

First Day 14th December,2023

Time:2:30-3:45 pm

HANDS ON EXCERSISE IN QGIS

Topic

- 1. Downloading of QGIS Software and its Installation.**
- 2. Details of Modules in QGIS**

By

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HANDS ON EXERCISE

1. Downloading of QGIS Software and its Installation.

2. Details of Modules in QGIS

OPEN CHROME

Type-Download QGIS

The image shows a Microsoft PowerPoint presentation window with a Google search engine interface overlaid. The search query is "download qgis". The search results show several links to QGIS download pages. A red arrow points from the text "Type-Download QGIS" to the search bar.

Search results for "download qgis":

- QGIS
<https://www.qgis.org> › site › forusers › download
- Download QGIS**
Download **QGIS** for your platform. Binary packages (installers) are available from this page. The current version is QGIS 3.34.1 'Prizren' and was released on ...
QGIS Installers · Index of /downloads/macOS · Discover QGIS · Donations
- QGIS
<https://download.qgis.org>
- QGIS download**
[DIR], **downloads/**, 2023-11-24 20:12, -.
Index of /downloads · QGIS API Documentation · Of /qgisdata
- QGIS
<https://timdocs.qgis.org> › site › forusers › download

Windows taskbar: Type here to search, 11°C, 6:40 PM Saturday 12/2/2023

Click Here

The screenshot shows a Microsoft PowerPoint window titled "New Microsoft Office PowerPoint Presentation - Microsoft PowerPoint" with a browser window open in the background. The browser window displays a Google search for "download qgis". The search results show "About 1,94,00,000 results (0.34 seconds)". The first result is "QGIS" with the URL "https://www.qgis.org", site "forusers", and "download". Below this is the heading "Download QGIS" and a description: "Download QGIS for your platform. Binary packages (installers) are available from this page. The current version is QGIS 3.34.1 'Prizren' and was released on ...". There are also links for "QGIS Installers", "Index of /downloads/macOS", "Discover QGIS", and "Donations". The second result is "QGIS" with the URL "https://download.qgis.org", site "forusers", and "download". Below this is the heading "QGIS download" and a description: "[DIR], downloads/, 2023-11-24 20:12, -". There are also links for "Index of /downloads", "QGIS API Documentation", and "Of /qgisdata". The third result is "QGIS" with the URL "https://timdocs.qgis.org", site "forusers", and "download". Below this is the heading "Download QGIS".

Click Here (To Download QGIS)

The image shows a browser window displaying the QGIS website's download page. The browser's address bar shows the URL `qgis.org/en/site/forusers/download.html`. The website's navigation bar includes the QGIS logo, version numbers (3.34.1 and 3.28.13 LTR), and menu items: DISCOVER QGIS, FOR USERS, GET INVOLVED, and DOCUMENTATION. A search bar and a language dropdown set to 'English' are also present. The main content area features the heading 'Download QGIS for your platform' and text stating that binary packages are available, with the current version being QGIS 3.34.1 'Prizren' (released 24.11.2023) and long-term repositories offering QGIS 3.28.13 'Firenze'. Below this text are three tabs: 'INSTALLATION DOWNLOADS' (selected), 'ALL RELEASES', and 'SOURCES'. A section titled 'Download for Windows' is expanded, revealing a large green button with the QGIS logo and the text 'Download QGIS 3.34'. A red arrow points from the top text to this button. In the bottom right corner, there is a watermark for 'Activate Windows' with the instruction 'Go to Settings to activate Windows.'

QGIS-Interface

The background of the slide is a green-tinted historical map of Florence, Italy. In the top left corner, there is a rectangular frame containing the text "PIANTA DELLA CITTA' DI FIRENZE" and "Tom. II. lib. I.". In the top right corner, there is a circular emblem featuring a fleur-de-lis. The text "QGIS 3.28 Firenze" is overlaid in large white font across the center of the map. The "Q" in QGIS has a white mouse cursor arrow pointing to it. The word "Firenze" is written in a smaller font below "3.28".

QGIS 3.28
Firenze

Setting up the GUI

First Day 14th December, 2023

Time: 2:30-3:45 pm

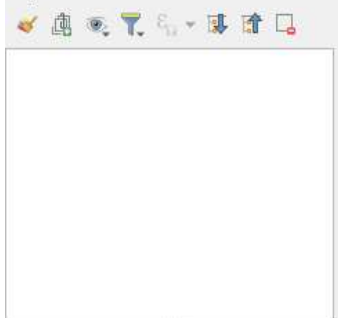
HANDS ON EXERCISE

1. Downloading of QGIS Software and its Installation.

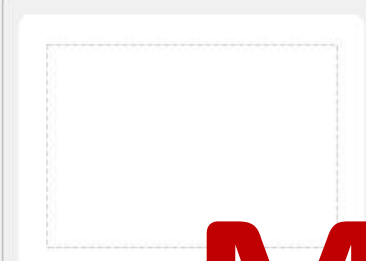
2. Details of Menu in QGIS

QGIS-Interface

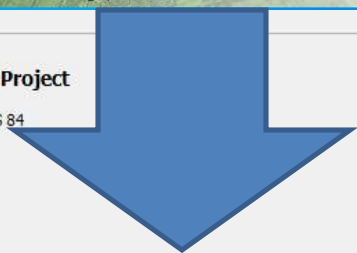




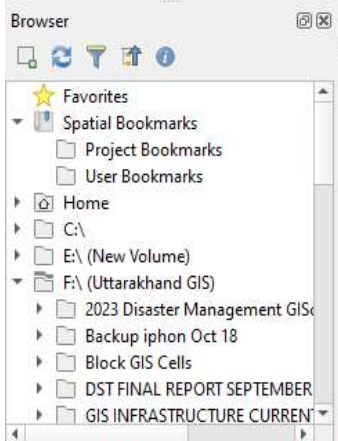
Project Templates



New Empty Project
EPSG:4326 - WGS 84

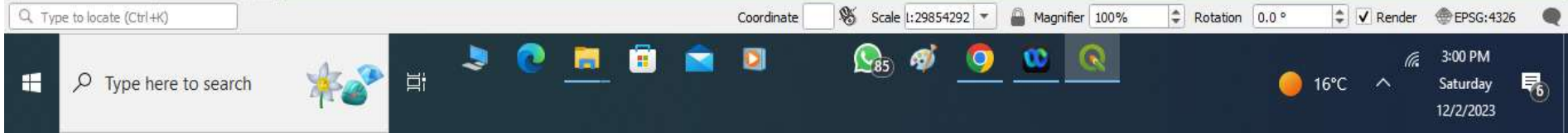


Menu -11



New QGIS version available: Visit <https://download.qgis.org> to get your copy of version 3.28.13

Activate Windows
Go to Settings to activate Windows.



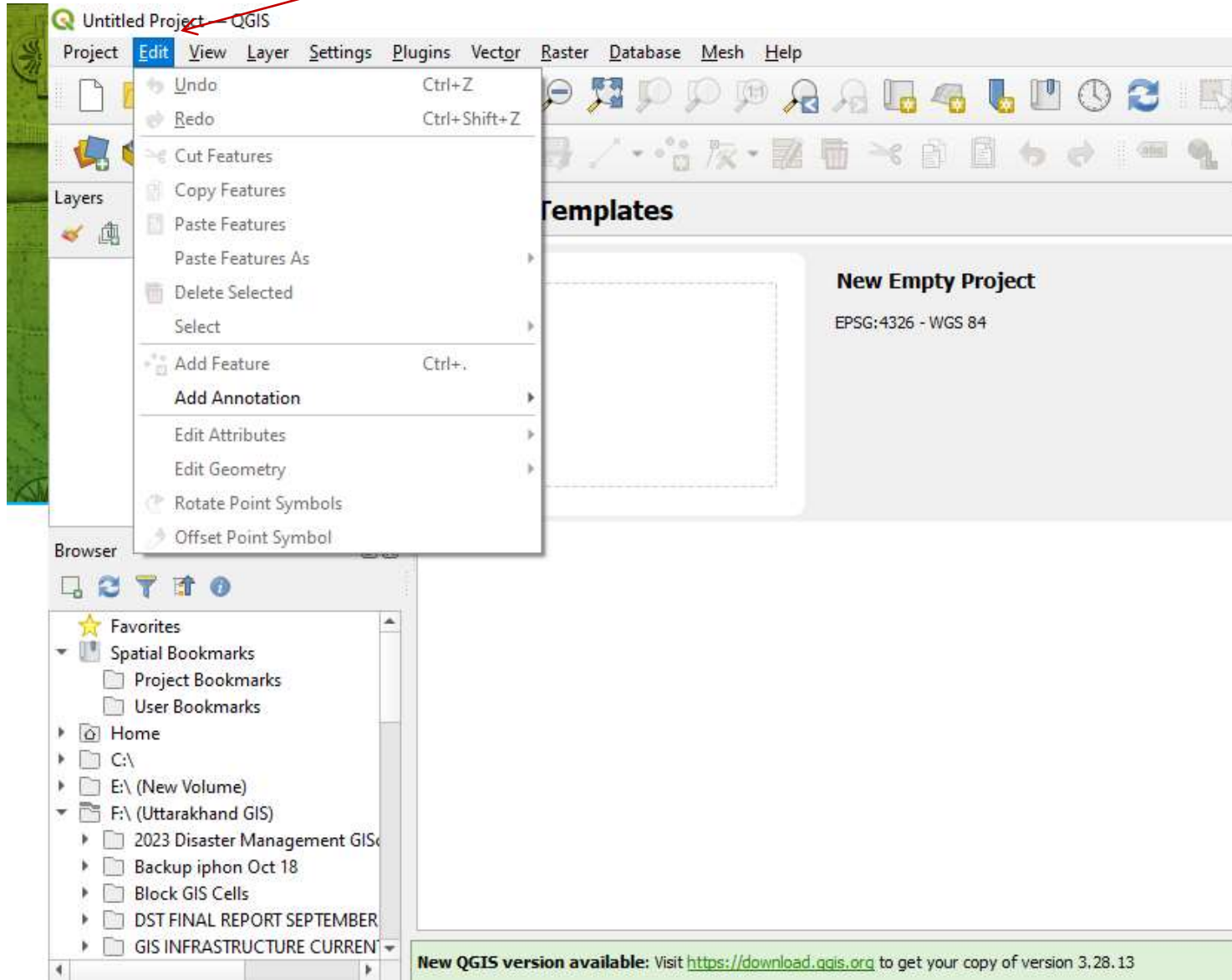


- **Menu -1: Project**
 - **Menu-2 :Edit**
 - **Menu-3 :View**
 - **Menu-4 :Layer**
 - **Menu-5 :Setting**
 - **Menu-6:Plugin**
 - **Menu-7:Vector**
 - **Menu-8:Raster**
- **Menu-9 :Database**
 - **Menu-10:Mesh**
 - **Menu-11:Help**

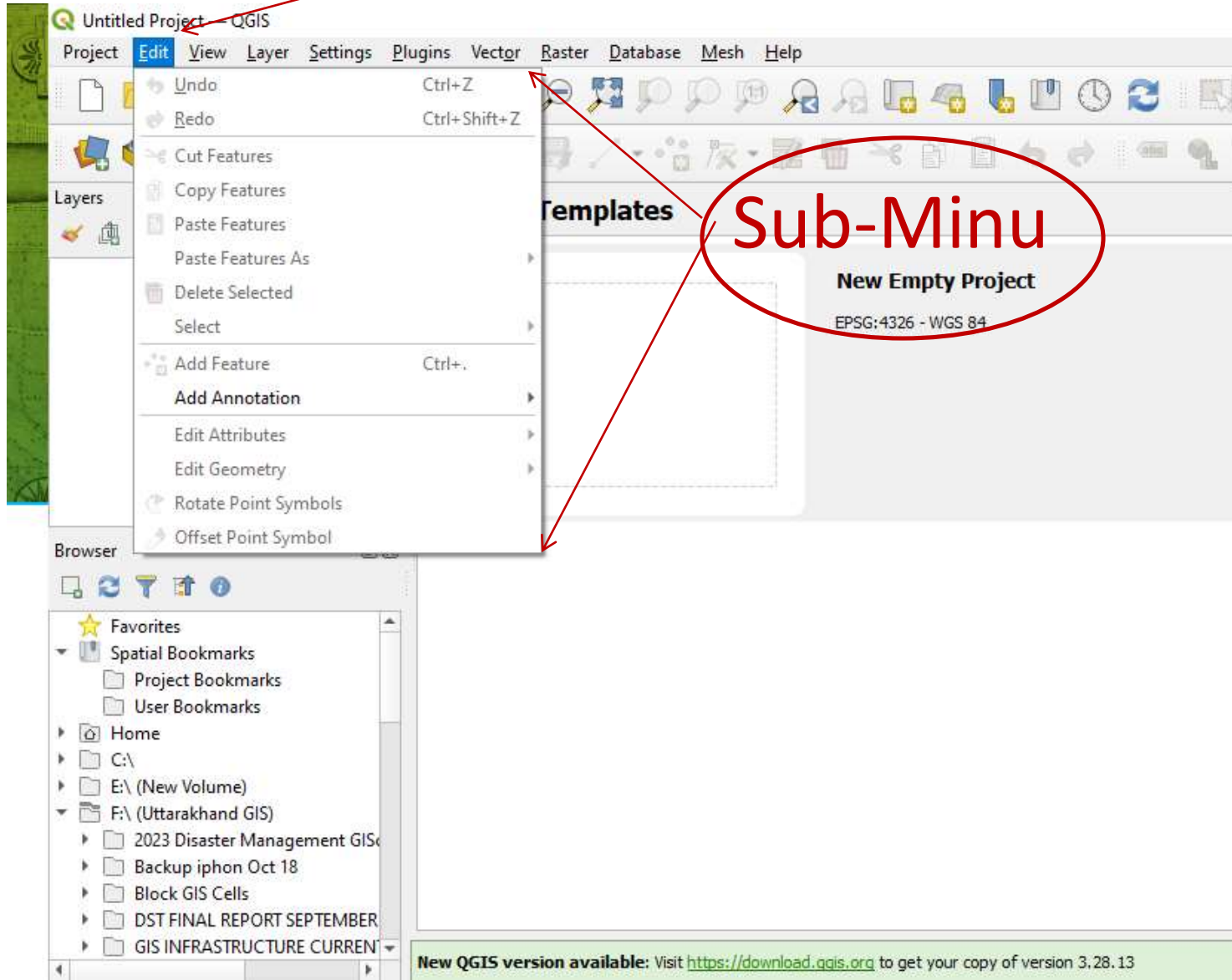
Menu -1: Project

The screenshot displays the QGIS desktop application. At the top, the title bar reads "Untitled Project - QGIS". Below it is a menu bar with the following items: Project, Edit, View, Layer, Settings, Plugins, Vector, Raster, Database, Mesh, and Help. A red arrow points from the "Menu -1: Project" text above to the "Project" menu item. The main workspace is divided into several panels. On the left is the "Layers" panel, which is currently empty. Below it is the "Browser" panel, showing a file tree with "Favorites" (Spatial Bookmarks, Project Bookmarks, User Bookmarks) and a list of folders including "Home", "C:\", "E:\ (New Volume)", and "F:\ (Uttarakhand GIS)". The central panel is titled "Project Templates" and features a "New Empty Project" template with a dashed border and the text "EPSG:4326 - WGS 84". At the bottom of the main workspace, a green banner states: "New QGIS version available: Visit <https://download.qgis.org> to get your copy of version 3.28.13". The bottom status bar includes a search field, coordinate and scale information (Scale: 1:29854292), rotation (0.0°), and system tray icons for weather (16°C), time (3:00 PM), and date (Saturday, 12/2/2023).

