Supplementary Materials: Object-based classification of grasslands from high resolution satellite image time series using Gaussian mean map kernels

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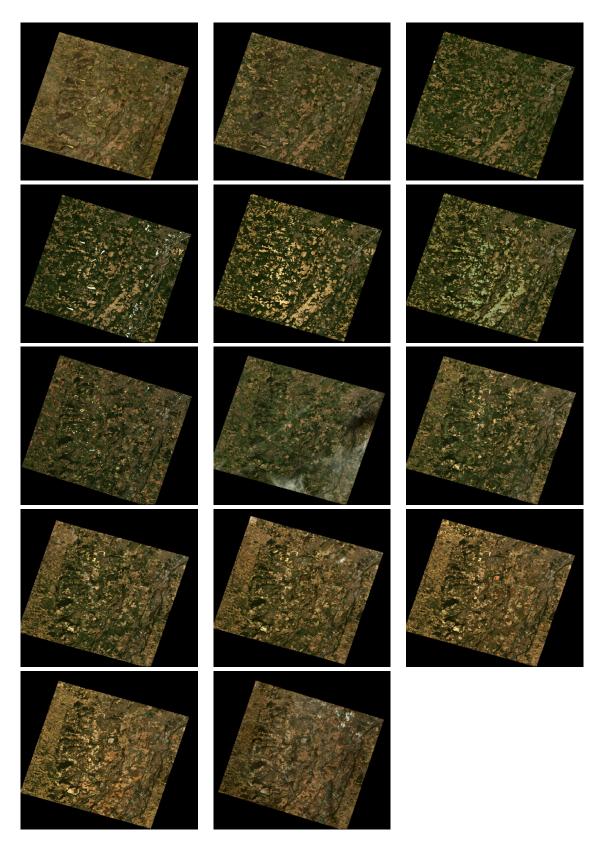


Figure S1. True color composite images of the Formosat-2 time series of 2014 (\odot CNES/Kalideos NSPO - Distribution Airbus DS).

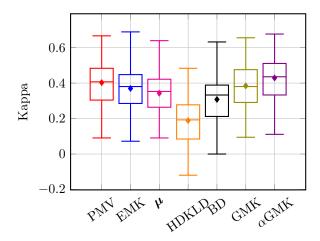


Figure S2. Boxplot of Kappa coefficient repartitions for the classification of the old and young grasslands. The line in the box stands for the median whereas the dot stands for the mean.

Table S1. Average user accuracy (UA) and producer accuracy (PA) (%) over the 100 repetitions for each class, 1: Old, 2: Young.

	UA1	UA2	PA1	PA2
PMV	85.8	90.9	30.9	99.2
EMK	70.0	90.8	30.9	97.9
$oldsymbol{\mu}$	60.3	90.8	31.5	96.7
HDKLD	31.8	89.7	27.5	90.8
BD	65.4	90.1	26.3	97.5
GMK	65.5	91.1	34.4	97.0
$\alpha \mathrm{GMK}$	74.7	91.4	36.6	97.9

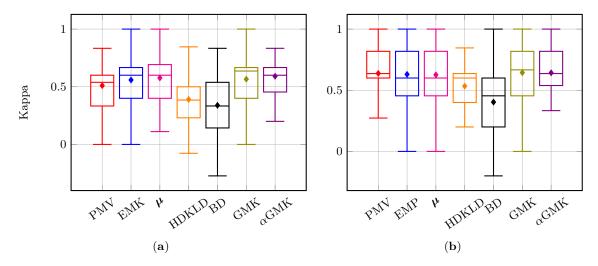


Figure S3. Boxplot of Kappa coefficient repartitions for classification of management practices using time series of year (a) 2013 and (b) 2014. The line in the box stands for the median whereas the dot stands for the mean.

Table S2. Average user accuracy (UA) and producer accuracy (PA) (%) over the 100 repetitions for each class, 1: Mowing, 2: Mixed, 3: Grazing.

	UA1	UA2	UA3	PA1	PA2	PA3
PMV	80.5	45.5	78.7	95.4	28.5	64.0
EMK	85.5	36.3	75.5	97.5	25.0	70.0
$oldsymbol{\mu}$	87.1	37.3	69.1	97.9	25.0	71.5
HDKLD	82.7	41.4	41.5	86.3	33.5	46.5
BD	83.5	26.0	34.3	85.3	32.5	33.0
GMK	87.2	34.8	68.8	97.4	26.5	68.5
$\alpha \mathrm{GMK}$	87.1	45.0	69.8	96.9	33.5	68.5
			20	14		
PMV	88.8	53.9	81.0	97.5	49.0	63.5
EMK	86.8	51.8	86.4	94.5	41.0	80.0
$oldsymbol{\mu}$	86.2	52.6	88.2	94.3	41.5	80.0
HDKLD	84.0	69.5	47.2	96.4	58.0	35.5
BD	80.7	56.4	45.0	86.7	50.5	37.5
GMK	87.5	54.2	87.3	94.5	46.5	78.5
$\alpha \mathrm{GMK}$	87.9	52.5	80.3	96.5	39.5	78.5