

List of Publications

/1/	P. Wegener, H. Krag, D. Rex, J. Bendisch, H. Klinkrad "The Orbital Distribution and Dynamics of Solid Rocket Motor Particle Clouds for an Implementation into the MASTER Debris Model", 32 nd COSPAR, July 12-19, 1998, Nagoya, Japan, published in Advances in Space Research, Vol. 23, No. 1 pp. 161-164, COSPAR, Pergamon, 1999
/2/	C. Wiedemann, J. Bendisch, H. Klinkrad, H. Krag, P. Wegener, D. Rex "Debris Modeling of Liquid Metal Droplets released by RORSATs", 49 th IAF Congress, paper IAA-98-IAA.6.3.03, September 28 – October 2, Melbourne, Australia, 1998
/3/	J. Bendisch, H. Klinkrad, H. Krag, D. Rex, H. Sdunnus, P. Wegener, C. Wiedemann "The consideration of non Fragmentation Debris in the MASTER Model", 49 th IAF Congress, paper IAA-98-IAA.6.3.04, September 28 – October 2, Melbourne, Australia, 1998
/4/	J. Henzler, C. Butzmühlen, H. Krag "Impact of a controlled GNSS Receiver Clock on GNSS Performance", ION-GPS Conference, Institute of Navigation, Satellite Division, September, Nashville, USA, 1998
/5/	J. Henzler, C. Butzmühlen, H. Krag "Influence of GNSS Receiver Clock Control Loops on Integrity Monitoring Algorithms", Deutscher Luft- und Raumfahrtkongress, 5.-8. Oktober, Bremen, 1998
/6/	H. Krag, J. Bendisch, P. Wegener, C. Wiedemann, D. Rex "The ESA Space Debris Model MASTER and the Debris Contribution by Solid Rocket Motor Slag", 8 th International Space Conference of Pacific-basin Societies (ISCOPS), June 23-26, Xi'an, China, 1999
/7/	H. Krag, "Der Einfluß von Schlacke-Partikeln aus Feststofftriebwerken auf die Raumfahrtmüll-Problematik", Vortrag zum Ludwig-Bölkow-Stiftungspreis, Proceedings of the DGLR Jahrestagung, 27.-30. September, Berlin, 1999
/8/	J. Bendisch, H. Klinkrad, H. Krag, X. Li, H. Sdunnus, P. Wegener, C. Wiedemann, D. Rex "Results of the Upgraded MASTER Model", 50 th IAF Congress, paper IAA-99-IAA.6.3.03, October 4-8, Amsterdam, The Netherlands, 1999
/9/	H. Krag, P. Beltrami_Karlezi, J. Bendisch, H. Klinkrad, D. Rex, J. Rosebrock, T. Schildknecht "PROOF - The Extension of ESA's MASTER Model to Predict Debris Detections", Acta Astronautica Vol. 47, Nos. 2-9, pp. 687-697, 2000
/10/	H. Klinkrad, J. Bendisch, K. D. Bunte, H. Krag, H. Sdunnus, P. Wegener "The MASTER-99 Space Debris and Meteoroid Environment Model" COSPAR 2000, B0.1-PE-0017, 16.-13. July, Warsaw, Poland, published in Advances in Space Research, vol. 28, no. 9, pp. 1355-1366, 2001
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/12/	H. Krag, J. Bendisch, H. Klinkrad, D. Rex, T. Rieger, J. Rosebrock, T. Schildknecht "Debris Model Validation and Interpretation of Debris Measurements using ESA's PROOF Tool", Acta Astronautica Vol. 48, No. 5-12, pp. 373-383, 2001
/13/	J. Bendisch, H. Klinkrad, H. Krag, P. Wegener, C. Wiedemann "Object Flux Characteristics due to Various Types of Debris Sources", paper IAA-00-IAA.6.5.01, 51 st International Astronautical Congress, Rio de Janeiro, Brazil, 2-6 October, 2000
/14/	C. Wiedemann, J. Bendisch, H. Krag, P. Wegener, D. Rex "Modelling of Copper Needle Clusters from the West Ford Dipole Experiments", paper 5.08, 3 rd European Conference on Space Debris, ESOC, Darmstadt, Germany, 19-21 March 2001
/15/	P. Wegener, H. Krag, J. Bendisch "Model Population Upgrades Based on Recent Observations", paper 5.10, 3 rd European Conference on Space Debris, ESOC, Darmstadt, Germany, 19-21 March 2001
/16/	H. Krag, M. Kahl, J. Bendisch, H. Klinkrad, T. Schildknecht "Space Based Observation of Small Debris Objects", paper 7.03, 3 rd European Conference on Space Debris, ESOC, Darmstadt, Germany, 19-21 March 2001
/17/	T. Schildknecht, R. Musci, M. Ploner, H. Krag "Optical Observation of Space Debris in the Geostationary Ring" paper 1.05, 3 rd European Conference on Space Debris, ESOC, Darmstadt,

