

Project number:
KA220-SCH-A710136B



Climate Action and Light Pollution Threat



Resources and tools for light pollution Monitoring and mitigation

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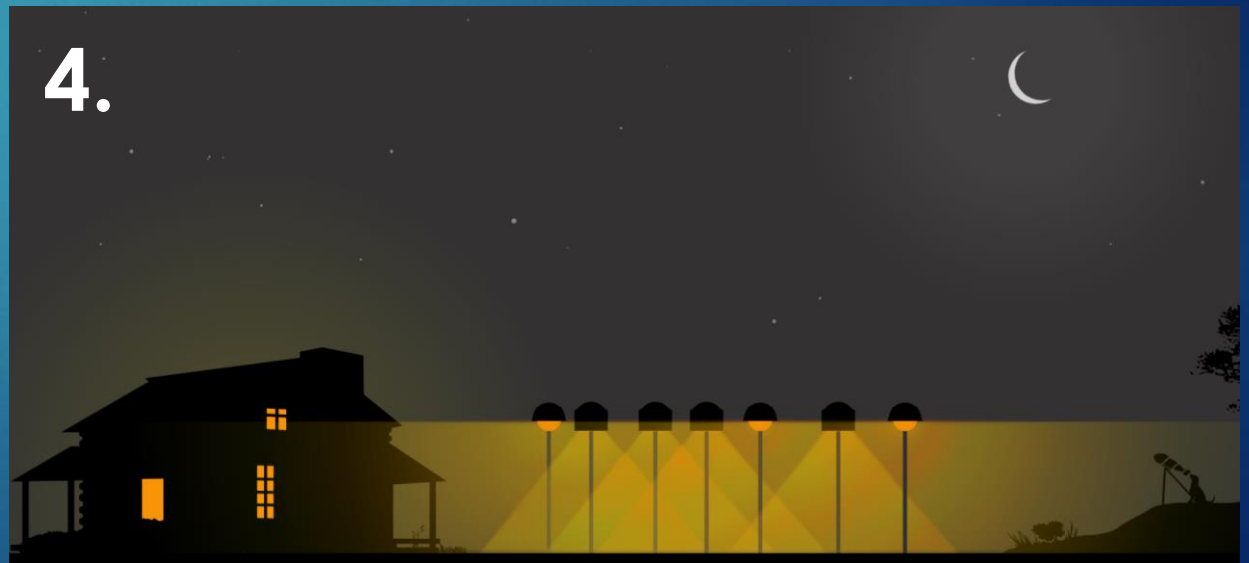
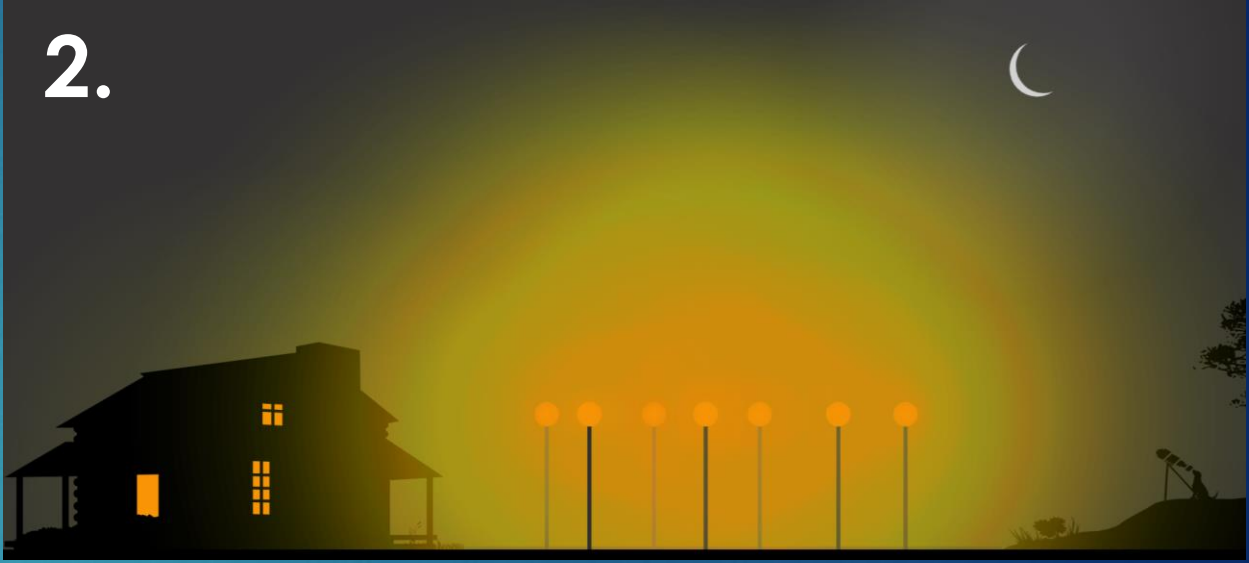
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Outline

