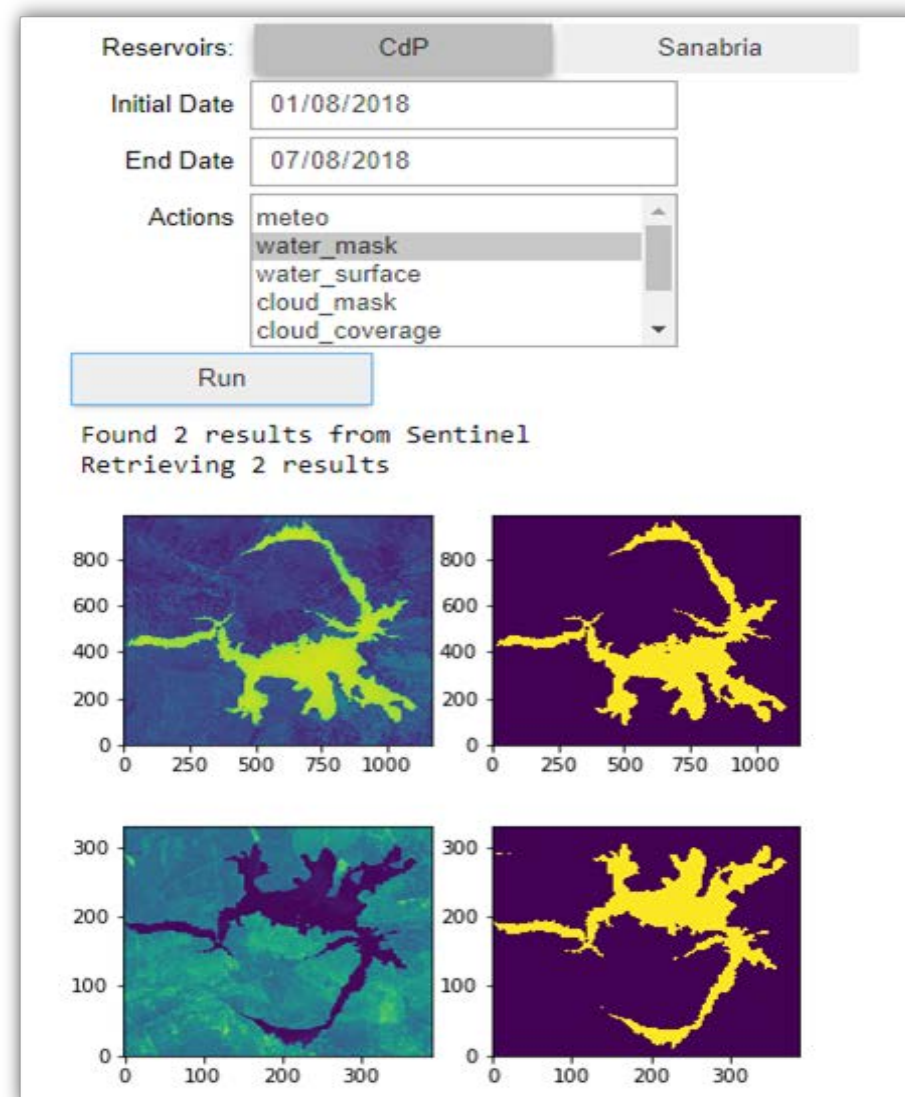# Sat-WaQ Orchestrated satellite data for water resources
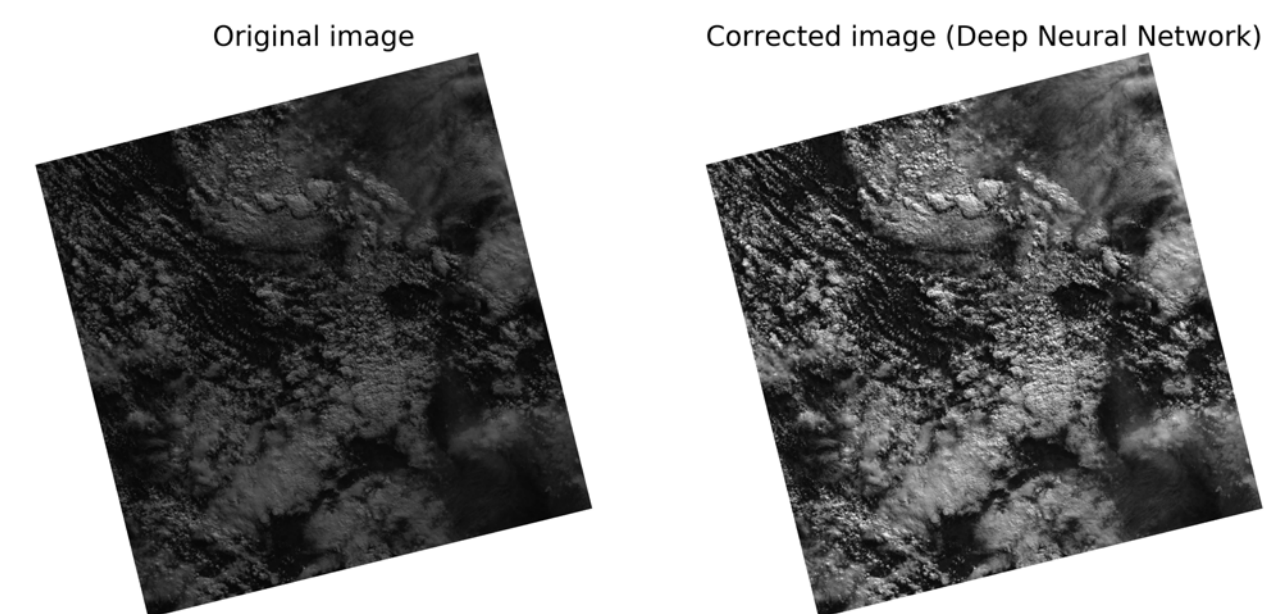
1. Downloads