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/18/	P. Wegener, J. Bendisch, H. Klinkrad, H. Krag, C. Wiedemann <i>"The Reference Population of the MASTER 2001 Model"</i> , paper IAA-01-IAA.6.4.07, 52 nd International Astronautical Congress, Toulouse, France, 1-5 October, 2001
/19/	J. Bendisch, H. Krag, P. Wegener <i>"The Future Debris Environment from LEO to GEO"</i> , paper IAA-01-IAA.6.6.03, 52 nd International Astronautical Congress, Toulouse, France, 1-5 October, 2001
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/24/	J. Bendisch, K. Bunte, H. Klinkrad, H. Krag, C. Martin, H. Sdunnus, R. Walker, P. Wegener, C. Wiedemann <i>"The MASTER-2001 Model"</i> , paper PEDAS1-B1.4-0016-02, COSPAR 2002, Houston, Texas, 10-19 October, 2002, published in Advances in Space Research, vol. 34, no. 5, pp. 959-968, 2004
/25/	M. Oswald, H. Krag, P. Wegener, B. Bischof <i>"Concepts for an Orbital Telescope Observing the Debris Environment in GEO"</i> , paper PEDAS-B1.4-0044-02, COSPAR 2002, Houston, Texas, 10-19 October, 2002, published in Advances in Space Research, vol. 34, no. 5, pp. 1155-1159, 2004
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/29/	A. Leonard, H. Krag, G. Lachapelle, E. Cannon, C. Huth, C. Seynat <i>"Impact of GPS and Galileo Orbital Plane Drifts on Interoperability Performance Parameters"</i> , Proceeding of the GNSS 2003 Conference, The European Navigation Conference, Graz, Austria, 22-25 April, 2003
/30/	D. Whittle, C. Seynat, C. Huth, H. Krag, A. Leonard <i>"Analysis of the Navigation Performance of a Combined GPS-Galileo receiver by Means of Simulations with the Galileo System Simulation Facility"</i> , Conference paper, 8 th ISU Annual International Symposium, International Space University, Strasbourg, France, 26-28 May, 2003
/31/	H. Krag, A. Leonard, P. Ranaudo, E. Blomenhofer <i>"Global Implications of GPS and Galileo RAAN Drifts on GNSS Performance"</i> , Annual Meeting Proceedings 2003, ION GPS GNSS, The Institute of Navigation, Portland, Oregon, 9-12 September, 2003
/32/	A. Leonard, H. Krag, E. Blomenhofer <i>"Impact of Orbital Precession on the Combined Galileo-GPS Performance"</i> , paper IAC-03-M.3.02, 54 th International Astronautical Congress, Bremen, Germany, 29 September - 3 October, 2003
/33/	A. Leonard, H. Krag, E. Blomenhofer <i>"Global Impact of GPS and Galileo Constellation Drifts on GNSS Performance"</i> , Proceedings of the 11 th IAIN World Congress, International Association of Institutes of Navigation, Berlin, Germany, 21-24 October, 2003
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/37/	H. Krag, H. Klinkrad, M. Oswald, S. Stabroth, C. Wiedemann, "Analysing the Risk Increase in LEO due to Recent Major Fragmentation Events", Proceedings of the 2 nd IAASS Conference, SP-645, ISBN : 92-9291-209-5, Chicago, USA, 14-16 May 2007
/38/	H. Krag, H. Klinkrad, J. R. Alarcón-Rodríguez, "Assessment of Orbit Uncertainties for Collision Risk Predictions at ESA", Proceedings of the 2 nd IAASS Conference, SP-645, ISBN : 92-9291-209-5, Chicago, USA, 14-16 May 2007
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/41/	H. Krag, H. Klinkrad, R. Jehn, J. Markkanen, L. Leushacke, "Detection of Small-Size Space Debris with the FGAN and EISCAT Radars", 7 th US/Russian Space Surveillance Workshop. Proceedings: Naval Postgraduate School Monterey, ISBN: 1606434209, California, 29 October - 2 November 2007
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/45/	H. Krag, "Designing a large ground-based Radar for Europe's future Space Surveillance System", DGLR-2008-531, DGLR Jahrestagung 2008, Darmstadt, Germany, 2008
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/49/	H. Krag, H. Klinkrad, R. Madde, G. Sessler, P. Besso, "Analysis of Design Options of a Large Ground-Based Radar for Europe's Future Space Surveillance System", IAC-08-A.6.5.04, 59 th International Astronautical Congress 2008, Glasgow, Scotland, 29 September - 3 October 2008
/50/	O. Glaser, H. Krag, "Wandering "Performance Holes" in GNSS", Poster, ISPA 2008, Bonn, Germany, 14 -15 Oct 2008
/51/	H. Krag, H. Klinkrad, "Surveillance Radar Design Options as a Function of Cataloguing

