**Task 6 - Online Free Databases and its comparison**

(T6. Research which altitude databases (c) are freely accessible on the Internet. Compare these in terms of the accuracy of the altitudes provided. R6: List of freely accessible altitude databases, estimation of the accuracy of the altitudes provided [text].)

**List of altitude databases:**

1. **SRTM: (Shuttle Radar Topography Mission)**

**Accuracy:** 30 meters (1-arc-sec) for most regions, 90 meters (3-arc-sec) for some regions

**Access through:** Accessible through USGS Earth Explorer, NASA Earth Data and OpenTopography

**Open Source?** Yes

1. **ASTER: (Advanced Spaceborne Thermal Emission and Reflection Radiometer) GDEM**

**Accuracy:** 30 meters (1-arc-sec)

**Access through:** Nasa Earth Data,

**Open Source?** Yes

1. **Copernicus DEM (Digital Elevation Model):**

**Accuracy:** 10 meters (0.3-arc-sec ) for 39 European countries (EEA-10), 30 meters (1-arc-sec) for Global Coverage (GLO-30)

**Access through:** Copernicus Data Space Ecosystem

**Open Source?** GLO-30 YES!

EEA-10 Copernicus Services

EU institutions

Space research projects (EU funded)

Non-space research projects (EU funded)

Copernicus operators

1. **Google Earth Engine:**

**Accuracy:** 30 meters

**Access through:** Google Earth / Earth Engine API

**Open Source?** While the core Google Earth Engine platform is not open source, the client libraries for JavaScript and Python are, allowing users to build custom applications and develop code locally using these languages