**DESCRIPTIVE FILE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **File name** | **Storage** | **Geometry** | **EPSG** | **Feature count** | **Size (MB)** |
| base\_urb\_cameta | ESRI Shapefile | Polygon (MultiPolygon) | 31982 | 1374 | 0.65 |
| clusters\_urb\_cameta | ESRI Shapefile | Polygon (MultiPolygon) | 31982 | 1374 | 0.65 |
| base\_urb\_santarem | ESRI Shapefile | Polygon (MultiPolygon) | 31981 | 6301 | 38.59 |
| clusters\_urb\_santarem | ESRI Shapefile | Polygon (MultiPolygon) | 31981 | 6301 | 2.88 |

**Description:** cellular grids of the occupied area with the urban morphological dimension variables and classification of the cities of Santarém and Cametá, PA - Brazil.

**Data source for creating the variables:**

* Land cover classification: amazonULC (Santos et al., 2023).
* Access: OpenStreetMap (OSM, 2021) and amazonULC (Santos et al., 2023).
* Block and occupation areas: OpenStreetMap (OSM, 2021).
* Textural Information: Extracted from multispectral images (8 meters spatial resoltuion) from the WPM sensor of the CBERS-4 satellite. For Santarém, we used an image dated 11/09/2020 (path: 219, row: 116). For Cametá, we used an image dated 09/15/2020 (path: 212, row: 116) (INPE, 2019).
* Built-up area period information: Global Human Settlement Layer (GHSL) Data Package (Schiavina et al., 2022).

**Reference**

INPE. (2019, December 6). *Câmeras Imageadoras CBERS-4A*. INPE. http://www.cbers.inpe.br/sobre/cameras/cbers04a.php

OSM. (2021). *OpenStreetMap*. https://www.openstreetmap.org/#map=4/-15.13/-53.19

Santos, B. D. dos, Pinho, C. M. D. de, Amaral, S., & Paez, A. (2023). amazonULC: A Data Package with Urban Land Cover Classifications for a  Selection of Cities in the Brazilian Amazon. *Environment and Planning B*, 1–8.

Schiavina, M., Melchiorri, M., Pesaresi, M., Politis, P., Freire, S., Maffenini, L., Florio, P., Ehrlich, D., Goch, K., & Tommasi, P. (2022). GHSL Data Package 2022. https://doi.org/doi:10.2760/19817

Table 1 – Urban morphological dimension variables and information about the evaluation criteria, type, and description of the features.

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature** | **Criteria** | **Type** | **Description** |
| ID | - | Integer64 | Unique identifier of the cell. |
| A\_CON\_MAX | Access | Real | Maximum angular connectivity of the access, considering all accesses within a 50 km radius of the area. |
| A\_CON\_MEAN | Access | Real | Average angular connectivity of the access, considering all accesses within a 50 km radius of the area. |
| A\_CON\_MIN | Access | Real | Minimum angular connectivity of the access, considering all accesses within a 50 km radius of the area. |
| A\_CON\_SUM | Access | Real | Sum of angular connectivity of the access, considering all accesses within a 50 km radius of the area. |
| A\_CON\_WA | Access | Real | Area-weighted angular connectivity of the access, considering all accesses within a 50 km radius of the area. |
| A\_CON\_WSA | Access | Real | Area-weighted sum of angular connectivity of the access, considering all accesses within a 50 km radius of the area. |
| AREA\_PERI | Blocks and occupation areas | Real | Ratio between the area and the perimeter of the block. |
| ASM\_MAX | Access, Blocks and occupation areas, and Roofs | Real | Maximum value of the Angular Second Moment (ASM, also called Uniformity). This is a measure of local homogeneity. |
| ASM\_MEAN | Access, Blocks and occupation areas, and Roofs | Real | Average value of the Angular Second Moment (ASM, also called Uniformity). This is a measure of local homogeneity. |
| ASM\_MIN | Access, Blocks and occupation areas, and Roofs | Real | Minimum value of the Angular Second Moment (ASM, also called Uniformity). This is a measure of local homogeneity. |
| ASM\_RANGE | Access, Blocks and occupation areas, and Roofs | Real | Range value of the Angular Second Moment (ASM, also called Uniformity). This is a measure of local homogeneity. |
| ASM\_SUM | Access, Blocks and occupation areas, and Roofs | Real | Sum value of the Angular Second Moment (ASM, also called Uniformity). This is a measure of local homogeneity. |
| ASM\_VAR | Access, Blocks and occupation areas, and Roofs | Real | Variance value of the Angular Second Moment (ASM, also called Uniformity). This is a measure of local homogeneity. |
| AWMPFD\_BUP | Roofs and access | Real | AWMPFD stands for Area-weighted Mean Patch Fractal Dimension of the built up land cover classes. |
