

EARTH OBSERVATION SYMPOSIUM (B1)
Earth Observation Data Management Systems (4)

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ADVANCES SPACE TECHNOLOGY AS ADAPTATION FACTOR FOR HUMAN BENEFITS

Abstract

Recent innovations and advances in space science and technology have dramatically changed the nature and structure of space-related development applications in recent years, making space a more versatile and flexible tool for the development community. Much has been accomplished in this area, but little is known about these successes that is availability of wide applications in the needed areas of human society. The considerable efforts needed to prepare for climate-related impacts and the time required for agriculture, forestry and other systems to adapt the crucial point. Success depends on factors relating to biology, ecology, technology and management regimes. An identification of the adaptation factors would be an excellent way for significant and valuable contribution in adaptation to climate change for rural community in such developing countries as mine. It is obvious that there is a highly need for acquisition of appropriate processed data for the indicated purposes and the main issue with further sharing of data among the interested sites who needs for this data. Undoubtedly it is require acting for helping of natural resources, environment, towns and cities to adapt to the effects of any available changes. We should continue to develop crucial information to help our industries and communities adapt and provide guidance on effective action to cope with change impacts. The following information-related activities should be considered to make significance to the successful implementation of the adaptation process:

- knowledge management through thematic networks, development of best practices and promotion knowledge exchange;
- development of web tools and databases on the performance (lessons learned) of adaptation measures at national and regional levels.

The success of advances space technology applications in a variety of areas of our life depend of the degree use of those capacities. Integration of the capacity of the countries would be much better contributed for natural resources investigations, natural disaster, climate change, security and many other strictly important problems. Remote sensing and geographic information system (GIS) technologies provide an important source of data for adaptation to any factor impacts of available changes, for instance ecology, climate, technology and others for continuously monitoring. Based on the satellite data it can be mapped the terrain with a high spatial resolution less then one meter.