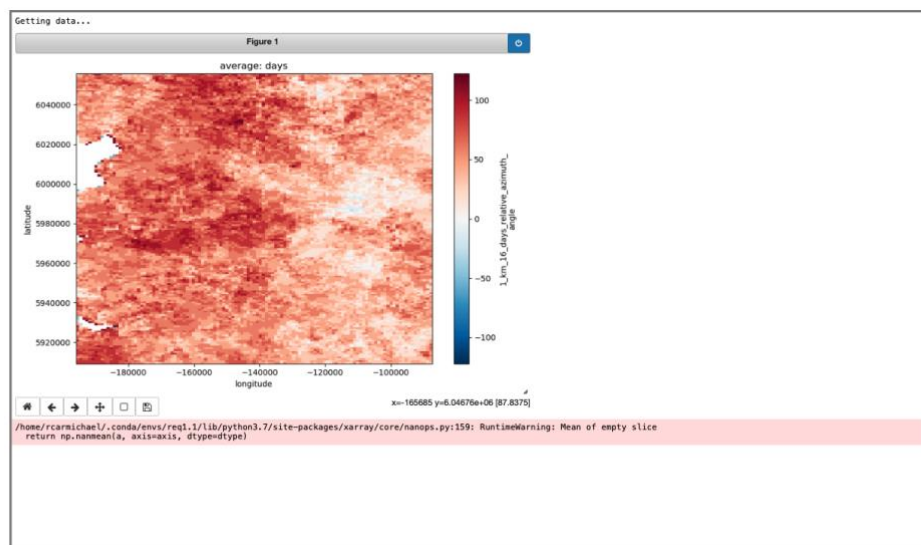
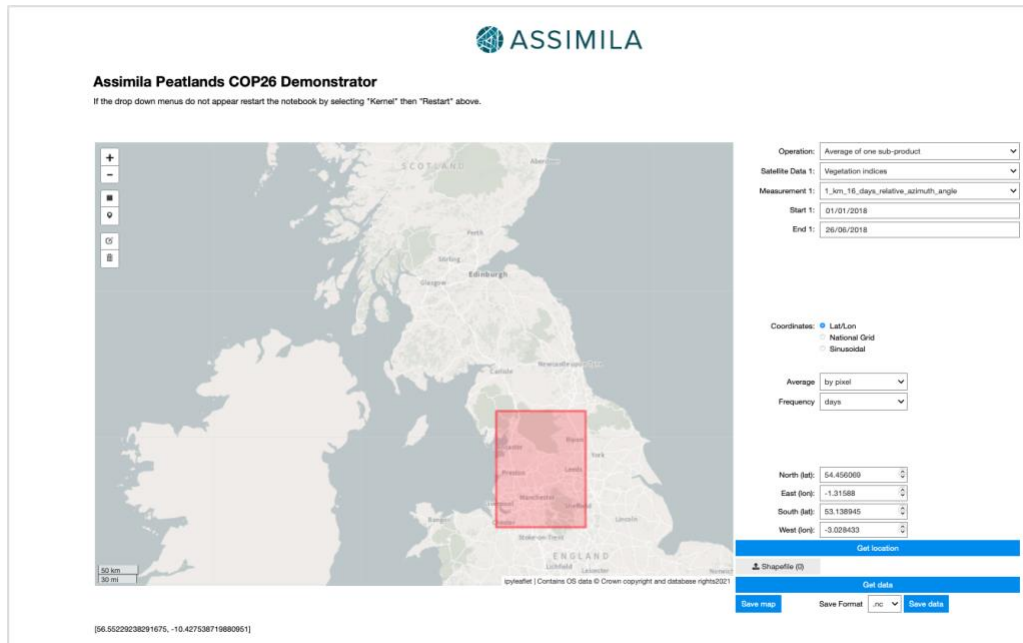