| AWMSI\_BUP | Roofs and access | Real | Area-Weighted Mean Shape Index. Calculated for the the built up land cover classes. |
| AXIAL\_MAX | Access | Real | Maximum axial line of the access, considering all accesses within a 50 km radius of the area. |
| AXIAL\_MEAN | Access | Real | Average axial line of the access, considering all accesses within a 50 km radius of the area. |
| AXIAL\_MIN | Access | Real | Minimum axial line of the access, considering all accesses within a 50 km radius of the area. |
| AXIAL\_SUM | Access | Real | Sum of axial line of the access, considering all accesses within a 50 km radius of the area. |
| AXIAL\_WA | Access | Real | Area-weighted axial line of the access, considering all accesses within a 50 km radius of the area. |
| AXIAL\_WSA | Access | Real | Area-weighted sum of axial line of the access, considering all accesses within a 50 km radius of the area. |
| BIA\_BUP | Roofs and access | Real | Biggest Intersection Area of the built up land cover classes. |
| BUILT\_UP | Blocks and occupation areas and roofs | Real | Total built-up area in the block or occupation area. |
| BUP\_DENS | Blocks and occupation areas and roofs | Real | Built-up area divided by the total area of the block or occupation area. |
| CA\_As | Access | Real | Total area of the asphalt road coverage class. |
| CA\_BUP | Roofs and access | Real | Total area of the built-up area cover classes. |
| CA\_Ce | Roofs | Real | Total area of the ceramic roof coverage class. |
| CA\_FC | Roofs | Real | Total area of the fiber ciment roof coverage class. |
| CA\_HG | Roofs | Real | Total area of high gloss. |
| CA\_Te | Access | Real | Total area of the terrain road coverage class. |
| CH\_1K\_MAX | Access | Real | Maximum choice (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_1K\_MEAN | Access | Real | Average choice (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_1K\_MIN | Access | Real | Minimum choice (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_1K\_SUM | Access | Real | Sum of choice (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_1K\_WA | Access | Real | Area-weighted choice (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_1K\_WSA | Access | Real | Area-weighted sum of choice (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_500\_MAX | Access | Real | Maximum choice (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_500\_MEA | Access | Real | Average choice (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_500\_MIN | Access | Real | Minimum choice (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_500\_SUM | Access | Real | Sum of choice (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_500\_WA | Access | Real | Area-weighted choice (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_500\_WSA | Access | Real | Area-weighted sum of choice (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_5K\_MAX | Access | Real | Maximum choice (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_5K\_MEAN | Access | Real | Average choice (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_5K\_MIN | Access | Real | Minimum choice (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_5K\_SUM | Access | Real | Sum of choice (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_5K\_WA | Access | Real | Area-weighted choice (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_5K\_WSA | Access | Real | Area-weighted sum of choice (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_MAX | Access | Real | Maximum choice (n) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_MEAN | Access | Real | Average choice (n) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_MIN | Access | Real | Minimum choice (n) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_SUM | Access | Real | Sum of choice (n) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_WA | Access | Real | Area-weighted choice (n) of the access, considering all accesses within a 50 km radius of the study area. |
| CH\_WSA | Access | Real | Area-weighted sum of choice (n) of the access, considering all accesses within a 50 km radius of the study area. |
| CON\_MAX | Access | Real | Maximum Connectivity (n) of the access, considering all accesses within a 50 km radius of the study area. |
| CON\_MEAN | Access | Real | Average Connectivity (n) of the access, considering all accesses within a 50 km radius of the study area. |
| CON\_MIN | Access | Real | Minimum Connectivity (n) of the access, considering all accesses within a 50 km radius of the study area. |
