

**13<sup>th</sup> BSRN Scientific Review and Workshop**  
**Bologna (Italy) September 9-12, 2014**  
 (final program with links to presentations) [full zip file](#)

**Tuesday, September 9, 2014**

<b>OPENING</b>	
9:00 AM	<a href="#">Cristina Sabbioni</a> (Director) - Institute of Atmospheric Sciences and Climate Welcome
9:20 AM	<a href="#">Lanconelli and Vitale</a> - Meeting logistics
9:40 AM	<a href="#">Tim Oakley</a> - WMO - WMO/GCOS - (1) Status/Plans for GCOS (2) The GCOS Implementation Manager and the GCOS Cooperation Mechanism
10:00 AM	<a href="#">Nozomu Ohkawara</a> - Japan Met Agency - Report on GCOS AOPC meeting
10:20 AM	<a href="#">Joseph Michalsky</a> - NOAA - State of BSRN
<b>NEW SITES</b>	
11:10 AM	<a href="#">Alexander Makshtas</a> - St Petersburg - AARI - New Russian polar station at Severnaya Zemlya - potential member of BSRN network
11:40 AM	<a href="#">Antonio Paz</a> - Costa Rica - Instituto Costarricense de Electricidad - Installation of solar direct radiation measurement equipment in Costa Rica
12:00 PM	<a href="#">Katlego Ncongwane</a> - South Africa - WEATHERSA - Status of the South African De Aar station
12:20 PM	<a href="#">Enio Pereira</a> - Brazil - INPE - Status of four SONDA BSRN stations in Brazil
12:40 PM	<a href="#">Taniel Uttal</a> - NOAA - Arctic radiation activities coordinated through the International Arctic Systems for Observing the Atmosphere (IASOA)
<b>OBSERVATIONS AND ANALYSIS</b>	
2:30 PM	<a href="#">Maria Hakuba</a> - ETH - Solar absorption and cloud radiative effects observed at BSRN sites
2:50 PM	<a href="#">Vasilii Kustov</a> - Arctic and Ant. Res. Inst. - Shortwave radiation balance of Northern Yakutia according the data from the Tiksi BSRN station and Russian standard stations
3:10 PM	<a href="#">Ben Liley</a> - NIWA - Use of BSRN to enhance the value of radiation data from the New Zealand climate network
3:30 PM	<a href="#">Marion Maturilli</a> - AWI Germany - Seasonality in long-term temperature and radiation changes in Ny-Ålesund
4:10 PM	<a href="#">John Augustine</a> - NOAA - Combining BSRN surface observations with MODIS data to compute radiative forcing of a small smoke plume at the surface, TOA, and within the atmosphere
4:30 PM	<a href="#">Boyan Petkov</a> - ISAC CNR - Variations in solar UV irradiance and ozone column at Concordia and Mendel Antarctic stations
<b>ALBEDO</b>	
4:50 PM	<a href="#">Christian Lanconelli</a> - ISAC CNR - Spectral and broadband snow albedo measurements at Dome-C and Ny-Ålesund
5:10 PM	<a href="#">Crystal Schaaf</a> - U Mass Boston - Evaluation of MODIS, VIIRS, and Landsat albedos at BSRN sites and development of CEOS/WGCV/LPV albedo ECV protocols

