

The location of EASTWeb V2 on Rosa.

- (1) Use “Remote desktop connection” to Rosa.
- (2) Go to Disk C and find “eastweb\_v2” (as shown in Figure 0\_1)

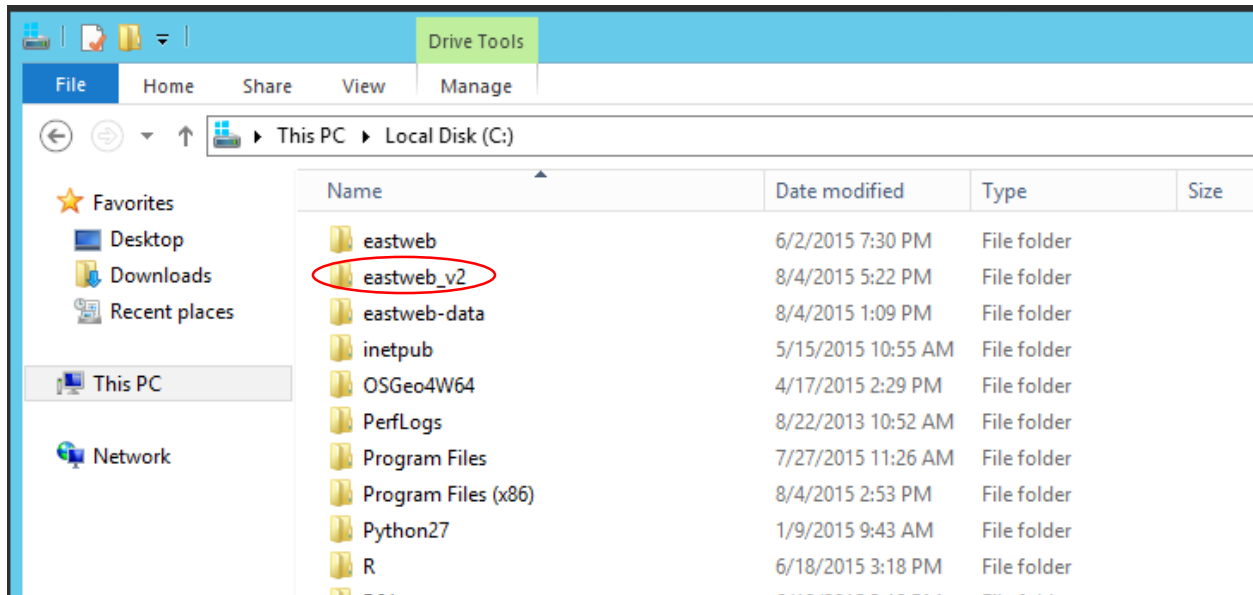


Figure 0\_1. Location of EASTWeb\_v2

- (3) Open the eastweb\_v2 folder, scroll down and find the batch file “Run EASTWeb” (as shown on Figure 0\_2). Double click it and the Main window (as shown in Figure 1) will be prompted.

