

Supplementary Information

A Framework for Defining Spatially Explicit Earth Observation Requirements for a Global Agricultural Monitoring Initiative (GEOGLAM). *Remote Sens.* 2015, 7, 1461-1481

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Academic Editors: Bingfang Wu, Anton Vrieling, Clement Atzberger and Prasad S. Thenkabail

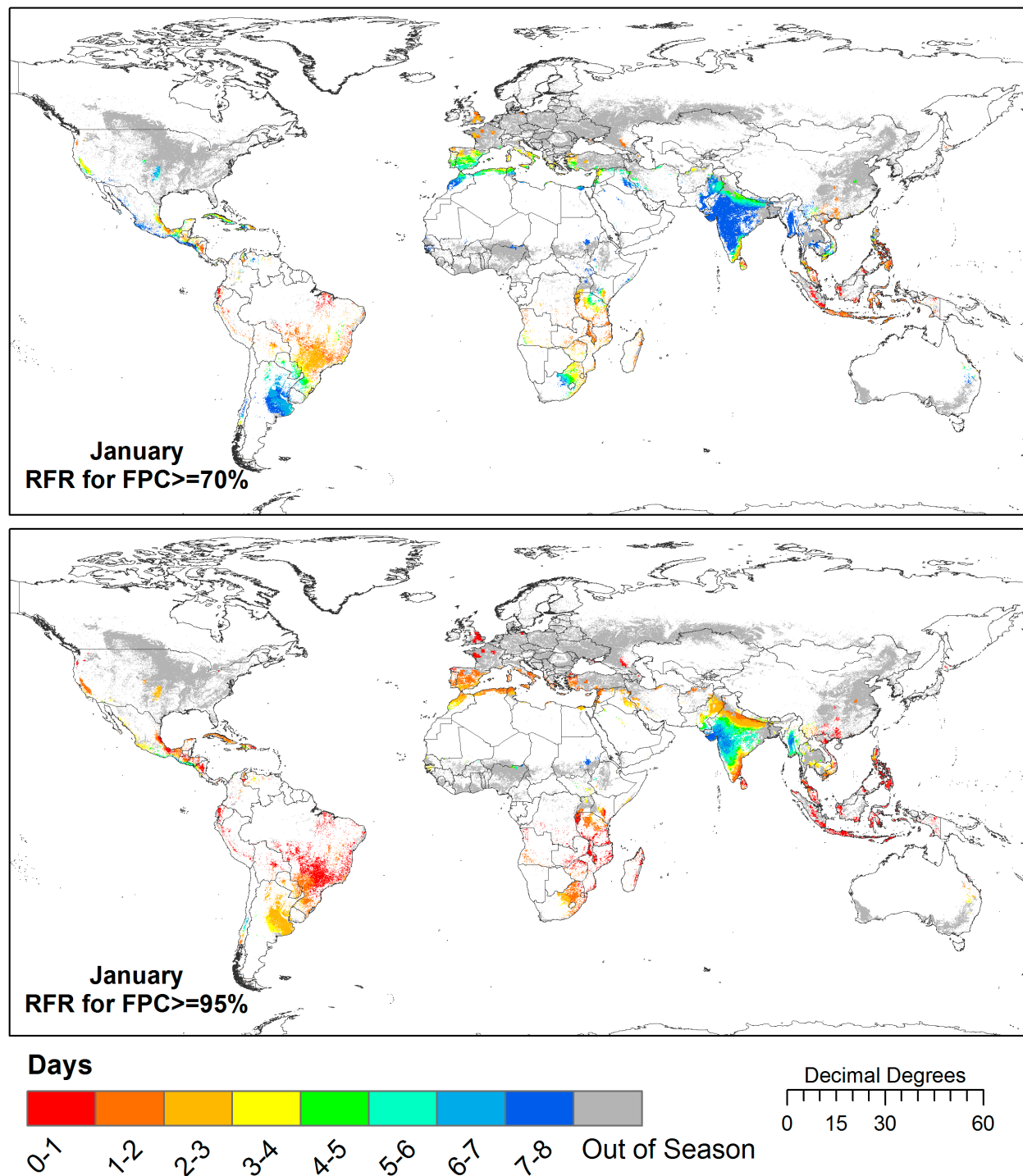


Figure S1. For the month of January, the revisit frequency required (RFR) to probabilistically yield a view at least 70% (**top**) or 95% (**bottom**) clear within 8 days over in-season croplands. Cropland mask is from Fritz *et al.* (2015) [1]. Growing season calendar is from Whitcraft *et al.* (2014) [2]. Areas containing cropland out of season are shown in gray. Resolution is 0.05°.

