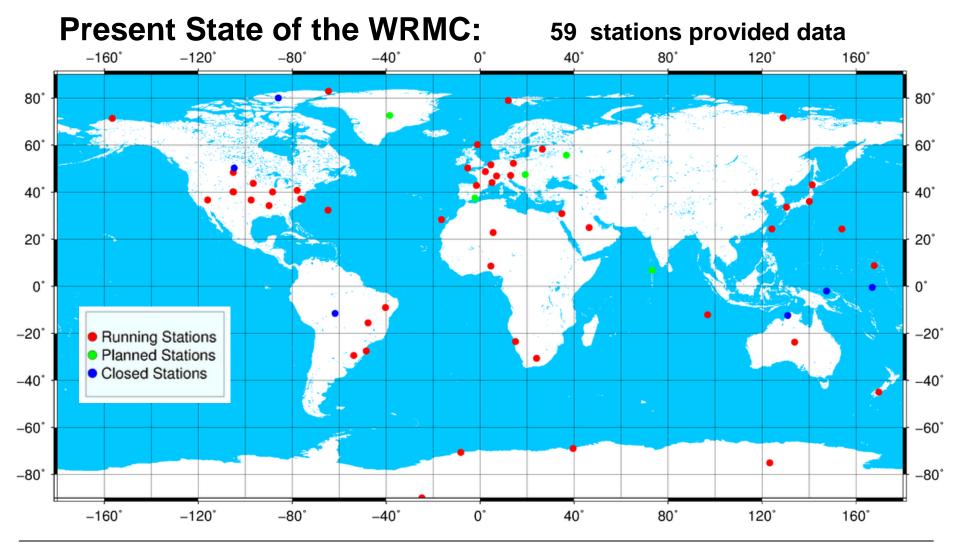


Current state of the World Radiation Monitoring Center









Present State of the WRMC:	Station Month:	8761
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The typical average interval for radiation data is 1 minute:	Stations 2016 (2012)
1. LR 0100: (Global, Diffuse, Direct, Long-wave down)	59 (54)
2. LR 0300, 3010: (Reflex, Long-wave up)	23 (19)
3. LR 0500: (UV)	14 (12)
4. LR 1000: (Synops)	13 (12)
5. LR 1100: (Upper air soundings)	30 (29)
6. LR 1200: (Total ozone)	9 (9)
7. LR 1300: (Aerosol optical depths) (under construction)	(14)
8. LR 1300: (Ceilometer data)	3 (3)
9. LR 30x0: (Radiation measurements from tower)	13 (13)



World Radiation Monitoring Center- Baseline Surface Radiation Network



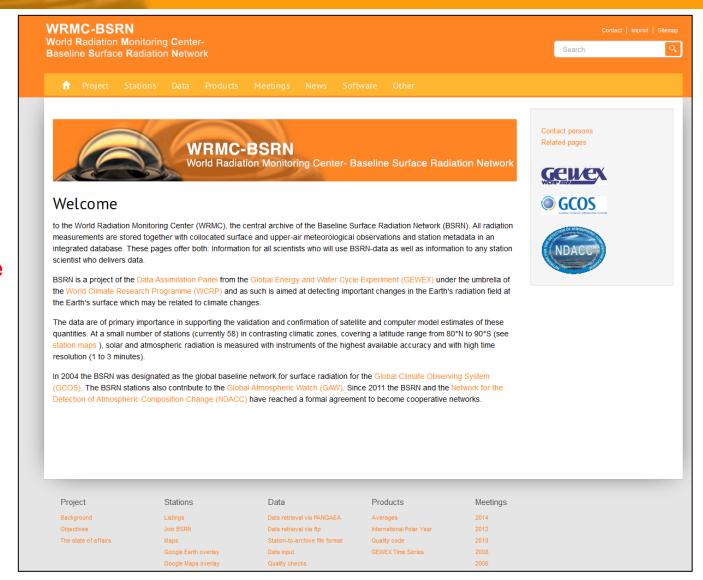
Present State of the WRMC: 8391 (6719) station-months available

