

Disaster Risk Monitoring Using Satellite Imagery

04 - UNOSAT Flood Impact Analysis Case Study

In this notebook, we will learn how UNOSAT, the United Nations Satellite Centre, uses satellite imagery and deep learning-based flood detection models to support emergency response efforts.

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Background

Nepal is a hazard-prone country. Recurring disasters have been monitored throughout the years, including severe floods in 2008, 2014, and 2017. In 2015, following the 7.8-magnitude earthquake, UNOSAT's Emergency Mapping service was activated to provide satellite-derived damage assessment in support of the humanitarian response efforts on the ground. Acting as coordinator for mapping products, UNOSAT integrated the results from various sources in a publicly available web map. Very innovative at the time, this online viewing tool gathered all the analysis results. It also showed images collected from the ground through the newly developed UN ASIGN app. With the crowdsourcing app, individuals are able to send geotagged content, including photos of damages, to validate the satellite imagery-based assessment. Over the years, UNOSAT has worked with different partners in Nepal, providing technical support and implementing different activities to strengthen capacities in using Geospatial Information Technology (GIT) and data for Disaster Risk Management (DRM).



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Nepal June 2021 Flood Event Case Study

In a more recent incident that occurred during June 2021, Nepal was hit by heavy rainfall. Flooding and landslides were reported in many parts of the country and affected thousands of families^[1]. Later in August of the same year, rainfall intensified again for several consecutive days, resulting in rivers overflowing, landslides triggered across the hills, and widespread inundation in the southern plains. In the affected areas, many houses, informal settlements, and other buildings were destroyed, forcing people to seek refuge with relatives or in temporary shelters. Health and sanitation concerns arose as access to running water became limited, increasing the risk of water-borne disease transmission, and limiting the ability to adhere to preventive measures against COVID-19.

[1] <https://reliefweb.int/disaster/fl-2021-000134-npl>

To rapidly respond, UNOSAT Rapid Mapping Service deployed the AI flood detection dashboard (shown below). Flood impact statistics such as sqkm of flood and flood affected population by admin units were automatically generated and displayed on the dashboard. UNOSAT FloodAI was able to process all the available Sentinel-1 overlapping with the area of interest shared by the Information Management Unit of the United Nations Resident Coordination Office in Nepal during the 29 days of activation. We will demonstrate the use of the flood segmentation model on Sentinel-1 images captured around July 2nd, 2021, to analyze the impact of the flood.

Sentinel-1 Data

Sentinel-1 images can be viewed freely from the Alaska Satellite Facility (ASF) Data Search Vertex. Below are the instructions:

1. Open the [ASF Data Search Vertex](#)
2. Input the image name:

`S1A_IW_GRDH_1SDV_20210702T001952_20210702T002017_038591_048DBF_C0E0`

under "**List of Scene Name**". You can also use [this link](#).



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3. Find the image name in the bottom left corner
4. Click "**Zoom to scene**"



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Note: no ASF login required.

Load Data

The Sentinel-1 images have been downloaded and pre-processed using the [ESA SNAP toolbox](#). Below, we will load the two polarizations of Sentinel-1, namely VV and VH, and combine them into an RGB image.

```
In [1]: # DO NOT CHANGE THIS CELL
# import dependencies
import matplotlib.pyplot as plt
import os
import numpy as np
import matplotlib.image as mpimg
import warnings
import gc
import random

warnings.filterwarnings('ignore')
```

First, we need to unzip the `UNOSAT_case_study.zip` file, which includes all of the data.

```
In [2]: # DO NOT CHANGE THIS CELL
# unzip data file
!unzip data/UNOSAT_case_study.zip -d UNOSAT_case_study
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inflating: UNOSAT_case_study/tiles_VV/tile_29_50.png
inflating: UNOSAT_case_study/tiles_VV/tile_16_27.png
inflating: UNOSAT_case_study/tiles_VV/tile_24_46.png
inflating: UNOSAT_case_study/tiles_VV/tile_39_13.png
inflating: UNOSAT_case_study/tiles_VV/tile_16_9.png
inflating: UNOSAT_case_study/tiles_VV/tile_27_34.png
inflating: UNOSAT_case_study/tiles_VV/tile_30_49.png
inflating: UNOSAT_case_study/tiles_VV/tile_35_53.png
inflating: UNOSAT_case_study/tiles_VV/tile_19_15.png
inflating: UNOSAT_case_study/tiles_VV/tile_36_25.png
extracting: UNOSAT_case_study/tiles_VV/tile_18_43.png
extracting: UNOSAT_case_study/tiles_VV/tile_21_58.png
extracting: UNOSAT_case_study/tiles_VV/tile_13_39.png
inflating: UNOSAT_case_study/tiles_VV/tile_25_54.png
extracting: UNOSAT_case_study/tiles_VV/tile_17_35.png
inflating: UNOSAT_case_study/tiles_VV/tile_39_4.png
inflating: UNOSAT_case_study/tiles_VV/tile_35_17.png
inflating: UNOSAT_case_study/tiles_VV/tile_34_45.png
inflating: UNOSAT_case_study/tiles_VV/tile_26_26.png
inflating: UNOSAT_case_study/tiles_VV/tile_9_16.png
inflating: UNOSAT_case_study/tiles_VV/tile_18_7.png
inflating: UNOSAT_case_study/tiles_VV/tile_40_48.png
inflating: UNOSAT_case_study/tiles_VV/tile_37_33.png
inflating: UNOSAT_case_study/tiles_VV/tile_29_14.png
inflating: UNOSAT_case_study/tiles_VV/tile_32_29.png
inflating: UNOSAT_case_study/tiles_VV/tile_14_47.png
extracting: UNOSAT_case_study/tiles_VV/tile_19_51.png
inflating: UNOSAT_case_study/tiles_VV/tile_23_38.png
inflating: UNOSAT_case_study/tiles_VV/tile_31_57.png
extracting: UNOSAT_case_study/tiles_VV/tile_15_19.png
inflating: UNOSAT_case_study/tiles_VV/tile_28_42.png
inflating: UNOSAT_case_study/tiles_VV/tile_6_28.png
inflating: UNOSAT_case_study/tiles_VV/tile_35_8.png
inflating: UNOSAT_case_study/tiles_VV/tile_25_36.png
inflating: UNOSAT_case_study/tiles_VV/tile_33_55.png
inflating: UNOSAT_case_study/tiles_VV/tile_17_17.png
inflating: UNOSAT_case_study/tiles_VV/tile_8_26.png
extracting: UNOSAT_case_study/tiles_VV/tile_16_45.png
inflating: UNOSAT_case_study/tiles_VV/tile_38_5.png
inflating: UNOSAT_case_study/tiles_VV/tile_39_31.png
inflating: UNOSAT_case_study/tiles_VV/tile_34_27.png
inflating: UNOSAT_case_study/tiles_VV/tile_37_15.png
inflating: UNOSAT_case_study/tiles_VV/tile_27_52.png
inflating: UNOSAT_case_study/tiles_VV/tile_14_29.png
inflating: UNOSAT_case_study/tiles_VV/tile_19_33.png
inflating: UNOSAT_case_study/tiles_VV/tile_34_9.png
inflating: UNOSAT_case_study/tiles_VV/tile_22_48.png
inflating: UNOSAT_case_study/tiles_VV/tile_36_43.png
inflating: UNOSAT_case_study/tiles_VV/tile_28_24.png
inflating: UNOSAT_case_study/tiles_VV/tile_31_39.png
inflating: UNOSAT_case_study/tiles_VV/tile_17_8.png
extracting: UNOSAT_case_study/tiles_VV/tile_17_53.png
inflating: UNOSAT_case_study/tiles_VV/tile_35_35.png
inflating: UNOSAT_case_study/tiles_VV/tile_27_16.png


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inflating: UNOSAT_case_study/tiles_VV/tile_18_25.png
inflating: UNOSAT_case_study/tiles_VV/tile_26_44.png
inflating: UNOSAT_case_study/tiles_VV/tile_9_34.png
inflating: UNOSAT_case_study/tiles_VV/tile_36_7.png
inflating: UNOSAT_case_study/tiles_VV/tile_7_18.png
inflating: UNOSAT_case_study/tiles_VV/tile_29_32.png
inflating: UNOSAT_case_study/tiles_VV/tile_32_47.png
inflating: UNOSAT_case_study/tiles_VV/tile_24_28.png
inflating: UNOSAT_case_study/tiles_VV/tile_37_51.png
extracting: UNOSAT_case_study/tiles_VV/tile_23_56.png
extracting: UNOSAT_case_study/tiles_VV/tile_15_37.png
inflating: UNOSAT_case_study/tiles_VV/tile_28_60.png
inflating: UNOSAT_case_study/tiles_VV/tile_19_6.png
inflating: UNOSAT_case_study/tiles_VV/tile_33_19.png
inflating: UNOSAT_case_study/tiles_VV/tile_41_38.png
inflating: UNOSAT_case_study/tiles_VV/tile_38_23.png
```

```
In [3]: # DO NOT CHANGE THIS CELL
# set environment variables
os.environ['NEPAL_VV_PATH']='/dli/task/UNOSAT_case_study/tiles_VV'
os.environ['NEPAL_VH_PATH']='/dli/task/UNOSAT_case_study/tiles_VH'

# list all VV tiles
!ls $NEPAL_VV_PATH
```