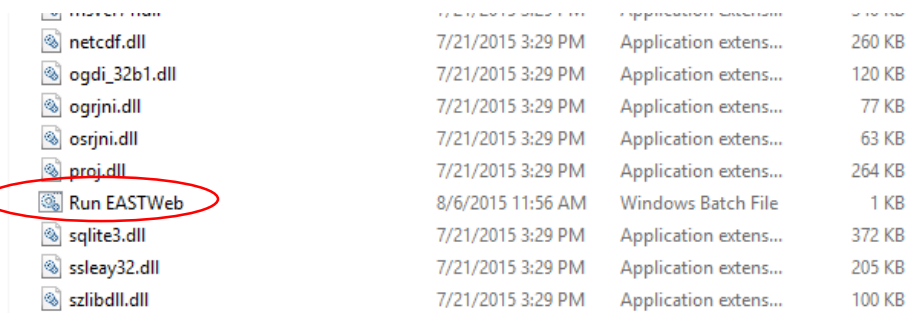


Figure 0\_1. Run EASTWeb

# I. Create a new project

## 1. Load the EASTWeb Main window

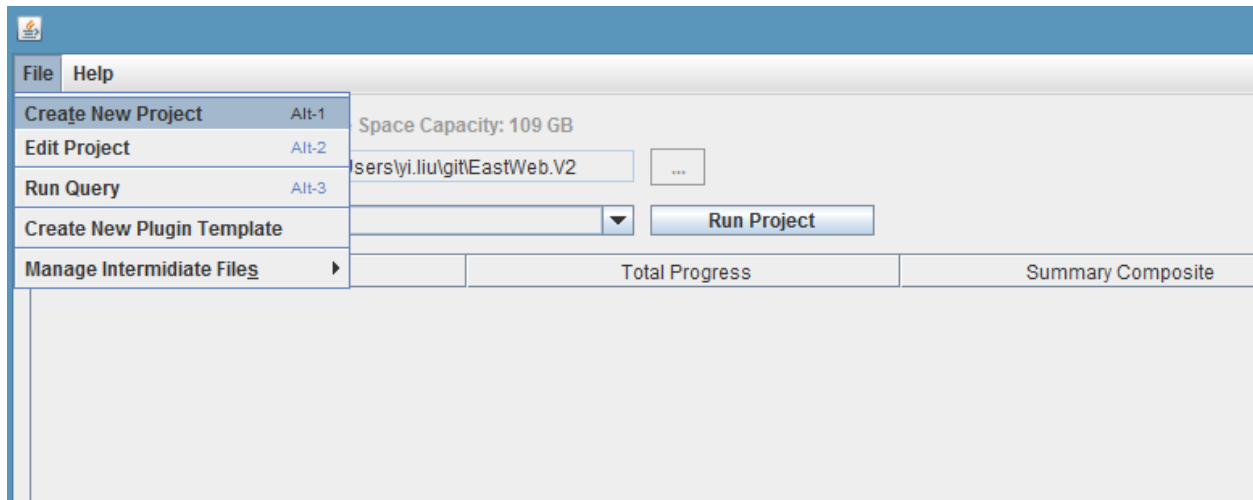


Figure 1. EASTWeb Main window

Select File -> Create New Project and a Project information window will be prompted

## 2. Project Information window

### 2.1 Adding plugins

#### Step 1. Load the Plugin Information Window

Click the “+” button on the top left corner of the Project information window (Figure 2)

