM on 1.11.2018 for 1.11.2018. [Dubson units]**
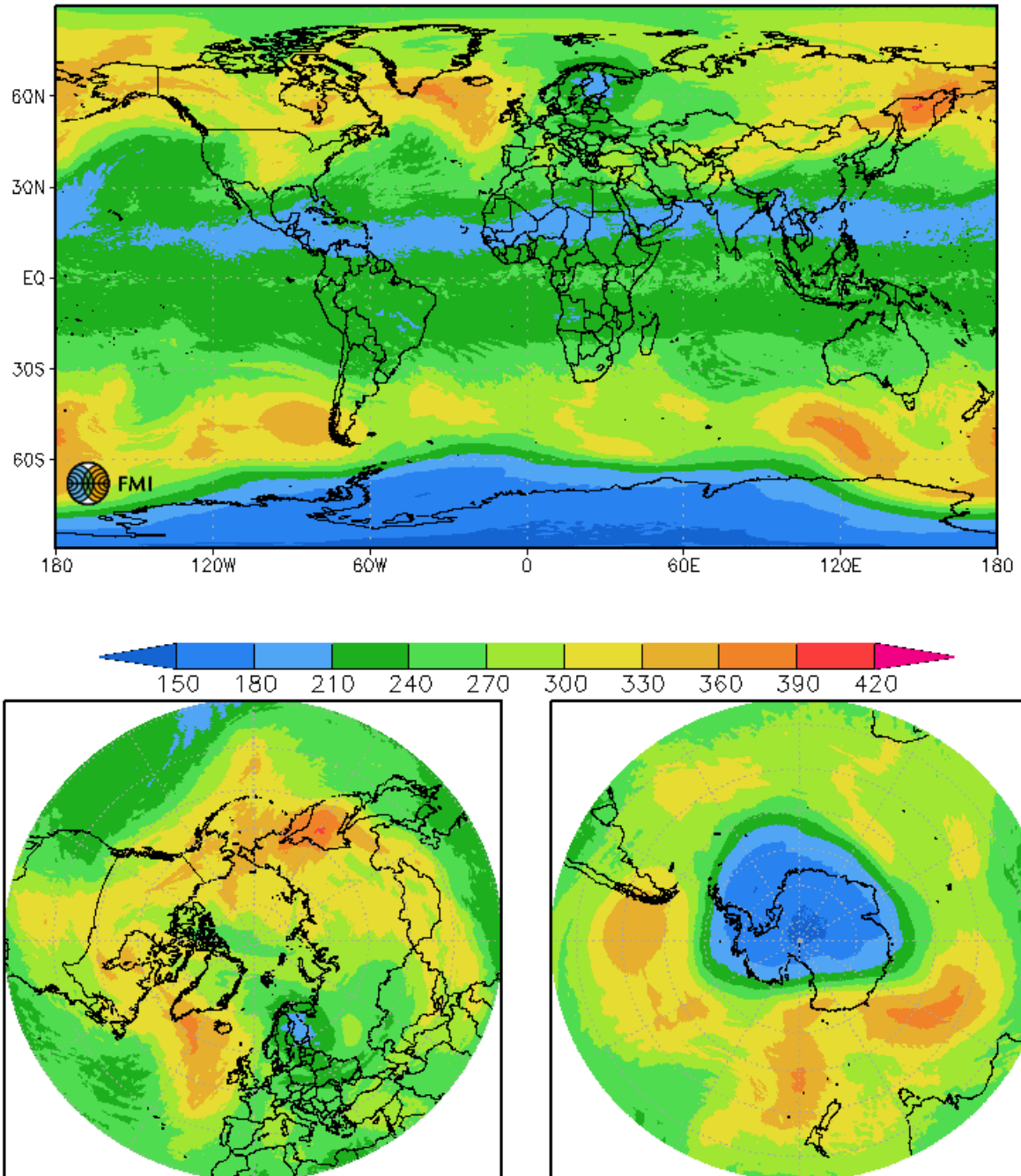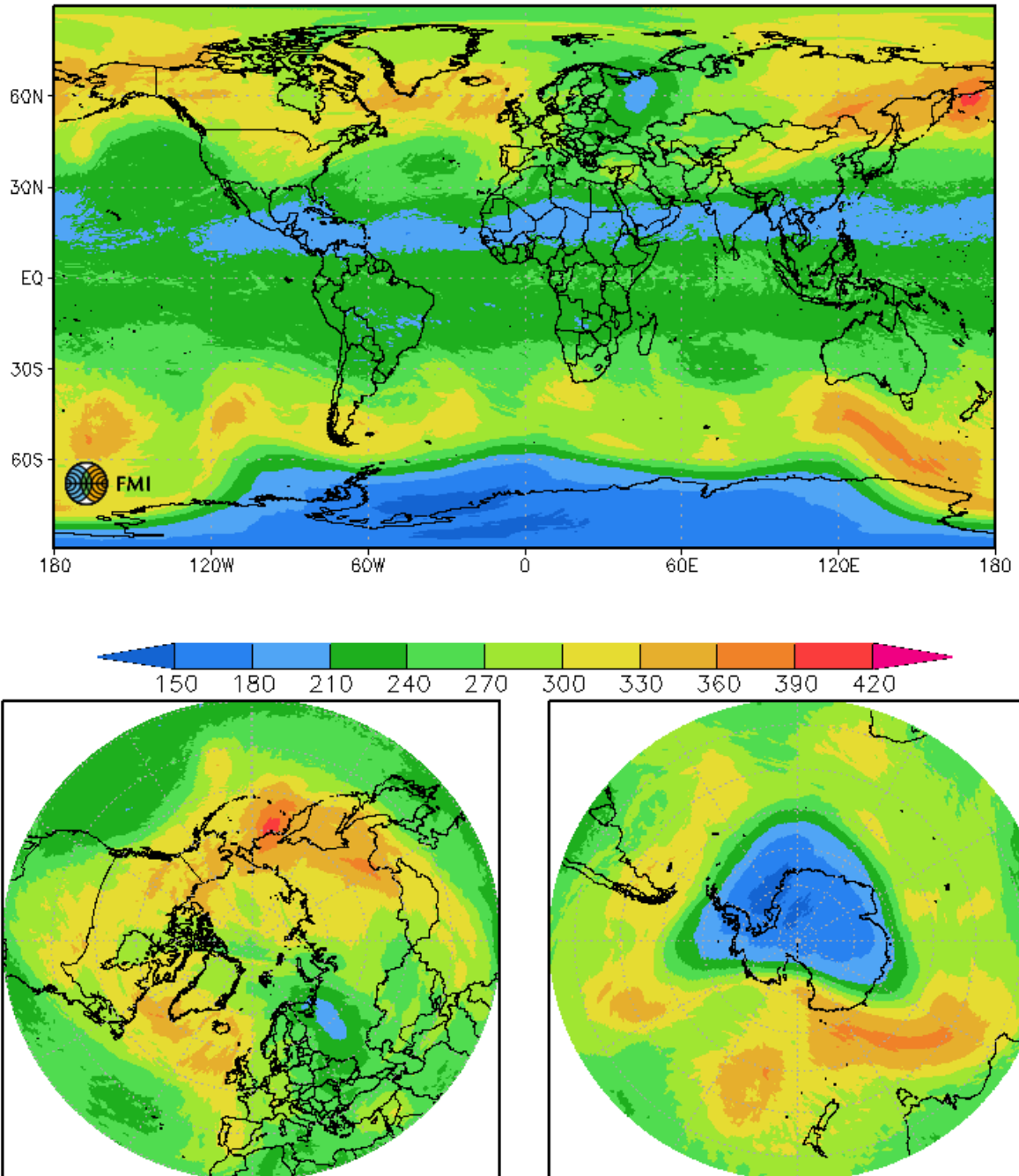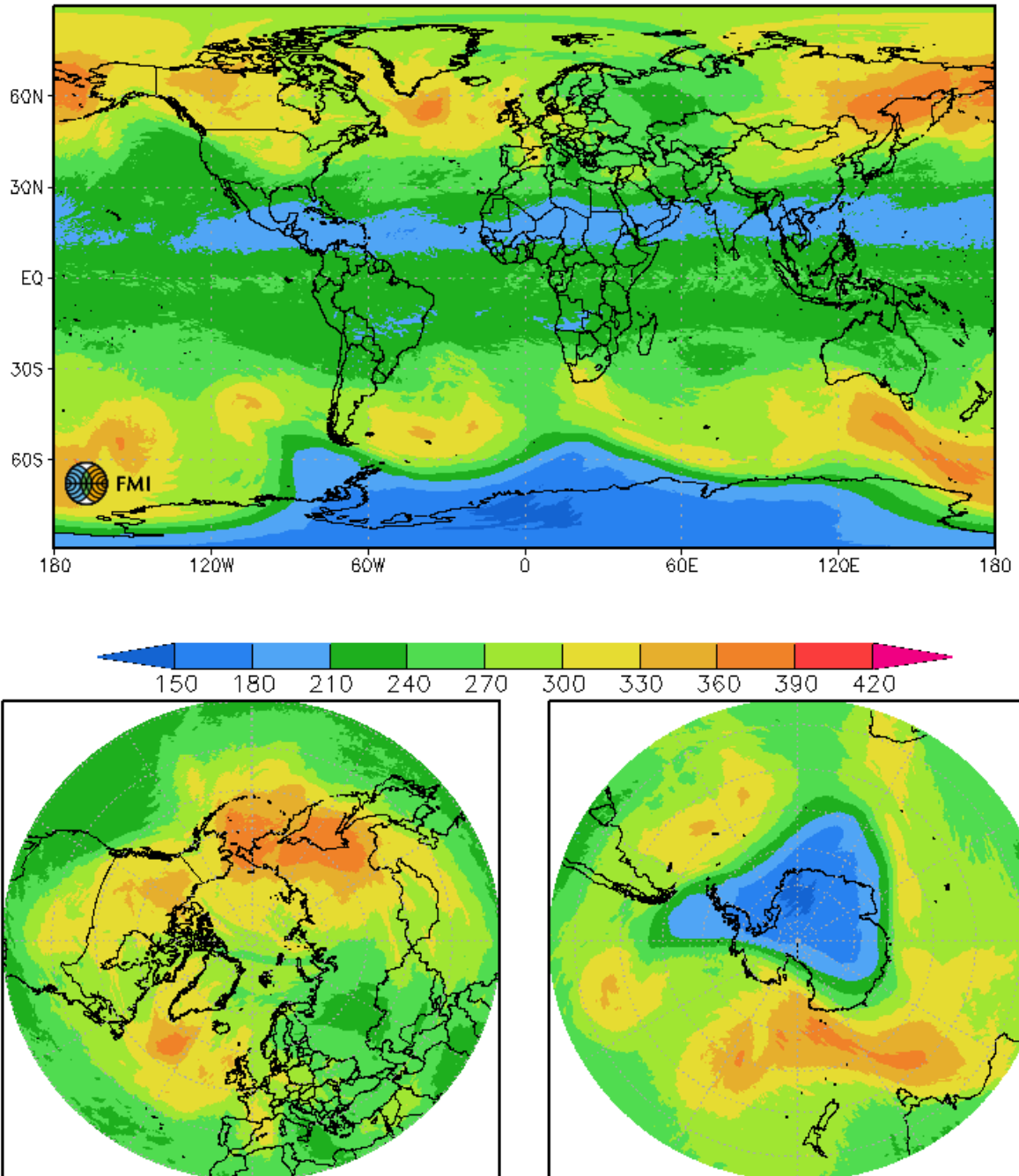
**Figure S6. Global ozone column predicted by SILAM on 1.11.2018 for 1.11.2018. [Dubson units]**

Forecast for O3 column. Last analysis time: 20181101 00

