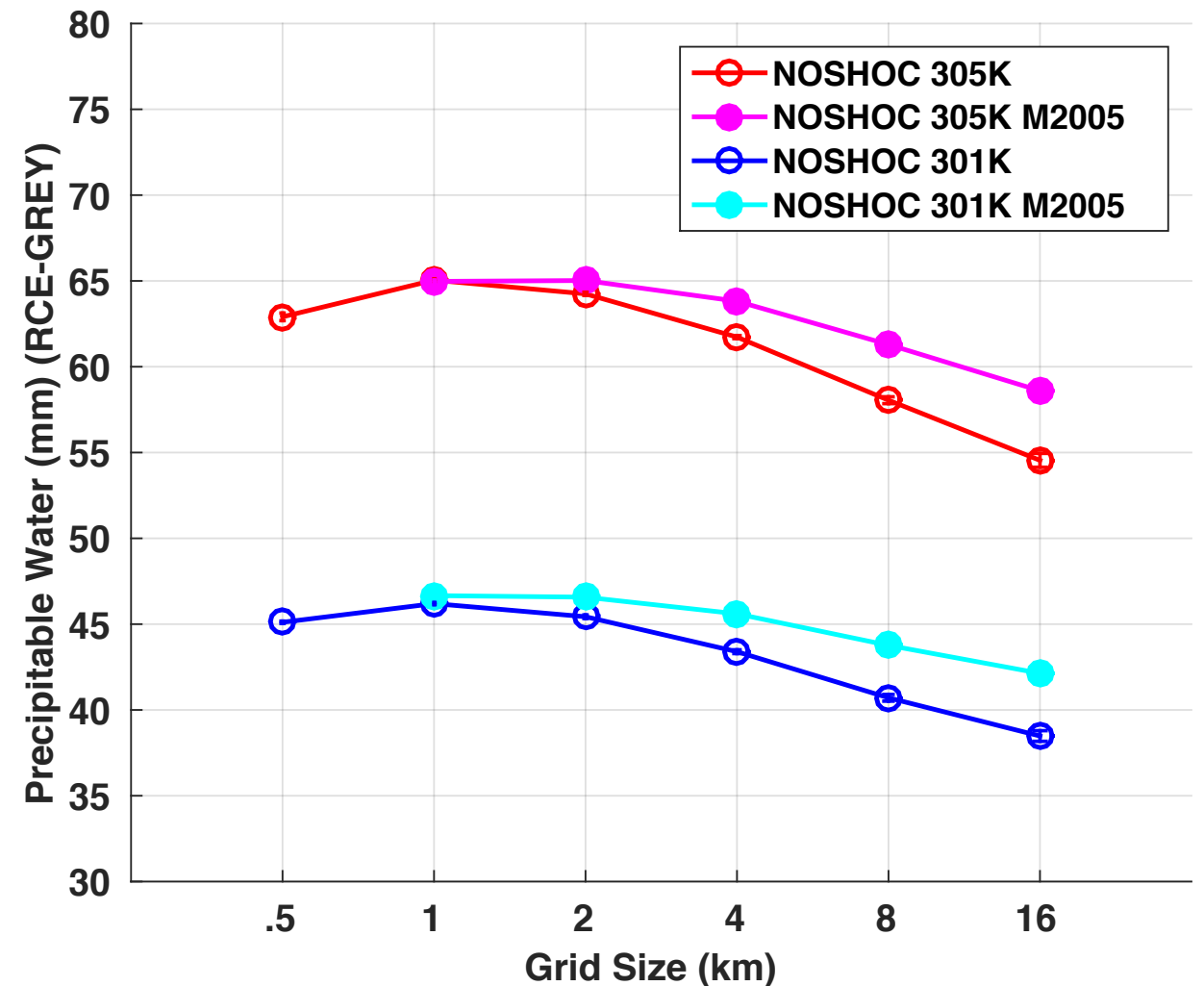
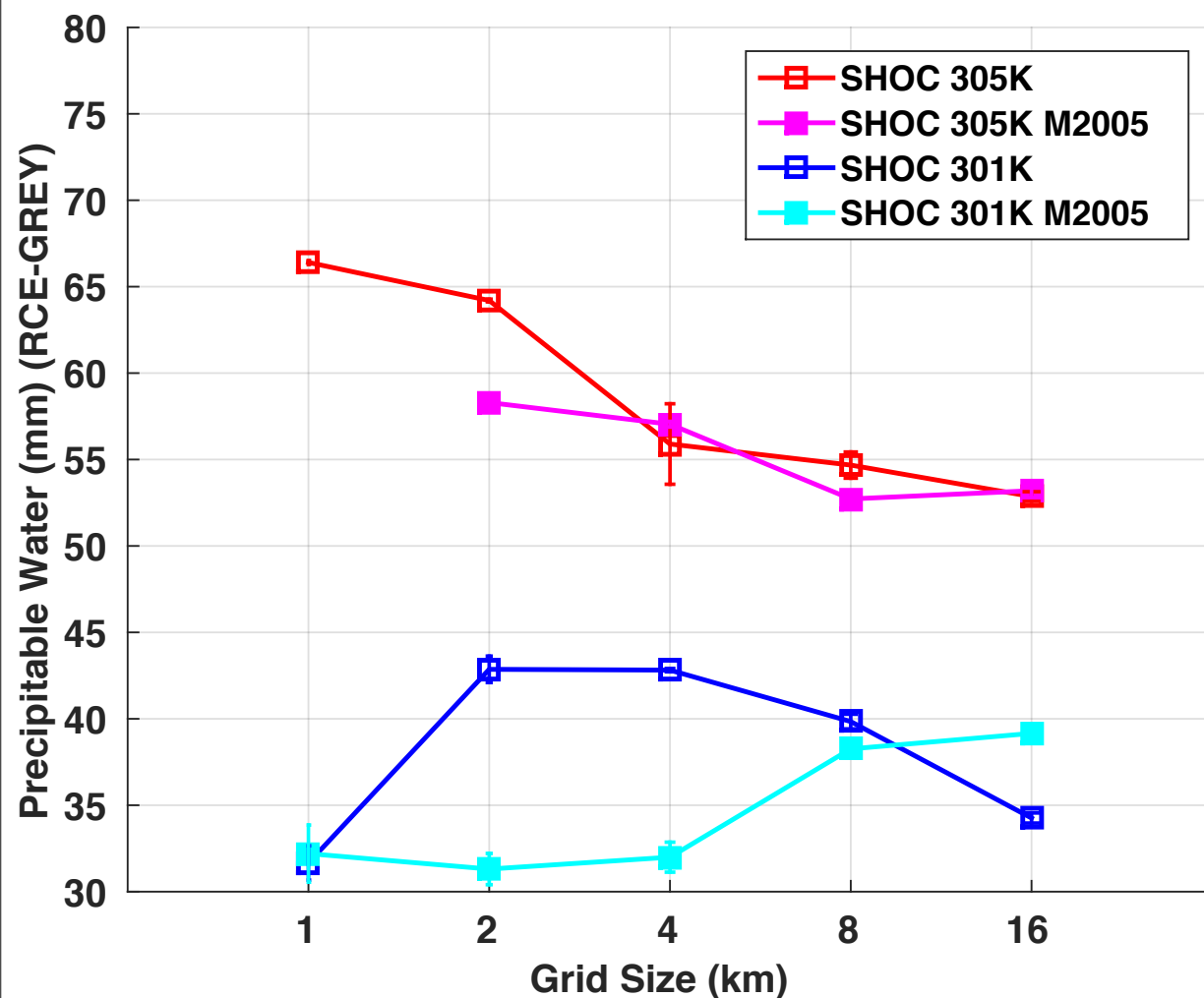