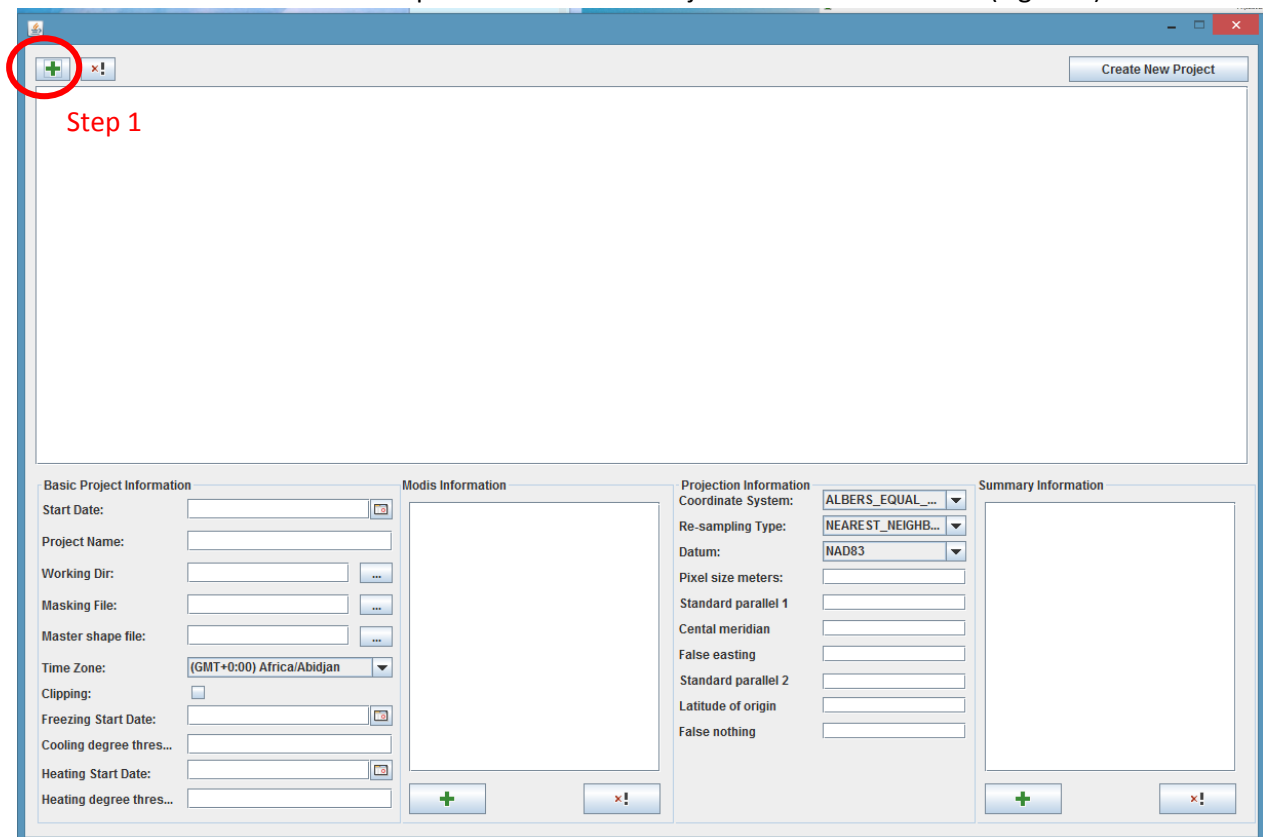


Figure 2. Project Information window

A plugin information window (Figure 3) will be prompted.

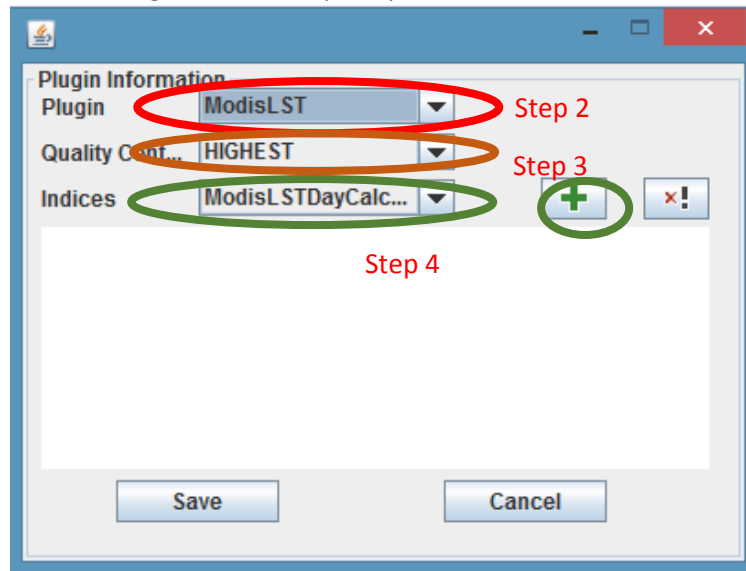


Figure 3. Plugin Information window

Step 2. select a plugin

Use the “Plugin” dropdown box (highlighted in red in the Figure 3) to choose a plugin for a project.

Step 3. choose quality control

Use the “Quality control” dropdown box (highlighted in orange in the Figure 3) to choose the desired quality level.

Step 4. Choose Indices

Use the “Indices” dropdown box (highlighted in green in the Figure 3 ) to choose one index calculator, click the “+” button in green to add it in.

Repeat this step until all the desired indices are added in. Figure 4 shows ModisLST plugin with three indices selected.

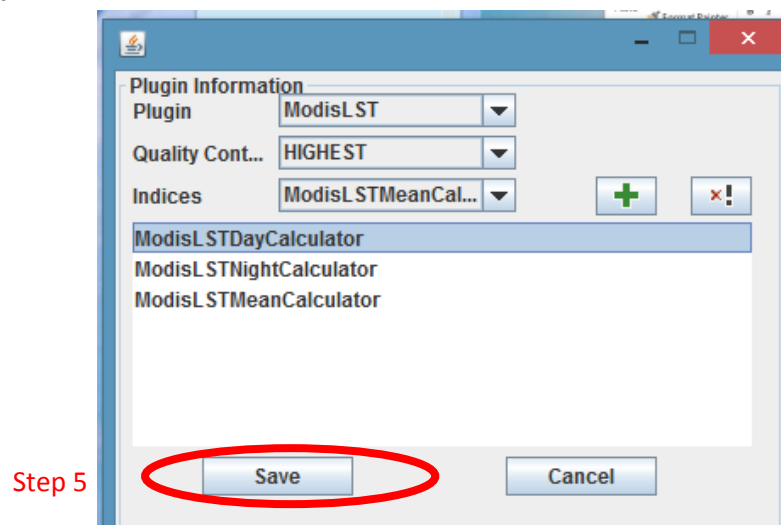


Figure 4. ModisLST plugin with three indices selected

To remove an index, highlight the index and click the “x!” button.

