Air pollution in Shanghai

Aerosol absorption

AeroCom Phase III

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Comparing the absorption in AeroCom models (6 to 12 models depending on properties)

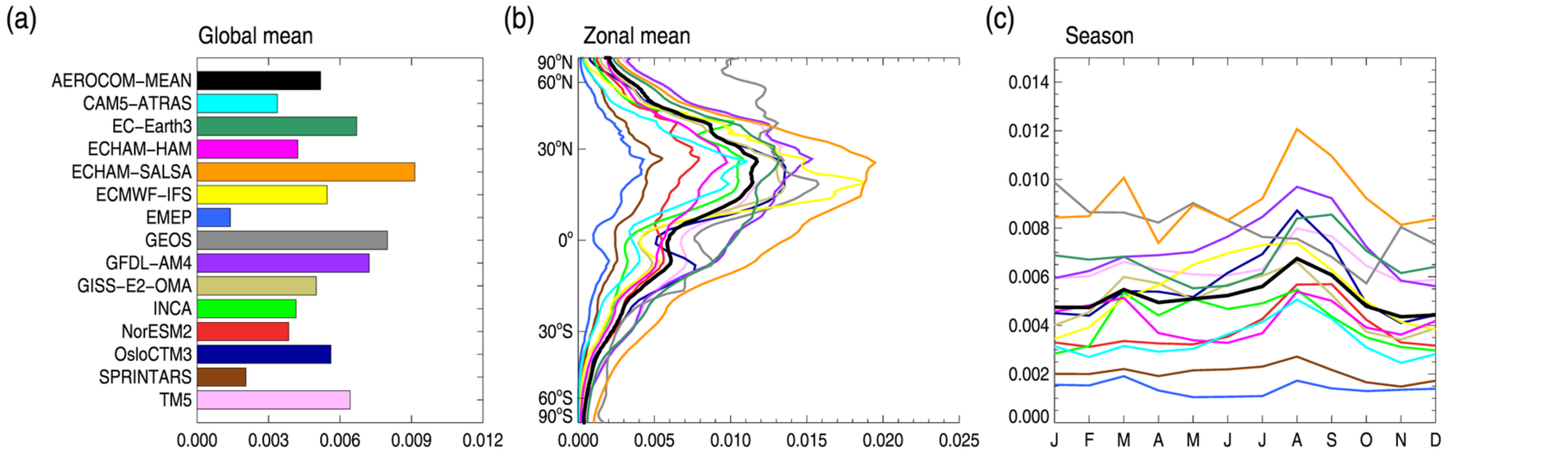
- **Total Aerosol Absorption Optical Depth (AAOD) at λ = 550 nm**
- **Black Carbon Absorption Optical Depth at λ = 550 nm**
- **Organic Aerosols Absorption Optical Depth at λ = 550 nm**
- **Dust Absorption Optical Depth at λ = 550 nm**
- **Black Carbon Mass Absorption X-section (MAC) at λ = 550 nm**
- **Absorption Ångström Exponent (AAE) at λ = 440 and 870 nm**

