

Folder	Parameter	Temporal coverage	Data records
Specific_humidity	Specific humidity at four levels, in $\text{g kg}^{-1}$	January 1988–December 2009	CFSR, ERA-20C, ERA-Interim, JRA-55, MERRA, MERRA-2, nnHIRS
Temperature	Temperature at four levels, in K	January 1988–December 2009	CFSR, ERA-20C, ERA-Interim, JRA-55, MERRA, MERRA-2, nnHIRS
TCWV/long	Total column water vapour, in $\text{kg m}^{-2}$	January 1988–December 2008	CFSR, ERA-20C, ERA-Interim, HOAPS, JRA-55, MERRA, MERRA-2, nnHIRS, Merged Microwave REMSS, NVAP-M Climate, NVAP-M Ocean
TCWV/short	Total column water vapour, in $\text{kg m}^{-2}$	January 2003–December 2008	AIRWAVE, AMSR-E JAXA, AMSR-E REMSS, ATOVS CM SAF, CFSR, EMiR, ERA-20C, ERA-Interim, GOME/SCIAMACHY/GOME-2 GlobVapour, HIRS UWisc, HOAPS, JRA-55, Merged Microwave REMSS, MERIS GlobVapour, MERRA, MERRA-2, MYD08_M3, nnHIRS, NVAP-M Climate, NVAP-M Ocean, SSM/I + MERIS GlobVapour, TMI REMSS