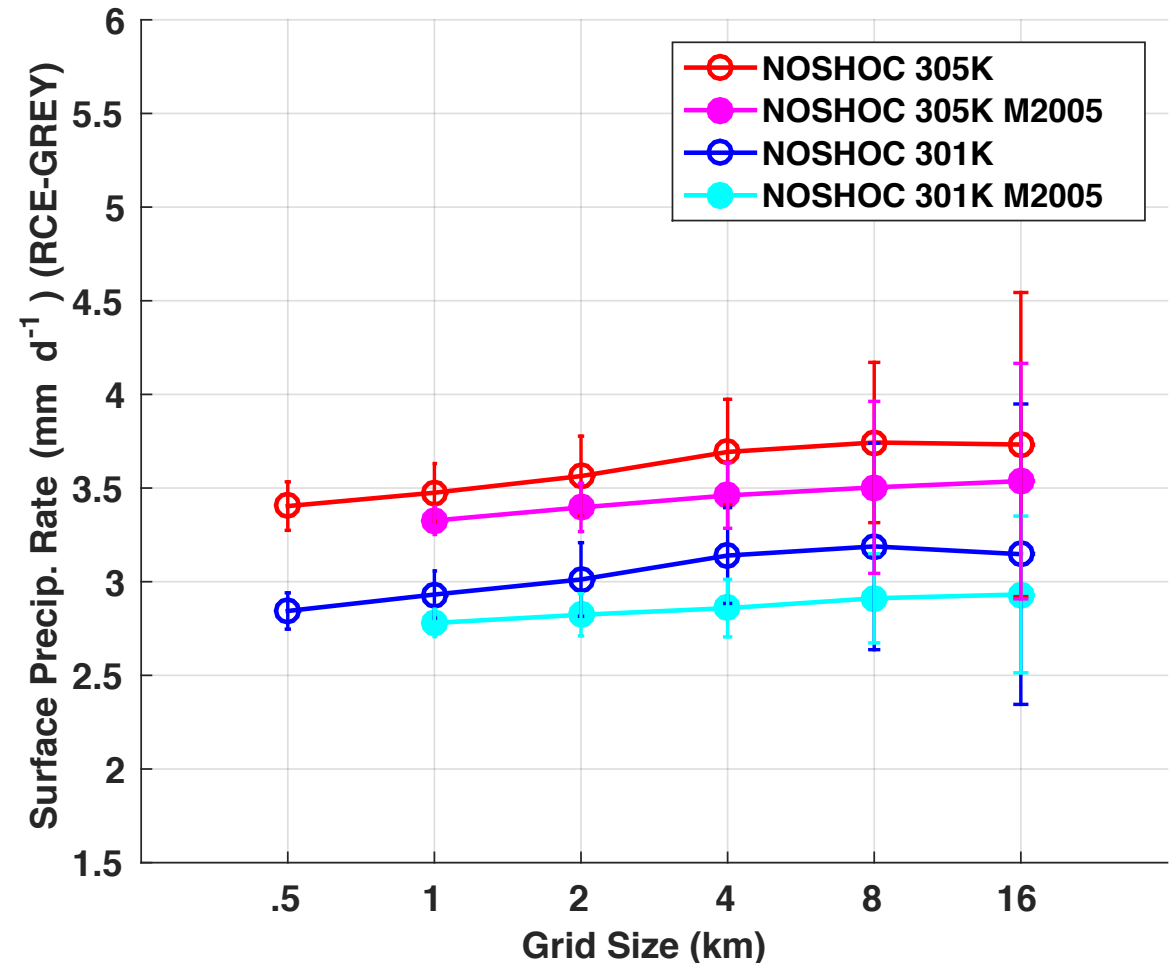
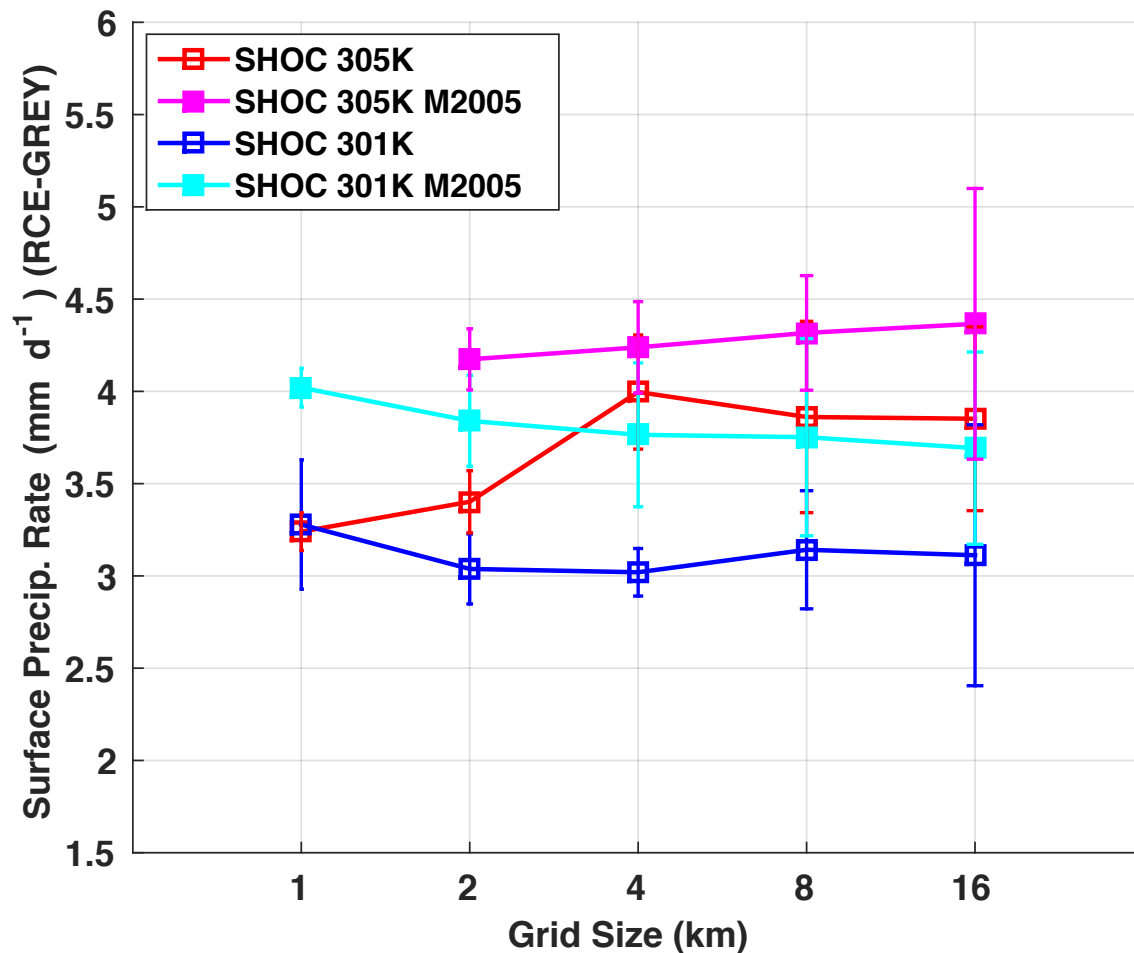
RCE-GREY Run Comparisons: SHOC vs NOSHOC

Precipitable Water



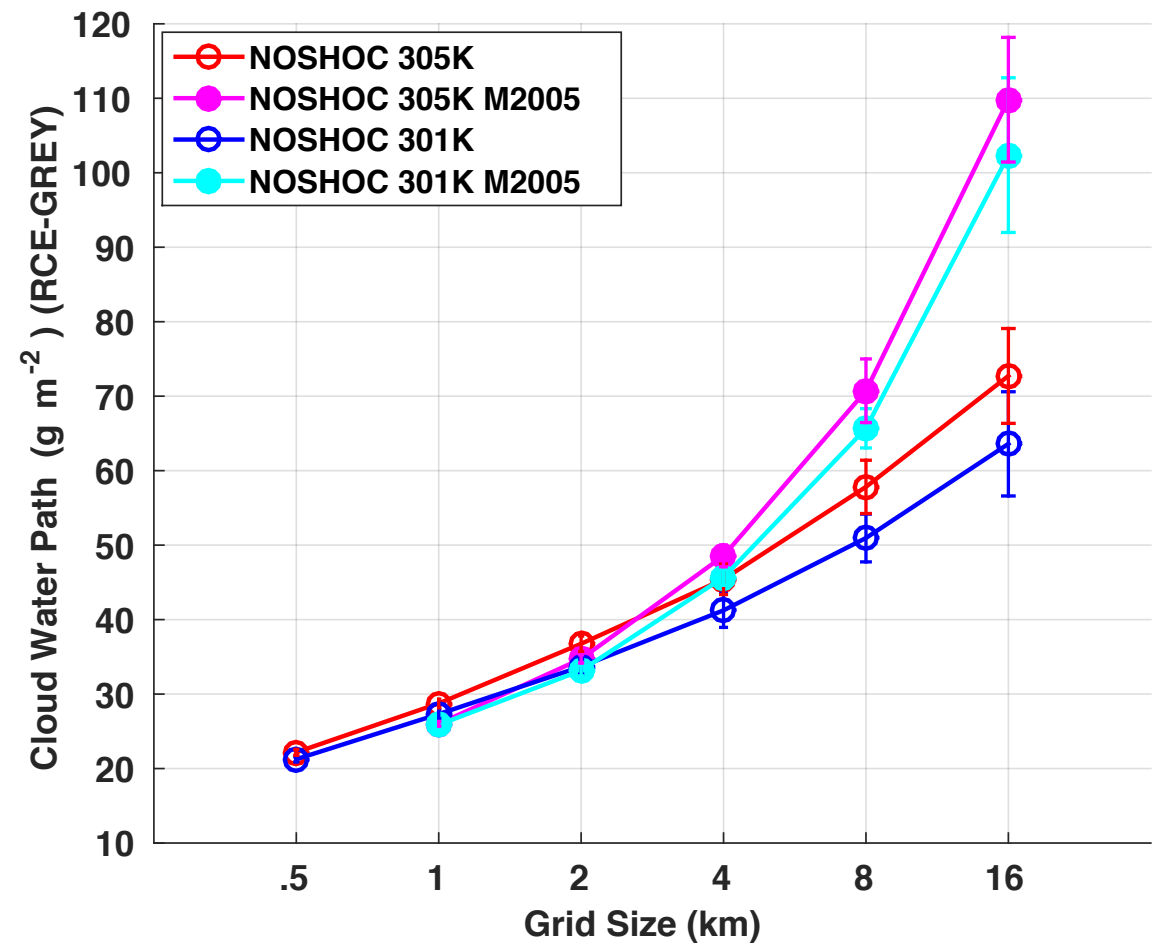
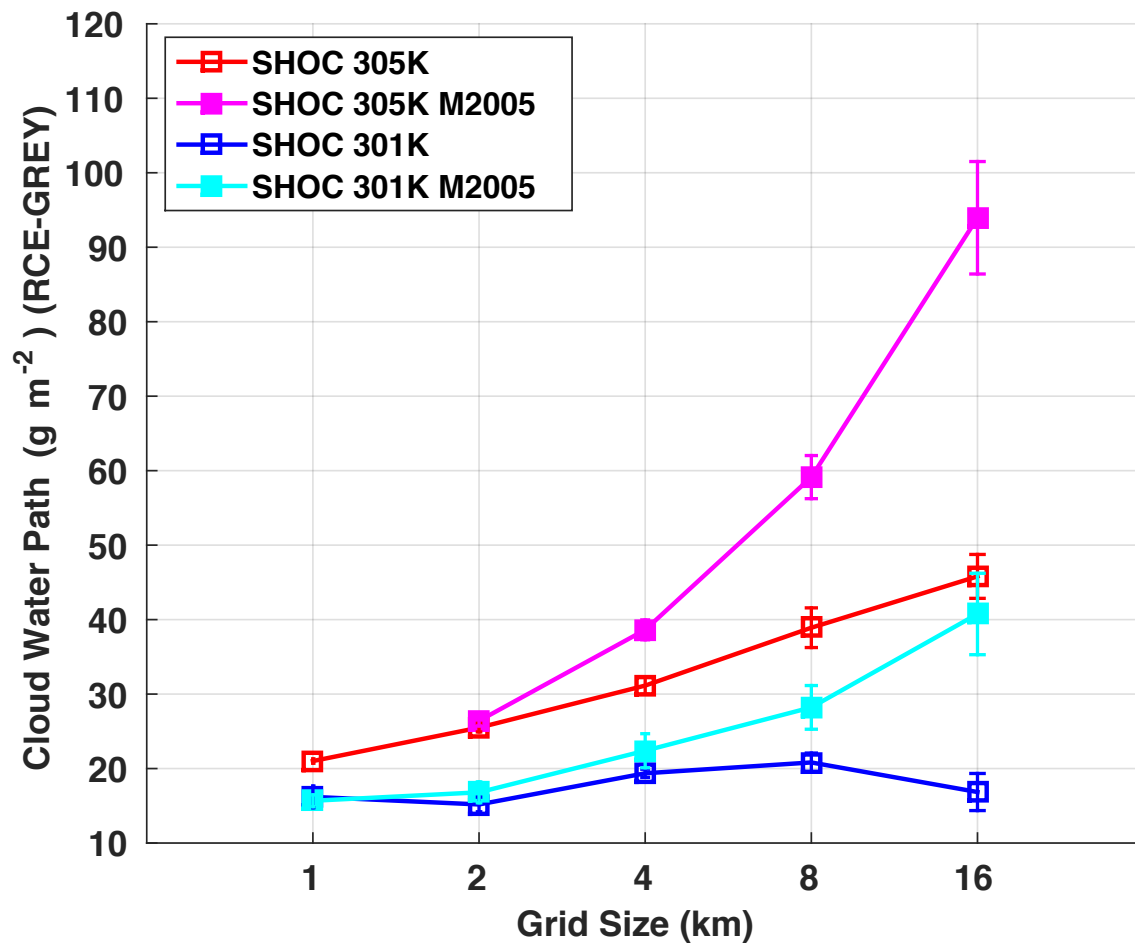
- NOSHOC results behave as expected.
- Some hints of resemblance in SHOC 301K (2-16km) and SHOC 305K (except 4km).