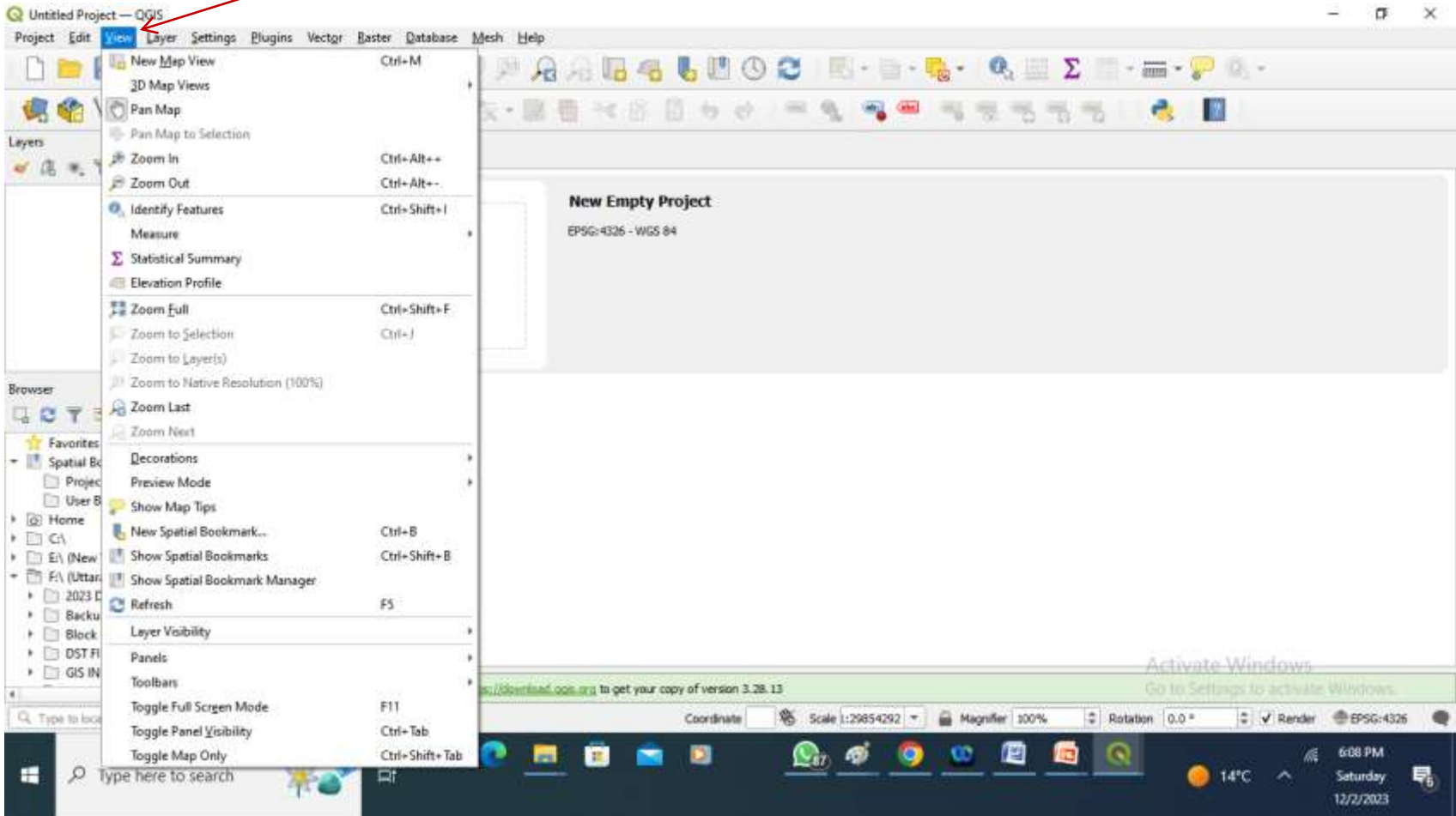
Menu-2 :Edit



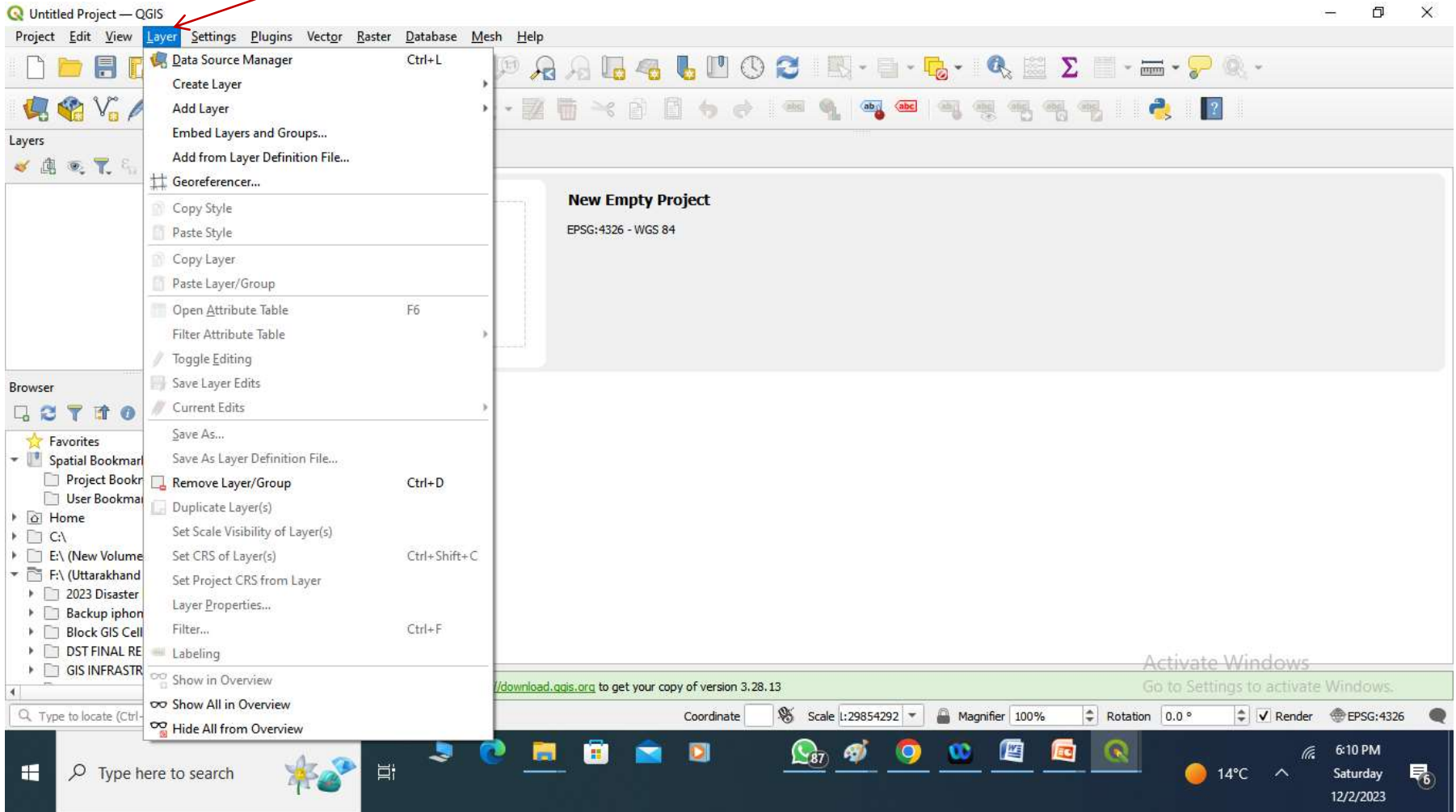
Menu-2 :Edit



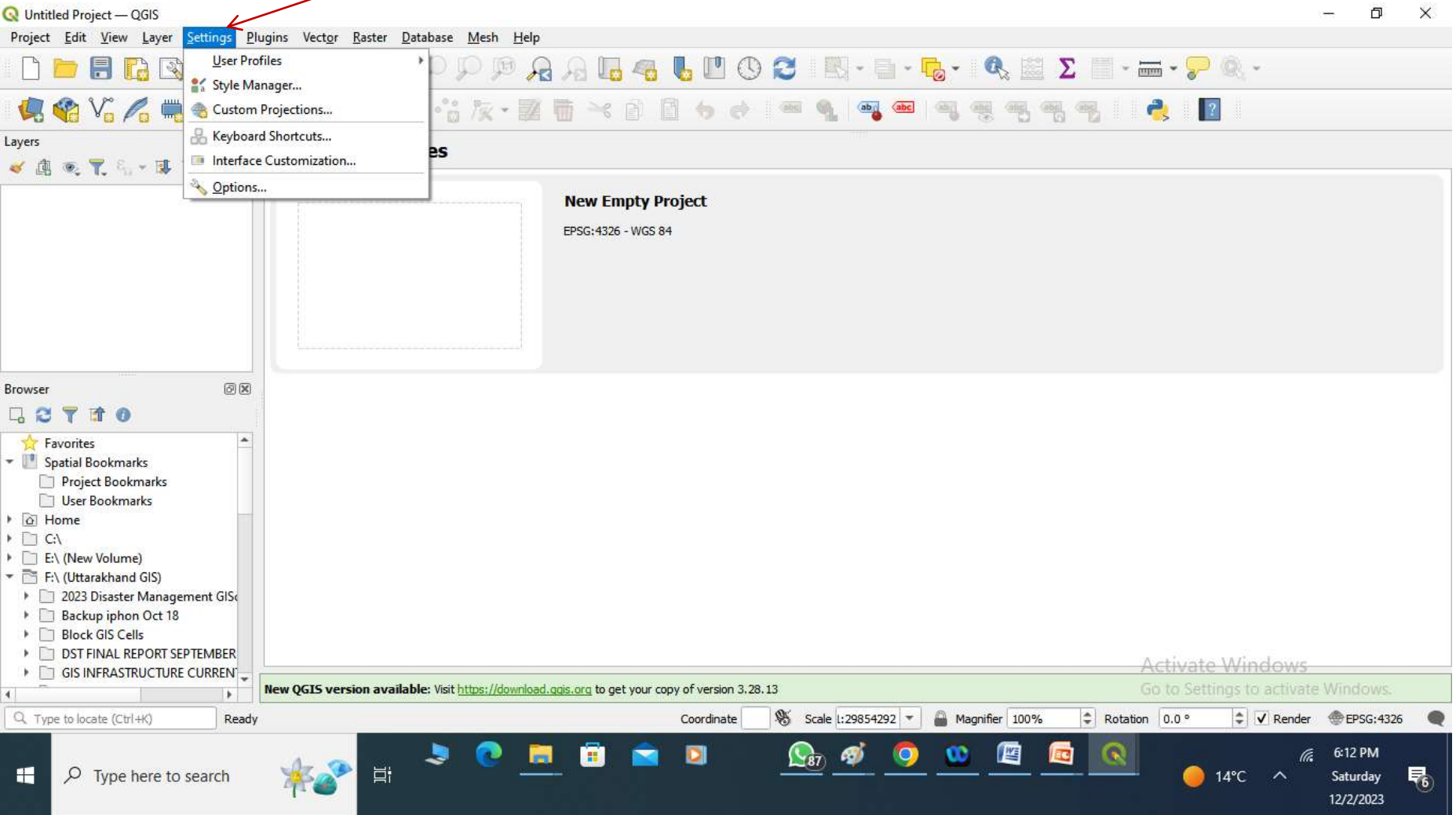
Menu-3 :View



Menu-4 :Layer



Menu-5 :Setting



Menu-6:Plugin

The screenshot shows the QGIS desktop application interface. The title bar reads "Untitled Project — QGIS". The menu bar includes "Project", "Edit", "View", "Layer", "Settings", "Plugins", "Vector", "Raster", "Database", "Mesh", and "Help". A red arrow points to the "Plugins" menu, which is open, showing options for "Manage and Install Plugins..." and "Python Console" (with the keyboard shortcut "Ctrl+Alt+P").

The main workspace is titled "Project Templates" and displays a "New Empty Project" template with the coordinate system "EPSG:4326 - WGS 84".

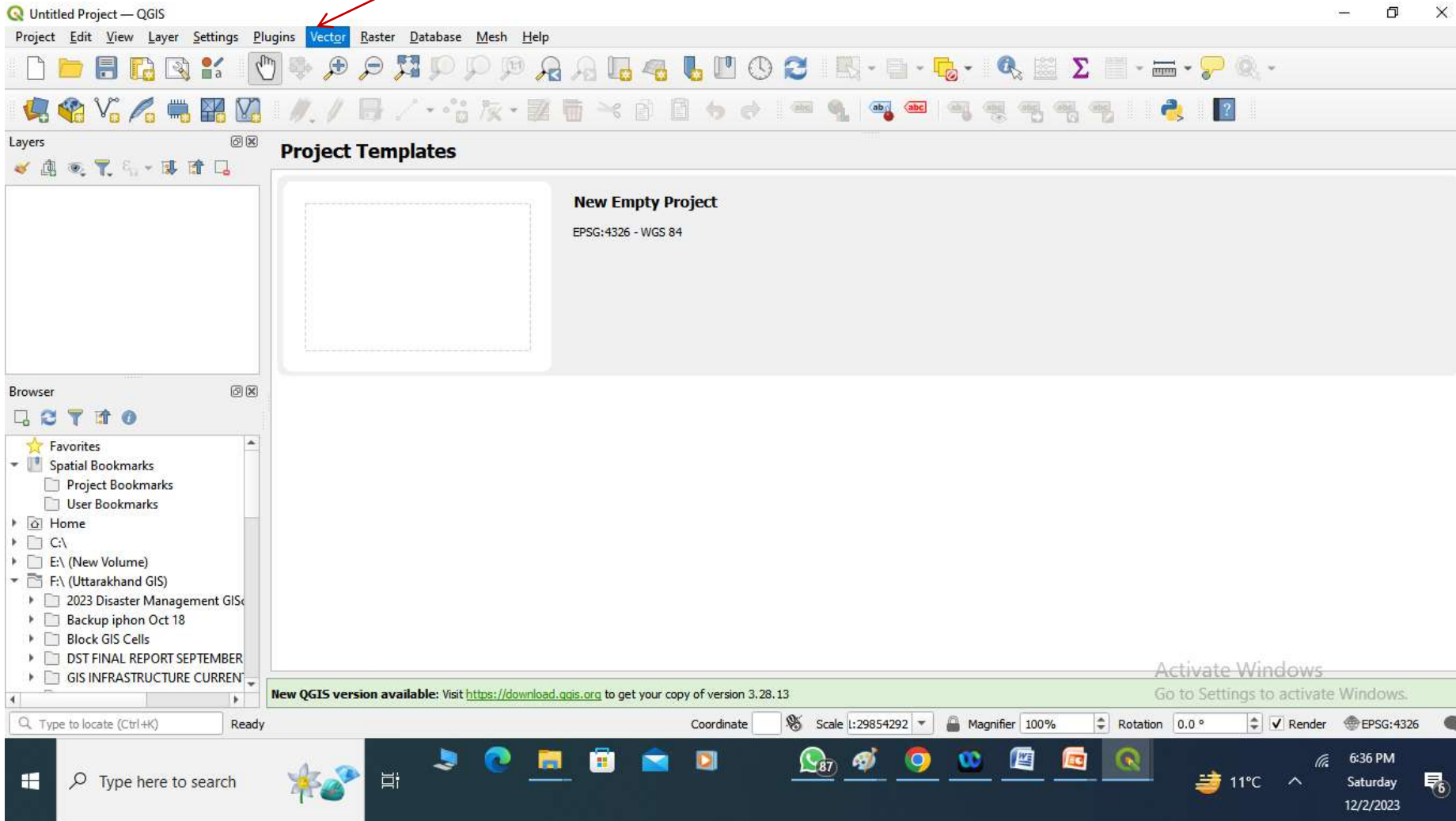
On the left side, there are panels for "Layers" (currently empty) and "Browser". The "Browser" panel shows a file tree with "Favorites" expanded, including "Spatial Bookmarks" (with sub-items "Project Bookmarks" and "User Bookmarks"), "Home", "C:\", "E:\ (New Volume)", and "F:\ (Uttarakhand GIS)" with several sub-folders.

At the bottom, a green notification bar states: "New QGIS version available: Visit <https://download.qgis.org> to get your copy of version 3.28.13". To the right of this bar, there is a watermark for "Activate Windows" and a link to "Go to Settings to activate Windows.".

The bottom status bar shows "Coordinate" (empty), "Scale 1:29854292", "Magnifier 100%", "Rotation 0.0 °", "Render" (checked), and "EPSG:4326".

The Windows taskbar at the very bottom includes the search bar "Type here to search", the taskbar icons, and the system tray showing "14°C", "6:14 PM", "Saturday", and "12/2/2023".

