

Interactive comment on “Spatial heterogeneity in mangroves assessed by GeoEye-1 satellite data: a case-study in Zhanjiang Mangrove National Nature Reserve (ZMNNR), China” by K. Leempoel et al.

K. Leempoel et al.

kleempoe@ulb.ac.be

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1 - Why the title referred only to GeoEyes-1 satellite whereas others satellites have been used ?

Initially, the purpose of the study was to evaluate the usefulness of a geoeye image for supervised classification of mangrove species. We added the temporal part after observing the importance of aquaculture in the region. I agree the title should more reflect these two parts. We therefore propose the following title: “Dynamics in man-

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grove assessed by high resolution and multi-temporal satellite data: a case-study in Zhanjiang Mangrove National Nature Reserve (ZMNRR), P.R. China”

2 - From ligne 1 and along the text: the quotation of references doesn't follow one logical unit.

Response: We are surprised by this comment since we used a reference management software. We will check again before resubmission but so far we do not see any problem.

3 - Ligne 24 (p. 2596): Formulae or formula ?

Formulae. Because we refer to several, we used the plural form.

4 - Page 2601: The mangrove area estimated by GeoEyes-1 satellite (775 ha) is too different with that of Ramsar (2000 ha). What could explain this gap ?

Response: The estimation by Ramsar may have included mudflats in its area calculation. Also, if it was based on coarse resolution satellite images, a precise delineation of mangrove is subject to important errors. Finally, they may have decided to draw a rough polygon on the entire area, thus comprising water channels and some mangrove patches in the south, clearly disconnected by aquaculture practices.

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