Precipitation



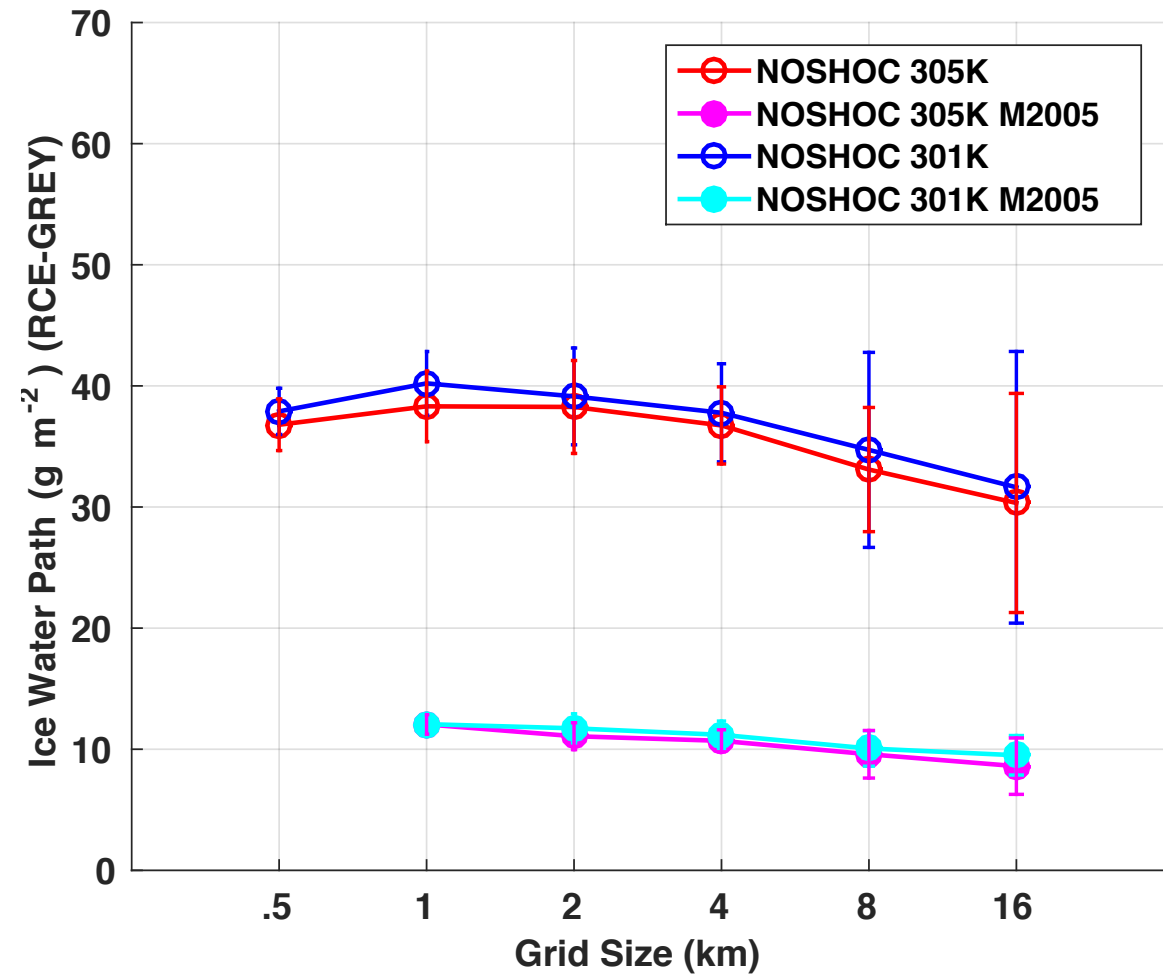
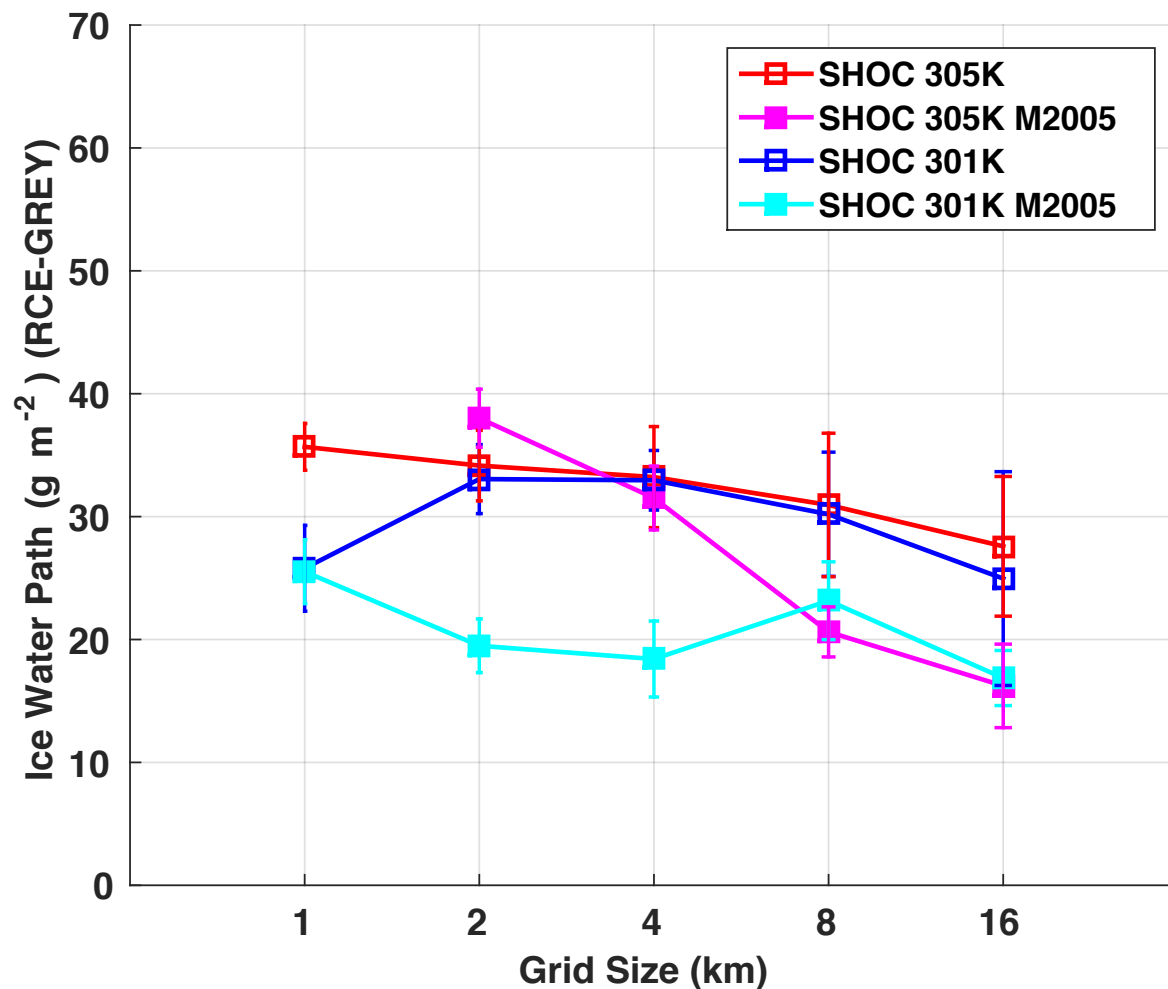
- 301K SHOC results have more precip with lower grid spacing, reverse for 305K SHOC.
- NOSHOC has similar trend for all runs.

