



About the Baseline Surface Radiation Network BSRN

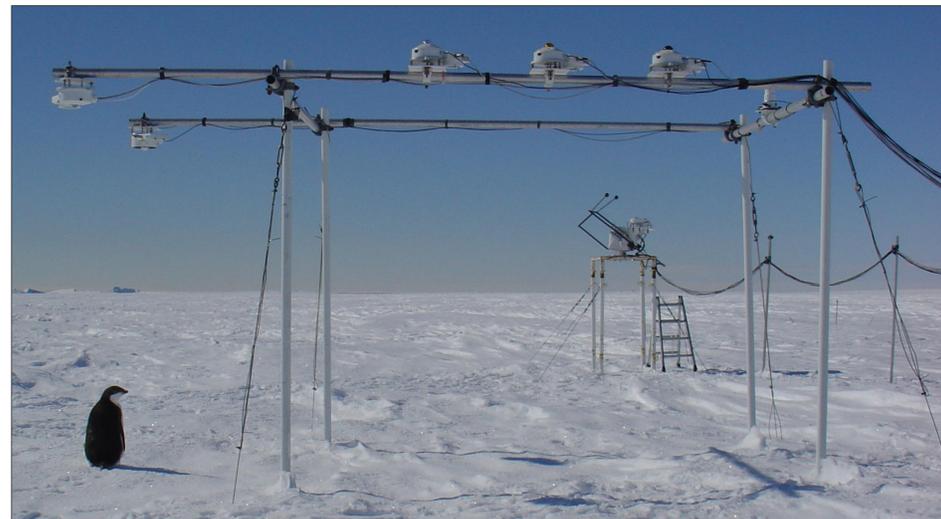
Gert König-Langlo¹, Chuck Long², Rainer Sieger¹, Amelie Driemel¹, Holger Schmithüsen¹, Wolfgang Cohrs¹, Bonnie Raffel¹

¹Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, GERMANY

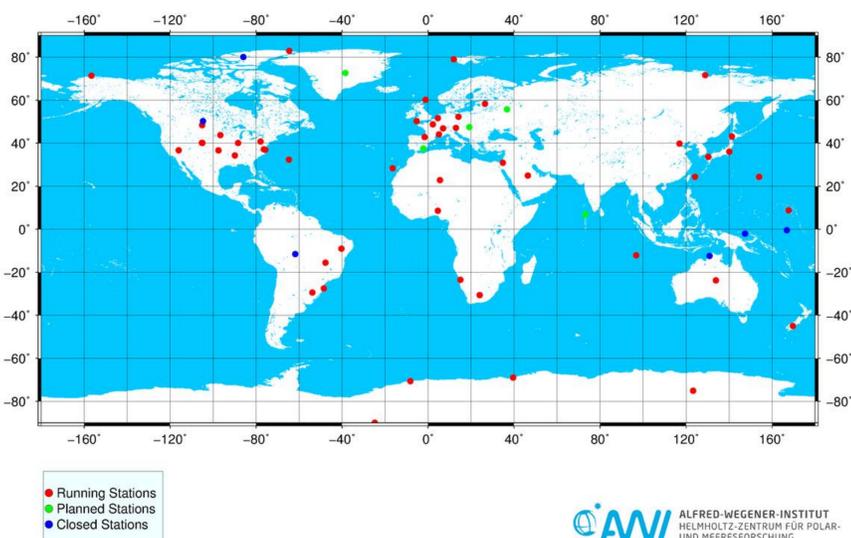
²NOAA ESRL GMD/CIRES, Boulder, CO, USA

The BSRN supports climate scientists to...

- monitor the background of the short- and long-wave radiative components as well as their long term changes,
- validate and evaluate satellite-based measurements of surface radiative fluxes,
- prove climate model (GCM) results and develop local radiation climatologies.



BSRN station at Neumayer (GVN)



Available datasets

- The typical average interval for radiation data is 1 minute.
- The parameters offered: Global, diffuse, direct, long-wave down, reflex, long-wave up, UV, synoptic observations, upper air soundings, total ozone, ceilometer data, radiation measurements from tower.
- More than 8200 months (~ 700 years) of high quality radiation measurements submitted by 59 stations since 1992 are available.
- All data can be retrieved directly by any registered scientist from our ftp-server (ftp.bsrn.awi.de) and PANGAEA (<http://www.pangaea.de/search?q=BSRN>).



