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## Supplementary Materials for

### **OCO-2 advances photosynthesis observation from space via solar-induced chlorophyll fluorescence**

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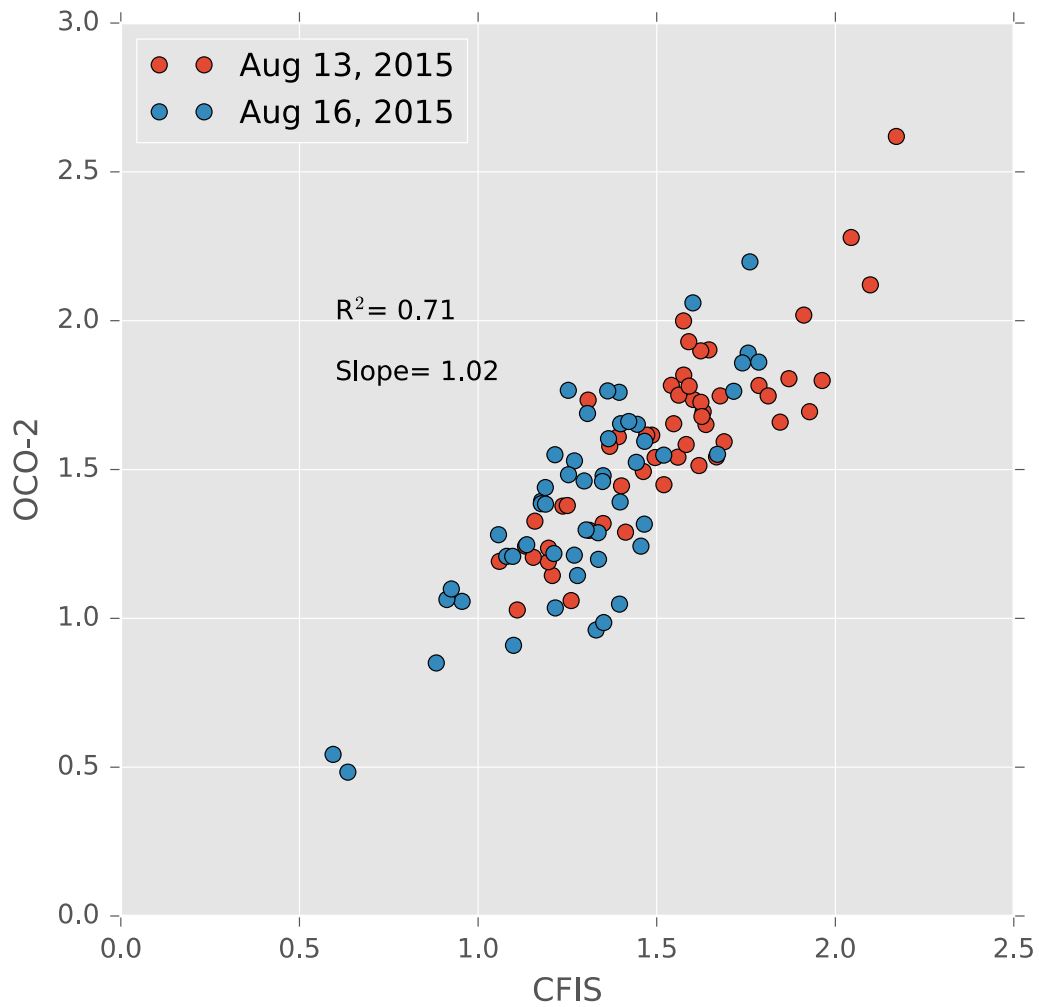
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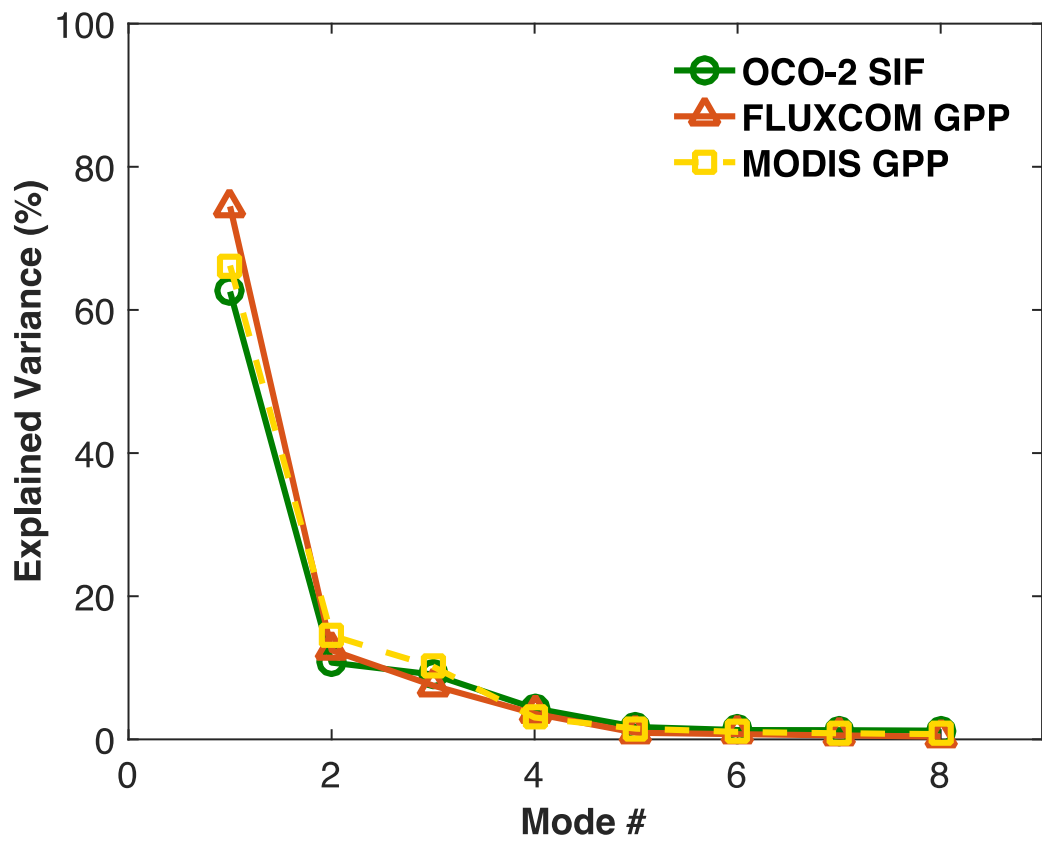
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#### **This PDF file includes:**

Figs. S1 and S2



**Figure S1.** Validation of OCO-2 SIF ( $\text{Wm}^{-2} \mu\text{m}^{-1} \text{sr}^{-1}$ ) with the initial two CFIS flights on August 13<sup>th</sup> and 16<sup>th</sup> of 2015 shown in Figure 2B. The slope of ordinary least square fit of OCO-2 against CFIS measurements is 1.02 (with intercept passing through origin); the goodness of linear fit  $R^2 = 0.71$ .



**Figure S2.** The variance explained by the first eight EOF modes in descending order.