

## RADIO MOBILE - Installation manual (how to install)

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**Course:** Telecommunication Networks

## RADIO MOBILE



**Radio Mobile** is freeware simulation software which operates over frequency range of 20MHz to 20 GHz. The program enables elevation maps to be drawn of specified areas using downloaded SRTM data from the Space Shuttle Radar Terrain Mapping Mission, elevation contours and road maps to be added, and Radio Units (stations) specified for performance and placed where required.

Individual Radio Unit performance is specified as a Radio Operating 'System' for power, threshold, antenna parameters etc. and all 'Radio Links' between Units can be examined for path profile and signal parameters.

**Radio Mobile** works with online maps like *Google Maps*, *Yahoo Maps*, *OpenStreetMaps* etc. Radio Mobile can export the coverage model for given radio signal to *Google Earth* application format.

### 1. Installation manual

1. Create a folders:

- a) C:\radiomobile
- b) C:\radiomobile\srtm-fix
- c) C:\radiomobile\google

- a) Download Radio Mobile installation file [radiomobile.zip](#) from [LMS Moodle VŠB-TUO](#) and extract it to C:\radiomobile.

3. Run the Radio Mobile software with file C:\radiomobile\rmweng.exe

4. Set up the SRTM maps path (Options>>Internet; tab SRTM )

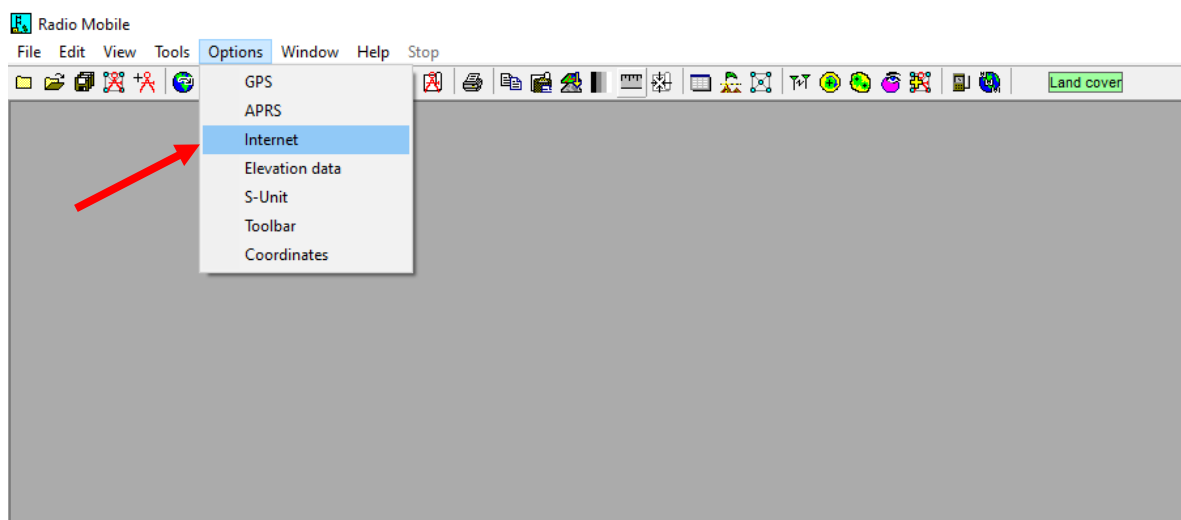


Fig. 1: Internet - menu

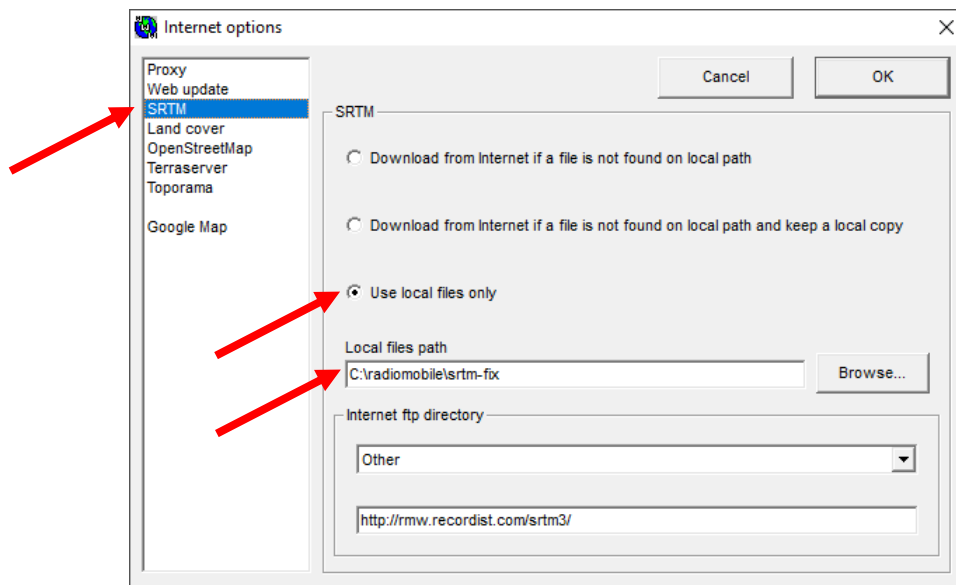


Fig. 2: Internet options - SRTM

- Choose *Use local files only*
- set the path for srtm maps (step. 1.b) c:\radiomobile\srtm-fix

#### 5. Similar setup for Google Map

- Options>>Internet; tab Google Map
- Choose *Download from Internet and keep local copy*
- Set the path for google maps (step. 1.c) c:\radiomobile\google

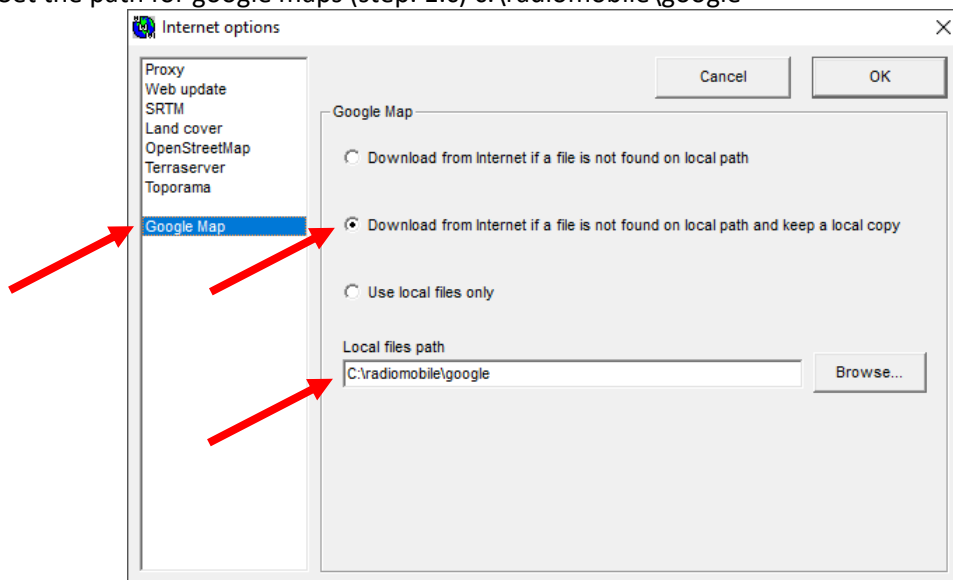


Fig. 3: Internet options – Google Map

Now Radio Mobile is ready for use. Then follow the instructions in the document **Simulation of Coverage with Radiomobile Tool (How to)**.