Quick Start Guide

NaturaSat v2.1.4 - Trial version



Contents

User interface	3
Main menu	4
Remote data manager	5
Habitat manager	6
Viewer for loaded data	7
Preview map	9
Data Explorer	10
Curve explorer	11
Properties	14
Tools	16
Filtering tool	16
Semi-automatic segmentation	18
Automatic segmentation	20
Monitoring	24
Show statistics	25

User interface



Component	Description		
	It contains menu actions for managing data and		
Main Menu and Main Menu Toolbar	curves, as well as actions for customizing the user		
	interface.		
Viewer for Loaded Data	It displays data selected in the Data Explorer.		
List and Settings for Files and Curves	It contains the Data Explorer for managing Sentinel-2		
	data, the Curve Explorer for managing curve sets and		
	curves, and Properties for adjusting the visualization		
	settings of data and curves.		
	It displays the preview image of the data selected in		
Preview Map	the Data Explorer, with the visualized area visible in		
	the Viewer for Loaded Data.		
Taal	It contains the settings and controls for NaturaSat		
1001	software tools.		

Main menu



Component	Description
	This main menu action allows loading one or more
Open file/files	files into the Data Explorer directly from the selected
	folder.
	This main menu action shows the module that allows
Remote data manager	downloading files from remote servers and saving
	them to the selected folder.
	This main menu action shows the module that allows
Habitat manager	adding and modifying the phytosociological relevés of
	the habitats stored in a .csv database file.
	A group of buttons for showing or hiding the windows
Show/Hide windows of user interface	of the user interface, such as Preview Map, Data
	Explorer, Curve Explorer, etc.
Zoom imago	Buttons for zooming in/out the image visible in the
Zoominiage	Viewer for Loaded Data.
	When this button is active, the left tab with the image
Link left <-> right	is synchronized with the right tab with the image
	(zoom, position, etc.).

Remote data manager



Component	Description		
	To use the Remote Data Manager, a login is necessary.		
	The username and password are the same as those for		
	the Copernicus Data Space Ecosystem. For		
	registration, visit <u>https://dataspace.copernicus.eu/</u> .		
Location selection	It allows the selection of a region with a rectangular		
	bounding box grid using left mouse button clicks.		
	It contains the parameters, such as sensing date, cloud		
Filter parameters	coverage, and product type, for searching on the		
	Copernicus Data Space Ecosystem for available		
	Sentinel-2 images.		
	It shows the search results list from the Copernicus		
	Data Space Ecosystem with the chosen Filter		
Results	parameters. There is the possibility to download		
	multiple images by checking the checkboxes and		
	pressing the download button.		
Directory	All selected images will be downloaded to the selected		
	Directory.		
	When an entry from the Results list is selected, the		
Information about the selected file	information and Preview map will be shown in the		
	Information about the Selected File section.		

