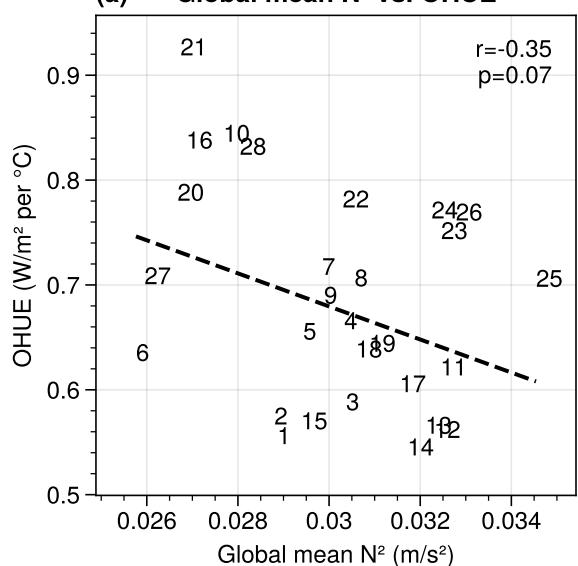
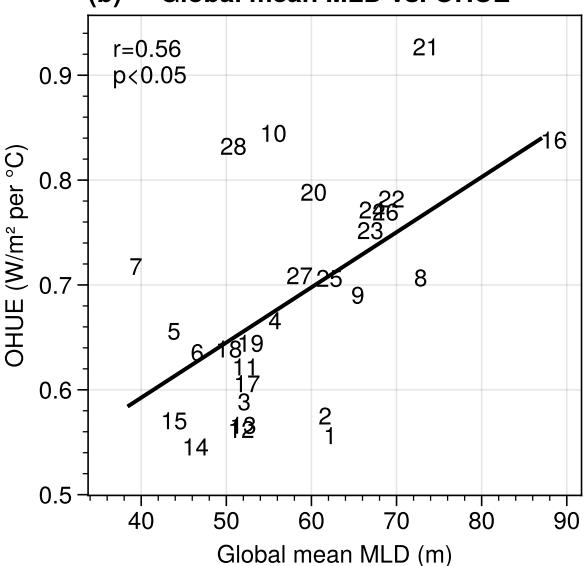
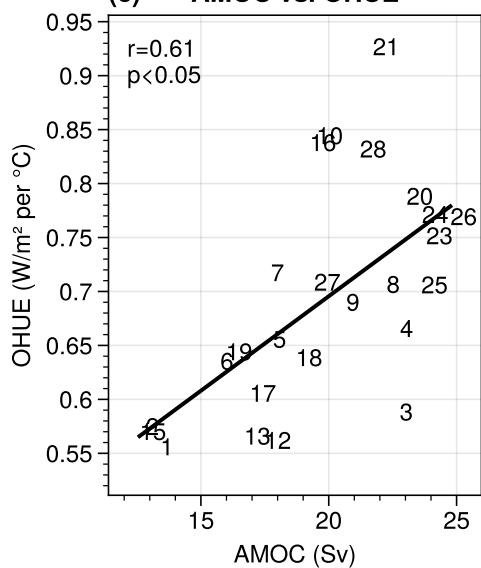
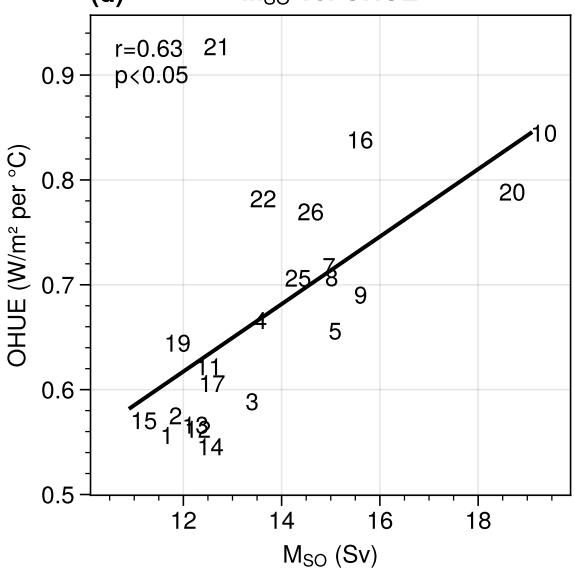
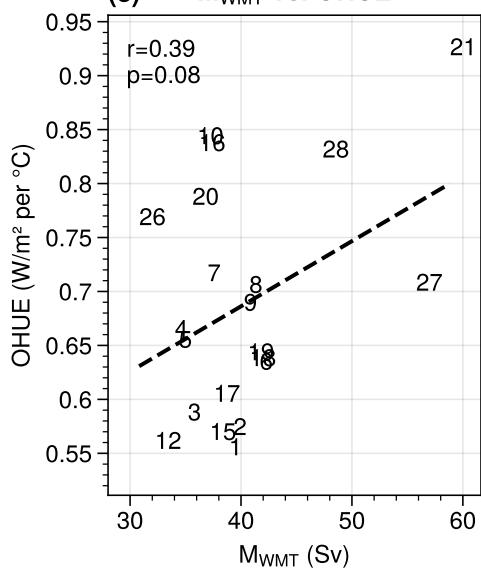


**(a) Global mean  $N^2$  vs. OHUE****(b) Global mean MLD vs. OHUE****(c) AMOC vs. OHUE****(d)  $M_{SO}$  vs. OHUE****(e)  $M_{WMT}$  vs. OHUE**

CMIP6 models

- |                   |                      |                     |
|-------------------|----------------------|---------------------|
| 1: CanESM5        | 2: CanESM5-CanOE     | 3: CMCC-CM2-SR5     |
| 4: CMCC-ESM2      | 5: CNRM-CM6-1        | 6: CNRM-CM6-1-HR    |
| 7: CNRM-ESM2-1    | 8: ACCESS-ESM1-5     | 9: ACCESS-CM2       |
| 10: MPI-ESM1-2-HR | 11: EC-Earth3        | 12: EC-Earth3-CC    |
| 13: EC-Earth3-Veg | 14: EC-Earth3-Veg-LR | 15: IPSL-CM6A-LR    |
| 16: MIROC6        | 17: HadGEM3-GC31-LL  | 18: HadGEM3-GC31-MM |
| 19: UKESM1-0-LL   | 20: MPI-ESM1-2-LR    | 21: MRI-ESM2-0      |
| 22: GISS-E2-1-G   | 23: CESM2            | 24: CESM2-WACCM     |
| 25: NorESM2-LM    | 26: NorESM2-MM       | 27: GFDL-ESM4       |
| 28: GFDL-ESM4     |                      |                     |