| CON\_SUM | Access | Real | Sum of Connectivity (n) of the access, considering all accesses within a 50 km radius of the study area. |
| CON\_WA | Access | Real | Area-weighted Connectivity (n) of the access, considering all accesses within a 50 km radius of the study area. |
| CON\_WSA | Access | Real | Area-weighted sum of Connectivity (n) of the access, considering all accesses within a 50 km radius of the study area. |
| COR\_MAX | Access, Blocks and occupation areas, and Roofs | Real | Maximum value of the Correlation. This measure analyses the linear dependency of grey levels of neighboring pixels. Typically high, when the scale of local texture is larger than the distance. |
| COR\_MEAN | Access, Blocks and occupation areas, and Roofs | Real | Average value of the Correlation. This measure analyses the linear dependency of grey levels of neighboring pixels. Typically high, when the scale of local texture is larger than the distance. |
| COR\_MIN | Access, Blocks and occupation areas, and Roofs | Real | Minimum value of the Correlation. This measure analyses the linear dependency of grey levels of neighboring pixels. Typically high, when the scale of local texture is larger than the distance. |
| COR\_RANGE | Access, Blocks and occupation areas, and Roofs | Real | Range value of the Correlation. This measure analyses the linear dependency of grey levels of neighboring pixels. Typically high, when the scale of local texture is larger than the distance. |
| COR\_SUM | Access, Blocks and occupation areas, and Roofs | Real | Sum value of the Correlation. This measure analyses the linear dependency of grey levels of neighboring pixels. Typically high, when the scale of local texture is larger than the distance. |
| COR\_VAR | Access, Blocks and occupation areas, and Roofs | Real | Maximum value of the Correlation. This measure analyses the linear dependency of grey levels of neighboring pixels. Typically high, when the scale of local texture is larger than the distance. |
| COT\_MAX | Access, Blocks and occupation areas, and Roofs | Real | Maximum value of the Constrast. This measure analyses the image contrast (locally gray-level variations) as the linear dependency of grey levels of neighboring pixels (similarity). |
| COT\_MEAN | Access, Blocks and occupation areas, and Roofs | Real | Average value of the Constrast. This measure analyses the image contrast (locally gray-level variations) as the linear dependency of grey levels of neighboring pixels (similarity). |
| COT\_MIN | Access, Blocks and occupation areas, and Roofs | Real | Minimum value of the Constrast. This measure analyses the image contrast (locally gray-level variations) as the linear dependency of grey levels of neighboring pixels (similarity). |
| COT\_RANGE | Access, Blocks and occupation areas, and Roofs | Real | Range value of the Constrast. This measure analyses the image contrast (locally gray-level variations) as the linear dependency of grey levels of neighboring pixels (similarity). |
| COT\_SUM | Access, Blocks and occupation areas, and Roofs | Real | Sum value of the Constrast. This measure analyses the image contrast (locally gray-level variations) as the linear dependency of grey levels of neighboring pixels (similarity). |
| COT\_VAR | Access, Blocks and occupation areas, and Roofs | Real | Variance value of the Constrast. This measure analyses the image contrast (locally gray-level variations) as the linear dependency of grey levels of neighboring pixels (similarity). |
| DE\_MAX | Access, Blocks and occupation areas, and Roofs | Real | Maximum value of the Difference Entropy. |
| DE\_MEAN | Access, Blocks and occupation areas, and Roofs | Real | Average value of the Difference Entropy. |
| DE\_MIN | Access, Blocks and occupation areas, and Roofs | Real | Minimum value of the Difference Entropy. |
| DE\_RANGE | Access, Blocks and occupation areas, and Roofs | Real | Range value of the Difference Entropy. |
| DE\_SUM | Access, Blocks and occupation areas, and Roofs | Real | Sum value of the Difference Entropy. |
| DE\_VAR | Access, Blocks and occupation areas, and Roofs | Real | Variance value of the Difference Entropy. |
| DM\_MAX | Access, Blocks and occupation areas, and Roofs | Real | Maximum Data Map of the access, considering all accesses within a 50 km radius of the study area. |
| DM\_MEAN | Access, Blocks and occupation areas, and Roofs | Real | Average Data Map of the access, considering all accesses within a 50 km radius of the study area. |