<u>Habitat manager</u>

<u>#</u>	Habitat manag	jer						Manag		h		ı ×
File		Menu						Ivianag	gement	buttons		
	L	menta									+Add Plot 🗙 Re	move Plot
	Plot ID	Natura 2000	EUNIS	Habitat	Syntaxon	Community	Latitude	Longitude	Date	Altitude(m)	Aspect(degrees)	Sio 🔨
1	636107	6150	G1.111	Siliceous alpine and boreal		<u> </u>	Tabla	habitat		1417	23	5
2	637203	6150		Siliceous alpine			rable	nabitat		1460	23	5
3	637204	6150		Siliceous alpine			vie	ewer		1440	23	15
4	637205	6150		Siliceous alpine		L	49,19561111	19.00930556		1440	360	15
	637205	6150		and boreal Siliceous alpine			40.40542000	10.00550550		1440	220	
,	637206	6150		and boreal Siliceous alpine			49.19515889	19.00663689		1490	550	2
6	637207	6150		and boreal			49.18008333	18.99330556		1614	158	5
7	717397	6150		and boreal			49.18136111	18.99322222		1665	360	2
8	717400	6150		Siliceous alpine and boreal			49.18186111	18.99294444		1650	338	3
9	629114	6170		Alpine and subalpine			49.23163889	19.09991667		1606	360	45
10	629115	6170		Alpine and			49.23141667	19.09838889		1605	338	40
11	629116	6170		Alpine and			49.23408333	19.10330556		1512	23	65
12	629117	6170		Alpine and			49.18802778	19.05175		1640	23	20
12	620119	6170		subalpine Alpine and			40 19947222	10.05162990		1605	260	20
	629110	6170		subalpine Alpine and			49.10047222	19.05165669		1005	500	50
14	629119	6170		subalpine			49.18905556	19.05075		1595	45	35
15	629120	6170		subalpine			49.18263889	18.98858333		1585	360	35
16	629121	6170		subalpine			49.18275	18.98813889		1585	360	50
17	629122	6170		Alpine and subalpine			49.18269444	18.98833333		1584	360	40
18	629123	6170		Alpine and subalpine			49.18269444	18.9945		1640	338	50
19	629124	6170		Alpine and			49.18341667	18.99697222		1618	338	30
20	629125	6170		Alpine and			49,18330556	18.99627778		1620	315	40
21	620126	6170		Subalpine Alpine and			49 19072222	19.0535		1478	270	50
21	023120	0170		subalpine			-3.13072222	19.0555		1710	210	×
<												>
Filter	ing											

Filter string

Component	Description		
Menu	It contains a menu action for loading the data from a .csv database file to the <i>Table Habitat Viewer</i> and a menu action for saving modifications.		
Management buttons	The Add Plot button is used for creating a new row in the Table habitat viewer, and it is necessary to fill this new row with information for the new habitat relevés. The Remove Plot button is used for removing the selected row from the Table habitat viewer.		
Table habitat viewer	The table contains information for all habitat relevés from the loaded .csv database.		
Filter string	Allows entering a filter condition. Only entries that fulfill these conditions will be listed in the <i>Table habitat viewer</i> .		



Navigation panel

Component	Description			
	It is possible to show two tabs with images of loaded data			
Tabs	simultaneously. There is a button with a plus symbol beside the first			
1803	tab for creating the second tab. Both tabs can be seen in the Exam			
	Viewer for Loaded Data with Two Tabs.			
	Here, the image of the data selected from the Data Explorer is shown.			
Looded data	Hold the Left Mouse Button +	Moves the shown image through the		
	Move the Mouse	whole loaded data.		
	Scroll with the Mouse Wheel	Zooms in or out on the shown data.		
Novigation nanal	It contains the GPS coordinates of the pixel where the mouse cursor is			
Navigation panel	located, the North indicator, and the scale of the shown data.			

Example: Viewer for loaded data with two Tabs



Component	Description		
	It is possible to show two tabs with images of loaded		
	data simultaneously. This example shows two tabs		
Tabs	with loaded data from the same location but on		
	different dates. There is a button with a minus symbol		
	beside the first tab for closing the second tab.		

Preview map



Component	Description
Visible area	The area of the visible image of the loaded data in the <i>Viewer for Loaded Data</i> .
Working area	The working area represents the area of the data where software <i>Tools</i> can be used.

Data Explorer



Component	Description			
List of files	It contains a list of all loaded data.			
Selected file	If a file is selected, it is shown in the Loaded Data in the <i>Viewer for</i> Loaded Data.			
	Right-clicking on a file in the List of Files opens the context m			
File context menu	Delete	Deletes the specified files from the List of Files in the Data Explorer. If one of the specified files for deletion is the Selected File, it will be closed in the Viewer for Loaded Data.		
	Load image data	Loads a new file into the application.		
	Save Saves a copy of the select			
Double-click the Left Mouse Button	Double-clicking the left mouse button on a file in the <i>List of Files</i> will make that file the <i>Selected File</i> and will make it visible in the <i>Loaded Data</i> in the <i>Viewer for Loaded Data</i> .			

