GOOGLE EARTH PRO

INTRODUCTION and
Creation of KML Layers

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Image IBCAO
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat / Copernicus

Google Earth

OUTLINE

- Introduction

- Download and Installation of Google Earth Pro in PC, Mobile etc.

- Creation of KML Layers for ULB jurisdiction in AP

  - Survey Ward Boundary

  - Revenue Ward Boundary

  - Election Ward Boundary

  - Ward Secretariat Boundary

Google Earth – An Introduction

- **Google Earth** is a computer program that renders a 3D representation of Earth based primarily on satellite imagery. The program maps the Earth by superimposing satellite images, aerial photography, and GIS data onto a 3D globe, allowing users to see cities and landscapes from various angles.
- Google Earth is able to show various kinds of images overlaid on the surface of the earth and is also a Web Map Service client.
- **Google Earth Pro** is a free computer program for users with advanced feature needs which Import and export GIS data, and go back in time with historical imagery

- Can explore the globe by entering addresses and coordinates, or by using a keyboard or mouse.
- Can also be downloaded on a smartphone or tablet, using a touch screen or stylus to navigate.
- May use the program to add their own data using **Keyhole Markup Language(KML)** and also provides a series of other tools through the desktop application, including a measure distance tool.

- The web-based version of Google Earth also includes Voyager, a feature that periodically adds in-program tours, often presented by scientists and documentarians.

Google Earth Pro: System Configuration

In order for Google Earth Pro to run on your computer, you must have all minimum system requirements.

Windows System Configuration

Minimum:

- Operating System: Windows 7
- CPU: 1GHz or faster
- System Memory (RAM): 2GB
- Hard Disk: 2GB available space
- Internet Connection
- Graphics Processor: DirectX 9 or OpenGL 1.4 compatible

Recommended:

- Operating System: Windows 7 or higher
- CPU: 2GHz dual-core or faster
- System Memory (RAM): 4GB
- Hard Disk: 4GB available space
- High-Speed Internet Connection
- Graphics Processor: DirectX 11 or OpenGL 2.0 compatible

What is KML?

- **Keyhole Mark-up Language (KML)** is an XML notation for expressing geographic annotation and visualization within internet based, two-dimensional maps and three-dimensional Earth browsers
- KML is a way of displaying geographical data in an Earth Browser

KML Functions

- KML includes features that allow it to display:
  - Place marks
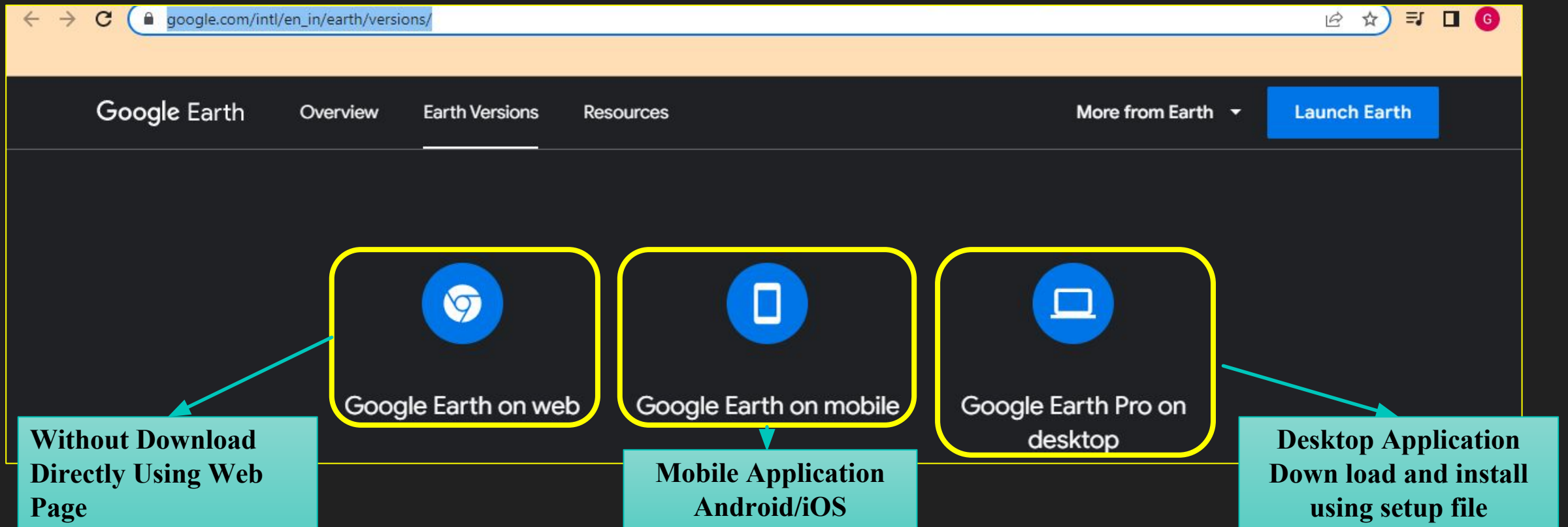 - Images
  - Polygons
  - 3D models
  - Textual descriptions