Station	Short name	Station manager currently in charge David Halliwell (David.Halliwell@ec.gc.ca) Bruce Forgan (B.Forgan@bom.gov.au) Ellsworth Dutton (Ellsworth.G.Dutton@noaa.gov) Ellsworth Dutton (Ellsworth.G.Dutton@noaa.gov) Charles Long (chuck.long@pnl.gov) John Augustine (John.A.Augustine@noaa.gov) John Augustine (John.A.Augustine@noaa.gov) Ellsworth Dutton (Ellsworth.G.Dutton@noaa.gov) Enio Bueno Pereira (eniobp@cptec.inpe.br) Wouter Knap (knap@knmi.nl) Patrick Fishwick (patrick.fishwick@metoffice.com Jean-Philippe Morel (jean-philippe.morel@meteo.fi Fred M. Denn (Frederick.M.Denn@nasa.gov) Naif Al-Abbadi Ellsw	pre BSRN	1992	1993	1994	199	5 1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	•	
Alert	ALE	David Halliwell (David.Halliwell@ec.gc.ca)																					_	*	Ç
Alice Springs	ASP	Bruce Forgan (B.Forgan@born.gov.au)					12	12	12	12	12	12	11	12	12	12	12	12	1		_		\mathcal{M}	10	,
Barrow	BAR	Ellsworth Dutton (Ellsworth.G.Dutton@noaa.gov)		12	12	12	12	12	12	12	12	12	12	12	12	12	12			_ 4	70	V	, .		
Bermuda	BER	Ellsworth Dutton (Ellsworth.G.Dutton@noaa.gov)		12	12	12	12	12	12	12	12	12	12	12	10			_ 1	s C	21	1.				Х
Billings	BIL	Charles Long (chuck.long@pnl.gov)			4	12	12	12	12	12	12	12	11	1		_	-1	1 T	''	9		1	12	4	Х
Bondville	BON	John Augustine (John.A.Augustine@noaa.gov)					12	12	12	12	12	12			_ 4	2	5	V		12	6				Х
Boulder, SURFRAD	BOS	John Augustine (John.A.Augustine@noaa.gov)					- 5	12	12	12			_	a (O,			12	12	6				Х
Boulder	BOU	Ellsworth Dutton (Ellsworth.G.Dutton@noaa.gov)		12	12	12	12	12	100			_	17	()			12	12	12	12	12	2			Х
Brasilia	BRB	Enio Bueno Pereira (eniobp@cptec.inpe.br)									1	7	1	• •				8	10	4	9	12	12	5	Х
Cabauw	CAB	Wouter Knap (knap@knmi.nl)						_	4	1	"						11	12	12	12	12	12	12	4	Х
Camborne	CAM	Patrick Fishwick (patrick.fishwick@metoffice.com	1)			_	17	12	l				12	12	12	12	12	12	6						Х
Carpentras	CAR	Jean-Philippe Morel (jean-philippe.morel@meteo.fr	2		- 0	、 (3 //	10		1	12	12	12	12	12	12	12	12	12	12	12	12	12	5	Х
Chesapeake Light	CLH	Fred M. Denn (Frederick.M.Denn@nasa.go		C 1	£ 7	1 1	-					8	12	11	12	12	12	12	12	12	12	12	12	6	Х
erra	0011	rs	O											40											
	SOV	Naif Al-Abbadi		Ī						3	12	12	12	12											X
	SPO	1160		12	12	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	2			Х
,	SYO	- C ()				12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11		X
ioux Falls	11	560mimouni_dz@yahoo.fr)													7	12	12	12	12	12	6				Х
amanre	\ \ \ '	mimouni_dz@yahoo.fr)										10	12	12	12	12	12	12	12	12	12	12	12	4	Х
121) \							11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	4	X
13		asilii Kustov (kustov@aari.ru)																				7	9		Х
		Ain Kallis (kallis@aai.ee)									12	12	12	12	12	12	12	12	12	12	12	12	12	5	Х
	XIA	Xiangao Xia (xiangaoxia2000@yahoo.com)															12	12	12	8					Х
	Eismitte All		1	x	х	х	х	х	х	x	х	х	х	x	х	×	х	×	х	х	x	x	х	х	X
			pre BSRN	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	AII

WRMC-BSRN

World Radiation Monitoring Center- Baseline Surface Radiation Network





Redesign of:

http://www.bsrn.awi.de





Mailing Lists

bsrn-stations@listserv.dfn.de

Communication between the BSRN/WRMC administration and all BSRN station scientists. Only persons included in this group are allowed to use it.

bsrn-user@listserv.dfn.de

Communication between the BSRN/WRMC administration and all BSRN user. To avoid spam and too much mails the use of this list is restricted to the BSRN/WRMC administration.



