**Data Sources**

**GeoCity Wizard**

**Web-hosted data**

1. Provinces and Territories of Canada via esri Canada (<https://services.arcgis.com/zmLUiqh7X11gGV2d/arcgis/rest/services/Canada_Provinical_boundaries_generalized/FeatureServer>)
2. Sentinel-2 10m Land Use/Land Cover Change from 2018 to 2021 via esri (<https://env1.arcgis.com/arcgis/rest/services/Sentinel_2_10m_Land_Cover_Change/ImageServer>)
3. Canadian Protected & Conserved Areas Database\* via esri Canada (<https://services1.arcgis.com/B6yKvIZqzuOr0jBR/arcgis/rest/services/CPCAD_Dec2019_proj/FeatureServer> ) \*Note: This was utilized during Web Map development. A local gdb was also downloaded from Canada Open Data and as main source of spatial analysis.

**Open sourced data in geodatabase or shapefile format:**

1. Canadian Protected & Conserved Areas Database The Canadian Protected and Conserved Areas Database was downloaded from Canada's Open Data Portal as a geodatabase via <https://www.canada.ca/en/environment-climate-change/services/national-wildlife-areas/protected-conserved-areas-database.html>

This is the main source for spatial analysis.

1. Terrestrial Ecoregion The geodatabase was downloaded from Canada's Open Data Portal via https://open.canada.ca/data/en/dataset/ade80d26-61f5-439e-8966-73b352811fe6

Ecoregion Descriptions retrieved and scraped from Ecological Framework of Canada website: <http://www.ecozones.ca/>

Python codes and output csv can be found here: <https://github.com/MohitFrancis/EsriAppChallenge2023/tree/main/scripts>

1. Key Biodiversity Areas The Canada Key Biodiversity Areas dataset was downloaded from KBA Canada (<https://kbacanada.org/explore/map-viewer/> ) as shapefile. The file is read directly into ArcGIS Pro.

**Open sourced data in other formats that were first converted into geodatabase in ArcGIS Pro:**

1. Exclusive Economic Zone (EEZ) The EEZ zone dataset was downloaded from Flanders Marine Institute (<https://www.marineregions.org/eezdetails.php?mrgid=8493> ) as GML file. The file is read directly into ArcGIS Pro and converted into a geodatabase.
2. Important Bird Areas (IBA) The Canada Important Bird Areas dataset was downloaded from IBA Canada (<https://www.ibacanada.org/explore_how.jsp?lang=en> ) as KML file. The file is read directly into ArcGIS Pro and converted into a geodatabase.