## Wednesday, September 10, 2014

<b>RADIOMETER IMPROVEMENT</b>	
9:00 AM	<a href="#">Julian Groebner</a> - PMOD WRC - IR reference
9:20 AM	<a href="#">Klaus Behrens</a> - DWD - Comparison of different types of pyrgeometers with the IRIS radiometer in Lindenberg
9:40 AM	<a href="#">Jose Celso Thomaz</a> - INPE- An application of ordinary least squares to evaluate the correction factor (k) on pyrgeometer measurements at the National Organization Environmental Data System for the Energy Sector (SONDA NETWORK -MEASUREMENTS)
10:00 AM	<a href="#">Aron Habte</a> -NREL - Evaluating solar resource data obtained from multiple radiometers deployed at NREL
10:20 AM	<a href="#">Fred Denn</a> -NASA- Comparison of top of atmosphere voltages at Mauna Loa, Hawaii, and at the Clouds and the Chesapeake Lighthouse BSRN site
<b>EVALUATION</b>	
11:10 AM	<a href="#">Nicole Hyett</a> - BOM - Pyranometer Calibratrions - with examples from the Australian stations in the BSRN
11:40 AM	<a href="#">Laurent Vuilleumier</a> -METEOSWISS - Performance evaluation of radiation sensors for the solar energy sector
12:00 PM	<a href="#">Ping Wang</a> -KNMI - Balloon measurements of light profiles in cloudy atmospheres
12:20 PM	<a href="#">Sylvio Luiz Mantelli Neto</a> - INPE - LEPTEN -Qualitative aspects of cameras systems used on synoptic observations systems (SOS)
12:40 PM	<a href="#">Julian Groebner</a> - PMOD WRC - A new spectroradiometer for high resolution aerosol optical depth
<b>WGs</b>	
2:00 PM	Working groups meet
2:20 PM	Working groups meet

## Thursday, September 11, 2014

<b>MODELS, SATELLITES AND RAD FORCING</b>	
9:00 AM	<a href="#">V Ramaswamy</a> - NOAA - Surface radiative fluxes, hydrological cycle, and climate
9:20 AM	<a href="#">Martin Wild</a> - ETH - Surface radiative fluxes in BSRN and in climate models
9:40 AM	<a href="#">Chuck Long</a> - PNNL - Climatology of surface radiation, clouds, and cloud radiative effects for the ARM TWP sites
10:00 AM	<a href="#">Taiping Zhang</a> - NASA Langley- Quality-control and processing of the BSRN data and its application in validating the NASA GEWEX SRB global horizontal irradiance and model derived direct normal irradiance
10:20 AM	<a href="#">Chuck Long</a> - PNNL - Evidence of clear sky daylight whitening: Are we already conducting geoengineering?
11:00- AM	<b><u>POSTER SESSION</u></b>
	<b>DATA ISSUES</b>
2:30 PM	<a href="#">Gert Koenig-Langlo</a> - AWI - Archive status and Neumayer, Antarctica
2:50 PM	<a href="#">Jordi Badosa</a> - LMD/IPSL - New BSRN data quality control developed and applied at SIRTa Observatory
3:10 PM	<a href="#">Wouter Knap</a> - KNMI - BSRN Station Cabauw: work flow from measurement to archive
3:30 PM	<a href="#">Anatoly Tsvetkov</a> - WRDC/MGO - Clear sky BSRN and GAW global data peculiarities
4:10 PM	<a href="#">Joergen Koenigs</a> - HUKSEFLUX - Calibration and measurement uncertainty estimation of radiometric data (from ASTM International Standard perspective)
4:30 PM	<a href="#">Laurent Vuilleumier</a> - METEOSWISS - Accuracy of ground surface broadband shortwave radiation monitoring
	<b>WGs</b>
4:50 PM	Hyett - Uncertainties WG report
5:10 PM	Michalsky - Pyranometry, pyr heliometry, albedo WG report

## Friday, September 12, 2014

<b>WGS REPORTS</b>	
9:00 AM	<a href="#">Julian Groebner</a> - PMOD WRC - IR WG report
9:20 AM	<a href="#">Martial Haeffelin</a> - France - LMD/IPSL - Long term data sets WG report
9:40 AM	<a href="#">Gert Koenig-Langlo</a> - AWI - Archive WG report
10:00 AM	<a href="#">Chuck Long</a> - PNNL - Cold climate WG report
	<b>ADJOURN</b>
11:00 AM	BSRN Business Meeting* *WRR and WISG *Next meeting venue *Next project manager *Other items