

Interactive comment on “Influence of wave phase difference between surface soil heat flux and soil surface temperature on land surface energy balance closure” by Z. Gao et al.

Anonymous Referee #4

Received and published: 13 April 2009

This paper analyzed the influence of the wave phase difference between surface soil heat flux and soil surface temperature on land surface energy balance closure, which is interesting for the scientific goal. But I found some severe problems in the manuscript, such as: 1. The authors did not describe the instruments correctly from Line 2 to Line 27 in page 1099 (e.g. the instruments of turbulence, soil heat flux and radiation instruments). There are detail descriptions about the instruments of the GAME/Tibet in some references (Tanaka et al., 2001: Surface energy budget at Amdo on the Tibetan Plateau using GAME/Tibet IOP98 data, Journal of Meteorological Society of Japan, 79(1B): 505-517; Ma et al., 2008: Tibetan Observation and Research Platform- Atmosphere-land interaction over a heterogeneous landscape, Bull. Amer. Meteor. Soc., 89, 1487–

C277

1492... ...) even it is not clear in the Website of GAME/Tibet. The authors should carefully read the references and the Website of the GAME/Tibet and revised their manuscript. 2. The name of experimental site “Ando” is not correct. I have checked the Website and the references it should be “Anduo” or “Amdo”. 3. Where did you get the information “Vegetation cover was short grass with canopy height less than 0.05m and LAI of less than 0.5” and “... emissivity of 0.98”? I cannot find this information from the Website of GAME/Tibet!

Based on the shortages above, this manuscript should be revised and review again.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 6, 1089, 2009.