| DM\_MIN | Access, Blocks and occupation areas, and Roofs | Real | Minimum Data Map of the access, considering all accesses within a 50 km radius of the study area. |
| DM\_SUM | Access, Blocks and occupation areas, and Roofs | Real | Sum of Data Map of the access, considering all accesses within a 50 km radius of the study area. |
| DM\_WA | Access, Blocks and occupation areas, and Roofs | Real | Area-weighted Data Map of the access, considering all accesses within a 50 km radius of the study area. |
| DM\_WSA | Access, Blocks and occupation areas, and Roofs | Real | Area-weighted sum of Data Map of the access, considering all accesses within a 50 km radius of the study area. |
| DV\_MAX | Access, Blocks and occupation areas, and Roofs | Real | Maximum value of the Difference Variance. |
| DV\_MEAN | Access, Blocks and occupation areas, and Roofs | Real | Average value of the Difference Variance. |
| DV\_MIN | Access, Blocks and occupation areas, and Roofs | Real | Minimum value of the Difference Variance. |
| DV\_RANGE | Access, Blocks and occupation areas, and Roofs | Real | Range value of the Difference Variance. |
| DV\_SUM | Access, Blocks and occupation areas, and Roofs | Real | Sum value of the Difference Variance. |
| DV\_VAR | Access, Blocks and occupation areas, and Roofs | Real | Variance value of the Difference Variance. |
| ED\_BUP | Roofs and access | Real | Edge Density of the built up land cover classes. |
| ENT\_MAX | Access, Blocks and occupation areas, and Roofs | Real | Maximum value of the Entropy. This measure analyses the randomness. It is high when the values of the moving window have similar values. |
| ENT\_MEAN | Access, Blocks and occupation areas, and Roofs | Real | Average value of the Entropy. This measure analyses the randomness. It is high when the values of the moving window have similar values. |
| ENT\_MIN | Access, Blocks and occupation areas, and Roofs | Real | Minimum value of the Entropy. This measure analyses the randomness. It is high when the values of the moving window have similar values. |
| ENT\_RANGE | Access, Blocks and occupation areas, and Roofs | Real | Range value of the Entropy. This measure analyses the randomness. It is high when the values of the moving window have similar values. |
| ENT\_SUM | Access, Blocks and occupation areas, and Roofs | Real | Sum value of the Entropy. This measure analyses the randomness. It is high when the values of the moving window have similar values. |
| ENT\_VAR | Access, Blocks and occupation areas, and Roofs | Real | Variance value of the Entropy. This measure analyses the randomness. It is high when the values of the moving window have similar values. |
| IDM\_MAX | Access, Blocks and occupation areas, and Roofs | Real | Maximum value of the Inverse Difference Moment. |
| IDM\_MEAN | Access, Blocks and occupation areas, and Roofs | Real | Average value of the Inverse Difference Moment. |
| IDM\_MIN | Access, Blocks and occupation areas, and Roofs | Real | Minimum value of the Inverse Difference Moment. |
| IDM\_RANGE | Access, Blocks and occupation areas, and Roofs | Real | Range value of the Inverse Difference Moment. |
| IDM\_SUM | Access, Blocks and occupation areas, and Roofs | Real | Sum value of the Inverse Difference Moment. |
| IDM\_VAR | Access, Blocks and occupation areas, and Roofs | Real | Variance value of the Inverse Difference Moment. |
| INT\_1K\_MAX | Access | Real | Maximum integration (R 1000m) of the access, considering all accesses within a 50 km radius of the study area, considering all access in a radius of 50 km of the study area. |
| INT\_1K\_MEA | Access | Real | Average integration (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_1K\_MIN | Access | Real | Minimum integration (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_1K\_SUM | Access | Real | Sum of integration (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_1K\_WA | Access | Real | Area-weighted integration (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_1K\_WSA | Access | Real | Area-weighted sum of integration (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_500\_MA | Access | Real | Maximum integration (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_500\_ME | Access | Real | Average integration (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_500\_MI | Access | Real | Minimum integration (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_500\_SU | Access | Real | Sum of integration (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_500\_WA | Access | Real | Area-weighted integration (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_500\_WS | Access | Real | Area-weighted sum of integration (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_5K\_MAX | Access | Real | Maximum integration (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_5K\_MEA | Access | Real | Average integration (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_5K\_MIN | Access | Real | Minimum integration (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_5K\_SUM | Access | Real | Sum of integration (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_5K\_WA | Access | Real | Area-weighted integration (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_5K\_WSA | Access | Real | Area-weighted sum of integration (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_MAX | Access | Real | Maximum integration (n) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_MEAN | Access | Real | Average integration (n) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_MIN | Access | Real | Minimum integration (n) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_SUM | Access | Real | Sum of integration (n) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_WA | Access | Real | Area-weighted integration (n) of the access, considering all accesses within a 50 km radius of the study area. |
| INT\_WSA | Access | Real | Area-weighted sum of integration (n) of the access, considering all accesses within a 50 km radius of the study area. |
| LACON\_MEAN | Access | Real | Average angular connectivity of the access, considering all accesses within a 50 km radius of the area. |
| LAXIAL\_MEA | Access | Real | Average axial line of the access, considering all accesses within a 50 km radius of the area. |
| LCH\_MEAN | Access | Real | Average choice of the access, considering only the accesses within the study area. |
| LCH1K\_MEAN | Access | Real | Average choice (R 1000m) of the access, considering only the accesses within the study area. |
| LCH500\_MEA | Access | Real | Average choice (R 500m) of the access, considering only the accesses within the study area. |
| LCH5K\_MEAN | Access | Real | Average choice (R 5000m) of the access, considering only the accesses within the study area. |
| LCON\_MEAN | Access | Real | Average connectivity of the access, considering only the accesses within the study area. |
| LDM\_MEAN | Access | Real | Average Data Map of the access, considering only the accesses within the study area. |
| LINT\_MEAN | Access | Real | Average integration of the access, considering only the accesses within the study area. |
| LINT1K\_MEA | Access | Real | Average integration (R 1000m) of the access, considering only the accesses within the study area. |
| LINT500\_ME | Access | Real | Average integration (R 500m) of the access, considering only the accesses within the study area. |
| LINT5K\_MEA | Access | Real | Average integration (R 5000m) of the access, considering only the accesses within the study area. |
| LNC\_MEAN | Access | Real | Average node count of the access, considering only the accesses within the study area. |
| LNC1K\_MEAN | Access | Real | Average node count (R 1000m) of the access, considering only the accesses within the study area. |
| LNC500\_MEA | Access | Real | Average node count (R 500m) of the access, considering only the accesses within the study area. |
| LNC5K\_MEAN | Access | Real | Average node count (R 5000m) of the access, considering only the accesses within the study area. |
| LSEGL\_MEAN | Access | Real | Average segment lenght of the access, considering only the accesses within the study area. |
| LSI\_BUP | Roofs and access | Real | Shape Index of the built up land cover classes. |
| LTD\_MEAN | Access | Real | Average total depth of the access, considering only the accesses within the study area. |
| LTD1K\_MEAN | Access | Real | Average total depth (R 1000m) of the access, considering only the accesses within the study area. |
| LTD500\_MEA | Access | Real | Average total depth (R 500m) of the access, considering only the accesses within the study area. |
| LTD5K\_MEAN | Access | Real | Average total depth (R 5000m) of the access, considering only the accesses within the study area. |
| MC1\_MAX | Access, Blocks and occupation areas, and Roofs | Real | Maximum value of the Information Measures of Correlation. |