[illegible]

tile_11_27.png	tile_19_17.png	tile_25_7.png	tile_32_50.png	tile_39_4.png
tile_11_28.png	tile_19_18.png	tile_25_8.png	tile_32_51.png	tile_39_40.png
tile_11_29.png	tile_19_19.png	tile_25_9.png	tile_32_52.png	tile_39_41.png
tile_11_3.png	tile_19_2.png	tile_26_0.png	tile_32_53.png	tile_39_42.png
tile_11_30.png	tile_19_20.png	tile_26_1.png	tile_32_54.png	tile_39_43.png
tile_11_31.png	tile_19_21.png	tile_26_10.png	tile_32_55.png	tile_39_44.png
tile_11_32.png	tile_19_22.png	tile_26_11.png	tile_32_56.png	tile_39_45.png
tile_11_33.png	tile_19_23.png	tile_26_12.png	tile_32_57.png	tile_39_46.png
tile_11_34.png	tile_19_24.png	tile_26_13.png	tile_32_58.png	tile_39_47.png
tile_11_35.png	tile_19_25.png	tile_26_14.png	tile_32_59.png	tile_39_48.png
tile_11_36.png	tile_19_26.png	tile_26_15.png	tile_32_6.png	tile_39_49.png
tile_11_37.png	tile_19_27.png	tile_26_16.png	tile_32_60.png	tile_39_5.png
tile_11_38.png	tile_19_28.png	tile_26_17.png	tile_32_7.png	tile_39_50.png
tile_11_39.png	tile_19_29.png	tile_26_18.png	tile_32_8.png	tile_39_51.png
tile_11_4.png	tile_19_3.png	tile_26_19.png	tile_32_9.png	tile_39_52.png
tile_11_40.png	tile_19_30.png	tile_26_2.png	tile_33_0.png	tile_39_53.png
tile_11_41.png	tile_19_31.png	tile_26_20.png	tile_33_1.png	tile_39_54.png
tile_11_42.png	tile_19_32.png	tile_26_21.png	tile_33_10.png	tile_39_55.png
tile_11_5.png	tile_19_33.png	tile_26_22.png	tile_33_11.png	tile_39_56.png
tile_11_6.png	tile_19_34.png	tile_26_23.png	tile_33_12.png	tile_39_57.png
tile_11_7.png	tile_19_35.png	tile_26_24.png	tile_33_13.png	tile_39_58.png
tile_11_8.png	tile_19_36.png	tile_26_25.png	tile_33_14.png	tile_39_59.png
tile_11_9.png	tile_19_37.png	tile_26_26.png	tile_33_15.png	tile_39_6.png
tile_12_0.png	tile_19_38.png	tile_26_27.png	tile_33_16.png	tile_39_60.png
tile_12_1.png	tile_19_39.png	tile_26_28.png	tile_33_17.png	tile_39_7.png
tile_12_10.png	tile_19_4.png	tile_26_29.png	tile_33_18.png	tile_39_8.png
tile_12_11.png	tile_19_40.png	tile_26_3.png	tile_33_19.png	tile_39_9.png
tile_12_12.png	tile_19_41.png	tile_26_30.png	tile_33_2.png	tile_3_10.png
tile_12_13.png	tile_19_42.png	tile_26_31.png	tile_33_20.png	tile_3_11.png
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tile_12_16.png	tile_19_45.png	tile_26_34.png	tile_33_23.png	tile_3_14.png
tile_12_17.png	tile_19_46.png	tile_26_35.png	tile_33_24.png	tile_3_15.png
tile_12_18.png	tile_19_47.png	tile_26_36.png	tile_33_25.png	tile_3_6.png
tile_12_19.png	tile_19_48.png	tile_26_37.png	tile_33_26.png	tile_3_7.png
tile_12_2.png	tile_19_49.png	tile_26_38.png	tile_33_27.png	tile_3_8.png
tile_12_20.png	tile_19_5.png	tile_26_39.png	tile_33_28.png	tile_3_9.png
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tile_12_22.png	tile_19_51.png	tile_26_40.png	tile_33_3.png	tile_40_1.png
tile_12_23.png	tile_19_52.png	tile_26_41.png	tile_33_30.png	tile_40_10.png
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tile_12_25.png	tile_19_54.png	tile_26_43.png	tile_33_32.png	tile_40_12.png
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tile_12_31.png	tile_19_60.png	tile_26_5.png	tile_33_39.png	tile_40_19.png
tile_12_32.png	tile_19_7.png	tile_26_50.png	tile_33_4.png	tile_40_2.png
tile_12_33.png	tile_19_8.png	tile_26_51.png	tile_33_40.png	tile_40_20.png
tile_12_34.png	tile_19_9.png	tile_26_52.png	tile_33_41.png	tile_40_21.png
tile_12_35.png	tile_20_0.png	tile_26_53.png	tile_33_42.png	tile_40_22.png
tile_12_36.png	tile_20_1.png	tile_26_54.png	tile_33_43.png	tile_40_23.png
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tile_12_4.png	tile_20_13.png	tile_26_58.png	tile_33_47.png	tile_40_27.png
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tile_12_41.png	tile_20_15.png	tile_26_6.png	tile_33_49.png	tile_40_29.png

