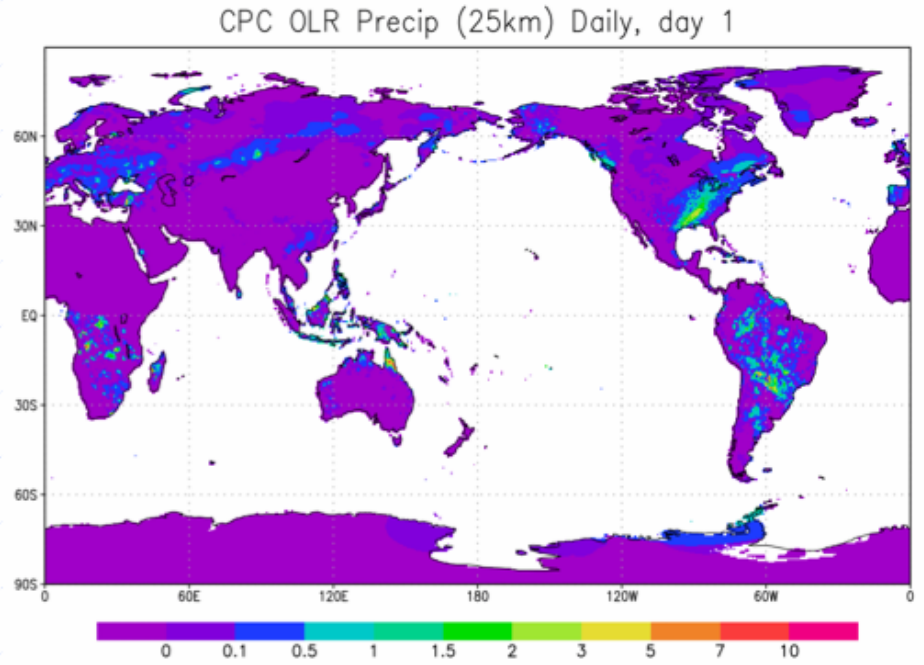
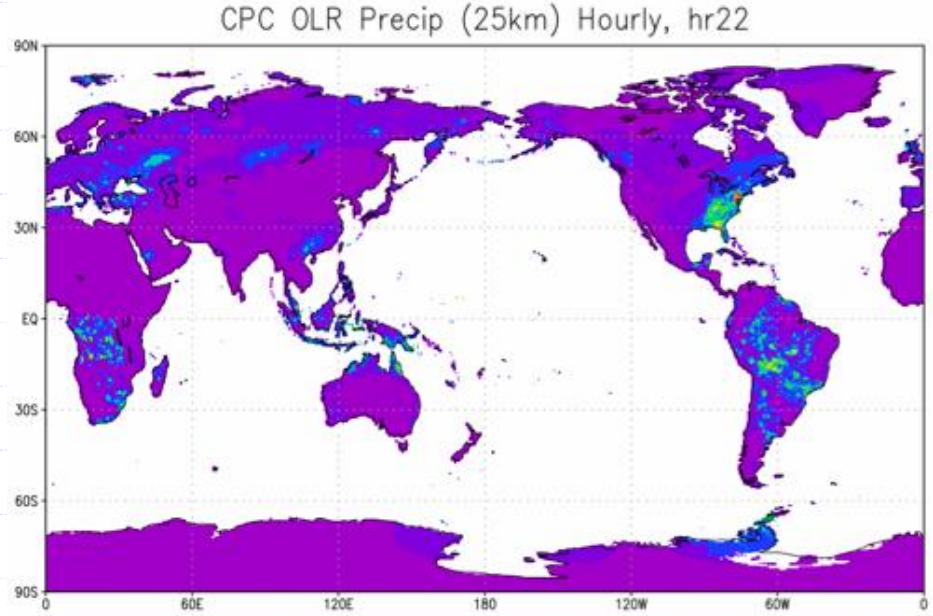
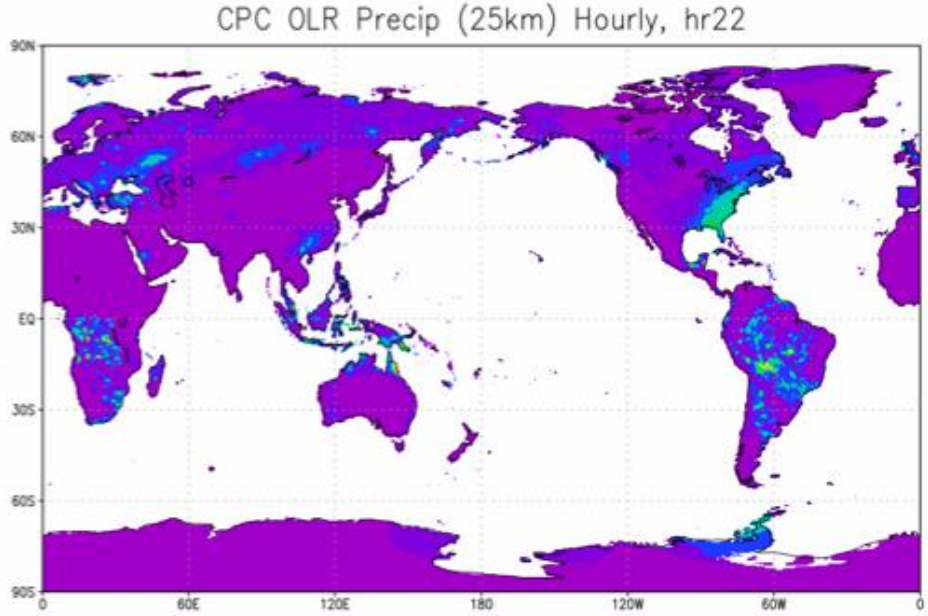
3-day test simulation

