

UV-B Monitoring and Research Program

The USDA UV-B Monitoring and Research Program (UVMRP) is a data collection and research program housed within the Natural Resource Ecology Lab at Colorado State University in Fort Collins, Colorado. The 16 year program operates a national network of solar irradiance monitoring stations equipped with instruments which provide measurements to meet the needs of agricultural, ecosystem, and atmospheric researchers.

Figure 1, found below, is a map of our locations and Figure 2, is a list of the primary measurements and derived quantities available to users in near real time from the UV-B Monitoring and Research program web site: <http://uvb.nrel.colostate.edu/UVB>. For more information email rita.deike@colostate.edu.

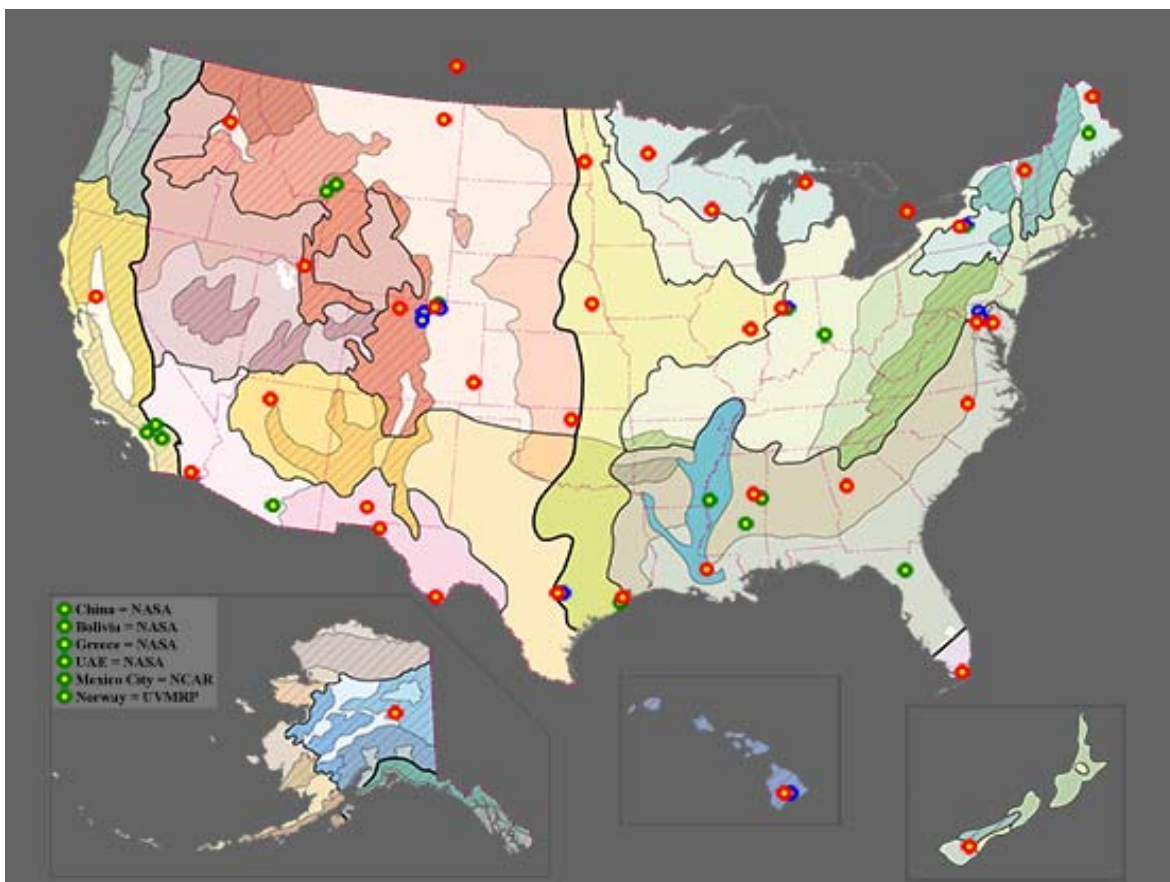


Figure 1

Product	Description	Primary or Derived
UV spectral irradiance	300-368 nm wavelengths	Primary
UV erythema irradiance	280-320 nm wavelengths	Primary
Visible spectral irradiance	415-940 nm wavelengths	Primary
Photosynthetically Active Radiation (PAR)	400-700 nm wavelengths	Primary
Aerosol optical depth	332 nm and 368 nm instantaneous or daily averaged	Derived from visible irradiance
Column ozone	Daily value	Derived from UV spectral irradiance
Synthetic spectra	300nm – 400 nm irradiance at 1 nm resolution	Derived from UV spectral irradiance
UV climatology	UV-A,UV-B, Erythema, Flint, Caldwell, Vitamin D as daily, monthly, and annual sums	Derived from synthetic spectra

Figure 2

Data Access: http://uvb.nrel.colostate.edu/UVB/uvb_dataaccess.jsf