

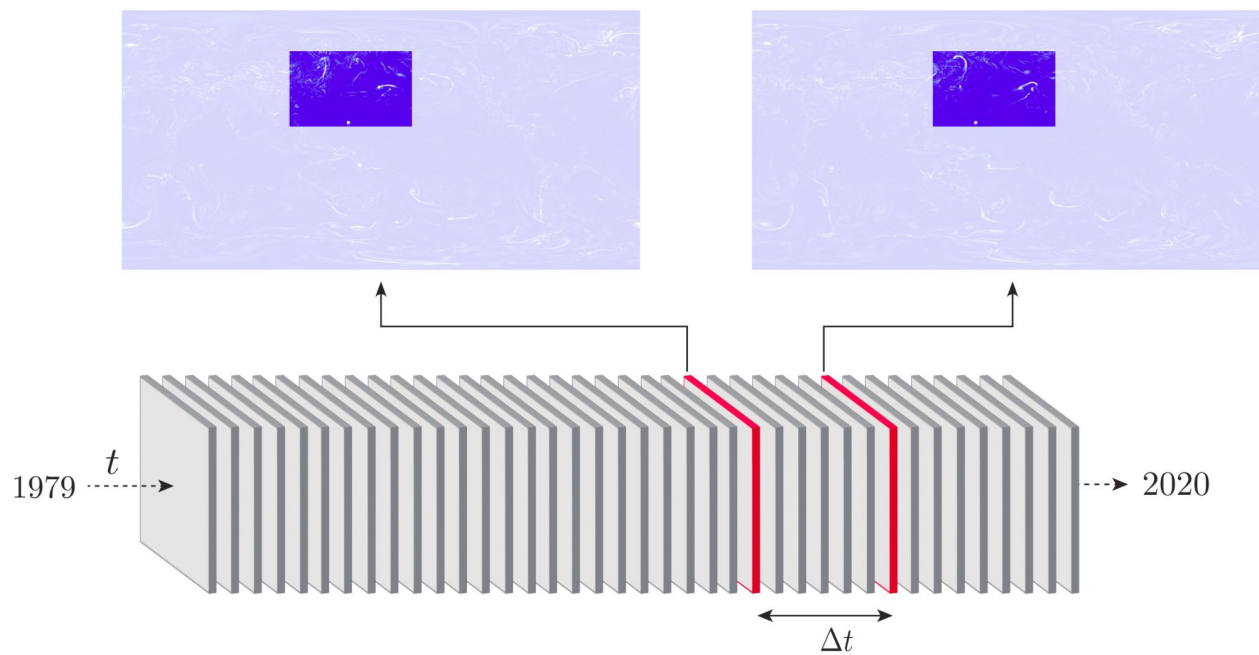
# AtmoDist

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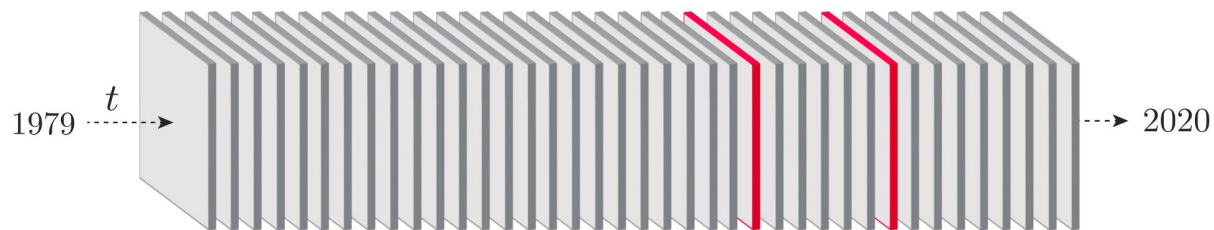
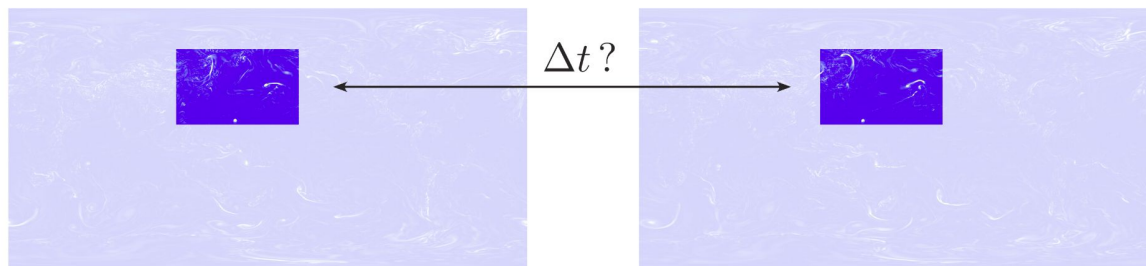
A pathway to quantifying atmospheric predictability?