Menu-7:Vector

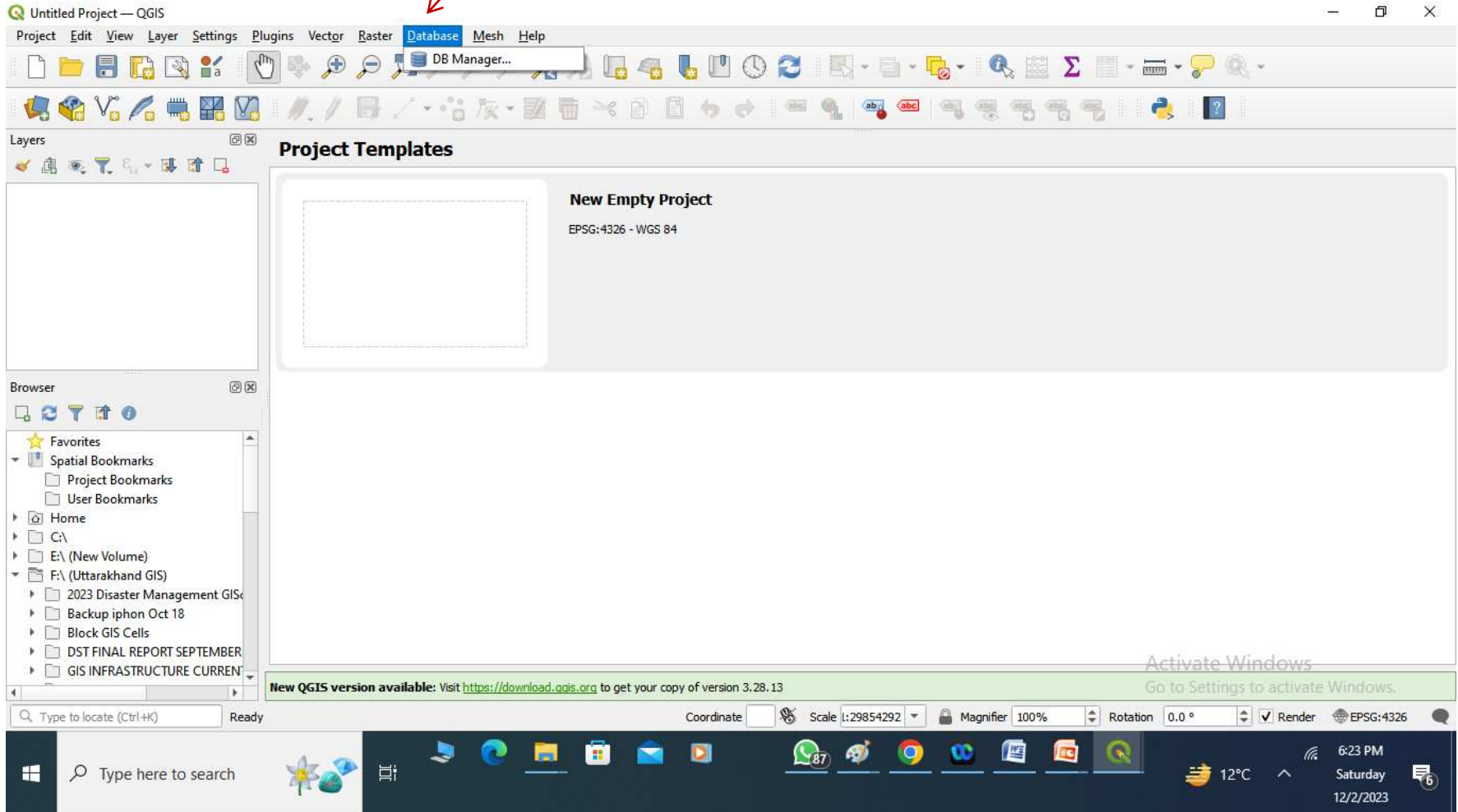


Menu-8:Raster

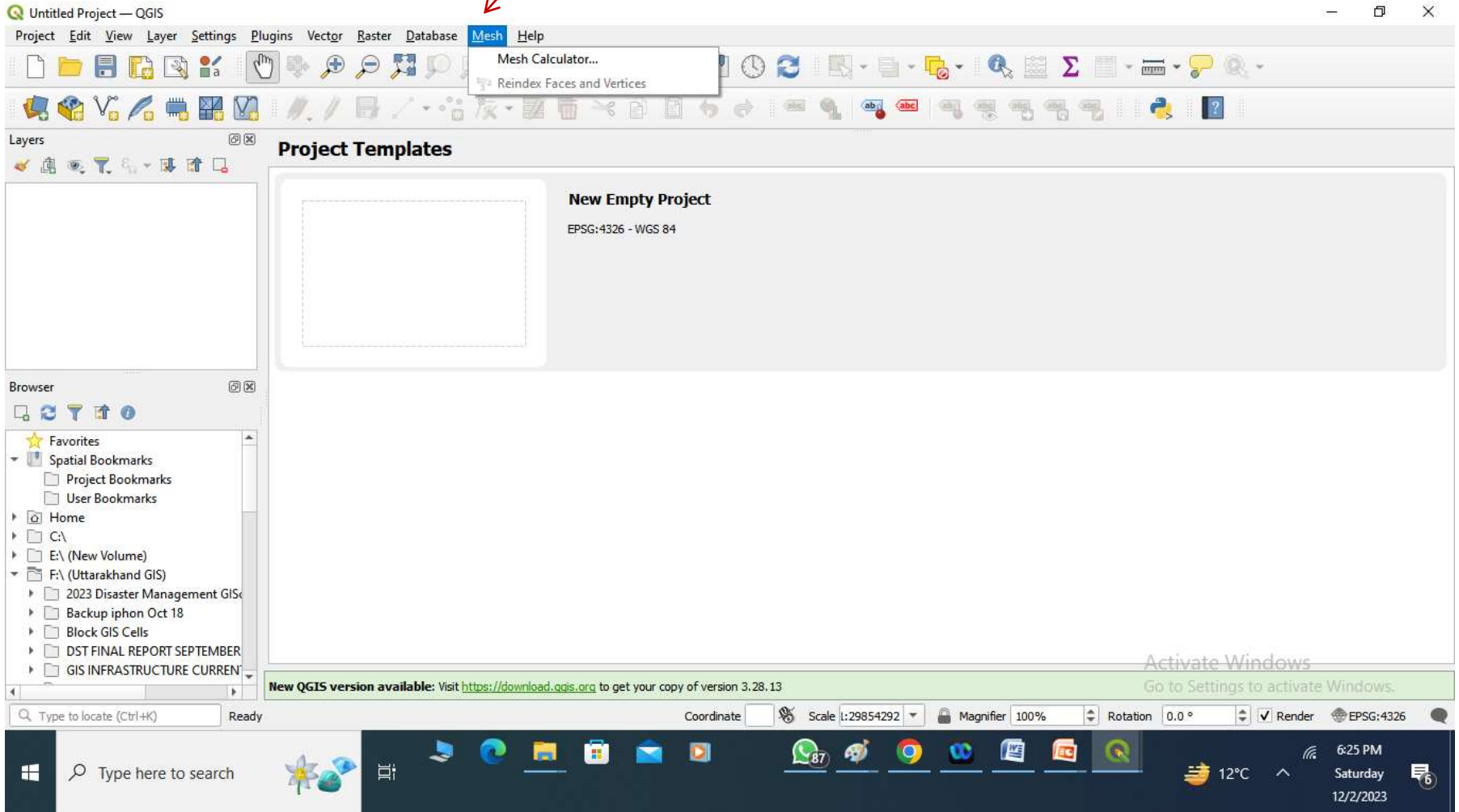


The screenshot displays the QGIS desktop application. The title bar reads "Untitled Project — QGIS". The menu bar includes "Project", "Edit", "View", "Layer", "Settings", "Plugins", "Vector", "Raster", "Database", "Mesh", and "Help". The "Raster" menu is currently open, showing options for "Raster Calculator...", "Align Rasters...", and "Align Rasters...". The main workspace is titled "Project Templates" and features a "New Empty Project" button with the coordinate system "EPSG:4326 - WGS 84". On the left, the "Layers" panel is empty, and the "Browser" panel shows a file tree with "Favorites" and "Spatial Bookmarks". A green notification bar at the bottom states "New QGIS version available: Visit <https://download.qgis.org> to get your copy of version 3.28.13". The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray with a temperature of 14°C and the date Saturday, 12/2/2023.

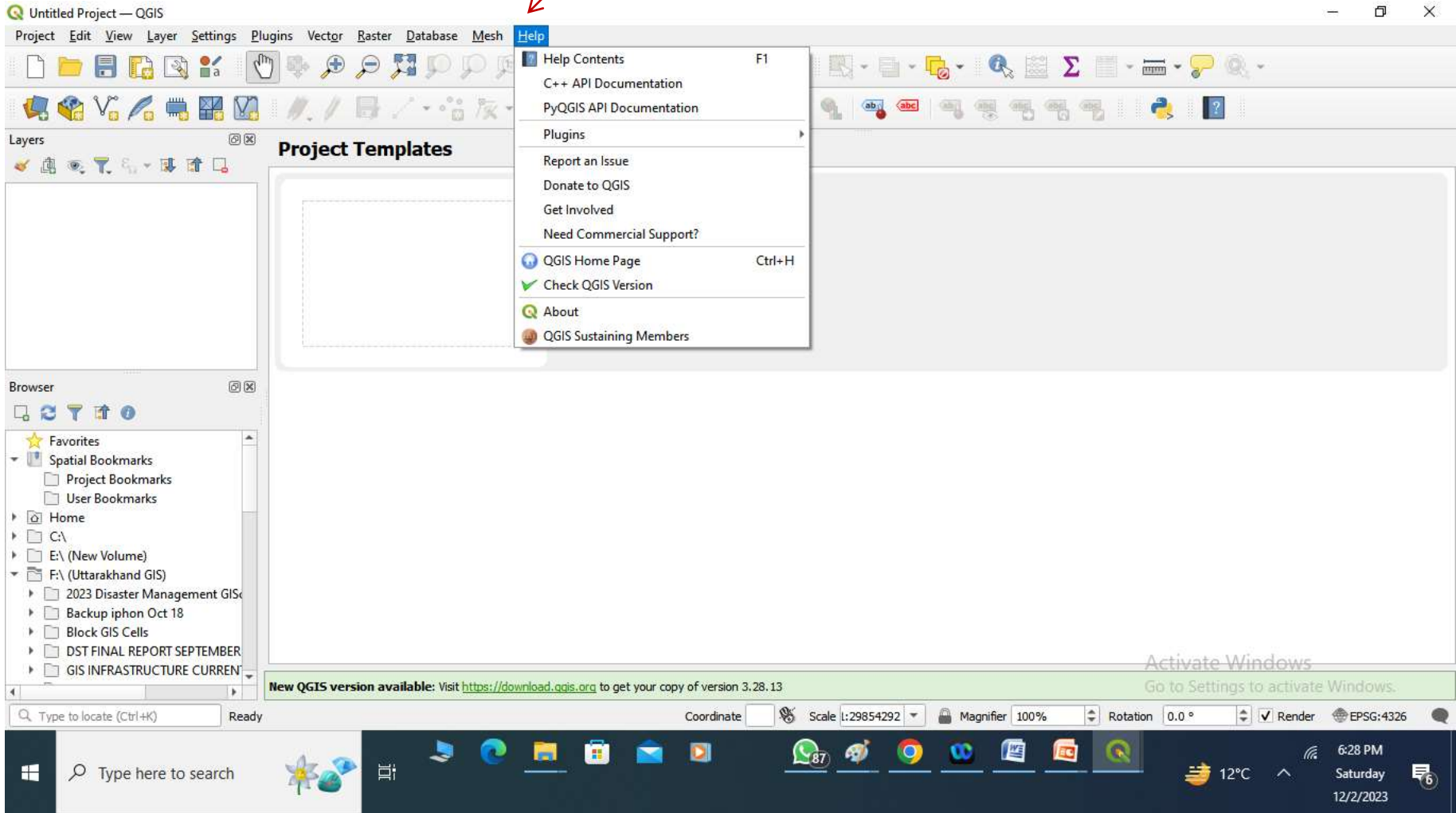
Menu-9 :Database



Menu-10:Mesh



Menu-11:Help



First Day 14th December, 2023

Time: 4.00pm - 5.00 pm

HANDS ON EXERCISE

1. Downloading of Raster Data

2. Downloading of Vector Data

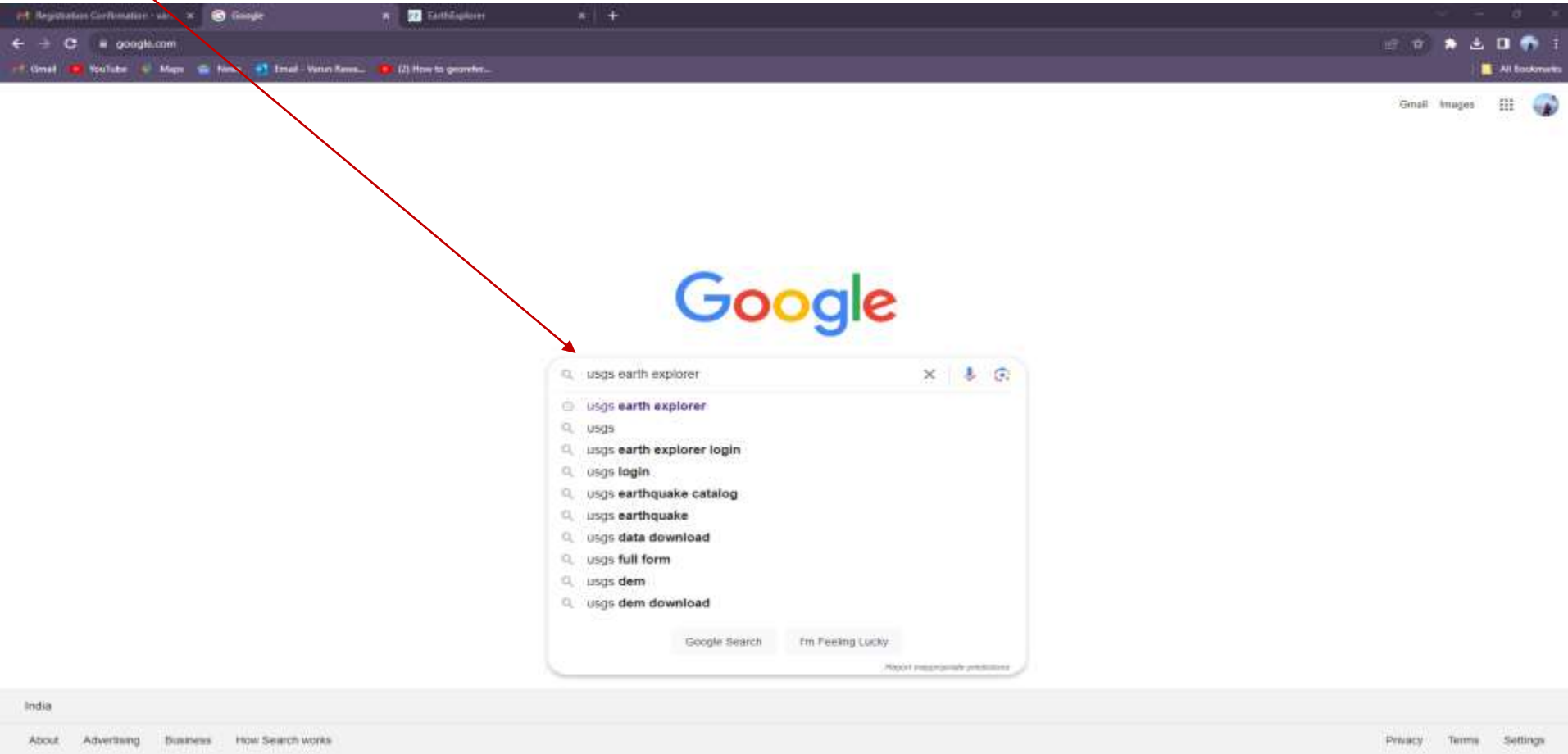
1. Downloading of Raster Data

- Can be done by two methods:
 1. USGS Earth Explorer
 2. Bhuvan Portal

1. USGS Earth Explorer

Open Google and search
USGS Earth Explorer

Type – USGS Earth explorer



Click here

The image shows a Google search page for "usgs earth explorer". A red arrow points from the text "Click here" to the first search result, which is the official USGS Earth Explorer website. The search results include a snippet of the website, a "Sign In" button, and a list of related links such as "USGS EROS registration system" and "U.S. Geological Survey". A "People also ask" section is visible below the main results, and a "More results from usgs.gov" link is also present. On the right side of the page, there is a "Knowledge Panel" for "USGS EarthExplorer" with a description, categories, and related search suggestions.

Registration Confirmation | usgs earth explorer - Google S | EarthExplorer

google.com/search?q=usgs+earth+explorer&sa=sv&res=587921074&asif=AM9Hh0GjlybgjH-HOQanvaSdgTgDFRQ9JA179125369M7B&source=hp&ae=CjHuZdNGe-dG-kP-yHsAv&afq=AC0bgCjgAAAAZw7B0v3301e44TefbeVUfotakS...

Google usgs earth explorer

Images Sign In Registration Videos Free News Earthquakes High resolution API All filters Tools Safesearch

About 48,30,000 results (0.29 seconds)

United States Geological Survey (.gov)
https://earthexplorer.usgs.gov

USGS EarthExplorer ✓

Query and order satellite images, aerial photographs, and cartographic products through the U.S. Geological Survey.

