Development of ASTER Hot Spot Detection System using International Standards

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In this presentation, we propose a new design of ground data management system for earth observing satellite data archive, in order to achieve an alert system development for volcanic activities, forest fire, environment monitoring, etc. There are some major activities, such as MODIS Rapid Response. However, these system are usually maintained by organizations who has a ground data management system. Therefore, it is hard to construct such rapid monitoring system by research groups outside from ground data management system. In order to solve this inconvenient, we propose a design of ground data management system using international standards such as GeoRSS, WMS, WCS and WPS. In addition, we present ASTER hot spot detection system using international standards as an example implementation.

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