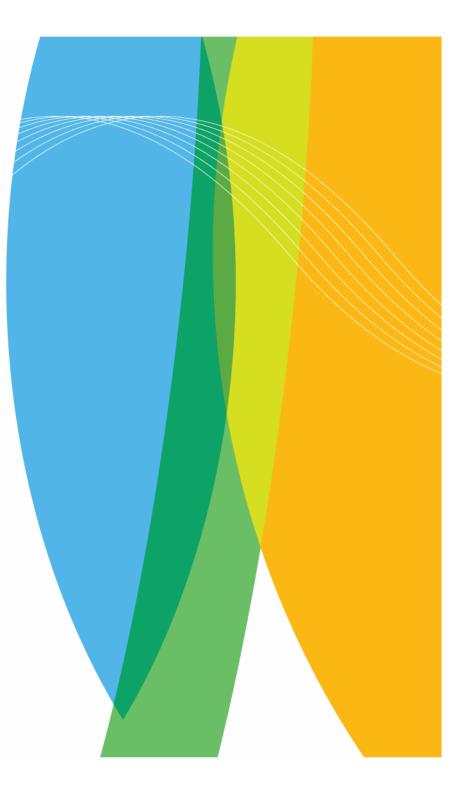


# Anders' STSM at the WRDC in St. Petersburg

Presented by Jussi Kaurola Finnish Meteorological Institute











# **STSM Overview**

- Mission: to get long-term global radiation data for many European stations
- Data that is needed for UV reconstruction in COST 726
- Duration
  - Thu 24 Jan --- Thu 7 Feb
- Host(s)
  - World Radiation Data Centre (WRDC)
  - Anatoly Tsvetkov and coworkers

#### Group photo at WRDC



Anatoly Grigory Anders Elena Svetlana



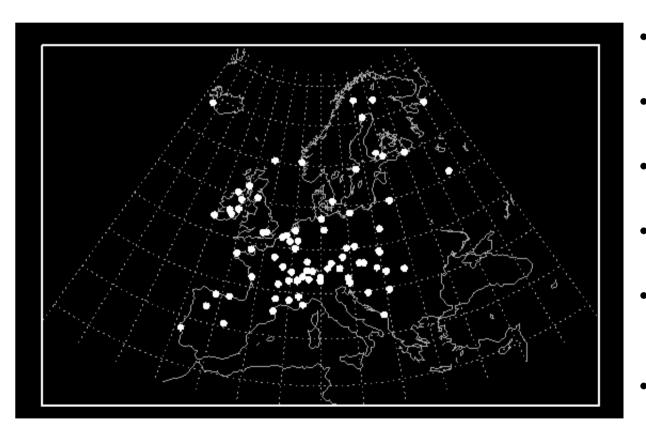
# What happened?

- Learned about procedures at WRDC concerning
  - Quality checking of data
  - Communication with national Met Services
  - Data archive
  - New super computing facilities
- Gave presentation on UV Reconstruction
  Techniques and COST Action 726
- Received data for 79 European stations
- Time series of at least 20 years
- Everybody became happy!





### **79 European stations**



- Stations of high quality were chosen
- Based on WRDC expertise
- Length of time series at least 20 years
- Some areas are still not well-covered
- Some questions concerning the WRR scale remain
- Additional quality checks are encouraged
- More details in STSM Report



# World Radiometric Reference (WRR) Scale

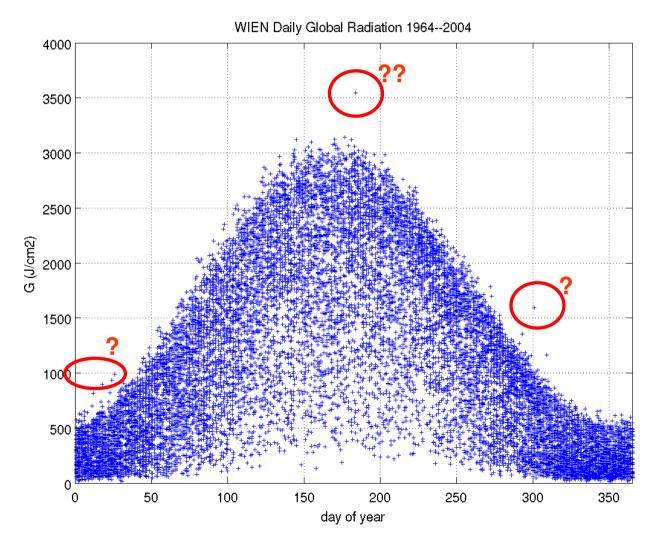
- Introduced by WMO, applied to radiation measurements in general since 1981
- However, for all stations, the WRDC has not received information on correction factor (CF) and/or start date of WRR scale
- Typically CF=1.02
- Some examples:

— Austria  WRR since Jan 1981   CF=?Suggestion: Use CF=1.02— Denmark  WRR since Sep 1982   CF=?Use CF=1.02
- Denmark   WRR since Sep 1962   CF=?
— Romania WRR since ???   CF=? No correction
- Spain   WRR since ???   CF=? can be made!?
— Switzerland WRR since ???   CF=1.022

 NOTE: Davos and Locarno WRR dates known, but not for other Swiss stations



#### Additional quality check would be good – example





# Summary of STSM at WRDC Petersburg

- Successful mission
- Data recieved for 79 stations
- Long-term: minimum length of time series is 20 years
- Some open questions and assumptions concerning correction to the WRR scale (~2% difference)
- More details are available
  - In STSM report by Anders Lindfors (available as PDF)
  - In the headers of the data files
- Remember to acknowledge WRDC when data is used
- Also: communicate with WRDC if something interesting/strange is found