

What is the TSI value at solar minima in the space age?

Homage to Claus Fröhlich

Bo Andersen [bo.andersen@spaceagency.no], Norwegian Space Agency, Oslo, Norway

The value of the TSI at solar minima historically back to the Maunder Minimum is to a large degree not known to the level of accuracy needed for understanding the potential coupling with global Climate change. Sophisticated proxy models have been developed by several authors, but all of them rely upon the measured TSI value from space since 1979. Due to the gap in high quality measurements between ACRIM1 and ACRIM2 there are several conflicting time series for this measurements period, this leads to a built in uncertainty in the historical reconstructions. I will present a method to construct a coherent time series in this period with reference to latest calibrated measurements.