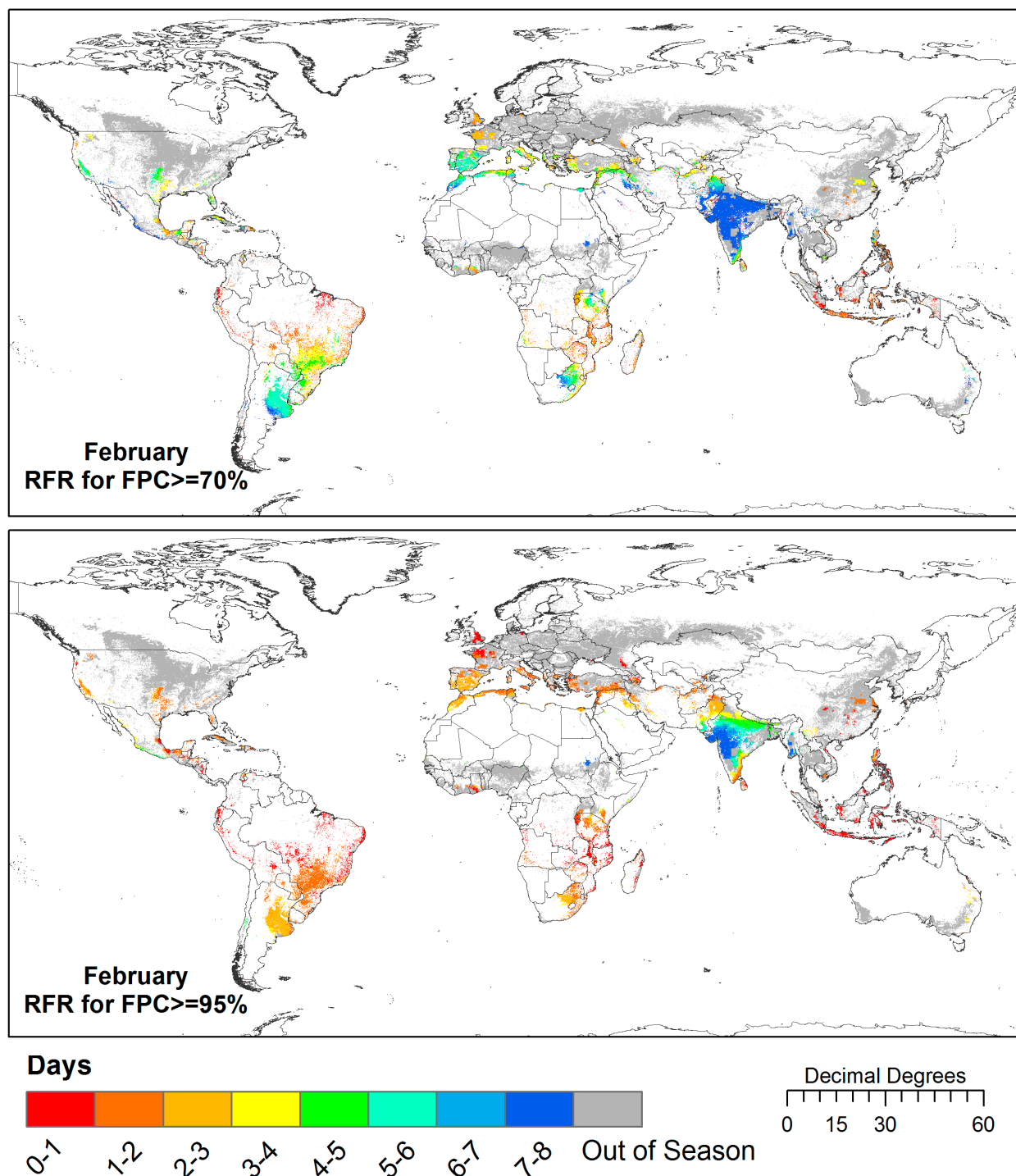


Figure S2. For the month of February, the revisit frequency required (RFR) to probabilistically yield a view at least 70% (**top**) or 95% (**bottom**) clear within 8 days over in-season croplands. Cropland mask is from Fritz *et al.* (2015) [1]. Growing season calendar is from Whitcraft *et al.* (2014) [2]. Areas containing cropland out of season are shown in gray. Resolution is 0.05°.

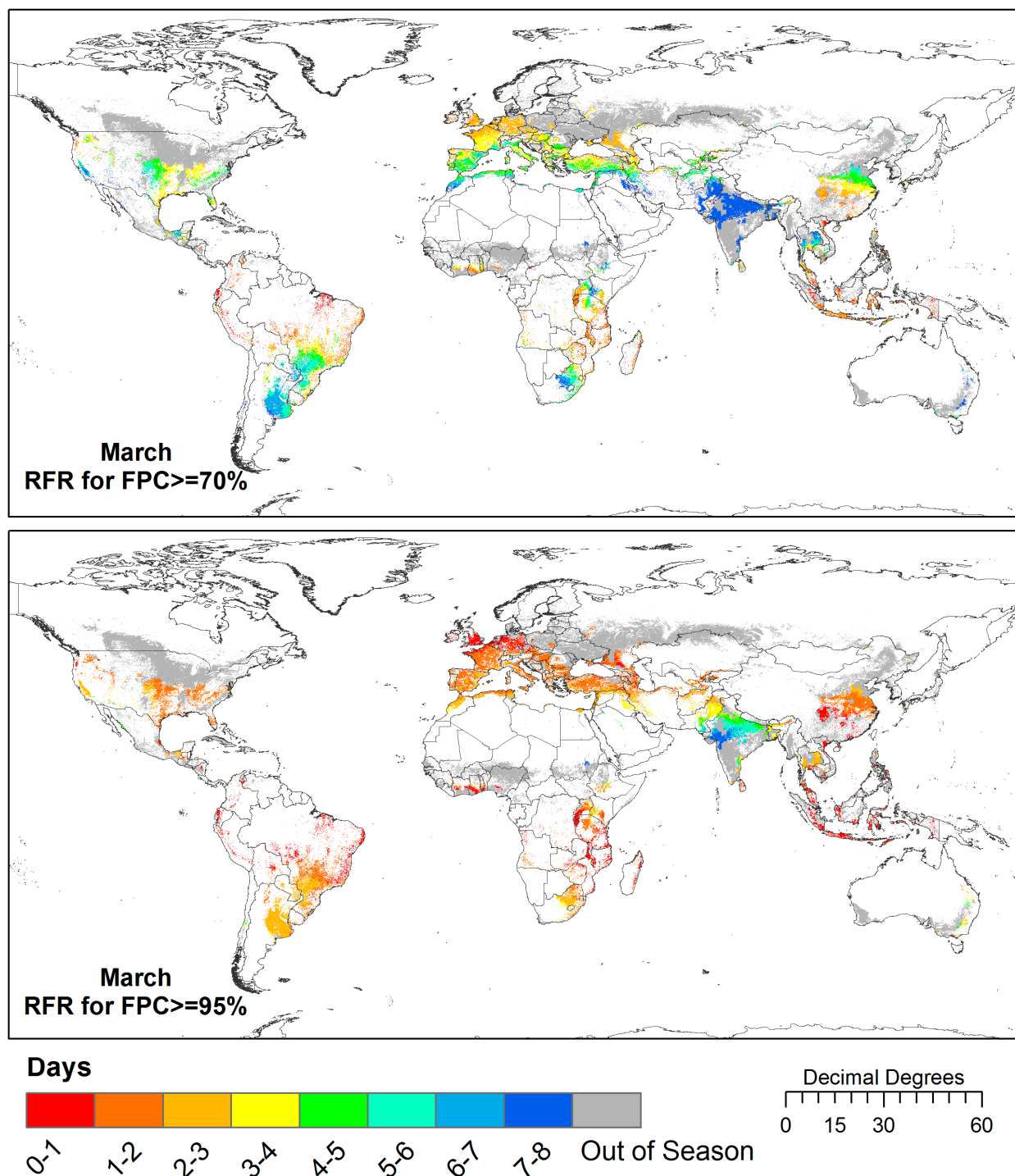


Figure S3. For the month of March, the revisit frequency required (RFR) to probabilistically yield a view at least 70% (**top**) or 95% (**bottom**) clear within 8 days over in-season croplands. Cropland mask is from Fritz *et al.* (2015) [1]. Growing season calendar is from Whitcraft *et al.* (2014) [2]. Areas containing cropland out of season are shown in gray. Resolution is 0.05°.