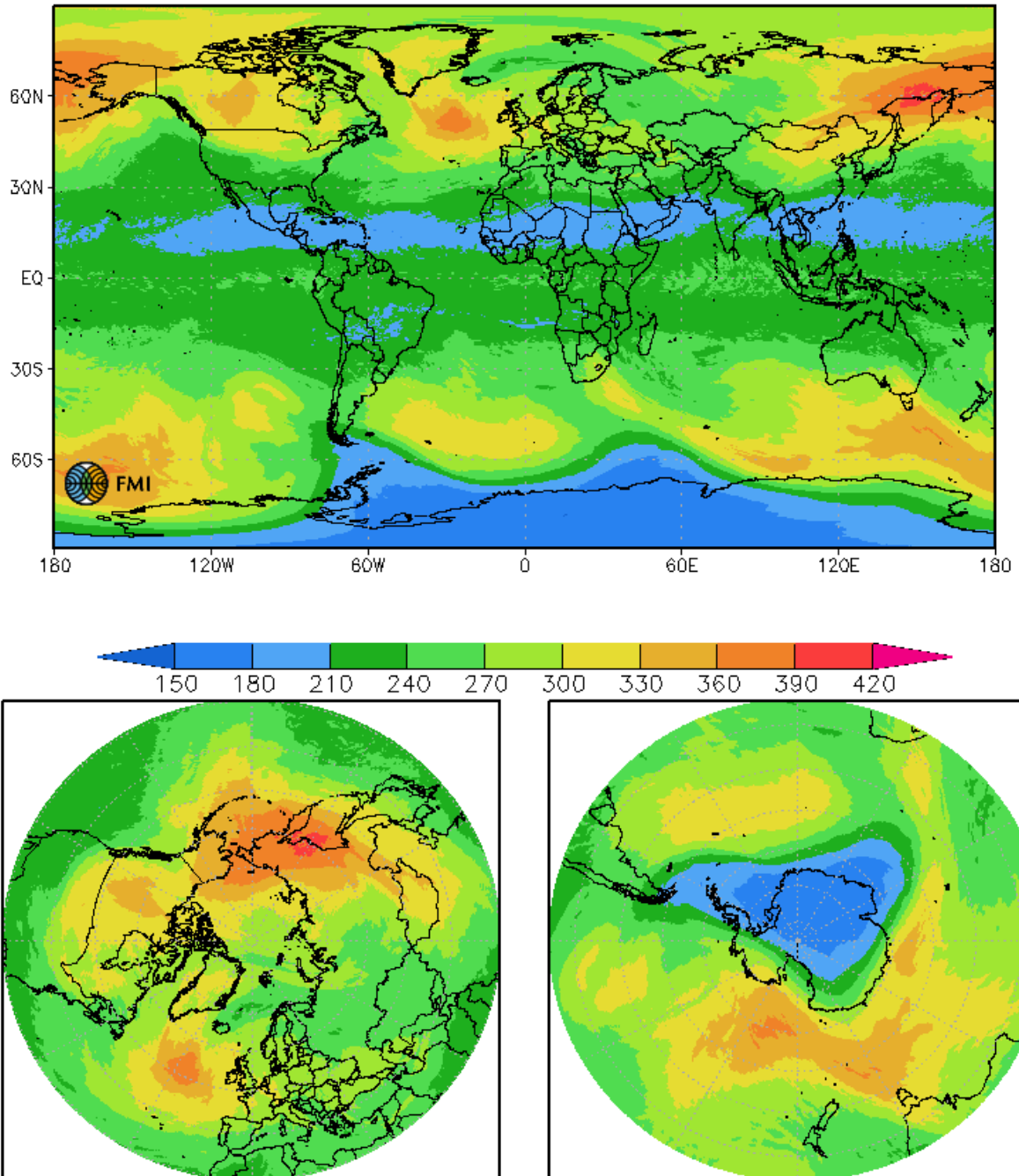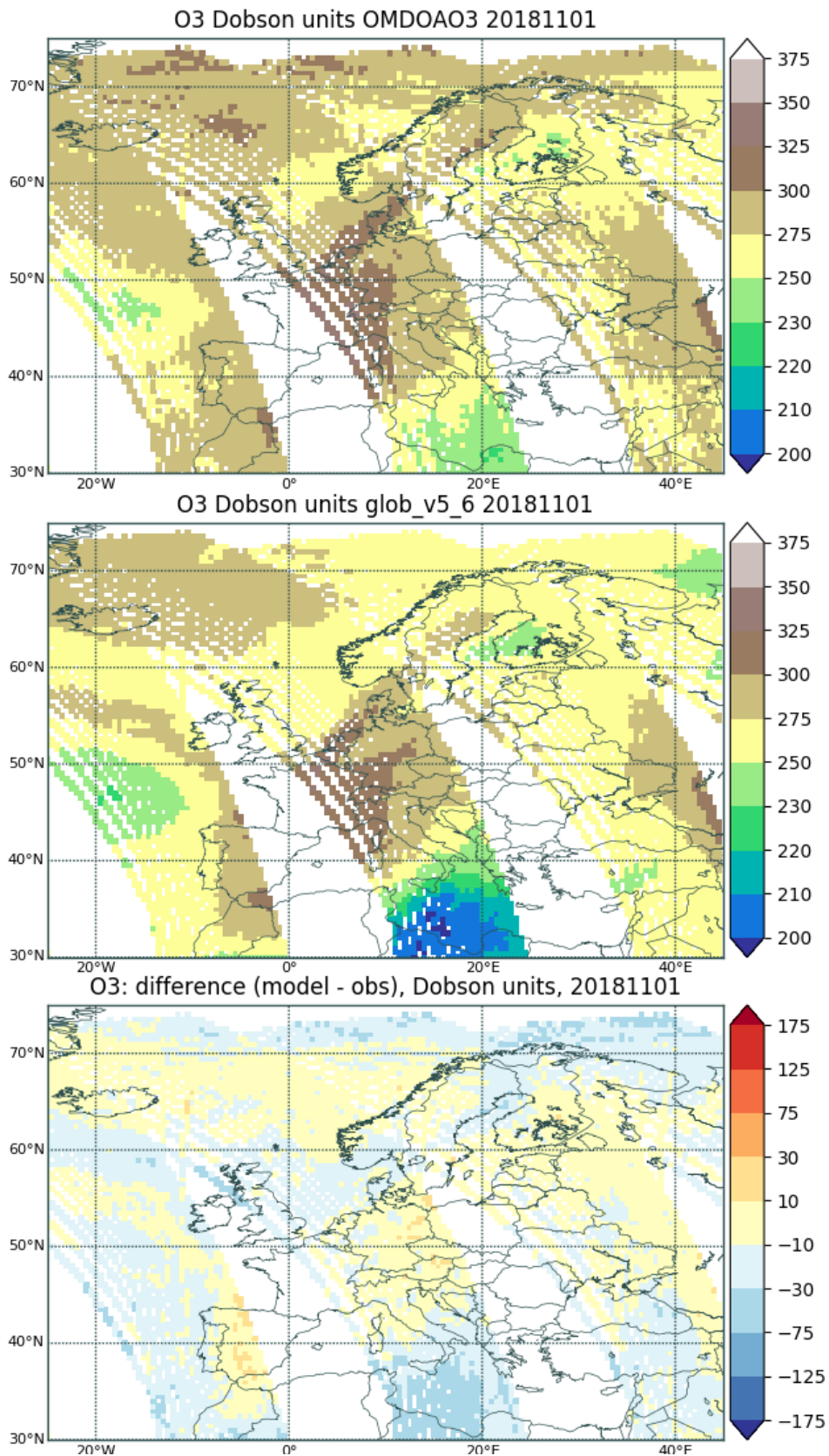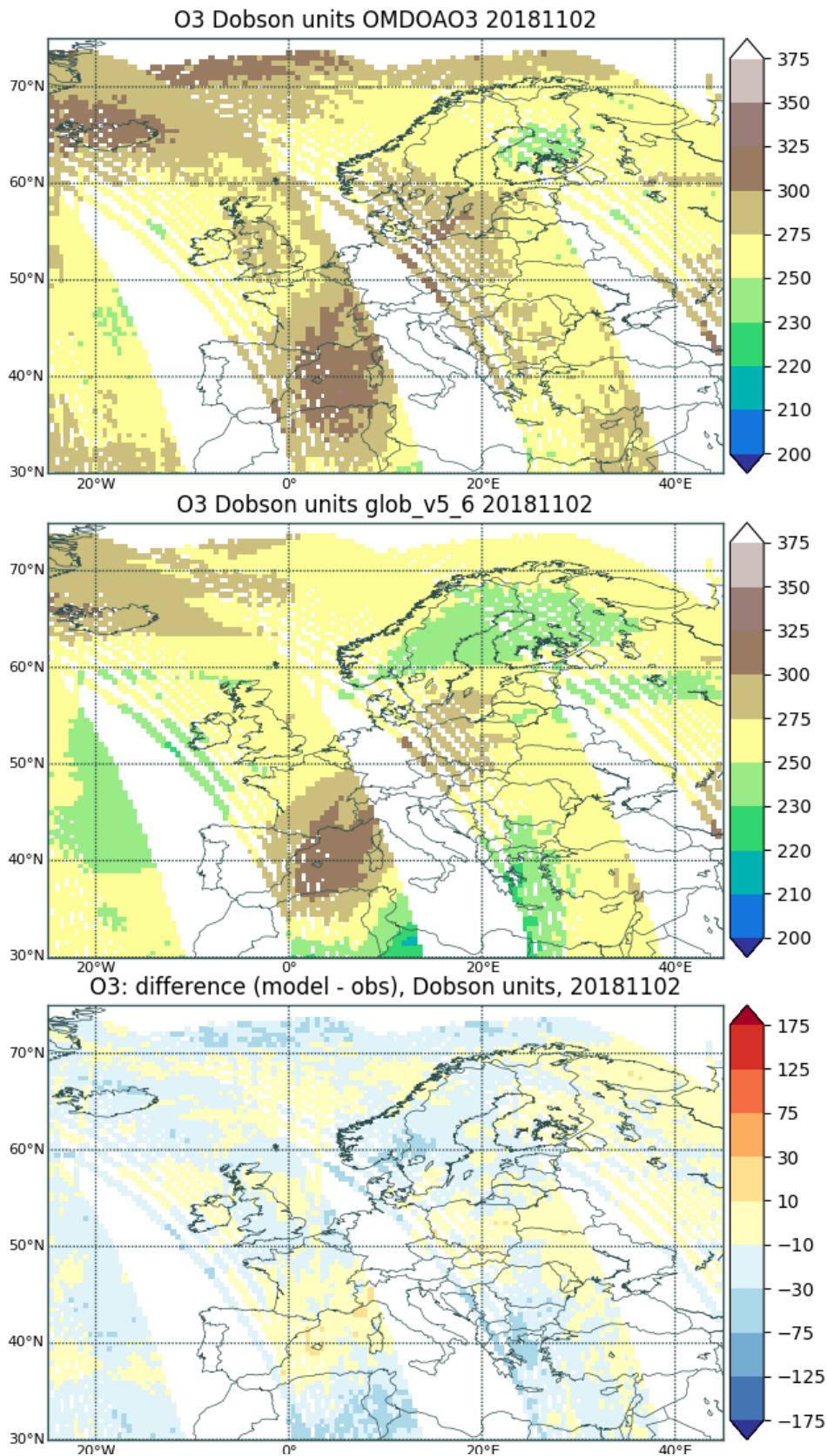O3_column, DobsonUnit, 12:0007NOV2018



**Figure S7. Global ozone column predicted by SILAM on 1.11.2018 for 1.11.2018. [Dubson units]**

**Figure S8. Observed by OMI DOAS (upper panel), predicted by SILAM (middle