With a jupyter notebook as a simple user interface, you can select and download data from Sentinel 2 and Landsat 8 just by choosing the place and the date.
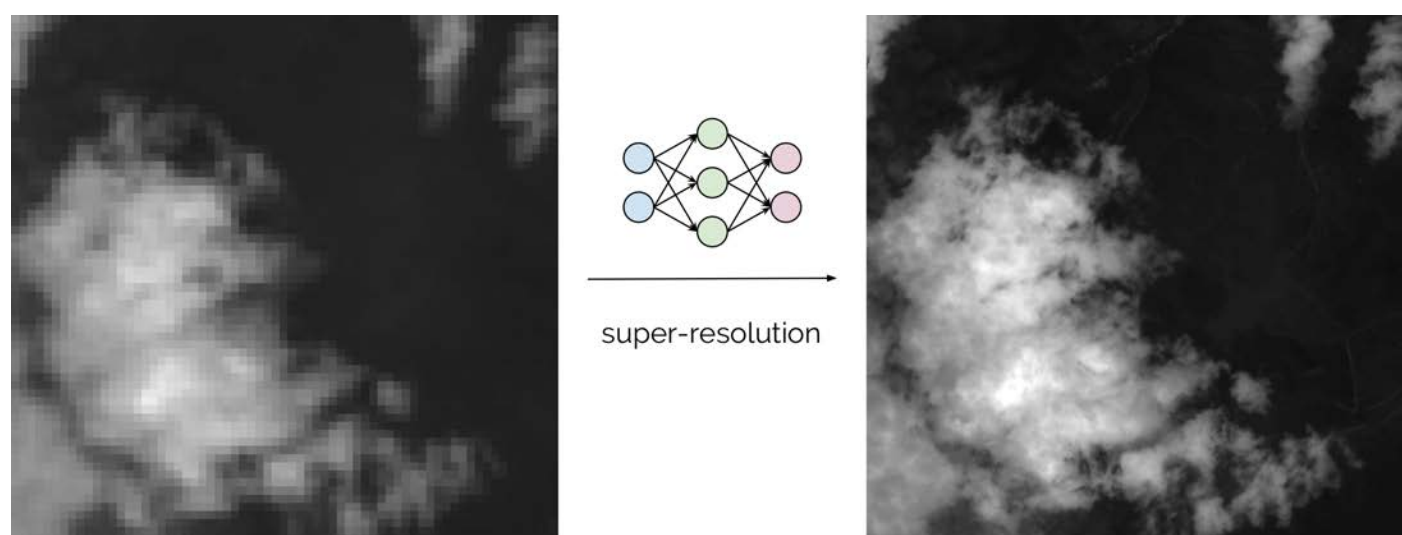

2. Atmospheric Corrections

Our approach to apply atmospheric correction consists of training the convolutional neural network to learn the correlation between the original image and the corrected image.

Original image   Corrected image (Deep Neural Network)

3. Super-resolution

Take the low resolution bands and to super-resolve them to high resolution. Our method is based on deep neural networks.

super-resolution

4. Water Quality Parameters

Remote sensing to monitor the water quality of the water reservoirs:

- Mapping water bodies
- Temperature
- Turbidity
- Chlorophyll

Turbidity   (NTU)

1   2   5   10   22   46   100

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