

EARTH OBSERVATION SYMPOSIUM (B1)
International Cooperation in Earth Observation Missions (1)

Author: Dr. Min Wei
China Academy of Space Technology (CAST), China, wei-min@263.net

APPLICATION OF SPATIAL TECHNOLOGIES IN THE FIELD OF DISASTER REDUCTION AND
EARTH OBSERVATION COOPERATION

Abstract

In the past 30 years, China has made great achievements in spatial technologies development and application. Remote sensing, geography information system, and global positioning system are employed to monitor and predict various disasters including flood, drought, fire, snow disaster, red tide, typhoon, landslide, sand storm, and so on. It is extremely important to strengthen the activity of cooperation and data share between earth observation departments different units and research groups of China for improving the capability of national disaster reduction in China. To realize large scale, dynamic, all-weather, real time earth observation and monitoring of disaster, China has launched HJ-1A and HJ-1B satellites since last year and will carry out a moonlet constellation composed of optical satellites and SAR satellites in the near future. Meanwhile, ground-based system and application system will also be constructed. A space-ground integrated framework for disaster relieving, decision - making, and managing is expected in the future development.