panel) daily-composite ozone column for 1.11.2018. The lower panel shows the model bias. Only grid cells corresponding to valid OMI observations were retained in the SILAM forecast. Dobson units**

**Figure S9. Observed by OMI DOAS (upper panel), predicted by SILAM (middle panel) daily-composite ozone column for 2.11.2018. The lower panel shows the model bias. Only grid cells corresponding to valid OMI observations were retained in the SILAM forecast. Dobson units**

**Figure S10. Observed by OMI DOAS (upper panel), predicted by SILAM (middle panel) daily-composite ozone column for 3.11.2018. The lower panel shows the model bias. Only grid cells corresponding to valid OMI observations were retained in the SILAM forecast. Dobson units**
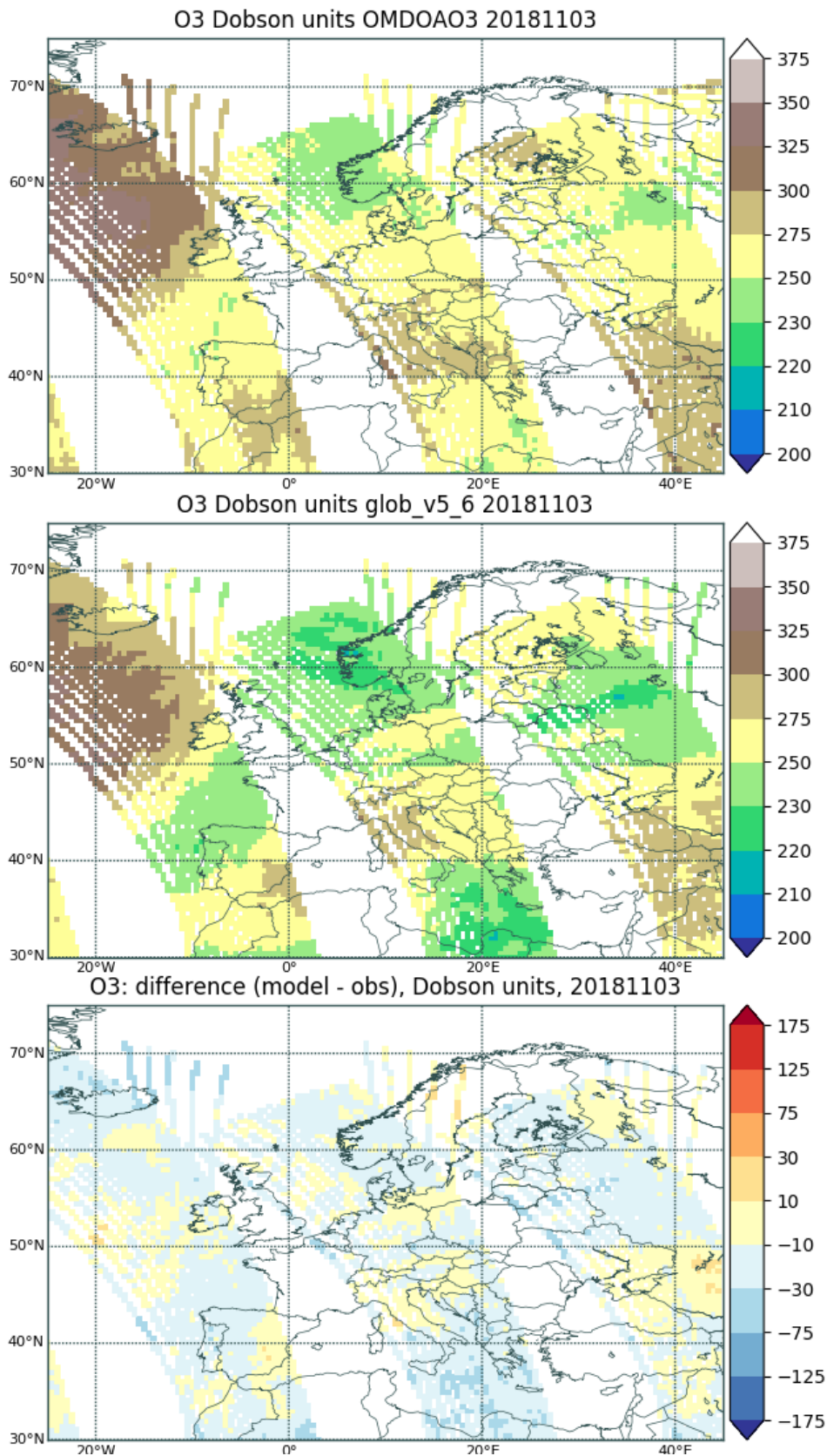
**Figure S11. Observed by OMI DOAS (upper panel), predicted by SILAM (middle panel) daily-composite ozone column for 4.11.2018. The lower panel shows the model bias. Only grid cells corresponding to valid OMI