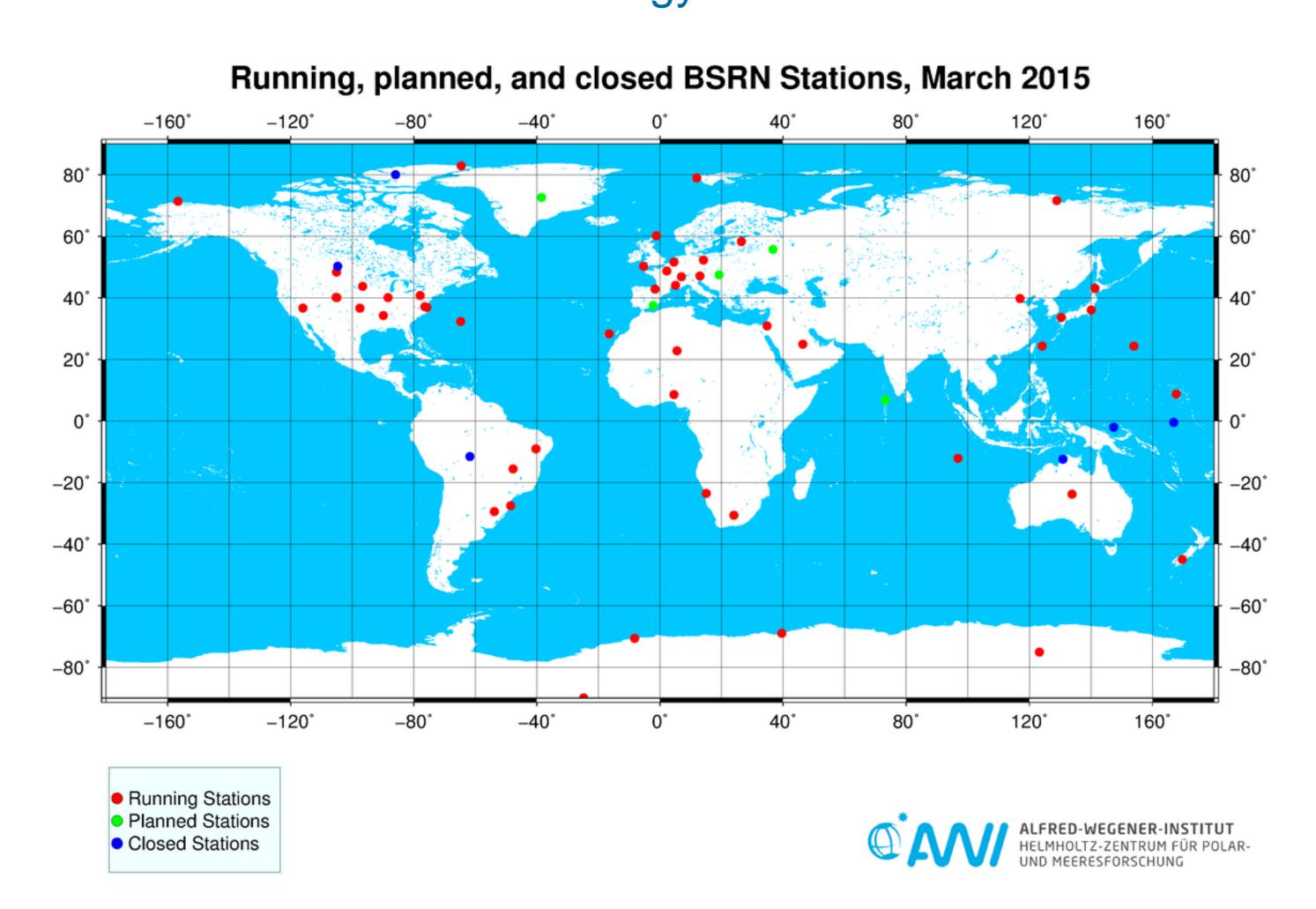


The World Radiation Monitoring Center (WRMC) of the Baseline Surface Radiation Network (BSRN)