To download and install Google Earth Pro on your computer

- Open the below link

    https://www.google.com/intl/en_in/earth/versions/

- Below webpage will be opened showing the Google Earth versions
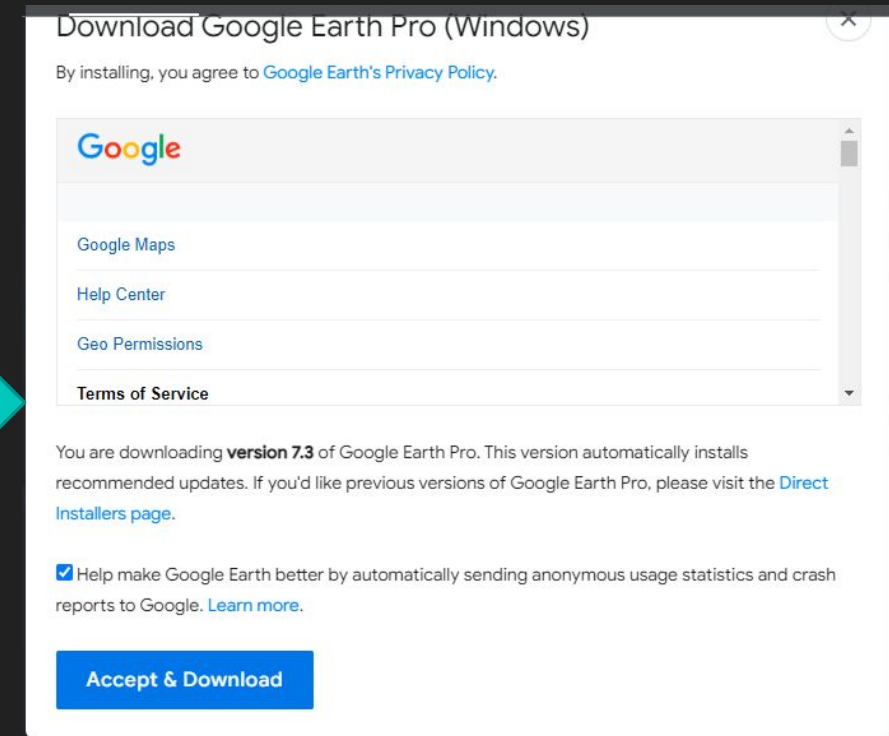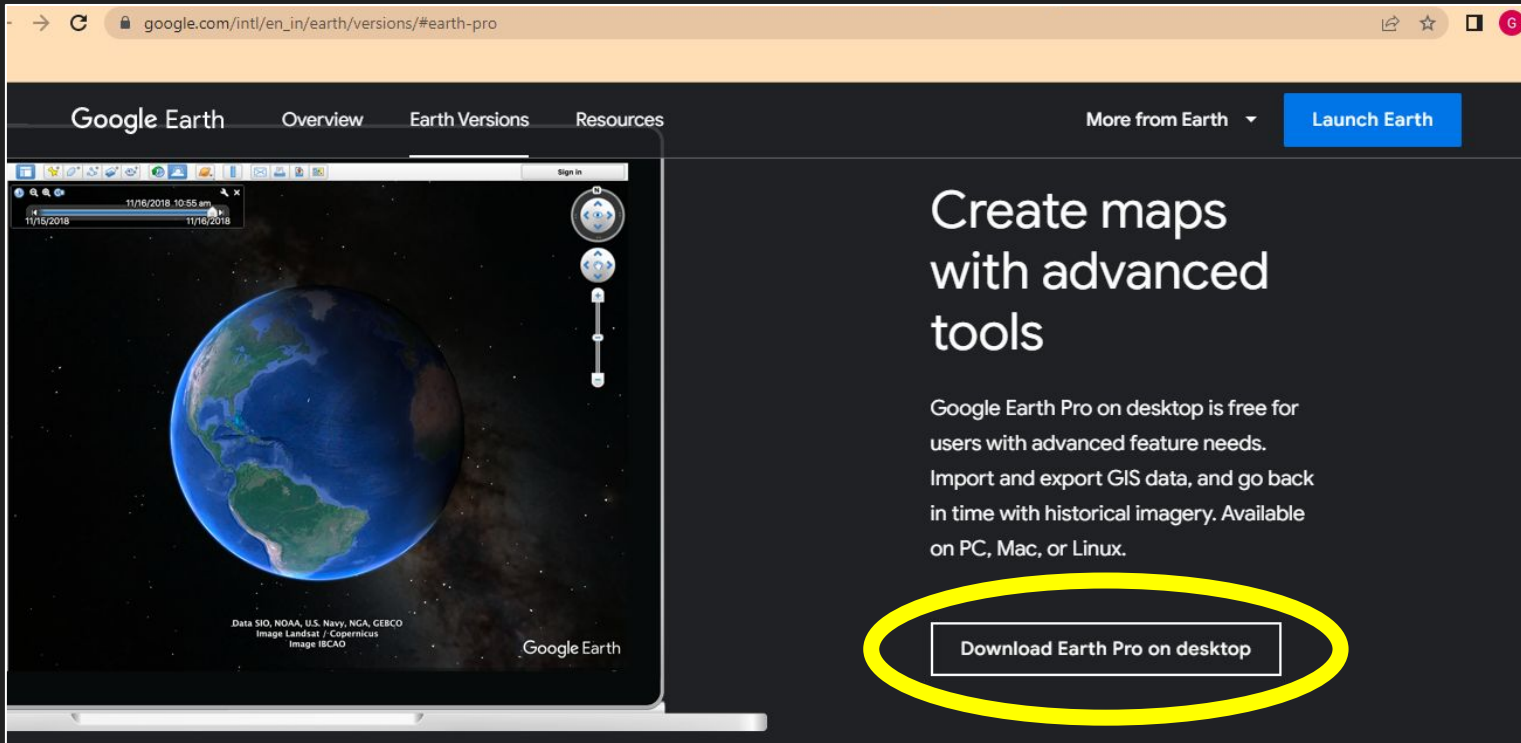

