



Education Supports Climate Action & Space / Earth Observation

1. ESA Education Material

a. Climate Detectives Primary

- i. [From the Ground and from the sky](#)
- ii. [The Ice is Melting](#)
- iii. [Earth Under the Lid](#)

b. Climate Detectives Second Level

- i. [Highways of the Oceans](#)
- ii. [The Greenhouse Effect](#)
- iii. [Sea Ice from Space](#)

c. Videos

[Paxi - The Greenhouse Effect](#)

[Advancing weather forecasting in a changing climate](#)

[Dublin, Earth From Space](#) (part of 535 videos, last updated November 2023:

<https://www.youtube.com/playlist?list=PL221A6233C4B4DD9E>)

d. EO Browser: <https://apps.sentinel-hub.com/eo-browser>

- i. [Quick Start Education Guide](#)

- ii. EduSat examples
<https://www.edu-sat.com/remote-sensing/?lang=en>
<https://youtu.be/nQnXIGT770o?si=I7wXz-JLYOdYTKAy>
- iii. [DIY Earth Observation- Fatima Pinto](#)
- e. [Climate For Schools](#) - Teaching resource packs from the Climate Change Initiative
 - Primary
 - 1. https://climate.esa.int/media/documents/ESA_CCI_Education_Resources_Country_Under_Threat_Jul22.pdf

JC Earth & Space

- 6. *Students should be able to research different energy sources ; formulate and communicate an informed view on ways that current and future energy needs on Earth can be met.*
- 7. *Students should be able to illustrate how earth processes and human factors influence the Earth's climate, evaluate effects of climate change and initiatives that attempt to address those effects*
- 8. *Hazards and benefits of space exploration discuss future role and implications of space exploration in society.*