CWP



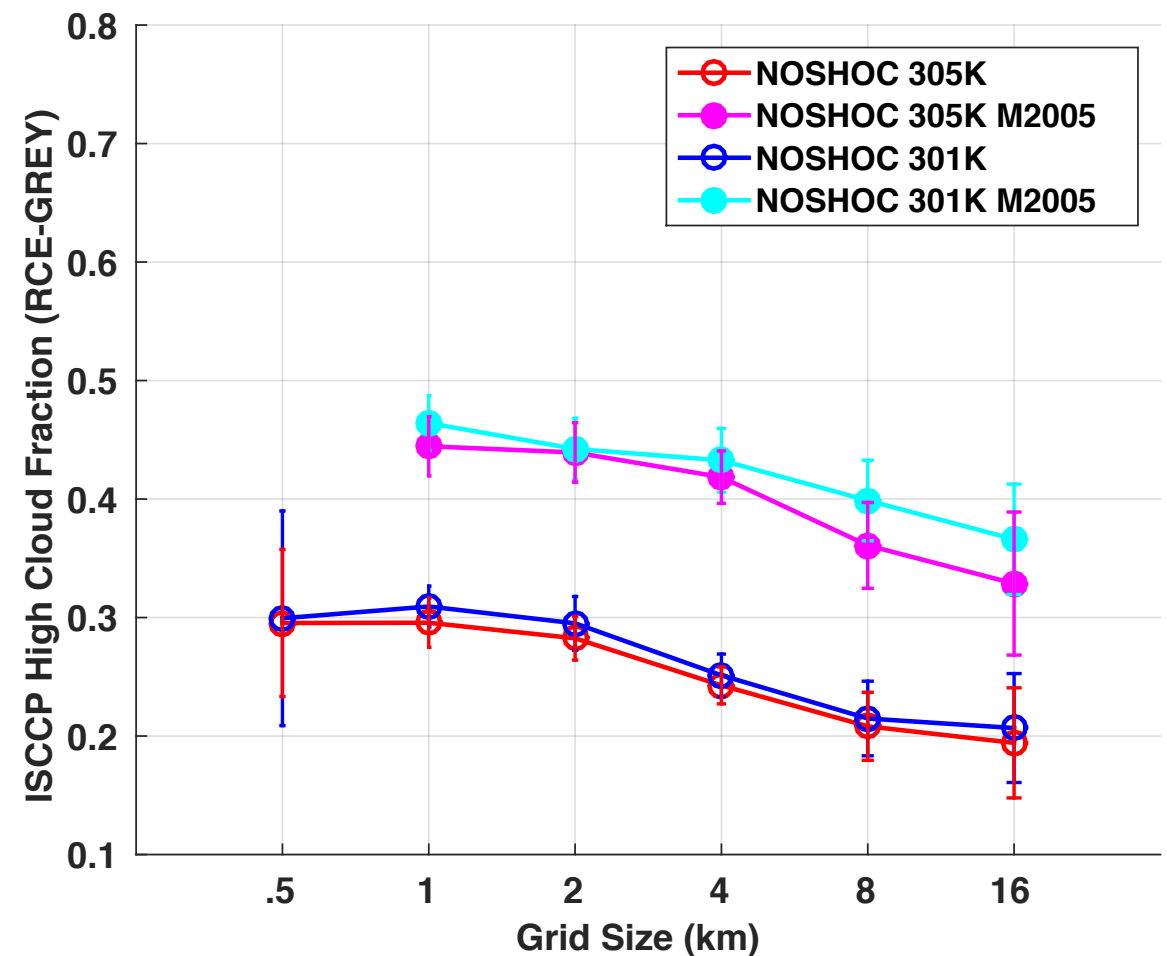
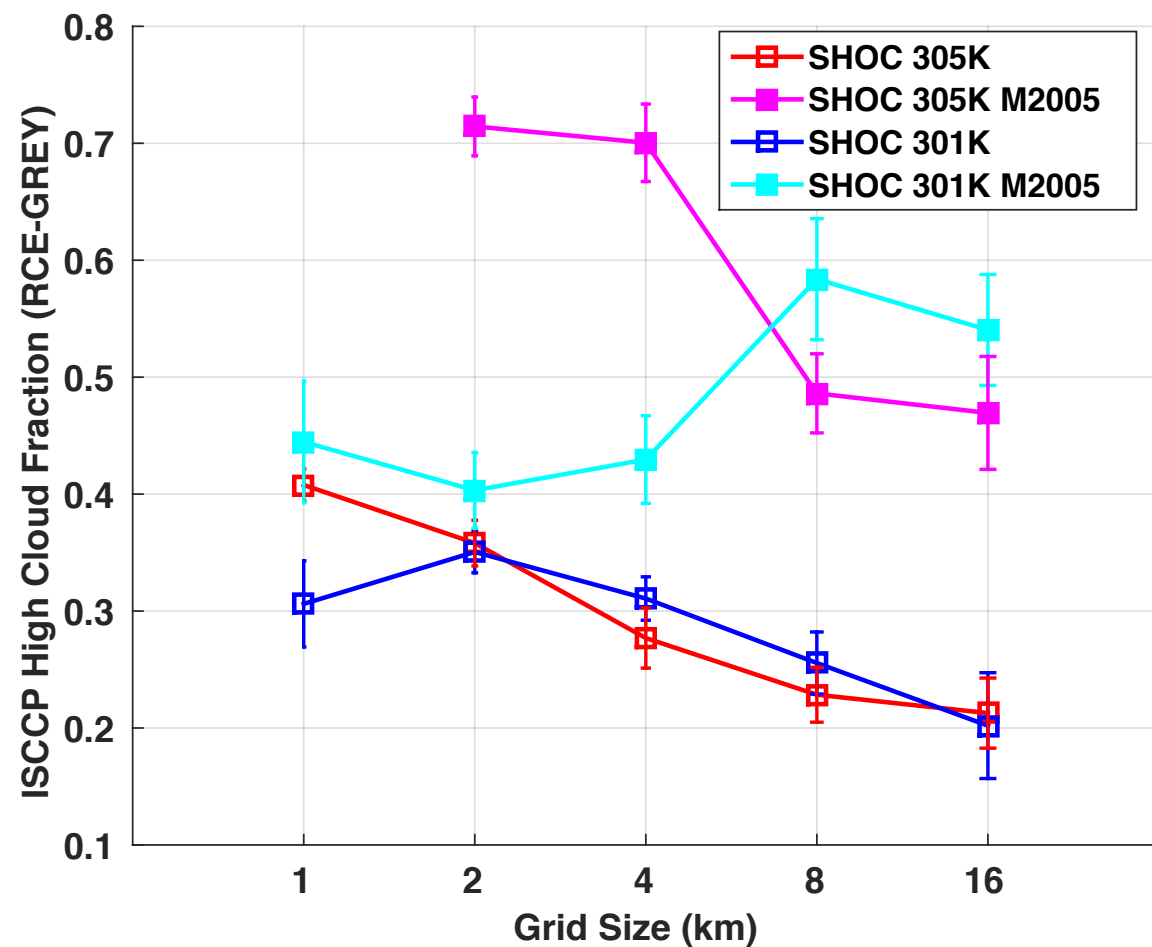
- SHOC has a less dramatic increase in CWP with lower grid resolution in most runs (especially for 301K runs with both single and double-moment).

IWP



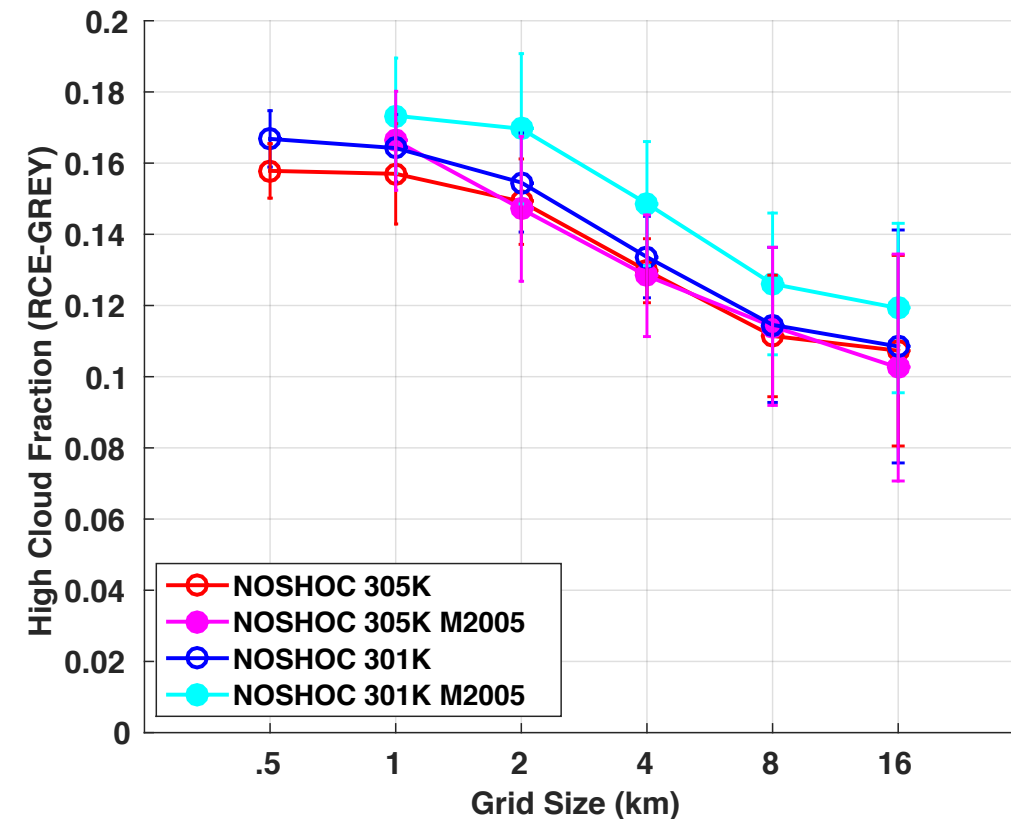
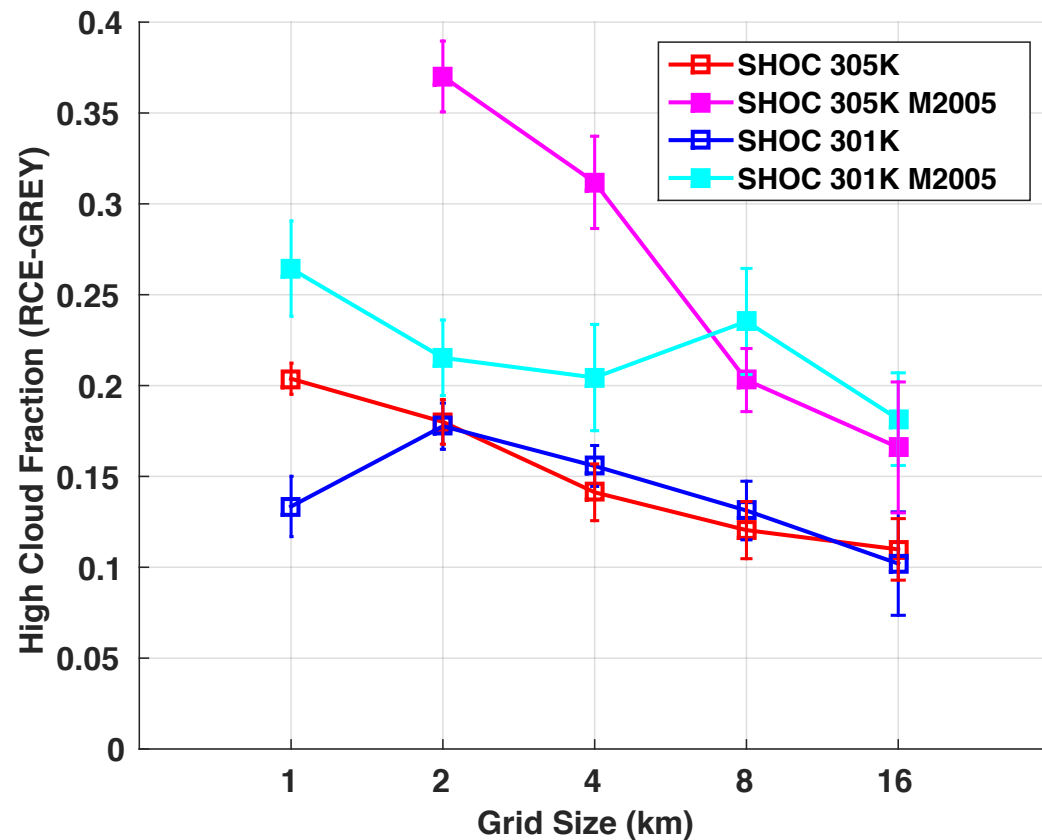
- Double-moment vs single-moment gap less influential in SHOC runs.
- Pattern with respect to grid spacing is much more consistent in NOSHOC runs.

