

## ***Interactive comment on “Interannual variations of the terrestrial water storage in the Lower Ob’ basin from a multisatellite approach” by F. Frappart et al.***

### **Anonymous Referee #2**

Received and published: 28 October 2010

The paper presents data from different satellites for 1993-2004 which have been extracted from existing, already in the literature discussed datasets for the lower Ob basin. The novel part is the use of such data in hydrological models in this specific environment, but limited to the years 2003-2004 (GRACE data available only for these years). This is however presented as a minor part only. Permafrost is a very important factor in the lower Ob basin. It is mentioned that one of the used models can deal with this issue, but no further explanation is given.

### Suggestions

1) Focus on the model part. Extend the description of the model, especially discuss the representation of permafrost (different types)

2) Explain why you limit your analyses to the lower Ob basin

3) revise English language!!!, e.g.

page 6649, line 1: was reveal with -> was revealed with

page 6652, line 9: comsomomly ?

page 6653, line 11: up to a degree 60 -> up to 60 degree

page 6654, line 1: annual rivers discharges -> annual river discharges

page 6655, line 2: 'and the' missing

.....

page 6661-2 (Conclusions) : ... to better the relationships ...? ... precipitation Seasonal ...?

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 7, 6647, 2010.

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Interactive Discussion

Discussion Paper