Without Download Directly Using Web Page

Mobile Application Android/iOS

Desktop Application Down load and install using setup file

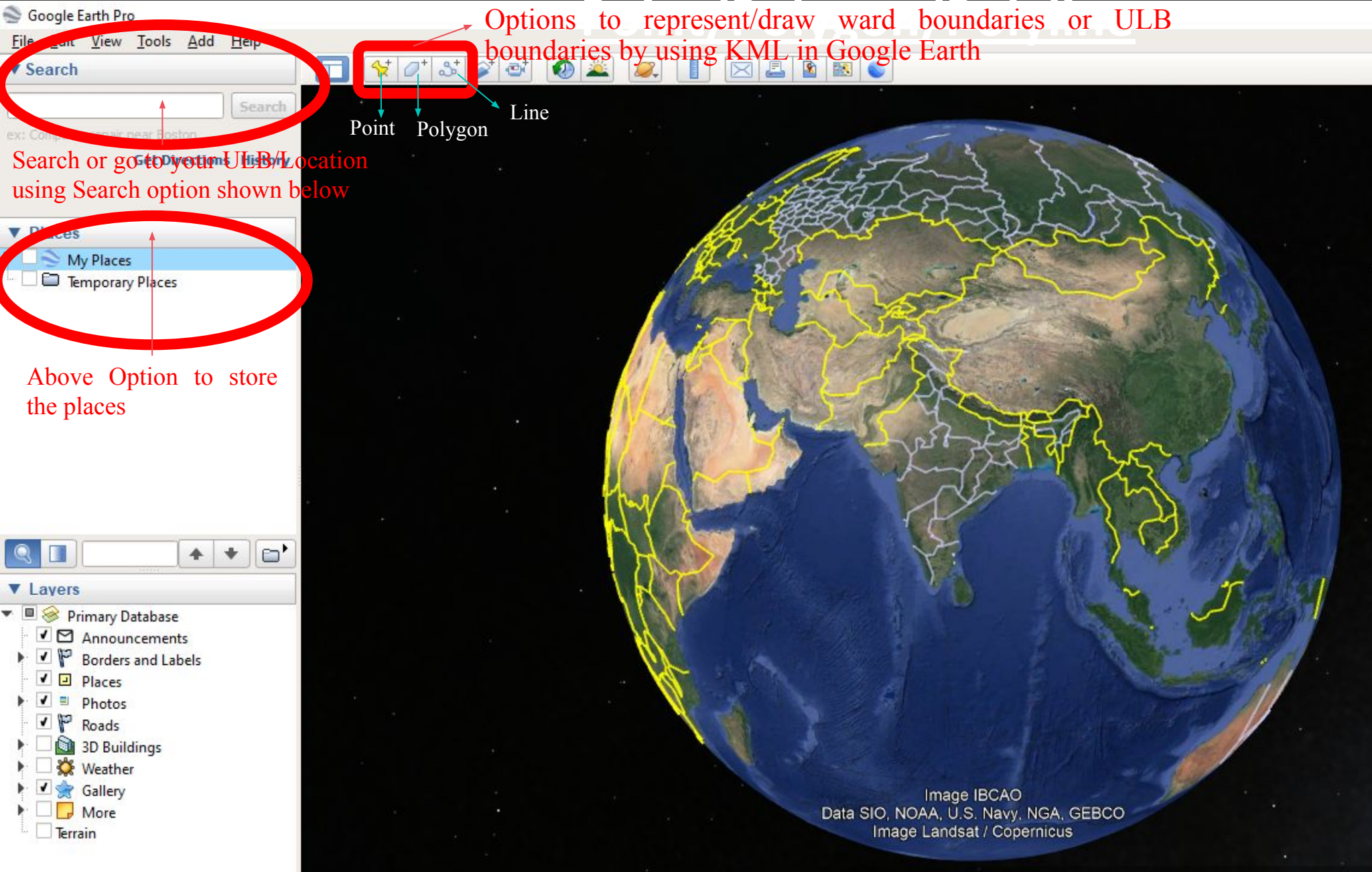# Google Earth Pro Desktop/PC Application Installation

Below webpage allows to download the set up file to install the software

The following setup file downloaded to install the software

GoogleEarthProSetup.exe

How to Draw a

Options to represent/draw ward boundaries or ULB boundaries by using KML in Google Earth

