

Interactive comment on “Flood frequency mapping of the middle Mahakam lowland area using satellite radar” by H. Hidayat et al.

Anonymous Referee #1

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The authors presented mapping of flooded open waters and of flooded vegetation from a series of ALOS radar images for the middle Mahakam lowland area.

The paper is well written and follows a clear and concise structure. The figures are of very high quality, which is something I do not come across too often. Background literature is well researched but there could have been slightly more reference to literature using L-band radar for flooded vegetation mapping, in particular the substantial work carried out by L. Hess for example, as some of her work is adopted in this paper (combining radar information with different LC classes for instance).

Some comments that should be addressed before the paper is acceptable are listed below:

- p. 11523, l. 13: what is meant by 7.8% partial agreement?
- p. 11527, l. 1-10: please give correlation values within the text here, rather than just saying high or poor correlation, also on p. 11528, l. 26 and p. 11529, l. 11
- p. 11528, l. 15: how does this range of dB compare to values for flood detection for L-band found in the literature? Also, similar comment on p. 11530, l. 5 in relation to flooded vegetation?
- it might be worth saying somewhere in the text how much of the total area was inundated how often (in %); in other words the authors should try and quantify what is expressed in color shades in Fig. 15

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 8, 11519, 2011.

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Interactive Discussion

Discussion Paper