### Step 5. Save the Plugin information

Click “Save” button (highlighted in red in Figure 4).

The Plugin Information will be shown in the Project Information window (Figure 5).

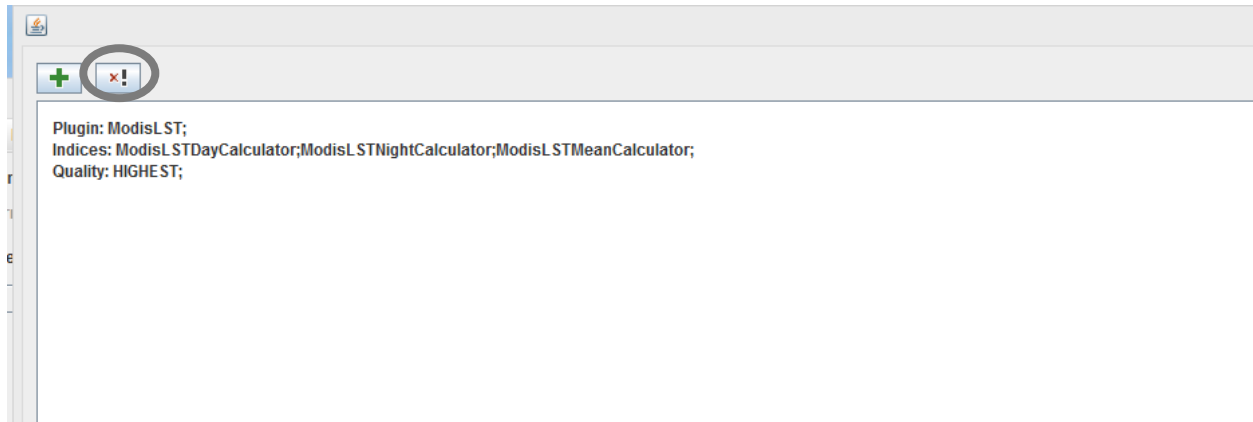


Figure 5. Project Information window after a plugin is added in

Repeat step 1 through step 5 to add more plugins to the project.

To remove a plugin, in the Project Information window, highlight the plugin and click “x!” button (highlighted in grey in Figure 5).

### 2.2 Input Basic Project Information

A screenshot of the 'Basic Project Information' section of a software window. It contains several input fields and controls: 'Start Date:' with a text box containing 'Jul 1, 2015' and a calendar icon; 'Project Name:' with a text box containing 'Project\_Amhara'; 'Working Dir:' with a text box containing 'D:\testProjects\Amhara' and a browse button (...); 'Masking File:' with a text box containing 'mask\Ethiopia\_watermask.tif' and a browse button (...); 'Master shape file:' with a text box containing 'reda\_new\Woreda\_new.shp' and a browse button (...); 'Time Zone:' with a dropdown menu showing '(GMT+3:00) Africa/Djibouti'; 'Clipping:' with an unchecked checkbox; 'Freezing Start Date:' with a text box and a calendar icon; 'Cooling degree thres...' with a text box; 'Heating Start Date:' with a text box and a calendar icon; and 'Heating degree thres...' with a text box. The window has a light grey background and a standard Windows-style title bar.

Figure 6. Basic Project Information section in the Project Information Window

Add all the needed information about the project. The sample information of a project is shown in Figure 6.