Curve explorer



Component	Description			
	It contains a list of all loaded curves for the selected			
	file in the Data Explorer. There is a specific hierarchy			
List of curves	in the List of Curves: it consists of curve sets, each			
	containing one or multiple curves. In the example, the			
	third loaded curve set contains three curves.			
Curve type It provides information about the type of the				
	If the checkbox is checked, the curve set (with all			
	curves) or the single curve is shown in the Loaded			
Show/hide the curve	Data in the Viewer for Loaded Data. If the checkbox is			
	not checked, the curve set (with all curves) or the			
	single curve is hidden.			
	Double-clicking the left mouse button on a curve set			
Double-Click the Left Mouse Button	or curve from the List of Curves will set that curve set			
	or curve as active and will focus the image in the			
	Viewer for Loaded Data on that curve set or curve.			

Curves explorer Name Type S1E0_cioo1_final.kml S1E0_cioo1_final.kml S1E0_cioo2_final.kml S1E0_cioo2_final.kml S1E0_coo2_final Cosed Curve Adjust Codel adjust Contex Adjust Contex Copy to Delete Hide selected Show selected Rename Save curve set as Inner Data Explorer Curves explorer	e set Curve t menu m	Curves explorer Name StD_cicov1,final_kml StD_cicov1,final_kml StD_cicov1,final_closed StD_topac1,final_closed Curve_1.0 closed Curve_1.1 closed Curve_1.2 closed Cur	
Component	Description		
	Right-clicking on a curve set or curve context menu. Load curves	e in the List of Curves opens the This context menu action allows loading one or multiple curves into the <i>Curve Explorer</i> directly from the selected folder.	
	Adjust	This context menu action allows adjusting selected curve sets or curves. When adjusting a curve set, all curves in the set are adjusted.	
Curve set/Curve context menu	Local adjust	This context menu action allows adjusting part of a selected curve set or curve. The first click of the left mouse button sets the first point defining the adjustment part. When adjusting a curve set, the first click also determines the specific curve to be adjusted. The second click of the left mouse button sets the second point defining the adjustment part. The third click of the left mouse button determines which part of the curve will be adjusted. Mouse movement then adjusts the selected part. The last click of the left mouse button ends the local adjustment. The adjustment can be canceled by clicking the right mouse button. This context menu action allows	
	Change color	changing the color of the selected curve sets or curves. When	

changing the color of a curve set, all curves in the set will have the

		same color as the curve set.
		different colors.
		This context menu action allows
	Copy to	copying the selected curve sets or curves to another file in the <i>Data</i>
		Explorer.
	Delete	This context menu action allows deleting the selected curve sets or curves.
	Hide selected	This context menu action allows hiding the selected curve sets or curves. When hiding a curve set, all curves in the set will be hidden.
	Show selected	This context menu action allows showing the selected curve sets or curves. When showing a curve set, all curves in that set will be shown.
		This context menu action allows
	Rename	renaming one selected curve set
		or curve.
	Save curve set as / Save curve as	This context menu action allows saving the curve set as a .kml file.
	Set curve as curve set	This context menu action allows setting the selected curves as new curve sets and adding the new curve sets to the <i>List of Curves</i> . This action is available only in the curves context menu.
	Inner	This context menu action allows setting the selected curve sets or curves as inner. When setting a curve set as inner, all curves in that set will be set as inner. Curves within a curve set can have different inner states.

Properties



Component	Description	
Channels option	Show type	Allows choosing between two display types: <i>Single Channel</i> – the image in the <i>Viewer for Loaded</i> <i>Data</i> consists of one optical channel, or <i>Multiple Channels</i> – the image in the <i>Viewer for</i> <i>Loaded Data</i> consists of three optical channels.
	Channel	Contains the names of all available optical channels from the loaded Sentinel-2 image. This choice is possible in both single and multiple display types.
Crop histogram	Bottom crop [%]	Sets the bottom boundary for the crop histogram. Image intensities below this boundary will be set to zero.
	Top crop [%]	Sets the top boundary for the crop histogram. Image intensities above this boundary will be set to one.
Curves colors	Curve width (px)	Sets the width of the line representing the curve in the <i>Viewer for Loaded Data</i> .
	Current segment color	Sets the color of the current segment during semi-automatic segmentation.

