3-day test simulation

- CPC OLR precipitation
- From daily to hourly
Comparison with NLDAS (1979)
Comparison with NLDAS and StIV (2013)

- NLDAS: Hourly (0.25) Hour = 1
- Downscaled CPC OLR (Hourly) (0.25)
- StIV Precip hourly (~25km)

- NLDAS: Daily (0.25)
- CPC_OLR: Daily (0.25) day = 1
- StIV Precip daily (~25km)
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