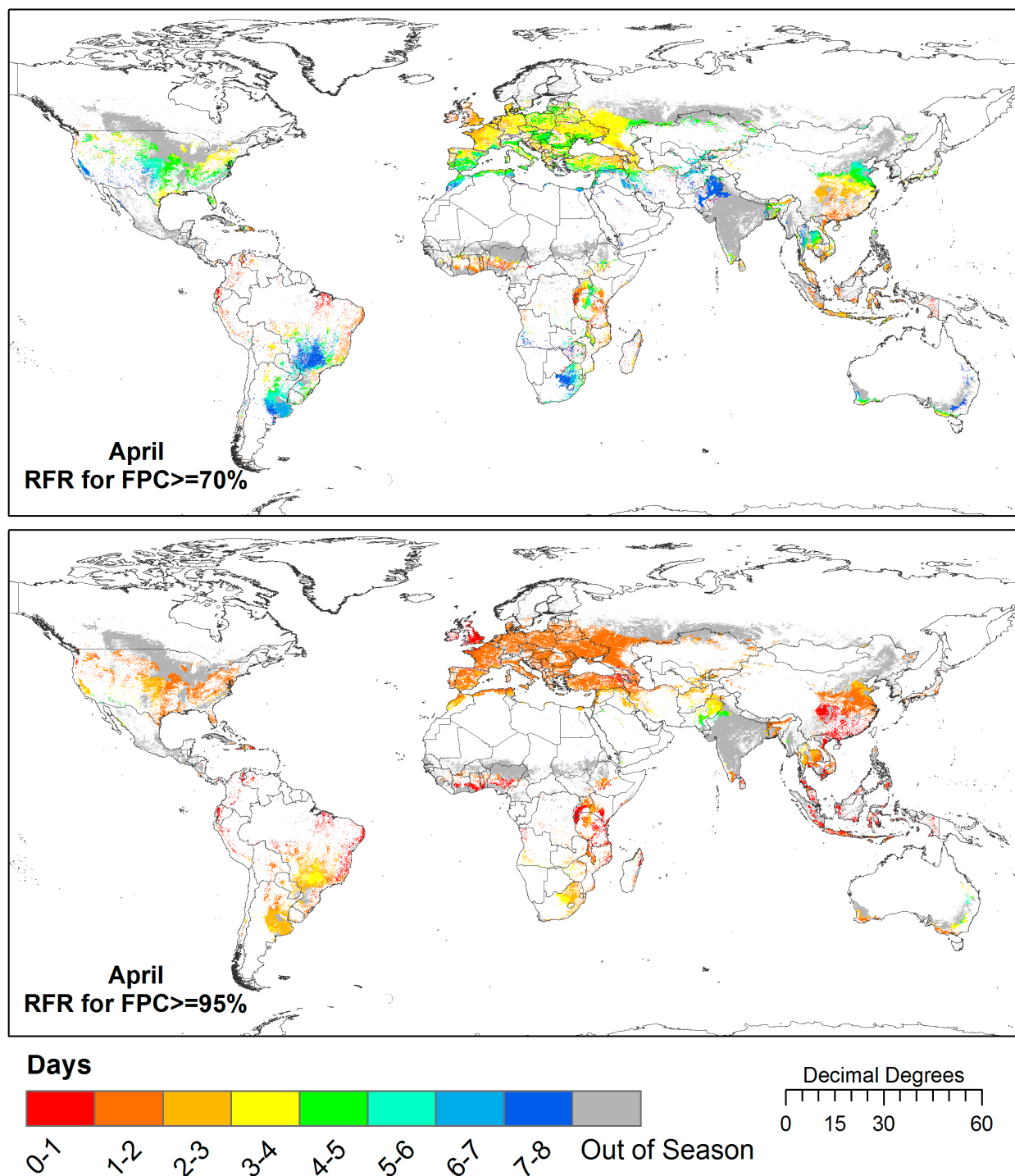


Figure S4. For the month of April, the revisit frequency required (RFR) to probabilistically yield a view at least 70% (**top**) or 95% (**bottom**) clear within 8 days over in-season croplands. Cropland mask is from Fritz *et al.* (2015) [1]. Growing season calendar is from Whitcraft *et al.* (2014) [2]. Areas containing cropland out of season are shown in gray. Resolution is 0.05°.

