

Reviewer 2: Figures

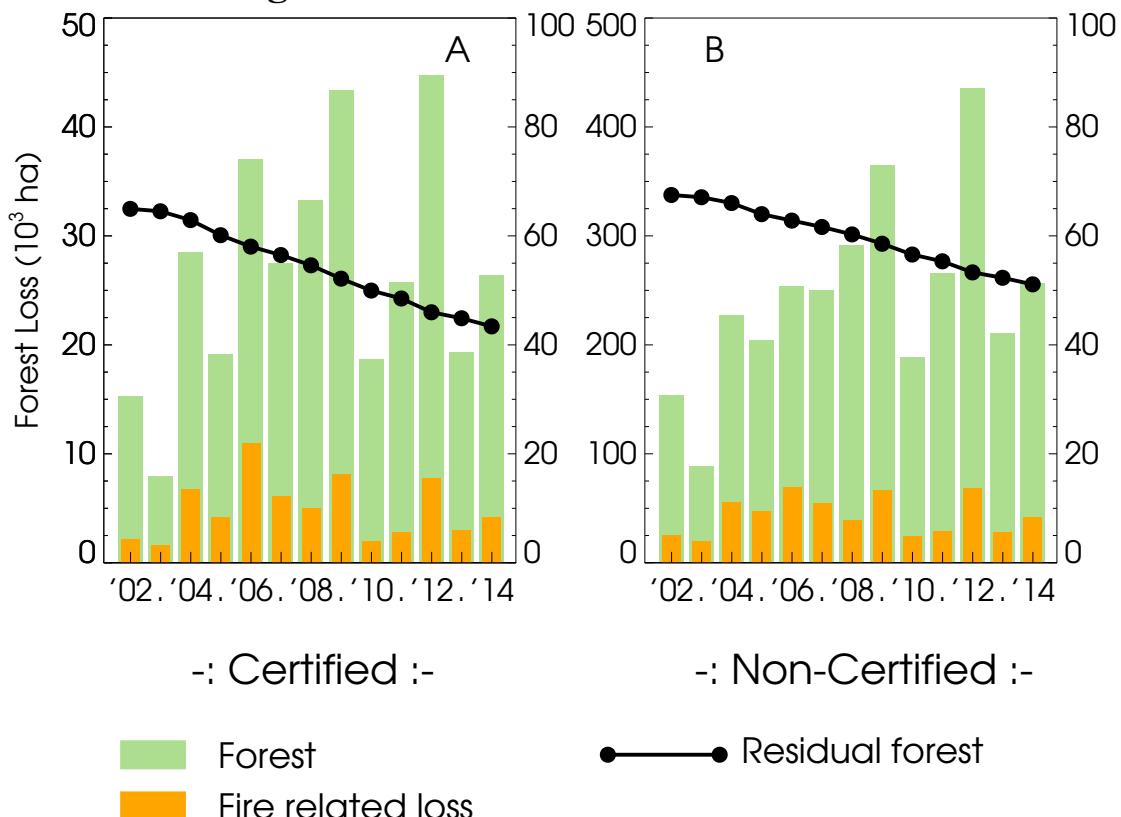


Figure R1: Forest (green) and fire-driven (orange) forest loss within a 5 km buffer surrounding certified and non-certified oil palm plantation boundaries. Solid black lines indicate residual forest cover as a percentage of the buffer area adjacent to certified and non-certified plantations.

