

Colony Selection and Filter (Step 2)

Title Colony Selection and Filter (Step 2)

Description

This tool is a follow up to the Multispectral Colony tool. This tool allows the user to identify which colonies were correctly (or incorrectly) identified by the first tool. The user can choose to either select the correct or the incorrect colonies. The user selects colonies but clicking to create a point within the polygons from the first tool. In the case where you need colony outlines to be overlayed with a different image that has a different extent, the user can draw in the polygons that outline any missing colonies. The tool will then clip out the colonies from the thermal imagery and run a highpass filter. The output of the highpass filter will be displayed at the end.

Usage

This tool is used to edit the results of the step 1 tool to ensure that only the polygons representing actual colonies are left. The tool is the second tool in 3 tool group that ultimately will be used to count the number of penguins on the island and calculate density per colony.

Syntax

ColonySelectionFilterStep2 (Input_Thermal_Image_File,
Would_you_like_to_select_CORRECT_or_INCORRECT_potential_colonies_, Create_Colony_Selection_Points,
Draw_Missing_Colonies)

Parameter	Explanation	Data Type
Input_Thermal_Image_File	<div>Dialog Reference</div> <div>This is the image that will be used to count the number of individual penguins. It should be a raster.</div> <div>Python Reference</div> <div>This is the image that will be used to count the number of individual penguins. It should be a raster.</div>	Raster Layer
Would_you_like_to_select_CORRECT_or_INCORRECT_potential_colonies_	<div>Dialog Reference</div> <div>Would you like to identify colonies that were either correctly or incorrectly identified?</div> <div>CORRECT - Click all the polygons that were CORRECTLY identified</div> <div>INCORRECT - Click all the polygons that were INCORRECTLY identified</div> <div>Python Reference</div> <div>Would you like to identify colonies that were either correctly or incorrectly identified?</div> <div>CORRECT - Click all the polygons that were CORRECTLY identified</div>	String

INCORRECT - Click all the polygons that were INCORRECTLY identified

Create_Colony_Selection_Points

Dialog Reference
Click on the map to create a point within each colony that you are identifying as being either correctly or incorrectly identified. The tool sidebar help image shows an example where the CORRECT colonies are being selected by the user.

Feature Set

Python Reference
Click on the map to create a point within each colony that you are identifying as being either correctly or incorrectly identified. The tool sidebar help image shows an example where the CORRECT colonies are being selected by the user.

Draw_Missing_Colonies

Dialog Reference
Draw a polygon around the colonies that were either not identified by the first tool or only appear in a different image. The tool sidebar help image shows an example of the colony polygons from multispec over a thermal image, in this case thermal image covered an area on the edge that the multispec image did not cover so the user drew in the missing colonies.


Feature Set

Python Reference
Draw a polygon around the colonies that were either not identified by the first tool or only appear in a different image. The tool sidebar help image shows an example of the colony polygons from multispec over a thermal image, in this case thermal image covered an area on the edge that the multispec image did not cover so the user drew in the missing colonies.

Code Samples

There are no code samples for this tool.

Side-panel Help Illustration

 Side-panel Help Illustration

Tags

penguins, UAS, multispectral imagery, thermal imagery

Credits

Clara Bird, Duke Marine Robotics and Remote Sensing Lab, Duke University, 2018.

Use limitations

There are no access and use limitations for this item.

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