[illegible]

[illegible]

tile_15_20.png	tile_22_14.png	tile_28_59.png	tile_35_48.png	tile_4_7.png
tile_15_21.png	tile_22_15.png	tile_28_6.png	tile_35_49.png	tile_4_8.png
tile_15_22.png	tile_22_16.png	tile_28_60.png	tile_35_5.png	tile_4_9.png
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tile_16_45.png	tile_23_34.png	tile_30_23.png	tile_37_12.png	tile_7_25.png
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tile_16_51.png	tile_23_40.png	tile_30_3.png	tile_37_19.png	tile_7_31.png
tile_16_52.png	tile_23_41.png	tile_30_30.png	tile_37_2.png	tile_7_32.png
tile_16_53.png	tile_23_42.png	tile_30_31.png	tile_37_20.png	tile_7_33.png
tile_16_54.png	tile_23_43.png	tile_30_32.png	tile_37_21.png	tile_7_34.png
tile_16_55.png	tile_23_44.png	tile_30_33.png	tile_37_22.png	tile_7_4.png
tile_16_56.png	tile_23_45.png	tile_30_34.png	tile_37_23.png	tile_7_5.png
tile_16_57.png	tile_23_46.png	tile_30_35.png	tile_37_24.png	tile_7_6.png
tile_16_58.png	tile_23_47.png	tile_30_36.png	tile_37_25.png	tile_7_7.png
tile_16_59.png	tile_23_48.png	tile_30_37.png	tile_37_26.png	tile_7_8.png
tile_16_6.png	tile_23_49.png	tile_30_38.png	tile_37_27.png	tile_7_9.png
tile_16_60.png	tile_23_5.png	tile_30_39.png	tile_37_28.png	tile_8_0.png
tile_16_7.png	tile_23_50.png	tile_30_4.png	tile_37_29.png	tile_8_1.png
tile_16_8.png	tile_23_51.png	tile_30_40.png	tile_37_3.png	tile_8_10.png
tile_16_9.png	tile_23_52.png	tile_30_41.png	tile_37_30.png	tile_8_11.png
tile_17_0.png	tile_23_53.png	tile_30_42.png	tile_37_31.png	tile_8_12.png
tile_17_1.png	tile_23_54.png	tile_30_43.png	tile_37_32.png	tile_8_13.png
tile_17_10.png	tile_23_55.png	tile_30_44.png	tile_37_33.png	tile_8_14.png
tile_17_11.png	tile_23_56.png	tile_30_45.png	tile_37_34.png	tile_8_15.png
tile_17_12.png	tile_23_57.png	tile_30_46.png	tile_37_35.png	tile_8_16.png
tile_17_13.png	tile_23_58.png	tile_30_47.png	tile_37_36.png	tile_8_17.png
tile_17_14.png	tile_23_59.png	tile_30_48.png	tile_37_37.png	tile_8_18.png
tile_17_15.png	tile_23_6.png	tile_30_49.png	tile_37_38.png	tile_8_19.png
tile_17_16.png	tile_23_60.png	tile_30_5.png	tile_37_39.png	tile_8_2.png
tile_17_17.png	tile_23_7.png	tile_30_50.png	tile_37_4.png	tile_8_20.png
tile_17_18.png	tile_23_8.png	tile_30_51.png	tile_37_40.png	tile_8_21.png
tile_17_19.png	tile_23_9.png	tile_30_52.png	tile_37_41.png	tile_8_22.png
tile_17_2.png	tile_24_0.png	tile_30_53.png	tile_37_42.png	tile_8_23.png
tile_17_20.png	tile_24_1.png	tile_30_54.png	tile_37_43.png	tile_8_24.png
tile_17_21.png	tile_24_10.png	tile_30_55.png	tile_37_44.png	tile_8_25.png
tile_17_22.png	tile_24_11.png	tile_30_56.png	tile_37_45.png	tile_8_26.png