ISCCP High Cloud



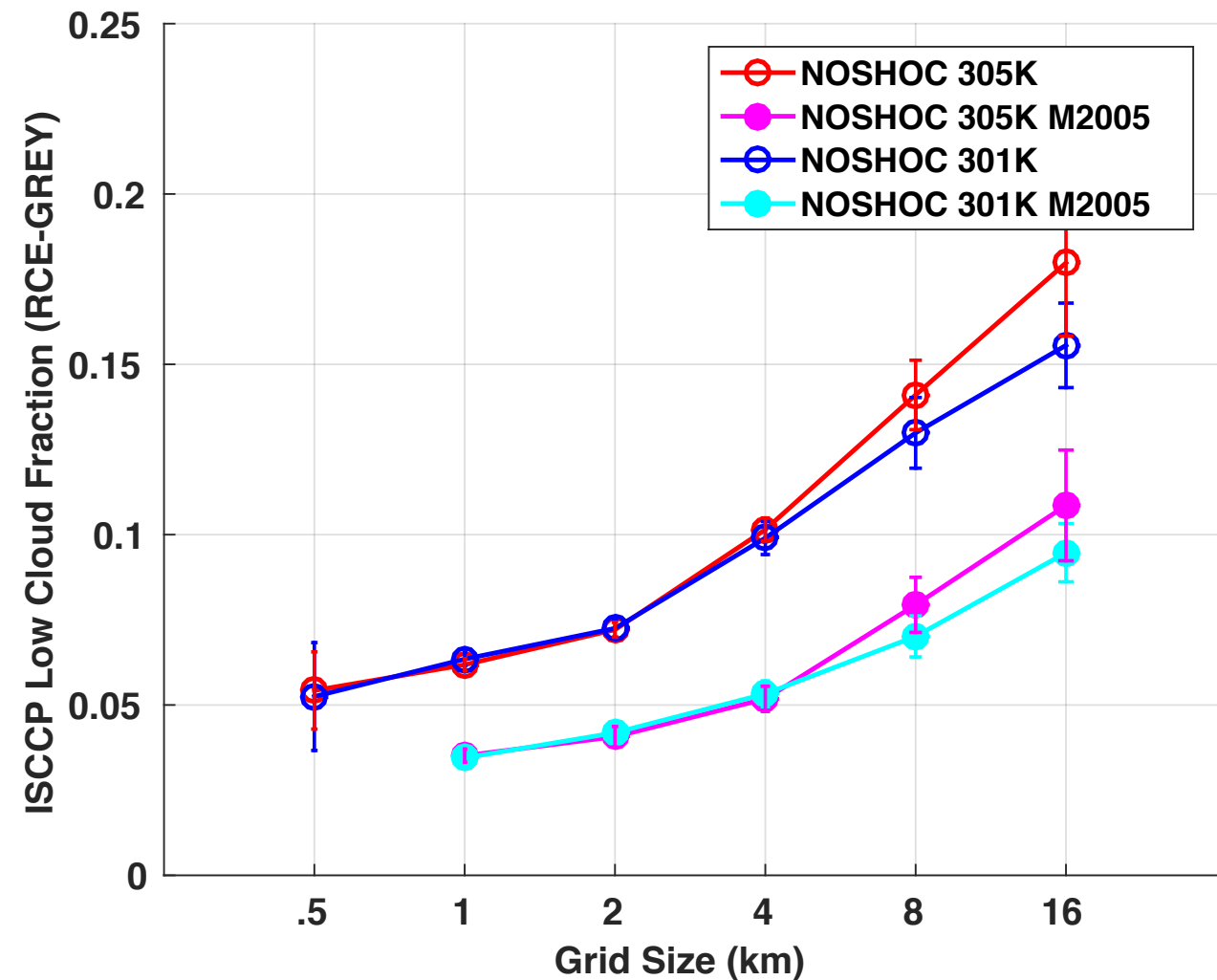
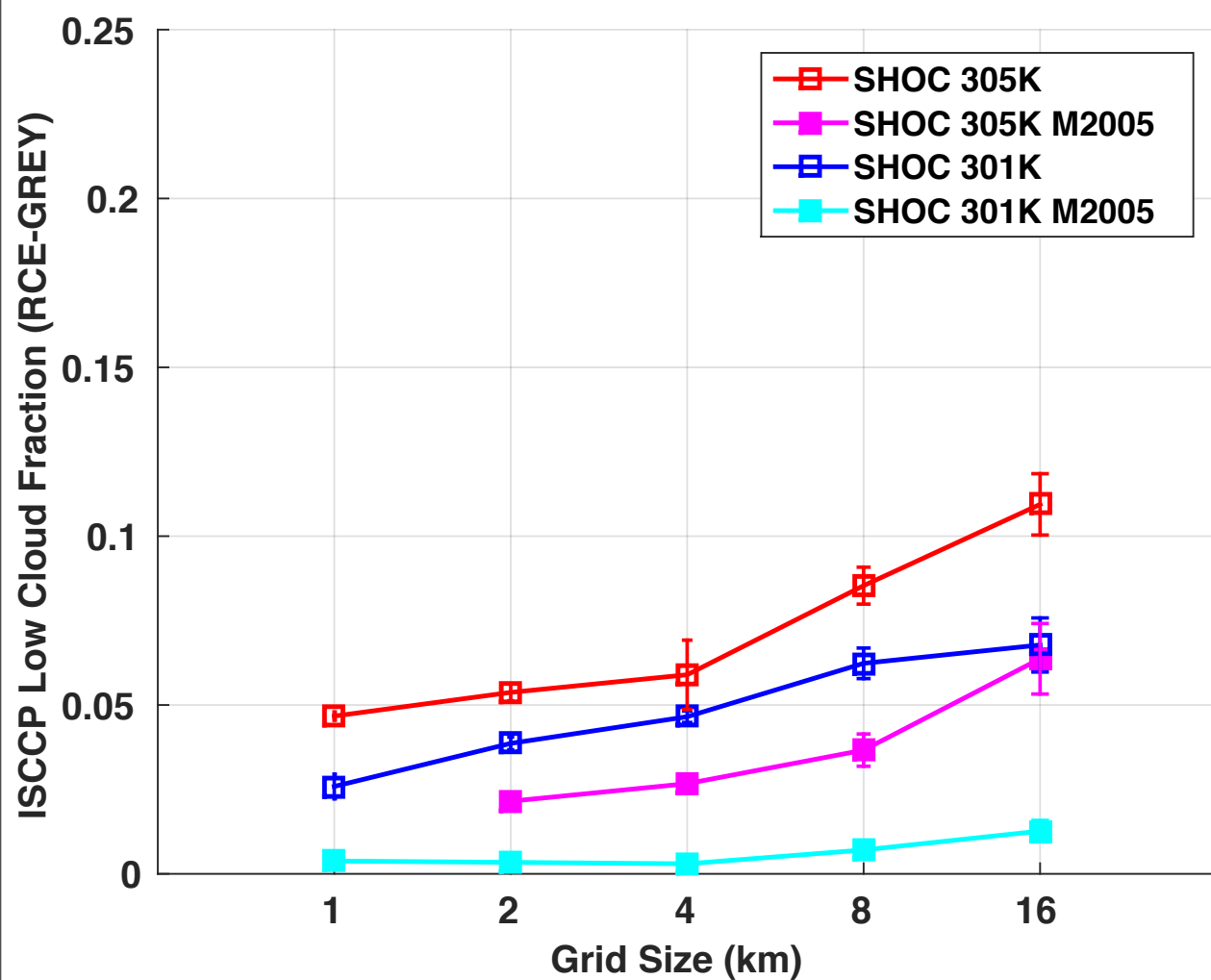
- SHOC double moment runs have perplexing results.
- SHOC has much higher values than NOSHOC.
- NOSHOC pattern consistent.

High Cloud (CLDHI)



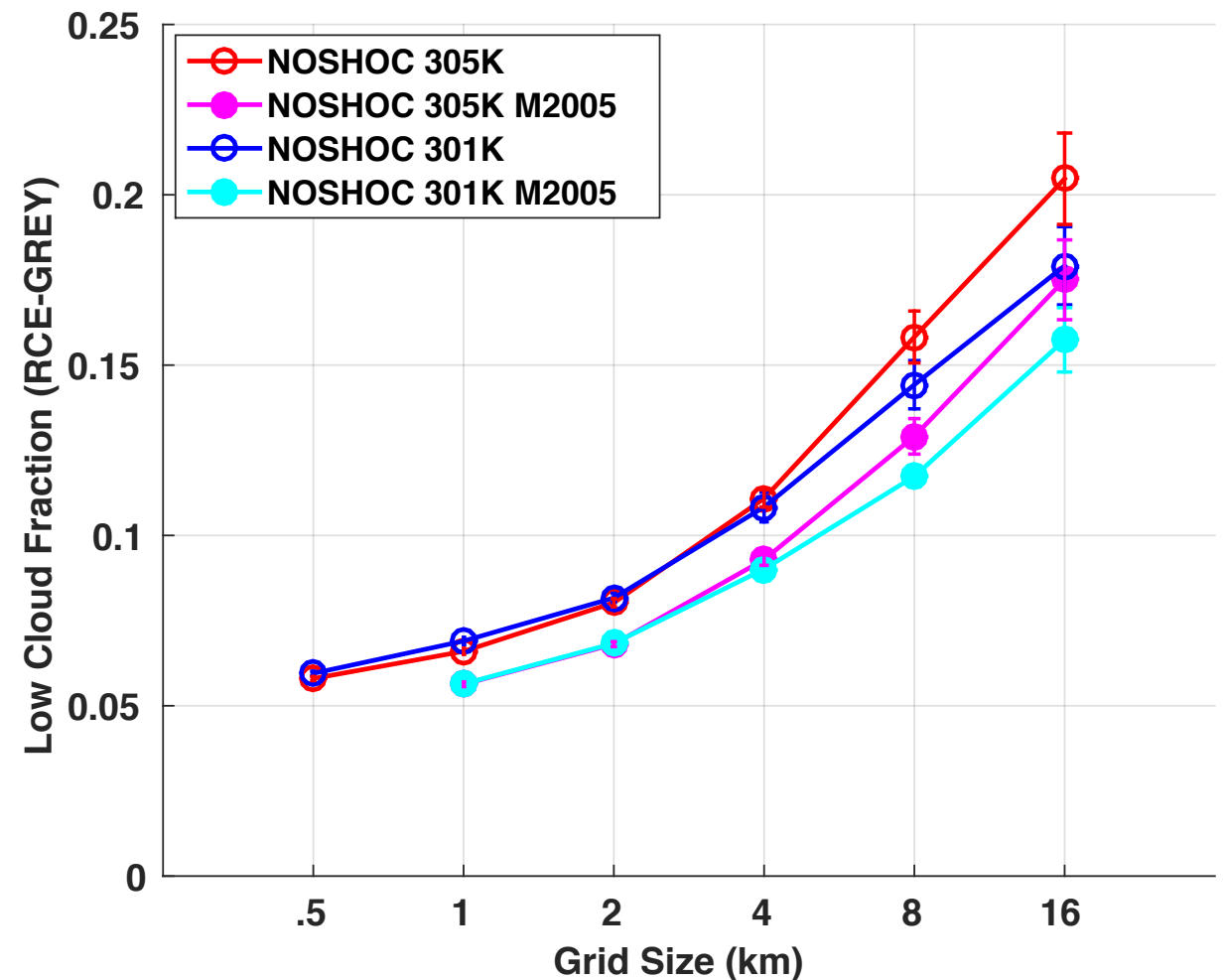
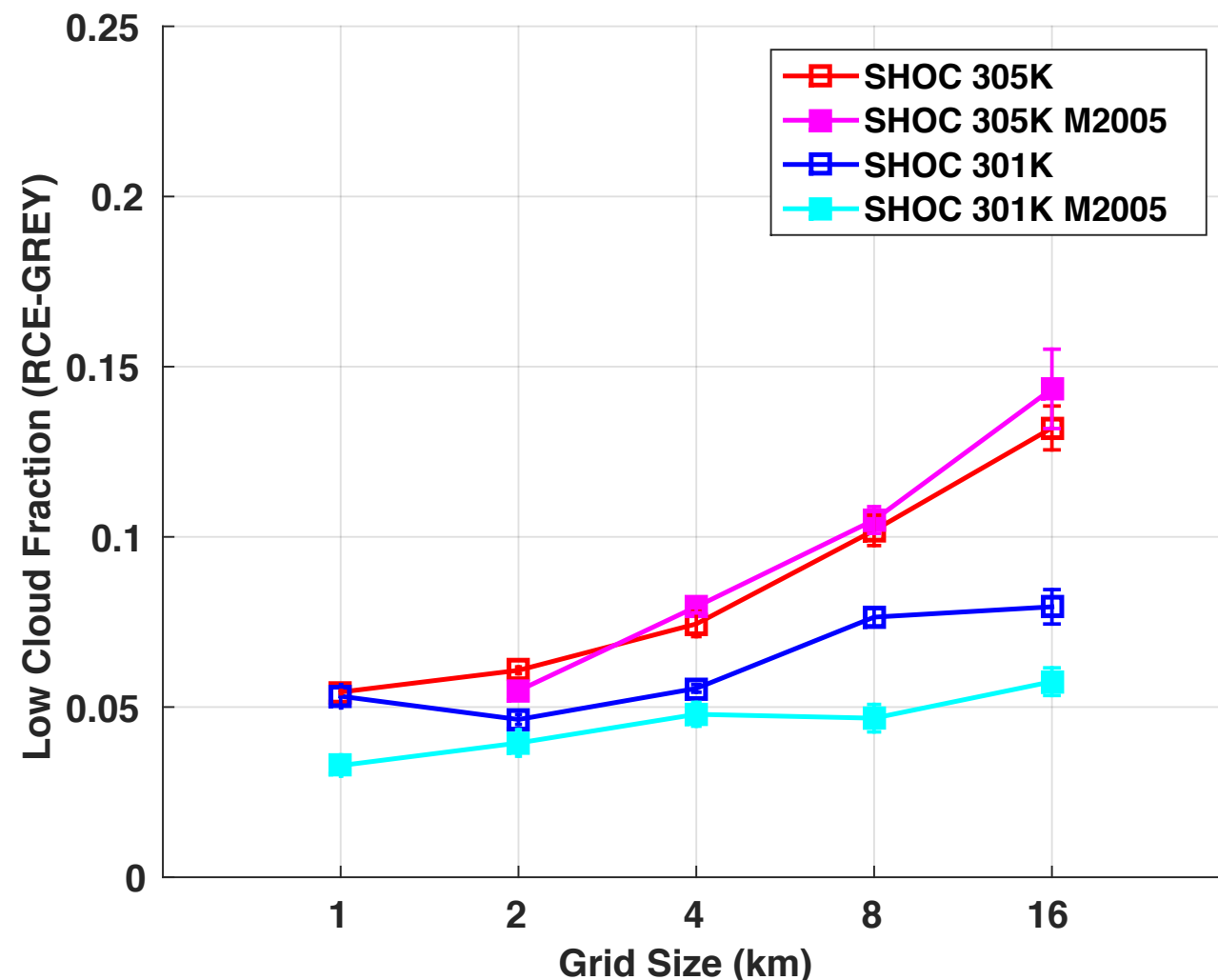
- Similar shape to ISCCPHGH.
- Magnitudes are only half as high for CLDHI as for ISCCPHGH.
- NOSHOC now has little separation between single and double moment.