| MC1\_MEAN | Access, Blocks and occupation areas, and Roofs | Real | Average value of the Information Measures of Correlation. |
| MC1\_MIN | Access, Blocks and occupation areas, and Roofs | Real | Minimum value of the Information Measures of Correlation. |
| MC1\_RANGE | Access, Blocks and occupation areas, and Roofs | Real | Minimum value of the Information Measures of Correlation. |
| MC1\_SUM | Access, Blocks and occupation areas, and Roofs | Real | Sum value of the Information Measures of Correlation. |
| MC1\_VAR | Access, Blocks and occupation areas, and Roofs | Real | Sum value of the Information Measures of Correlation. |
| MC2\_MAX | Access, Blocks and occupation areas, and Roofs | Real | Maximum value of Maximal Correlation Coefficient. |
| MC2\_MEAN | Access, Blocks and occupation areas, and Roofs | Real | Average value of Maximal Correlation Coefficient. |
| MC2\_MIN | Access, Blocks and occupation areas, and Roofs | Real | Minimum value of Maximal Correlation Coefficient. |
| MC2\_RANGE | Access, Blocks and occupation areas, and Roofs | Real | Range value of Maximal Correlation Coefficient. |
| MC2\_SUM | Access, Blocks and occupation areas, and Roofs | Real | Sum value of Maximal Correlation Coefficient. |
| MC2\_VAR | Access, Blocks and occupation areas, and Roofs | Real | Variance value of Maximal Correlation Coefficient. |
| MPAR\_BUP | Roofs and access | Real | Mean Perimeter Area Ratio of the built up land cover classes. |
| MPFD\_BUP | Roofs and access | Real | Mean Patch Fractal Dimension. Calculated for the the built up land cover classes. |
| MPS\_BUP | Roofs and access | Real | Mean Patch Fractal Dimension. Calculated for the the built up land cover classes. |
| MSI\_BUP | Roofs and access | Real | Mean Shape Index. Calculated for the the built up land cover classes. |
| NC\_1K\_MAX | Access | Real | Maximum node count (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_1K\_MEAN | Access | Real | Average node count (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_1K\_MIN | Access | Real | Minimum node count (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_1K\_SUM | Access | Real | Sum of node count (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_1K\_WA | Access | Real | Area-weighted node count (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_1K\_WSA | Access | Real | Area-weighted sum of node count (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_500\_MAX | Access | Real | Maximum node count (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_500\_MEA | Access | Real | Average node count (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_500\_MIN | Access | Real | Minimum node count (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_500\_SUM | Access | Real | Sum of node count (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_500\_WA | Access | Real | Area-weighted node count (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_500\_WSA | Access | Real | Area-weighted sum of node count (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_5K\_MAX | Access | Real | Maximum node count (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_5K\_MEAN | Access | Real | Average node count (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_5K\_MIN | Access | Real | Minimum node count (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_5K\_SUM | Access | Real | Sum of node count (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_5K\_WA | Access | Real | Area-weighted node count (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_5K\_WSA | Access | Real | Area-weighted sum of node count (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_MAX | Access | Real | Maximum node count (n) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_MEAN | Access | Real | Average node count (n) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_MIN | Access | Real | Minimum node count (n) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_SUM | Access | Real | Sum of node count (n) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_WA | Access | Real | Area-weighted node count (n) of the access, considering all accesses within a 50 km radius of the study area. |
| NC\_WSA | Access | Real | Area-weighted sum of node count (n) of the access, considering all accesses within a 50 km radius of the study area. |
| NP\_BUP | Roofs and access | Integer64 | Number of patches of the asphalt road coverage class. |
