

Leif Svalgaard

LIST OF SELECTED PUBLICATIONS AND PRESENTATIONS

- 127. Svalgaard, L., Two Centuries Space Weather, 28 May 2010, Birkeland Workshop, Tromsø, Norway, 2010 (Invited talk).**
- 126. Svalgaard, L., Does The Sun Vary Enough, 27 May 2010, Birkeland Workshop, Tromsø, Norway, 2010 (Invited talk).**
125. Svalgaard, L., PMOD TSI, SOHO keyhole effect, and possible degradation over time, May 2010, Keystone, CO, 2010.
124. Svalgaard, L., Heliospheric Magnetic Field 1835-2010, May 2010, Keystone, CO, 2010.
- 123. Svalgaard, L., Predicting the Solar Cycle (SORCE 2010), May 2010, Keystone, CO, 2010 (Invited talk).**
- 122. Cliver, E. W. & L. Svalgaard, Solar Drivers of Cosmic Ray Modulation, ISSI CR Modulation, 12-16 April, Bern, 2010. (Invited talk).**
121. Svalgaard, L. & H. S. Hudson, The Solar Radio Microwave Flux and the sunspot Number, American Geophysical Union, Fall Meeting 2009, San Francisco CA, abstract #SH13C-03, 2009.
120. Svalgaard, L., Rudolf Wolf Was Right, Seminar at UC Berkeley, Space Science Laboratory, Dec. 2009.
119. Hudson, H. S., L. Svalgaard, K. Shibasaki, & K. Tapping, Microwave fluxes in the recent solar minimum, Hinode Science Meeting, Tokio, Dec, 2009
118. Brajša, R., H. Wöhl, A. Hanslmeier, G. Verbanac, D. Ruždjak, E. W. Cliver, L. Svalgaard, & M. Roth, A prediction for the 24th solar cycle, Cent. Eur. Astrophys. Bull. 33(1), 95-98, 2009.
117. Svalgaard, L. & H. Hudson, The Solar Radio Microwave Flux and the sunspot number, Sept. 2009, SOHO-23, 2009.
116. Cliver, E. W. & L. Svalgaard, A Forecast for Cycle 24 based on fluctuations above the floor in the solar wind, Sept. 2009, SOHO-23, 2009.
- 115. Svalgaard, L., Updating the Historical Sunspot Record, Sept. 2009, SOHO-23, 2009 (Invited talk).**
114. Svalgaard, L., Reconstructing Solar Activity 1700-2009, Solar Analogs II, Sept. 2009, Lowell Obs., Flagstaff AZ, 2009.
- 113. Svalgaard, L., Predicting the Solar Cycle, Solar Analogs II, Sept. 2009, Lowell Obs., 2009 (Invited talk).**
- 112. Svalgaard, L., Geomagnetic Indices, Aug. 2009, Sopron, IAGA 11th Scientific Assembly, Abstract H02-FRI-O1430-0550. 2009 (Invited talk).**
111. Hudson, H & L. Svalgaard, Where are the flares? RHESSI Science Nuggets, http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Where_are_the_flares, 2009.
110. Svalgaard, L. & L. Bertello, The Waldmeier Discontinuity, Bulletin American Astronomical Society, vol 41 (2), Abstract 15.13, page 837, 2009.

