

## IAA Study Group Status Report

**Responsible Commission:** Commission 4. "Space System Operation & Utilization"

**Study Number and Title:** 4.9. INTERNATIONAL AEROSPACE SYSTEM FOR MONITORING OF GLOBAL GEOPHYSICAL PHENOMENA AND FORECASTING OF NATURAL AND MAN-CAUSED DISASTERS

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

Research of possibilities to decrease the dangerous and negative consequences of global geophysical phenomena, natural and man-caused disasters with use of up-to-date and advanced aerospace facilities and technologies of monitoring.

**Progress in past six months:**

1. Resolution of Study Group 4.9 was signed by its members.

2. During the period of November 2 – 4, 2009 in Limassol (the Republic of Cyprus) The First International Specialized Symposium «SPACE AND GLOBAL SECURITY OF HUMANITY» took place. The Symposium organized by the International Academy of Astronautics (IAA), Russian Academy of Cosmonautics named after K.E. Tsiolkovsky (RACTs) and International Association ZNANIE met with widespread support from several UN organizations, National Space Agencies, Government and Parliament of the Republic of Cyprus, Russian Foreign Policy Department, non-government organizations. During Symposium the IGMASS' project received total approval by its participants from 18 countries including Belarus, Canada, Cameroon, France, Georgia, Germany, Italy, Kazakhstan, Kenya, Kyrgyzstan, Latvia, Myanmar, Pakistan, Romania, Russia, Slovenia, USA, Ukraine.

The Symposium's participants came to the conclusion that IGMASS has to use all achievements in the field of monitoring of the Earth environment by means of space, aero and ground facilities. At that, up-to-date technical and technological developments and tools of space monitoring give conceptually new opportunity to contribute to solve extremely complex problems in the interesting of prediction and prevention of the natural and man-caused disasters. Along with IGMASS it must be taken technical and informational advantages of the national (China, France, India, Italy, Russia, USA, Japan and others) and the international (GEOSS, GMES, DMC, Sentinel Asia, Charter Disaster, SPIDER-UN and others) systems and programmes which make a significant contribution to the development process of providing the Earth monitoring and disaster information in various regions on the Earth.

3. During The First International Specialized Symposium «SPACE AND GLOBAL SECURITY OF HUMANITY», in which more than half of all SG 4.9 members took part, for the purpose of further coordination of IGMASS' project it was taken decision to establish international management committee of IGMASS.

4. Letters to more than 60 including National Space Agencies were sent with proposal to join IGMASS' project and to enter into international management committee of IGMASS.

5. IGMASS' project was presented at 47<sup>th</sup> Session of the Scientific and Technical Subcommittee of the UN COPUOS in Vienna, in February 2010.

6. Address to Secretary General of UN about the International Aerospace System for Monitoring of Global Geophysical Phenomena and Forecasting of Natural and Man-Caused Disasters» was prepared and is ready to be sent to Secretary General of UN.
7. Draft of IGMASS concept was developed for its further discussion and approval at The Second International Specialized Symposium «SPACE AND GLOBAL SECURITY OF HUMANITY» in Riga, Latvia, on July 5 – 8, 2010.
8. The preparation for The Second International Specialized Symposium «SPACE AND GLOBAL SECURITY OF HUMANITY» that has to be held in Riga, Latvia, on July 5 – 8, 2010 is begun.
9. Creation of data base of technologies to forecast the natural disasters is started.

**Website Study Information up to date?**

1. Resolution of Study Group 4.9 signed by its members (please, put this document instead of one on IAA web site).
2. Resolution of The First International Specialized Symposium «SPACE AND GLOBAL SECURITY OF HUMANITY».
3. Address to to Secretary General of UN (please, put this document instead of one on IAA web site).
4. Presentation of the Co-Chair of SG 4.9 Prof. Valery Menshikov at the 47<sup>th</sup> Session of the Scientific and Technical Subcommittee of the UN COPUOS in Vienna, in February 2010.
5. Draft of IGMASS' concept.
6. Perminov A.N., Menshikov V.A. Space and Security of Humanity.
7. Information Letter about The Second International Specialized Symposium «SPACE AND GLOBAL SECURITY OF HUMANITY» (please, put this information to the Calendar on the IAA web site as well).

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

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

In accordance with schedule submitted in for Forming an IAA Study Group

**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.)

**MEMBERSHIP LIST OF STUDY GROUP 4.9 – No changes**

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

Co-Chair of Study Group Prof. Valery MENSNIKOV

**Status Report Date: March 12, 2010**