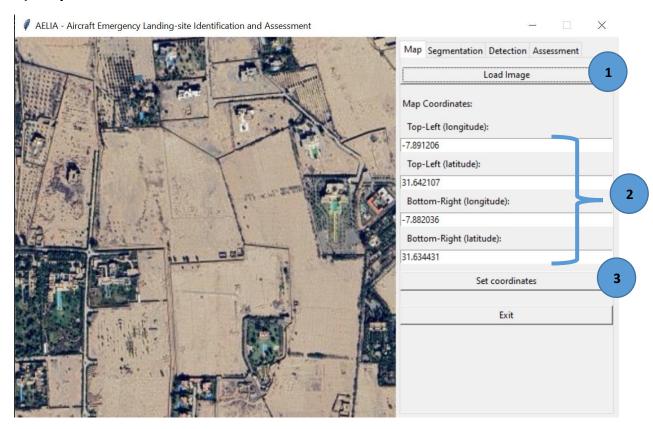
AELIA - Aircraft Emergency Landing-site Identification and Assessment

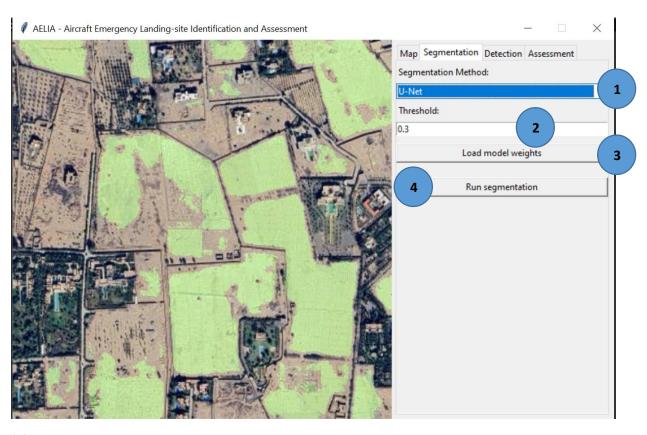
- Tool documentation -

1) Map tab



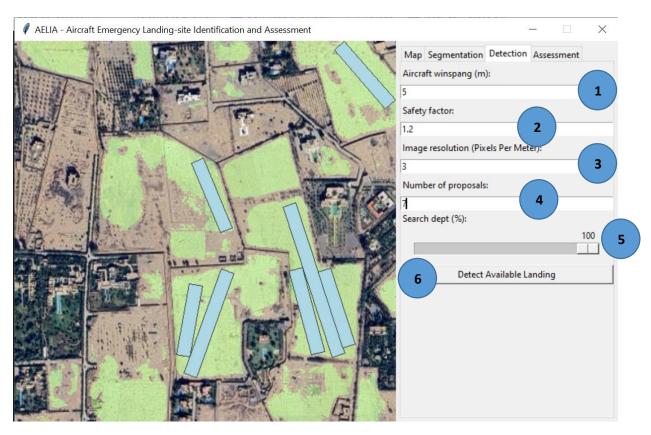
- (1) Button to load the image, this image should preferably have a size of 512 x 512 pixels
- (2) Entries to set the geographic coordinates of the top-left and bottom-right corners of the input image
- (3) Button to validate the geographic coordinates of the reference corners.

2) Segmentation tab



- (1) Selector to choose the segmentation method
- (2) Threshold for the binary segmentation of the input image (between 0 and 1)
- (3) Load the model weight for the chosen segmentation architecture
- (4) Launch the segmentation of the input image using the chosen model

3) Detection tab



- (1) Aircraft wingspan in meters, used in the calculation of the width of the landing site
- (2) Safety factor for the calculation of the width of the landing site
- (3) Image resolution of the input image, in terms of pixels per meters
- (4) Number of the proposals that the detection algorithm would input
- (5) Search depth for the site identification algorithm (100% for a complete search of the search space)
- (6) Launch the site identification algorithm using the configured parameters

4) Assessment tab



- (1) Minimum allowable runway length in meters
- (2) Mesh step size in pixels for verifying the elevation (a recommended variable is between 2 and 5)
- (3) Maximum allowable value of terrain slope in degree
- (4) Maximum allowable average terrain slope in degree
- (5) Button to launch the site assessment procedure
- (6) Grid view to show the assessment results