109. Svalgaard, L. & H. Hudson, Cycle 24 – don't panic yet! RHESSI Science Nuggets, http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Cycle_24_-_don't_panic_yet!, 2009.
108. Cliver, E. W. & L. Svalgaard, Towards a Consensus View of the Heliospheric Magnetic Field Strength Since 1900, American Geophysical Union, Fall Meeting 2008, San Francisco CA, abstract #SH51A-1593, 2008.
107. Svalgaard, L. & K. H. Schatten, Predicting Solar Cycle 24 (Using Solar Polar Fields), American Geophysical Union, Fall Meeting 2008, San Francisco CA, abstract #SH51A-1593, 2008.
- 106. Svalgaard, L., Recalibration of the Sunspot Number and Consequences for Predictions of Future Activity and Reconstructions of Past solar Behavior, Solar Activity During the Onset of Solar Cycle 24, Dec. 2008, Napa CA 2008 (Plenary talk).**
105. Svalgaard, L., Long-term Variations of Open Flux in the Heliosphere. Seminar SPRG, University of California, Berkeley, CA, 2008.
- 104. Svalgaard, L., Observatory Data: a 170-year Sun-Earth Connection, XII IAGA Observatory Workshop, June 2008, Golden CO, 2008. (Keynote).**
- 103. Svalgaard, L., IHV and IDV Indices: Derivation and Stability, American Geophysical Union, Spring Meeting 2008, Ft. Lauderdale FL, abstract #GP53A-07, 2008. (Invited).**
102. Svalgaard, L., Sunspot Number Calibration by the “Magnetic Needle” Makes Sense, American Geophysical Union, Spring Meeting 2008, Ft. Lauderdale FL, abstract #SP23A-07, 2008.
101. Svalgaard, L., Long-term Variations of Open Flux in the Solar Corona (The Open flux Has Been Constant Since at Least 1840s). Seminar, University of California, Los Angeles CA, 2008.
100. Svalgaard, L. Consensus Heliospheric Magnetic Field during the last ~120 years, Seminar, Lockheed-Martin Solar and Astrophysical Laboratory, Palo Alto CA, 2008.
99. Svalgaard, L., Reconstructing TSI from Heliospheric Magnetic Field as Deduced by McCracken from Cosmic Ray modulation, SORCE Meeting Feb. 2008, Santa Fe NM, 2008.
98. Brajša, R., H. Wöhl, D. Ruždjak, B. Vršnak, G. Verbanac, L. Svalgaard, & J.-F. Hochedez, On the solar rotation and activity, *Astronomische Nachrichten*, vol. 328(10), 1013-1015, doi:10.1002/asna.20710867, 2007.
97. Svalgaard, L., (No?) Century-scale Secular Variation in HMF, EUV, or TSI, American Geophysical Union, Fall Meeting 2007, San Francisco CA, abstract #GC21B-0351, 2007.
96. Cliver, E. W. & L. Svalgaard, Origins of the Wolf Sunspot Number Series: Geomagnetic Underpinning, American Geophysical Union, Fall Meeting 2007, San Francisco CA, abstract #SH13A-1109, 2007.
95. Svalgaard, L. & E. W. Cliver, Comment on "The heliomagnetic field near Earth, 1428-2005" by K. G. McCracken, *Journal of Geophysical Research*, vol 112 (Rejected), doi:10.1029/2007JA012885, 2007.
94. Svalgaard, L., “Floors” in IMF, EUV, and therefore in TSI, (Climate And Weather of the Sun-Earth System) CAWSES Newsletter, vol. 4, #2, p.8, <http://www.bu.edu/cawses/documents/cawses-news-v4-n2.pdf>, 2007.
- 93. Svalgaard, L., The Open Flux Has Been Constant Since ~1840, Workshop on Solar, Heliospheric & Interplanetary Environment (SHINE) 2007, Whistler BC, 2007. (Invited).**

92. Cliver, E. W. & L. Svalgaard, Validation/Reconstruction of the Sunspot Number Record, 1841-2007, XXIV General Assembly, International Union of Geodesy and Geophysics (IUGG) July 2-13, Perugia, Italy, 2007.
91. Svalgaard, L. & E. W. Cliver, The InterHourly-Variability (IHV) Index of Geomagnetic Activity and its Use in Deriving the Long-term Variation of Solar Wind Speed, *Journal of Geophysical Research*, vol. 112, A10111, doi:10.1029/2007JA012437, 2007.
90. Svalgaard, L. & E. W. Cliver, Long-term Geomagnetic Indices and their Use in Inferring Solar Wind Parameters in the Past, *Advances in Space Research*, vol. 40(7), 1112-1120, doi:10.1016/j.asr.2007.06.066, 2007.
89. Svalgaard, L., Calibrating the Sunspot Number using 'the Magnetic Needle', (Climate And Weather of the Sun-Earth System) CAWSES Newsletter, vol. 4, #1, http://www.bu.edu/cawses/calbrating_sunspot_number_using_mag_needle.pdf, 2007.
88. Svalgaard, L., Calibrating Sunspot Numbers Using Variations of 'the Magnetic Needle', American Geophysical Union, Spring Meeting 2007, Acapulco, Mexico, abstract #SH54B-02, 2007.
87. Svalgaard, L. & E. W. Cliver, A Floor in the Solar Wind Magnetic Field, *The Astrophysical Journal (Letters)*, vol. 661, L203-L206, doi:10.1086/518786, 2007.
86. Svalgaard, L., A Floor in the Open Flux IMF Strength: Constant in Time (Centuries?) and Space (Latitude), American Geophysical Union, Fall Meeting 2006, San Francisco CA, abstract #SH21A-0313, 2006.
- 85. Svalgaard, L., E. W. Cliver, & Y. Kamide, Polar Fields and Solar Cycle 24 (Observational Study), Presentation for 'NOAA Solar Cycle 24 Prediction Panel', Oct. 2006, Boulder CO, 2006.**
- 84. Svalgaard, L. & E. W. Cliver, Physics-based Long-term Geomagnetic Indices, 2nd Space Climate Symposium, 13-16 Sept. 2006, Sinaia, Romania, 2006. (Invited).**
- 83. Cliver, E. W. & L. Svalgaard, The Solar Wind During Grand Minima, 2nd Space Climate Symposium, 13-16 Sept. 2006, Sinaia, Romania, 2006. (Invited).**
- 82. Svalgaard, L., Polar Fields, Large-Scale Fields, 'Magnetic Memory', and Solar Cycle Prediction, at Workshop on Solar, Heliospheric & Interplanetary Environment (SHINE) 2006, Zermatt UT, 2006. (Invited).**
- 81. Svalgaard, L., How Good (or Bad) Are the Inner Boundary Conditions for Heliospheric Solar Wind Modeling? Workshop on Solar, Heliospheric & Interplanetary Environment (SHINE) 2006, Zermatt UT, 2006. (Invited).**
80. Svalgaard, L. & E. W. Cliver, Interplanetary Magnetic Field Strength 1902-1913, American Geophysical Union, Spring Meeting 2006, Baltimore MD, abstract #SH51A-06, 2006.
79. Martini, Daniel; Mursula, Kalevi & Svalgaard, L. Correcting the long-term geomagnetic activity estimated from Eskdalemuir station data. - General Assembly 2006 of the European Geosciences Union, Vienna, Austria, 02-07 April 2006. *Geophysical Research Abstracts* vol. 8, 2006. s. EGU06-A-09668.
78. Svalgaard, L. & E. W. Cliver, A Calibration of POES Hemispheric Power Index and its Strong Linear Relation to the IHV Geomagnetic Activity Index, (poster), Space Weather Week 2006, Boulder CO, 2006.
77. Svalgaard, L. & E. W. Cliver, Cycle 24: Smallest in 100 years or "What we think we know about the sun's polar fields", (poster), Space Weather Week 2006, Boulder CO, 2006.

