

## **Review of HESS Manuscript #2019-418**

Title: HESS Opinions: Beyond the Long-term Water Balance: Evolving Budyko's Legacy for the Anthropocene towards a Global Synthesis of Land-surface Fluxes under Natural and Human-altered Watersheds

Author: Sankarasubramanian et al.

### **Review**

This proposed HESS opinion manuscript describes how the Budyko-supply-demand type analysis can be extended to cover several other important problems in Hydrology.

The manuscript is well written and plays a useful opinion/review type role in the literature.

I had few comments.

The main substantive scientific comment relates to Figure 6 and the associated text. In short, I did not understand the point. The basic ideas for partitioning  $R_n$  between LE and H over different surface types have been covered in 1000s of papers. The urban example used (in Fig. 6) is also covered extensively in the classic text on urban climatology by Prof. Oke. In short, Fig. 6 and the associated text really does not belong in this manuscript.

**Recommend: Accept after (minor) revisions.**

### **Comments**

1. Lines 118-120. Please explain how your PET has been calculated.
2. Line 168. "simplistic" is the wrong word I think. simple might be a better choice.
3. Line 191. TYPO. curtailing
4. Line 193. delete simple (not needed).