[Sign In](#) ✓

Query and order satellite images, aerial photographs, and ...

[USGS EROS registration system](#) ✓

Registration and login credentials are required to access all ...

[U.S. Geological Survey](#) ✓

The EarthExplorer (EE) user interface is an online search ...

More results from usgs.gov »

People also ask :

Is USGS Earth Explorer free? ▾

What does USGS Earth Explorer do? ▾

How to use USGS Explorer? ▾

What is the meaning of EarthExplorer? ▾

Feedback

United States Geological Survey (.gov)

Feedback

USGS EarthExplorer <

Website

The USGS Earth Explorer data portal is **your one stop shop for obtaining geo-spatial datasets from our extensive collections**.

United States Geological Survey (.gov)
https://www.usgs.gov/educational-resources/earth-ex...

Earth Explorer | U.S. Geological Survey - USGS.gov

Categories: Data, Photography

Owner: United States Geological Survey

People also search for [View 5+ more](#)

Esri NASA OpenStreet GeoNetwork opensource

Feedback



1. Enter Search Criteria

To narrow your search area, type in an address or place name, enter coordinates or click the map to define your search area (for advanced map tools, view the help documentation), and/or choose a date range.

Geocoder: HTMLShapella Upload

Select a Geocoding Method
Feature (GNIS)

Search Limits: The search result limit is 100 records; select a Country, Feature Class, and/or Feature Type to reduce your chances of exceeding this limit.

US Features World Features

Feature Name
(use % as wildcard)

State
All

Feature Type
All

Show Clear

Polygon Circle Predefined Area

Degrees/Minute/Second Decimal

No coordinates selected.

Use Map Add Coordinate Clear Coordinates

Date Range Cloud Cover Result Options

Search from: mm/dd/yyyy to: mm/dd/yyyy



Add Feature Name type – Nainital – Click

The screenshot displays the USGS EarthExplorer interface. The browser address bar shows earthexplorer.usgs.gov. The page header includes the USGS logo and navigation links for Item Basket, Help, Feedback, and Logout. The main content area is titled "Search Criteria Summary (Show)" and "Clear Search Criteria".

1. Enter Search Criteria
To narrow your search area, type in an address or place name, enter coordinates or click the map to define your search area (for advanced map tools. View the help documentation), and/or choose a date range.

Geocoder KML/Shapfiles Upload

Select a Geocoding Method
Feature (GNIS)

Search Limits: The search result limit is 100 records; select a Country, Feature Class, and/or Feature Type to reduce your chances of exceeding this limit.

US Features World Features

Feature Name
Nainital

State
All

Feature Type
All

Show Clear

Polygon Circle Predefined Area

Degree/Minute/Second Decimal

No coordinates selected.

Use Map Add Coordinates Clear Coordinates

Date Range Cloud Cover Result Options

Search from: mm/dd/yyyy to: mm/dd/yyyy

The map on the right shows a topographic view of the Nainital region in India, with labels for Nainital, Nainital, and Nainital. The map includes a coordinate display in the top right corner: 28° 53' 47" N, 81° 48' 17" E.

Click on Use Map (It will show 4 points)

The screenshot shows the Earth Explorer interface. On the left, the 'Search Criteria' panel is active, displaying the '1. Enter Search Criteria' section. A red arrow points from the 'Use Map' button in this section to the map on the right. The map shows a red polygon with four blue pins at its corners, indicating the search area. The search criteria are as follows:

Search Criteria Summary (Show)

1. Enter Search Criteria

To narrow your search area, type in an address or place name, enter coordinates or click the map to define your search area (for advanced map tools, view the help documentation), and/or choose a date range.

Geocoder HTML/Shapefile Upload

Select a Geocoding Method
Feature (GNIS)

Search Limits: The search result limit is 100 records; select a Country, Feature Class, and/or Feature Type to reduce your chances of exceeding this limit.

US Features World Features

Feature Name
Nanital

State
All

Feature Type
All

Show Clear

We were unable to locate the address or place you specified. Please make sure it is a valid location.

Polygon Circle Predefined Area

Degree/Minute/Second Decimal

1. Lat: 29° 42' 29" N, Lon: 080° 30' 13" E	✓	✗
2. Lat: 29° 42' 29" N, Lon: 078° 30' 15" E	✓	✗
3. Lat: 28° 50' 15" N, Lon: 079° 30' 15" E	✓	✗
4. Lat: 28° 50' 15" N, Lon: 080° 30' 13" E	✓	✗

Use Map Add Coordinate Clear Coordinates

Date Range Cloud Cover Result Options

The provided maps are not for purchase or for download; they are to be used as a guide for reference and search purposes only; they are not owned or managed by the USGS.

In Data Sets select – Landsat Collection 2 Level-2

The screenshot displays the EarthExplorer interface. The top navigation bar includes the USGS logo and the text 'EarthExplorer Manage Criteria'. Below this, there are tabs for 'Search Criteria', 'Data Sets', 'Additional Criteria', and 'Results'. The 'Data Sets' tab is active, showing a section titled '2. Select Your Data Set(s)'. This section contains instructions on how to select data sets and a search box. A red arrow points from the title of the slide to the 'Landsat Collection 2 Level-2' option in the search results. The search results list several data sets, including 'Landsat Collection 2 Level-2' and 'Landsat Collection 2 Level-1'. The 'Landsat Collection 2 Level-2' option is selected, and its sub-items are also selected. The main map area shows a satellite image of a region with a red rectangular selection box. The map includes a search criteria summary and a 'Clear Search Criteria' button. The bottom of the page shows the 'Landsat' logo and copyright information.

USGS
science for a changing world

EarthExplorer Manage Criteria

Item Basket (0) Help Feedback Logout (varunrawa02507)

Search Criteria Data Sets Additional Criteria Results

Search Criteria Summary (Show)

Clear Search Criteria

2. Select Your Data Set(s)

Check the boxes for the data set(s) you want to search. When done selecting data set(s), click the Additional Criteria or Results buttons below. Click the plus sign next to the category name to show a list of data sets.

Use Data Set Profiler (opens in new tab)

Data Set Search:

- EO-1
- Global Wetlands
- HCMM
- ISERV
- Land Cover
- Landsat
 - Landsat Collection 2 Level-2 Science Products
 - Landsat C2 U.S. Analysis Ready Data (ARD)
 - Landsat Collection 2 Level-2
 - Landsat 8-9 OLI/TIRS C2 L2
 - Landsat 7 ETM+ C2 L2
 - Landsat 4-5 TM C2 L2
 - Landsat Collection 2 Level-1
 - Landsat C2 Atmospheric Auxiliary Data
 - Landsat Collection 2 DEM
 - Landsat Legacy
 - LCMAP
 - NASA LPDAAC Collections
 - Radar
 - UAS
 - Vegetation Monitoring
 - ISRO Resources

Map showing a satellite image of a region with a red rectangular selection box. The map includes a search criteria summary and a 'Clear Search Criteria' button.

Landsat | Terms | Contact Us — Source: Esri, DeLorme, USDA, USGS, AeroGRID, IGN, IPR, UPR-EDP, and the GIS User Community

Goto Results

The screenshot shows the USGS EarthExplorer interface. The browser address bar displays "earthexplorer.usgs.gov". The USGS logo is visible at the top left. The main navigation bar includes "EarthExplorer" and "Manage Criteria". The "Results" tab is selected, showing "4. Search Results". A red arrow points from the "Results" tab to the search results section.

Search Criteria Summary (Show) Clear Search Criteria

4. Search Results
If you selected more than one data set to search, use the dropdown to see the search results for each specific data set.

Show Result Controls

Data Set Click here to export your results

Landsat 8-9 OLI/TIRS C2 L2

« First Previous 1 of 172 Next Last »
Displaying 1 - 10 of 1,718

- ID: LC08_L2SP_144039_20231127_20231128_02_T1
Date Acquired: 2023/11/27
Path: 144
Row: 039
- ID: LC08_L2SP_144040_20231127_20231128_02_T1
Date Acquired: 2023/11/27
Path: 144
Row: 040
- ID: LC08_L2SP_145039_20231126_20231128_02_T1
Date Acquired: 2023/11/26
Path: 145
Row: 039
- ID: LC08_L2SP_145040_20231126_20231128_02_T1
Date Acquired: 2023/11/26

[View Item Basket](#) [Submit Standing Request](#)

The main map area shows a satellite view of a region in India, with a red rectangular box highlighting a specific area. The map includes labels for various locations and geographical features. The bottom of the map area contains the text: "Leaflet | Data © Esri — Source: Esri, DeLorme, USDA, USGS, AEX, GeoEye, Geometric, AeroGRID, IGN, IGP, UPR-ESR, and the GIS User Community ESRI".

Select Tile

The screenshot shows the EarthExplorer interface with the following elements:

- Search Criteria Summary (Show):** Located at the top of the search results panel.
- Search Results:** A list of four data sets with the following details:
 - Item 1:** ID: LC09_L2SP_145040_20231126_20231128_02_T1; Date Acquired: 2023/11/26; Path: 145; Row: 040. Includes a 'Select Tile' icon (a small square with a red border).
 - Item 2:** ID: LC09_L2SP_146038_20231125_20231128_02_T1; Date Acquired: 2023/11/25; Path: 145; Row: 039.
 - Item 3:** ID: LC09_L2SP_145040_20231125_20231128_02_T1; Date Acquired: 2023/11/25; Path: 145; Row: 040.
 - Item 4:** ID: LC09_L2SP_144038_20231119_20231122_02_T1; Date Acquired: 2023/11/19; Path: 144; Row: 039.
- Map:** A satellite-style map of a region in India, with a purple rectangular selection box overlaid on it. The map includes a coordinate display (97° 14' 00" N, 80° 40' 21" E) and a 'Clear Search Criteria' button.
- USGS Logo:** 'USGS science for a changing world' is visible in the top left corner.
- Navigation:** A 'View Item Basket' button and a 'Submit Standing Request' button are located at the bottom of the search results panel.

Click on Download option

The screenshot displays the USGS EarthExplorer interface. The top navigation bar includes the USGS logo and the text "science for a changing world". Below this, the "EarthExplorer" header is visible, along with a "Manage Criteria" link. The main content area is divided into a left sidebar and a right map area. The sidebar, titled "4. Search Results", lists search criteria and provides a "Download Options" button for the first result. The map area shows a satellite view of a region in northern India, with a purple polygon highlighting a specific area of interest. A red arrow points from the "Download Options" button in the sidebar to the map area.

Search Criteria Summary (Show) Clear Search Criteria

4. Search Results
If you selected more than one data set to search, use the dropdown to see the search results for each specific data set.

Show Result Controls

Data Set Click here to export your results

Landsat 8-9 OLI/TIRS C2 L2

	Download Options
ID: LC08_L2SP_145046_20231126_20231126_02_T1 Date Acquired: 20231126 Path: 145 Row: 040	
ID: LC08_L2SP_144039_20231125_20231128_02_T1 Date Acquired: 20231125	
ID: LC08_L2SP_145046_20231125_20231128_02_T1 Date Acquired: 20231125	
ID: LC08_L2SP_144039_20231119_20231122_02_T1 Date Acquired: 20231119	

[View Item Basket](#) [Submit Standing Request](#)

Map Area: **Search Criteria Summary (Show)** Clear Search Criteria
Coordinates: 28° 50' 52" N, 076° 36' 12" E

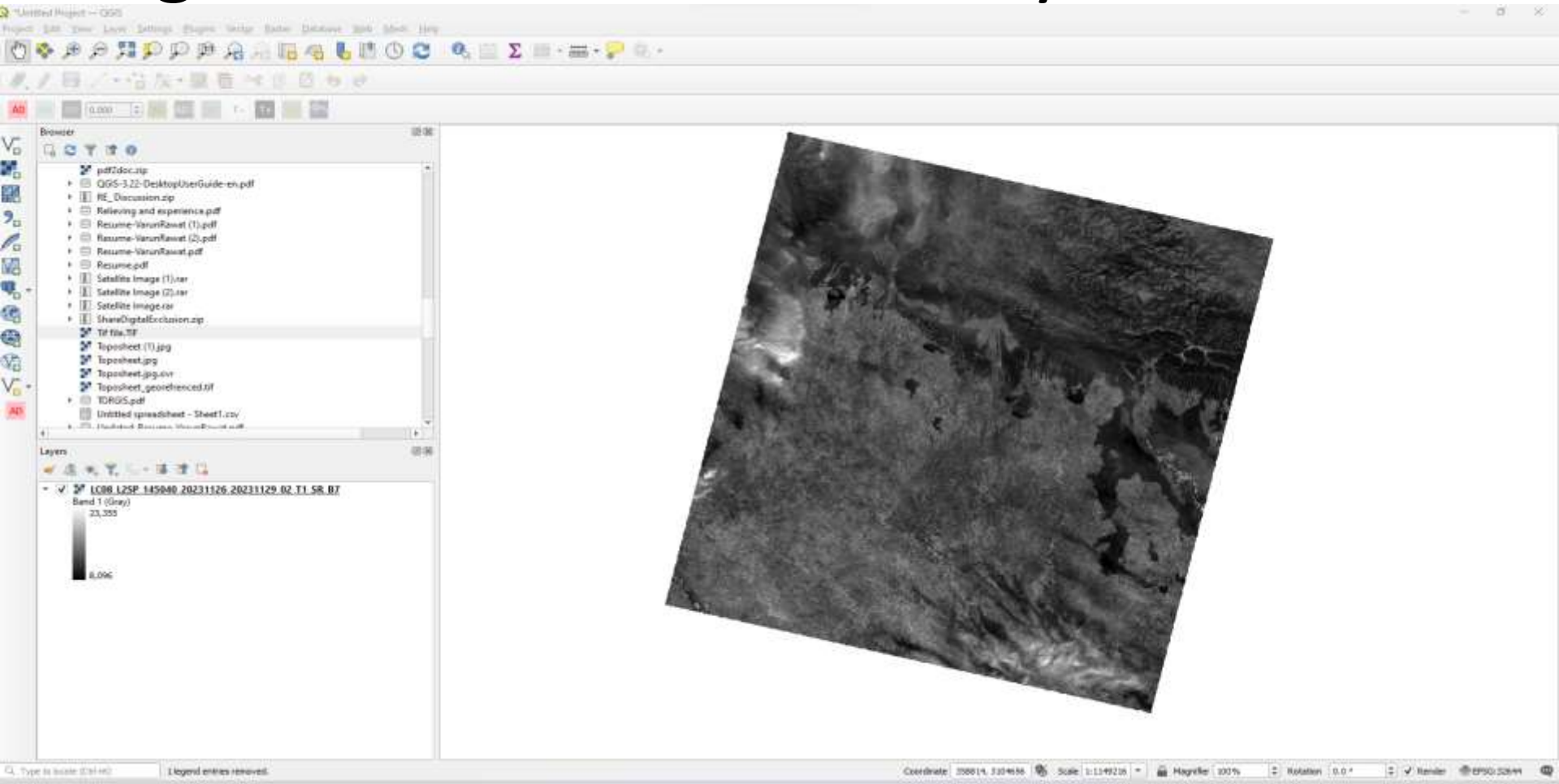
Click on the provided button

The screenshot shows the EarthExplorer.usgs.gov interface. A modal dialog box titled "Product Download Options for LC08_L2SP_145040_20231126_20231129_02_T1" is open. The dialog has a close button (X) in the top right corner. Below the title, it says "Landsat Collection 2 Level-2 Product Bundle". There is a button with a download icon and the text "109.26 MB" next to "Landsat Collection 2 Level-2 Product Bundle". Below this, a light blue bar states "The following items are available for individual download". Underneath is an "(Item Name Filter)" input field. A list of items follows, each with a trash icon, a download icon, and its size:

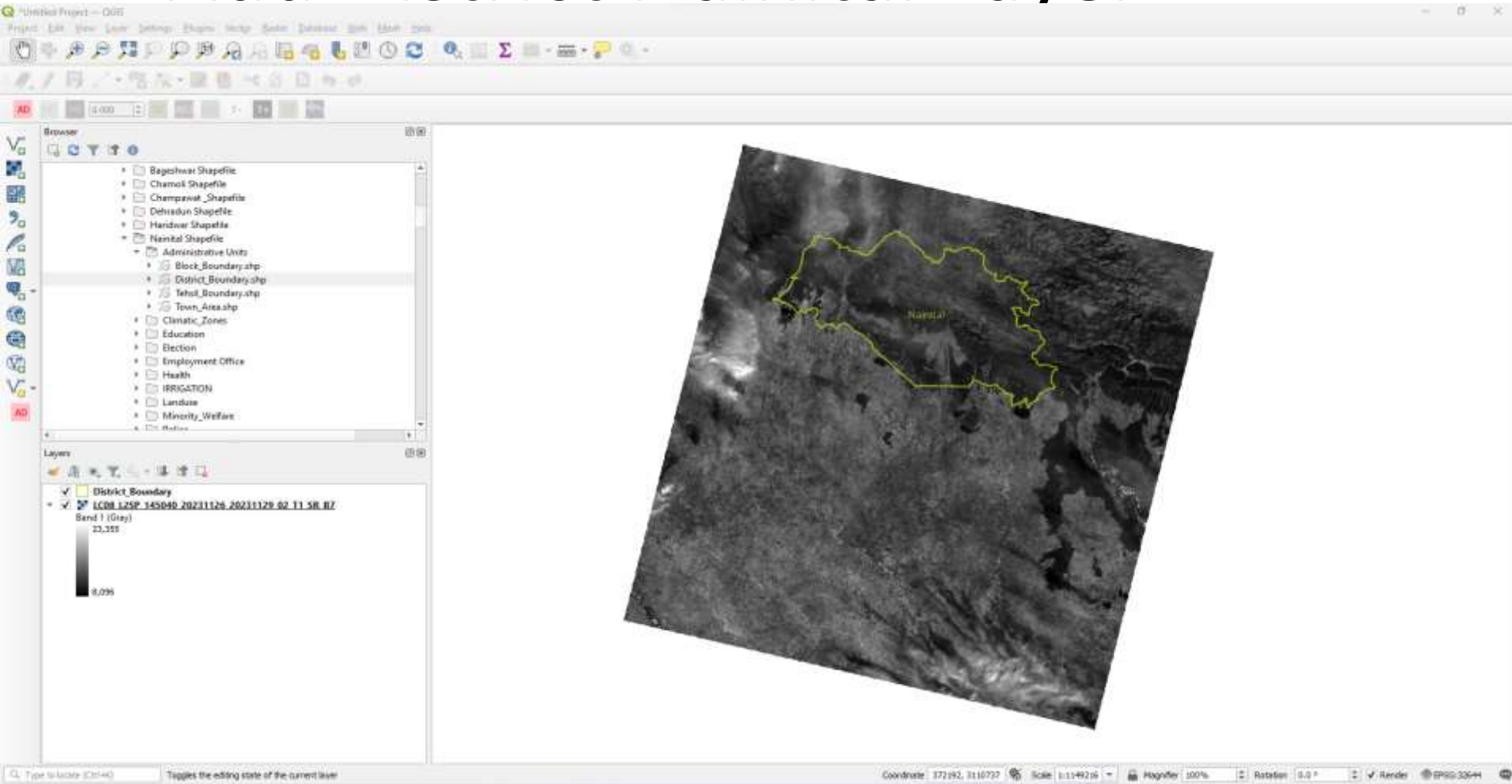
- LC08_L2SP_145040_20231126_20231129_02_T1_MTL.txt (15.05 KB) - Landsat Collection 2 Level-2 Band File - MTL.txt
- LC08_L2SP_145040_20231126_20231129_02_T1_MTL.xml (27.18 KB) - Landsat Collection 2 Level-2 Band File - MTL.xml
- LC08_L2SP_145040_20231126_20231129_02_T1_QA_PIXEL.TIF (2.47 MB) - Landsat Collection 2 Level-2 Band File - QA_PIXEL.TIF
- LC08_L2SP_145040_20231126_20231129_02_T1_QA_RADSAT.TIF (225.54 KB) - Landsat Collection 2 Level-2 Band File - QA_RADSAT.TIF
- LC08_L2SP_145040_20231126_20231129_02_T1_SR_B1.TIF (83.62 MB) - Landsat Collection 2 Level-2 Band File - SR_B1.TIF
- LC08_L2SP_145040_20231126_20231129_02_T1_SR_B2.TIF

At the bottom right of the dialog are "Add All to Bulk" and "Close" buttons. A red arrow from the text above points to the download button for the bundle.

Image downloaded and ready to use.



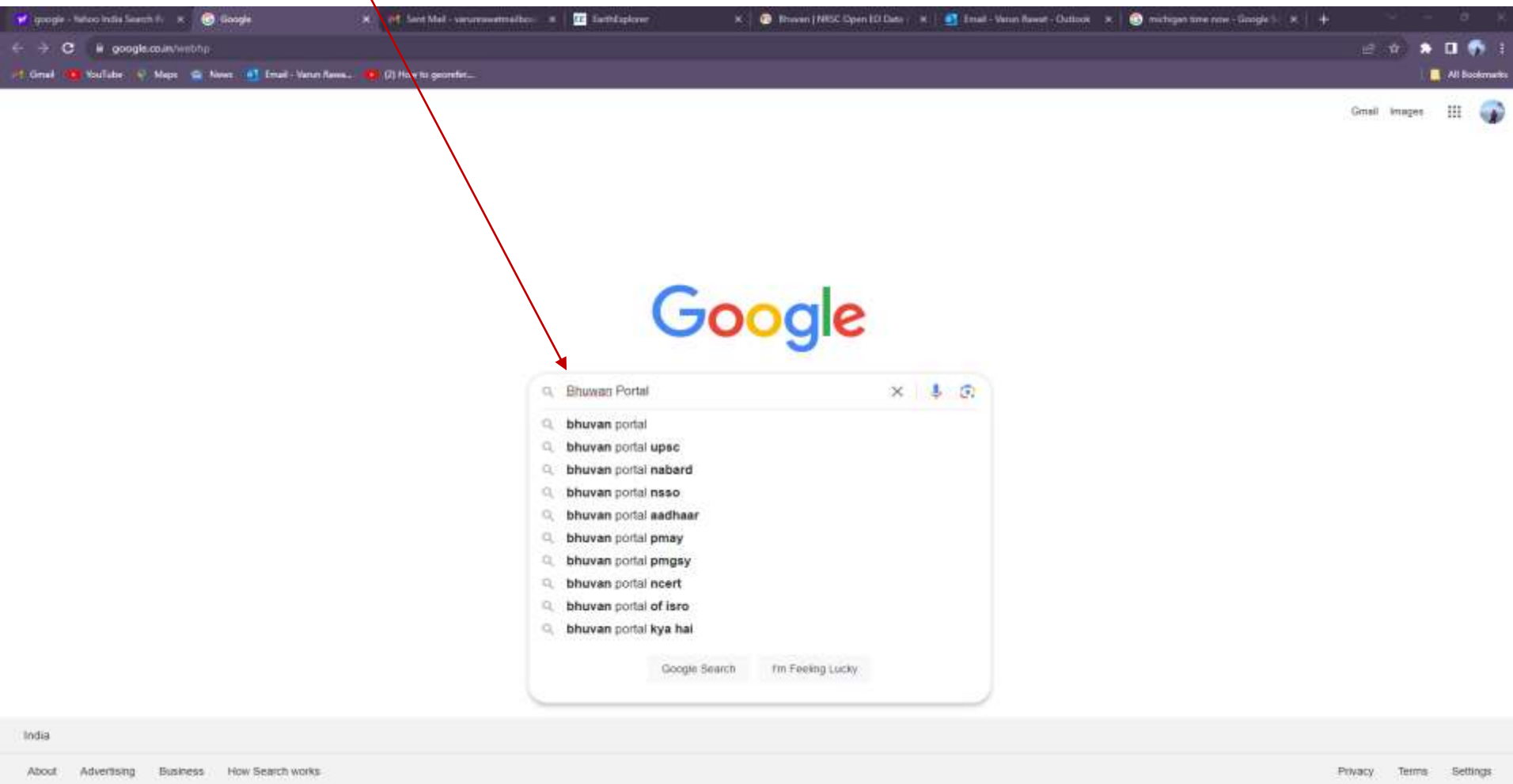
Add District Nainital Layer



2. Bhuvan Portal

Open Google and search
Bhuwan Portal

Search Bhuwan Portal



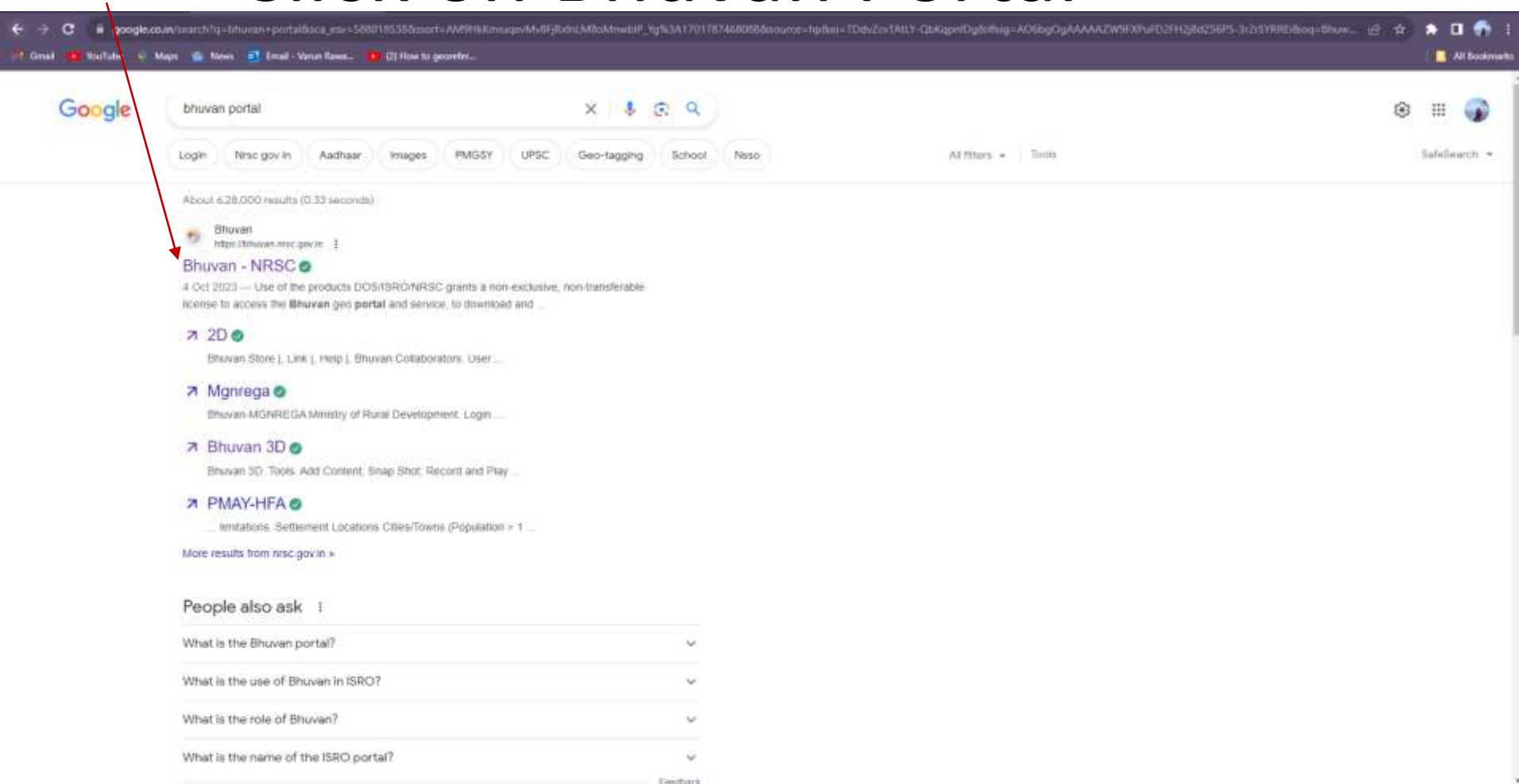
The image shows a screenshot of a Google search page. The search bar contains the text "Bhuwan Portal". A dropdown menu is visible below the search bar, listing several search suggestions:

- Bhuwan Portal
- bhuwan portal
- bhuwan portal upac
- bhuwan portal nabard
- bhuwan portal nso
- bhuwan portal aadhaar
- bhuwan portal pmay
- bhuwan portal pmgsy
- bhuwan portal ncert
- bhuwan portal of isro
- bhuwan portal kya hai

At the bottom of the dropdown menu, there are two buttons: "Google Search" and "I'm Feeling Lucky".

The page also shows the Google logo, the URL "google.co.in/webhp", and various navigation links at the bottom such as "India", "About", "Advertising", "Business", "How Search works", "Privacy", "Terms", and "Settings".

Click on Bhuvan Portal



The image shows a Google search interface. The search bar contains the text "bhuvan portal". Below the search bar, there are several filters: Login, Nisc.gov.in, Aadhaar, Images, PMGSY, UPSC, Geo-tagging, School, and Niso. The search results show "About 6,28,000 results (0.33 seconds)". The first result is "Bhuvan - NRSC" with a green checkmark. The URL is "https://bhuvan.nrsc.gov.in/". The description says "4 Oct 2023 — Use of the products DOI/ISRO/NRSC grants a non-exclusive, non-transferable license to access the Bhuvan geo portal and service, to download and ...". Below the main result, there are several related links: "2D", "Mgnrega", "Bhuvan 3D", and "PMAY-HFA". At the bottom, there is a section "People also ask" with four questions: "What is the Bhuvan portal?", "What is the use of Bhuvan in ISRO?", "What is the role of Bhuvan?", and "What is the name of the ISRO portal?".

Google

bhuvan portal

Login Nisc.gov.in Aadhaar Images PMGSY UPSC Geo-tagging School Niso

All filters Tools

Safesearch

About 6,28,000 results (0.33 seconds)

Bhuvan
https://bhuvan.nrsc.gov.in/

Bhuvan - NRSC

4 Oct 2023 — Use of the products DOI/ISRO/NRSC grants a non-exclusive, non-transferable license to access the Bhuvan geo portal and service, to download and ...

2D

Bhuvan Store | Link | Help | Bhuvan Collaborators, User ...

Mgnrega

Bhuvan-MGNREGA/Ministry of Rural Development. Login ...

Bhuvan 3D

Bhuvan 3D Tools: Add Content, Snap Shot, Record and Play ...

PMAY-HFA

... limitations, Settlement Locations Cities/Towns (Population > 1 ...

More results from nisc.gov.in >

People also ask

What is the Bhuvan portal?

What is the use of Bhuvan in ISRO?

What is the role of Bhuvan?

What is the name of the ISRO portal?

Feedback



Bhuvan

Indian Geo Platform of ISRO

Visualisation | OGC Compliant Thematic, Disaster, Weather, Ocean Services | Asset Mapping and Inventory Creations
Planning and Development | Decision Making | Resources Management | Location Based Services



Latest Updates: [Madhavi and Sabari confluence \(09-07-2023 to 06-08-2023\)](#) **New** | [ISRO Geosphere-Biosphere Programme \(IGBP\) Above Ground Biomass\(AGB\) Data](#) **New**

Visualisation & Free Download

Collaborative applications - Platform to share your data and create governance applications

Bhuvan 2D	Bhuvan 3D	Bhuvan Lite	Open Data Archive	Climate & Environment	Bhoonidhi VISTA
------------------	------------------	--------------------	--------------------------	----------------------------------	------------------------

Downloads

Application Sectors

Collaborative applications - Platform to share your data and create governance applications

Agriculture View the agriculture related	Water View the water applications	Forestry View the forestry applications	E - Governance View the e-governance
--	---	---	--

Click on Open Data Archive

The screenshot shows the Bhuvan Indian Geo Platform of ISRO website. The page features a blue header with navigation links: Home, NRSC, Application Sectors, Bhuvan Collaborators, Search, Bhuvan Store, Contact Us, Newsletter, and WIKI. The main banner includes the Bhuvan logo, the text "Bhuvan Indian Geo Platform of ISRO", and a list of services: Visualisation | OGC Complaint Thematic, Disaster, Weather, Ocean Services | Asset Mapping and Inventory Creations Planning and Development | Decision Making | Resources Management | Location Based Services. Below the banner, there is a "Latest Updates" section with two items: "Sardar Sarovar and Sabari confluence (09-07-2023 to 06-08-2023)" and "ISRO Geosphere-Biosphere Programme (IGBP) Above Ground Biomass(AGB) Data". The "Visualisation & Free Download" section is titled "Collaborative applications - Platform to share your data and create governance applications" and contains six buttons: Bhuvan 2D, Bhuvan 3D, Bhuvan Lite, Open Data Archive, Climate & Environment, and Bhoonidhi VISTA. A red arrow points from the text "Click on Open Data Archive" to the "Open Data Archive" button. Below this section is the "Application Sectors" section, titled "Collaborative applications - Platform to share your data and create governance applications", which includes four categories: Agriculture, Water, Forestry, and E-Governance.

https://bhuvan.nrsc.gov.in/home/index.php

Import favorites | Gmail | YouTube | Maps | News | Dell | (39) How to Geogr...