tile_17_23.png	tile_24_12.png	tile_30_57.png	tile_37_46.png	tile_8_27.png
tile_17_24.png	tile_24_13.png	tile_30_58.png	tile_37_47.png	tile_8_28.png
tile_17_25.png	tile_24_14.png	tile_30_59.png	tile_37_48.png	tile_8_29.png
tile_17_26.png	tile_24_15.png	tile_30_6.png	tile_37_49.png	tile_8_3.png
tile_17_27.png	tile_24_16.png	tile_30_60.png	tile_37_5.png	tile_8_30.png
tile_17_28.png	tile_24_17.png	tile_30_7.png	tile_37_50.png	tile_8_31.png
tile_17_29.png	tile_24_18.png	tile_30_8.png	tile_37_51.png	tile_8_32.png
tile_17_3.png	tile_24_19.png	tile_30_9.png	tile_37_52.png	tile_8_33.png
tile_17_30.png	tile_24_2.png	tile_31_0.png	tile_37_53.png	tile_8_34.png
tile_17_31.png	tile_24_20.png	tile_31_1.png	tile_37_54.png	tile_8_35.png
tile_17_32.png	tile_24_21.png	tile_31_10.png	tile_37_55.png	tile_8_4.png
tile_17_33.png	tile_24_22.png	tile_31_11.png	tile_37_56.png	tile_8_5.png
tile_17_34.png	tile_24_23.png	tile_31_12.png	tile_37_57.png	tile_8_6.png
tile_17_35.png	tile_24_24.png	tile_31_13.png	tile_37_58.png	tile_8_7.png
tile_17_36.png	tile_24_25.png	tile_31_14.png	tile_37_59.png	tile_8_8.png
tile_17_37.png	tile_24_26.png	tile_31_15.png	tile_37_6.png	tile_8_9.png
tile_17_38.png	tile_24_27.png	tile_31_16.png	tile_37_60.png	tile_9_0.png
tile_17_39.png	tile_24_28.png	tile_31_17.png	tile_37_7.png	tile_9_1.png
tile_17_4.png	tile_24_29.png	tile_31_18.png	tile_37_8.png	tile_9_10.png
tile_17_40.png	tile_24_3.png	tile_31_19.png	tile_37_9.png	tile_9_11.png
tile_17_41.png	tile_24_30.png	tile_31_2.png	tile_38_0.png	tile_9_12.png
tile_17_42.png	tile_24_31.png	tile_31_20.png	tile_38_1.png	tile_9_13.png
tile_17_43.png	tile_24_32.png	tile_31_21.png	tile_38_10.png	tile_9_14.png
tile_17_44.png	tile_24_33.png	tile_31_22.png	tile_38_11.png	tile_9_15.png
tile_17_45.png	tile_24_34.png	tile_31_23.png	tile_38_12.png	tile_9_16.png
tile_17_46.png	tile_24_35.png	tile_31_24.png	tile_38_13.png	tile_9_17.png
tile_17_47.png	tile_24_36.png	tile_31_25.png	tile_38_14.png	tile_9_18.png
tile_17_48.png	tile_24_37.png	tile_31_26.png	tile_38_15.png	tile_9_19.png
tile_17_49.png	tile_24_38.png	tile_31_27.png	tile_38_16.png	tile_9_2.png
tile_17_5.png	tile_24_39.png	tile_31_28.png	tile_38_17.png	tile_9_20.png
tile_17_50.png	tile_24_4.png	tile_31_29.png	tile_38_18.png	tile_9_21.png
tile_17_51.png	tile_24_40.png	tile_31_3.png	tile_38_19.png	tile_9_22.png
tile_17_52.png	tile_24_41.png	tile_31_30.png	tile_38_2.png	tile_9_23.png
tile_17_53.png	tile_24_42.png	tile_31_31.png	tile_38_20.png	tile_9_24.png
tile_17_54.png	tile_24_43.png	tile_31_32.png	tile_38_21.png	tile_9_25.png
tile_17_55.png	tile_24_44.png	tile_31_33.png	tile_38_22.png	tile_9_26.png
tile_17_56.png	tile_24_45.png	tile_31_34.png	tile_38_23.png	tile_9_27.png
tile_17_57.png	tile_24_46.png	tile_31_35.png	tile_38_24.png	tile_9_28.png
tile_17_58.png	tile_24_47.png	tile_31_36.png	tile_38_25.png	tile_9_29.png
tile_17_59.png	tile_24_48.png	tile_31_37.png	tile_38_26.png	tile_9_3.png
tile_17_6.png	tile_24_49.png	tile_31_38.png	tile_38_27.png	tile_9_30.png
tile_17_60.png	tile_24_5.png	tile_31_39.png	tile_38_28.png	tile_9_31.png
tile_17_7.png	tile_24_50.png	tile_31_4.png	tile_38_29.png	tile_9_32.png
tile_17_8.png	tile_24_51.png	tile_31_40.png	tile_38_3.png	tile_9_33.png
tile_17_9.png	tile_24_52.png	tile_31_41.png	tile_38_30.png	tile_9_34.png
tile_18_0.png	tile_24_53.png	tile_31_42.png	tile_38_31.png	tile_9_35.png
tile_18_1.png	tile_24_54.png	tile_31_43.png	tile_38_32.png	tile_9_36.png
tile_18_10.png	tile_24_55.png	tile_31_44.png	tile_38_33.png	tile_9_4.png
tile_18_11.png	tile_24_56.png	tile_31_45.png	tile_38_34.png	tile_9_5.png
tile_18_12.png	tile_24_57.png	tile_31_46.png	tile_38_35.png	tile_9_6.png
tile_18_13.png	tile_24_58.png	tile_31_47.png	tile_38_36.png	tile_9_7.png
tile_18_14.png	tile_24_59.png	tile_31_48.png	tile_38_37.png	tile_9_8.png
tile_18_15.png	tile_24_6.png	tile_31_49.png	tile_38_38.png	tile_9_9.png
tile_18_16.png	tile_24_60.png	tile_31_5.png	tile_38_39.png	
tile_18_17.png	tile_24_7.png	tile_31_50.png	tile_38_4.png	

Visualize Data

The Sentinel-1 mission provides data from a dual-polarization C-band Synthetic Aperture Radar (SAR) instrument. The data we've collected are from the 2 primary bands:

- VV (vertical transmit/vertical receive)
 - Better at detecting vertical structures and rough surfaces
 - Useful for urban area mapping, infrastructure monitoring, and ocean applications
 - More sensitive to surface roughness and soil moisture
- VH (vertical transmit/horizontal receive)
 - More sensitive to volume scattering, making it valuable for vegetation analysis
 - Particularly useful for forest monitoring, biomass estimation, and crop classification
 - Better at distinguishing different types of vegetation cover