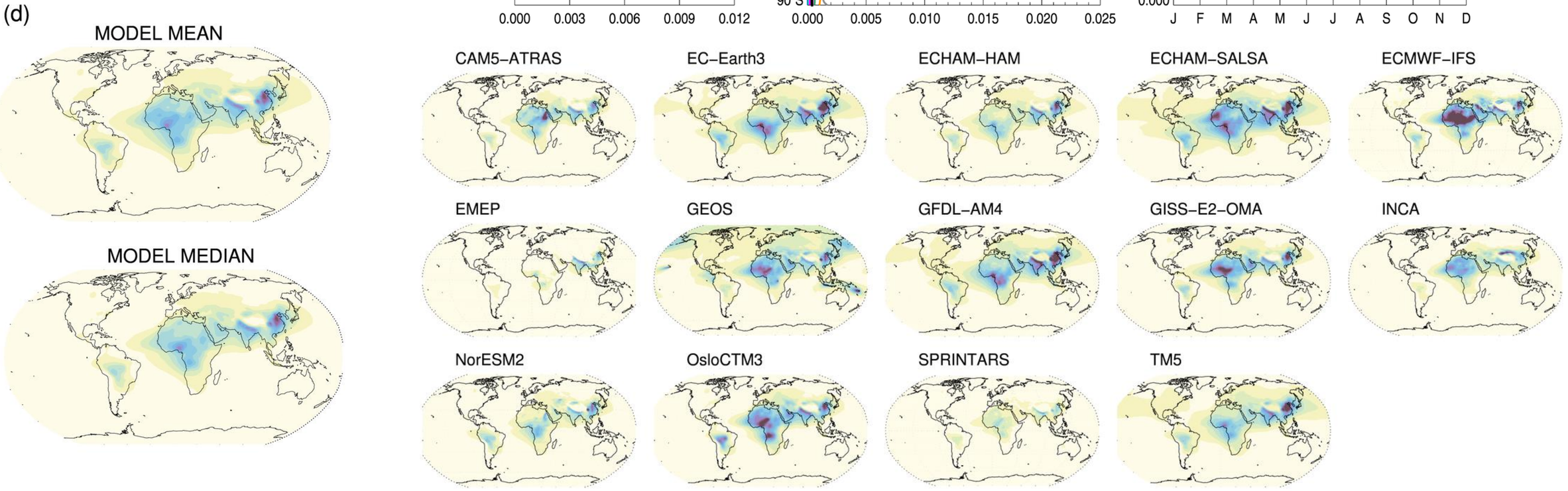
- **Global annual distributions**
- **Seasonality**
- **Vertical distribution**

The above properties are
***NOT** provided by all models …*
… please participate ☺