76. Svalgaard, L. & E. W. Cliver, Reply to the comment by M. Lockwood et al. on “The IDV index: Its derivation and use in inferring long-term variations of the interplanetary magnetic field”, *Journal of Geophysical Research*, vol. 111, A09110, doi:10.1029/2006JA011678, 2006. [1]

75. Svalgaard, L., Derivation of Dst Index back to ~1900, in Conference on Earth-Sun System Exploration: Energy Transfer, Jan. 16-20, 2006, Kona HI, 2006. (Invited).

74. Svalgaard, L., Reconstruction of the Dst Index, American Geophysical Union, Fall Meeting 2005, San Francisco CA, abstract #SA12A-04, 2005.

73. Svalgaard, L., E. W. Cliver, & Y. Kamide, Sunspot Cycle 24: Smallest Cycle in 100 Years? Large-scale Structures and their Role in Solar Activity ASP Conference Series, Vol. 346, Proceedings of the Conference held 18-22 October, 2004, Sunspot, NM. Edited by K. Sankarasubramanian, M. Penn, and A. Pevtsov, p.401, 2005.

72. Svalgaard, L. & E. W. Cliver, Prediction of Solar cycle 24, Workshop on Solar Activity: Exploration, Understanding and Prediction, Sept. 19-21, Lund, Sweden, 2005 (Invited).

71. Svalgaard, L. & E. W. Cliver, The IDV-Index: Its Derivation and Use in Inferring Long-term Variations of the Interplanetary Magnetic Field Strength, *Journal of Geophysical Research*, vol. 110 (A12), A12103, doi:10.1029/2005JA011203, 2005. [2]

70. Svalgaard, L., Magnetograph Saturation: Comparison of WSO and SOLIS, American Geophysical Union, Spring Meeting 2005, New Orleans LA, abstract #SH07-360, 2005.

69. Svalgaard, L., Retrieving Old Geomagnetic Records, North American IHV Community Science Planning Workshop, 16-18 Feb. (poster), 2005, Boulder CO, 2005.

68. Svalgaard, L., E. W. Cliver, & Y. Kamide, Sunspot cycle 24: Smallest cycle in 100 years? *Geophysical Research Letters*, vol. 32(1), L01104, doi:10.1029/2004GL021664, 2005. [5]

67. Svalgaard, L. & M. Schulz, Semiannual Variation of Geomagnetic Activity: Protons or Photons? American Geophysical Union, Fall Meeting 2004, San Francisco CA, abstract #SM42A-02, 2004.