ISCCP Low Cloud



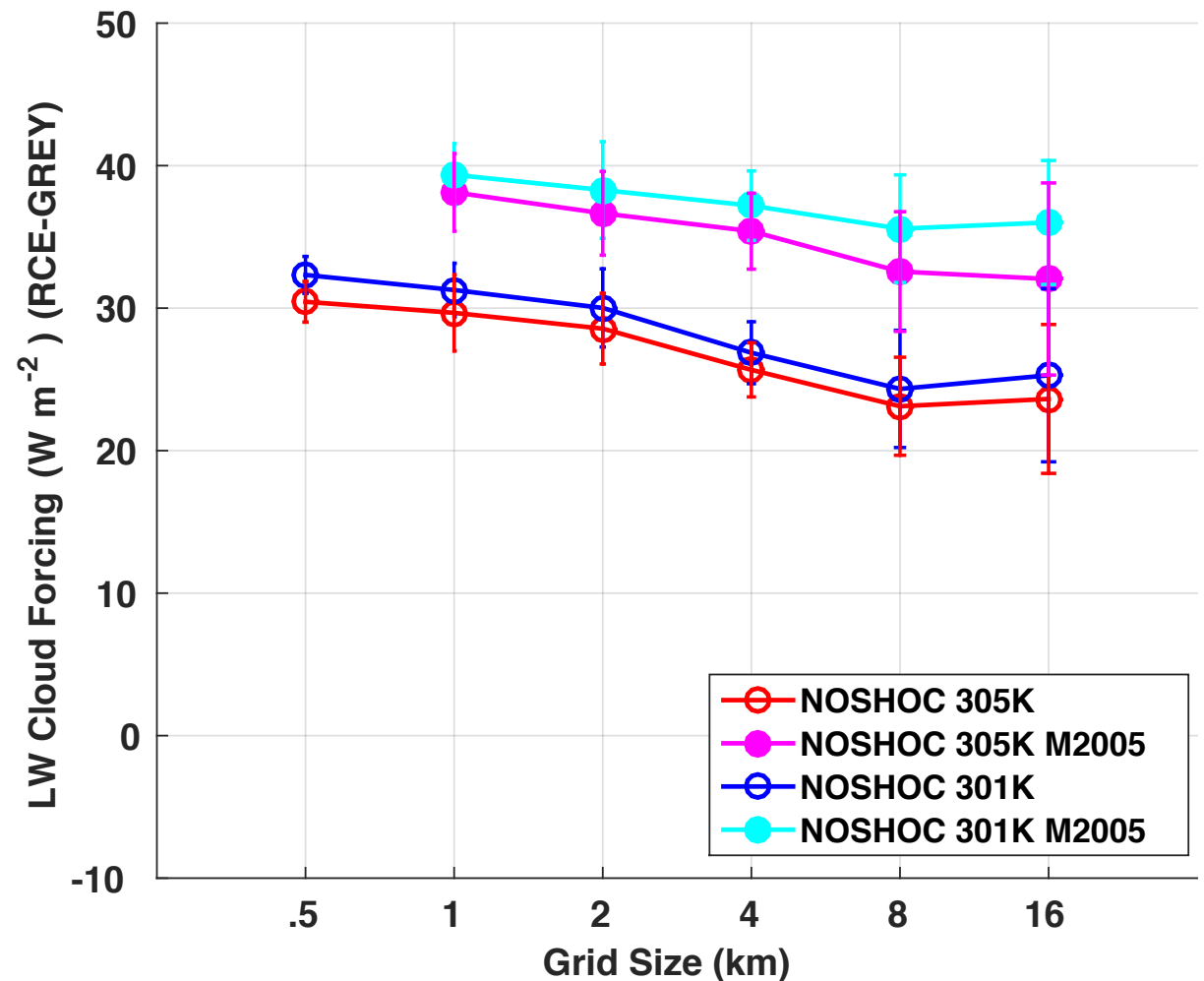
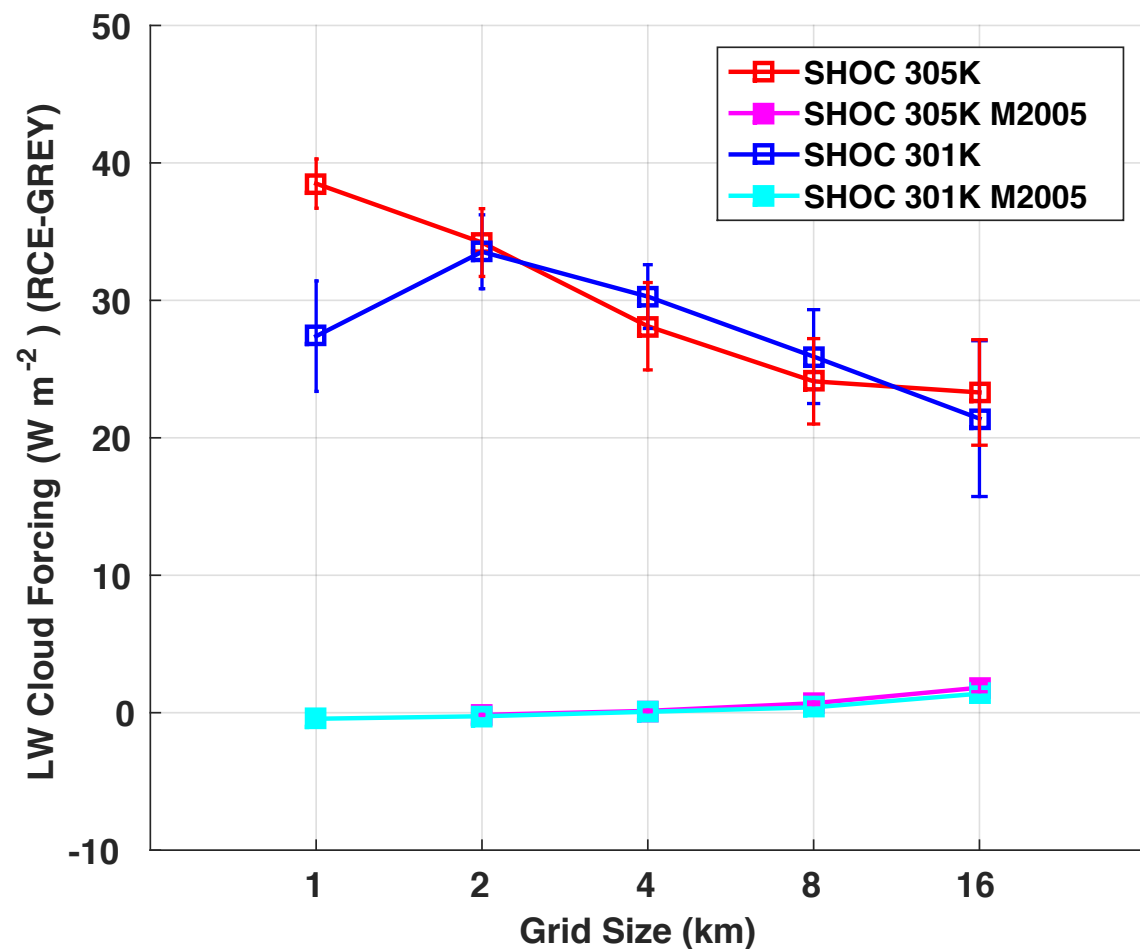
- Similar shape for SHOC and NOSHOC, values are higher for NOSHOC.