Gert König-Langlo; Amelie Driemel; Rainer Sieger; Wolfgang Cohrs; Bonnie Raffel

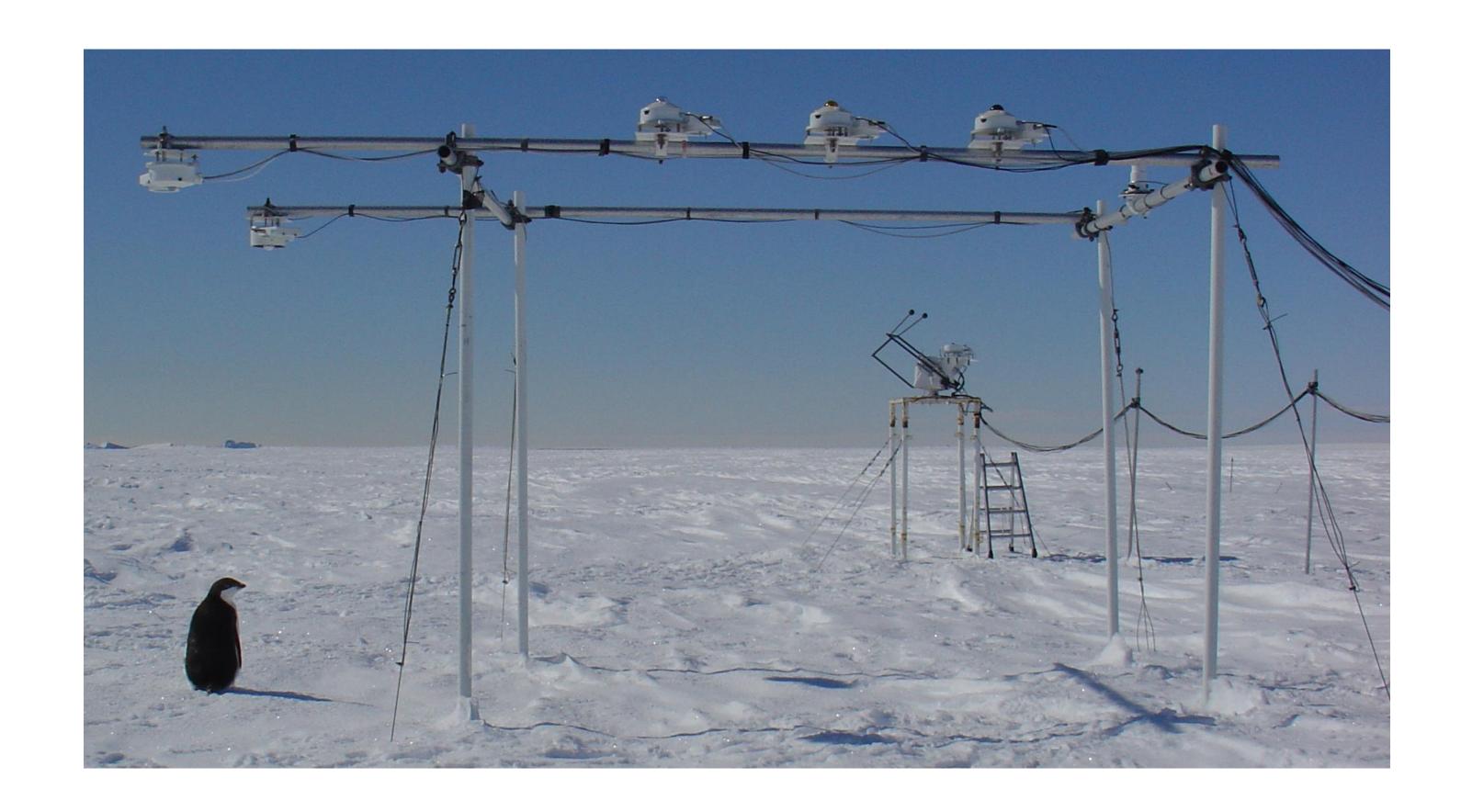
The WRMC...

- is the central archive of the BSRN.
- It was established in 1992 at ETH Zurich.
- > The objective of the archive is to provide the best possible quality for short- and long-wave surface radiation fluxes.
- > These readings are taken from a small number of selected stations, in contrasting climatic zones, together with collocated surface and upper air meteorological data and other supporting observations.
- > Originally, the archive was used only from climate scientists. Meanwhile, the WRMC also gets used more and more in the framework of solar energy research.