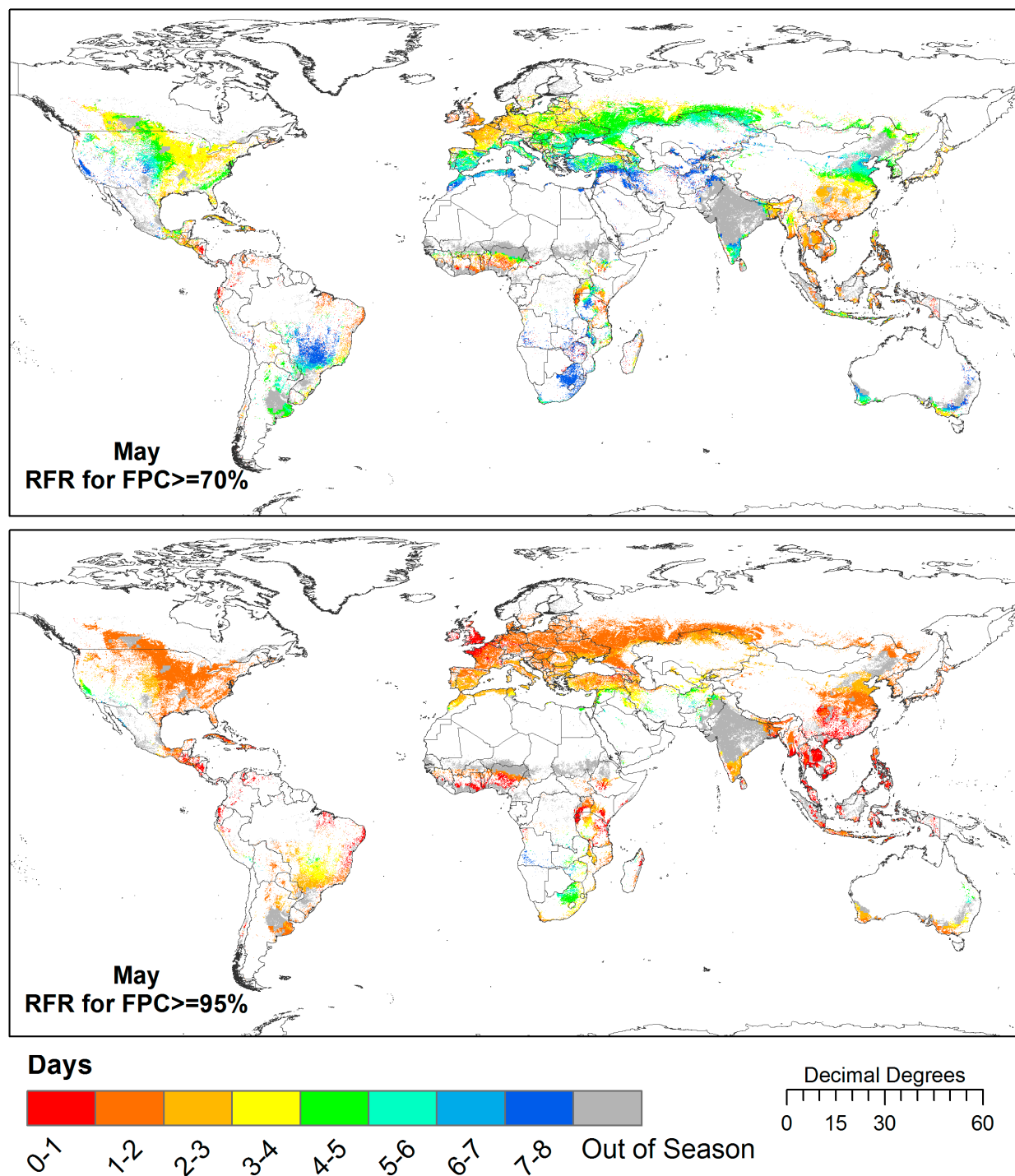


Figure S5. For the month of May, the revisit frequency required (RFR) to probabilistically yield a view at least 70% (**top**) or 95% (**bottom**) clear within 8 days over in-season croplands. Cropland mask is from Fritz *et al.* (2015) [1]. Growing season calendar is from Whitcraft *et al.* (2014) [2]. Areas containing cropland out of season are shown in gray. Resolution is 0.05°.

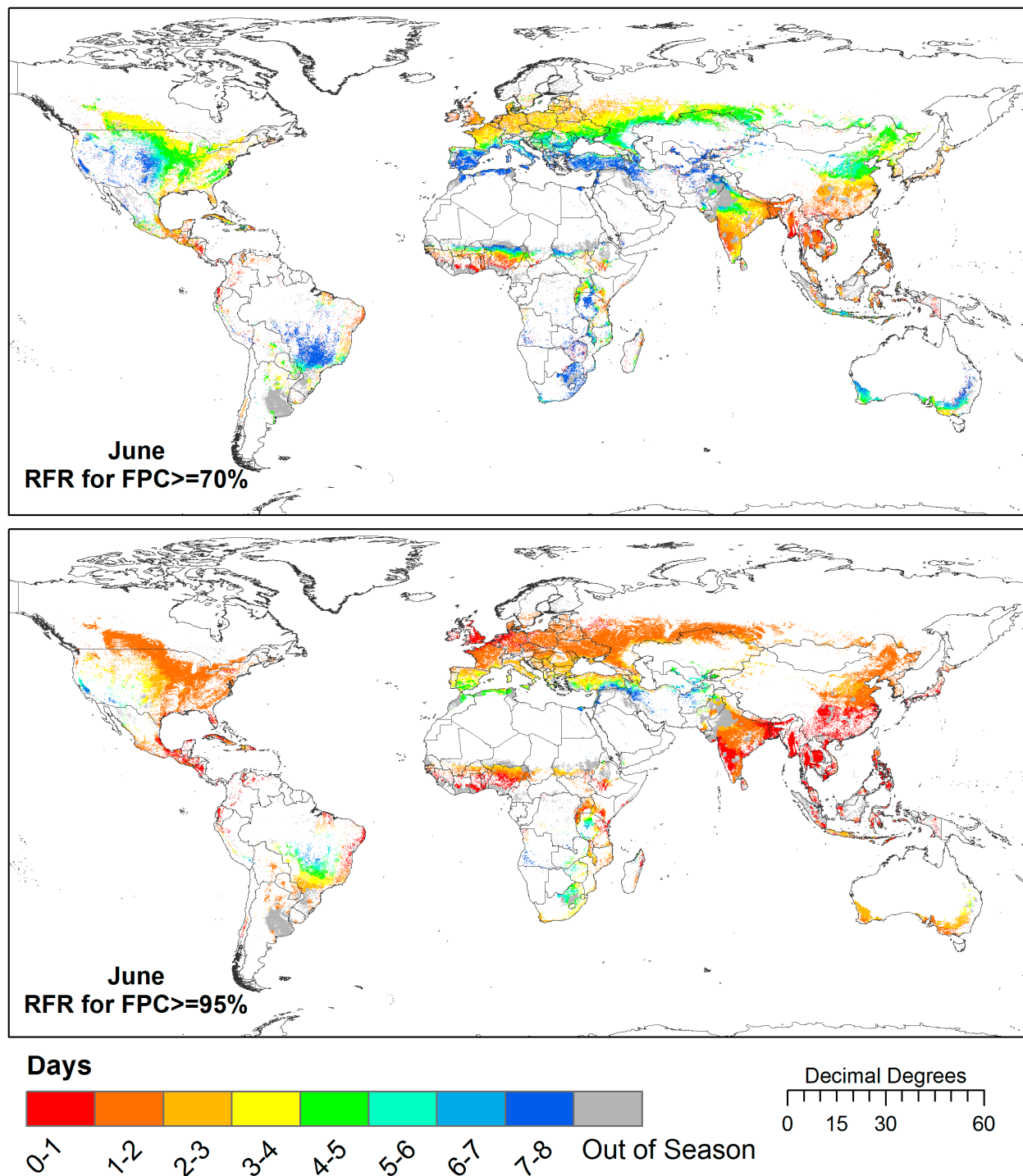


Figure S6. For the month of June, the revisit frequency required (RFR) to probabilistically yield a view at least 70% (**top**) or 95% (**bottom**) clear within 8 days over in-season croplands. Cropland mask is from Fritz *et al.* (2015) [1]. Growing season calendar is from Whitcraft *et al.* (2014) [2]. Areas containing cropland out of season are shown in gray. Resolution is 0.05°.