The Sentinel-1 images are divided into tiles of size 512 x 512 so that they are easier to manipulate (as opposed to one large file). While Sentinel-1 data is already preprocessed to some extent, additional preprocessing steps are typically needed to prepare the data for analysis. These preprocessing steps help to improve the quality and usability of Sentinel-1 data for various applications, ensuring that the information derived from both VV and VH bands is as accurate and meaningful as possible.

```
In [4]: # DO NOT CHANGE THIS CELL
# Load the images
vv_img=mpimg.imread('full_vv_image.png')
vh_img=mpimg.imread('full_vh_image.png')

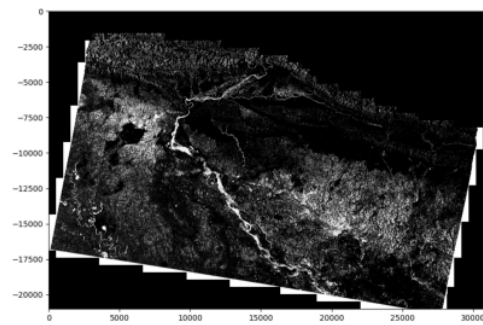
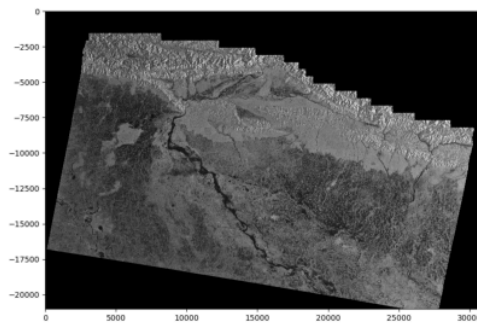
# create a figure with two subplots
# fig=plt.figure(figsize=(5, 10))
fig, ax=plt.subplots(1, 2, figsize=(10, 5))

# display the images
ax[0].imshow(vv_img)
ax[0].set_title('VV')
ax[0].axis('off')
ax[1].imshow(vh_img)
ax[1].set_title('VH')
ax[1].axis('off')

plt.tight_layout()
```

W

VH



```
# DO NOT CHANGE THIS CELL # plot composite for all tiles band='VH' # or 'VV' fig=plt.figure(figsize=(10, 10))
ax=plt.subplot(111) max_x, max_y=0, 0 for each_tile in os.listdir(os.environ[f'NEPAL_{band}_PATH']): if (each_tile.split('.')
[-1]=='png'): tile_name=each_tile.replace('.png', '') y, x=tile_name.split('_') y=int(y) x=int(x) if y>max_y: max_y=y if
x>max_x: max_x=x image=mpimg.imread(os.path.join(os.environ[f'NEPAL_{band}_PATH'], each_tile)) plt.imshow(image,
extent=(512*x, 512*(x+1), -512*(y+1), -512*y), cmap='gray') ax.set_xlim([0, max_x*512]) ax.set_ylim([-max_y*512, 0])
ax.set_facecolor("black") plt.show()
```

Click ... to show the **script** to generate these full images.

Processing large image files is memory intensive. To ensure we have sufficient memory for the rest of the notebook, we free up some memory with `del()` and `gc.collect()`.

In [5]: *# DO NOT CHANGE THIS CELL*

```
del(fig)
del(ax)

gc.collect()
!free
```

	total	used	free	shared	buff/cache	available
Mem:	28726056	3019668	422528	309512	25283860	24946536
Swap:	0	0	0			

In [6]: *# DO NOT CHANGE THIS CELL*

```
# define function to create RGB composite from VV and VH bands
def RGB_composite(tile_name):
    vv=mpimg.imread(os.path.join(os.getenv('NEPAL_VV_PATH'), tile_name))
    red=np.clip(vv, 0, 1)

    # remove noise from speckle, scattering, and bounce
    red[red>0.7]=0

    vh=mpimg.imread(os.path.join(os.getenv('NEPAL_VH_PATH'), tile_name))
    green=np.clip(vh, 0, 1)

    blue=np.clip(vv/vh, 0, 1)
    stacked=np.dstack((red, green, blue))
    return stacked
```

```
In [7]: # DO NOT CHANGE THIS CELL
# display the RGB composite of one tile
tile_name=random.choice(os.listdir(os.getenv('NEPAL_VV_PATH')))
print(f'Displaying {tile_name}.')

# create RGB composite
RGB_tile=RGB_composite(tile_name)
cmaps=['Reds', 'Greens', 'Blues']

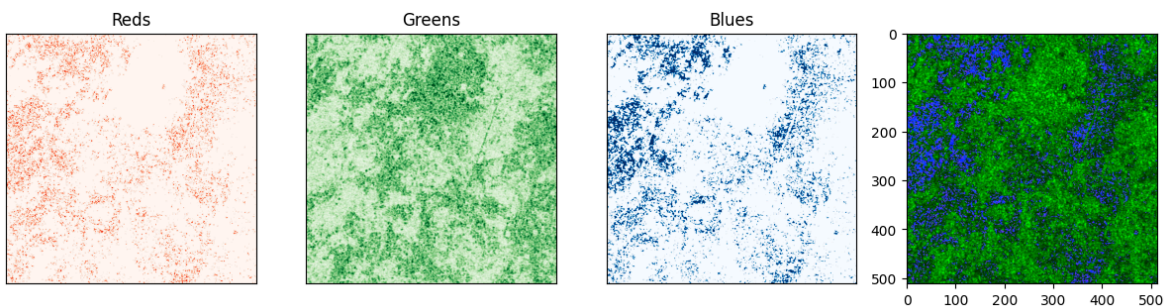
# plot RGB bands
fig, ax=plt.subplots(1, 4, figsize=(15, 5))

for idx in range(3):
    ax[idx].imshow(RGB_tile[:, :, idx], cmap=cmaps[idx])
    ax[idx].get_yaxis().set_visible(False)
    ax[idx].get_xaxis().set_visible(False)
    ax[idx].set_title(cmaps[idx])


ax[3].imshow(RGB_tile)

print(f'The shape is {RGB_tile.shape}.')
plt.show()
```

Displaying tile_27_54.png.
The shape is (512, 512, 3).



You can compare the composite with one that is generated on ASF.

 No description has been provided for this image

Segmentation Model Inference

For inference, we will send requests to the Triton Inference Server to ensure the best performance. We will use the previously trained `sample_resnet18.engine` TensorRT engine, which has been optimized for inference performance.

```
In [8]: # DO NOT CHANGE THIS CELL
!curl -v triton:8000/v2/health/ready
```

```

* Trying 172.18.0.3:8000...
* Connected to triton (172.18.0.3) port 8000 (#0)
> GET /v2/health/ready HTTP/1.1
> Host: triton:8000
> User-Agent: curl/7.81.0
> Accept: */*
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Content-Length: 0
< Content-Type: text/plain
<
* Connection #0 to host triton left intact

```

```

In [9]: # DO NOT CHANGE THIS CELL
import tritonclient.http as tritonhttpclient

# set parameters
VERBOSE=False
input_name='input_1:0'
input_shape=(1, 3, 512, 512)
input_dtype='FP32'
output_name='argmax_1'
model_name='flood_segmentation_model'
url='triton:8000'
model_version='1'