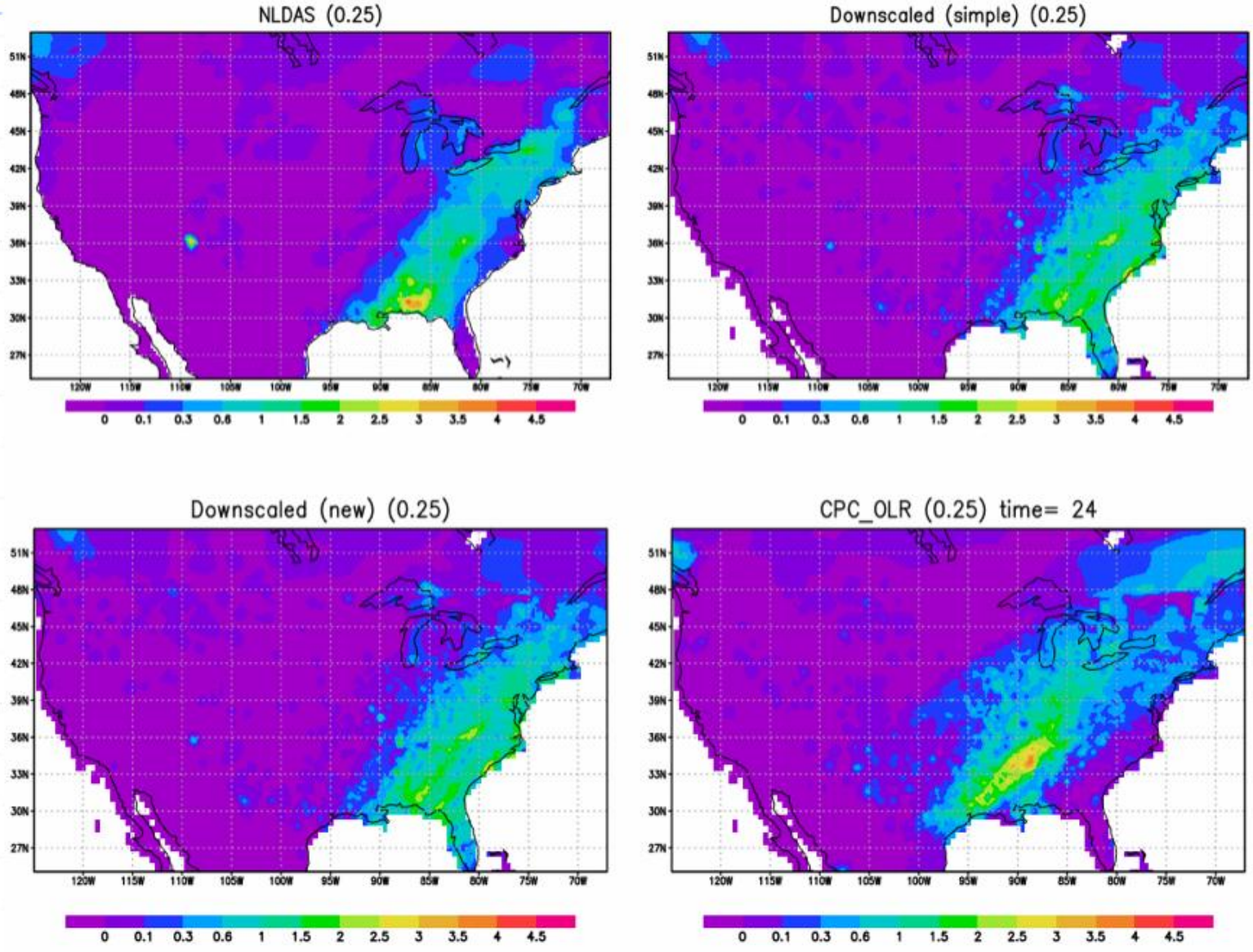
- CPC OLR precipitation
- From daily to hourly