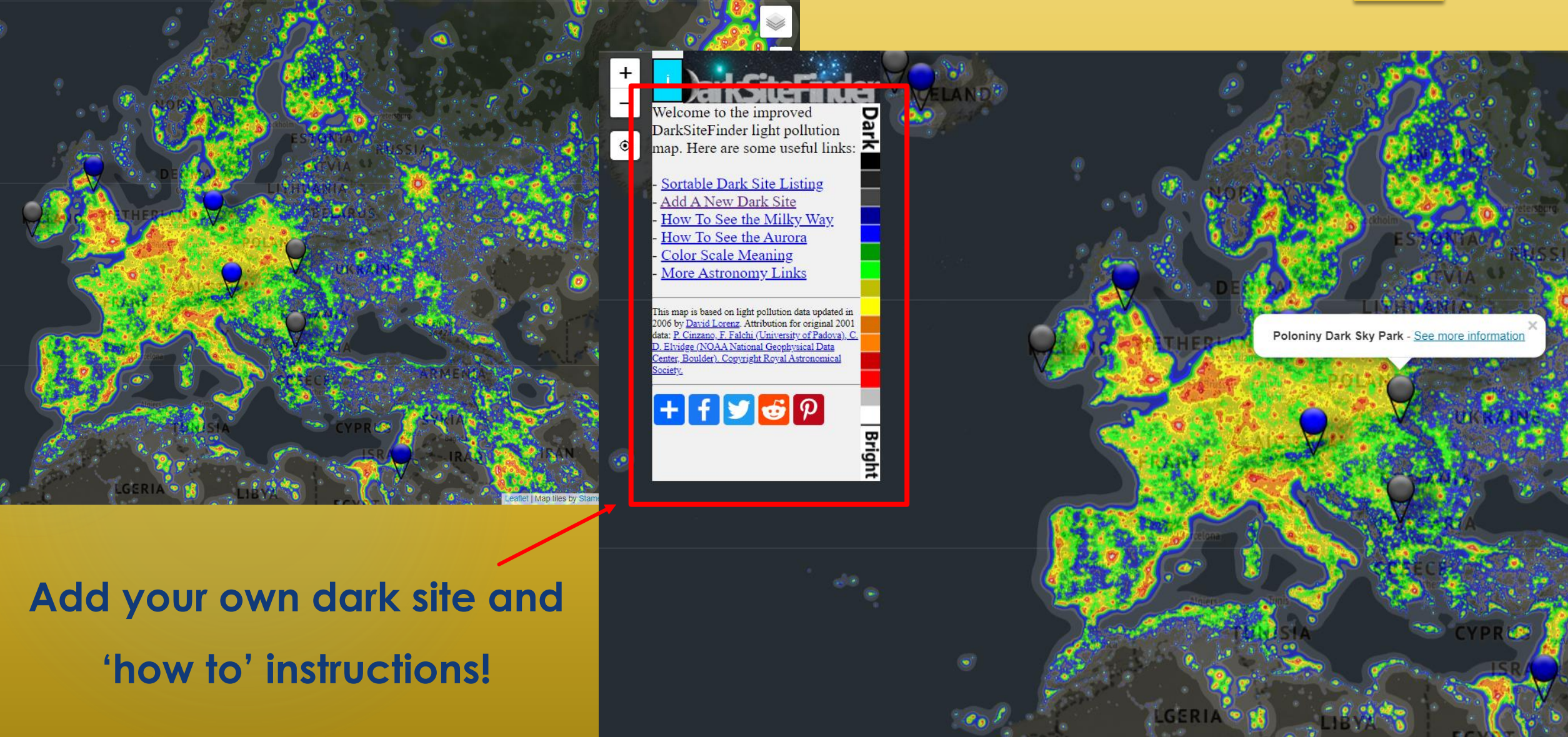


- ▶ Light Pollution Simulator (Grades 3 - 5)
- ▶ DarkSiteFinder (Grades 3 - 9)
- ▶ Light Pollution Interactive Map (Grades 6 - 9)
- ▶ NASAWorldView (Grades 6 - 9)