```

```

In [10]: # DO NOT CHANGE THIS CELL
# configure Triton client
triton_client=tritonhttpclient.InferenceServerClient(url=url, verbose=VERBOSE)
model_metadata=triton_client.get_model_metadata(model_name=model_name, model_ver
model_config=triton_client.get_model_config(model_name=model_name, model_version

```

We will performance inference on the image tiles. Since we are only interested in a specific area, we limit this to a subset of the total tiles.

```

In [11]: # DO NOT CHANGE THIS CELL
# define function to pre-process images for Triton consumption
def get_image_ary(tile_name):
    image=RGB_composite(tile_name)
    image_ary=((image*255)-127.5)*0.00784313725490196

    BGR=np.empty_like(image_ary)
    BGR[:, :, 0]=image_ary[:, :, 2]
    BGR[:, :, 1]=image_ary[:, :, 1]
    BGR[:, :, 2]=image_ary[:, :, 0]
    image_ary=BGR

    image_ary=np.transpose(image_ary, [2, 0, 1])
    image_ary=np.expand_dims(image_ary, axis=0)
    return image_ary

```

```

In [12]: # DO NOT CHANGE THIS CELL
# configure input and output
inference_input=tritonhttpclient.InferInput(input_name, input_shape, input_dtype)
output=tritonhttpclient.InferRequestedOutput(output_name)

# create one large array by concatenating inference results on individual tiles

```

```

prediction_y=[]
for each_y in range(0, 20):
    prediction_x=[]
    for each_x in range(20):
        each_file=f'tile_{each_y}_{each_x}.png'
        if each_file in os.listdir(os.getenv('NEPAL_VV_PATH')):
            # preprocess input tiles
            image_ary=get_image_ary(each_file)
            # generate inference with Triton
            inference_input.set_data_from_numpy(image_ary)
            response=triton_client.infer(model_name,
                                         model_version=model_version,
                                         inputs=[inference_input],
                                         outputs=[output])

            logits=response.as_numpy(output_name)
            logits=np.asarray(logits, dtype=np.int32)
            mask=logits[0]
            prediction_x.append(mask)
        else:
            prediction_x.append(np.zeros((512, 512, 1)))
    prediction_y.append(np.concatenate(prediction_x, axis=1))
prediction=np.concatenate(prediction_y, axis=0)

print(f'The result predictions has a shape of {prediction.shape}.')

```

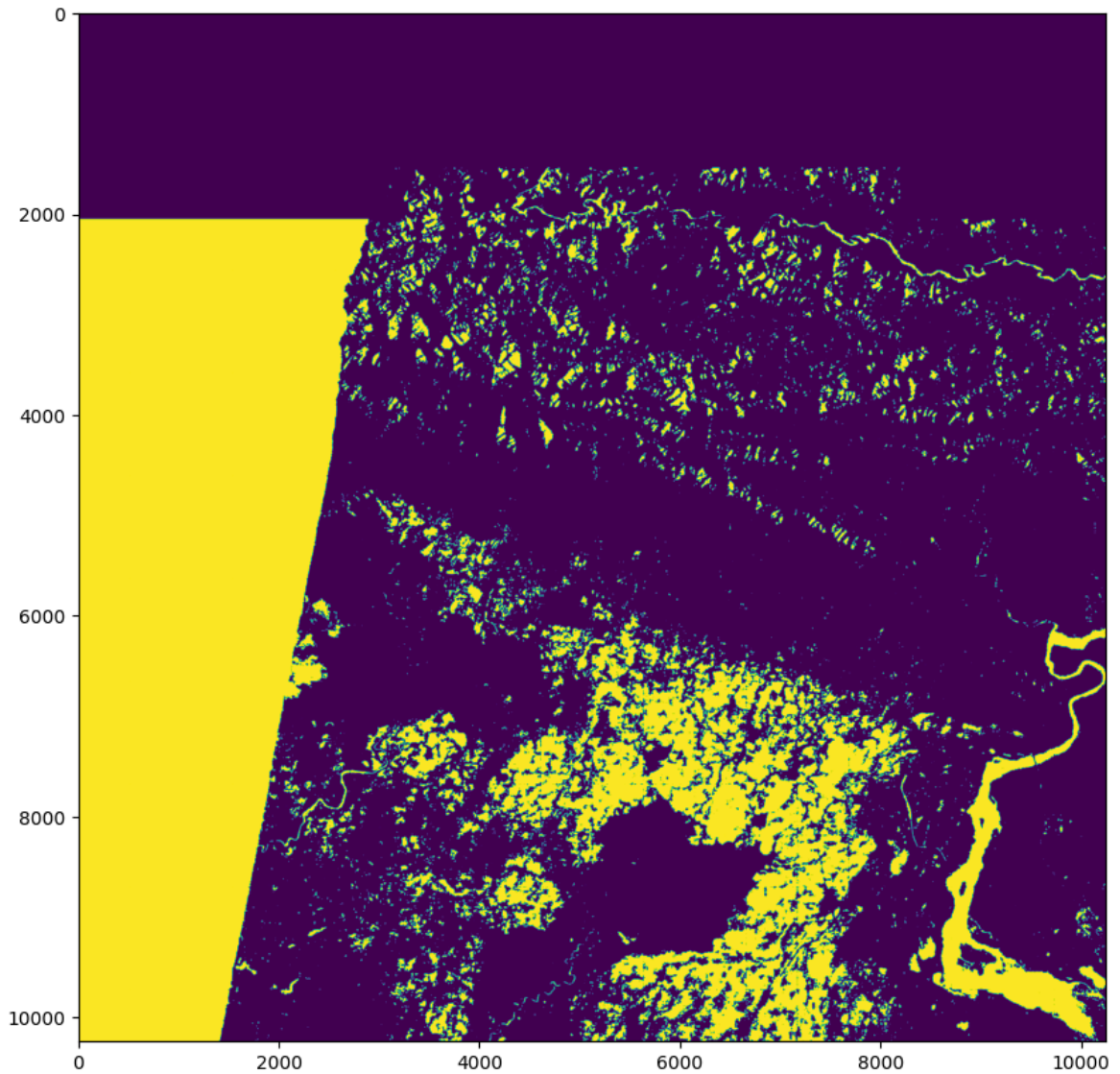
The result predictions has a shape of (10240, 10240, 1).

```

In [13]: # DO NOT CHANGE THIS CELL
fig=plt.figure(figsize=(10, 10))
plt.imshow(prediction)