	Active curve color	Sets the color of the selected curve set or curve.
	Default inactive curve color	Sets the color of the non-selected curve set or curve.
	Show	Show/hide habitat plot marks.
	Select file	Select the .CSV file of the habitat marks database.
	Select habitat/plot	Select the active habitat/plot.
Habitat plot marks	Radius for Init from Habitat Plot Mark	Radius of the initial circle for automatic segmentation with the center in the selected active habitat mark.
	Init Circle from Selected Plot	Create an initial circle curve with the selected radius.
Style of habitat plot marks	Plot width	Width of the visible habitat plot mark.
	Plot color	Default color of the habitat plot mark.
	Selected plot color	Color of the selected active plot mark.

<u>Tools</u>

Filtering tool



Component	Description	
Feature functions	-	Allows choosing between two
	Feature to show	features: Filtered Image and Edge Detector for Nonlinear Diffusion.
	Show/hide feature	If the feature image is hidden, the button <i>Show Feature</i> will compute the feature from <i>Feature to Show</i> from data in the <i>Working Area</i>
		Filtering of Image and show it next to the Loaded Data in the Viewer for Loaded Data. If the feature image is shown, the button Hide Feature will close the feature image.
	Update image	If the feature image is shown, the button Update Image will update the feature from Feature to Show from data in the Working Area based on the parameters from Filtering of Image and redraw the shown feature image.
	Туре	Allows choosing between three types of filtration: Linear, Nonlinear, and Geometric-MCF.
Filtering of image	Parameters of filtration	Depending on the chosen type of filtration, the parameters differ. In the case of Linear Diffusion, the parameter for the length of the filtration needs to be set. In the case of Nonlinear or Geometric-MCF, the length of prefiltration of the data for the edge detector and the sensitivity

	of the edge detector need to be set,
	as well as the length of the final
	filtration.

Example: Loaded Data with Feature image in the Viewer for Loaded Data



Component	Description	
	Contains the image of the selected feature function	
Feature image	for the software tools. The visualization of the feature	
reature image	functions allows tuning the parameters of the	
	software tools.	

Semi-automatic segmentation



Component	Description	
	The button New initializes the semi-automatic segmentation. The semi-	
	automatic segmentation is prepared in the background based on the	
	parameters from Filtering for Edg	e Detector, Edge Detector, and
	Segmentation Settings. The semi-automatic segmentation starts by	
	clicking the left mouse button in the <i>Loaded Data</i> in the <i>Viewer for</i>	
New segmentation	Loaded Data. Another click of the	eleft mouse button in the Loaded Data
	in the Viewer for Loaded Data cre	ates one segment of the semi-
	automatic segmentation. The seg	mentation ends by clicking the right
	mouse button in the Loaded Date	n in the Viewer for Loaded Data. If the
	final curve needs to be a closed curve, the last segment must end at the	
	same point as the starting point of the first segment.	
	It is possible to continue an unclosed curve that was previously started.	
	First, select the unclosed curve in the List of Curves in the Curve	
Continue in curve	Explorer. Then, clicking the Continue button allows continuing the semi-	
	automatic segmentation of that selected curve. In the example, the	
	Continue button is unavailable because the selected curve is closed.	
		Allows choosing between three
	Feature to show	features: Filtered Image for Edge
		Detector, Edge Detector, and Norm
		of Vector Field.
Feature functions		If the feature image is hidden, the
	Show/hide feature	Show Feature button will compute
		the feature from Feature to Show
		from data in the Working Area
		based on the parameters from