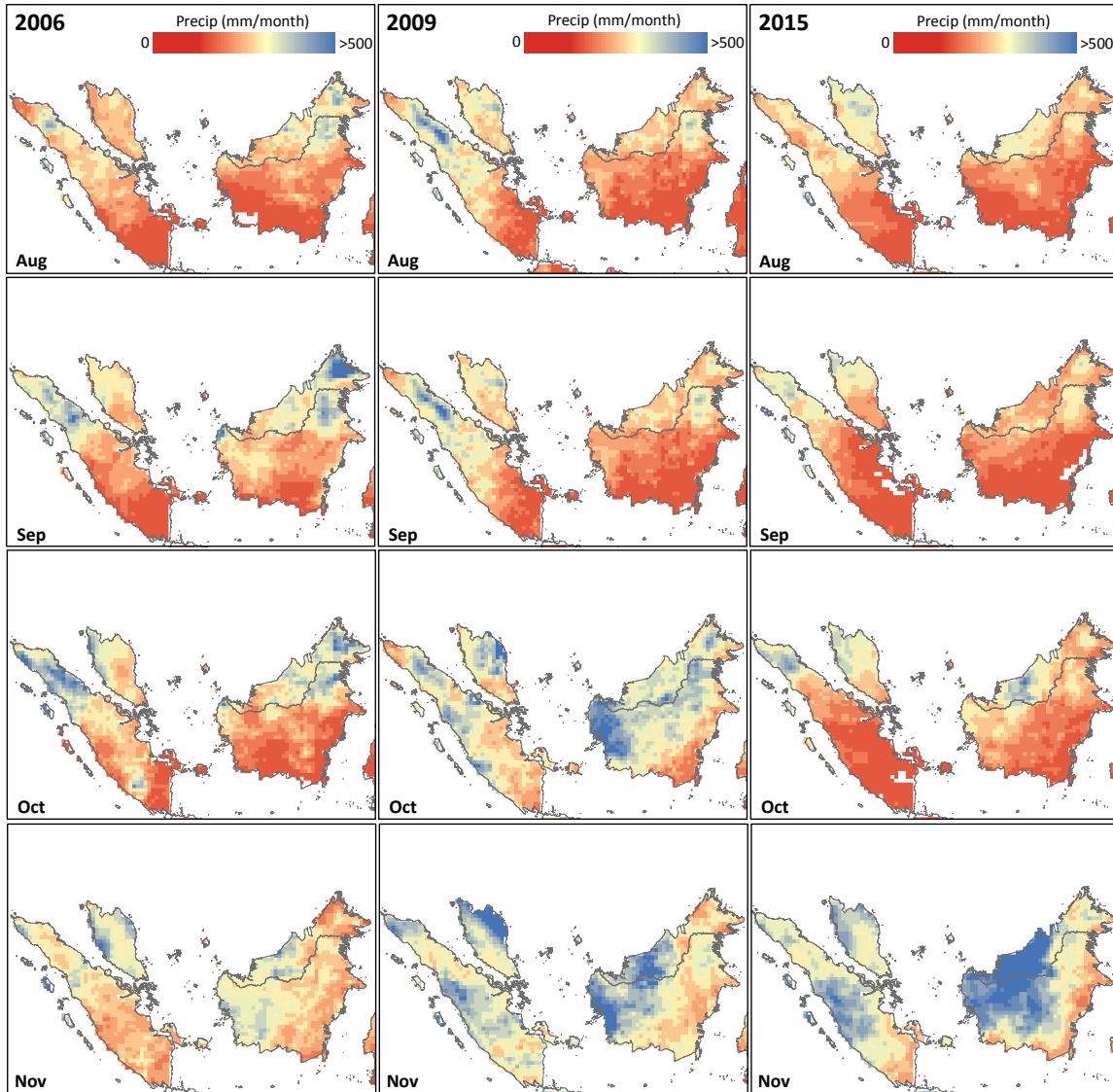


Figure R2: Monthly precipitation for Indonesia and Malaysia from the Tropical Rainfall Measuring Mission (TRMM, 3B43v7) during peak fire months for El Niño years (2006, 2009, and 2015). The spatial distribution of precipitation was similar in 2006 and 2015, whereas the region received more precipitation in October during the 2009 El Niño event.



Figure R3: Extent of peatlands in Indonesia and Malaysia (Wahyunto et al., 2003; 2004;2006 and WI, 2016).

References:

- Carlson, K. M., Curran, L. M., Asner, G. P., Pittman, A. M., Trigg, S. N. & Marion Adeney, J. 2013. Carbon emissions from forest conversion by Kalimantan oil palm plantations. *Nature Clim. Change*, 3, 283-287.
- Field, R. D., van der Werf, G. R., Fanin, T., Fetzer, E. J., Fuller, R., Jethva, H., Levy, R., Livesey, N. J., Luo, M., Torres, O. & Worden, H. M. 2016. Indonesian fire activity and smoke pollution in 2015 show persistent nonlinear sensitivity to El Niño-induced drought. *Proceedings of the National Academy of Sciences*.
- Garrett, R. D., Carlson, K. M., Rueda, X. & Noojipady, P. 2016. Assessing the potential additioality of certification by the Round table on Responsible Soybeans and the Roundtable on Sustainable Palm Oil. *Environmental Research Letters*, 11, 045003.
- Gunarso, P., Hartoyo, M., Agus, F. & Killeen, T. 2013. Oil palm and land use change in Indonesia, Malaysia and Papua New Guinea. *Reports from the Technical Panels of the 2nd greenhouse gas working Group of the Roundtable on Sustainable Palm Oil (RSPO)*, 29-64.
- Schroeder, W., Oliva, P., Giglio, L. & Csiszar, I. A. 2014. The New VIIRS 375 m active fire detection data product: Algorithm description and initial assessment. *Remote Sensing of Environment*, 143, 85-96.
- TW. 2015. *Transparent World-Tree Plantations* [Online]. World Resources Institute: Global Forest Watch. Available: http://data.globalforestwatch.org/datasets/baae47df61ed4a73a6f54f00cb4207e0_5 [Accessed Dec, 09 2016].
- van der Werf, G. R., Dempewolf, J., Trigg, S. N., Randerson, J. T., Kasibhatla, P. S., Giglio, L., Murdiyarso, D., Peters, W., Morton, D. C., Collatz, G. J., Dolman, A. J. & DeFries, R. S. 2008. Climate regulation of fire emissions and deforestation in equatorial Asia. *Proceedings of the National Academy of Sciences*, 105, 20350-20355.
- Wahyunto, B. H., Bekti, H. & Widiastuti, F. 2006. *Peta-Peta Sebaran Lahan Gambut, Luas dan Kandungan Karbon di Papua/Maps of Peatland Distribution, Area and Carbon Content in Papua, 2000-2001*. Bogor, Indonesia.
- Wahyunto, R. & Subagjo, H. 2003. *Peta Luas Sebaran Lahan Gambut dan Kandungan Karbon di Pulau Sumatera/Maps of Area of Peatland Distribution and Carbon Content in Sumatera, 1990-2002*. Bogor, Indonesia.
- Wahyunto, R. S. & Subagjo, H. 2004. *Peta Luas Sebaran Lahan Gambut dan Kandungan Karbon di Pulau Kalimantan/ Maps of Area of Peatland Distribution and Carbon Content in Kalimantan, 2000–2002* Bogor, Indonesia.
- WI. 2016. *Malaysia Peat Lands* [Online]. Available: http://gfw2-data.s3.amazonaws.com/country/mys/zip/mys_peat_lands.zip [Accessed].