Quick user guide of the land surface seasonality products in GTiff and NetCDF formats

Version of August 2014

- The NDVI product compressed file includes 4 series of 52 GTiff layers whose size reaches 30 GB. The series description is summarized here below:

NDVI Condition Series	Description	Valid values Range	Scaling Factor	NaN value	Pixel depth
AggMean	Smoothed NDVI values corresponding to the mean NDVI over the 1999-2012 period. It gives the yearly reference dynamic of the vegetation greenness at a 7-day frequency.	[-10000 to 10000]	0.0001	32767	Int16
Std	Standard deviation of the mean NDVI over the 1999-2012 period. It represents the inter-annual variability of the mean NDVI for each 7-day period.	[0 to 10000]	0.0001	32767	Int16
NYearObs	Number of valid and cloud-free weekly composites contributing to each 7-day period of the AggMean and Std series. It is a quality indicator of the mean and std estimates.	[0 to 14]	None	None	Int16
Status	Status of the pixel; 0: invalid, 1 : land , 2 : water , 3 : snow, 4 : cloud , 5 : filled ice	[0 to 5]	None	0	Int16

- The burned areas product compressed file includes 2 series of 52 GTiff layers whose size reaches 5 GB. The series description is summarized in the table below:

BA Condition Series	Description	Valid values Range	Scaling Factor	NaN value	Pixel depth
AggOcc	Percentage of burned areas occurrence as detected over the 2000-2012 period on a 7-day basis. This describes the reference behavior of the burned areas dynamic at a 7-day frequency.	[0 to 100]	None	254	Byte
NYearObs	Number of valid and cloud-free weekly composites contributing to each 7-day period of the AggOcc series. It is a quality indicator of the occurrence values.	[0 to 13]	None	None	Byte

- The snow product compressed file (8 GB) shares the following characteristics:

Snow Condition Series	Description	Valid values Range	Scaling Factor	NaN value	Pixel depth
AggOcc	Percentage of the snow occurrence as detected over the 2000-2012 period on a 7-day basis. This describes a reference of the snow dynamic at a 7-day frequency.	[0 to 100]	None	255 254: filled water	Byte
NYearObs	Number of valid and cloud-free weekly composites contributing to each 7-day period of the AggOcc series. This is a quality indicator of the occurrence values.	[0 to 13]	None	None	Byte

- The NDVI product consists of 52 NetCDF files with 4 bands whose total size reaches 26 GB. The NetCDF file description of a single file is summarized below:

NDVI Condition Series	Description	Valid values Range	Scaling Factor	NaN value	Pixel depth
ndvi_mean	Smoothed NDVI values corresponding to the averaged NDVI over the 1999-2012 period. It gives the yearly reference dynamic of the vegetation greenness at a 7-day frequency.	[-10000 to 10000]	0.0001	32767	Int16
ndvi_std	Standard deviation of the averaged NDVI over the 1999-2012 period. It represents the inter-annual variability of the mean NDVI for each 7-day period.	[0 to 10000]	0.0001	-1	Int16
ndvi_status	Status of the pixel; 0: invalid, 1 : land , 2 : water, 3 : snow, 4 : cloud , 5 : filled ice	[1 to 5]	1.0	-1 0: invalid value	Int16
ndvi_nYearObs	Number of valid and cloud-free weekly composites contributing to each 7-day period of the AggMean and Std series. It is a quality indicator of the mean and std estimates.	[0 to 14]	1.0	-1	Int16

- The burned areas product consists of 52 NetCDF files with 2 bands whose total size reaches 6 GB. The NetCDF file description of a single file is summarized in the table below:

BA Condition Series	Description	Valid values Range	Scaling Factor	NaN value	Pixel depth
ba_occ	Percentage of burned areas occurrence as detected over the 2000-2012 period on a 7-day basis. This describes the reference behavior of the burned areas dynamic at a 7-day frequency.	[0 to 100]	1.0	-2	Int8
ba_nYearObs	Number of valid and cloud-free weekly composites contributing to each 7-day period of the AggOcc series. It is a quality indicator of the occurrence values.	[0 to 13]	1.0	-1	Int8

- The snow product consists of 52 NetCDF files with 2 bands whose total size reaches 9 GB. The NetCDF file description of a single file is summarized here below:

Snow Condition Series	Description	Valid values Range	Scaling Factor	NaN value	Pixel depth
snow_occ	Percentage of the snow occurrence as detected over the 2000-2012 period on a 7-day basis. This describes a reference of the snow dynamic at a 7-day frequency.	[0 to 100]	1.0	-1 -2: filled water	Int8
snow_nYearObs	Number of valid and cloud-free weekly composites contributing to each 7-day period of the AggOcc series. This is a quality indicator of the occurrence values.	[0 to 13]	1.0	-1	Int8