- ▶ Stellarium (Grades 3 – 9, Mobile and PC versions)

Light Pollution Simulator ([link](#))



DarkSideFinder ([link](#))

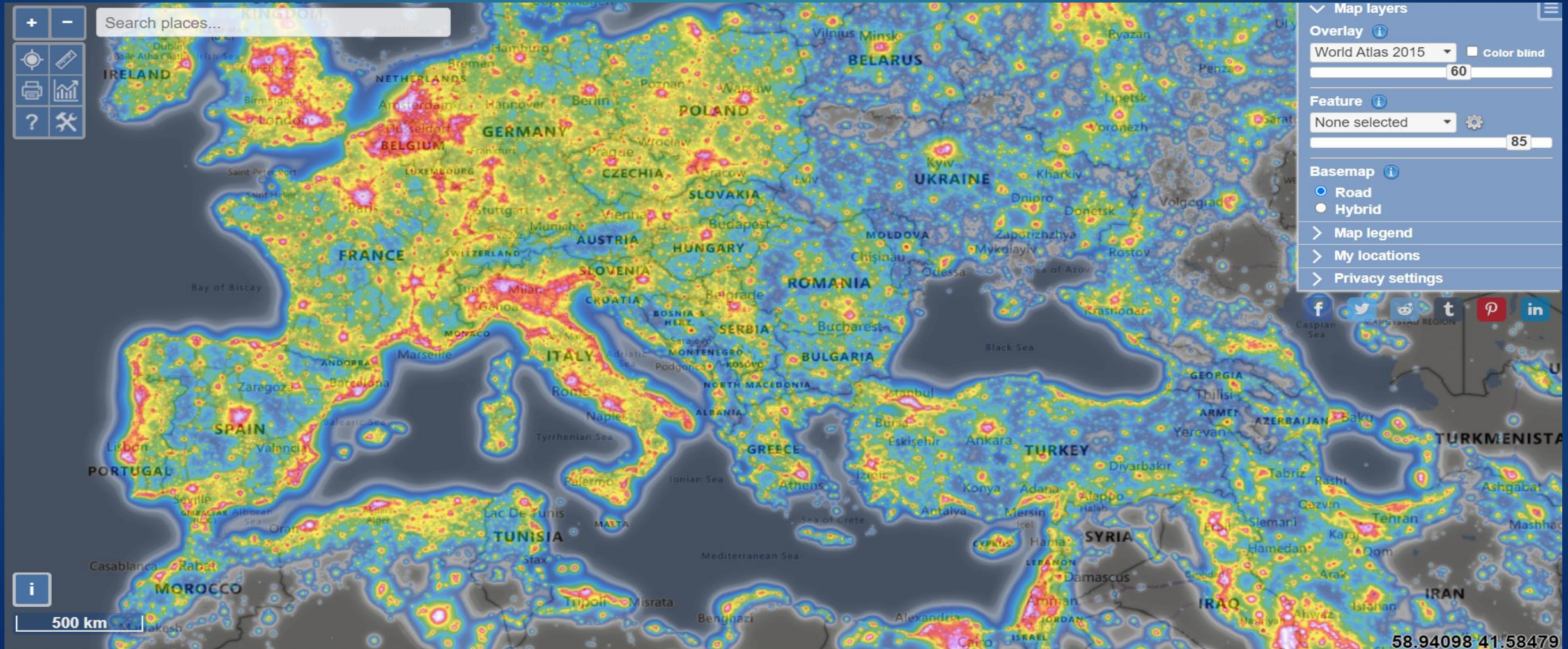


Add your own dark site and 'how to' instructions!