```

Out[13]: <matplotlib.image.AxesImage at 0x7f4276a3be50>



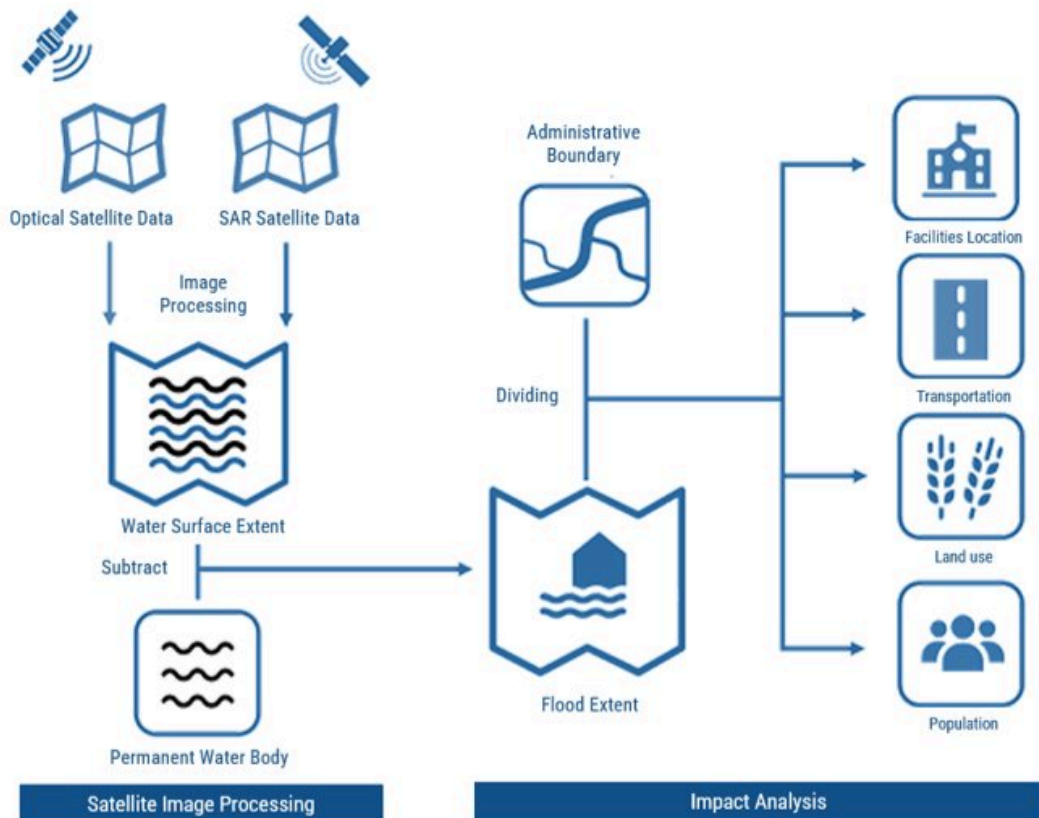
Impact Analysis

When performing an impact analysis, we are concerned with:

- What is the extent of the flood?
- How many people are likely affected or located within flood affected areas?
- What is the estimated number of critical facilities located within the flood affected areas?

We will use baseline data, which refers to information that provides humanitarian actors with a pre-disaster picture of the potentially affected populations, critical infrastructure, basic geography, and other issues that will become crucial when disaster strikes. Baseline data are obtained from several different sources, each responsible for ensuring accuracy and integrity. Some examples of commonly used baseline data are:

- [Humanitarian Data Exchange](#)
- [Common Operational Datasets](#)
- [WorldPop](#)
- [OpenStreetMap](#)
- [Esri 2020 Land Cover Map](#)



To estimate the population potentially affected by the flood, we will subtract the permanent water from the AI-based water extent. This will be the flood extent that didn't have water pre-disaster. We then intersect the flood extent with the open-source spatial demographic dataset [WorldPop](#). It is important to notice that there is a discrepancy between Sentinel-1 10-meter resolution and the 100-meter resolution of WorldPop. Resampling the population layer is required to align it with the flood extent before computing any impact analysis. The area of interest for the impact analysis includes the Nawalparasi West, Rupandehi and Kapilbastu districts, and Lumbini province. We curated the permanent water layer and the WorldPop dataset to easily compute the impact analysis.

No description has been provided for this image

```

In [14]: # DO NOT CHANGE THIS CELL
# load baseline data
analysis_extent=mpimg.imread('UNOSAT_case_study/baseline_maps/analysis_extent.png')
permanent_water=mpimg.imread('UNOSAT_case_study/baseline_maps/permanent_water.png')
world_pop=mpimg.imread('UNOSAT_case_study/baseline_maps/world_pop.png')

all_maps=[{'name': 'Area of Interest', 'map': mpimg.imread('UNOSAT_case_study/baseline_maps/area_of_interest.png'),
{'name': 'Permanent Water Region', 'map': mpimg.imread('UNOSAT_case_study/baseline_maps/permanent_water.png'),
{'name': 'Population', 'map': mpimg.imread('UNOSAT_case_study/baseline_maps/world_pop.png')}

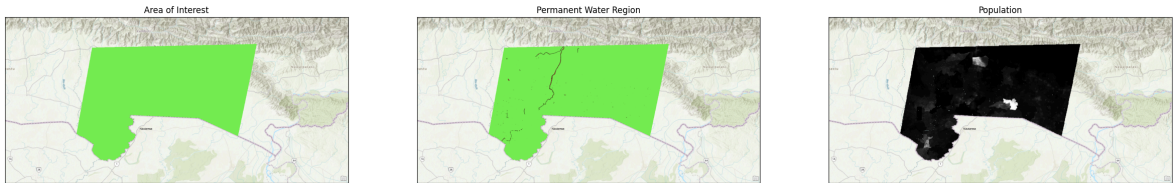
# plot baseline data
fig, ax=plt.subplots(1, 3, figsize=(30, 10))

for idx, map in enumerate(all_maps):
    ax[idx].imshow(map['map'])
    ax[idx].get_yaxis().set_visible(False)

```



```
ax[idx].get_xaxis().set_visible(False)
ax[idx].set_title(map['name'])
```



```
In [15]: # DO NOT CHANGE THIS CELL
# make a copy of the water extent
flood_extent=prediction[:, :, 0].copy()

# focus on the region inside the analysis extent only
flood_extent[analysis_extent==0]=0

# subtract permanent water
flood_extent[permanent_water!=0]=0

# calculate the potentially affected population reempling the WorldPop resoluti
affected_population=np.sum(world_pop*255*np.float32(flood_extent)/98.50665986164

print(f"Population potentially affected: {affected_population}.")
```

Population potentially affected: 199719.171875.