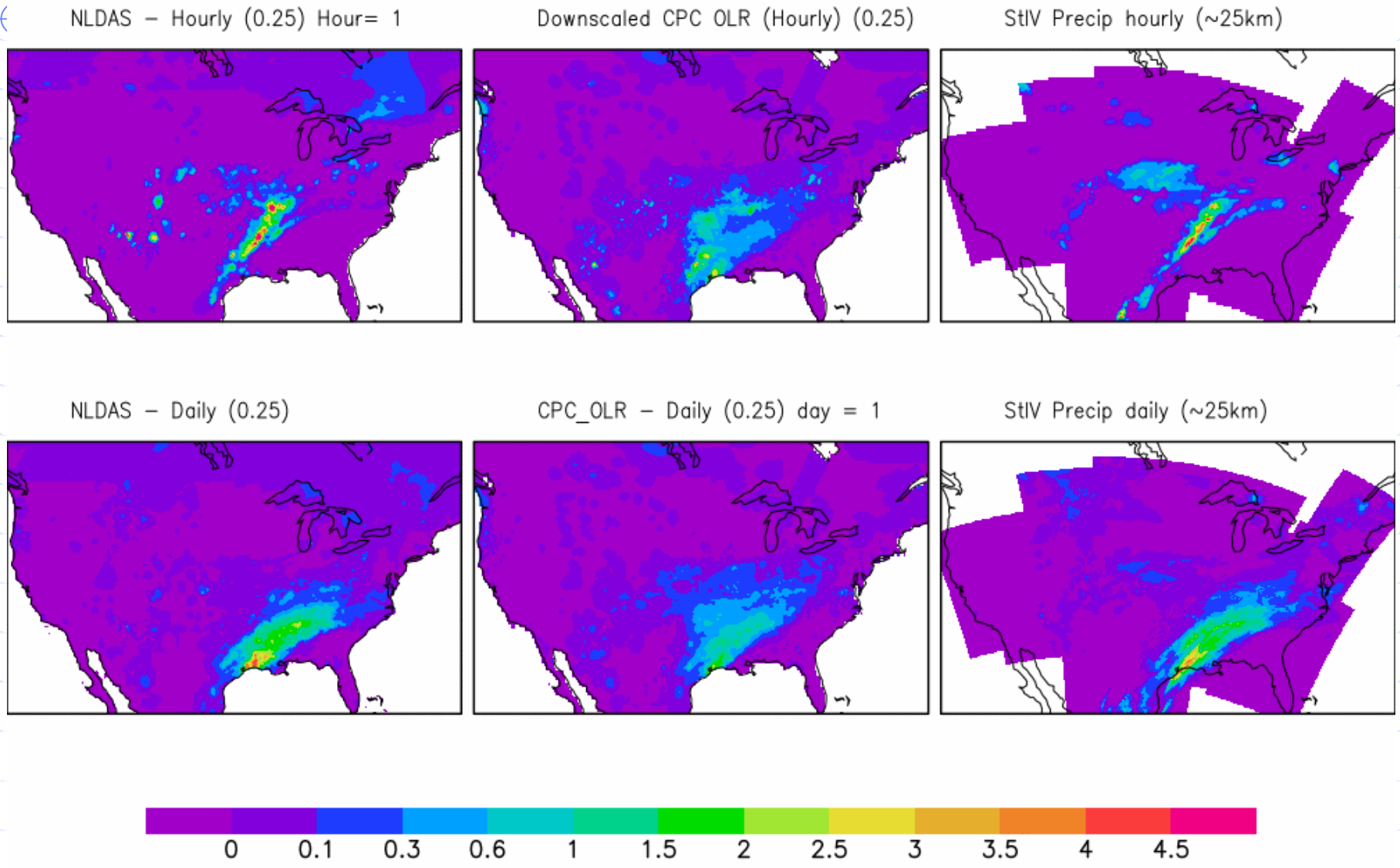




Comparison with NLDAS (1979)



Comparison with NLDAS and StIV (2013)



Conclusion

- Space-time downscaling of precipitation is an important research issue
- While stochastic and physical downscaling methods have their shortcomings, a combination of them can be applied for improving downscaled precipitation
- A combination of best-fit interpolation, random cascade disaggregation, and translation model is used to demonstrate the downscaling of precipitation across a range of scales.

Thank you for your kind attention