Light Pollution Interactive Map ([link](#))



Use different data per year since 2012, download data, see graphs and statistics etc.



NASAWorldView ([link](#))



See and compare real satellite photos from different satellite missions

The screenshot displays the NASA WorldView web application interface. The main view is a satellite image of Bulgaria at night, showing city lights. A red rectangular box highlights the Sofia area, with a red arrow pointing to it. The interface includes a left sidebar with the following sections:

- Layers:** Includes 'Place Labels' (© OpenStreetMap contributors, Natural Earth), 'Coastlines / Borders / Roads' (© OpenStreetMap contributors), and 'Coastlines' (© OpenStreetMap contributors).
- EARTH AT NIGHT:** Includes 'Black Marble Nighttime At Sensor Radiance (Day/Night Band)' (Suomi NPP / VIIRS) with a scale of 0.7 - 0.8 nW/(cm² sr), and 'Black Marble Nighttime Blue/Yellow Composite (Day/Night Band)' (Suomi NPP / VIIRS).
- BASE LAYERS:** Includes 'Corrected Reflectance (True Color)' and 'Group Similar Layers' (checked).

At the bottom, there is a timeline showing the date '2022 FEB 06' and navigation controls for '1 DAY', 'JAN 2022', 'FEB 2022', and 'MAR 2022'. The bottom right corner shows coordinates '40.9597°, 28.2866°' and the projection 'EPSG:4326'. A scale bar indicates 50 km and 20 mi.

NASAWorldView ([link](#))



