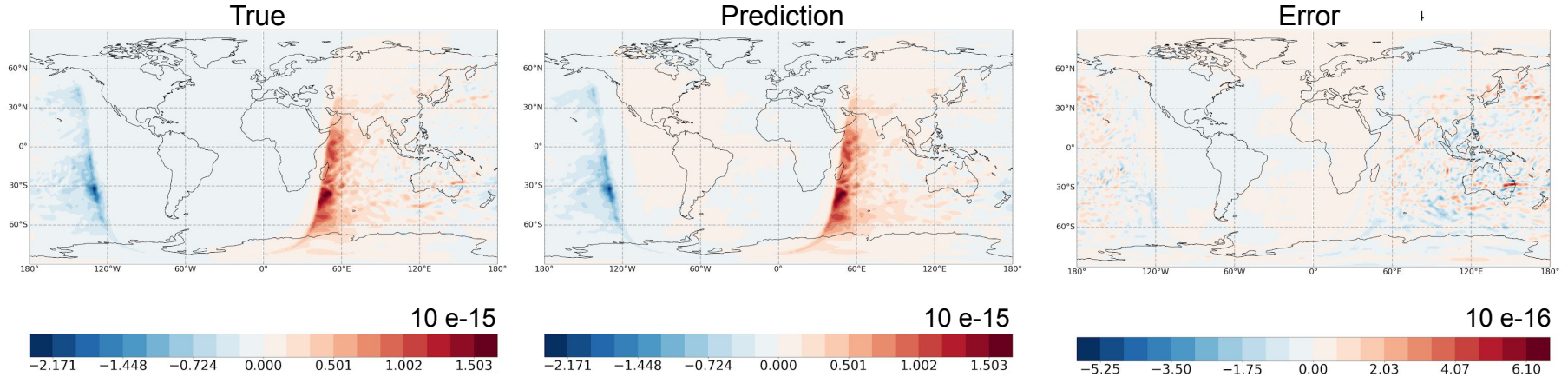


AI for Fast Atmospheric Chemistry

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Objective:

- Replace crucial part of atmospheric model EMAC with neural network approximation
- Achieve at least a 10x speedup over current implementation with minimal differences

Data:

- 110 chemicals + 4 additional variables
- Global simulation data from the stratosphere
- Spanning 1 year with 1.8 billion training samples (6.9TB raw data)