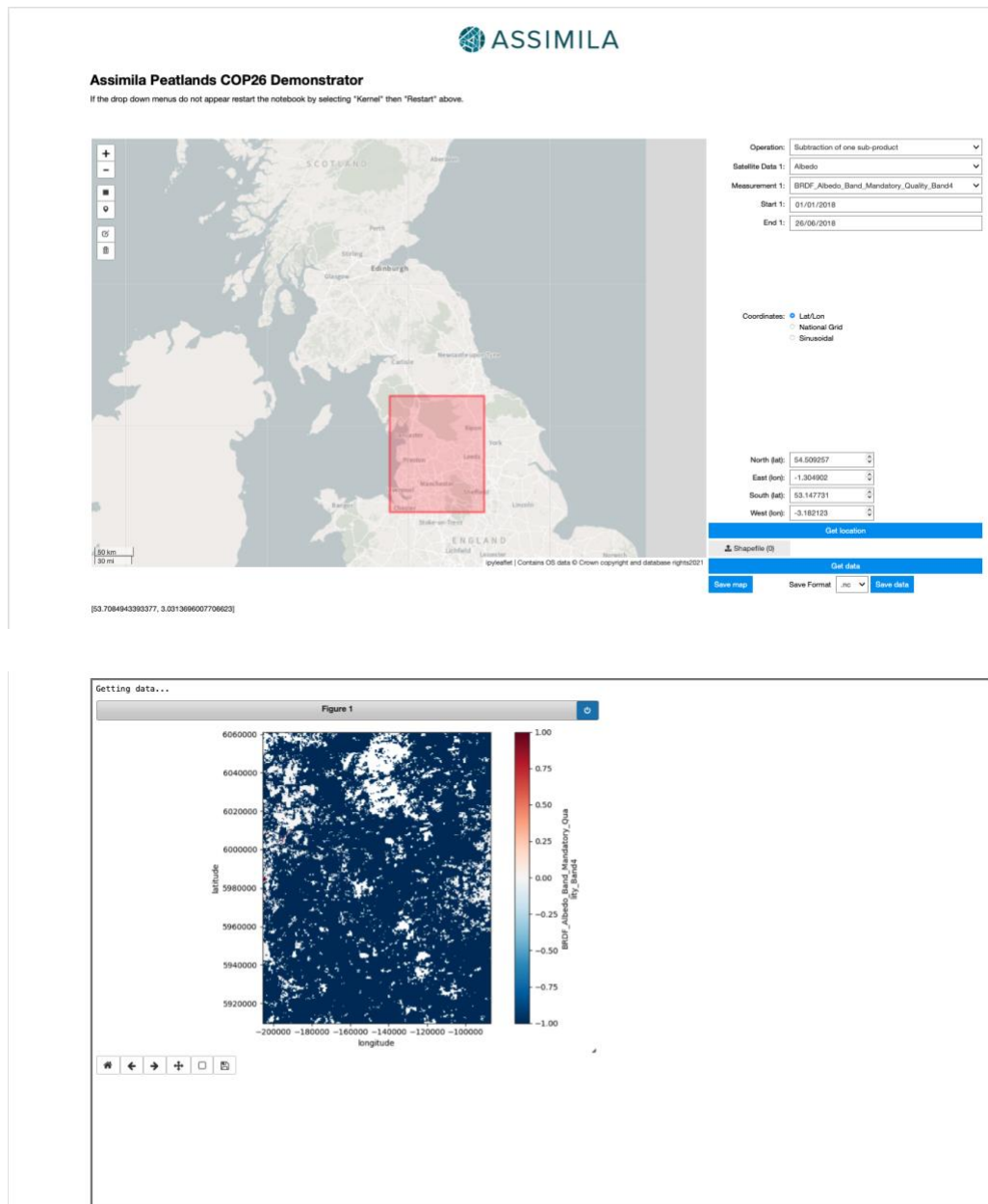
# COP26 Peatlands Demonstrator

## Operation 1: Average of one sub-product



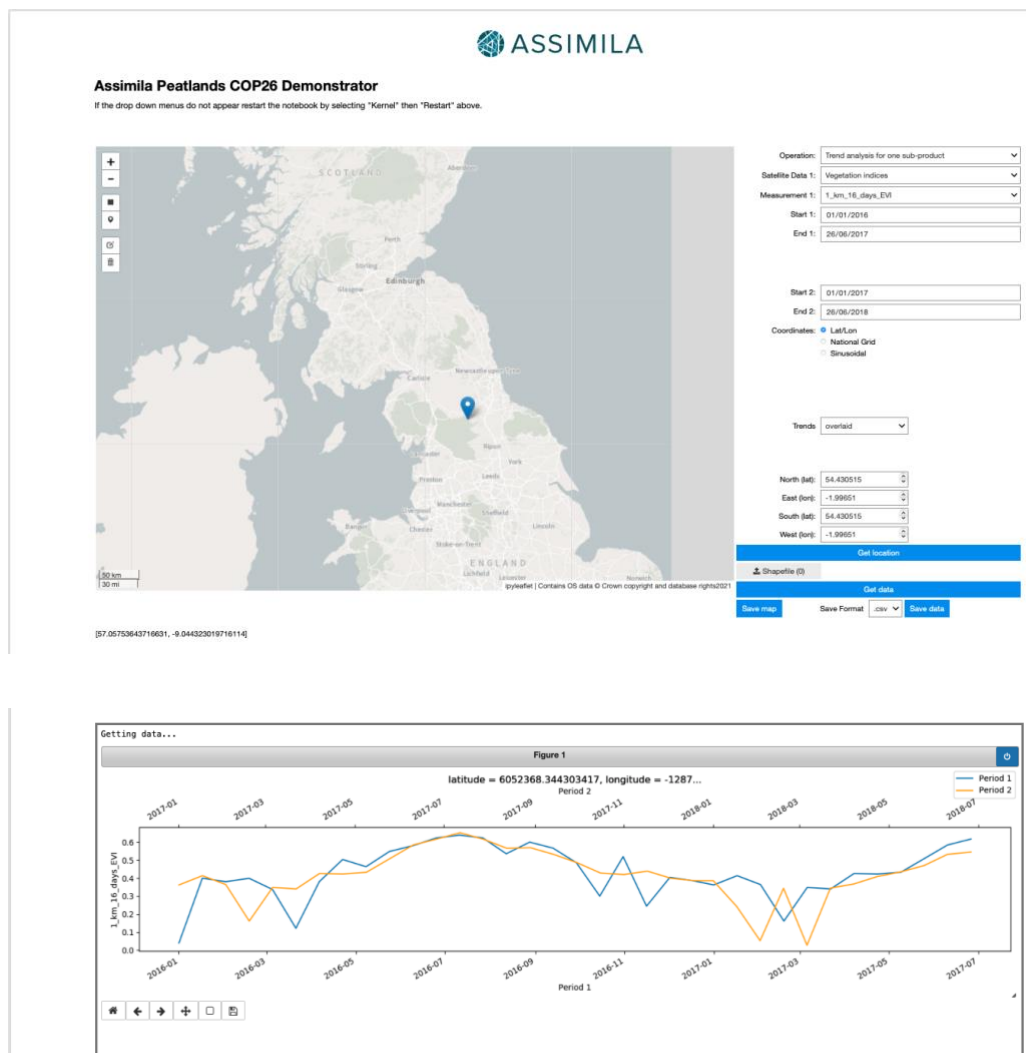
This analysis mode asks the user to select a product/sub-product, an area on the map (or point) and an averaging method. Averaging is done by pixel or by area, depending on selection, and the user can select whether to average over a period of days, months, or years. For example, if a years worth of data is selected and an averaging frequency of months is chosen, the requested DataCube data would be down sampled on the time dimension into an array of 12 monthly timesteps which are then averaged. If a map area is selected, the output is a colour map of averaged data (see above). For a point location a numerical value is output.

