FIGURES AND FIGURES CAPTION

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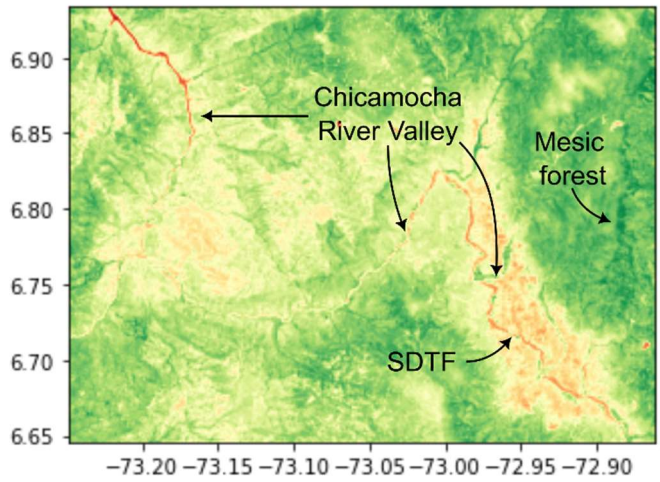
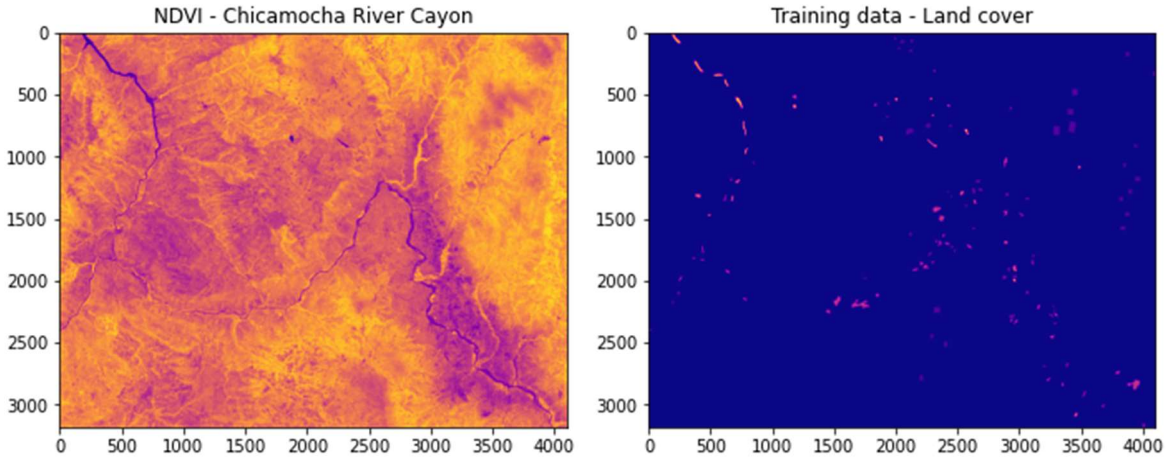
Fig. 2 NDVI raster of the AOI. The two main contrasting ecosystems, SDTF and Mesic Forest are shown. Note how the SDTF is dominantly located at the bottom of the valley.



Created in Python and later modified using Inkscape (open-source software for vector editing).

Fig. 3 NDVI raster (left) and training data (right) after being converted into arrays and imported into Python.



Created in Python with the aim of Matplotlib as follows (two arrays are needed to make this figure):

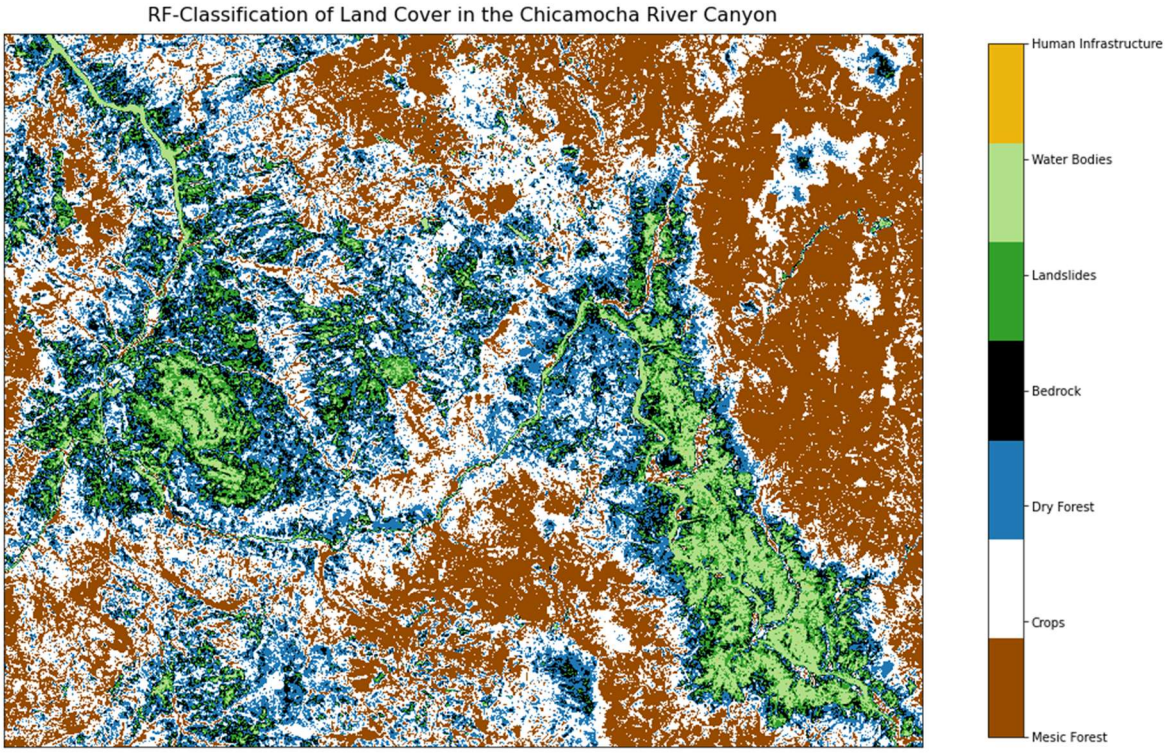
```
plt.rcParams["figure.figsize"] = [10.00, 10.00]
plt.rcParams["figure.autolayout"] = True

plt.subplot(121)
```

```
plt.imshow(ndvi_f[:, :, 0], cmap=plt.cm.plasma)
plt.title('NDVI - Chicamocha River Cayon')

plt.subplot(122)
plt.imshow(train_f, cmap=plt.cm.plasma)
plt.title('Training data - Land cover')
plt.show()
```

Fig. 4 Classified raster of the AOI with the seven classes of land cover defined in this project.



Created in Python with the aim of Matplotlib as follows (the array resulting from the prediction is needed to make this figure):

```
fig, ax = plt.subplots(figsize=(15, 15), subplot_kw={"xticks": [],
"yticks": []})
cmap = plt.matplotlib.colors.ListedColormap(classes_colors, N=n_classes)
#colormap
cax = ax.imshow(class_prediction,cmap=cmap)
plt.title("RF-Classification of Land Cover in the Chicamocha River
Canyon", fontsize=16, pad=10)
cbar = fig.colorbar(cax, ax=ax, fraction=0.034, pad=0.065)
cbar.ax.set_yticklabels(classes_labels)
plt.savefig('/content/drive/MyDrive/Data/ClassProject/Chicamocha_Classifi
ed.png',dpi=300)
plt.show()
```