| NP\_Ce | Roofs | Integer64 | Number of patches of the ceramic roof coverage class. |
| NP\_FC | Roofs | Integer64 | Number of patches of the fiber ciment roof coverage class. |
| NP\_HG | Roofs | Integer64 | Number of patches of the high gloss coverage class. |
| PD\_BUP | Roofs and access | Real | Patch Density. Calculated for the the built up land cover classes. |
| PERIOD | Roofs and access | Real | Construction period of the built area. |
| PLAND\_BUP | Roofs and access | Real | It is equals the sum of the areas of all patches of the corresponding patch type (class), divided by total landscape area. It is equals to the percentage the landscape comprised of the corresponding patch type (class). Calculated for the the built up land cover classes. |
| PR | Roofs and access | Integer64 | PR stands for Patch Richness, which is equals the number of different patch types (classes) present within the landscape boundary. |
| PRD | Roofs and access | Real | PRD stands for Patch Richness Density, which is equals the number of different patch types present within the landscape boundary divided by total landscape area. |
| PSCOV\_BUP | Roofs and access | Real | Patch Size Coefficient of Variation. Calculated for the built up land cover classes. |
| PSSD\_BUP | Roofs and access | Real | Patch Size Standard Deviation. Calculated for the built up land cover classes. |
| ROAD\_REF\_M | Access | Real | Road referance. |
| ROOF\_ROAD | Access | Real | Roof road referance. |
| SA\_MAX | Access, Blocks and occupation areas, and Roofs | Real | Maximum value of the Sum Avarage. |
| SA\_MEAN | Access, Blocks and occupation areas, and Roofs | Real | Average value of the Sum Avarage. |
| SA\_MIN | Access, Blocks and occupation areas, and Roofs | Real | Minimum value of the Sum Avarage. |
| SA\_RANGE | Access, Blocks and occupation areas, and Roofs | Real | Range value of the Sum Avarage. |
| SA\_SUM | Access, Blocks and occupation areas, and Roofs | Real | Sum value of the Sum Avarage. |
| SA\_VAR | Access, Blocks and occupation areas, and Roofs | Real | Variance value of the Sum Avarage. |
| SE\_MAX | Access, Blocks and occupation areas, and Roofs | Real | Maximum value of the Sum Avarage. |
| SE\_MEAN | Access, Blocks and occupation areas, and Roofs | Real | Average value of the Sum Entropy. |
| SE\_MIN | Access, Blocks and occupation areas, and Roofs | Real | Minimum value of the Sum Entropy. |
| SE\_RANGE | Access, Blocks and occupation areas, and Roofs | Real | Standard Deviation of the Sum Entropy. |
| SE\_SUM | Access, Blocks and occupation areas, and Roofs | Real | Sum value of the Sum Entropy. |
| SE\_VAR | Access, Blocks and occupation areas, and Roofs | Real | Variance value of the Sum Entropy. |
| SEGL\_MAX | Access | Real | Maximum segment length of the access, considering all accesses within a 50 km radius of the study area. |
| SEGL\_MEAN | Access | Real | Average segment length of the access, considering all accesses within a 50 km radius of the study area. |
| SEGL\_MIN | Access | Real | Minimum segment length of the access, considering all accesses within a 50 km radius of the study area. |
| SEGL\_SUM | Access | Real | Sum of segment length of the access, considering all accesses within a 50 km radius of the study area. |
| SEGL\_WA | Access | Real | Area-weighted segment length of the access, considering all accesses within a 50 km radius of the study area. |
| SEGL\_WSA | Access | Real | Area-weighted sum of segment length of the access, considering all accesses within a 50 km radius of the study area. |
| SHAPE\_IND | Access | Real | Shape Index of the block or occupation area. It measures the complexity of patch shape compared to a standard shape. |
| SHDI | Roofs and access | Real | SHDI stands for Simpson's Diversity Index. |
| SV\_MAX | Access, Blocks and occupation areas, and Roofs | Real | Maximum value of the Sum Variance. |
| SV\_MEAN | Access, Blocks and occupation areas, and Roofs | Real | Average value of the Sum Variance. |
| SV\_MIN | Access, Blocks and occupation areas, and Roofs | Real | Minimum value of the Sum Variance. |
| SV\_RANGE | Access, Blocks and occupation areas, and Roofs | Real | Range value of the Sum Variance. |
| SV\_SUM | Access, Blocks and occupation areas, and Roofs | Real | Sum value of the Sum Variance. |
| SV\_VAR | Access, Blocks and occupation areas, and Roofs | Real | Variance value of the Sum Variance. |