BSRN station Desert Rock (DRA)

Brief History

- The BSRN was conceived and implemented in the late 1980s by the World Climate Research Program (WCRP).
- In 1992 the World Radiation Monitoring Center – the central archive of the BSRN - was established at ETH Zurich.
- Since the early 2000s the WRMC/BSRN is part of GEWEX, GAW, and GCOS.
- In July 2008 the Alfred Wegener Institute in Bremerhaven took over the WRMC (<http://www.bsrn.awi.de>).
- For the coming 3 years the service of the WRMC at the Alfred Wegener Institute is guaranteed.

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	All
ALE	CHR	Christopher Cox (christopher.cox@noaa.gov)																										
Alice Springs	ASP	Bruce Forgan (B.Forgan@boon.gov.au)																										
Bartov	BAR	David Longmeyer (David.Longmeyer@noaa.gov)																										
Bermuda	BER	David Longmeyer (David.Longmeyer@noaa.gov)																										
Bisminga	BL	Charles Long (chuck.long@noaa.gov)																										
Bonville	BON	John Augustine (John.Augustine@noaa.gov)																										
Boulder SURFRAD	BOS	John Augustine (John.Augustine@noaa.gov)																										
Boulder	BOU	David Longmeyer (David.Longmeyer@noaa.gov)																										
Bratelia	BRB	Eric Siano Reeves (eric.siano@noaa.gov)																										
Caslow	CAB	Wouter Knip (wknip@rsm.nl)																										
Carbome	CAM	Jonathan Tamlyn (jonathan.tamlyn@metoffice.gov.uk)																										
Carpentras	CAR	Thierry Duprat (thierry.duprat@meteo.fr)																										
Chesapeake Light	CLH	Fred M. Denn (Fredrick.M.Denn@noaa.gov)																										
Cheer	CHR	Xavier Claret (xclaret@meteo.ch)																										
Coast Island	COC	Bruce Forgan (B.Forgan@boon.gov.au)																										
De Aar	DAA	Lucky Ntlangane (lucky.ntlangane@metoffice.co.za)																										
Darwin	DAR	Charles Long (chuck.long@noaa.gov)																										
Desert Rock	DRA	John Augustine (John.Augustine@noaa.gov)																										
Concordia Station	DOM	Vito Vitale (vital@isac.onr.it)																										
Darwin Met Office	DWIN	Bruce Forgan (B.Forgan@boon.gov.au)																										
Eureka	EUR	Station closed end of 2011																										
Southern Great Plains	EGP	Charles Long (chuck.long@noaa.gov)																										
Florinapolis	FLO	Sergio Cole (sergio.cole@metoffice.gov.uk)																										
Fort Peak	FPE	John Augustine (John.Augustine@noaa.gov)																										
Fukaoka	FUA	Massao Omori (omori.masao@met.kishou.go.jp)																										
Goodwin Creek	GCR	John Augustine (John.Augustine@noaa.gov)																										
Goosev	GOS	Healand Vogt (healand.vogt@noaa.gov)																										
Neumayer Station	GVN	Gert König-Langlo (Gert.Koenig-Langlo@awi.de)	121	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
Iopon	T O AVO		4	12	8	7	12	12	6	12	12	12	7															
Istigaitima	ISH	Massao Omori (omori.masao@met.kishou.go.jp)																										
Izana	IZA	Emilio Cuevas-Agullo (ecuevas@ismet.es)																										
Kaigashen	KVA	David Longmeyer (David.Longmeyer@noaa.gov)																										
Lauder	LAU	Bruce Forgan (B.Forgan@boon.gov.au)																										
Lerwick	LER	Jonathan Tamlyn (jonathan.tamlyn@metoffice.gov.uk)																										
Lindenberg	LIN	Klaus Behrens (Klaus.Behrens@de.dlr.de)																										
Langley Research Center	LRC	Fred M. Denn (Fredrick.M.Denn@noaa.gov)																										
Monote	MAN	Charles Long (chuck.long@noaa.gov)																										
Marambaopima	MAM	Massao Omori (omori.masao@met.kishou.go.jp)																										
Nauru Island	NAU	Charles Long (chuck.long@noaa.gov)																										
Ny-Alesund	NVA	Marion Maturilli (Marion.Maturilli@awi.de)																										

Web-interface for retrieving monthly BSRN datasets via PANGAEA