

Open Data Collection South East Queensland (SEQ) Ultraviolet and Cloud Measurement

Annette Nanka

Collection

The *SEQ UV and Cloud Measurement Data Collection* contains UV radiation samples collected by Nathan Downs and Alfio Parisi in Toowoomba, South East Queensland between 2002 and 2009.

The open data collection includes ultraviolet and cloud coverage data measured by a spectroradiometer and a TSI (Total Sky Image) camera. UV measurements were taken at five minute intervals from 5am to 7pm every day. Cloud coverage was measured every sixty seconds from sunrise to sunset.



Above: The experimental set-up for dosimetric measurement of UV Protection and CROSS EYE 3D exposure wireframe

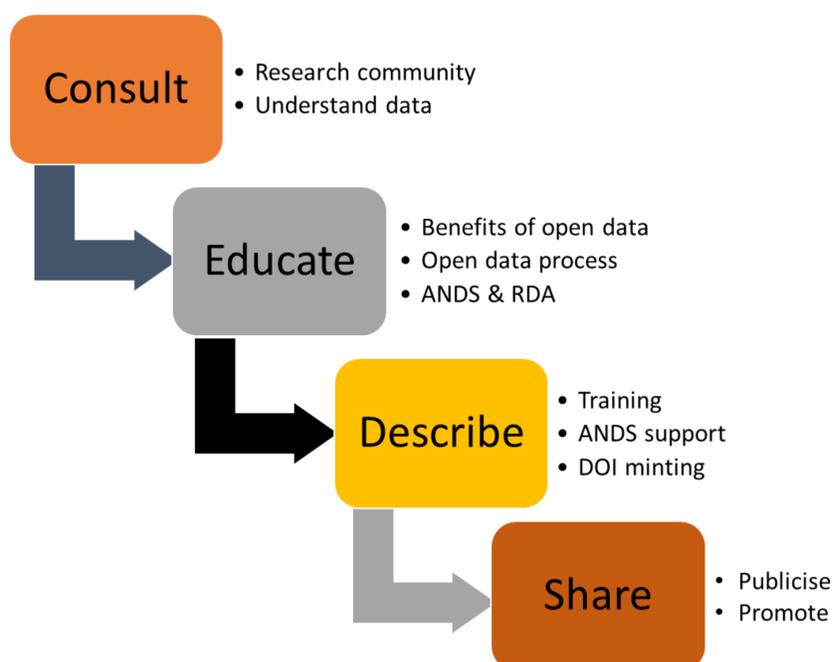
Applications

These data aim to improve our understanding of ultraviolet radiation, taking into account time of year, time of day, cloud and dust coverage, and other factors.

The collection was identified as having extensive potential for re-use in medical, social and environmental disciplines, and the topic continues to have high relevance and interest to the general public.

The data is currently being used by postgraduate, undergraduate and high school students in both research and teaching settings. The use of this data has enhanced levels of engagement throughout the learning process as students work with factual data to understand the effects of UV factors on the environment and their own personal sun safety. Students are able to personally experience the scope of potential research data applications.

Process



Benefits

The Open Data Collection Project has provided the genesis for a number of initiatives at USQ. These include creation of a research data repository within USQ ePrints; the establishment of a contract position to describe and make available an additional 24 collections; the development and delivery of training and tools to the USQ research community; and the development of Research Data Management Policy and Procedures.

Contact Us: Annette.Nanka@usq.edu.au