Available datasets

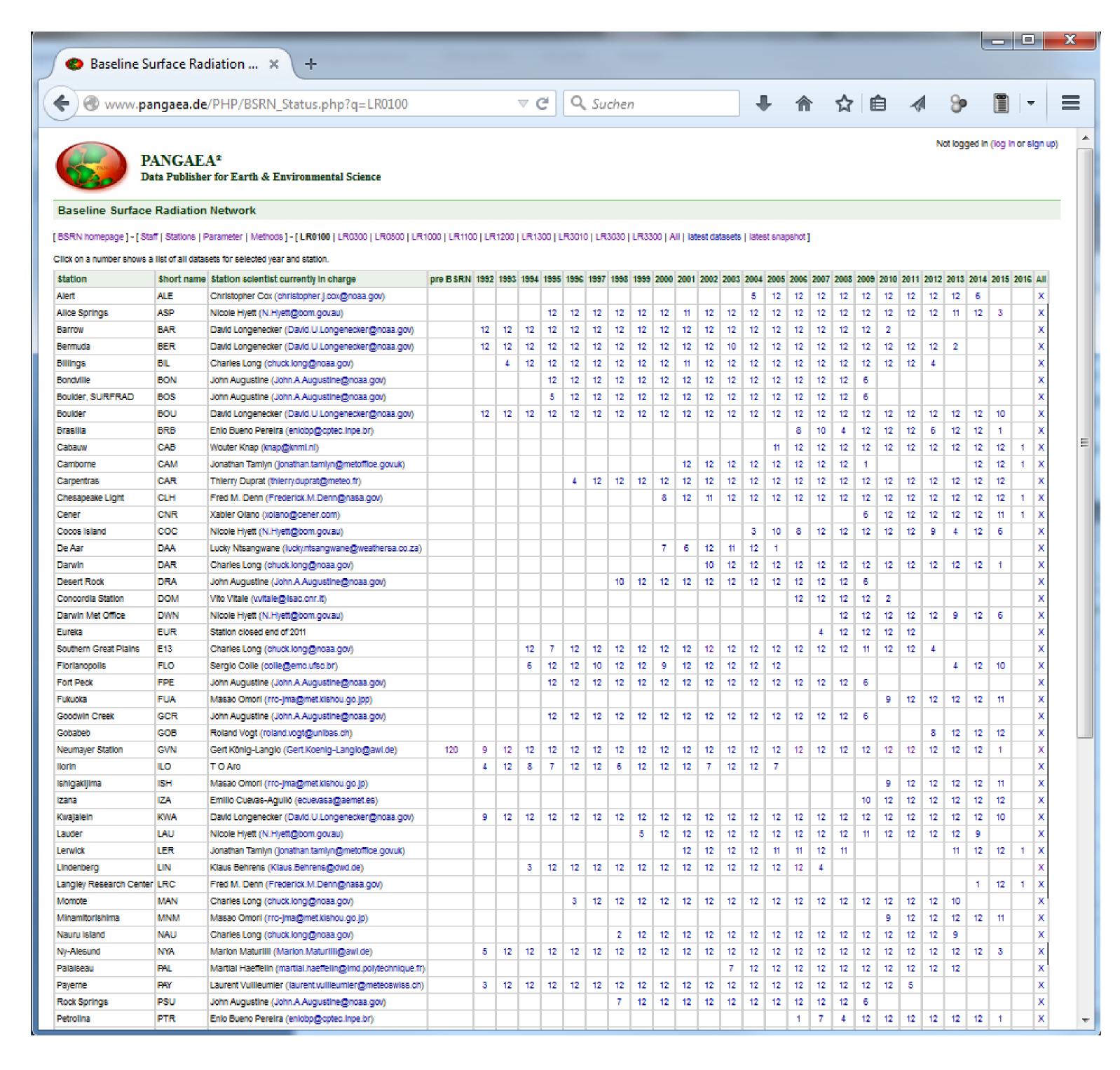
- The typical average interval for radiation data is one minute.
- > The parameters offered: global, diffuse, direct, long-wave down, reflex, long-wave up, UV radiation, synoptic upper air soundings, observations. radiation measurements from ceilometer data, and towers.
- ➤ More than 8700 months (~ 725 years) of high quality radiation data submitted from 59 stations since 1992 are archived.
- BSRN data are available for non commercial users for bona fide research purposes at no cost. For details see: http://bsrn.awi.de/data/conditions-of-data-release.html.
- > All data can be retrieved interactively by any registered user from a ftp-server and the Publishing Network PANGAEA (http://www.pangaea.de/search?q=BSRN).



AWI- BSRN station at Neumayer

Brief History

- > The BSRN was conceived and implemented in the late 1980s by the World Climate Research Program (WCRP).
- > Since the early 2000s the WRMC/BSRN is part of GEWEX, GAW, and GCOS.
- In July 2008 AWI took over the WRMC from ETH Zurich (http://www.bsrn.awi.de).



Web-interface for retrieving monthly BSRN datasets using PANGAEA