Low Cloud (CLDLLOW)



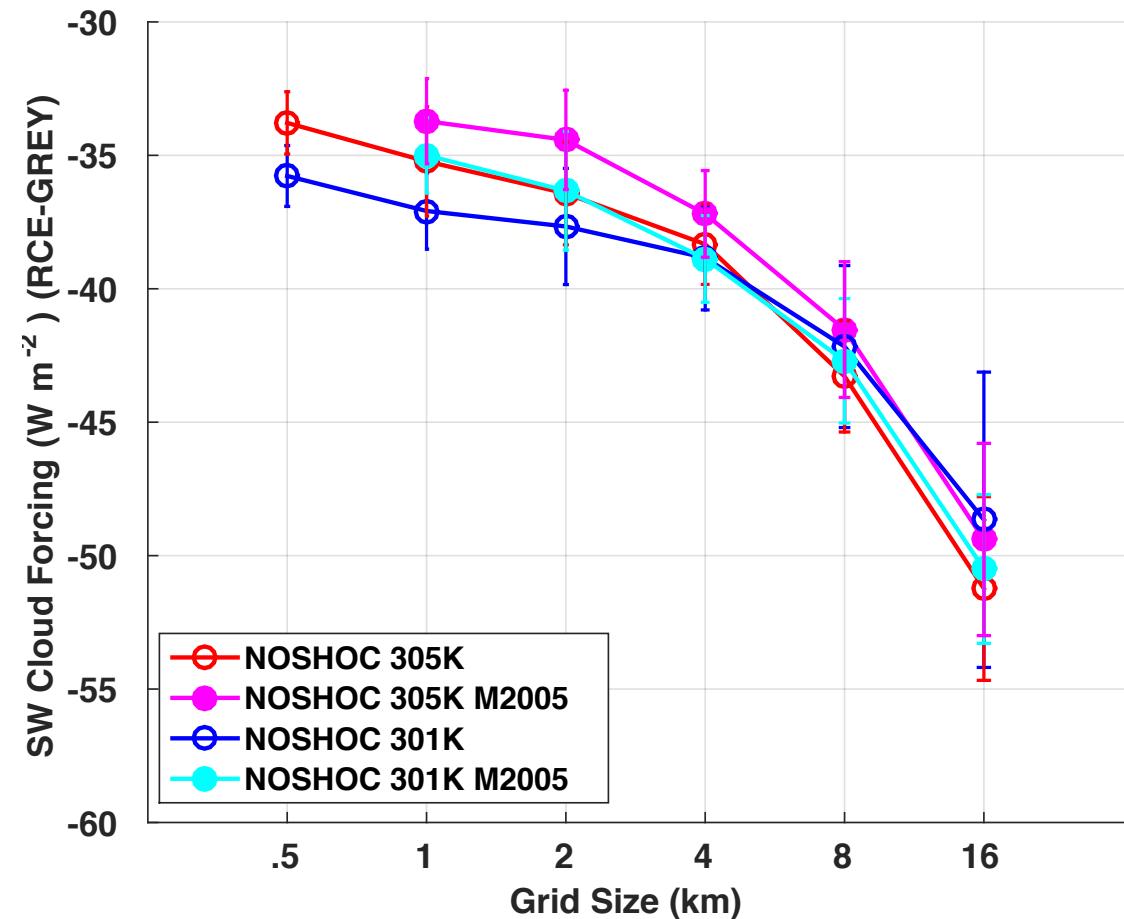
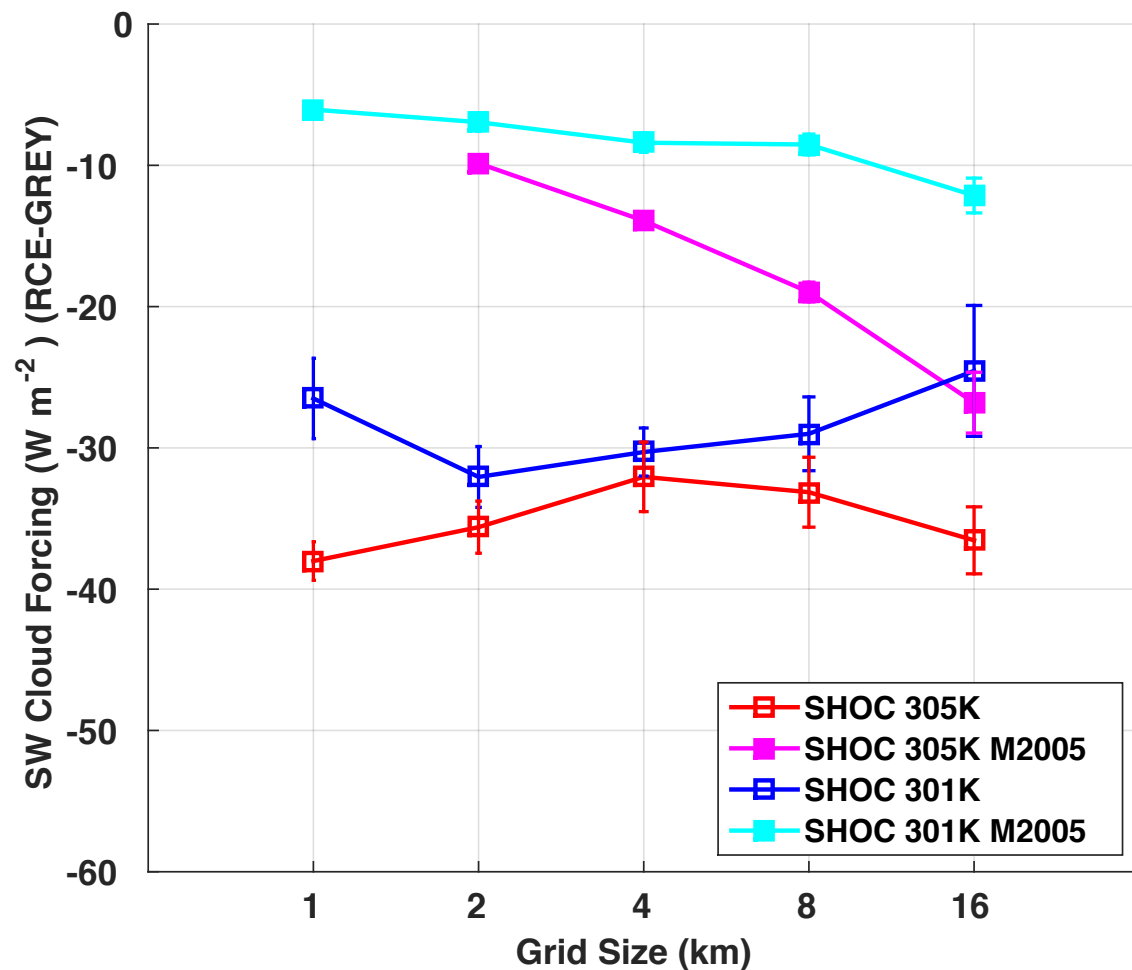
- Similar pattern and magnitude to ISCCP low cloud.
- Less separation between single and double moment for NOSHOC than in ISCCP low cloud.

LW Cloud Forcing



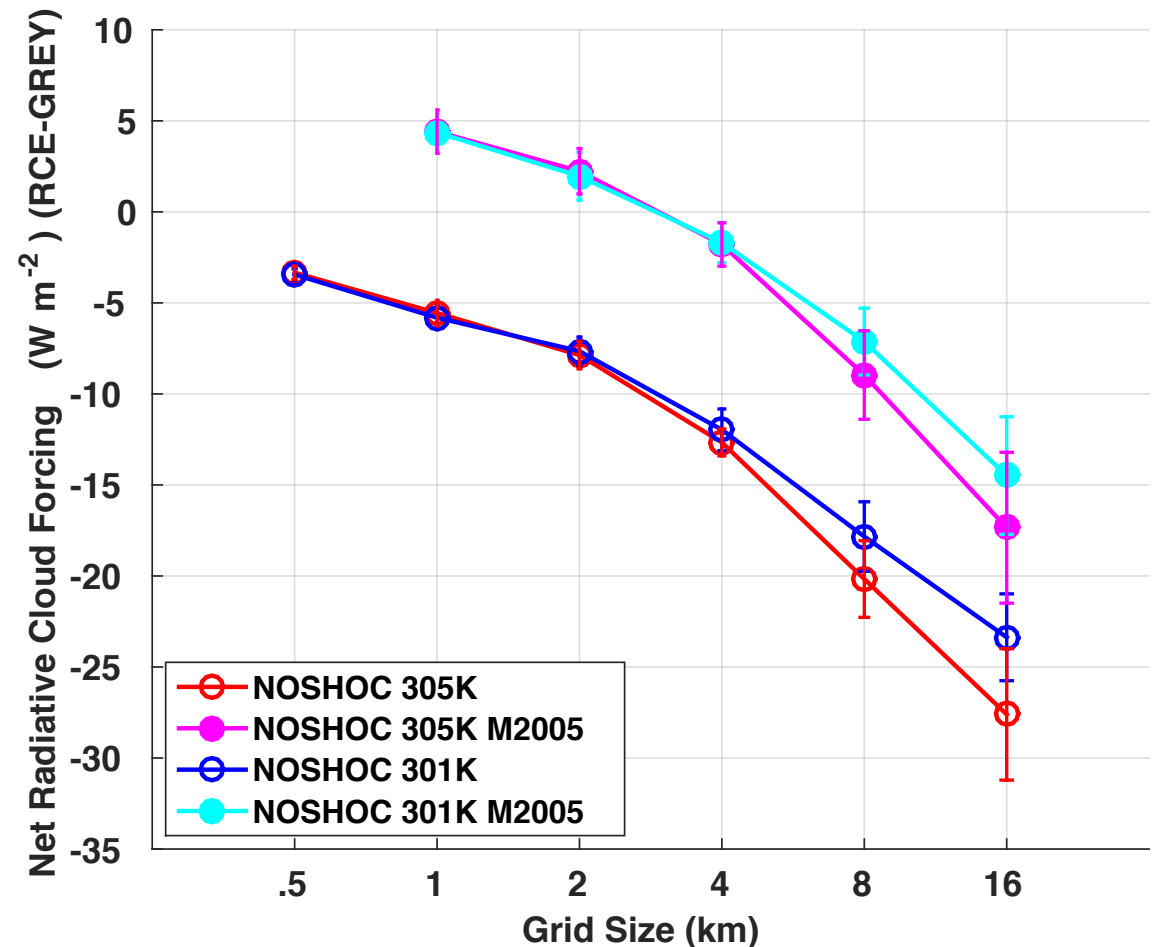
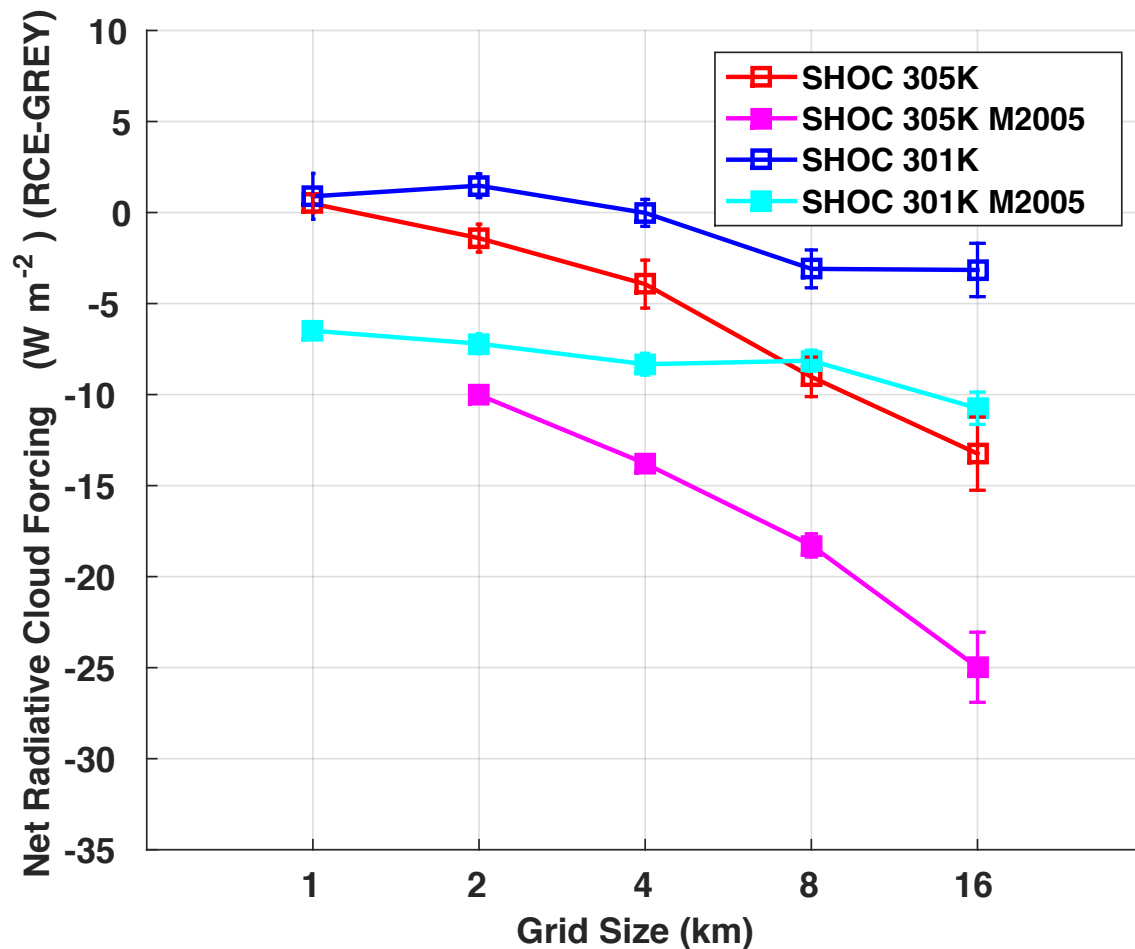
- NOSHOC has similar patterns for all.
- SHOC has a large gap between single moment and double moment.

