



SURFACE UV-INDEX FORECASTS, LOCAL AND GLOBAL.

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We present here the local and global UV-index forecasts available on the DMI web page. The local UV-index is based upon ground based measurements of the total column density of ozone in the stratospheric ozone layer performed daily at DMI. A simple model is applied and an ozone forecast for the next 24 hours is calculated.

Based upon the measured and forecast ozone values the present and predicted UV-index for Denmark are calculated. We describe here the simple model behind the UV-index calculations and present a comparison with measured UV.

As partner in the "Ozone Satellite Application Facility" under EUMETSAT we have developed the "Near Real Time UV processor" (NRTUV). The input to the NRTUV is

assimilated total ozone column data (GOME) on a global grid and it calculates the clear sky UV-index with the same spatial coverage. The output product consists of colour coded contour maps of UV-index, one global and several regional maps.

The output product will be available for dissemination to end-users daily at 3 UT. We present the processor algorithm and examples of output from the proto-type processor. Results from the validation against ground based UV measurements are also presented.