66. Cliver, E. W. & L. Svalgaard, The 1859 Solar-Terrestrial Disturbance and the Current Limits of Extreme Space Weather Activity, *Solar Physics*, vol. 224(1-2), p.407-422, doi:10.1007/s11207-005-4980-z, 2004. [3]

65. Le Sager, P. & L. Svalgaard, No increase of the interplanetary electric field since 1926, *Journal of Geophysical Research*, vol. 109(A7), A07106, doi:10.1029/2004JA010411, 2004. [1]

64. Escher, E. & L. Svalgaard, Asymmetry in the Rosenberg-Coleman effect around solar minimum revealed by wavelet analysis of the interplanetary magnetic field polarity data (1927-2002), *Geophysical Research Letters*, vol. 31(12), L12808, doi:10.1029/2004GL020228, 2004. [3]

63. Svalgaard, L., The Value of Old Geomagnetic Records towards Space Climatology, CAWSES Kickoff Meeting, June 16-18, 2004, Irigo, Atsumi, Aichi, Japan, 2004. (Invited).

62. Svalgaard, L., The Value of Old Geomagnetic Records, First International Symposium on Space Climate, June 20-23, 2004, Oulu, Finland, 2004 (Invited).

61. Cliver, E. W., L. Svalgaard, & D. F. Neidig, How big was the Carrington 1859 Flare? American Geophysical Union, Spring Meeting 2004, Toronto ON, abstract #SH43A-03, 2004.

60. Svalgaard, L., E. W. Cliver, & P. Le Sager, IHV: A new geomagnetic index,

Advances in Space Research, vol. 34(2), p.436-439, 2004. [7]

59. Cliver, E.W., L. Svalgaard, & A. G. Ling, Origins of the semiannual variation of geomagnetic activity in 1954 and 1996. *Annales Geophysicae*, vol. 22(1), p.93-100, 2004. [3]

58. Le Sager, P. & L. Svalgaard, Interplanetary Electric field and Solar Open Magnetic Flux: No Increase Since 1926, American Geophysical Union, Fall Meeting 2003, San Francisco CA, abstract #SH21B-0165, 2003.

57. Svalgaard, L. & E. W. Cliver, New Geomagnetic Index (IDV) Measuring Magnitude of Interplanetary Magnetic field, American Geophysical Union, Fall Meeting 2003, San Francisco CA, abstract #SH21B-0108, 2003.

56. Svalgaard, L., E. W. Cliver, & P. Le Sager, Determination of Interplanetary Magnetic Field Strength, Solar Wind Speed, and EUV Irradiance, 1890-Present. International Solar Cycle Studies Symposium, June 23-28, 2003, Tatranska Lomnica, Slovak Republic, Proceedings (ESA SP-535), 15, ed. A. Wilson. 2003, (Invited). [5]

55. Svalgaard, L., E. W. Cliver, & P. Le Sager, No doubling of the Sun's coronal magnetic field during the last 100 years, EGS-AGU - EUG Joint Assembly, Nice, France, 6-11 April 2003, abstract #7616, 2003.

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53. Cliver, E. W. & L. Svalgaard, Evidence for a Dominant Russell-McPherron/Rosenberg-Coleman Origin of the Semiannual Variation of Geomagnetic activity in 1954 and 1996, American Geophysical Union, Fall Meeting 2002, San Francisco CA, abstract #SM72B-0614, 2002.

52. Svalgaard, L., The Semi-annual Variation of Geomagnetic Activity. American Geophysical Union, Fall Meeting 2002, San Francisco CA, abstract #SM22B-06, 2002 (Invited).

51. Svalgaard, L., E. W. Cliver, & A. G. Ling, The semiannual variation of great geomagnetic storms, *Geophysical Research Letters*, vol. 29(16), 1765, doi:10.1029/2001GL014145, 2002. [1]

50. Svalgaard, L. & E. W. Cliver, An independent assessment of solar wind conditions circa 1900 based on data obtained by the Roald Amundsen Gjøa expedition, 34th COSPAR Scientific Assembly, Second World Space Congress, Houston, 10-19 Oct., 2002.

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42. Mayaud, P. N. & L. Svalgaard, Comment on 'Evidence for strong artificial components of the equivalent linear amplitude geomagnetic indices' by D. M. Bubenik and A. C. Fraser-Smith, *Journal of Geophysical Research*, vol. 83, June 1, p.2723-2724, Reply, p.2725, 1978.
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- 32. Svalgaard, L. & J. M. Wilcox, Structure of the extended solar magnetic field and the sunspot cycle variation in cosmic ray intensity, *Nature*, vol. 262, Aug. 26, p.766-768, 1976. [29]**
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