

**Dataset description:** Ecosystem Functional Attributes (EVI\_Mean, EVI\_sSD and EVI\_MMAX provided yearly and summarized for the period); Ecosystem Functional Types (EFTs yearly and summarized for the period (mode, interannual variability and dissimilarity); Ecosystem Functional Diversity (EFT richness and EFT rarity, provided yearly and summarized for the period). Spatial resolution is ~232 in all cases except in the EFT dissimilarity, where it is ~298. YYYY refers to year and varies from 2001 to 2018.

Filename	Variable	Definition	Biological significance	Temporal resolution
EVI_Mean_YYYY_C006_MOD13Q1_Pixel232	EVI_mean	Mean of the positive EVI values in a year	Primary production in a year	Yearly, one image per year YYYY
EVI_Mean_InterAnnualMean_2001-2018_C006_MOD13Q1_Pixel232	EVI_mean	Inter-annual mean of the annual EVI_mean values of the period	Average annual primary production of the period	One image for the 2001-2018 period
EVI_sSD_YYYY_C006_MOD13Q1_Pixel232	EVI_sSD	Intra-annual standard deviation of the positive EVI values within a year	Seasonality in vegetation greenness. Differences in carbon gains between the growing and non-growing seasons in a year	Yearly, one image per year YYYY
EVI_sSD_InterannualMean_2001-2018_C006_MOD13Q1_Pixel232	EVI_sSD	Inter-annual mean of the annual EVI_sSD values of a period	Seasonality. Average annual of the differences in carbon gains between the growing and non-growing seasons throughout the period	Average of the 2001-2018 period
EVI_MMAX_YYYY_C006_MOD13Q1_Pixel232	EVI_MMAX	Month with maximum EVI in a year	Phenology. Date of maximum greenness in a year	Yearly, one image per year YYYY
EVI_MMAX_InterannualMean_2001-2018_C006_MOD13Q1_Pixel232	EVI_MMAX	Inter-annual mean of the month with maximum EVI of the period	Phenology. Average annual of the month with maximum greenness throughout the period	Average of the 2001-2018 period
EFTs_YYYY_C006_MOD13Q1_Pixel232	EFTs	Range of EFA's values divided into four intervals $4 \times 4 \times 4 = 64$ potential EFTs in a year	Patches of land surface that share similar dynamics in matter and energy exchanges in a year	Yearly, one image per year YYYY
EFTs_InterannualMode_2001-2018_C006_MOD13Q1_Pixel232	EFTs	Mode of the range of EFA's values divided into four intervals $4 \times 4 \times 4 = 64$ potential EFTs of the period	Patches of land surface that share similar dynamics in matter and energy exchanges throughout the period	Mode of the 2001-2018 period

EFT_InterannualVariability_2001-2018_ C006_MOD13Q1_Pixel232	EFT interannual variability	N° of different EFTs that occurred in the same pixel in the period	Changes in an ecosystem functioning in a period	2001-2018 period
EFT_InterannualDissimilarity_2001-2018 _C006_MOD13Q1_Pixel232	EFT interannual dissimilarity	1 - <i>Jaccard Index</i>	Changes in ecosystem functioning a landscape level in a period	2001-2018 period
EFT_Richness_YYYY_C006_MOD13Q1 _Pixel232	EFT richness	N° of different EFTs in a 4×4-pixel moving window around each pixel in a year	Different EFTs represented in the land-surface in a year	Yearly, one image per year YYYY
EFT_Richness_InterannualMean_2001-20 18_C006_MOD13Q1_Pixel232	EFT richness	N° of different EFTs in a 4×4-pixel moving window (924 x 924 m) around each pixel in a period	Different EFTs represented in the land surface throughout the period	Average of the 2001-2018 period
EFT_Rarity_YYYY_C006_MOD13Q1 _Pixel232	EFT rarity	$Rarity\ of\ EFT_i = \frac{(Area\_EFT_{max} - Area\_EFT_i)}{Area\_EFT_{max}}$ (in a year)	EFT geographical extension	Yearly, one image per year YYYY
EFT_Rarity_InterannualMean_2001-2018 _C006_MOD13Q1_Pixel232	EFT rarity	$Rarity\ of\ EFT_i = \frac{(Area\_EFT_{max} - Area\_EFT_i)}{Area\_EFT_{max}}$ (in a period)	EFT geographical extension	Average of the 2001-2018 period