

## ***Interactive comment on “EAGLE 2006 – multi-purpose, multi-angle and multi-sensor in-situ, airborne and space borne campaigns over grassland and forest” by Z. Su et al.***

### **Anonymous Referee #1**

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Reviewer’s comments to “EAGLE 2006 – multi-purpose, multi-angle and multi-sensor in-situ, airborne and space borne campaigns over grassland and forest” by Su et al.

This paper presented an overview to the field experiment plan, performance and preliminary results of the EAGLE2006, a large field campaign conducted in the Netherlands in 2006, several new research topics are also proposed and discussed. Algorithms on land surface variables estimates from multi-angle and multi-temporal satellite observation data have been developed, the protocol and users policy of the database are also given. This is a comprehensive description to the EAGLE2006, it is also a valuable reference works to conduct such kinds of field experiments and explore land

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surface process under different underlying surface. I suggest accepting it for publishing in this journal after a minor revision.

The specific comments:

Pg1810Ln17-19: the authors refer to that the CNR1 radiometer overestimates the surface radiation fluxes and the corrections have been done. But how to make such corrections or to which observations are compared are not provided.

Pg1811: the digits in the Fig. 5 are not readable. Is the Sky Arrow flux airplane itself has influence or disturbance to the flux measurements

Pg1811Ln27-29: the authors explain the energy imbalance caused by an overestimate of net radiation or an underestimate of soil heat flux. But you claimed that radiation fluxes have been corrected previously. Pg1812Ln5: the footprint of the LAS and EC measurements may cause the difference between the two systems on specific days.

Pg1833: the numbers in the Fig 8 are not readable.

Pg1835, 1837-1838: please use color or solid-dash lines re-draw the figures.

Pg1840-1841: please add slope and SDEV in the figures for a quick reading.

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 6, 1797, 2009.

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