Total Aerosol Absorbtion Optical Depth (AAOD) at λ = 550 nm

MODEL MEAN: 0.0052





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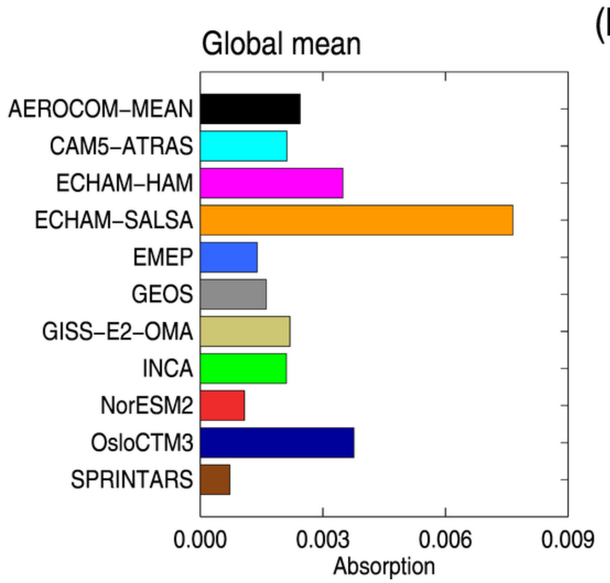
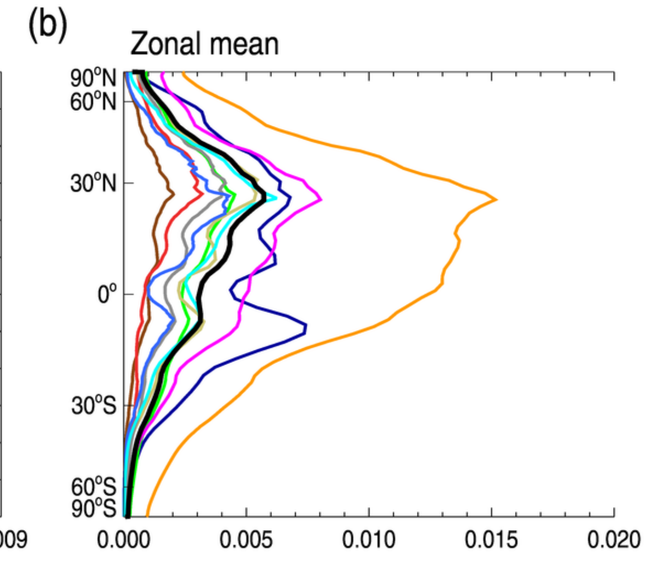
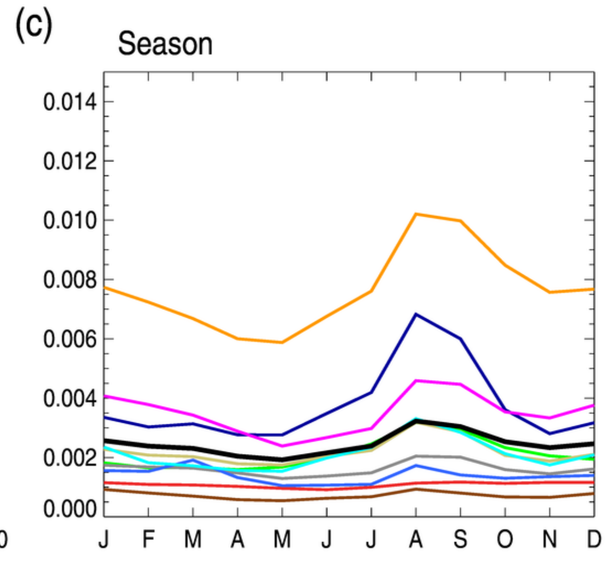
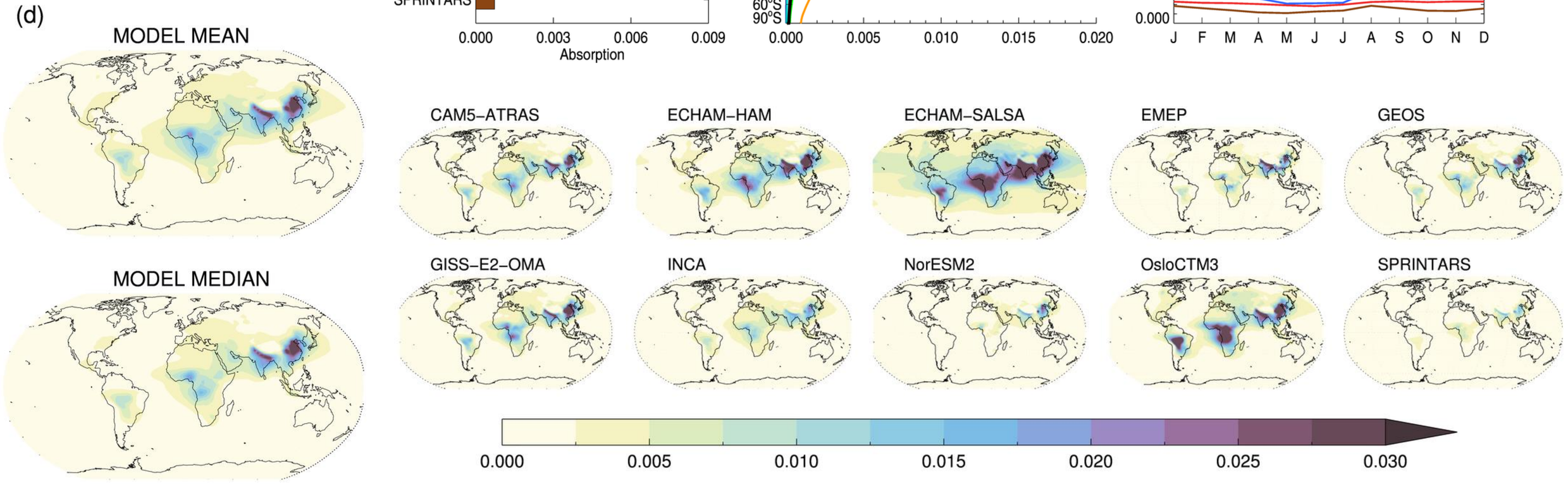
Black Carbon Absorbtion Optical Depth at λ = 550 nm

MODEL MEAN: 0.0026









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