Suggested Topics：3.Remote Sensing Applications

Climate/Environment, Coastal Zone

Paper Title：Research on the extraction accuracy improvement of mangrove forests

Author Names：Yuji Kuwahara, Teppei Ishiuchi, Hiromune Yokoki

Proposed presenter (s)：Yuji Kuwahara

Affiliation：Ibaraki University, Japan

Address/phone/email for all authors and presenters：

Yuji Kuwahara 4-12-1 nakanarusawa, Hitachi, Ibaraki, 316-8511 Japan,

+81-294-38-5261, kuwahara@mx.ibaraki.ac.jp

Teppei Ishiuchi 679-3 nishioka, uozumicyo, Akashi, Hyogo, 674-8501 Japan

+81-78-946-6177, ishiuchi@akashi.ac.jp

Hiromune Yokoki 4-12-1 nakanarusawa, Hitachi, Ibaraki, 316-8511 Japan,

+81-294-38-5219, yokoki@mx.ibaraki.ac.jp

Preference : poster presentation

Keywords：satellite image, monitoring, mangrove, climate change, adaptation,

Abstract:

Research on the extraction accuracy improvement of mangrove forests

Yuji Kuwahara，Teppei Ishiuchi and Hiromune Yokoki

The objective of this study is to improve of the extraction accuracy of mangrove area, Southeast Asia. Global warming and sea-level rise are projected to affect seriously on low-land area. Recently, the mangrove forest is important to decrease the damage which is received from storm surge and sea-level rise. Therefore, it was proposed that the extraction method of mangrove area which is combined rationing method and re-extraction method based on the growth characteristic of mangrove. However, it was a problem that the low accuracy is caused in the area where the characteristic of land cover was similar to the tidal zone. Then,, in this study, we proposed the method of correcting the distribution area by analyzing thegeographic onformation for the tidal area.