Point   Polygon   Line

Search or go to your ULB/Location using Search option shown below

Above Option to store the places

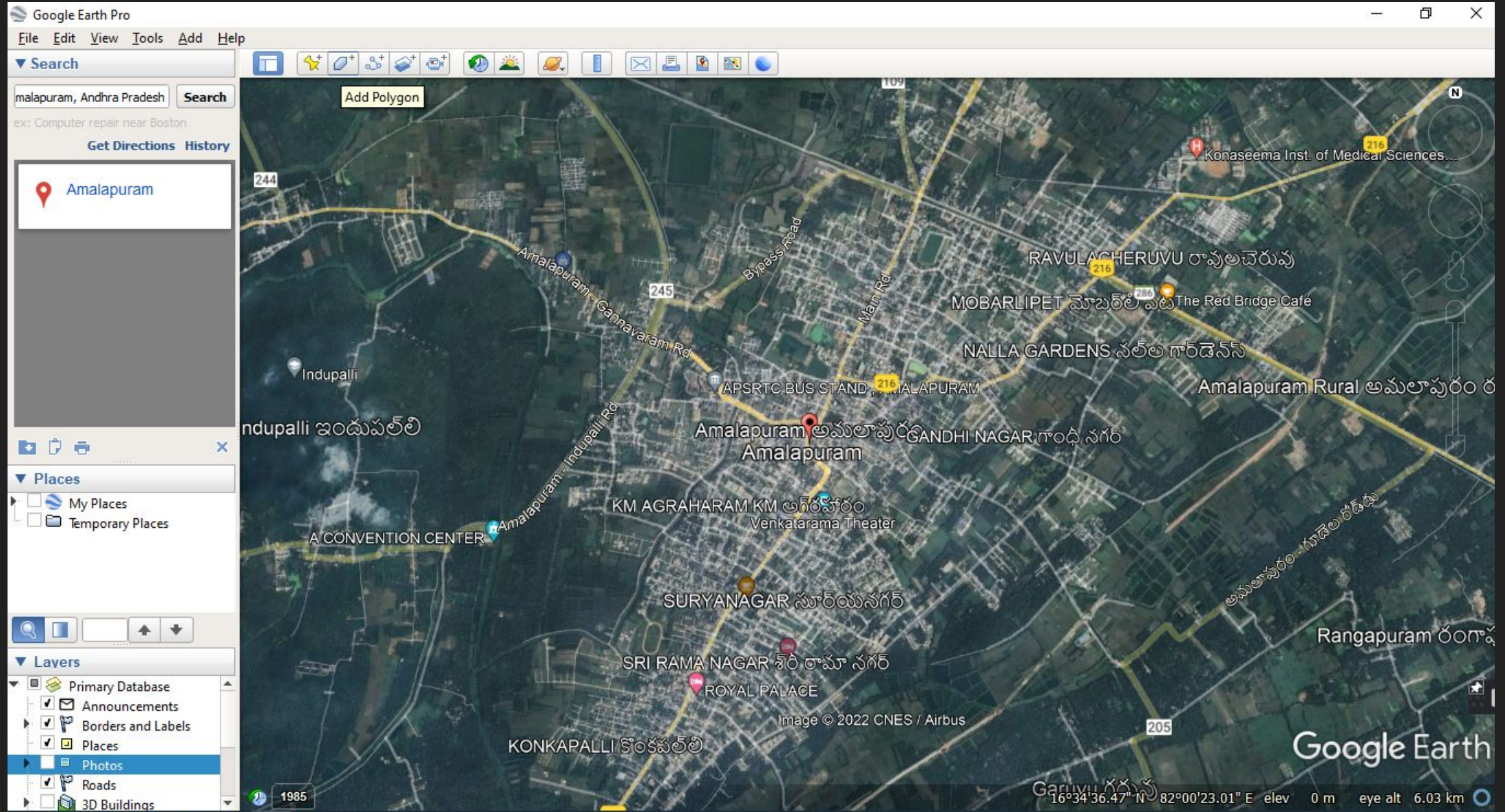**Basic Spatial Elements - Points, Lines and Polygons**