SW Cloud Forcing



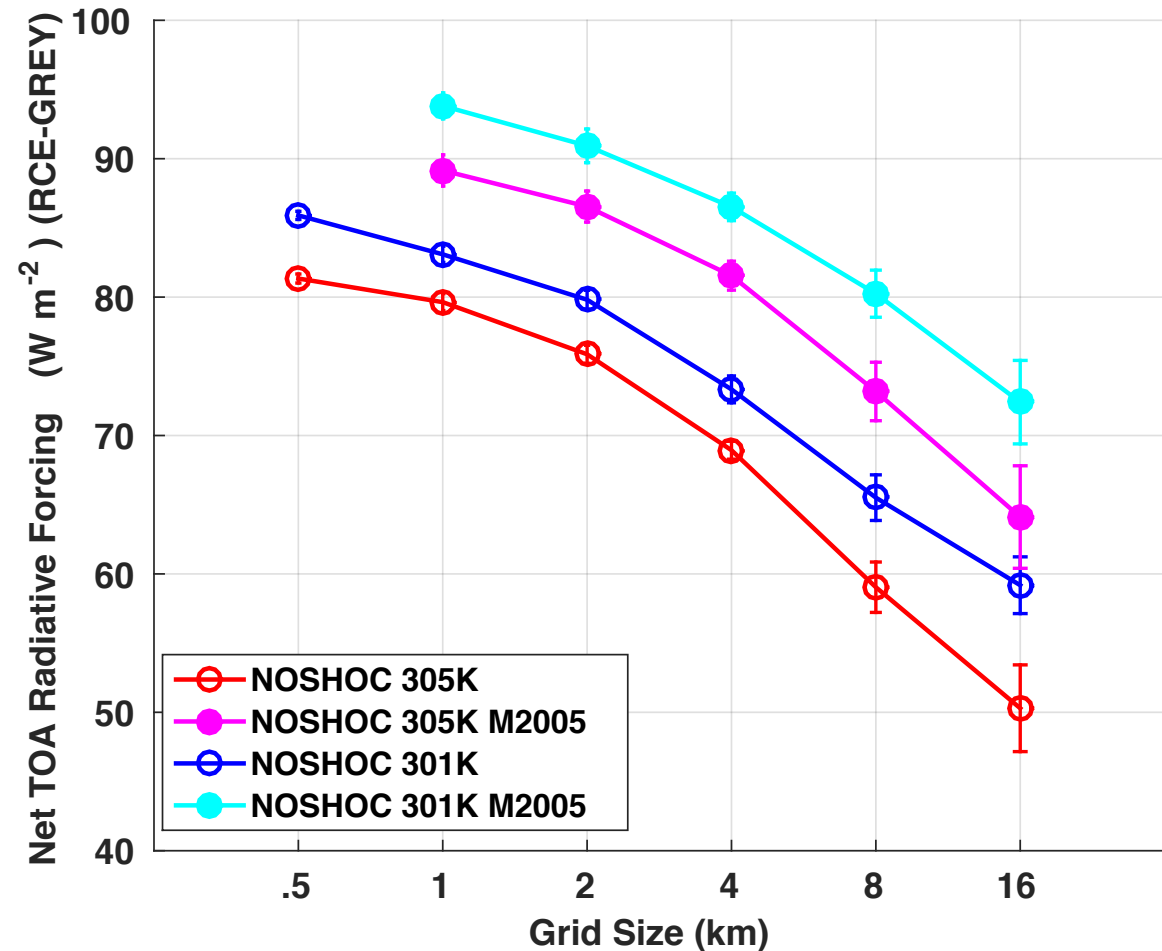
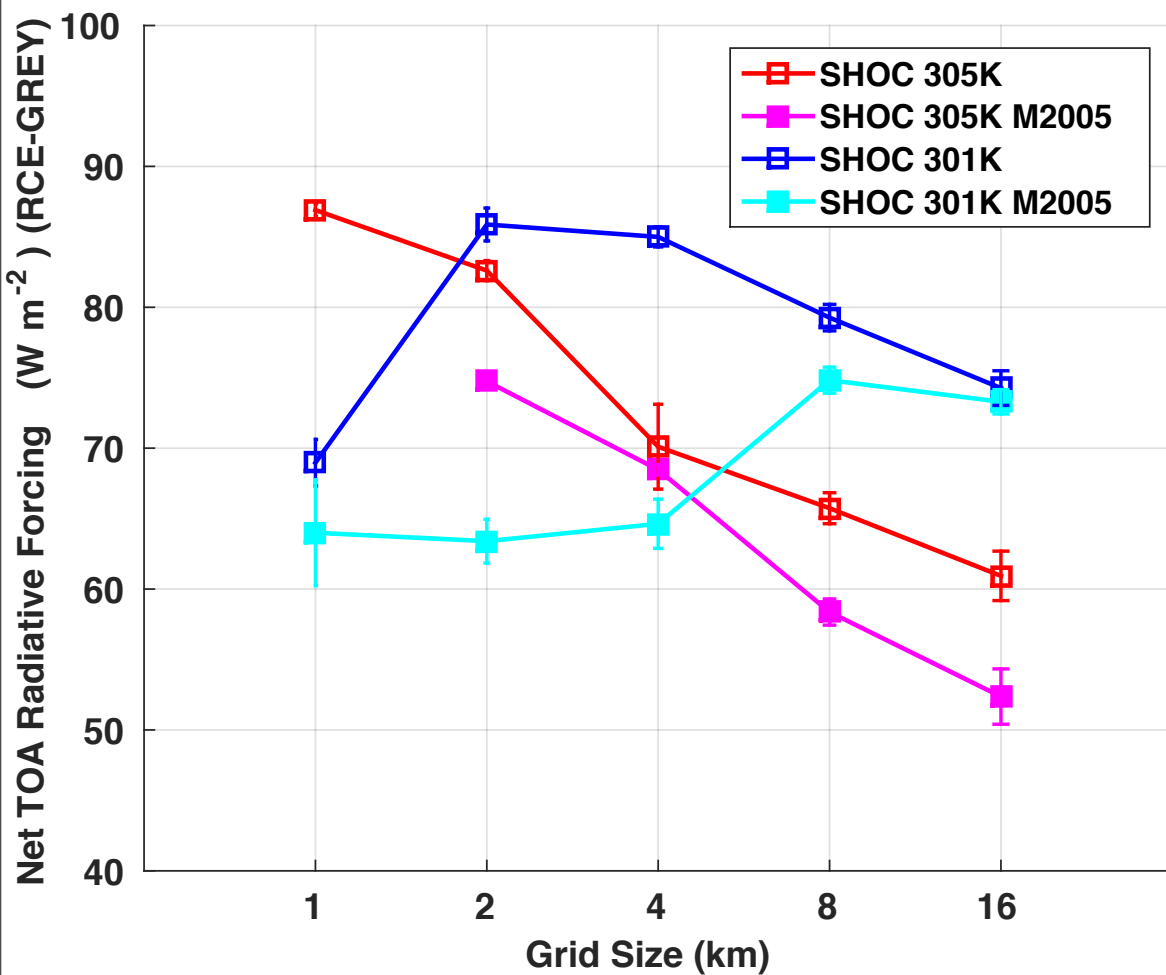
- SHOC generally stays around same magnitude for each run except 305K double-moment
- NOSHOC gets more negative with courser resolution.

Net Radiative Cld Forcing



- SHOC and NOSHOC reverse order of single-moment and double moment runs.
- 301K SHOC runs flatter with respect to grid spacing than other 6 runs.

Net TOA Radiation



- Vague resemblance of SHOC 305K runs to the more organized NOSHOC runs.
- For SHOC the single-moment runs are higher, for NOSHOC double-moment runs are.