Sebastian Hoffmann (Magdeburg), Yi Deng (Georgia Tech), Christian Lessig (Magdeburg)

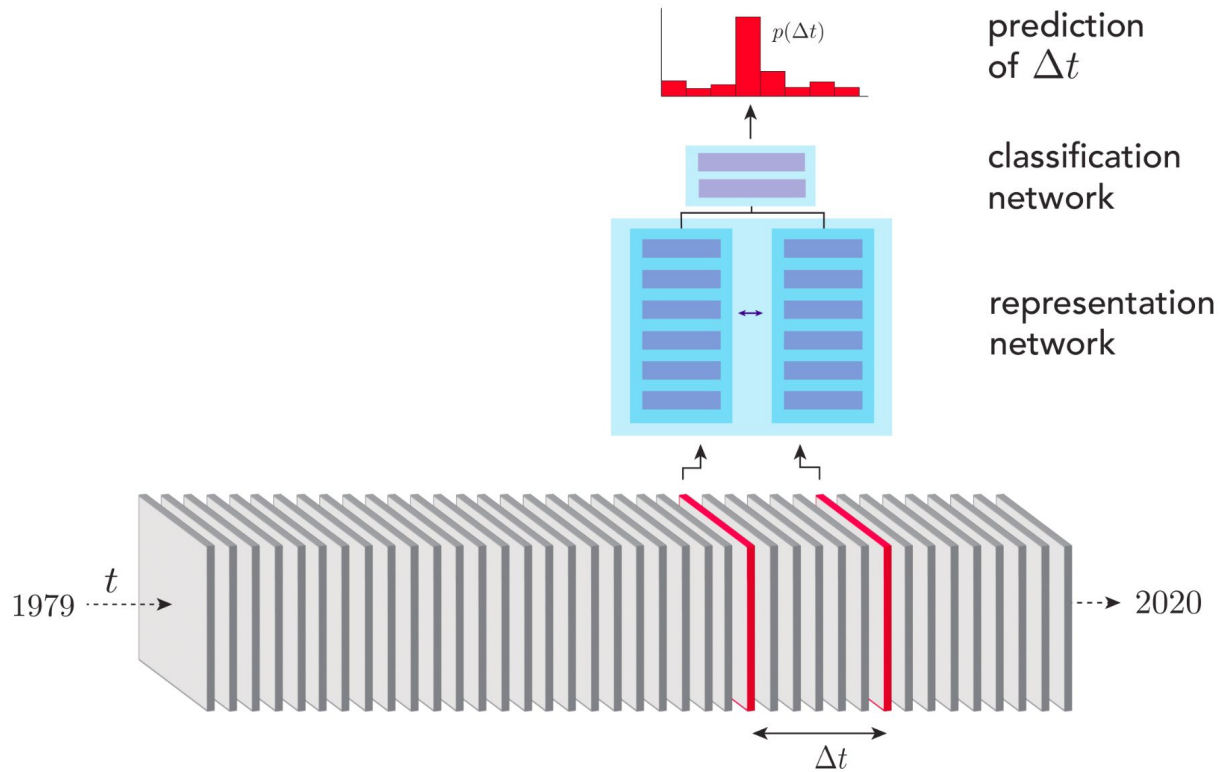
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# Can we do more?

