

Contribution to Sentinel Asia in Disaster Management by FORMOSAT Satellite Imagery

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Sentinel Asia is a voluntary and led by the Asia-Pacific Regional Space Agency Forum (APRSAF), which is one of GEO observers. Currently Sentinel Asia has 115 Joint Project Team (JPT) members since 2006. Including 98 organizations from 29 countries/regions and 17 international organizations. Taiwan joined this party through Taiwan Integrated Earth Observation System (TIEOS), joined by Taiwan Space Agency (TASA) as a Data Provider Node and Center for Space and Remote Sensing Research National Central University as a Data Analysis Node. Taiwan is located in Pacific Seismic Belt and is often hit by typhoon in summer season, therefor, when nature disasters occurred, TASA is not only planning and scheduling for FORMOSAT-5 but also request EOR from Sentinel Asia to collect satellite imagery for disaster analysis. TASA provide FORMOSAT-2 and FORMOSAT-5 imagery as Emergency Observation Request (EOR) for free support the assessment of the major natural disasters since 2010 to present. Till the end of 2022, TASA has supported 156 emergency events and submitted 508 imagery of satellite data, covering 29 countries. Furthermore, TASA also generate value added products of changing status monitoring according to disaster management cycle. The earth observation service proves that FORMOSAT imagery is playing an important role to contribute to disaster management in the Asia Pacific region and demonstrates that its effort to fight against natural disasters.

Keywords: Sentinel Asia, FOMOSAT, Disaster, TASA