

IAA Study Group Status Report

Responsible Commission:

COMMISSION 4

Study Number and Title:

SG 4.20

International Cooperation on Remote Sensing in Earthquake Emergency Response

Short Study Description (repeat from Study Group Proposal):

In recent years, earthquake emergency response experiences, such as Wenchuan and Haiti earthquakes, indicate that it is necessary to bring together different satellite resources, including remote sensing satellite, communication satellite and navigation satellite, to support the earthquake emergency rescue. It also highlights the importance of international cooperation on satellite resources, which can help us to assign the distribution of earthquake emergency rescue resource, and to reduce the loss of life and property of the affected areas. An effective coordination policy will be established, which enables better coordinated remote sensing, communication and navigation satellite systems among different countries, so that technical capabilities will be better utilized and experts all over the world can be efficiently gathered after a devastating earthquake. The advantages will complement each other and provide emergency support for future strong earthquakes.

Overall Goal:

To propose solutions to form an international collaborative mechanism and to exchange remote sensing products of seismic disaster for earthquake emergency response.

Progress in past six months:

1. Completed the first draft of the final report.
2. Discussed the key issues of geosynchronous orbit satellites for emergency response to heavy earthquakes.
3. Developed an earthquake damage information extraction method based on deep learning.

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

None

Issues requiring resolution? (recommend approach):

None

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

Yes.

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.)

None.

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

Professor Jingfa ZHANG, Study Group Secretary

Status Report Date:

Sep. 8th, 2018