Two kind of errors:

1. Errors from the neural network itself (underfitting)
2. Limited inherent predictability of the atmosphere

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ERA5 900hPa Vorticity & Divergence

Temporal resolution: 3h

Spatial resolution: 0.14°

Time-lag: 2 day

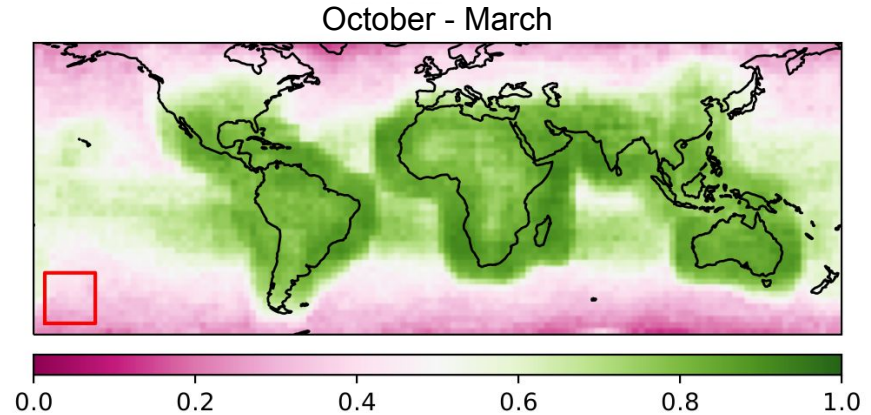
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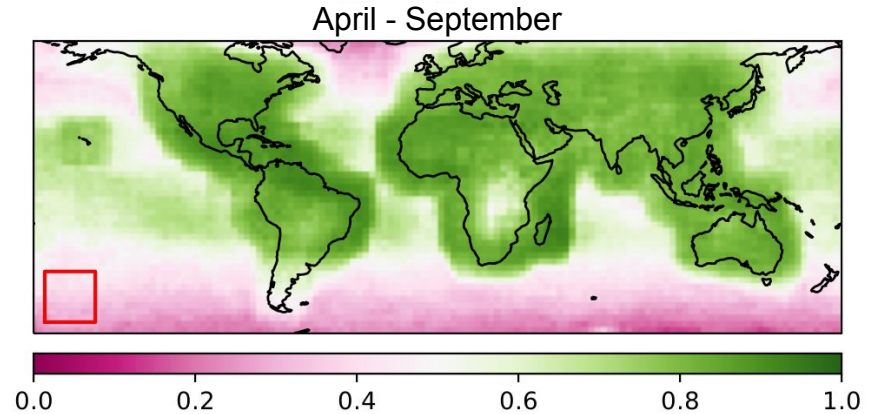
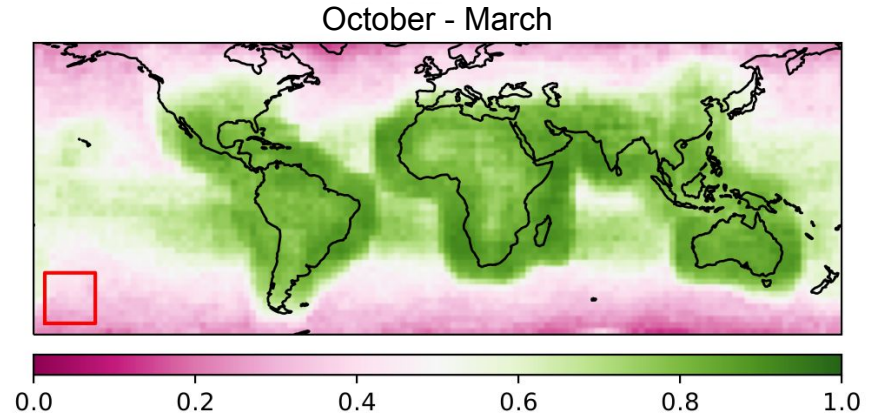
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# Synoptic scale

NCEP/NCAR Reanalysis

Geopotential Height (250, 500,  
850hPa)

