

Image processing for Earth Observation

Earth observation
sensors

Jan Pišl

September 2025

Digital poster

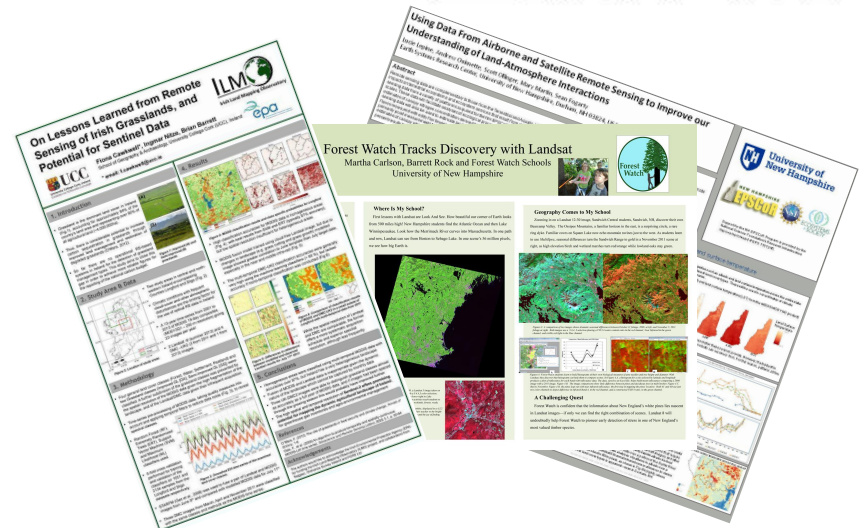
- Form a group of 3 persons
- Pick a topic (sensor and its application)



| A | B | C | D | E | F | G |
|---------|-------------------|----------------------------------|-----------|-----------|-----------|-------|
| TopicID | Sensor | Application | Student 1 | Student 2 | Student 3 | Notes |
| 1 | Landsat (history) | Overview of Landsat sensors | | | | |
| 2 | Landsat 4-9 | Long-term monitoring | | | | |
| 3 | Landsat 4-9 | Vegetation mapping | | | | |
| 4 | Landsat 4-9 | Water Resource Management | | | | |
| 5 | Sentinel-1 | Deforestation alerts | | | | |
| 6 | Sentinel-1 | Rapid disaster response | | | | |
| 7 | Sentinel-2 | Land use/land cover mapping | | | | |
| 8 | Sentinel-2 | Forestry & canopy height mapping | | | | |

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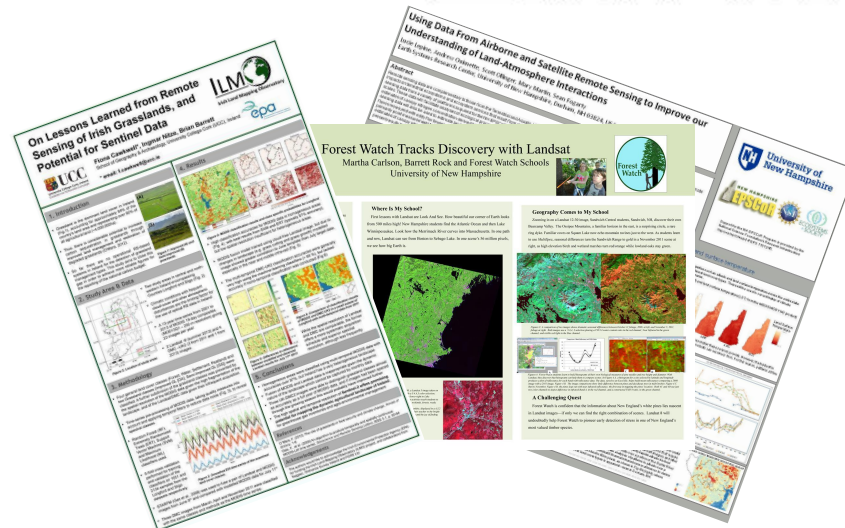
Sources: <https://www.fao.org/about/meetings/soil-biodiversity-symposium/poster-contest/>
https://forestwatch.sr.unh.edu/images/twigs_0713/fwlandsatposter_lq.jpg
https://iris.ucc.ie/live/IW_VA_PUBLICATION.POPUP?LAYOUT=N&OBJECT_ID=281186587

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You should include...

- Sensor description (e.g., resolution, bands, revisit)
- Description of the application, challenges
- What makes the sensor fit the application
- Examples (research, industry)



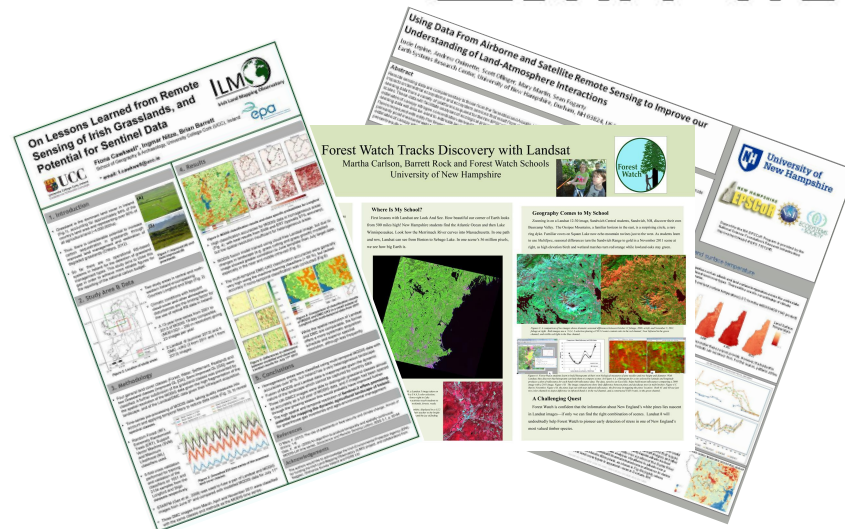
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- **Submit on Moodle (name the file TopicID_YourLastNames.pdf)**

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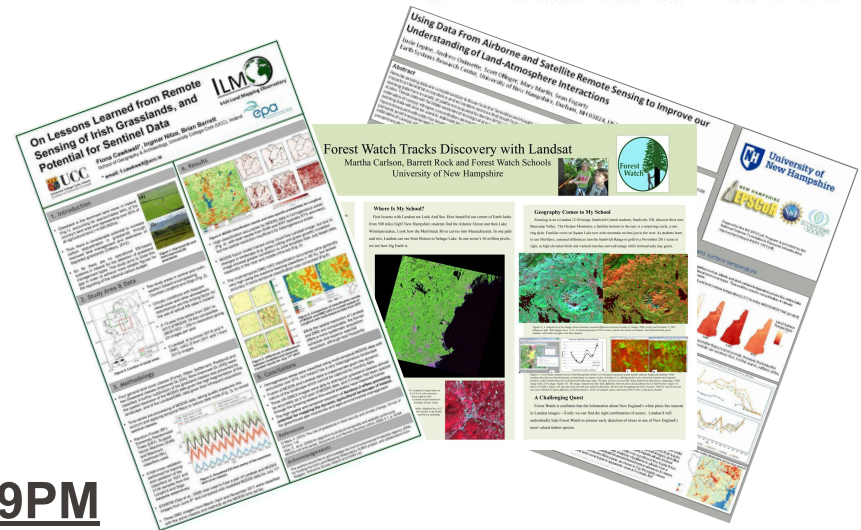
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Deadline Thursday 18th Sep, 11:59PM



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