

RICE CROP MONITORING IN THE MEKONG DELTA, VIETNAM USING RADAR REMOTE SENSING DATA

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Abstract: The paper presents initial research results of the Asia-Pacific Regional Space Agency Forum/ Space Applications For Environment (APRSAF/SAFE) project on rice monitoring using radar remote sensing data, COSMO-SkyMed and RADARSAT-2 acquired in 2013-2014. These data were used for rice mapping and estimating the production using a statistical model of rice growing areas at the technical demonstration site, An Giang province, the Mekong Delta, Vietnam. The results of the previous research studies using various SAR data such as ENVISAT ASAR, TerraSAR-X are also introduced. The results are quite good and prove to be a potential tool for rice production estimation in the Mekong Delta, Vietnam.

Keyword: SAR, Polarisation, Rice monitoring, Mekong Delta