

# How to Protect Your Observatory by Using Satellite Data?



**Alpe Adria 2017**

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# What is Suomi NPP?

- Weather satellite operated by NOAA
- Visible Infrared Imaging Radiometer Suite (VIIRS)
- DNB daily, monthly and annual radiance imagery products

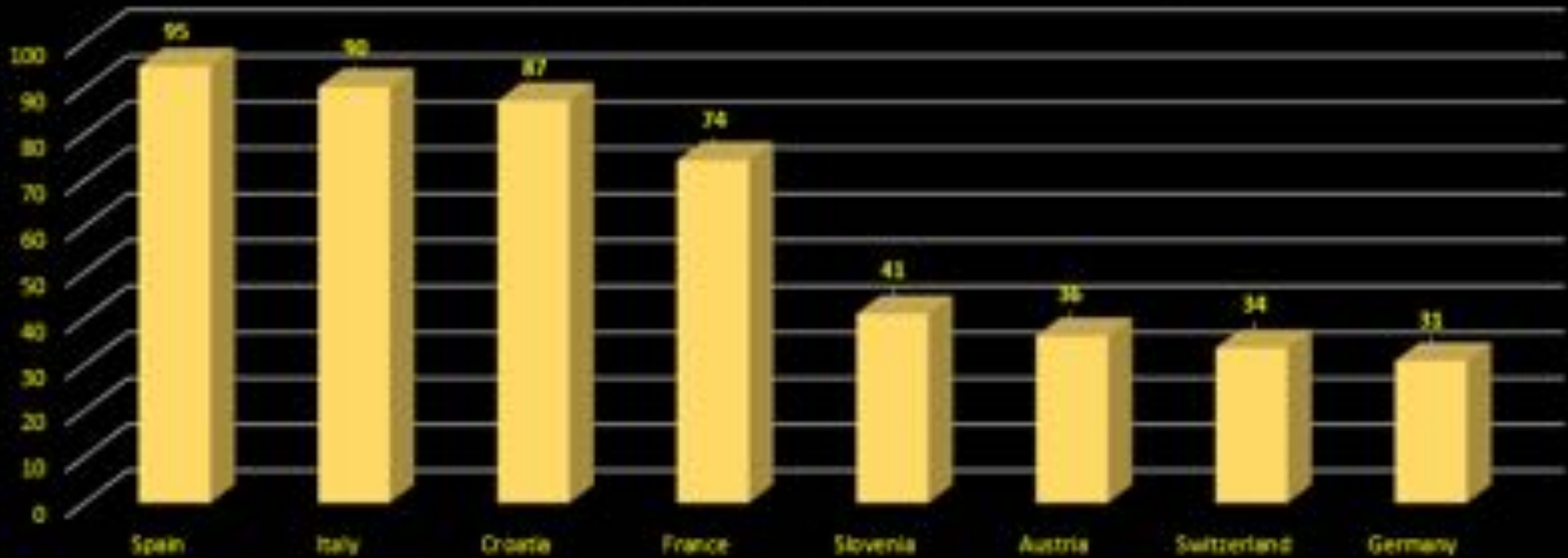
# How to make use of VIIRS DNB data?

**[www.lightpollutionmap.info](http://www.lightpollutionmap.info) use case example**

1. Identify nearest settlements
2. Calculate their total radiance output
3. Identify those with the highest radiance/population ratio

# Nearby country statistics

Radiance/1000 population (VIIRS 2015 annual data )



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# A practical example

# What are the usual results?

**Settlements with the highest radiance/population often:**

- use improper street lighting (excessive and/or emitting light above horizon)
- have businesses that illuminate their properties excessively
- do not switch off or use light reduction after certain night hours

# What to do next?

**Pay a visit, explain the problem and send results to:**

- your municipality
- local community
- media

**Thank you for your attention!**

**Questions?**