

Supplementary information

Soil degradation assessment across tropical grassland of Western Kenya

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Table S1: Summary of dates of acquisition of Landsat and Sentinel-2 imagery used for the determination of Normalised Difference Vegetation Index, Enhanced Vegetation Index and Normalised Difference Water Index.

2013	2014	2015	2016	2017	2018
NA	2014/01/25 ¹	2015/01/12 ¹	2016/01/08 ²	2017/01/12 ²	2018/01/22 ²
2013/04/28 ¹	2014/04/01 ¹	2015/04/02 ¹	2016/04/27 ²	2017/04/02 ²	2018/04/10 ¹
2013/06/17 ¹	2014/06/18 ¹	2015/06/07 ¹	2016/06/06 ²	2017/06/11 ²	2018/06/11 ²
2013/08/18 ¹	2014/08/21 ¹	2015/08/11 ²	2016/08/25 ²	2017/08/20 ²	2018/08/05 ²
2013/10/05 ¹	2014/10/25 ¹	2015/10/25 ¹	2016/10/29 ¹	2017/10/29 ¹	2018/10/03 ¹
2013/12/24 ¹	2014/12/11 ¹	2015/12/29 ²	2016/12/23 ²	2017/12/28 ²	2018/12/18 ²

¹ Landsat Thematic Mapper (TM) or Operational Land Imager (OLI) imagery, ² Sentinel-2 imagery

Note: Landsat images were resampled to 10m resolution.

Table S2. Counts of sites with different ERU labels in the stable variable set and the transient variable set in Kuresoi and Nyando respectively.

	Kuresoi			Nyando		
	Equilibrium	Transitiona l	Degrade d	Equilibrium	Transitiona l	Degrade d
Stable	9	15	17	16	10	5
Transient	9	15	14	18	14	10