Other favorites

Bhuvan
Indian Geo-Platform of ISRO

G20
National Remote Sensing Centre

Home | NRSC | Application Sectors | Bhuvan Collaborators | Search | Bhuvan Store | Contact Us | Newsletter | WIKI

Bhuvan
Indian Geo Platform of ISRO

Visualisation | OGC Complaint Thematic, Disaster, Weather, Ocean Services | Asset Mapping and Inventory Creations
Planning and Development | Decision Making | Resources Management | Location Based Services

Latest Updates | Sardar Sarovar and Sabari confluence (09-07-2023 to 06-08-2023) | ISRO Geosphere-Biosphere Programme (IGBP) Above Ground Biomass(AGB) Data

Visualisation & Free Download
Collaborative applications - Platform to share your data and create governance applications

Bhuvan 2D | Bhuvan 3D | Bhuvan Lite | **Open Data Archive** | Climate & Environment | Bhoonidhi VISTA

Application Sectors
Collaborative applications - Platform to share your data and create governance applications

Agriculture | Water | Forestry | E - Governance

Under Select Subcategory : select

The screenshot displays the Bhuvan Indian Geo-Platform of ISRO interface. The main content area is divided into two panels. The left panel contains the following elements:

- NRSC/ISRO Open data and product archive facilitates the user to select, browse and download data from this portal.**
- Select Category :** Radio buttons for Satellite/Sensor, Theme/Products, and Program/Projects.
- Select SubCategory :** A dropdown menu with the following options:
 - Select under Satellite/Sensor
 - Select under Satellite/Sensor
 - Oceansat-2: OCM
 - Resourcesat-1/Resourcessat-2: LISS-III
 - Resourcesat-1/Resourcessat-2: AWiFS
 - Cartosat-1
 - SCATSAT-1: Scatterometer
 - IMS-1: Hyperspectral Imager(HySI)
- Archives and Ordering Satellite Data**
For other Archives and Online Satellite data ordering... [Please Click Here](#)
- Super Site for Remote Sensing Analysis**
Space based inputs for download from different sources... [Read More](#)

The right panel features a map of India with state boundaries and names. A red arrow points from the text 'Under Select Subcategory : select' to the 'Resourcesat-1/Resourcessat-2: LISS-III' option in the dropdown menu. The map includes a scale bar (0, 20, 40 Kilometers) and a north arrow.

Search region of interest- select

The screenshot shows the bhuvan Indian Geo-Platform of ISRO interface. The main search bar contains the text "Nainital". Below the search bar, there are options to select a category (Satellite/Sensor, Theme/Product, Program/Projects) and a subcategory (Resourcecat-1/Resourcecat-2/LISS-III). A "Select Area" section is visible, with tabs for Bounding Box, Mapsheet, Tiles, and Interactive drawing. A "Search Results" window is open, displaying a list of locations. A red arrow points from the search bar to the search results window.

Search Results

Select a location

We couldn't find exact match for your search. Did you mean:

- Nainital Bank,Bulandshahr District, Uttar Pradesh
- Nainital Apartment,Ludhiana District, Uttar Pradesh
- Nainital Bank,Banwaly District, Uttar Pradesh
- Nainital Bank,Champurawat District, Uttarakhand
- Nainital Bank,Bogeshwar District, Uttarakhand
- Nainital Bank,Bogeshwar District, Uttarakhand
- Nainital Bank,Central District, Delhi
- Nainital Bank,Bijnor District, Uttar Pradesh
- Nainital Bank,Almora District, Uttarakhand
- Nainital Bank,Almora District, Uttarakhand
- Nainital Adventure Park & Resort,Nainital District, Uttarakhand
- Nainital Kutchery So Postoffice,Naini Tal, Uttarakhand
- Nainital Bank,Bijnor District, Uttar Pradesh
- Nainital Head Office Postoffice,Naini Tal, Uttarakhand
- Nainital Bank,Banwaly District, Uttar Pradesh
- Nainital Apartment,Ludhiana District, Uttar Pradesh
- Nainital Bank,Bulandshahr District, Uttar Pradesh
- Nainital Bank,Dehradun District, Uttarakhand
- Nainital Bank,Dehradun District, Uttarakhand
- Nainital Naini Tal, Uttarakhand
- Nainital Bank,Agra District, Uttar Pradesh
- Nainital,Rangareddy District, Telangana
- Nainital Bank,Central District, Delhi

It will show Nainital

The screenshot displays the Bhuvan Indian Geo-Platform of ISRO interface. The main map area shows a satellite view of a region in the Himalayas, with a yellow bounding box highlighting a specific area. A red arrow points from the text 'It will show Nainital' to this highlighted area. The interface includes a search bar at the top, navigation links, and a sidebar with various options and technical documents.

Indian Geo-Platform of ISRO
National Remote Sensing Centre

Open Data Archive: Nainital Nain Tal, Uttarakhand

FAQ Policy Disclaimer Feedback

NRSC/ISRO Open data and product archive facilitates the user to select, browse and download data from this portal

Select Category: Satellite/Sensor Theme/Products Program/Projects

Select SubCategory: Resourceat-1/Resourceat-2/LISS-III

This data is received from Linear Imaging and Self Scanning Sensor (LISS) which operates in three spectral bands in VNIR and one band in SWIR with 24 metre spatial resolution and a swath of 141 km.

Technical Documents:

- 1. Resourceat-1 LISS-III Brochure
- 2. Resourceat-1 LISS-III Data Users Handbook
- 3. LISS-III Orthorectification Process

Select Area

Bounding Box Mapsheet Tiles Interactive drawing

- Click start button for selecting Area
- Single click or drag a box to select Area
- Use the Shift/Ctrl key to add Area to the selection
- Use the Ctrl key to toggle a feature's selected status
- Use **Esc** to get the Tile Ids on mouseover

Start Clear

Next >

78.43, 27.18

Inside Tile select Start and select Tile

bhuvan
Indian Geo-Platform of ISRO

Welcome User | Login | National Remote Sensing Centre

Open Data Archive | Search: Resourceat-1, L1SS-II

ESQ Policy | Disclaimer | Feedback

NRSC/ISRO Open data and product archive facilitates the user to select, browse and download data from this portal

Select Category : Satellite/Sensor Theme/Products Program/Projects

Select SubCategory : Resourceat-1 | Resourceat-2 | L1SS-II

This data is received from Linear Imaging and Self Scanning Sensor (LISS) which operates in three spectral bands in VNIR and one band in SWIR with 24 metre spatial resolution and a swath of 141 km.

Technical Documents:
1. Resourceat-1 LISS-II Brochure
2. Resourceat-1 LISS-II Data User's Handbook
3. LISS-II Data Rectification Process

Select Area

Bounding Box | Mapsheet | Tiles | Interactive drawing

- Click start button for selecting tiles
- Single click or drag a box to select tiles
- Use the Shift/Ctrl key to add tiles for the selection
- Use the Ctrl key to toggle a feature's selected status
- Use Esc to get the Tile Ids on mouseover

Stop Clear

Next >

78.41, 29.34

Click on Next

The screenshot displays the Bhuvan web application interface. The top navigation bar includes the Bhuvan logo, the text "Indian Geo-Platform of ISRO", and the National Remote Sensing Centre logo. The main content area is divided into a left sidebar and a right map panel. The sidebar contains several sections: "Select Category" with radio buttons for "Satellite/Sensor", "Thematic/Products", and "Programs/Projects"; "Select SubCategory" with a dropdown menu set to "Resourcesat-1/Resourcesat-2/LISS-III"; "Technical Documents" with links to brochures and user handbooks; and "Select Area" with tabs for "Bounding Box", "Mapsheet", "Tiles", and "Interactive drawing". The "Interactive drawing" section includes a list of instructions for selecting tiles and a "Next >" button at the bottom. The map panel shows a satellite view of India with a yellow grid overlay. A red arrow points from the "Click on Next" text to the "Next >" button in the sidebar.

https://bhuvan-app3.nrc.gov.in/data/download/index.php#

Import favorites | Gmail | YouTube | Maps | News | Dell | Off to Geoc... | Other favorites

bhuvan
Indian Geo-Platform of ISRO

Open Data Archive |

Welcome User | Login | |

National Remote Sensing Centre

[Back](#) | [Download List](#) | [Tools](#) | [Systems](#) | [Bhuvan Home](#) | [Help](#) | [Home](#)

[FAQ](#) | [Policy](#) | [Disclaimer](#) | [Feedback](#)

NRSC/ISRO Open data and product archive facilitates the user to select, browse and download data from this portal

Select Category : Satellite/Sensor Thematic/Products Programs/Projects

Select SubCategory : Resourcesat-1/Resourcesat-2/LISS-III

This data is received from Linear Imaging and Self Scanning Sensor (LISS) which operates in three spectral bands in VHR and one band in SWHR with 24 metre spatial resolution and a swath of 141 km.

Technical Documents:

1 Resourcesat-1 LISS-III Brochure

2 Resourcesat-1 LISS-III Data Users Handbook

3 LISS-III Orbital-Modification Process

Select Area

- Click start button for selecting tiles
- Single click or drag a box to select tiles
- Use the Shift/Ctrl keys to add tiles to the selection
- Use the Ctrl key to toggle a feature's selected status
- Use to get the Tile Ids on mouseover

77.37, 29.07

Click on Download

Welcome User Logout
National Remote Sensing Centre

Please download this technical document to know more about LIS-III
You can download only 20 tiles in a day and save others as backlog for future download

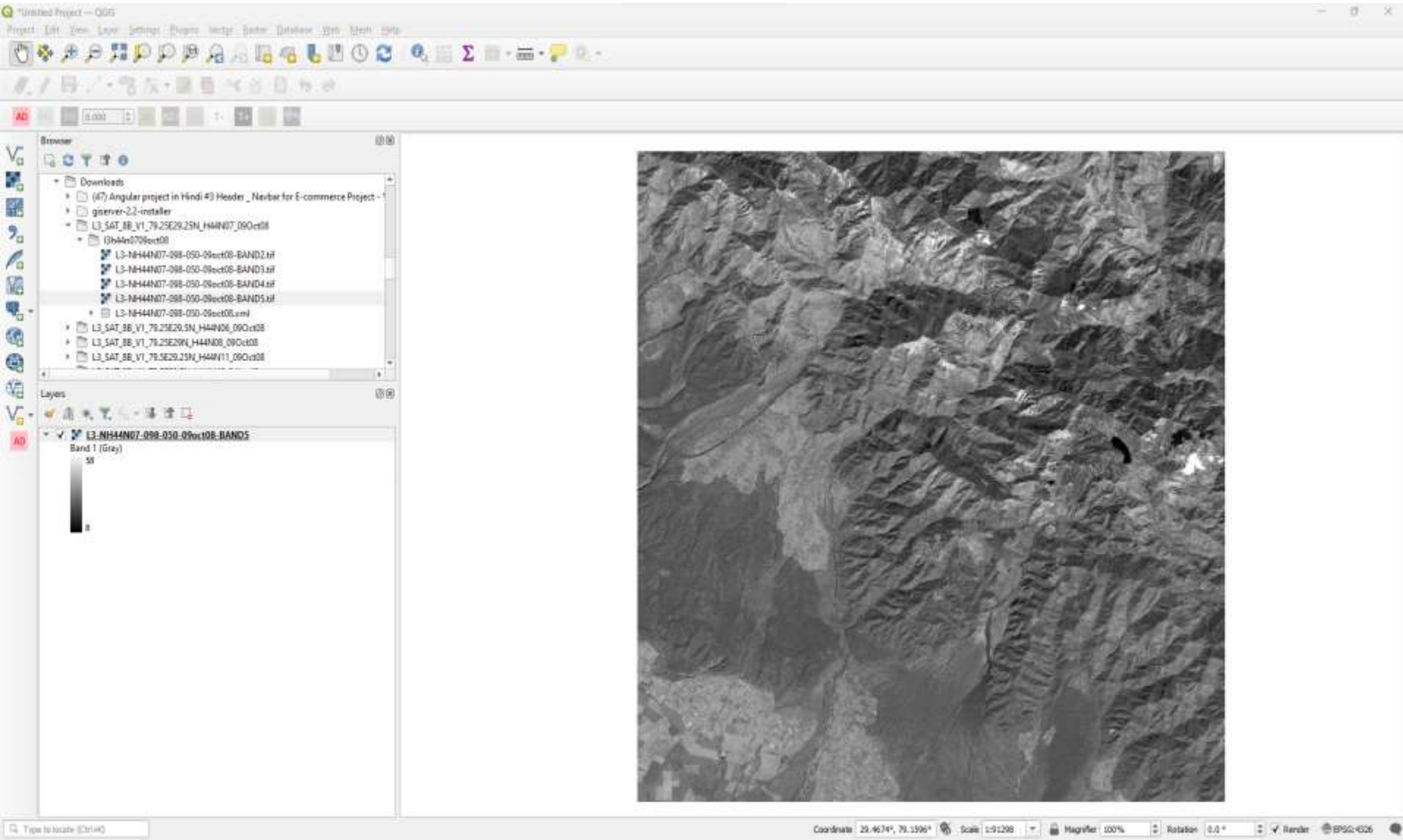
Total Tiles available for this selection = 20

Selection for backlog	Toposheet No.	Bounding Box	Date of Pass	Metadata	Thumbnail	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	09Oct08	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	23Nov11	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	03Feb12	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	04Jan13	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	05Apr14	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	07Nov14	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	30Dec13	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	24Apr15	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	09Oct15	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	13Jan16	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	12May16	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	27Oct16	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	24Feb17	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	07May17	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	03Nov17	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	07Feb18	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	14May18	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	05Oct18	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	02Feb19	Metadata	View	Download
<input type="checkbox"/>	H44N07	78.25E29.25N-78.5E29.5N	06May19	Metadata	View	Download