Temporal resolution: daily means

Spatial resolution: 2.5°

Time-lag: 3-6 days

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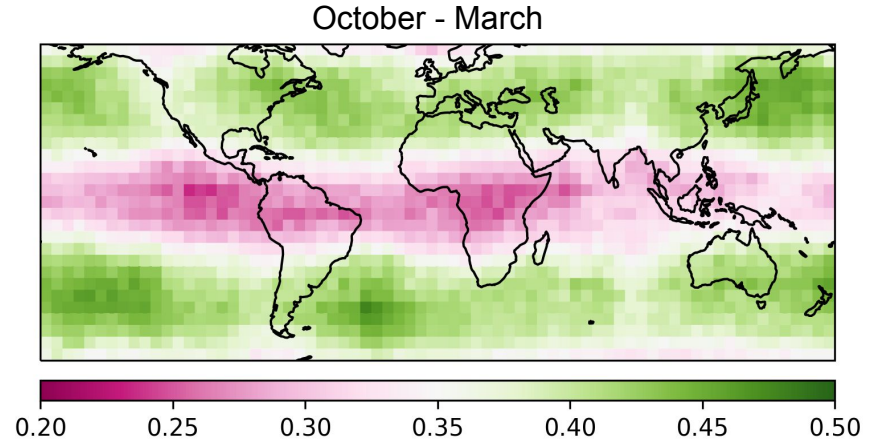
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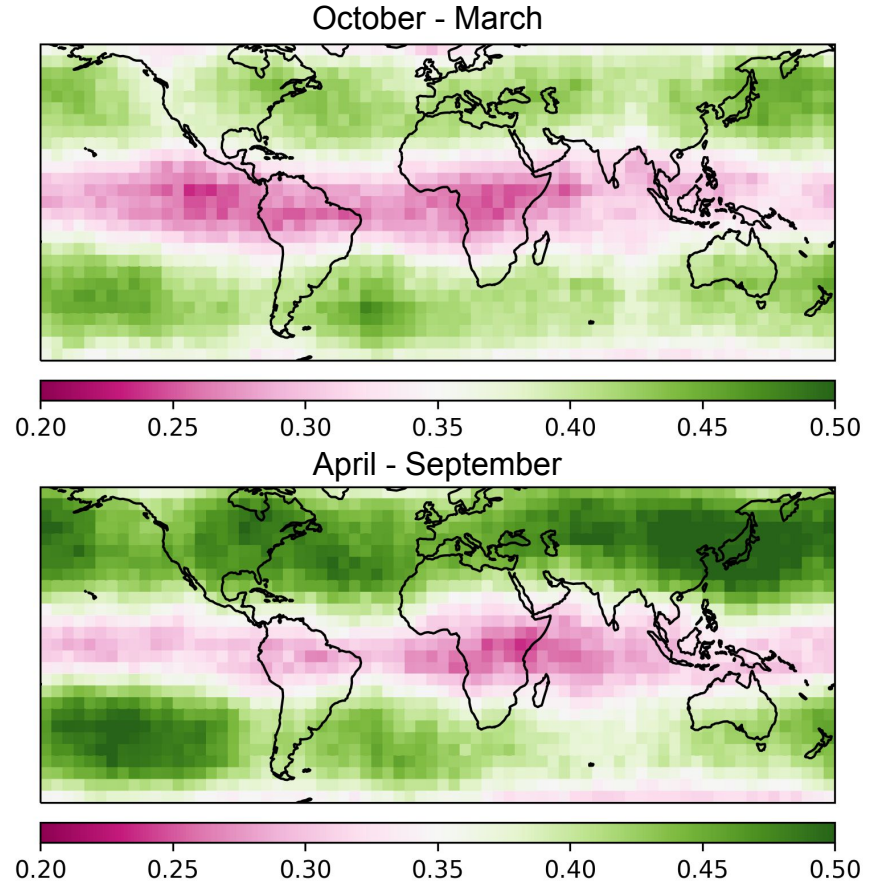
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# Thanks for your attention!

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Check out our paper at <https://arxiv.org/abs/2202.01897>

Code available at <https://github.com/sehoffmann/atmodist>