(a) EXPERIMENT SIMPLESALCONST
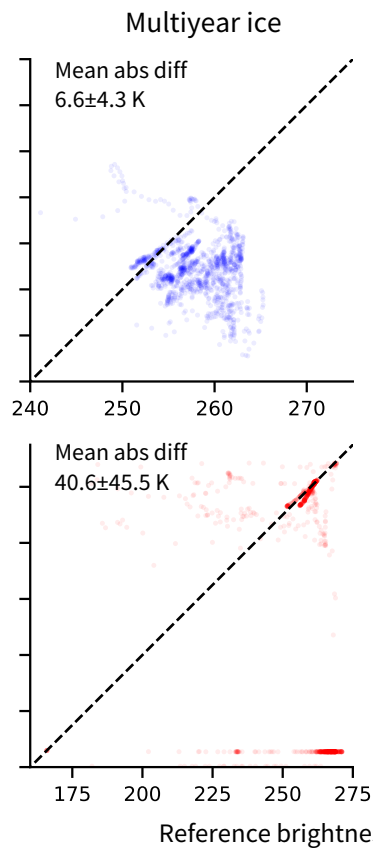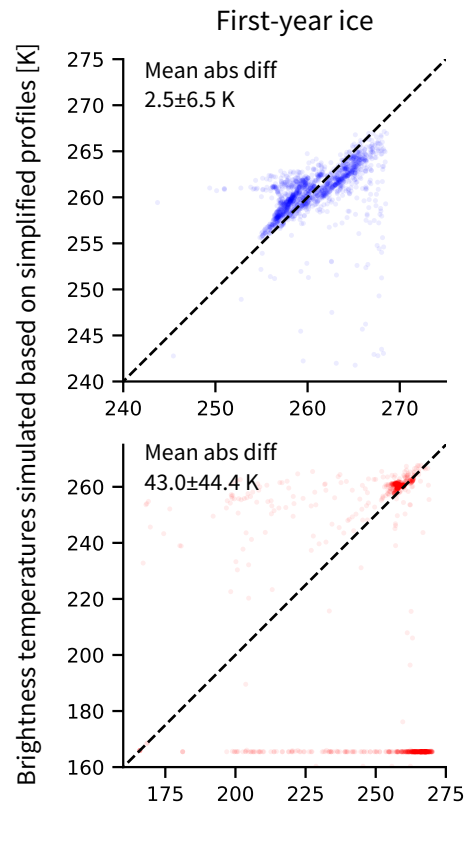- reference temperature profile
- constant salinity profile

(b) EXPERIMENT SIMPLESALFUNC
- reference temperature profile
- salinity profile as a function of depth

First-year ice | Multiyear ice | First-year ice | Multiyear ice

Mean abs diff 2.5±6.5 K
Mean abs diff 6.6±4.3 K
Mean abs diff 2.4±5.9 K
Mean abs diff 2.3±2.6 K

Cold conditions

Mean abs diff 43.0±44.4 K
Mean abs diff 40.6±45.5 K
Mean abs diff 43.0±44.1 K
Mean abs diff 28.7±36.5 K

Warm conditions

Brightness temperatures simulated based on simplified profiles [K]

Reference brightness temperatures [K]