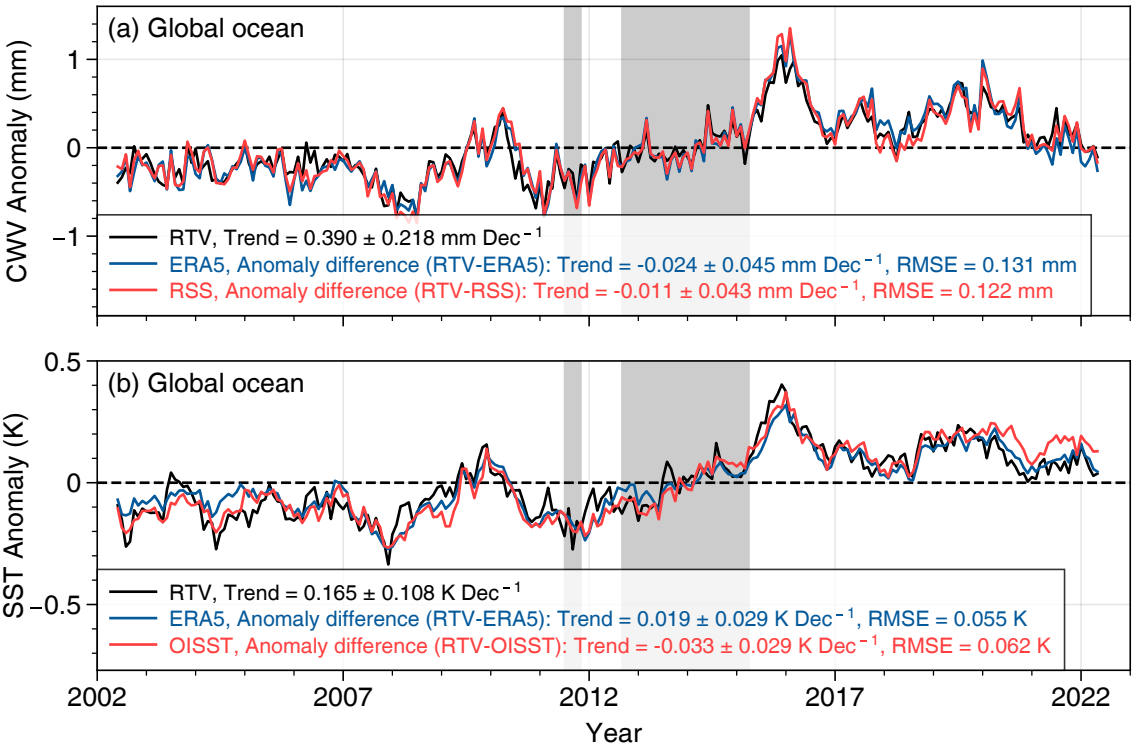
(a) Global ocean
CWV Anomaly (mm)
1
0
−1
RTV, Trend = 0.390 ± 0.218 mm Dec$^{-1}$
ERA5, Anomaly difference (RTV-ERA5): Trend = -0.024 ± 0.045 mm Dec$^{-1}$, RMSE = 0.131 mm
RSS, Anomaly difference (RTV-RSS): Trend = -0.011 ± 0.043 mm Dec$^{-1}$, RMSE = 0.122 mm
(b) Global ocean
SST Anomaly (K)
0.5
0
−0.5
RTV, Trend = 0.165 ± 0.108 K Dec$^{-1}$
ERA5, Anomaly difference (RTV-ERA5): Trend = 0.019 ± 0.029 K Dec$^{-1}$, RMSE = 0.055 K
OISST, Anomaly difference (RTV-OISST): Trend = -0.033 ± 0.029 K Dec$^{-1}$, RMSE = 0.062 K
2002
2007
2012
2017
2022
Year