

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:

Limited due to low participation no work at the occasion of Jerusalem IAC
Finalization of the paper ongoing

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

| Co-Editors: | | <u>Planned</u> | <u>Is today</u> |
|--|---|-----------------|-----------------|
| 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 | 11 |
| 3. Measurements: | Thomas Schildknecht & Vladimir Agapov | 10 pages | 6 |
| 4. Space surveillance: | Christian Cazaux, Dave Finkleman, Fernand Alby, Dan Oltrogge | 10 pages | 15 |
| 5. Collision avoidance: | Christian Cazaux, Dave Finkleman, Fernand Alby, Dan Oltrogge | 10 pages | 4 |
| 6. Protection: | Frank Schäfer & Eric Christiansen | 10 pages | 12 |
| 7. Reentering space objects: | Holger Krag & Marlon Sorge | 10 pages | 13 |
| 8. Future environment: | Paula Krisko & Juan-Carlos Dolado-Perez | 10 pages | 11 |
| 9. Debris mitigation: | Manuel Metz & J-C. Liou | 10 pages | 10 |
| 10. Remediation: | Darren McKnight & Seishiro Kibe | 10 pages | 12 |
| 11. Legal: | Tanja Masson-Zwaan | 10 pages | 9 |
| 12. International aspects: | Charlotte Mathieu & MYS Prasad | 6 pages | 5 |
| 13. References & Standards: | Christophe Bonnal | 7 pages | 7 |
| Appendixes | | 3 pages | 3 |
| | | <hr/> 126 pages | <hr/> 126 |

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
Improved draft end September 2015
Discussions in Jerusalem October 2015

Expected:

Final draft by March 22nd, 2016
Delivery to IAA for Peer Reviewing by July 2016

Issues requiring resolution? (recommend approach):

Still some paragraphs needing finalization + general upgrade of the document (figures, references...)

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

Expected to be delivered for IAA Peer Reviewing before Summer 2016

Study Team Member Changes? (List any Study Team Members that you wish to discontinue, and provide names plus contact coordinates of any Members you wish to add on the second page of this Study Update form.) Note: Complete contact information including email, tel. and fax must be provided for all additions. Only Members with complete contact information will be listed and receive formal appointment letters from the IAA Secretariat.)

No

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

Christophe Bonnal & Darren Mc Knight

Status Report Date:

Feb. 29th, 2016

Study Team Membership Changes

None