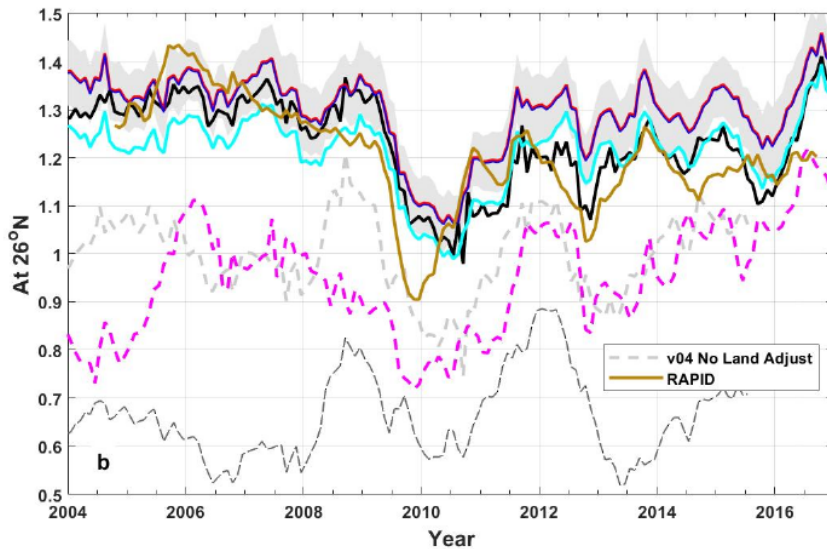
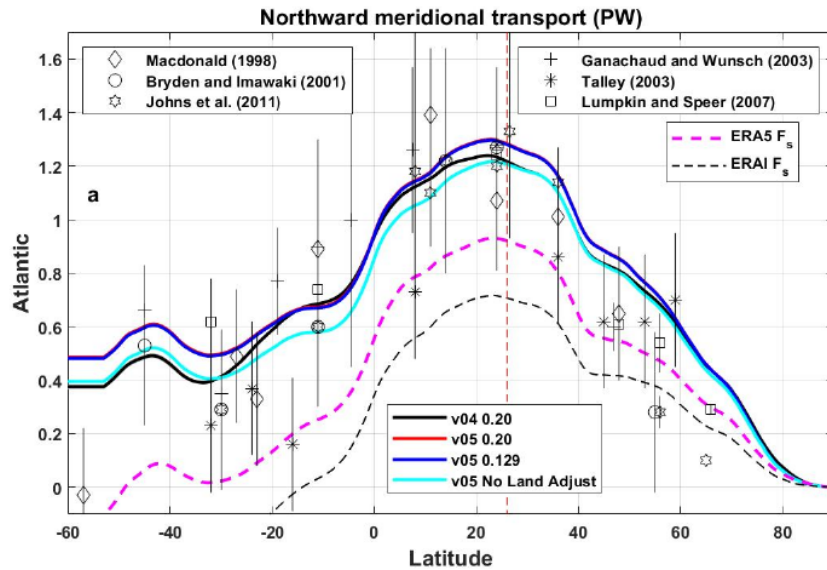
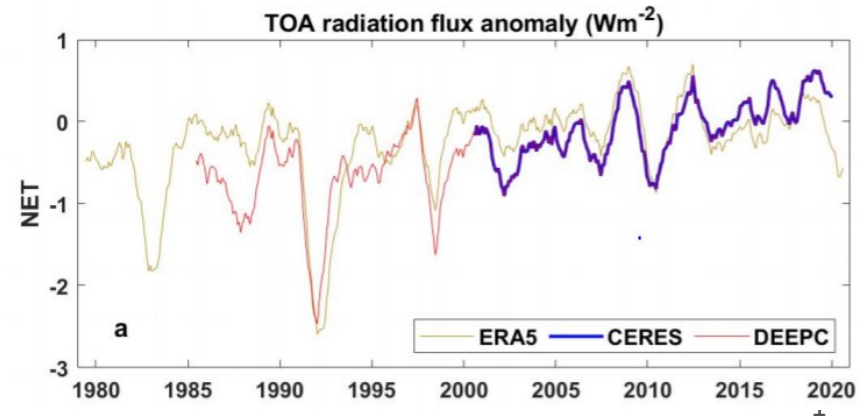


UPDATES TO DEEP-C DATASET



- Update of TOA radiation dataset to 2020, CERES v4.1 (v5 - Chunlei Liu)
- Updated surface flux to account for enthalpy using ERA5 (+Univ. Vienna)
- Improved land heat flux
- ← Updated ocean heat transports (left)
- Continued wider use of dataset (Met Office, ETH, Libera science team)
- Tackles major science question: how is energy budget driving/responding to climate change (input to IPCC)
- +water cycle [Allan et al. \(2020\) NYAS](#)



Update to [Liu et al. \(2020\)](#)

ADDITIONAL WORK & FUTURE PLANS

- Final version of DEEP-C energy budget product & link with energy budget closure
- Evaluation of precipitation diurnal cycle in CMIP6 simulations ([Watters et al. 2021](#)) →
- Updates in global precipitation as part of NERC project Rain from Space (Illingworth)
- Evaluation of water vapour changes in CMIP6 simulations (GCOS, Met Office, EUMETSAT) e.g. can we represent water vapour amplifying climate feedback →