## Operation 2: Subtraction of one sub-product



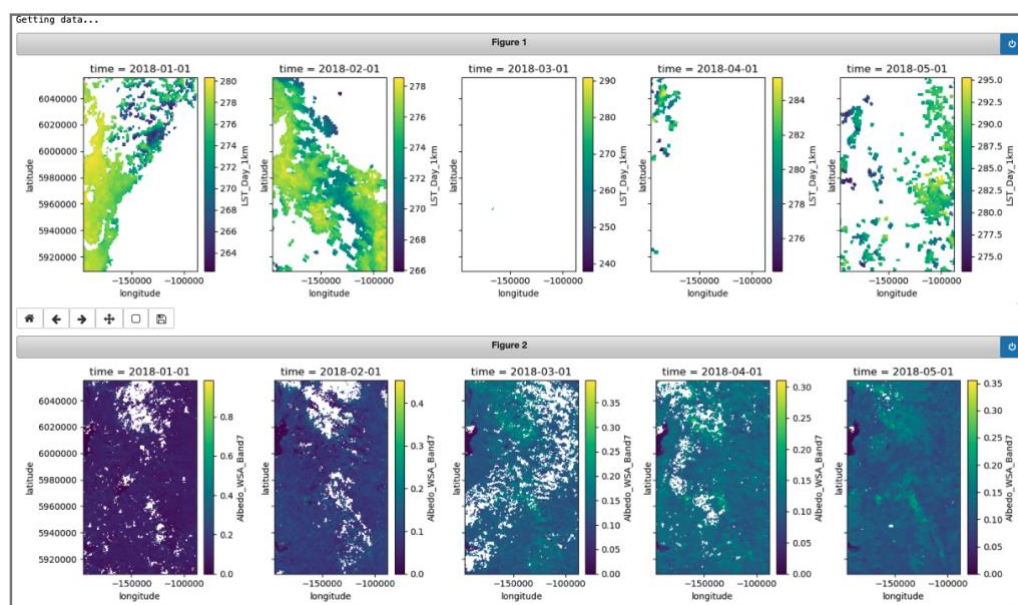
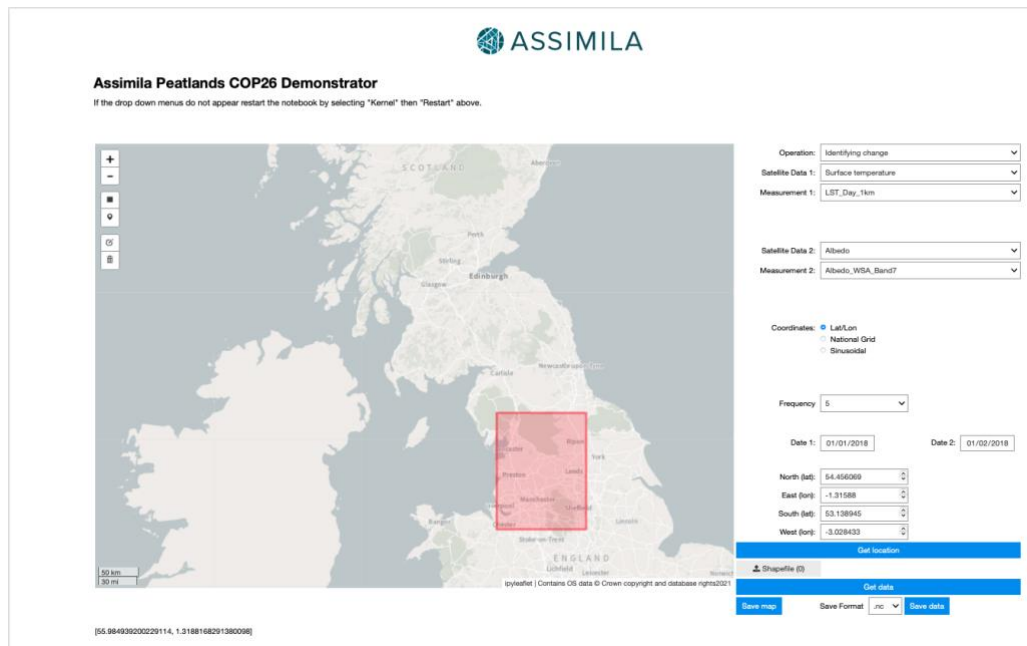
For this operation selection, the output shows the difference in a sub-product (measured values) between 2 user selected dates. In this example a colour map is output showing the difference in *BRDF\_Albedo\_band\_Mandatory\_Quality\_Band4* between the dates 01/01/2018 and 26/06/2018. Again, if a point location is selected then a numerical value is output.

## Operation 3: Trend Analysis for one sub-product



This operation selection is available for a reduced number of products/sub-products than the other operations (only for diurnal variation, evi and albedo). This mode compares a sub-product over 2 specified date ranges. Once the start/end for range 1 and range 2 are selected, the user can select if they would like timeseries plots overlaid (as above) or side by side, if a point location is selected. For an area selection, 2 colour maps are output with the average per pixel over both date ranges.

## Operation 4: Identifying change



This operation selection allows the user to compare 2 different sub-products on several dates. The frequency widget allows the user to select the number of dates they would like to visualise (a choice of 2, 3, 4 or 5). The user chooses which specific dates they would like to see. Row 1 in the image of plots above shows one sub-product on the 5 specified dates. Row 2 shows the second selected sub-product on the same 5 dates, allowing the user to identify changes between the plots.