# Supplemental material

A global atlas of artificial light at night under the sea

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Diagram

Description automatically generated

**Figure S1. Critical depth (Zc) for climatological May for North America**. Entire dataset can be downloaded in netCDF format from Pangaea (https://doi.pangaea.de/10.1594/PANGAEA.929749)

A picture containing chart

Description automatically generated

**Figure S2. Critical depth (Zc) for climatological May for Central America.** Entire dataset can be downloaded in netCDF format from Pangaea (https://doi.pangaea.de/10.1594/PANGAEA.929749)

A picture containing chart

Description automatically generated

**Figure S3. Critical depth (Zc) for climatological May for South America**. Entire dataset can be downloaded in netCDF format from Pangaea (https://doi.pangaea.de/10.1594/PANGAEA.929749).

A picture containing chart

Description automatically generated

**Figure S4. Critical depth (Zc) for climatological May for Europe, Northern Africa and Mediterranean.** Entire dataset can be downloaded in netCDF format from Pangaea (https://doi.pangaea.de/10.1594/PANGAEA.929749).

A picture containing chart

Description automatically generated

**Figure S5. Critical depth (Zc) for climatological May for northwest Africa.** Entire dataset can be downloaded in netCDF format from Pangaea (https://doi.pangaea.de/10.1594/PANGAEA.929749).

A picture containing diagram

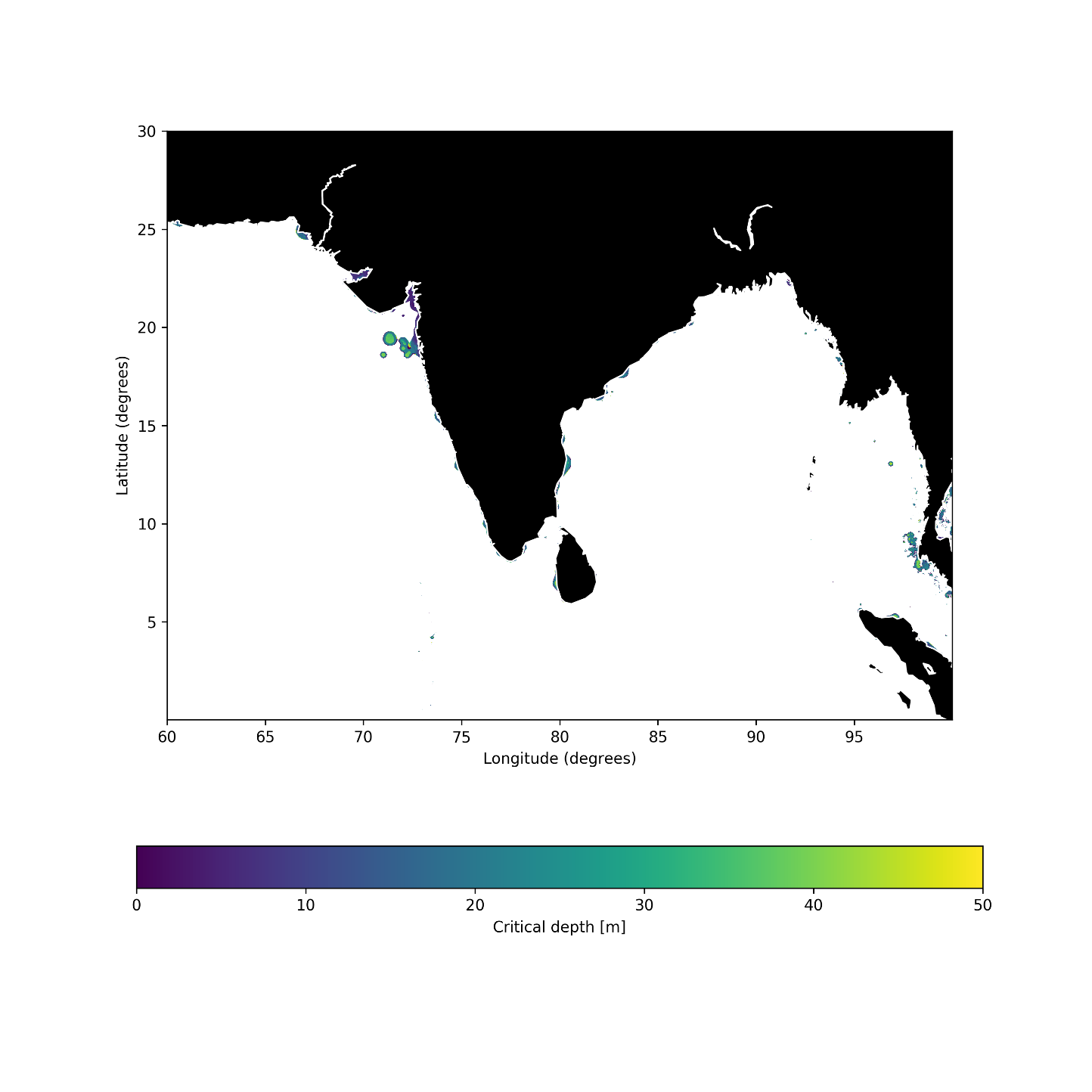
Description automatically generated

**Figure S6. Critical depth (Zc) for climatological May for northeast Africa and Arabian Peninsula.** Entire dataset can be downloaded in netCDF format from Pangaea (https://doi.pangaea.de/10.1594/PANGAEA.929749)

A picture containing timeline

Description automatically generated

**Figure S7. Critical depth (Zc) for climatological May for southern Africa and Madagascar.** Entire dataset can be downloaded in netCDF format from Pangaea (https://doi.pangaea.de/10.1594/PANGAEA.929749).



**Figure S8. Critical depth (Zc) for climatological May for northern Indian Ocean.** Entire dataset can be downloaded in netCDF format from Pangaea (https://doi.pangaea.de/10.1594/PANGAEA.929749).

A picture containing graphical user interface

Description automatically generated

**Figure S9. Critical depth (Zc) for climatological May for Southeast Asia.** Entire dataset can be downloaded in netCDF format from Pangaea (https://doi.pangaea.de/10.1594/PANGAEA.929749).

A picture containing histogram

Description automatically generated

**Figure S10. Critical depth (Zc) for climatological May for northwest Pacific Ocean.** Entire dataset can be downloaded in netCDF format from Pangaea (https://doi.pangaea.de/10.1594/PANGAEA.929749).

A picture containing diagram

Description automatically generated

**Figure S11. Critical depth (Zc) for climatological May for Australia and southeast Asia Island chains.** Entire dataset can be downloaded in netCDF format from Pangaea (https://doi.pangaea.de/10.1594/PANGAEA.929749)