COST Action 726
„Long term changes and climatology of UV radiation over Europe"

Conclusions and prospects

Zenobia Lityńska	(MC Chairwoman)
Peter Köpke	(MC Vice-Chairman and WG2-Leader)
Hugo de Backer	(WG1-Leader)
Alois Schmalwieser	(WG3-Leader)
Julian Gröbner	(WG4-Leader)
Bożena Łapeta	(Grant Holders Science Officer)

COST726 Seminar Warsaw 13./14. May 2009

Main objective**:**

To advance the understanding of UV radiation distribution under various meteorological conditions in Europe in order to determine UV radiation climatology and assess UV changes over Europe.

Geographically broader and scientifically deeper knowledge of the climatology of UV radiation and of selected biologically effective UV radiation doses across Europe.

The main beneficiaries will be the public, researchers in atmospheric and medical sciences as well as authorities and policy makers.

Conclusion

COST Action 726

Long term changes and climatology of UV radiation over Europe

was very successful

Erythemal UV doses for area 25.5 ° W - 35,5 ° E ~ 4000 km

30.5 ° N - 80.5 ° N ~ 5500 km

Cloud climatology

Ozone layer thickness climatology

Aerosol climatology

Snow albedo algorithm

Conclusion

Collection of biological weighting functions

7 wavelengths algorithm

UV radiometer intercomparison campaigns

Short time scientific missions

Training school

Young scientists invited for presentation of results

Conclusion

Web page with large amount of information: www.cost726.au

Scientific publications

Report

Electronic atlas with detailed information on all results

Booklet: UV radiation and life

Prospects

Open questions: UV radiation and human health

Health aspects

Vitamin D status, Vitamin action spectrum, immune supression

non melanoma skin cancer, eye effects,

etc

Typical UV radiation exposure on human body

skin orientation

enviroment (street canyon, shadow,…)

Personal aspects (region (?) dependent)

skin type

human behaviour (weather, holiday, workday, siesta…)

behaviour change with climate change

Prospects

Open questions: UV radiation and human health

>>>> New COST Action

Quantification of Human Ultraviolet Exposure (??????)