

Department of Environmental Informatics.



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**Course Name: Species Distribution Modelling (SDM).** 

Software: Digitize IT.

Module: Pixel Classification.

#### **Software Tutorial**





Figure 3: Processing Steps [3]

2 [3]. Dr.Dirk Zeuss, Department of Geography, University of Marburg.





Figure 3: Processing Steps [3]

• Analysis of maps through detecting the legends based upon the contrast, shape and color in the maps is called pixel classification.







#### **Pixel Matching**

**Input Files** 



Figure 11: Batch Processing



## **Pixel Matching**

• Template Image

#### • Output Image







**Figure 13**: Pixel Templates



#### Threshold value = 0.9







#### Contour and Edge Detection Workflow





#### Contour and Edge Detection Workflow



Figure 16: Contour and Edge Detection in Butterflies of Siberian map









#### Execution time!.



#### Workflow of Pixel Classification



Figure 17: Workflow of Pixel Classification



## Workflow of Pixel Classification



Figure 17: Workflow of Pixel Classification



### Workflow of Pixel Classification



Figure 17: Workflow of Pixel Classification