		Filtering for Edge Detector and Edge
		Detector and show it peyt to the
		Loaded Data in the Viewer for
		Loaded Data If the feature image is
		shown the Hide Feature button will
		close the feature image
		If the feature image is shown the
		Indate Image button will undate
		the feature from Feature to Show
		from data in the Working Area
	Update image	hased on the parameters from
		Filtering for Edge Detector and Edge
		Detector and redraw the shown
		feature image
		Allows choosing botwoon three
	Туре	types of filtration: Linear, Nonlinear
	туре	and Goometric MCE
Filtering for edge detector		Depending on the chosen type of
	Parameters of filtration	filtration, the parameters can differ
		(see <i>Filtering Teel</i>)
		(see Filtering Tool).
Edge detector	data	ameter for detecting the edges in the
		Allows satting the lovel of surveture
		Allows setting the level of curvature
	Curvature influence	influence in the semi-automatic
		Allows shoesing between two types
	Initial condition	Allows choosing between two types
	initial condition	of Initial conditions: Gradient-Driven
		lf the checkbox is checked, the
		in the checkbox is checked, the
	Evolve segment	the creation of one cogmont in the
		somi automatic cognontation
		If the Fuelue Cogment checkbox is
		if the Evolve Segment checkbox is
Sogmontation softings		checked, the Auto Stop checkbox is
Segmentation settings	Auto stop	chabled. If the Auto Stop checkbox is
	Autostop	checked during the evolution of one
		segment, the evolution is
		the stepping criterien
		the stopping criterion.
		Represents the threshold value
		necessary to close the current semi-
		automatic curve automatically. If the
	Magnet threshold (px)	distance between the mouse cursor
		and the first point in the first
		segment is smaller than the Magnet
		Inreshold, the curve will be closed
		automatically.

Automatic segmentation



Component	Description
Init circle	The <i>Init Circle</i> button creates a circle curve, which can be used as an initial curve for automatic segmentation. The first click of the left mouse button in the <i>Loaded Data</i> in the <i>Viewer for Loaded Data</i> sets the circle center, and the second click sets the size of the circle.
lnit square	The <i>Init Square</i> button creates a square curve, which can be used as an initial curve for automatic segmentation. The first click of the left mouse button in the <i>Loaded Data</i> in the <i>Viewer for Loaded Data</i> sets the square center, and the second click sets the size of the square.
Init polygon	The <i>Init Polygon</i> button creates a polygon, which can be used as an initial curve for automatic segmentation. The first click of the left mouse button in the <i>Loaded Data</i> in the <i>Viewer for Loaded Data</i> sets the first point of the polygon, and the subsequent clicks set the other vertices. Clicking near the first point with the left mouse button will close the polygon.

Evolve Segmentation channel	For automatic segmentation, a curve must be selected from the <i>List of</i> <i>Curves</i> in the <i>Curve Explorer</i> . Then the automatic segmentation starts by clicking the <i>Evolve</i> button. Evolution is computed according to the parameters from <i>Filtering for Edge Detector, Edge Detector, Vector</i> <i>Field, Homogeneity Detector, Expanding Force,</i> and <i>Segmentation</i> <i>Settings</i> . All curves set as inner curves will shrink during the evolution. Contains the names of all available optical channels from the loaded Sentinel-2 image. It allows the choice of the optical channel for	
	automatic segmentation.	
Feature functions	Feature to show	Allows choosing between six features: Filtered Image for Edge Detector, Edge Detector, Norm of Vector Field, Filtered Image for Homogeneity Detector, Homogeneity Detector, and Expanding Force.
	Show/hide feature	If the feature image is hidden, the Show Feature button will compute the feature from Feature to Show from data in the Working Area based on the parameters from Filtering for Edge Detector, Edge Detector, Vector Field, Homogeneity Detector, and Expanding Force, and show it next to the Loaded Data in the Viewer for Loaded Data. If the feature image is shown, the Hide Feature button will close the feature image.
	Update image	If the feature image is shown, the Update Image button will compute the feature from Feature to Show from data in the Working Area based on the parameters from Filtering for Edge Detector, Edge Detector, Vector Field, Homogeneity Detector, and Expanding Force, and redraw the shown feature image.
Filtering for edge detector	Туре	Allows choosing between three types of filtrations: Linear, Nonlinear, and Geometric-MCF.
	Parameters of filtration	Depending on the chosen <i>Type</i> of filtration, the parameters differ (see Filtering Tool).
Edge detector	Allows setting the sensitivity parameter for detecting the edges in the	
Vector field	Filter type	Allows choosing between three types of filtrations for vector field: Linear, Nonlinear, and Geometric- MCF.

