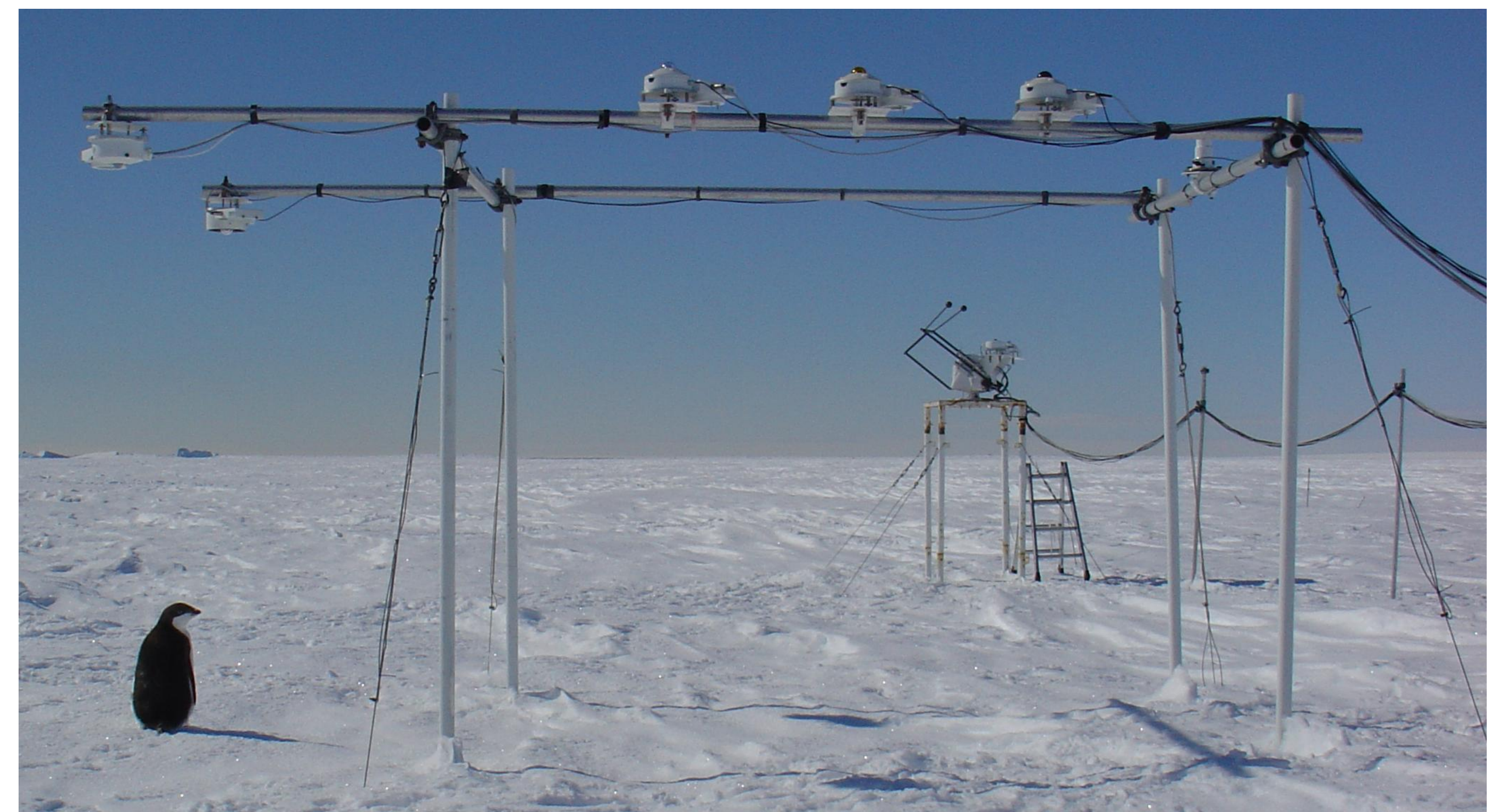


The World Radiation Monitoring Center (WRMC) of the Baseline Surface Radiation Network (BSRN)

