

TESTING STAGE / FITTING PHASE: 1. VULNERABILITY MAPPING

A key component of the UDef-AT is a vulnerability map which expresses the relative vulnerability of locations to unplanned deforestation. The map is required to have 30 non-zero ordinal classes with 30 being the highest vulnerability and 0 being used to delineate areas outside the jurisdiction and land to be excluded from consideration, such as planned deforestation concessions.

At this time, only the Benchmark vulnerability map is supported. Project proponents considering alternative models may do so with any procedure they wish as long as the resulting map has 30 non-zero ordinal vulnerability classes (30 being the highest) and 0 marking areas outside the jurisdiction and land to be excluded from consideration.

Note that in the case of the Benchmark procedure, the NRT establishes the boundary between vulnerability class 1 and class 2.

Important: Be sure to specify the proper file extension (".tif" or ".rst") for all inputs and outputs. The folder location is not needed since the working folder is specified separately.

INPUTS

WORKING FOLDER

The computer folder where inputs are expected and outputs are written.

MAP OF DISTANCE FROM THE FOREST EDGE IN THE CAL

A map of Euclidian distance from non-forest at the start of the Calibration Period, expressed in meters. **Important:** Be especially careful to avoid map errors which cause small inclusions of non-forest in areas that are actually forest. These can cause substantial problems with the resulting distance map. Where appropriate, apply an area (sieve) filter to remove these errors beforehand (see the general instructions on the Start Page for suggestions).

MAP OF DEFORESTATION IN THE HRP

This is a binary map (contains 0's and 1's) where the 1's indicate deforestation during the full Historical Reference Period (HRP). Note that maps with 1's and NAN are not equivalent. All binary maps must be 1's and 0's with this tool. This map is used at this stage to determine the Negligible Risk Threshold (NRT).

MASK OF THE JURISDICTION

This is also a binary map (contains 0's and 1's) where the 1's indicate areas inside the jurisdiction and suitable for consideration. Areas that are to be excluded from consideration (such as planned forestry concessions) should be marked with 0's. Note that maps with 1's and NAN's are not equivalent. All binary maps must be 1's and 0's with this tool.

NEGLECTIBLE RISK THRESHOLD (NRT) IN THE HRP

This is a floating point number that expresses the distance (in meters) from the forest edge (non-forest) beyond which deforestation is considered to be negligible. Negligible is defined as that distance beyond which 0.5% of deforestation has occurred during the historical period (HRP). A button on the right allows you to calculate this value automatically based on the inputs above.

OUTPUT

NAME OF THE VULNERABILITY MAP FOR THE CAL

This is the output vulnerability map name that should be used. Be sure to specify the desired file extension.