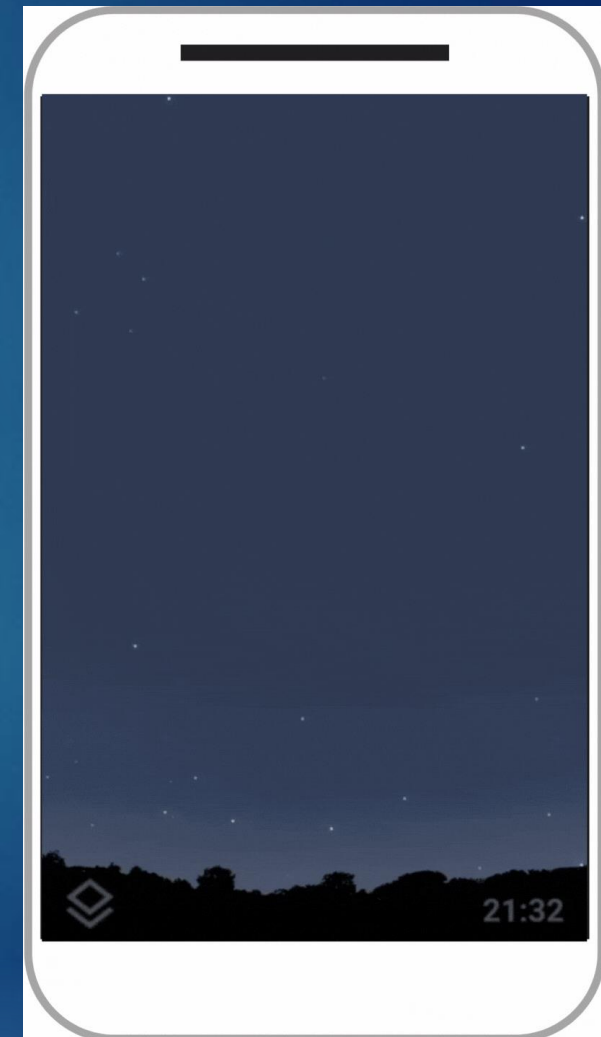
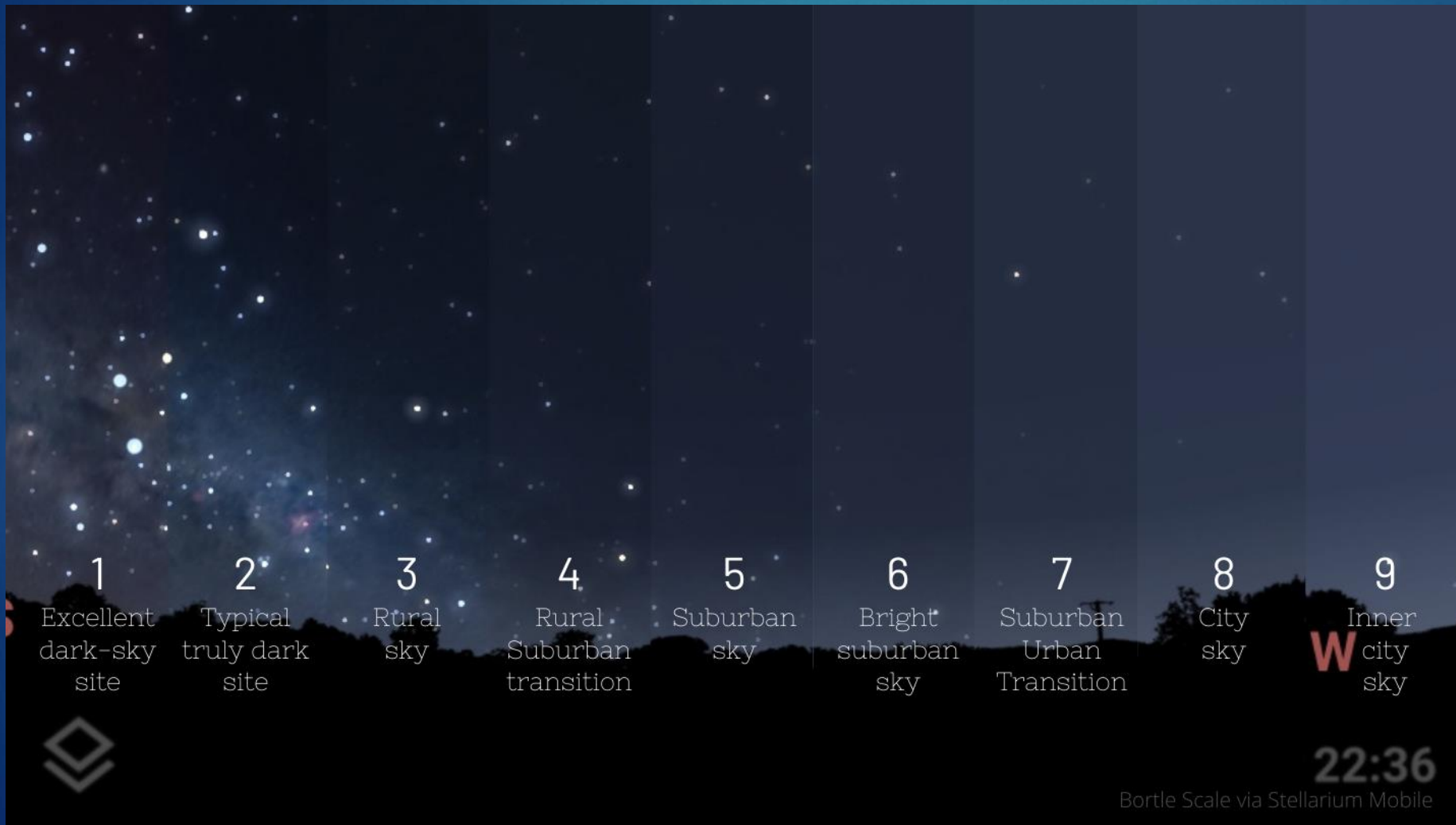
See and compare real satellite photos from different satellite missions

The screenshot displays the NASA WorldView interface for comparing satellite imagery. The main map area shows a side-by-side comparison of two images of Ukraine, labeled 'A: 2022 MAY 02' and 'B: 2022 JAN 30'. A red box highlights a region near Kyiv, with a red arrow pointing to it. The map includes labels for 'Kyiv', 'Bila Tserkva', 'Cherkasy', and 'UKRAINE'. A scale bar indicates 50 km (20 mi). The left sidebar shows layer controls for 'REFERENCE' (Place Labels, Coastlines / Borders / Roads, Coastlines) and 'EARTH AT NIGHT' (Black Marble Nighttime At Sensor Radiance, Black Marble Nighttime Blue/Yellow Composite). The bottom timeline shows the date '2022 MAY 02' and navigation controls.