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

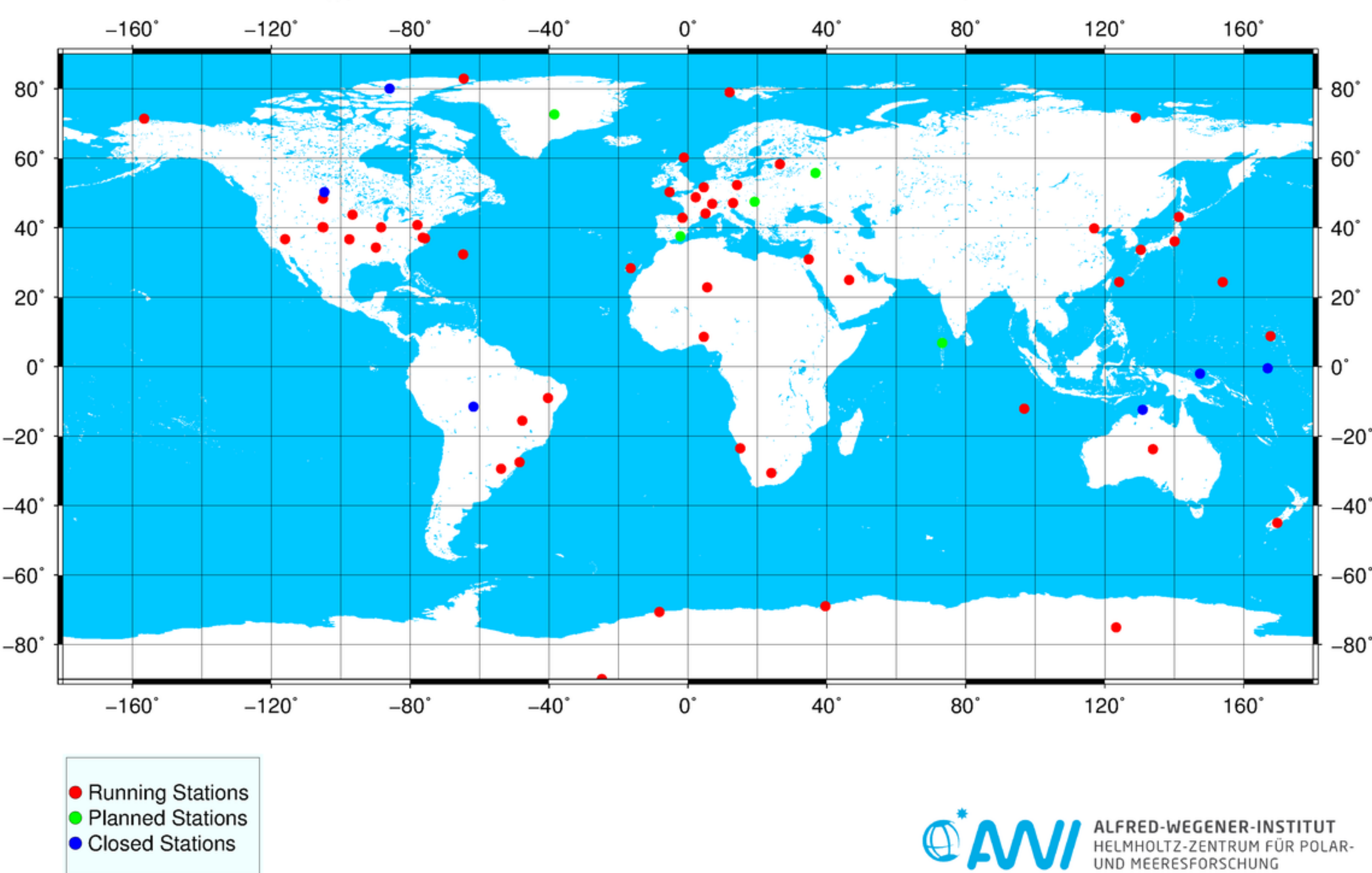
The WRMC...

- 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.