Typical Customers

About 150 account requests in 2016

Satellite Validation

Remote Sens. 2015, 7, 8067-8101; doi:10.3390/rs70608067



www.mdpi.com/journal/remotesensing

Article

Digging the METEOSAT Treasure—3 Decades of Solar **Surface Radiation**

Richard Müller *, Uwe Pfeifroth , Christine Träger-Chatterjee, Jörg Trentmann and Roswitha Cremer

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Academic Editors: Dongdong Wang and Prasad S. Thenkabail

Received: 23 February 2015 / Accepted: 2 June 2015 / Published: 18 June 2015



Open Access

Article

Typical Customers

About 150 account requests in 2016

- Satellite Validation
- Climate Reseach



Climate Dynamics
June 2015, Volume 44, Issue 11, pp 3393-3429

The energy balance over land and oceans: an assessment based on direct observations and CMIP5 climate models

Martin Wild, Doris Folini, Maria Z. Hakuba, Christoph Schär, Sonia I. Seneviratne, Seiji Kato, David Rutan, Christof Ammann, Eric F. Wood, Gert König-Langlo

First online: 11 December 2014

Received: 19 February 2014 | Accepted: 24 November 2014

DOI: 10.1007/s00382-014-2430-z

Citations: 14



Typical Customers

About 150 account requests in 2016

- Satellite Validation
- Climate Reseach
- Solar Energy

Title:	Energy Loss Due to Irradiance Enhancement
Author(s):	M. Zehner, T. Weigl, S. Thaler, O. Schrank, M. Czakalla, B. Mayer, T.R. Betts, R. Gottschalg, K. Behrens, G. Koenig Langlo, B. Giesler, G. Becker, O. Mayer

ESTIMATING OVERALL MPP TRACKING LOSSES USING WEATHER STATISTICS

Keywor

Matthias Egler, Sam Gordon
OST Energy Ltd, Nile House, Second Floor, Nile Street, Brighton (UK), BN1 1HW
Phone: +44 (0)1273 819 429, e-mail: matthiasegler@ostenergy.com

Topic:

Subtop

Event:

ABSTRACT: In energy yield studies for PV systems, MPP tracking losses are often neglected. EN 50530:2010 introduced a methodology for the measurement of static and dynamic MPPT efficiencies. Typically, the influence of the MPP tracker under static environmental conditions is accounted for by using a fixed and location-independent factor.

The performance of the inverter's MPP tracking system decreases under dynamic conditions, and therefore depends on the input variability, i.e. the weather conditions experienced by the PV plant. Differences in the statistics of the irradiance slopes experienced at different locations means that MPP tracking losses can vary significantly from one location to another.

In this paper, high-quality irradiation time series have been analysed against adapted EN 50530:2010 irradiance slopes. The results indicate an annual fraction of static conditions ranging from approx. 40% to 90%. When combined with typical MPP tracking performance found in the market, this leads to a variation of the overall MPP tracking losses of 0.9% to 0.4%, indicating location-specific data should be applied to increase accuracy in PV energy yield studies.

Keywords: Energy yield, MPPT performance, Energy meteorology

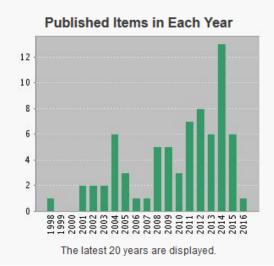


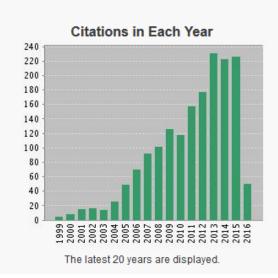
BSRN in Web of Science (2016)

Citation Report: 72 (from All Databases)

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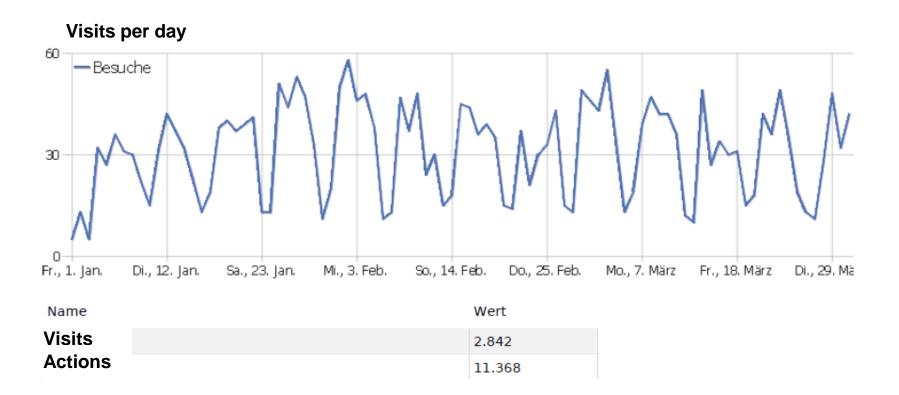








Web Statistics: Jan – March 2016







Web Statistics: Jan - March 2016

Land	Visits	Actions	Aktionen pro Besuch	Durchschnittsze it auf der Website
Vereinigte Staaten	1.190	4.632	4	00:03:29
Deutschland	268	1.209	5	00:04:31
Spanien	177	773	4	00:03:41
Frankreich	172	719	4	00:02:24
China	158	684	4	00:05:37
Japan	148	399	3	00:02:06
Vereinigtes Königreich	134	535	4	00:03:02
Brasilien	107	257	2	00:02:55
Südkorea	90	480	5	00:05:43
[Italien	61	258	4	00:05:09
Russland	39	134	3	00:01:57
Niederlande	36	159	4	00:04:41
Mustralien	26	118	5	00:04:19
Estland	26	117	5	00:05:36