### 2.3 Input MODIS tiles if MODIS products are used

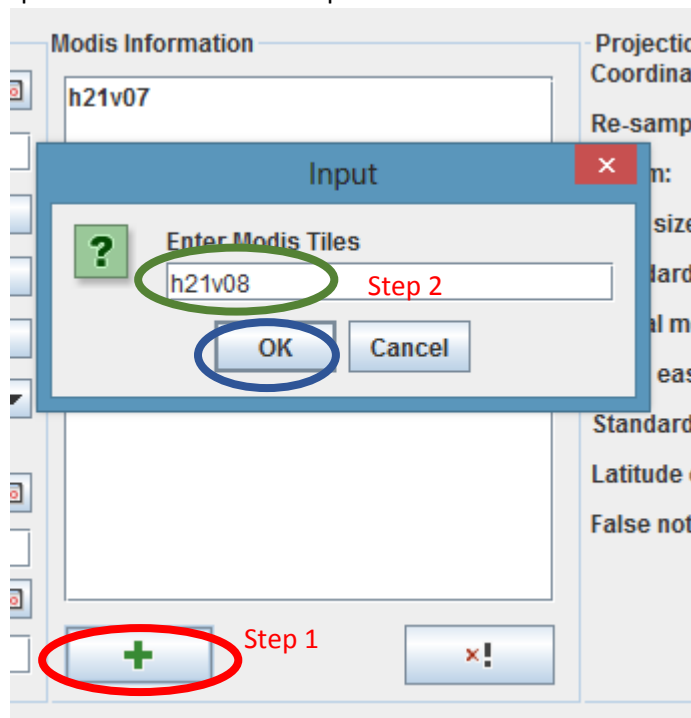


Figure 7. MODIS Information section in the Project Information Window

To add MODIS tiles, please follow the three steps illustrated below:

Step 1: Click the “+” (highlighted in red) in the MODIS Information section shown in Figure 7.

Step 2: Enter a tile in the prompted dialog window. The valid format for a tile is *h* followed by two digits and *v* following by two digits. Click “OK” button to add the tile.

Step 3: Repeat step 1 and step 2 until all the desired tiles are added.

### 2.4 Input Projection Information

Enter desired information in the Projection Information section as shown in Figure 8.

The image shows the 'Projection Information' section of the 'Project Information' window. It contains the following fields and values:

Field	Value
Coordinate System:	TRANSVERSE_ME...
Re-sampling Type:	BILINEAR
Datum:	WGS84
Pixel size meters:	1000
Standard parallel 1	0.0
Central meridian	39.0
False easting	50000.0
Standard parallel 2	0.0
Latitude of origin	0.0
False nothing	0.0

Figure 8. Projection Information section in the Project Information Window

## 2.5 Summary Information

To add summary units, please follow the three steps listed below:

Step 1: Click the “+” button in the Summary information section in the Project Information Window.

Step 2: Select the shapefile, field name and temporal summary in the prompted window (shown in Figure 10) and click the “Save” button.

Step 3: Repeat step 1 and step 2 until the desired summary units are all added. Figure 11 shows the display of the summary units in the Summary Information section.



Figure 9. Summary Information section

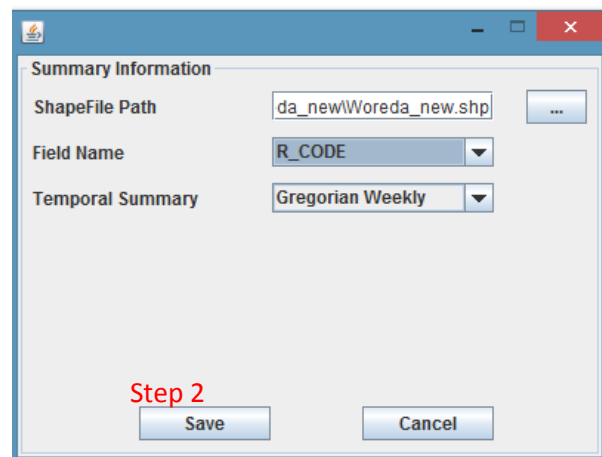


Figure 10. Prompt window for summary units

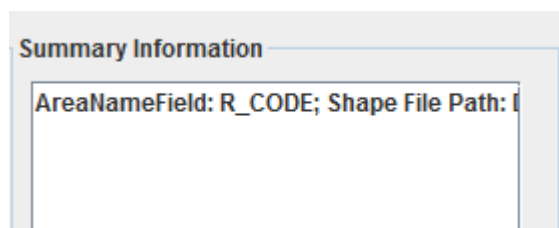


Figure 11. A summary unit is added.

## 2.6 Create the new project

Click the “Create New Project” button on the right corner of the Project Information window. After a message “Project was saved!” prompted and the “ok” button is clicked, the Main window will be brought back.

