

RICE CROP MONITORING IN THAILAND USING FIELD SERVER AND SATELLITE REMOTE SENSING.

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Rice is the staple food crop consumed by more than 50% of the world population. It supplies more calorie intake in developing countries than any other food in the world. Thailand is one of the top rice exporters in the world. Rice is the most important economic crop in Thailand with 3.7 million rice farm households. It is a major income source and nutrient for rural families. Accurate monitoring and mapping of the rice crop areas are critical for regional rice cropping/water managements and estimates of rice yield (Bridhikitti et al., 2012). Remote sensing does seem to be the most reliable measurement tool for accurate rice crop monitoring over large areas. This article presents the GISTDA-JAXA collaborative research activities to assess and monitor rice paddy in Thailand using Field server and satellite remote sensing.