

# IAA Study Group Status Report

**Responsible Commission: A6 Space Debris Committee**

**Study Number and Title: SG5.14 “Space Debris Situation Report”**

**Short Study Description** (repeat from Study Group Proposal):

Reference status of the Space Debris problematic, acting as an update of the IAA Position Papers 1993 and Revision from 2001, taking into account the IAA Position Papers on Space Debris Mitigation (SG5.1) and on Space Debris Remediation (SG5.5). Available elements from on-going SG5.10 devoted to Policy, Legal and Economic Issues in Orbital Debris Removal will also be included.

**Progress in past six months:**

General revision of all the chapters following two rounds of comments.

Document revised internally to IAA Space Debris Committee by 5 members (Anselmo, Crowther, Kato, Pardini, Stokes)

Final Draft available and distributed to all members of the IAA SCD, for comments.

Final polishing expected during next meeting of IAA SDC, Saturday 24 September.

Official delivery to IAA secretariat for approval process during IAC in Guadalajara.

**Website Study Information update:** (please give any update regarding Study Group Membership, documents, Study Plan and Schedule):

		<u>Planned</u>	<u>Is today</u>
Co-Editors:	Darren McKnight & Christophe Bonnal		
Executive Summary	Darren McKnight	4 pages	3
Table of Contents	Christophe Bonnal	2 pages	2
1. Introduction, recall of scope and past studies:	Darren McKnight	4 pages	3
2. Present status:	Heiner Klinkrad , Holger Krag	10 pages	12
3. Measurements:	Thomas Schildknecht & Vladimir Agapov	10 pages	13
4. Space surveillance:	Christian Cazaux, Dave Finkleman, Fernand Alby, Dan Oltrogge	10 pages	16
5. Collision avoidance:	Christian Cazaux, Dave Finkleman, Fernand Alby, Dan Oltrogge	10 pages	6
6. Protection:	Frank Schäfer & Eric Christiansen	10 pages	13
7. Reentering space objects:	Holger Krag & Marlon Sorge	10 pages	16
8. Future environment:	Paula Krisko & Juan-Carlos Dolado-Perez	10 pages	11
9. Debris mitigation:	Manuel Metz & J-C. Liou	10 pages	9
10. Remediation:	Darren McKnight & Seishiro Kibe	10 pages	12
11. Legal:	Tanja Masson-Zwaan	10 pages	9
12. International aspects:	Charlotte Mathieu	6 pages	6
13. References & Standards:	Christophe Bonnal	7 pages	7
Appendixes		3 pages	3
		<u>126 pages</u>	<u>141</u>

Status:

Done:

First Draft in Toronto reviewed within the September meeting of the IAA Space Debris Committee

First complete draft in January 2015

First draft polishing following meeting in March 2015

Draft in July 2015, sent for initial reviewing by a few experts outside the contributors group

Final draft, to be reviewed during IAA Space Debris Committee meeting on Sept. 24<sup>th</sup>, 2016

Expected:

Delivery to IAA for Peer Reviewing after next meeting of IAA SDC

Effective publication expected by March meeting 2017

**Issues requiring resolution?** (recommend approach):

None

**Product Deliveries on Schedule?** (If modified explain rationale):

Expected to be delivered for IAA Peer Reviewing during IAC 2016

**Study Team Member Changes?** (List any Study Team Members that you wish to

Removal of Dr. Prasad who did not contribute

**Name of person providing Study Group Status** (Study Group Chair or Co-Chair):

Christophe Bonnal & Darren Mc Knight

**Status Report Date:**

Sep. 19<sup>th</sup>, 2016