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/52/	H. Krag, H. Klinkrad, R. Jehn, S. Flegel, T. Schildknecht, " <i>Conclusions from ESA Space Debris Telescope Observations on Space Debris Environment Modelling</i> ", 5 th European Conference on Space Debris, Darmstadt, Germany, 30 March – 2 April 2009, (ESA SP-672, July 2009)
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/54/	J. Markkanen, R. Jehn, H. Krag " <i>EISCAT Space Debris during the IPY – A 5000-Hour Campaign</i> ", Proc. 5 th European Conference on Space Debris, Darmstadt, Germany, 30 March – 2 April 2009, (ESA SP-672, July 2009)
/55/	G.M.A. Sessler, B. Smeds, H. Krag et al. " <i>Bi-Static Radar Measurements Using ESA's 15 Meter Ground Stations</i> ", Proc. 5 th European Conference on Space Debris, Darmstadt, Germany, 30 March – 2 April 2009, (ESA SP-672, July 2009)
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/70/	C. Wiedemann, S. Flegel, J. Gelhaus, M. Möckel, H. Klinkrad, H. Krag, P. Vörsmann, " <i>Possible NaK release from a TOPAZ reactor on board Cosmos 1818</i> ", 38th COSPAR Scientific Assembly, Bremen, Germany, paper PEDAS1-0019-10, 18-25 July 2010
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/72/	H. Krag, T. Flohrer, H. Klinkrad " <i>Major Design Drivers for LEO Space Surveillance in Europe and Solution Concepts</i> ", presented at the 38th COSPAR Scientific Assembly, Bremen, Germany, p.4, 18-25 July 2010
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/80/	N. Sánchez-Ortiz, H. Krag, " <i>Required Accuracy for a Reliable Space Objects Collision Avoidance Assessment within the European Space Situational Awareness System</i> ", European Space Surveillance Conference, Madrid, Spain, 7-9 June 2011
/81/	E. Olmedo-Casal, N. Sánchez-Ortiz, N. Guijarro-López, G. Sessler, H. Krag, " <i>Cataloguing Capacity and Achievable Accuracy for the Low-altitude Orbital Regimes by Means of Radar Sensor within the Future European Space Situational Awareness System</i> ", European Space Surveillance Conference, Madrid, Spain, 7-9 June 2011
/82/	A. Hinze, A. Vananti, T. Schildknecht, H. Krag, " <i>Results from First Space Debris Survey Observations in MEO</i> ", European Space Surveillance Conference, Madrid, Spain, 7-9 June 2011
/83/	N. Sánchez-Ortiz, E. Olmedo-Casal, N. Guijarro-López, P. Keinänen, H. Krag, " <i>Cataloguing Capacity and Achievable Accuracy for the High-altitude Orbital Regimes by Means of Ground-based Optical Sensors within the Future European Space Situational Awareness System</i> ", Poster, European Space Surveillance Conference, Madrid, Spain, 7-9 June 2011
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/85/	B. Bastida Virgili and H. Krag " <i>Analyzing the criteria for a stable environment</i> ", AAS/AIAA

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/86/	M. Sciotti, P. Besso, T. Flohrer, H. Krag " <i>Low Earth Orbit objects tracking and orbit determination from ground-based phased array radar systems</i> ", Proceedings of the International Radar Symposium (IRS), pp 591 – 596, ISBN: 978-1-4577-0138-, Leipzig, Germany, 7-9 Sept. 2011
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/88/	T. Schildknecht, A. Vananti, J. Herzog, H. Krag, " <i>Results of Optical Surveys for Space Debris in MEO</i> ", 62 nd International Astronautical Congress, A6-1-3, Cape Town, South Africa, 3 -7 October 2011
/89/	M. Möckel, C. Wiedemann, S. Flegel, J. Gelhaus, P. Vörsmann, H. Klinkrad, H. Krag " <i>Using parallel computing for the display and simulation of the space debris environment</i> ", Advances in Space Research, vol. 48, no. 1, pp. 173-183, 2011
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/91/	E. Olmedo, N. Sánchez-Ortiz, N. Guijarro, J. Nomen, H. Krag, " <i>Survey-only optical strategies for cataloguing space debris objects in the future European space surveillance system</i> ", Advances in Space Research, vol. 48, no. 3, pp. 535-556, 2011
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