

Texture descriptors

Title Texture descriptors

Description

Calculates additional descriptive metrics, such as zonal vector ruggedness and aspect variability index, and optionally backscatter statistics.

Illustration



Usage

The “**Texture descriptors**” tool adds a few additional metrics that describe the quality of the surface, including zonal vector ruggedness measurement, aspect variability index and optionally backscatter statistics.

This tool can be used to describe any confined morphological features, regardless of the approach adopted to delineate them. Even manually mapped features can be characterised using this tool.

Syntax

Texture_descriptor_ (inputDEM, {in_backsc}, in_features, workspace, outFeat, {delTemp})

Parameter	Explanation	Data Type
inputDEM	Dialog Reference The DEM that will be used as input. There is no python reference for this parameter.	Raster Layer
in_backsc (Optional)	Dialog Reference Backscatter raster that will be used to describe the features based on their backscatter values. There is no python reference for this parameter.	Raster Layer
in_features	Dialog Reference Shapefile delineating the features to be described. This can be the output of one of CoMMA's delineation tools, manually mapped or obtained by another mapping approach. There is no python reference for this parameter.	Feature Layer

workspace	Dialog Reference Geodatabases cannot be used in this version of the CoMMa Toolbox. There is no python reference for this parameter.	Workspace
outFeat	Dialog Reference The name of the shapefile that will contain the additional fields calculated by this tool. There is no python reference for this parameter.	String
delTemp (Optional)	Dialog Reference When checked all the files within the temp folder will be deleted. There is no python reference for this parameter.	Boolean

Code Samples

There are no code samples for this tool.

Tags

Feature description.

Credits

Arosio, R., Gafeira, J. & De Clippele, L. (2023) CoMMa Toolbox - Version 1.0
 (<https://github.com/ricarosio/CoMMa/tree/main>)

Riccardo Arosio (University College Cork) and Joana Gafeira (British Geological Survey) conceived the original idea of the new ArcGIS Pro based on a previous toolbox created by Joana Gafeira, the BGS Seabed Mapping Toolbox (Gafeira, J., 2017). Riccardo Arosio wrote the Python scripts while Joana Gafeira and Laurence De Clippele performed extensive testing.

The tools development was mainly funded by INFOMAR through the Irish Marine Institute's research grant PDOC 19/08/03. The British Geological Survey and iAtlantic have also supported the creation of the toolbox.

Use limitations

CoMMa Toolbox may be freely distributed, modified and used commercially under the terms of its GNU LGPLv3 license.

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