

4th Sunspot Number Workshop
Locarno, Switzerland
19-23 May 2014

Monday, 19 May

Registration		0800-0900
Renzo Ramelli:	Welcome to Locarno & the 4 th SSN Workshop	0900-0910
Michele Bianda	History of sunspot observations at Specola	0910-0930
Jan Stenflo	The transition of the SSN from Zurich to Brussels in 1980	0930-0940
<i>Background and Context</i> Chair: Renzo Ramelli		
Ed Cliver	Why the SSN needs to be recalibrated	0940-0955
Frédéric Clette	SSN essentials	0955-1025
Juerg Beer/Ed Cliver	Reconstructing solar wind <i>B</i> : A parallel exercise	1025-1050
Break		1050-1120
<i>Is the Sunspot Number a Moving Target?</i> Chair: José Vaquero		
Christoph Kiess	Properties of sunspot umbrae in Cycle 24	1120-1150
Jan Alvestad	Parallel sunspot counts with SDO	1150-1220
Group Photo		1225
Lunch		1230-1400
Laure Lefèvre	Group-spot ratios during recent cycles	1400-1430
Ali Kilcik	Time variations of SS groups in cycles 22-24	1430-1500
Break		1500-1530
Javaraiah Javaraiah	Long-term variations in the numbers of small and large sunspot groups	1530-1600
Alexei Pevtsov	Long-term Trends in SS magnetic field strengths	1600-1630
Skype Presentations		
Peter Foukal	The Case of the Missing Greenwich Faculae	1630-1700
Fraser Watson	Multi-instrument Analysis of Sunspot Umbrae	1700-1730
Reception offered by City of Locarno at Castello Visconteo		1900

Tuesday, 20 May

In the Beginning Chair: Alexei Pevtsov

Rainer Arlt	Sunspot observations of Christoph Scheiner	0900-0930
José Vaquero	Pre-Maunder-Minimum observations	0930-1000
Break		1000-1030
Leif Svalgaard	Construction of the Wolf SSN series	1030-1130
David Willis	Group SS numbers from RGO (1874-1885)	1130-1200
Lunch		1200-1330

Reconciling the Group and International SS Numbers (1) Chair: Thierry Dudok de Wit

Marco Cagnotti	Specola long-term stability & sunspot drawing archive	1330-1400
Frédéric Clette	The Brussels period: 1981-Present	1400-1500
Open Discussion		1500-1530
Depart to Specola and Irsol		1530

Wednesday, 21 May

Reconciling the Group and International SS Numbers (2) Chair: Laure Lefèvre

Rainer Arlt	Schwabe's sunspot groups revisited	0830-0900
Leif Svalgaard	Variations of the spot/group ratio	0900-0930
Marco Cagnotti	Effect of weighting on the international SS number	0930-1000
Break		1000-1030
Leif Svalgaard	The Koyama backbone: 1924-2014	1030-1100
David Hathaway	Schwabe to Waldmeier: 1826-1980 reprised	1100-1200
Open Discussion		1200-1230
Lunch		1230-1345
Depart for excursion to Brissago Islands		1345

Thursday, 22 May

Paolo Ambrosetti	The Global Climate Observing System	0900-0915
<i>Reconciling the Group and International SS Numbers (3)</i> Chair: Rainer Arlt		
Leif Svalgaard	Staudach(er)'s backbone: 1716-1825	0915-0945
Open Discussion		0945-1015
Break		1015-1045
José Vaquero/Ed Cliver	From Galileo through the Maunder Minimum	1045-1145
Open Discussion		1145-1215
Lunch		1215-1400
<i>The Complete (Preliminary) SS Number Series: 1610-Present</i> Chair: David Hathaway		
Frédéric Clette	Synthesis of SSN and GN corrections	1400-1500
Open Discussion		1500-1530
Break		1530-1600
<i>Dealing with Uncertainty</i> Chair: Rodney Howe		
Thierry Dudok de Wit	Noise properties & uniformity in the SSN records	1600-1630
Thierry Dudok de Wit	Grey sheep: How to treat contributions from SS observers whose data are noisy or anomalous	1630-1700
Giuliana de Toma (S)	On weakening magnetic spot magnetic fields	1700-1730
Social Dinner at the Hotel Ramada La Palma		1900

Friday, 23 May

A Look Ahead Chair: Margit Haberreiter

Roman Brajša	Predicted/observed characteristics of cycle 24	0830-0850
Claus Froehlich	TSI reconstruction, 1915 – present	0850-0920
Pavel Hejda	Prague Magnetic Records, Digitization & Use	0920-0940
José Vaquero	Sunspot archive at Universidad de Extremadura	0940-1010
Break		1010-1025

Technical aspects and summary Chair: Ed Cliver

Frédéric Clette	Technical Considerations (monthly & daily values, the factor of 0.6, computation of monthly averages, publication plan/authorship, posting the new series on the SIDC website, maintenance of the group SSN, IAU resolution, updated version (S ₁₄ ?) ...)	1025-1130
Break		1130-1145
Jan Stenflo	Workshop summary & critique	1145-1215
Renzo Ramelli	Farewell	1215