	Parameters of filtration	Depending on the chosen Filter type of filtration, the parameters differ (see Filtering Tool).
	Filter type	Allows choosing between three types of filtrations for homogeneity detector: Linear, Nonlinear, and Geometric-MCF.
	Parameters of filtration	Depending on the chosen Filter type of filtration, the parameters differ (see Filtering Tool).
Homogeneity detector	Function type	Allows choosing between two types of homogeneity functions: Discontinuous (mean) and Discontinuous (min/max). This choice affects the availability of the Eps parameter below.
	Eps (% from mean)	Allows setting the percentage share of homogeneous pixels around the mean value in the selected area. For example, the pixel will be considered homogeneous if it falls within an interval of 20% around the
	Use custom mean	mean value of the selected area. If the checkbox is checked, it is possible to set the mean value manually.
	Eps (from minmax)	Allows setting the percentage share of homogeneous pixels below the minimum value and above the maximum value in the selected area. This option is unavailable if the Function Type for the homogeneity detector is set to Discontinuous (mean).
	Use custom minmax	If the checkbox is checked, it is possible to set the minimum and maximum values manually.
Expanding force	Filter type	Allows choosing between three types of filtrations for expanding force: Linear, Nonlinear, and Geometric-MCF.
	Parameters of filtration	Depending on the chosen <i>Filter type</i> of filtration, the parameters differ (see Filtering Tool).
Segmentation settings	Total step	Represents the total number of time steps permitted for automatic segmentation.
	Variation time step	If the checkbox is checked, automatic segmentation can adapt the length of time steps.
	Auto stop	If the checkbox is checked during the evolution of the curve, that

	evolution is automatically stopped according to the stopping criterion.
Export interval	Allows exporting and adding preliminary curves to the <i>Curve</i> <i>Explorer</i> after the <i>Export Interval</i> time steps.
Curvature influence	Allows setting the level of curvature influence in the automatic segmentation.
Lambda	Represents the repartitioning of the influence of the Vector Field (attracting to the edge) and <i>Expanding Force</i> (expansion from the initial position). If Lambda is closer to one, the Vector Field term dominates. If Lambda is closer to zero, the <i>Expanding Force</i> term dominates.
Save inner curve	If the checkbox is checked and the exporting curve contains some inner curves, then the curve with all inner curves will be added to the <i>Curve Explorer</i> .

Monitoring

5		8 ×	
tering			
mi-automati	c segmentation		
utomatic segr	nentation		
onitoring			Show statistics
Controls			Show statistics
	Show Statistics	1/	Statistic differences
File:	S2A_MSIL2A_20181030T095121_N02 >	•	
File:	S2A_MSIL2A_20190418T095031_N02 >		
	Show Statistics differences		
File:	S2A_MSIL2A_20181030T095121_N02 >		Curve statistic differences
Curve:	91E0_bodikyprihradzi1_final >		
File:	S2A_MSIL2A_20190418T095031_N02 >	e	
Curve:	91E0_bodikyoprotibudke_final >	•	
	Area Monitoring		

Component	Description	Description				
Show statistics	The button <i>Show Statistics</i> ope statistics from all available opti image and all available loaded <i>Explorer</i> .	The button <i>Show Statistics</i> opens a new window for computing the statistics from all available optical channels from the loaded Sentinel-2 image and all available loaded curves in the <i>List of Curves</i> in the <i>Curve Explorer</i> .				
	File	Select the first file for the statistical differences.				
	File	Select the second file for the statistical differences. It must have the same geolocation as the first file.				
Statistic differences	Show statistics differences	The button Show Statistics Differences opens a new window for computing statistical differences from two selected files and for one selected loaded curve in the List of Curves in the Curve Explorer.				
	File and curve	Select the first file and one corresponding curve for area monitoring.				
Area monitoring		Select the second file and one corresponding curve for area monitoring. The second file must have the same geolocation as the first file.				
	Area monitoring	The button Area Monitoring opens a new window where the Hausdorff				