Stellarium ([link](#))



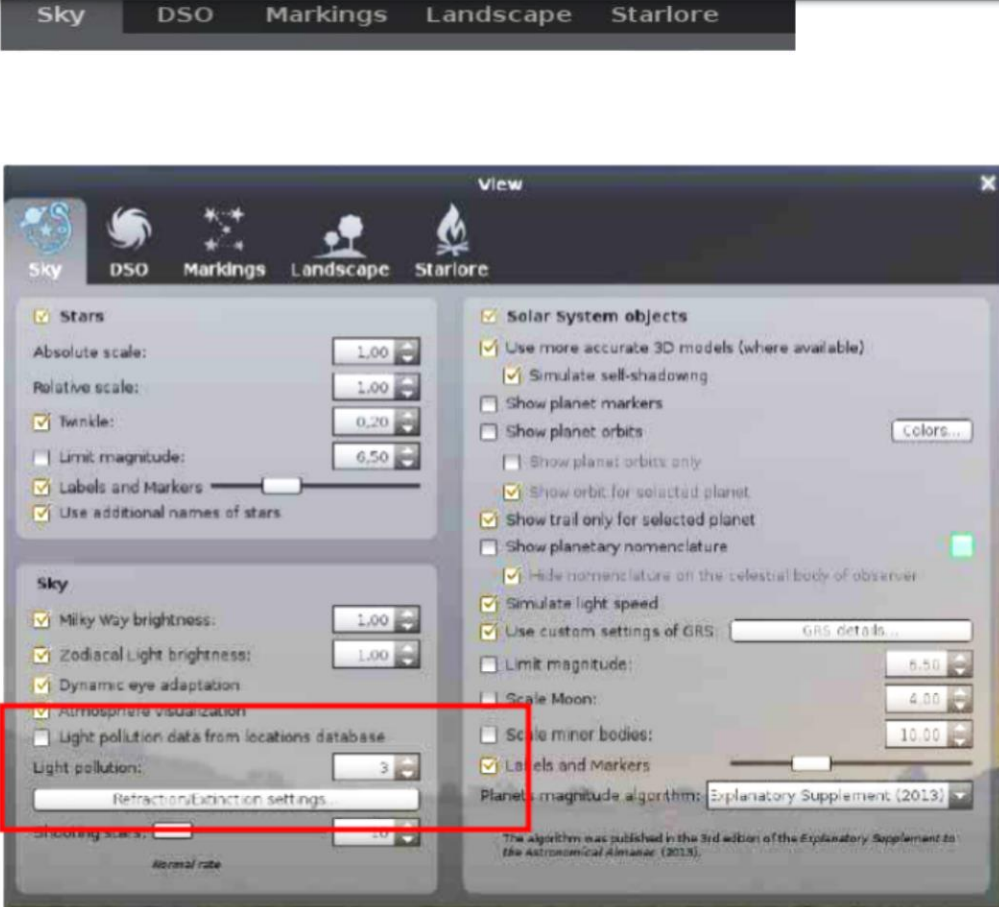
Experience the Night Sky through Stellarium via the Mobile App



Stellarium for PC ([link](#))



Changing the levels of light pollution in Stellarium




Stellarium simulates light pollution and is calibrated to the Bortle Dark Sky Scale where 1 means a good dark sky, and 9 is a very badly light-polluted sky. The box for 'light pollution data from location database' should remain unchecked to allow the user to increase or decrease levels of light pollution.

The dialogue box can be closed by 'x' on right hand side.

There are of course so many other possibilities of learning using Stellarium and one is encouraged to explore freely or research the User Guide PDF on stellarium.org

Fig. 7 Adjusting light pollution level in the View dialogue box.

To Quit Stellarium click the  button or Ctrl + Q .



Thank you!

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