

**New and Improved Version of the VIRGO TSI and PMOD Composite**

***Claus Fröhlich [cfrohlich@pmodwrc.ch], Arts & Science, Davos Wolfgang, Switzerland.***

First the level 0 to 1 evaluation of the PMO6V radiometers has been re-done. This provides more accurate results and takes all the temperature effects properly into account – it removes the noise during the key-hole periods, when some of temperatures are missing and needs to be interpolated correctly. The determination of the corrections to PMO6V-B are now determined directly from a comparison with the corrected DIARAD level 1.8 and are no longer assumed to be the same as the early increase of PMO6V-A. For the DIARAD the ageing and electrical calibrations have been replaced after IRMB was no longer able to provide them – but they are probably more reliable mainly because they are based on the analysis of the whole record of 15 years. Thus, the level 2 of VIRGO TSI is internally consistent and takes the results of both type of radiometers equally into account. The result compares better with the SORCE TIM on a long-term basis. Last but not least, the absolute value of the VIRGO TSI has been changed accordingly. It takes the results from TRF comparison of PM&V and DIARAD representatives into account. The new VIRGO results may be used to fill the gaps in SORCE TIM as it can no longer provide continuous data.