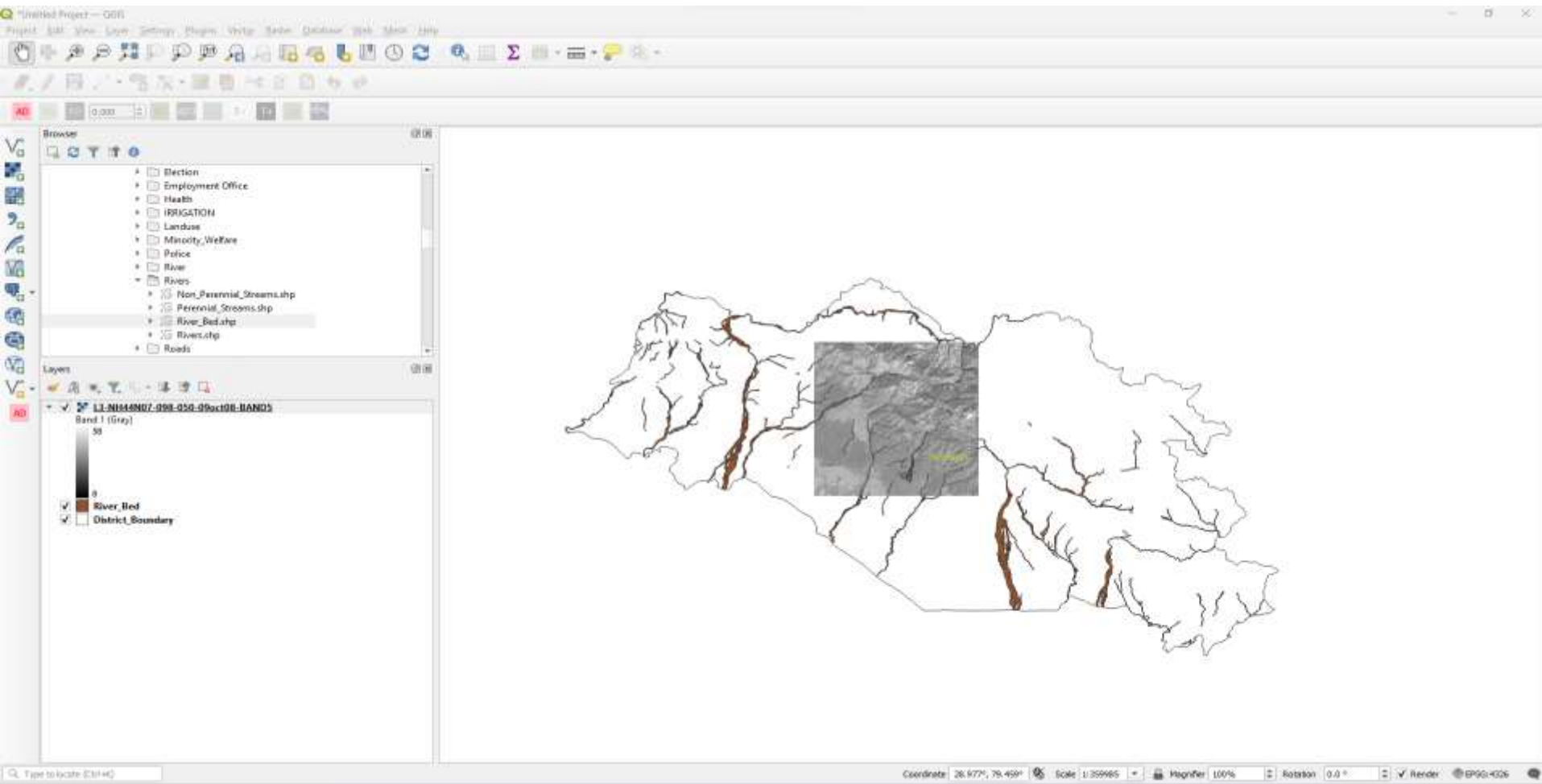
Save to Backlog New Selection

79.22, 27.13

Tile is downloaded



District Boundary- Nainital with Tile

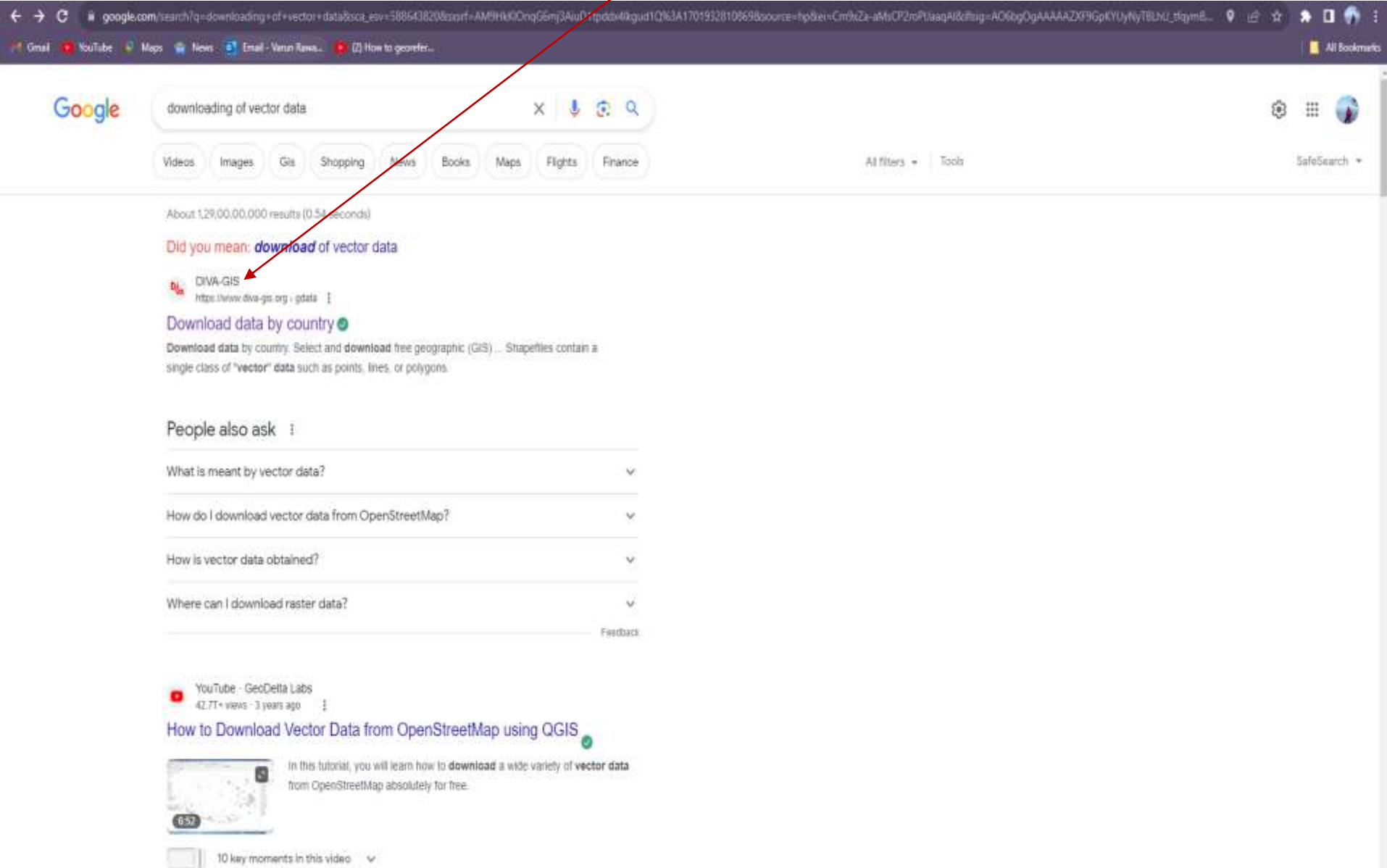


2. Downloading of Vector Data

1. DIVA-GIS

Open Google and Search-
Download Vector Data

Click on DIVA-GIS



The image shows a Google search interface. The search bar contains the text "downloading of vector data". Below the search bar, there are tabs for "Videos", "Images", "Gis", "Shopping", "News", "Books", "Maps", "Flights", and "Finance". The search results show "About 1,29,00,00,000 results (0.54 seconds)". A red arrow points from the text "Click on DIVA-GIS" at the top of the page to the "DIVA-GIS" search result. The "DIVA-GIS" result includes a small logo, the text "DIVA-GIS", the URL "https://www.diva-gis.org/gdata", and a snippet: "Download data by country". Below this, there is a section titled "People also ask" with four questions: "What is meant by vector data?", "How do I download vector data from OpenStreetMap?", "How is vector data obtained?", and "Where can I download raster data?". At the bottom, there is a video result from "YouTube - GeoDelta Labs" with 42.71+ views, 3 years ago, titled "How to Download Vector Data from OpenStreetMap using QGIS". The video snippet says: "In this tutorial, you will learn how to download a wide variety of vector data from OpenStreetMap absolutely for free." The video thumbnail shows a map and has a duration of 6:52. Below the video, there is a "10 key moments in this video" section.

Google

downloading of vector data


Videos Images Gis Shopping News Books Maps Flights Finance

All filters Tools

SafeSearch

About 1,29,00,00,000 results (0.54 seconds)

Did you mean: **download** of vector data

 DIVA-GIS
https://www.diva-gis.org/gdata

Download data by country

Download data by country. Select and download free geographic (GIS) ... Shapetiles contain a single class of "vector" data such as points, lines, or polygons.

People also ask

What is meant by vector data?

How do I download vector data from OpenStreetMap?

How is vector data obtained?

Where can I download raster data?

Feedback

YouTube - GeoDelta Labs
42.71+ views · 3 years ago

How to Download Vector Data from OpenStreetMap using QGIS

In this tutorial, you will learn how to **download** a wide variety of **vector data** from OpenStreetMap absolutely for free.

6:52

10 key moments in this video

DIVA-GIS Portal



DIVA-GIS

free, simple & effective

Download program

Documentation

Free Spatial Data

Home

Download data by country

Select and download free geographic (GIS) data for any country in the world

Country

Afghanistan

Subject

Administrative areas

OK

- [Frequently Asked Questions](#)
- [Development](#)
- [Links](#)
- [About us](#)

Sources

Subject	Description	Source	Format	Resolution
Administrative areas (boundaries)	Country outlines and administrative subdivisions for all countries. The level of subdivision varies between countries	GADM, version 1.0	Vector (area)	-
Inland water	Rivers, canals, and lakes. Separate files for line and area features	Digital Chart of the World	Vector (line and area)	-
Roads	Roads	Digital Chart of the World	Vector (line)	-
Railroads	Railroads	Digital Chart of the World	Vector (line)	-
Elevation	SRTM30 dataset. CGIAR-SRTM data resampled to 30 seconds	CGIAR SRTM (30 seconds resolution)	Grid	30 seconds

Select Country and click OK

Home

Download data by country

Select and download free geographic (GIS) data for any country in the world

Country
India

Subject
Administrative areas

OK

Sources

Subject	Description	Source	Format	Resolution
Administrative areas (boundaries)	Country outlines and administrative subdivisions for all countries. The level of subdivision varies between countries	GADM, version 1.0	Vector (area)	-
Inland water	Rivers, canals, and lakes. Separate files for line and area features	Digital Chart of the World	Vector (line and area)	-
Roads	Roads	Digital Chart of the World	Vector (line)	-
Railroads	Railroads	Digital Chart of the World	Vector (line)	-
Elevation	SRTM30 dataset. CGIAR-SRTM data aggregated to 30 seconds	CGIAR SRTM (3 seconds resolution)	Grid	30 seconds

- [Frequently Asked Questions](#)
- [Development](#)
- [Links](#)
- [About us](#)

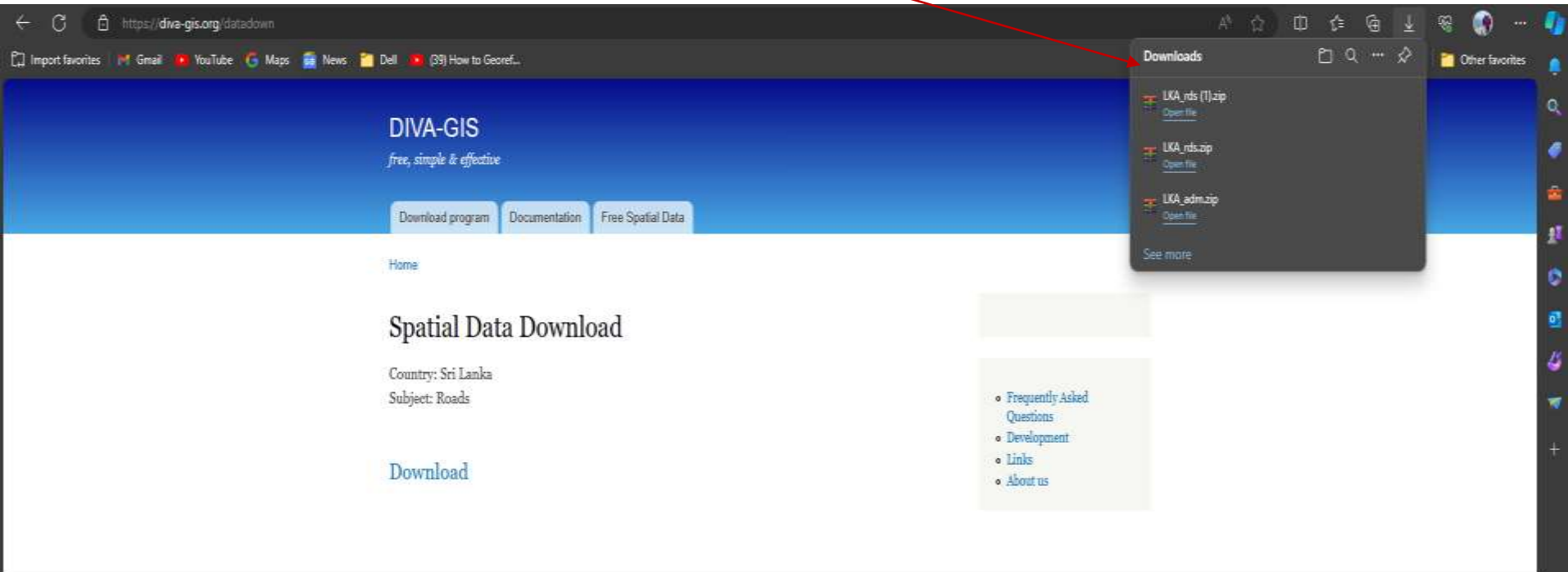
Click on Download

The screenshot shows a web browser window with the URL <https://diva-gis.org/datasdown>. The page features a blue header with the text "DIVA-GIS" and the tagline "free, simple & effective". Below the header, there are three buttons: "Download program", "Documentation", and "Free Spatial Data". The main content area is white and contains the following elements:

- A "Home" link.
- A heading "Spatial Data Download".
- Metadata: "Country: Sri Lanka" and "Subject: Roads".
- A prominent "Download" link.
- A sidebar on the right with a list of links: "Frequently Asked Questions", "Development", "Links", and "About us".

A red arrow originates from the top of the page and points directly to the "Download" link.

It will download- LKA_adm.zip



The screenshot shows a web browser window with the URL <https://diva-gis.org/dataadown>. The browser's address bar and tabs are visible at the top. The main content area of the browser displays the DIVA-GIS website. The website has a blue header with the text "DIVA-GIS" and the tagline "free, simple & effective". Below the header, there are three buttons: "Download program", "Documentation", and "Free Spatial Data". The main content area is white and contains the text "Home", "Spatial Data Download", "Country: Sri Lanka", "Subject: Roads", and a "Download" button. A "Downloads" menu is open on the right side of the browser, showing a list of files: "LKA_rds (1).zip", "LKA_rds.zip", and "LKA_adm.zip". A red arrow points from the text "LKA_adm.zip" in the top header to the "LKA_adm.zip" entry in the download menu. The browser's taskbar and system tray are visible at the bottom.

https://diva-gis.org/dataadown

Import Favorites Gmail YouTube Maps News Dell (9) How to Georef...

DIVA-GIS
free, simple & effective

Download program Documentation Free Spatial Data

Home

Spatial Data Download

Country: Sri Lanka
Subject: Roads

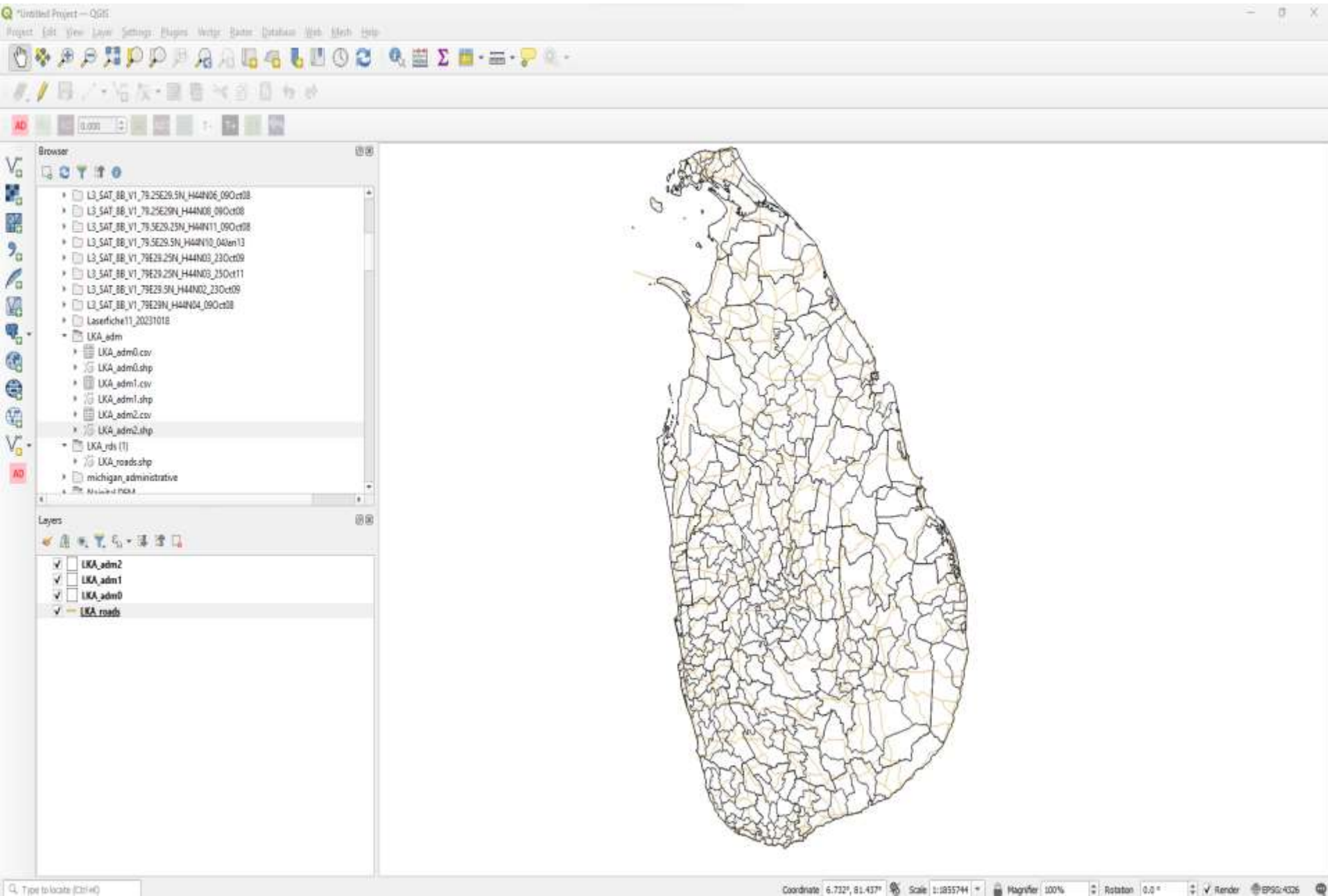
[Download](#)