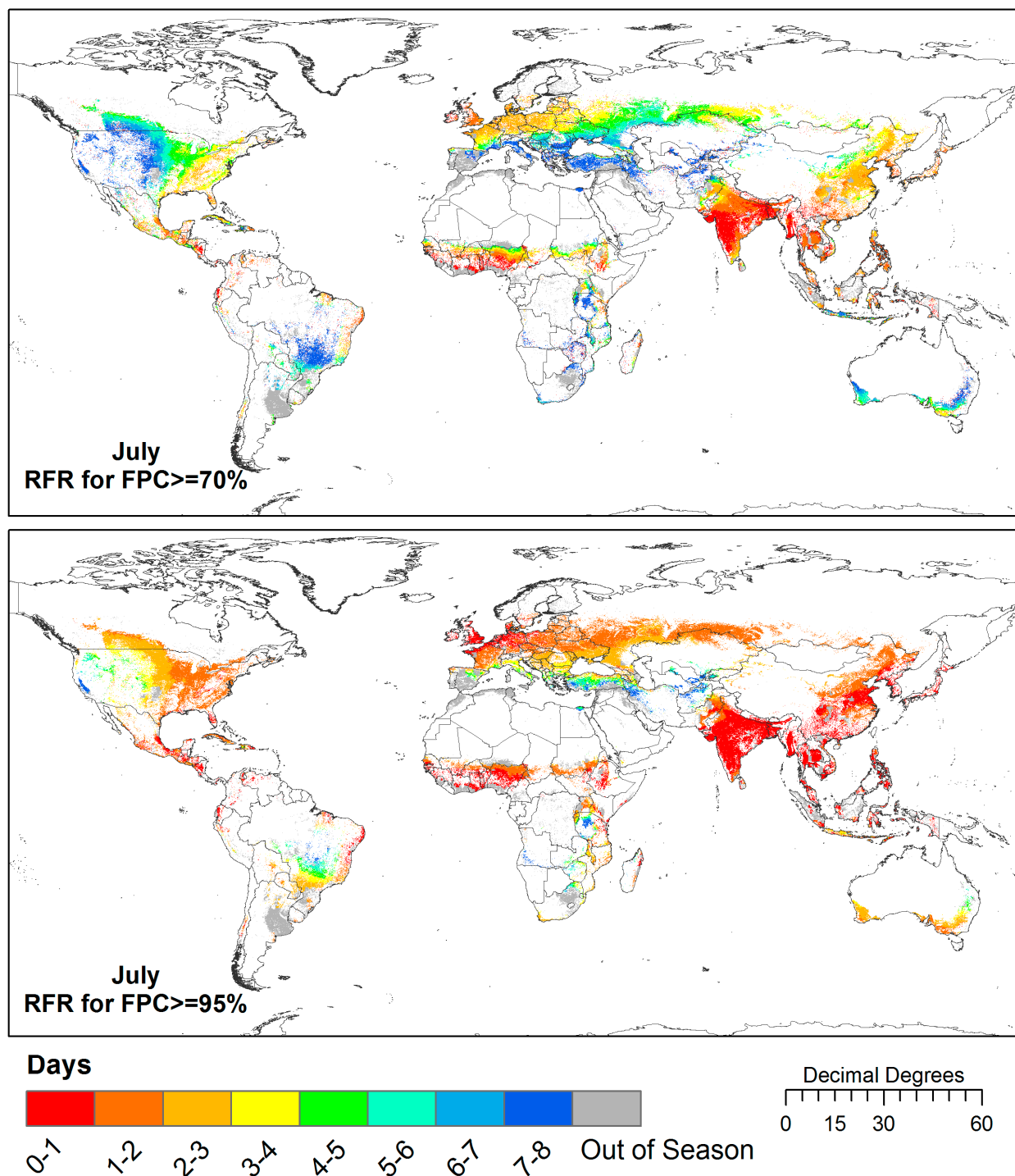


Figure S7. For the month of July, the revisit frequency required (RFR) to probabilistically yield a view at least 70% (**top**) or 95% (**bottom**) clear within 8 days over in-season croplands. Cropland mask is from Fritz *et al.* (2015) [1]. Growing season calendar is from Whitcraft *et al.* (2014) [2]. Areas containing cropland out of season are shown in gray. Resolution is 0.05°.