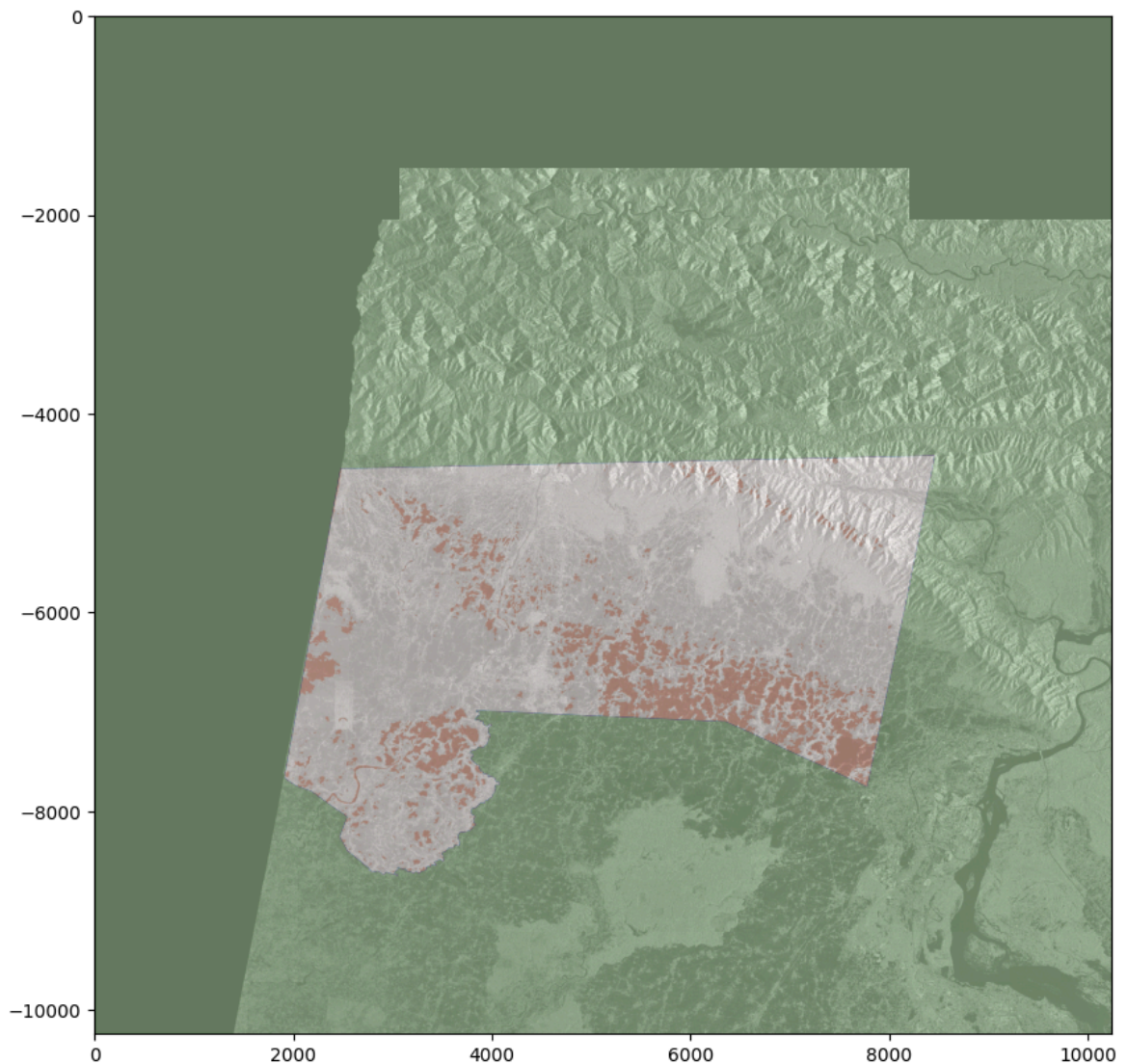
```
In [16]: # DO NOT CHANGE THIS CELL
# plot layers of the impact analysis
fig=plt.figure(figsize=(10, 10))
ax=plt.subplot(111)

# plot map (by tiles)
for each_y in range(20):
    for each_x in range(20):
        each_file=f'tile_{each_y}_{each_x}.png'
        if each_file in os.listdir(os.environ['NEPAL_VV_PATH']):
            image=RGB_composite(each_file)
            plt.imshow(image[:, :, 1], extent=(512*each_x, 512*(each_x+1), -512*


# plot predicted flood extent
plt.imshow(flood_extent, extent=(0, 10240, -10240, 0), cmap='Reds', alpha=0.5, v

# plot area of interest
plt.imshow(analysis_extent, extent=(0, 10240, -10240, 0), cmap='ocean', alpha=0.

ax.set_xlim([0, 10240])
ax.set_ylim([-10240, 0])
ax.set_facecolor("black")
plt.show()
```

The United Nations Satellite Centre (UNOSAT) map, displayed below, indicated a potential exposed population of 195'000 on June 2nd. Is it in line with the number you just obtained?

 No description has been provided for this image

Near-Real-Time FloodAI Dashboard

To run flood detection at scale and respond to a growing need for daily updates, it is crucial to develop end-to-end pipelines where satellite images are automatically downloaded and processed by machine learning algorithms to output flood extent. Tools that provide access and disseminate this information could play a key role, such as the [operational dashboards](#) that UNOSAT developed for the UN Regional Coordination Office in Nepal.

To ensure timely and accurate updates, the AI-generated flood extents are reviewed and corrected as necessary by the UNOSAT Rapid Mapping team, before feeding the dashboard for end user consumption. Another tailor-made feature was the integration of [UN ASIGN](#), an application that was shared with field officers across the country to upload

geotagged information and photos in real time. The UN ASIGN application provided a way to collect and centralize ground data, which was extremely useful during the national lockdown. The visualization of all the data on the same platform provides a comprehensive overview of the area of interest despite movement restrictions.



No description has been provided for this image

Summary

Thank you for completing the NVIDIA DLI Disaster Risk Monitoring Using Satellite Imagery lab. In this lab, you learned how to build and deploy a flood detection segmentation model using data collected from Sentinel-1 satellites. You also learned how flood detection is used to support disaster response. While this lab focuses primarily on detecting flood events, it should be noted that similar applications can be created for other natural disasters.

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