- [Frequently Asked Questions](#)
- [Development](#)
- [Links](#)
- [About us](#)

Downloads

- LKA_rds (1).zip
[Open file](#)
- LKA_rds.zip
[Open file](#)
- LKA_adm.zip
[Open file](#)
- See more

Open downloaded (Vector) file in QGIS



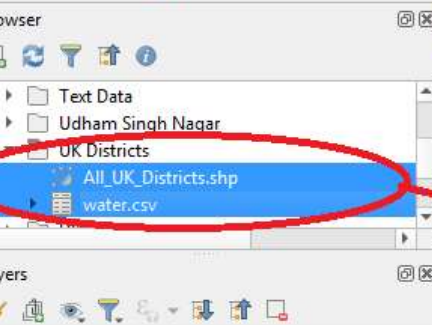
HANDS ON EXCERSISE

- HANDS ON EXCERSISE
- 1. Downloading of Raster Data
- 2. Downloading of Vector Data
- 3. Integration of Non-Spatial Data
- with Spetial (Vector) Data

3. Integration of Non-Spatial Data with Spatial (Vector) Data

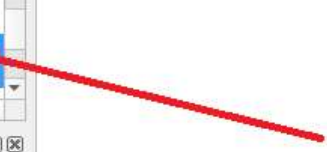
*Untitled Project — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help



Plugin quick_map_services: This plugin is disabled because it previously crashed QGIS. Enable Plugin Ignore

Add File



*Untitled Project — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help



Browser

- Text Data
- Udham Singh Nagar
- UK Districts
 - All_UK_Districts.shp
 - water.csv

Layers

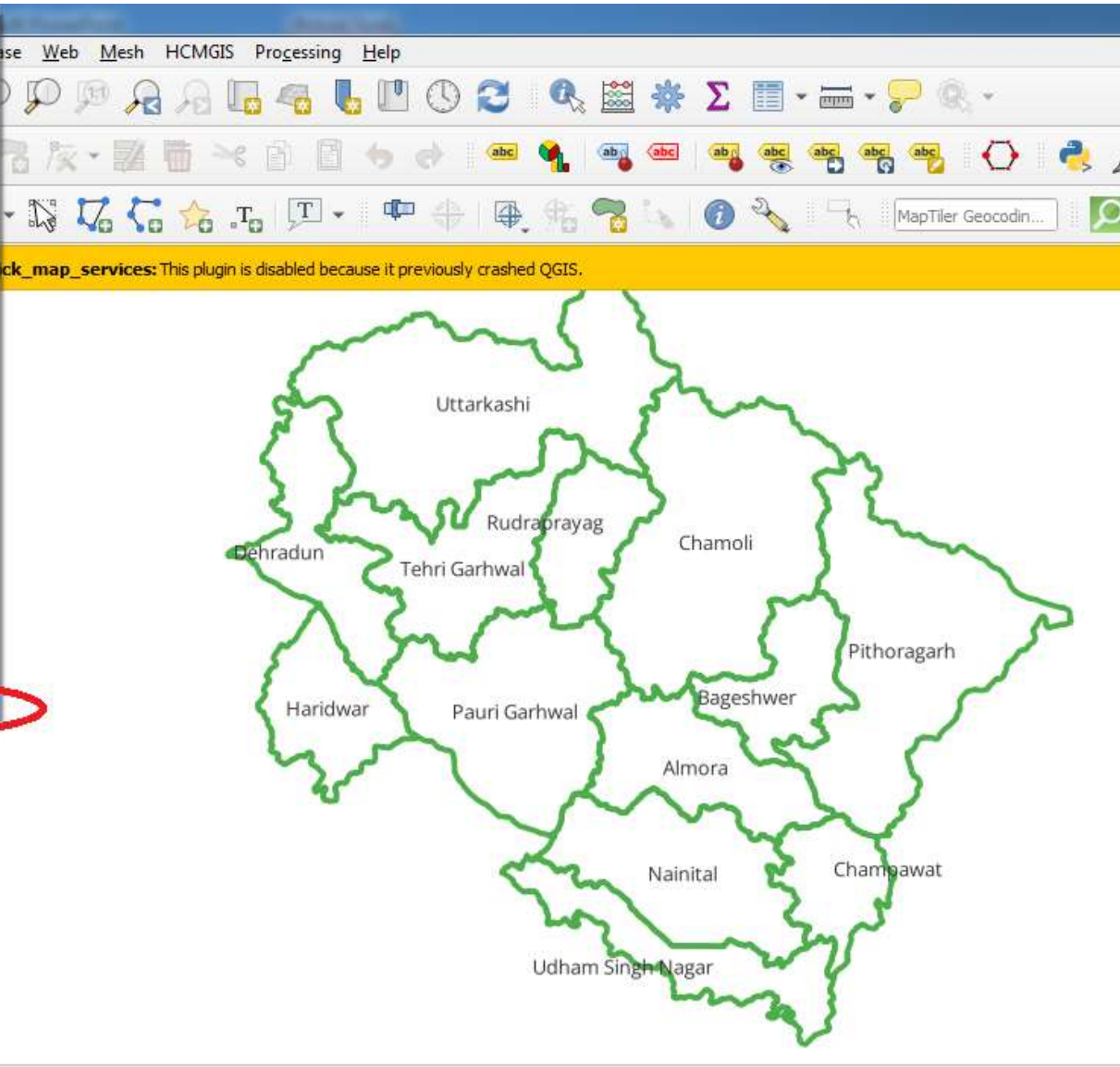
- water
- All UK Districts

Plugin quick_map_services: This plugin is disabled because it previously crashed QGIS.



QGIS interface showing the context menu for the 'All UK Districts' layer. The menu options are:

- Zoom to Layer(s)
- Zoom to Selection
- Show in Overview
- Show Feature Count
- Show Labels
- Copy Layer
- Rename Layer
- Duplicate Layer
- Remove Layer...
- Move to Top
- Open Attribute Table
- Toggle Editing
- Filter...
- Change Data Source...
- Set Layer Scale Visibility...
- Layer CRS
- Export
- Styles
- Add Layer Notes...
- Properties...



*Untitled Project — QGIS

Project Edit View Layer Settings Plugins Vector Re

Project Browser

- Text Data
- Udham Singh Nagar
- UK Districts
 - All_UK_Districts.shp
 - water.csv

Layers

- water
- All UK Districts

Layer Properties — All_UK_Districts — Joins

Setting	Value
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Information

Source

Symbology

Labels

Masks

3D View

Diagrams

Fields

Attribute Form

Joins

Auxiliary Storage

Actions

Display

Rendering

Temporal

Variables

Elevation

Style

OK Cancel Apply Help

*Untitled Project — QGIS

Project Edit View Layer Settings Plugins Vector Ra

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Setting	Value
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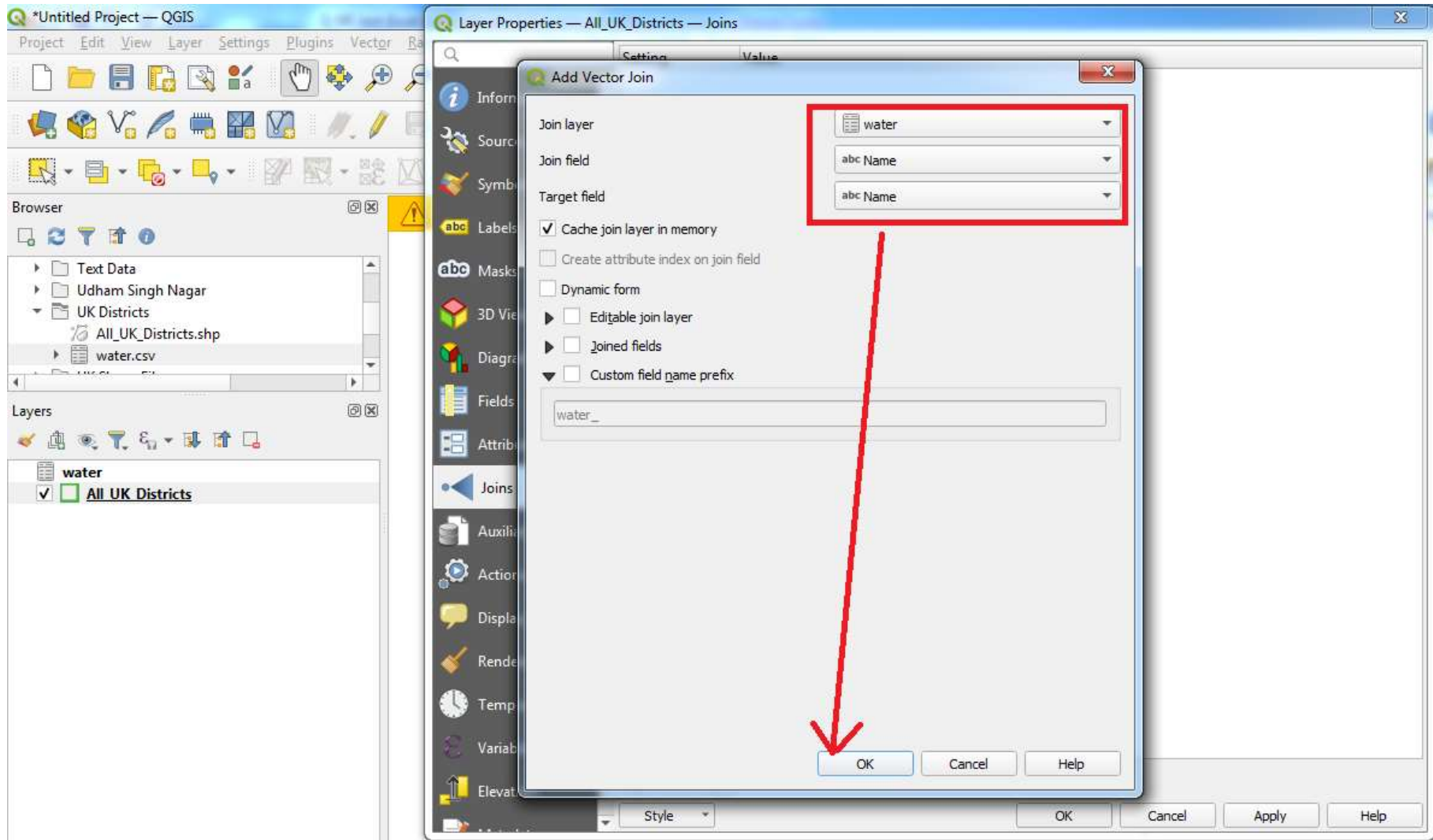
Temporal

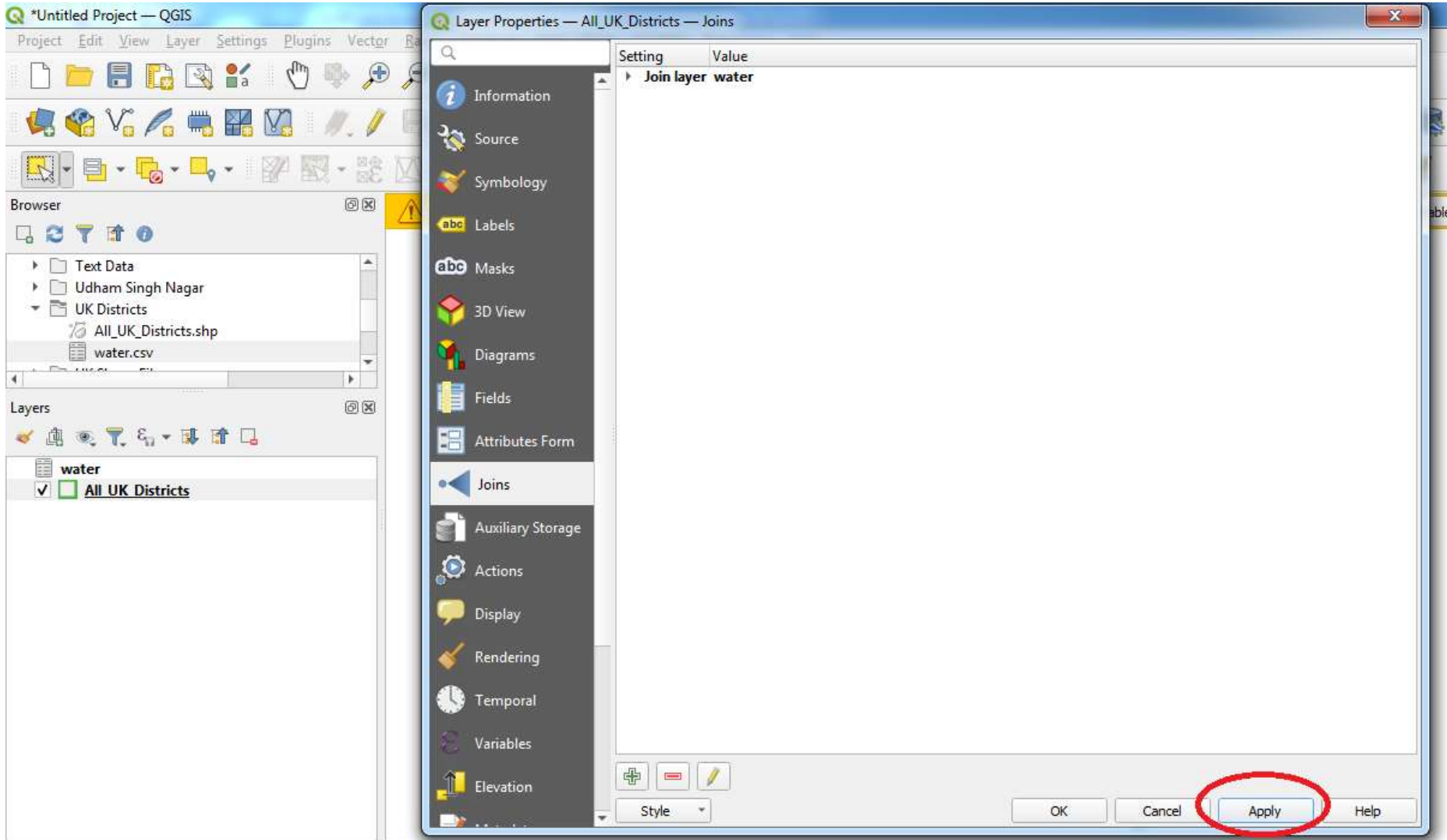
Variables

Elevation

Join Excel seat

OK Cancel Apply Help





Browser

- Text Data
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 - UK Districts
 - All_UK_Districts.shp
 - water.csv

Layers

- water
- All UK Districts

All_UK_Districts — Features Total: 13, Filtered: 13, Selected: 0

	PER_SC	PER_ST	LI_RATE	D_CODE	water_field_1	water_Pop_23_Urban	water_Pop_55_Urban	water_Need_23_Urban	ater_Need_55_Urba	
1	22	19.68	0.16	71	6	13	31363	61471	4.87	9.55
2	16	27.73	0.76	69	10	2	47728	93547	7.41	14.52
3	47	18.25	0.52	68	11	3	63317	124101	9.83	19.27
4	98	24.26	0.21	70	8	1	74264	145557	11.53	22.6
5	41	24.41	1.06	65	1	12	77099	151114	11.97	23.46
6	49	20.25	3.13	72	2	7	115621	226617	17.95	35.18
7	70	16.50	0.14	66	3	9	122406	239916	19	37.24
8	68	24.90	4.04	71	7	5	127849	250584	19.85	38.91
9	29	17.80	0.32	72	5	8	290696	569764	45.13	88.45
10	25	20.03	0.79	73	9	4	566766	1110861	87.99	172.46
11	01	21.76	0.33	62	12	11	951682	1865297	147.75	289.59
12	49	14.45	7.46	63	13	6	1038292	2035052	161.19	315.93
13	49	13.49	6.58	74	4	10	1427734	2798359	221.66	434.45

Show All Features