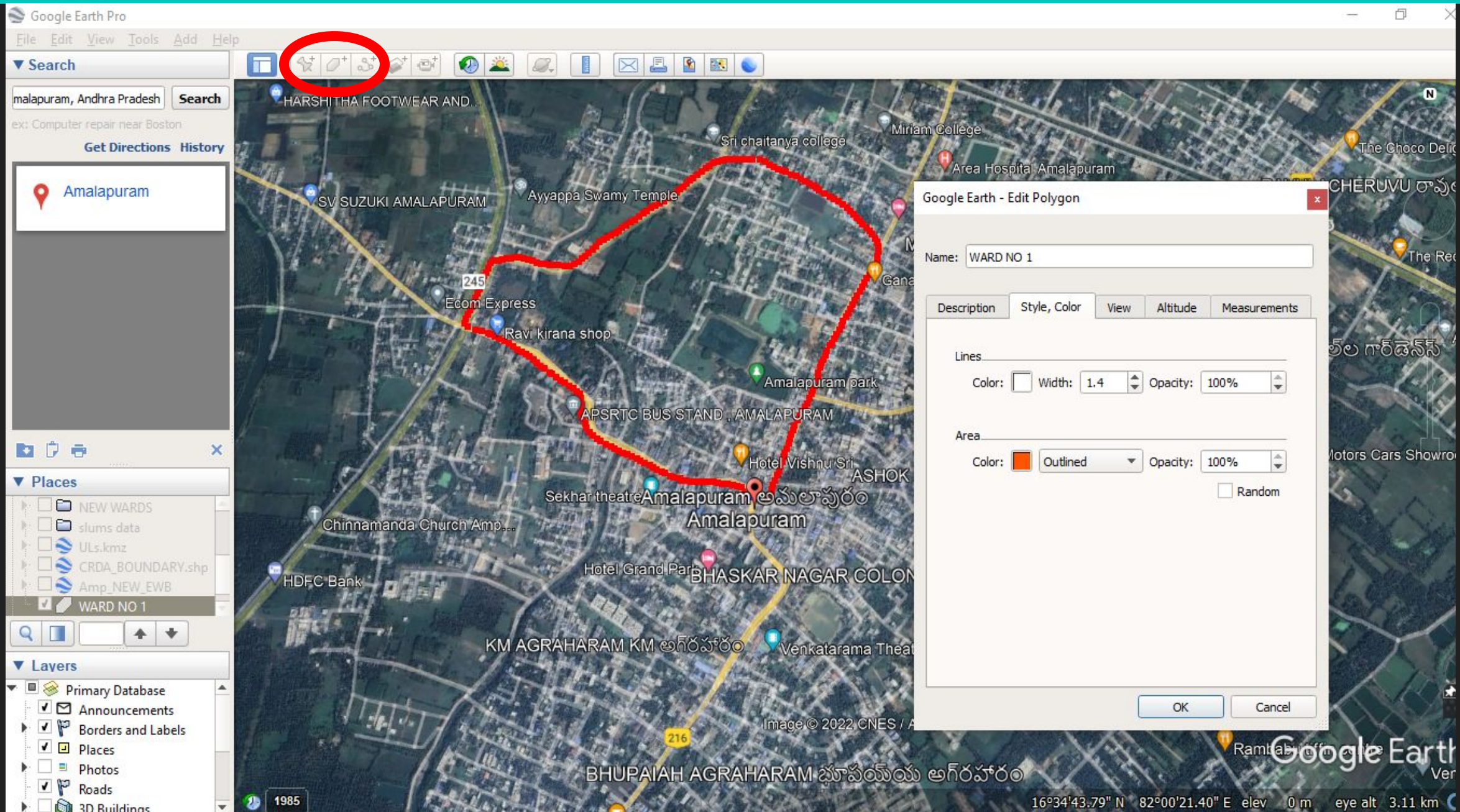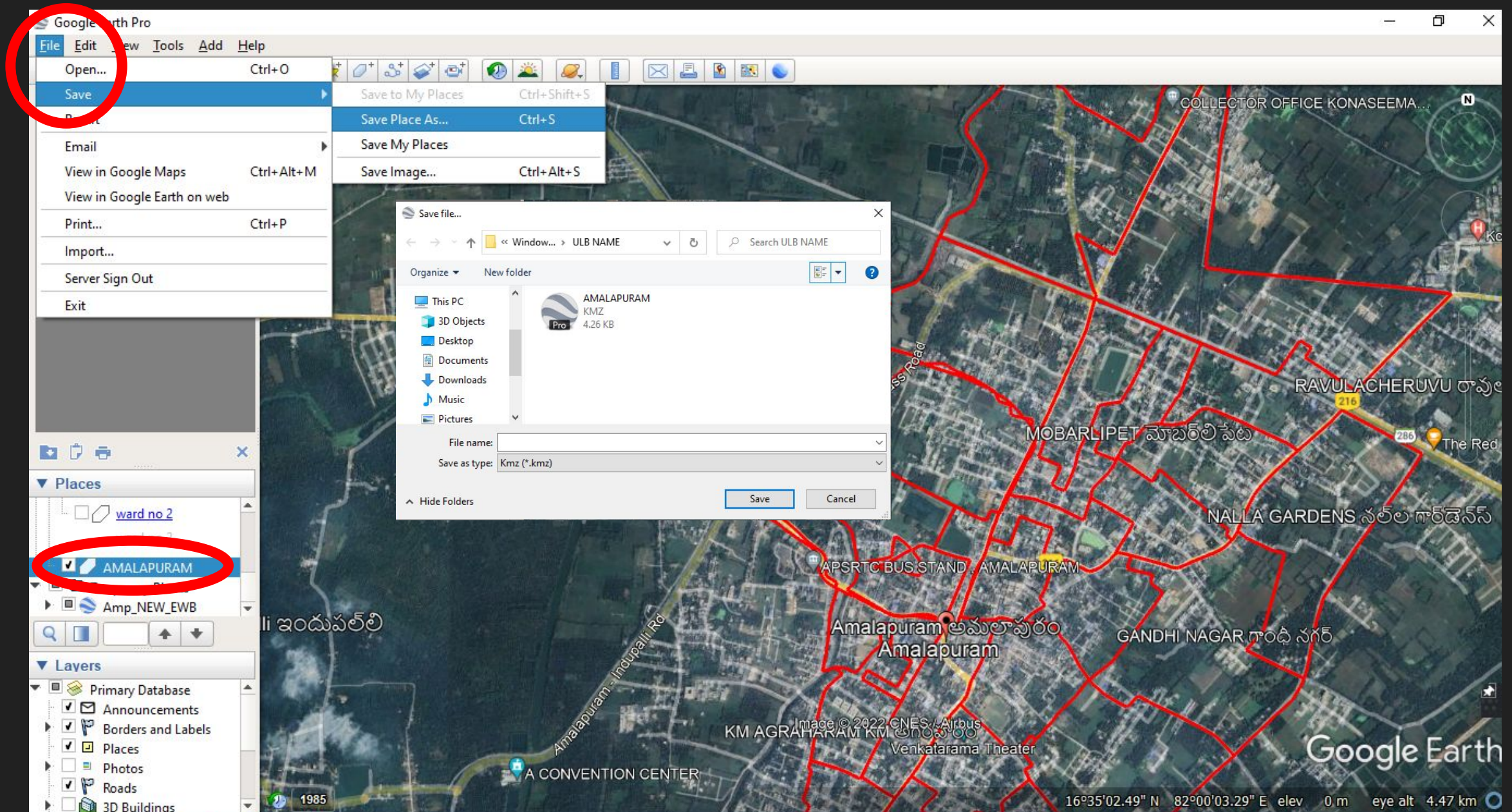**Points/Placemark**

Polyline

Polygon

After entering Location/ULB name, the program takes to the desired location as shown

Then, click on add location option in title bar shown below in highlighted box to add location mark/polygon/line

After completion of polygon drawing, to save the file in KML format. Right Click on given Polygon name or on polygon, **select save place as** option and select file type as KML and save the file as shown below..,

Thank you