

This is an extensive revision. It reads much better. Thanks for addressing my comments. The accuracy of this product remains a major concern, and I don't think that has been well demonstrated.

The advantage of this dataset is offering various surface fractions. I thus urge the authors to compare green vegetation fractional cover (or fractional NPV, not the sum of fractional PV and NPV in Figures 3, 4, and S5) of this dataset vs. that of present products. Especially in the evaluation of the accuracy of fractional NPV, because knowledge of NPV is essential for all terrestrial ecosystems, and its fraction estimates are a highlight of this work.

Lines 79-80: The dimidiate pixel model is also important for satellite-derived FVC products.

Lines 80-81: The meaning of NPV, which is considered a key quantifiable variable for terrestrial ecosystems, should be supplemented to emphasize the value of this work.