							distan comp	ce betwe uted.	en two ci	urves is
Show statistics										
Statistics from: Statistics	List of curv			es			Table of statistics			- U X
Curves		1	2	3	4	5	6	7	8	9
91E0_cicov1_final 91E0_kopac3_final	1		File name:	S2A_MSIL2A_20			File name:	S2A_MSIL2A_20		
curve_1	2		CurveSet name:	91E0_cicov1_final			CurveSet name:	91F0_kopac3_fi		
	3		Area[m^2] of	28642.898			Area[m^2] of	10657.633		
	4		Perimeter[m] o	329.827			Perimeter[m] o	179.534		
	5		Isoperimetric	3.309			lsoperimetric	4.155		
	6									
Select All Curves Unselect All Curves	7	Channel	Mean	Std	Min	Max	Mean	Std	Min	Max
Channels	*	aot Li	<u>st of cha</u>	nnels		71	70	0	70	70
AOT-Aerosol Optical Thickness B01-Aerosol detection	9	B01-Aerosol	252.397	11.4016	223	275	251.827	9.25955	237	275
B02-Blue	10	B02-Blue	243.16	34.6844	126	359	219.365	26.258	147	271
B04-Red	11	B03-Green	404.233	58.0107	206	544	357.692	34.3282	284	469
B05-Vegetation classification B06-Vegetation classification	12	B04-Red	263.174	37.6443	143	385	203.106	28.6521	146	268
B07-Vegetation classification	13	B05-Vegetation	646.38	73.7088	425	809	605.144	45.9319	476	715
Select All Channels Unselect All Channels	14	B06-Vegetation	2135.21	220.917	1313	2484	2342.52	163.903	1803	2746
	15	807-			773	3115	2955.81	228.429	2279	3406
Mean	16	B08-	st of stat	ISTICS	462	3444	3018.59	340.488	2386	3868
Std	17	B09-Water	2838.55	169.387	2545	3443	3217.98	81.8052	3115	3396
Min Max	18	B11-Snow / ice	1201.03	94.0448	821	1337	1406.31	88.8635	1217	1614
	19	B12-Snow / ice	514.645	50.2778	316	623	577.635	46.8071	491	673
	20	B8A-Vegetation	2863.93	264.707	1960	3317	3218.03	249.418	2505	3838
	21	CLD-Cloud map	0	0	0	0	0	0	0	0
	22	SCL-Scene	4	0	4	4	4	0	4	4
	23	SNW-Snow map	0	0	0	0	0	0	0	0
Select All Statistics Unselect All Statistics	24	WVP-Scene	2074.77	136.705	1486	2225	2070.12	41.4576	1944	2144
Compute Statistics	28	NDV Com	pute Hai	usdorff d	istance	0.853156	0.873287	0.0173895	0.818777	0.904647
Compute Hausdorff distance		com	pute nut		istunice	1				

Г

Component	Description				
Table of statistics	The table contains computed selected statistics from the <i>List of</i> <i>Statistics</i> for data from selected channels from the <i>List of Channels</i> for				
	selected curves from the List of Curves.				
	It contains the list of curve sets from the List of Curves in the Curve				
List of survos	Explorer. Clicking on a curve will exclude that curve from the				
List of curves	computation of statistics. In the example, <i>curve_1</i> is excluded from the				
	computation of statistics.				
	It contains the names of all available loaded file channels from the				
List of channels	Sentinel-2 image. Clicking on a channel will exclude that channel from				
	the computation of statistics.				
	It contains the names of possible statistics that can be computed in this				
List of statistics	module. Clicking on a statistic will exclude that statistic from the				
	computation of statistics.				
	If only two curves are selected in the List of Curves, it is possible to				
Compute Hausdorff distance	compute the Hausdorff distance between them by clicking on the				
	button Compute Hausdorff Distance.				