| **Step #** | **Step Summary** | **Action** |
| --- | --- | --- |
|  | Open GUI | Double-click cate-desktop shortcut on Windows Desktop |
|  | Initialise an empty workspace. | Select File->New Workspace  Select a folder to contain the new workspace.  Create a new sub-folder named UC09 and select it.  Click Select. |
|  | Download some CCI Cloud data | Select data store: ESA CCI Open Data Portal  Highlight data source: **esacci.CLOUD.mon.L3C.CLD\_PRODUCTS.multi-sensor.multi-platform.ATSR2-AATSR.2-0.r1**  Click on “Download and/or open remote dataset”  In “Download Data Source” window:   * Select Time Constraint and select start time of **2007-01-01** and end time of **2007-03-31** * Leave the Region constraint and the Variables constraint unselected. * Select “Download and make local data source” * Set the default unique ID to **CLOUD\_2007** * Click on “Download & Open Local” |
|  | Download some CCI Ozone data | Select data store: ESA CCI Open Data Portal  Highlight data source: **esacci.OZONE.mon.L3.NP.multi-sensor.multi-platform.MERGED.fv0002.r1**  Click on “Download and/or open remote dataset”  In “Download Data Source” window:   * Select Time Constraint and select start time of **2007-01-01** and end time of **2007-03-31** * Leave the Region constraint and the Variables constraint unselected. * Select “Download and make local data source” * Set the default unique ID to **OZONE\_2007** * Click on “Download & Open Local” |
|  | Rename the Cloud dataset resource | In Workspace panel, highlight the resource **res\_1 Dataset**  Click on “Resource / Step Properties” button  Enter the new resource name as **cloud**  Click OK |
|  | Rename the Ozone dataset resource | Highlight the resource **res\_2 Dataset**  Click on “Resource / Step Properties” button  Enter the new resource name as **ozone**  Click OK |
|  | Select the desired ECV from the Cloud dataset | If operations panel not already open, click on **fx** to display operations panel  Select **select\_var** from the list of operations  Click on Apply  In the “New Operation Step” window:   * Select resource **cloud** * Select variable name **cfc** from the list and click “OK” * Click “Apply”   Highlight the resource **res\_1 Dataset**  Click on “Resource / Step Properties” button  Enter the new resource name as **cloud\_cfc**  Click OK |
|  | Select the desired ECV from the Ozone dataset | Select **select\_var** from the list of operations  Click on Apply  In the “New Operation Step” window:   * Select resource **ozone** * Select variable name: **O3\_du\_tot** from the list and click “OK” * Click “Apply”   Highlight the resource **res\_1 Dataset**  Click on “Resource / Step Properties” button  Enter the new resource name as **ozone\_tot**  Click OK |
|  | Coregister "ozone\_tot" with "cloud\_cfc" and call the result “ozone\_coreg” | Select **coregister** from the list of operations  Click on Apply  In the “New Operation Step” window:   * For **ds\_master**, select resource **cloud\_cfc** * For **ds\_slave**, select resource **ozone\_tot** * Leave method\_us as default value * Leave method\_ds as default value * Click “Apply”   Highlight the resource **res\_1 Dataset**  Click on “Resource / Step Properties” button  Enter the new resource name as **ozone\_coreg**  Click OK |
|  | Create subset of the "cloud\_cfc" resource and assign it to new resource named “cloud\_sub” | Select **subset\_spatial** from the list of operations  Click on Apply  In the “New Operation Step” window:   * Select resource: **cloud\_cfc** * For region, enter: **0,30,10,40** * Leave Mask as default value * Click “Apply”   Highlight the resource **res\_1 Dataset**  Click on “Resource / Step Properties” button  Enter the new resource name as **cloud\_sub**  Click OK |
|  | Create subset of the "ozone\_coreg" resource and assign it to new resource named “ozone\_sub” | Select **subset\_spatial** from the list of operations  Click on Apply  In the “New Operation Step” window:   * Select resource: **ozone\_coreg** * For region, enter: **0,30,10,40** * Leave Mask as default value * Click “Apply”   Highlight the resource **res\_1 Dataset**  Click on “Resource / Step Properties” button  Enter the new resource name as **ozone\_sub**  Click OK |
|  | Produce a correlation map | Select **pearson\_correlation** from the list of operations  Click on Apply  In the “New Operation Step” window:   * For **ds\_x**, select resource **ozone\_sub** * For **ds\_y**, select resource **cloud\_sub** * For **var\_x**, select **O3\_du\_tot** from the variables list * For **var\_y**, select **cfc** from the variables list * Click “Apply” |