observations were retained in the SILAM forecast. Dobson units**
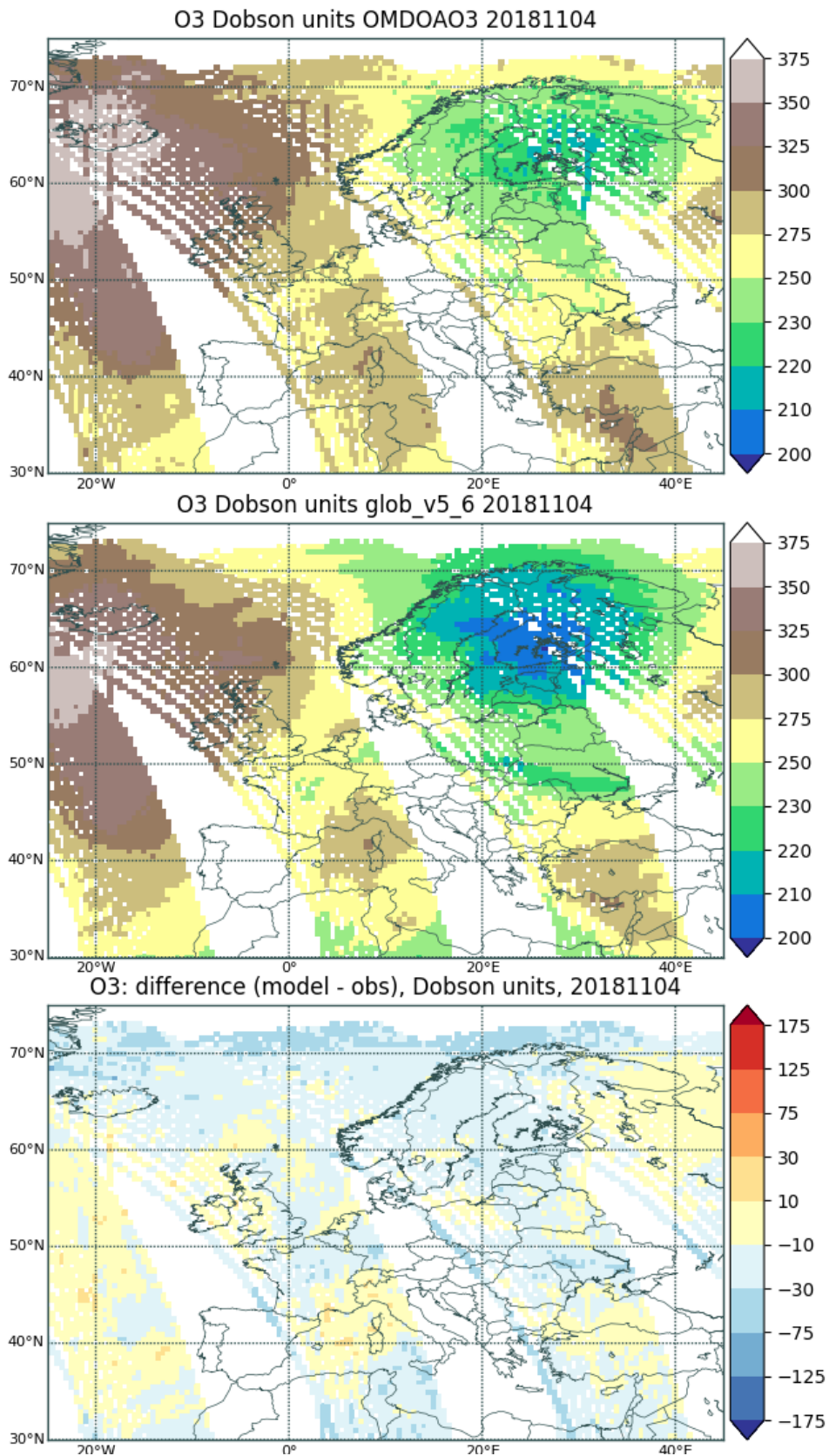
**Figure S12. Observed by OMI DOAS (upper panel), predicted by SILAM (middle panel) daily-composite ozone column for 5.11.2018. The lower panel shows the model bias. Only grid cells corresponding to valid OMI observations