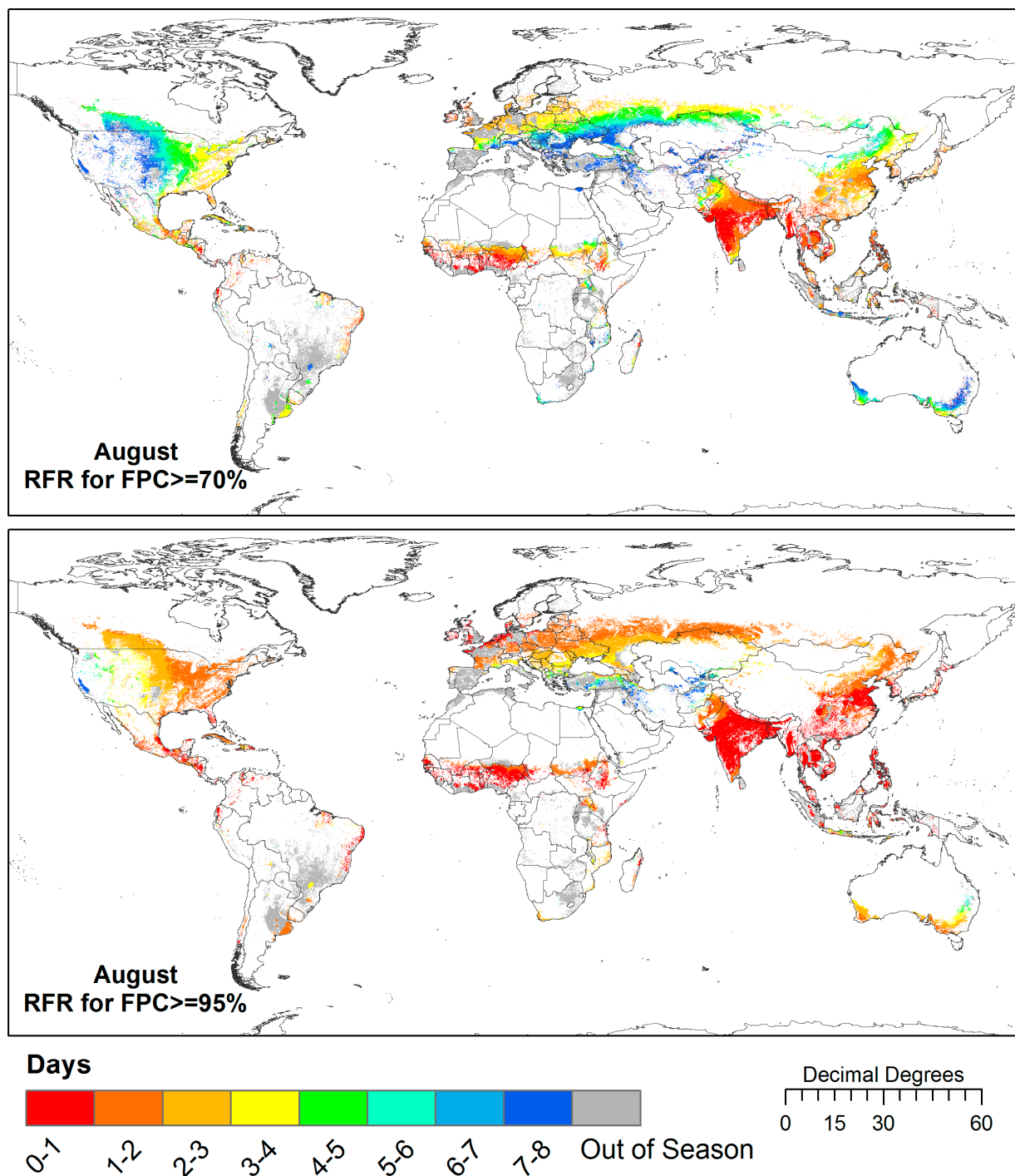


Figure S8. For the month of August, the revisit frequency required (RFR) to probabilistically yield a view at least 70% (**top**) or 95% (**bottom**) clear within 8 days over in-season croplands. Cropland mask is from Fritz *et al.* (2015) [1]. Growing season calendar is from Whitcraft *et al.* (2014) [2]. Areas containing cropland out of season are shown in gray. Resolution is 0.05°.

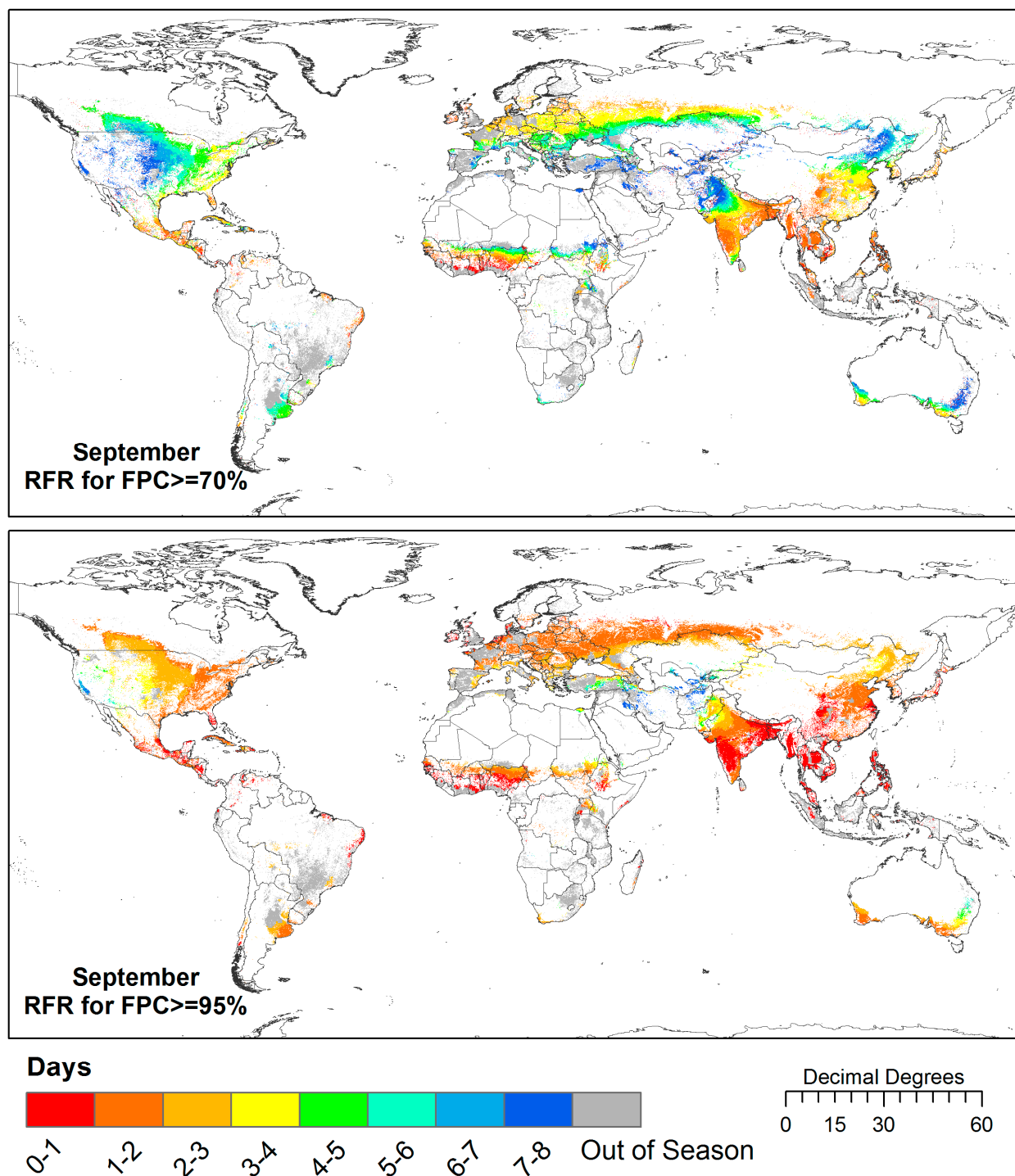


Figure S9. For the month of September the revisit frequency required (RFR) to probabilistically yield a view at least 70% (**top**) or 95% (**bottom**) clear within 8 days over in-season croplands. Cropland mask is from Fritz *et al.* (2015) [1]. Growing season calendar is from Whitcraft *et al.* (2014) [2]. Areas containing cropland out of season are shown in gray. Resolution is 0.05°.