Web Statistics: Jan – March 2016

Visits per continent

Kontinent	Visits	Actions	Aktionen pro Besuch
Nordamerika	1.202	4.698	4
Europa	1.063	4.555	4
Asien	416	1.607	4
Südamerika	117	332	3
Ozeanien	27	122	5
unbekannt	16	19	1
Afrika	1	35	35



FTP Statistics: ftp.bsrn.awi.de

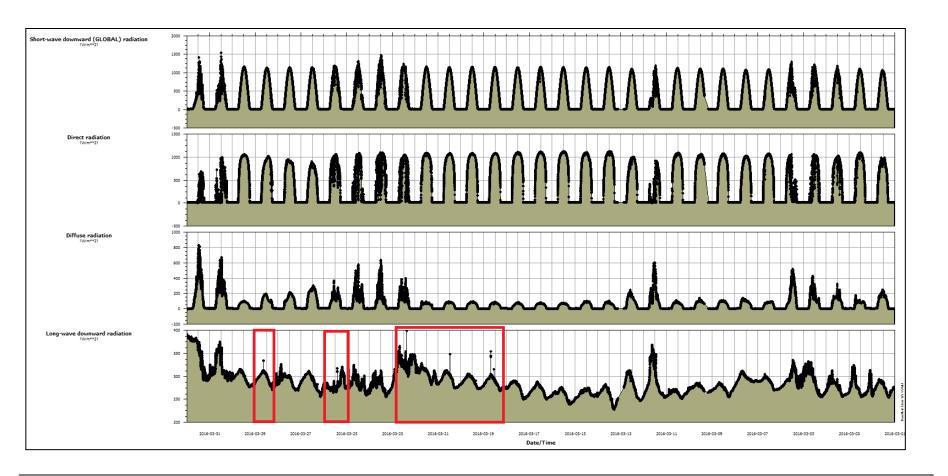
TOTALS FOR SUMMARY PERIOD MARCH 2016

Files Transmitted: 16.229

Bytes Transmitted: 16.728.110.291 (16 GB)

Average Files Transmitted Daily: 560







Amelie Driemel (Bücker) (postdoc, data curator)

Dr. Amelie Driemel



Division Infrastructure/Administration | Computing and

Data Centre

Related page >

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ORCID http://orcid.org/0000-0001-8667-5217

Responsibilities

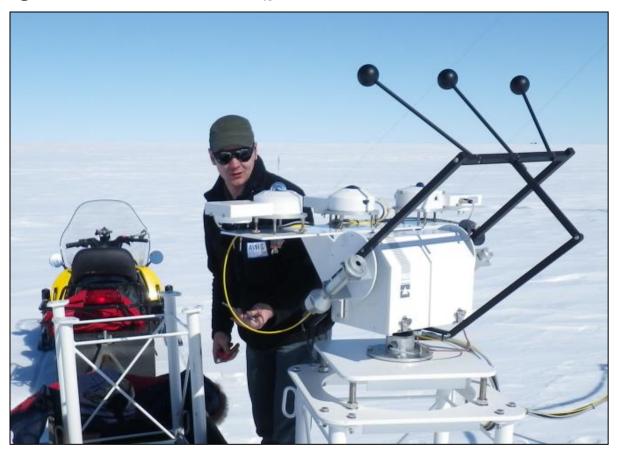
Data Editor of PANGAEA - Publishing Network for Geological and Environmental Data PANGAEA

Data Curator of BSRN - Baseline Surface Radiation Network BSRN





Holger Schmithüsen(postdoc, BSRN-Toolbox, QC)







Wolfgang Cohrs (technical coordinator)





Rainer Sieger (PANGAEA administrator)

Dr. Rainer Sieger

Data curator



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Responsibilities

Data curator of PANGAEA - Publishing Network for Geological and Environmental Data - Software development



Gert König-Langlo (director of the WRMC)





Staff of the WRMC from May 2017 onward

- Successor (student, data curator)
- Amelie Driemel (Bücker) (director of the WRMC)
- Holger Schmithüsen(station scientist: GV,N)C)
- Wolfgang Cohrs (technical coordinator)
- Rainer Sieger (PANGAEA administrator)
- Gert König-Langlo (director of the WRMC)
 - Marion Maturilli (station scientist NYA)



Director of AWI Karin Lochte:

"AWI will continue to host the BSRN network at present level"