were retained in the SILAM forecast. Dobson units**
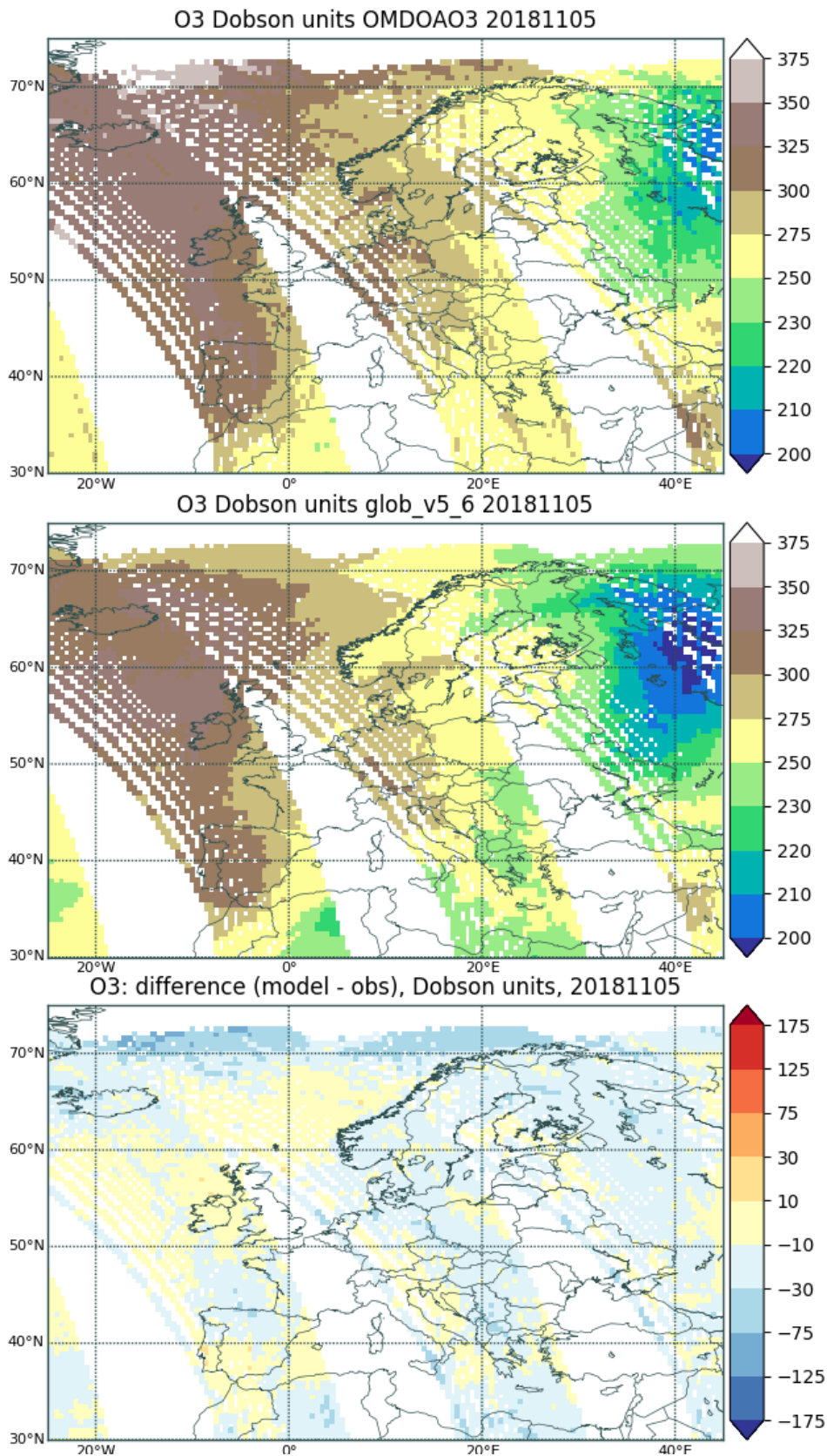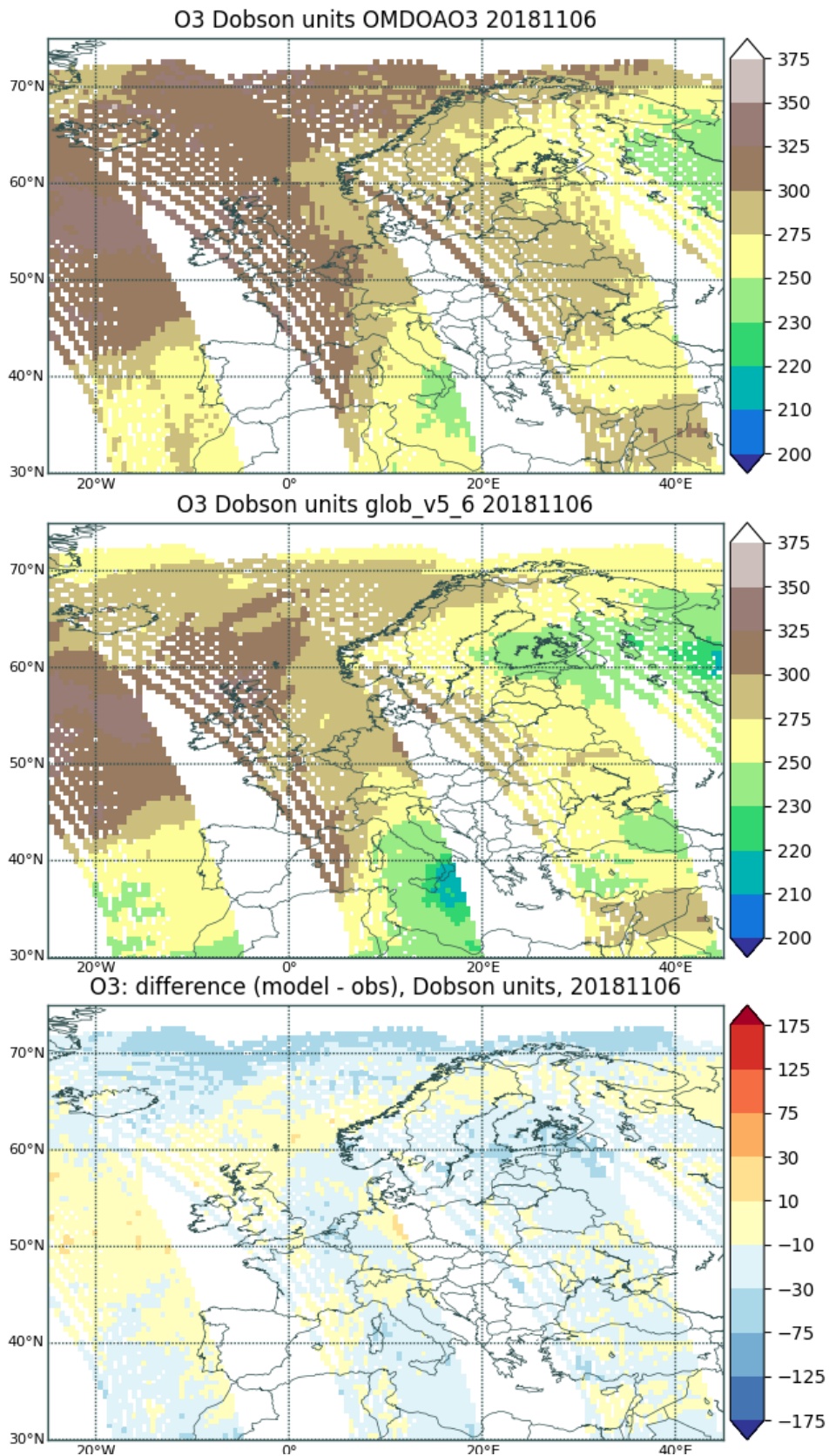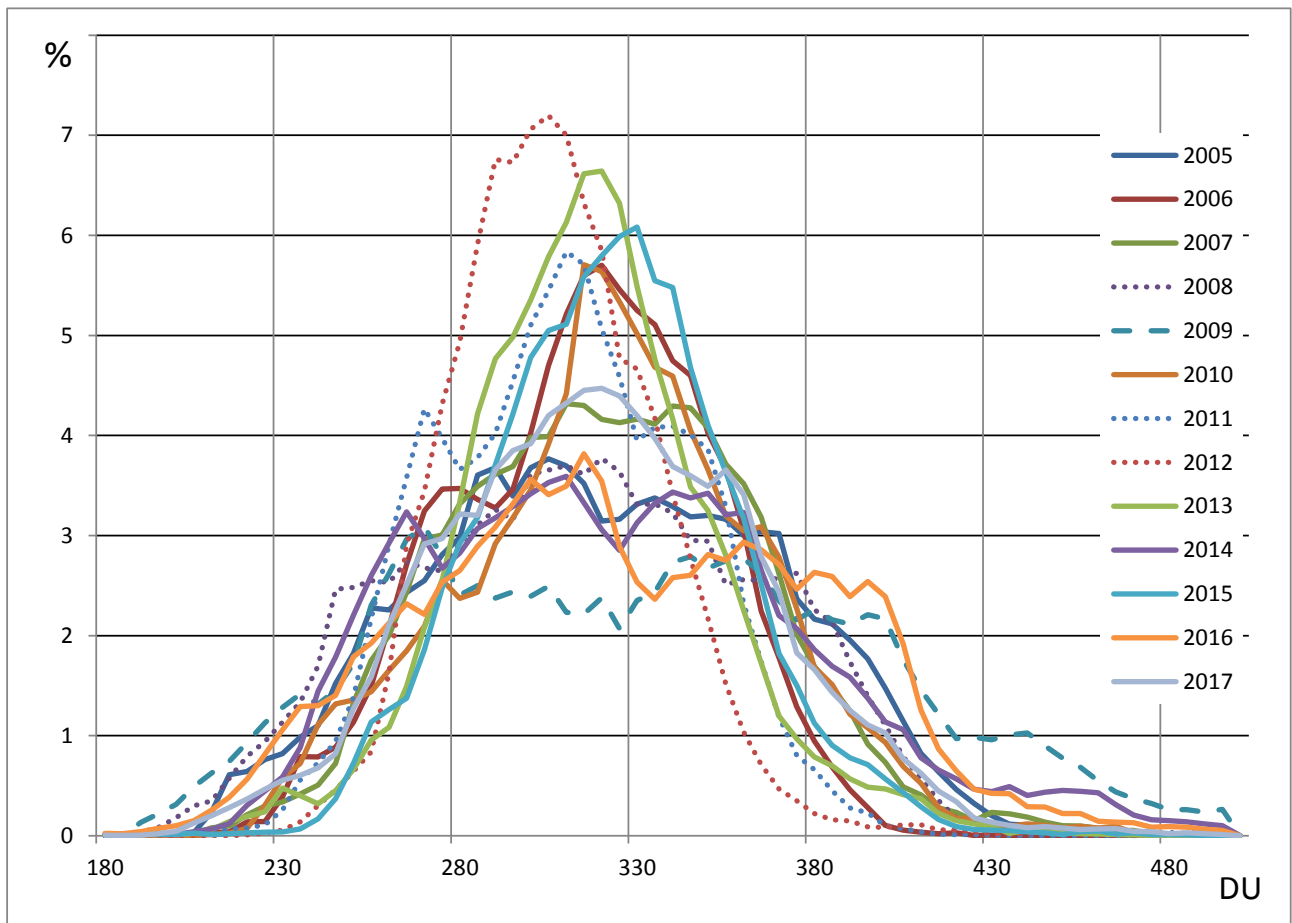
**Figure S13. Observed by OMI DOAS (upper panel), predicted by SILAM (middle panel) daily-composite ozone column for 6.11.2018. The lower panel shows the model bias. Only grid cells corresponding to valid OMI observations were retained in the SILAM forecast. Dobson units**

**Figure S14. Frequency distribution of ozone total column as observed by OMI for November 2005-2017, latitude belt 60N – 90N. Extreme years are additionally highlighted by the specific line shapes. Dobson units.**