AWI- BSRN station at Neumayer

Running, planned, and closed BSRN Stations, March 2015

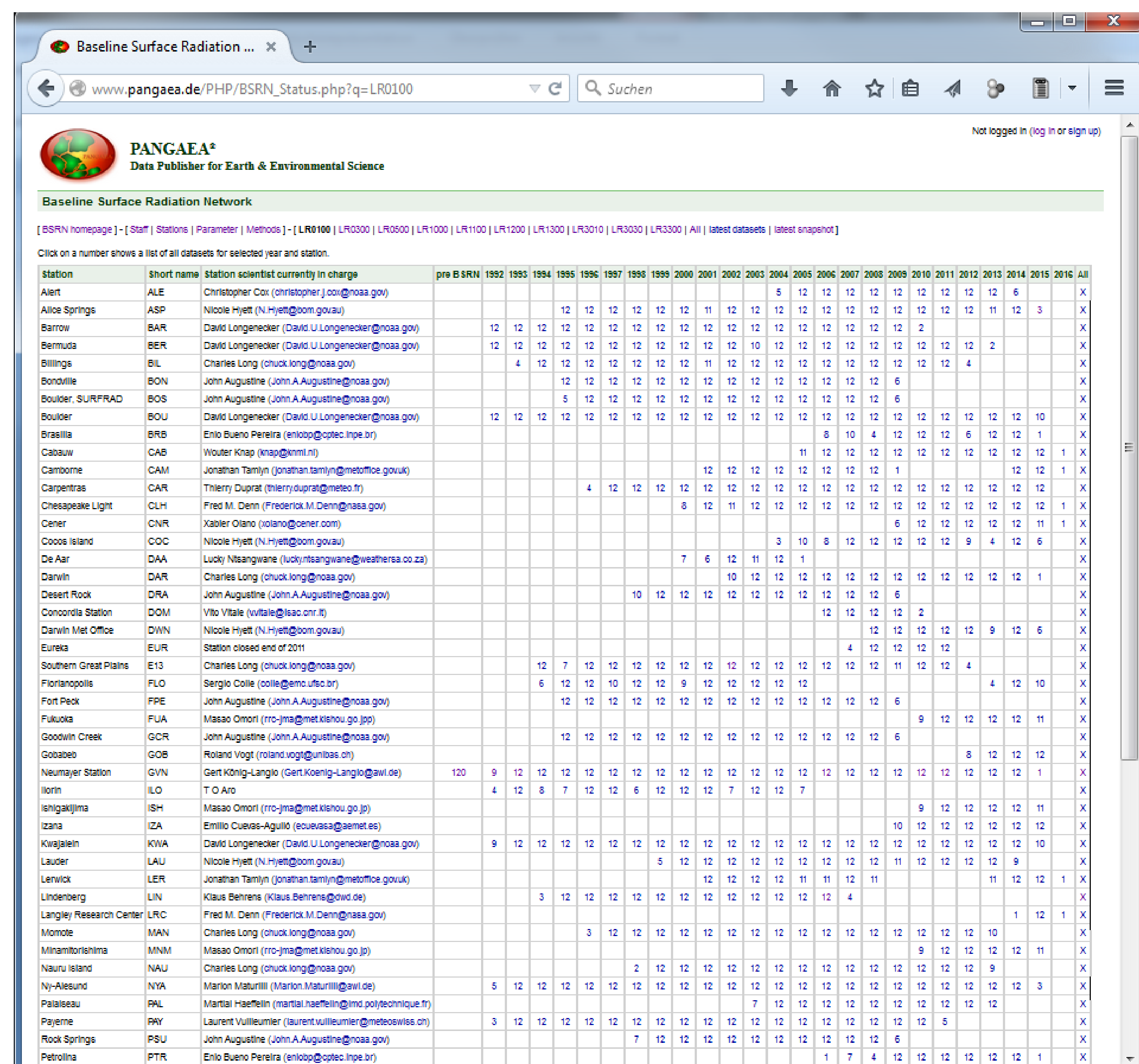


Available datasets

- 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 observations, upper air soundings, total ozone, ceilometer data, and radiation measurements from 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>).

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>).



Baseline Surface Radiation Network

Click on a number shows a list of all datasets for selected year and station.