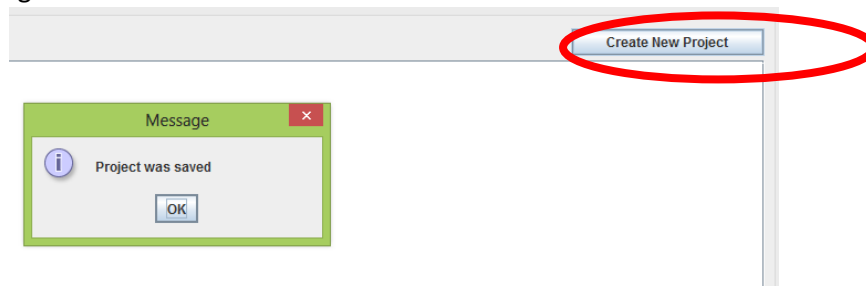


Figure 12. “Create New Project” button on the Project Information window

## II. Run Projects

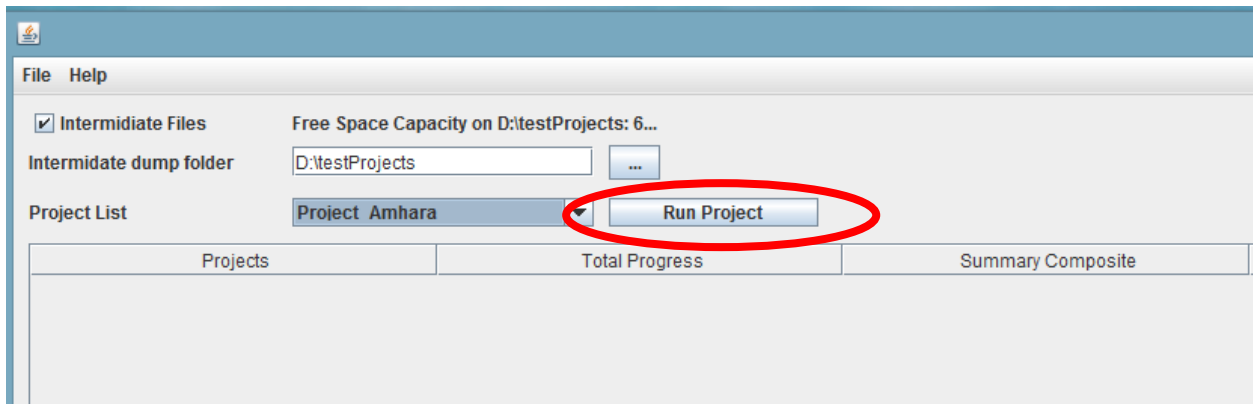


Figure 13. Main window

The created projects are listed in the “Project List”. Check the “Intermediate Files” to save the files produced during the processing and choose a location to store the intermediate files. Select the project in the “Project List” and then click the “Run Project” button.

Figure 14 shows the status of a running project.

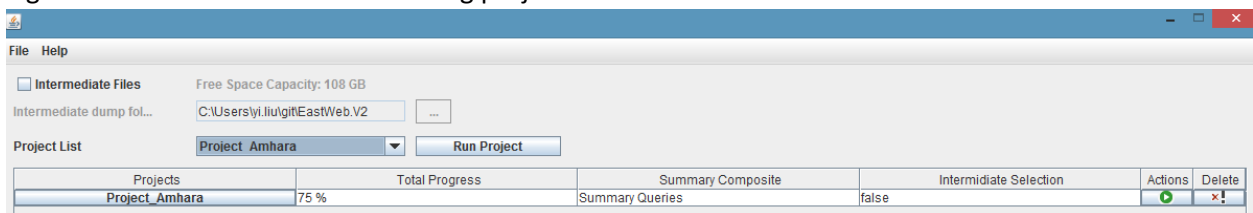


Figure 14. Project processing status

## III. Query Database

To query the summary in the database, select File -> Run query in the Main window. The query UI will be prompted as shown in Figure 15.

Step 1: Select the project in the dropdown menu, then fill in the query criteria. A sample is shown in Figure 16.

Step 2: click “Query” button.

Project: Project\_Amhara View SQL

Fields

☐ count ☐ sum ☐ mean ☐ stdev

Clause Statement

☐ Zone ☐ Year ☐ Day

Enviromental Index

Include >> Exclude <<

Query Cancel

Figure 15. Query window

Project: Project\_Amhara View SQL

Fields

☒ count ☒ sum ☐ mean ☐ stdev

Clause Statement

☒ Zone ☐ Year ☐ Day

Enviromental Index

Include >> Exclude <<

Query Cancel

Figure 16. Filled query