



Diurnal response of Sun-induced Fluorescence and PRI to water stress in maize using a near-surface remote sensing platform

Shan Xu^{1,2}, Zhigang Liu^{1,2*}, Liang Zhao^{1,2}, Huarong Zhao³, Sanxue Ren³

¹ State Key Laboratory of Remote Sensing Science, Jointly Sponsored by Beijing Normal University and Institute of Remote Sensing and Digital Earth of Chinese Academy of Sciences, Beijing 100875, China; bnuxushan@gmail.com; zhigangliu@bnu.edu.cn; liangzhao@mail.bnu.edu.cn;

² Beijing Engineering Research Center for Global Land Remote Sensing Products, Institute of Remote Sensing Science and Engineering, Faculty of Geographical Science, Beijing Normal University, Beijing 100875, China; bnuxushan@gmail.com; zhigangliu@bnu.edu.cn; liangzhao@mail.bnu.edu.cn

³ Chinese Academy of Meteorological Sciences, Beijing 100081; 656892rzzr@163.com; 906885281@qq.com

* Correspondence: zhigangliu@bnu.edu.cn; Tel.: +86-136-5105-1881

Supplementary Materials:

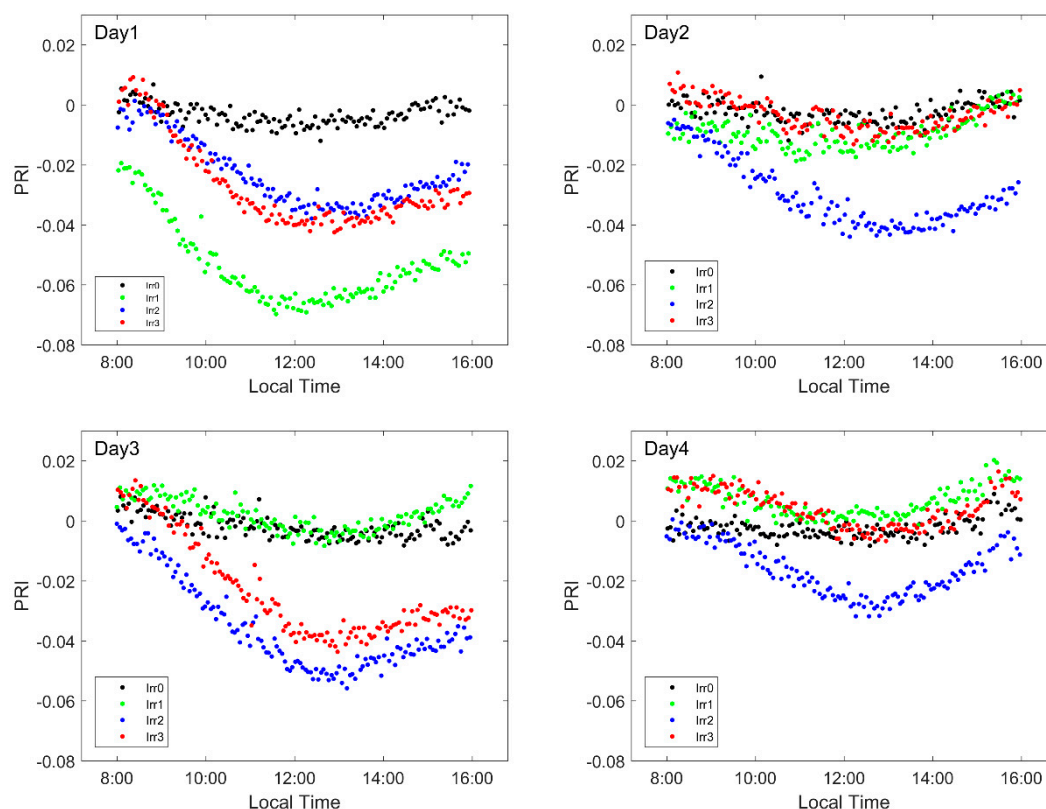


Figure S1. Diurnal PRI during experiment, with Day1 to Day4 representing the 4 observation dates (30 Jul., 31 Jul., 3 Aug., 4 Aug.). On the evening of Day1, Irr1 and Irr3 were watered 0.3 m³ and 0.16 m³, respectively. On the evening of Day3, Irr0, Irr1, Irr2 and Irr3 were watered 0.4 m³, 0.2 m³, 0.3 m³ and 0.16 m³, respectively.

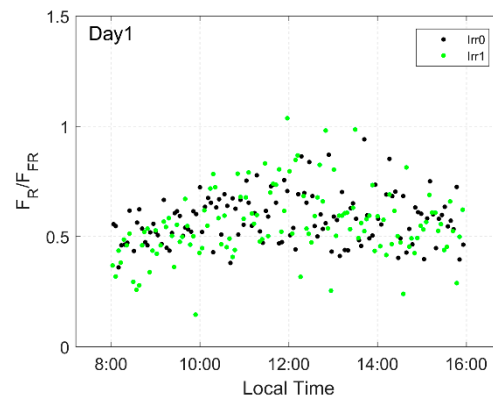


Figure S2. The ratio between F_R and F_{FR} of Irr0 and Irr1 in Day1.

Table S1. The R^2 of fitted data about diurnal F_{FR} in Figure 2

R2	Irr0	Irr1	Irr2	Irr3
Day1	0.6998	0.7046	0.6406	0.5935
Day2	0.6211	0.5123	0.3325	0.2696
Day3	0.5992	0.6966	0.5380	0.3966
Day4	0.8657	0.8648	0.6955	0.6377

Table S2. The R^2 of fitted data about diurnal F_R in Figure 3

R2	Irr0	Irr1	Irr2	Irr3
Day1	0.7873	0.6515	0.6636	0.7167
Day2	0.5800	0.7084	0.4764	0.5639
Day3	0.7970	0.9016	0.6370	0.7126
Day4	0.8108	0.8277	0.6794	0.7867