Station	Short name	Station scientist currently in charge	pre BSRN	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	All
Alet	ALE	Christopher Cox (christopher.j.cox@noaa.gov)																											
Alice Springs	ASP	Nicole Hyett (N.Hyett@boom.gov.au)																											
Barrow	BAR	David Longenecker (David.L.Longenecker@noaa.gov)																											
Bermuda	BER	David Longenecker (David.L.Longenecker@noaa.gov)																											
Billings	BLI	Charles Long (chuck.long@noaa.gov)																											
Bonville	BON	John Augustine (John.A.Augustine@noaa.gov)																											
Boulder SURFRAD	BOS	John Augustine (John.A.Augustine@noaa.gov)																											
Boulder	BOU	David Longenecker (David.L.Longenecker@noaa.gov)																											
Brasilia	BRB	Elio Bueno Pereira (eliobp@cpac.ipeac.br)																											
Cadoux	CAB	Wouter Knap (wkn@met.rug.nl)																											
Carombé	CAM	Jonathan Tamlyn (jonathan.tamlyn@metoffice.gov.uk)																											
Carpetras	CAR	Thierry Duprat (thierry.duprat@meteo.fr)																											
Chesapeake Light Center	CLH	Fred M. Denn (Fredrick.M.Denn@noaa.gov)																											
Cener	CEN	Xavier Orlain (x.ortain@ceher.com)																											
Coobs Island	COC	Nicole Hyett (N.Hyett@boom.gov.au)																											
De Aar	DAA	Lucky Ntlangwane (lucky.ntlangwane@weathera.co.za)																											
Darwin	DAR	Charles Long (chuck.long@noaa.gov)																											
Desert Rock	DRA	John Augustine (John.A.Augustine@noaa.gov)																											
Concordia Station	DOM	Vito Vitale (vital@cea.fr)																											
Darwin Met Office	DWIN	Nicole Hyett (N.Hyett@boom.gov.au)																											
Eureka	EUR	Station closed end of 2011																											
Southern Great Plains	E13	Charles Long (chuck.long@noaa.gov)																											
Fiontopolis	FLO	Sergio Orlain (sergio.ortain@cea.fr)																											
Fort Peck	FPE	John Augustine (John.A.Augustine@noaa.gov)																											
Fukuda	FUK	Masao Omori (mori-jm@met.kishou.go.jp)																											
Goodwin Creek	GCR	John Augustine (John.A.Augustine@noaa.gov)																											
Goosau	GOB	Roland Vogt (roland.vogt@meteo.ch)																											
Neumayer Station	QIN	Gert König-Langlo (Gert.Koenig-Langlo@awi.de)	120	9	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Isoiri	ILO	T O Aoi																											
Ishigakiima	ISH	Masao Omori (mori-jm@met.kishou.go.jp)																											
Izana	IZA	Emilio Cuevas-Agullo (ecuevas@meteo.es)																											
Kragulain	KVA	David Longenecker (David.L.Longenecker@noaa.gov)																											
Laue	LAU	Nicole Hyett (N.Hyett@boom.gov.au)																											
Lansix	LER	Jonathan Tamlyn (jonathan.tamlyn@metoffice.gov.uk)																											
Lindenberg	LIN	Klaus Behrens (Klaus.Behrens@meteo.de)																											
Langley Research Center	LRC	Fred M. Denn (Fredrick.M.Denn@noaa.gov)																											
Momote	MAN	Charles Long (chuck.long@noaa.gov)																											
Mitsunobishima	MNM	Masao Omori (mori-jm@met.kishou.go.jp)																											
Nauru Island	NAU	Charles Long (chuck.long@noaa.gov)																											
Ny-Alesund	NVA	Martin Maturilli (Martin.Maturilli@awi.de)																											
Palaiseau	PAL	Martin Maturilli (Martin.Maturilli@awi.de)																											
Payenne	PAY	Laurent Vuilleumier (laurent.vuilleumier@meteo.wiss.ch)																											
Rock Springs	RSU	John Augustine (John.A.Augustine@noaa.gov)																											
Petrolina	PTR	Elio Bueno Pereira (eliobp@cpac.ipeac.br)																											

Web-interface for retrieving monthly BSRN datasets using PANGAEA