

66th International Astronautical Congress 2015

26th IAA SYMPOSIUM ON SPACE AND SOCIETY (E5)
Space Assets and Disaster Management (5)

Author: Mr. Yusuke Muraki
Japan Aerospace Exploration Agency (JAXA), Japan, muraki.yusuke@jaxa.jp

Mr. Tadayoshi Yahata
Asian Development Bank (ADB), The Philippines, tyahata@adb.org

SPACE-BASED TECHNOLOGY APPLICATIONS FOR DISASTER MANAGEMENT IN ASIAN
DEVELOPMENT BANK PROJECTS

Abstract

This paper introduces the capacity development projects to support developing countries in Asia and the Pacific in applying space-based technology conducted by Asian Development Bank (ADB) with the support of Japan Aerospace Exploration Agency (JAXA).

ADB is a regional development bank to facilitate economic development and poverty reduction in development member countries in Asia and the Pacific. Based on understanding that the earth observation is useful for the development of member countries in various sectors including disaster risk management, ADB has been using EO applications actively and became a member of Sentinel Asia in 2012.

From April 2012 to March 2015, ADB with the support of JAXA conducted the regional capacity development project entitled "Applying Remote Sensing Technology in River Basin Management". This project supported flood management agencies in Bangladesh, Philippines and Viet Nam to apply satellite-based rainfall data.

From April 2015, ADB with the support of JAXA will conduct the regional capacity development project entitled "Applying Space-Based Technology and Information and Communication Technology to Strengthen Disaster Resilience". This project will support Armenia, Bangladesh, Philippines and Fiji to introduce satellite-based damage assessment and GPS-equipped mobile phones for data collection for disaster management at the local level.

This paper will introduce the lessons learned and work plan of these projects and discuss how space assets can help disaster management in developing countries.