| TABO\_BUP | Roofs and access | Real | Total Area of the Biggest Object that intersects the landscape. Calculated for the built up land cover classes. |
| TAOBIA\_BUP | Roofs and access | Real | Total Area of the Object with Biggest Intersection Area. Calculated for the built up land cover classes. |
| TD\_1K\_MAX | Access | Real | Maximum total depth (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_1K\_MEAN | Access | Real | Average total depth (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_1K\_MIN | Access | Real | Minimum total depth (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_1K\_SUM | Access | Real | Sum of total depth (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_1K\_WA | Access | Real | Area-weighted total depth (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_1K\_WSA | Access | Real | Area-weighted sum of total depth (R 1000m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_500\_MAX | Access | Real | Maximum total depth (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_500\_MEA | Access | Real | Average total depth (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_500\_MIN | Access | Real | Minimum total depth (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_500\_SUM | Access | Real | Sum of total depth (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_500\_WA | Access | Real | Area-weighted total depth (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_500\_WSA | Access | Real | Area-weighted sum of total depth (R 500m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_5K\_MAX | Access | Real | Maximum total depth (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_5K\_MEAN | Access | Real | Average total depth (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_5K\_MIN | Access | Real | Minimum total depth (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_5K\_SUM | Access | Real | Sum of total depth (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_5K\_WA | Access | Real | Area-weighted total depth (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_5K\_WSA | Access | Real | Area-weighted sum of total depth (R 5000m) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_MAX | Access | Real | Maximum total depth (n) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_MEAN | Access | Real | Average total depth (n) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_MIN | Access | Real | Minimum total depth (n) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_SUM | Access | Real | Sum of total depth (n) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_WA | Access | Real | Area-weighted total depth (n) of the access, considering all accesses within a 50 km radius of the study area. |
| TD\_WSA | Access | Real | Area-weighted sum of total depth (n) of the access, considering all accesses within a 50 km radius of the study area. |
| TE\_BUP | Roofs and access | Real | Total edges. Calculated for the built up land cover classes. |
| VAR\_MAX | Access, Blocks and occupation areas, and Roofs | Real | Maximum value of the Variance. Variance is a measure of gray tone variance within the moving window (second-order moment about the mean). |
| VAR\_MEAN | Access, Blocks and occupation areas, and Roofs | Real | Average value of the Variance. Variance is a measure of gray tone variance within the moving window (second-order moment about the mean). |
| VAR\_MIN | Access, Blocks and occupation areas, and Roofs | Real | Min value of the Variance. Variance is a measure of gray tone variance within the moving window (second-order moment about the mean). |
| VAR\_RANGE | Access, Blocks and occupation areas, and Roofs | Real | Range value of the Variance. Variance is a measure of gray tone variance within the moving window (second-order moment about the mean). |
| VAR\_SUM | Access, Blocks and occupation areas, and Roofs | Real | Sum value of the Variance. Variance is a measure of gray tone variance within the moving window (second-order moment about the mean). |
| VAR\_VAR | Access, Blocks and occupation areas, and Roofs | Real | Variance value of the Variance. Variance is a measure of gray tone variance within the moving window (second-order moment about the mean). |
| P\_80\_00 | Roofs and access | Real | Built-up area dated between 1980 and 2000. |
| P\_00\_20 | Roofs and access | Real | Built-up area dated between 2000 and 2020. |
| P\_75 | Roofs and access | Real | Built-up area dating from before 1970. |
| C\_URB | - | Integer64 | Clustering result using the urban dimension features. |