

Proxy	Source	Characteristics	Time window
HF	NASA's Goddard Space Flight Center https://acd-ext.gsfc.nasa.gov/Data_services/met/ann_data.html (last access: 27 May 2018)	45-day mean heat flux between 45 and 75° S at 70 hPa from MERRA 2	Aug–Sept
SF	Dominion Radio Astrophysical Observatory (National Research Council Canada) ftp://ftp.geolab.nrcan.gc.ca/data/solar_flux/monthly_averages/solflux_monthly_average.txt (last access: 27 May 2018)	Monthly averages of solar flux at 10.7 cm wavelength	Sep
QBO	Institute of Meteorology (Freie Universität Berlin) http://www.geo.fu-berlin.de/en/met/ag/strat/produkte/qbo (last access: 27 May 2018)	Monthly mean quasi-biennial oscillation at 30 and 10 hPa	Sep
Aer	1980–1990: NASA's Goddard Space Flight Center https://data.giss.nasa.gov/modelforce/strataer/ (last access: 27 May 2018) Jan 1991–Apr 2017 composite data series	AOD at 550nm; 15–30 km; 40–65° S zonal mean AOD at 532nm merged satellite time series of SAGE II, OSIRIS, CALIOP and OMPS following method described in Khaykin et al. (2017) 15–30 km; 40–65° S zonal mean	Apr
AAO	NOAA's National Weather Service ftp://ftp.cpc.ncep.noaa.gov/cwlinks/ (last access: 27 May 2018)	Daily AAO index	Same as O ₃
GRAD		Daily maximum of PV slope at 550 K computed from ERA-Interim data	Same as O ₃