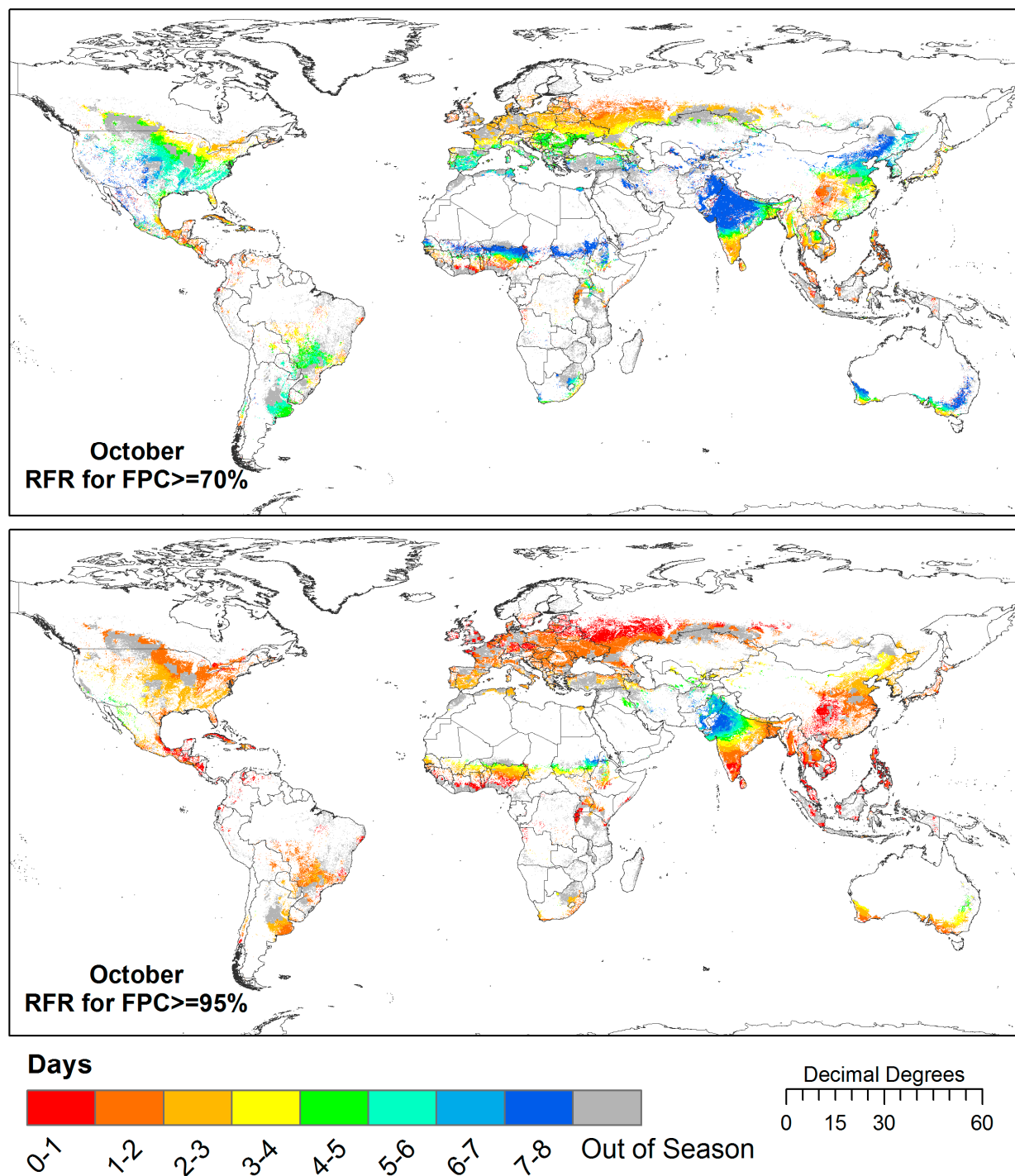


Figure S10. For the month of October, the revisit frequency required (RFR) to probabilistically yield a view at least 70% (**top**) or 95% (**bottom**) clear within 8 days over in-season croplands. Cropland mask is from Fritz *et al.* (2015) [1]. Growing season calendar is from Whitcraft *et al.* (2014) [2]. Areas containing cropland out of season are shown in gray. Resolution is 0.05°.

