

Representation of Tropical Cyclone Precipitation in Global Reanalysis Datasets Evan Jones, Allison A. Wing, Rhys Parfitt

ISSI

- Across 8 reanalyses: Similar spatial patterns of F<sub>TC</sub>
- Notable magnitude differences
- Dependent on number of storms, model parameterizations



- Less consistency of TC precipitation than total precipitation across reanalyses
- TC precipitation inconsistencies imprint on total precipitation in reanalyses



Inter – reanalysis spread of total precipitation

TC tracks from TempestExtremes (Zarzycki et al., 2021) Results show the need for improvement of TC precipitation in reanalyses

Choice of reanalysis dataset matters for studies of total precipitation

Look for this work to soon be published in The Journal of Climate! \*NOAA MAPP NA18OAR4310270 \*NSF OCE 2023585 Jones, E., Wing, A. A., & Parfitt, R. (2021). A Global Perspective of Tropical Cyclone Precipitation in Reanalyses. *J. Climate,* under review.