

IAA Study Group Status Report

Responsible Commission:

Commission 1: Space Physical Sciences.

Study Number and Title:

SG 1.8 Global Satellite System for monitoring and forecasting of the Earth seismic activity.

Short Study Description (repeat from Study Group Proposal):

Identification of characteristics of the observed from space phenomena occurring on the surface, in the atmosphere and ionosphere of the Earth, which would allow with sufficient degree of authenticity to find responses to the following key questions: where, when and how strong the earthquake will be.

Establishment of designing and engineering principles of the global satellite system for monitoring those characteristics, determination of the system architecture and necessary composition of scientific instrumentation, development of approaches to conducting measurements and processing of the acquired data.

Progress in past six months:

Preliminary materials of final study report's sections were obtained from the members of study group:

- *Seismic activity precursors*
- *Theoretical study of mechanisms of generation and distribution of earthquake precursors*
- *Analysis of satellite data on possible earthquake precursors*
- *Principles of designing and operation of the satellite system for seismic activity monitoring and forecasting.*

Preliminary materials of final study report's sections were analyzed and generalized.

Preliminary draft of final report was developed.

Preliminary draft of final report was sent to the study group members for their consideration and guidance exposure.

Website Study Information up to date? (Study Group Membership, Study Plan and Schedule):

Proposal for Forming an IAA Study Group SG 1.8, Study Group Membership.

Issues requiring resolution? (recommend approach):

The absence of consecutive space observation and measurements data, which could confirm any explanations of mechanisms of generation and distribution of earthquake precursors.

It is offered to creation and launch an experimental satellite with scientific instruments for monitoring of atmosphere and ionosphere.

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

Not all members of the study group provided materials with the first results of their researches so far.

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.)

There are no changes.

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

Degtyarev Olexandr V.

Status Report Date:

August 29, 2014