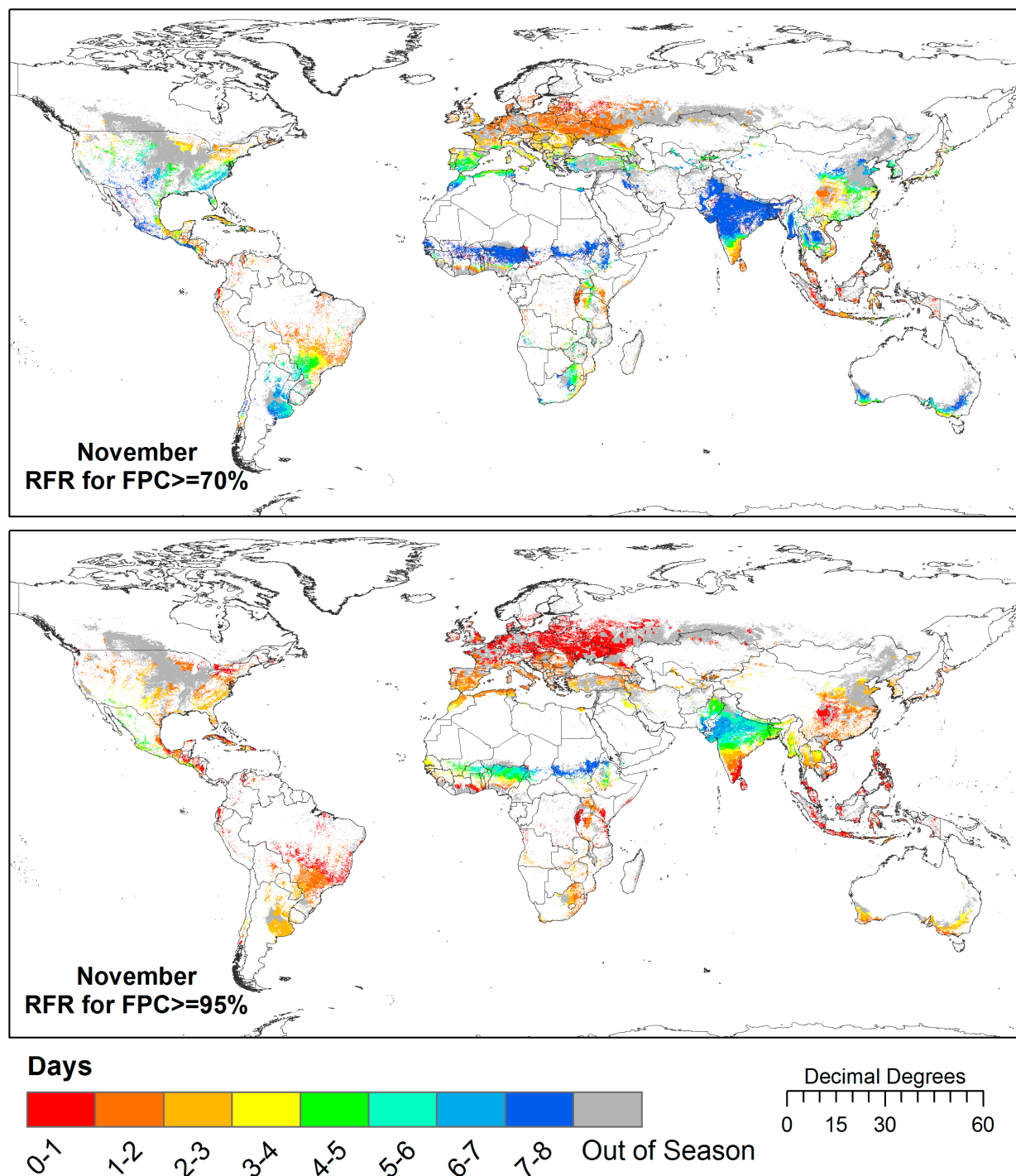


Figure S11. For the month of November, the revisit frequency required (RFR) to probabilistically yield a view at least 70% (**top**) or 95% (**bottom**) clear within 8 days over in-season croplands. Cropland mask is from Fritz *et al.* (2015) [1]. Growing season calendar is from Whitcraft *et al.* (2014) [2]. Areas containing cropland out of season are shown in gray. Resolution is 0.05°.

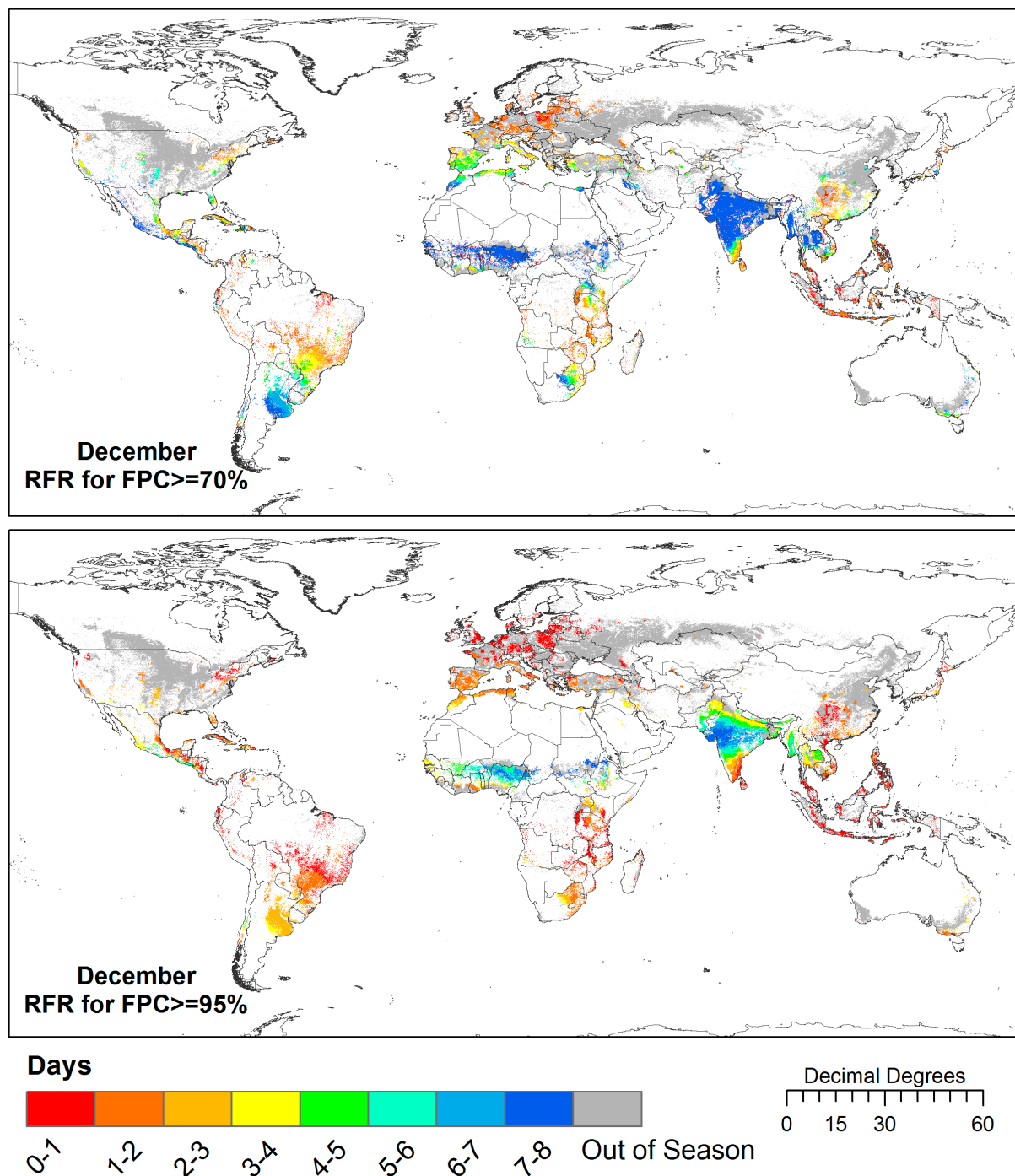


Figure S12. For the month of December, the revisit frequency required (RFR) to probabilistically yield a view at least 70% (**top**) or 95% (**bottom**) clear within 8 days over in-season croplands. Cropland mask is from Fritz *et al.* (2015) [1]. Growing season calendar is from Whitcraft *et al.* (2014) [2]. Areas containing cropland out of season are shown in gray. Resolution is 0.05°.