

All remarks were taken under consideration and put into the text which we sent in the attachment.

Referee 1:

1. Abstract and Introduction: The objective of this paper should be described explicitly. The introduction was changed.

2. Abstract: the last two lines should be moved to the method or acknowledgment section?

It has been done.

3. Introduction: Only a few references are cited in the former part of the present introduction. Some more references should be provided to the descriptions on the status of the wetland ecosystems as well as the preceding works and/or issues.

The references have been added.

4. Introduction: The second paragraph (P3L26-) may be moved to the last part of this section and explained with the objective of this study.

5. S1.1: More information should be provided on the test site; some important species, temperature and soil conditions, etc.

Done

6. S1.2: In general, the reliability of ground measurements is often critical, especially in natural ecosystems with large spatial variability. Hence, more detailed information on data acquisition methods/procedures should be provided. Please indicate the number of data points, accuracy, spatial heterogeneity, and representativeness of sampling. Reliability of ground measurements was described in section 1.2.

7. S.1.3: Many types of satellite images are used, but the specifications and data are not provided clearly; some of them are given later with some results. Such information should be provided in earliest opportunity in the Materials and Methods section maybe in a Table.

Added – table B.

8. S2: Methods/analytical procedures and results are mixed and inadequate. Calibration/validation procedures and accuracy on results are not clearly presented. Hence, it is difficult to evaluate the reliability of the mapping results. The methods and analytical procedures should be explained in more detail in separate sub-sections. Furthermore, explanations and discussion on results for Figures 2-8 are too short and inadequate.

There was no possibility to validate latent heat flux (Fig 3-4). Soil moisture index H/LE was validated in the section 2.2 – see tables B and C.

9. S3: Many results are presented in Figures 9-14, but more information should be provided in methods/analytical procedures to assure the results. As in S.2, calibration/validation procedures and accuracy on results are not clearly presented. Hence, it is difficult to evaluate the reliability of the mapping results. The methods and analytical procedures should be explained in more detail in separate sub-sections. Furthermore, explanations and discussion on results for Figures 9-14 are inadequate. More rationale and discussion for the results should be provided.

The description of figures has been developed. The data from ALOS HH, HV will be used for validation in 2010 as we did not have other image for validation except of used one (Figure 9,