



Welsh Government Earth Observation Program for Welsh Universities



Bristol Channel, United Kingdom – June 3, 2022



Welsh Government EO Program for Welsh Universities

Products

- Imagery sources: PlanetScope and Rapid Eye, SkySat
- PlanetScope All Time Access +Download
- RapidEye Archive All Time Access + Download + Premium Clipping
- SkySat Archive older than 6 months
- Automated Basemaps Streaming and Download*



8 licences / year

2,000.00 Users/ Campus

1B global Tile Views

Download Area Quota for PS/RE
Scenes and for Basemaps: 100M
sqkm

200,000 sqkm for global SkySat
Archive

Premium Clipping

30th of March 2025

**SR Basemaps depend on availability. No SR basemaps are generated on demand.*





Sign Up and Learn More


Sign Up for Access

- Go to [Welsh Government Earth Observation Program for Welsh Universities](#) webpage
 - Reach out to your University's POC, or
 - Request access via the form
- Reach out to Planet directly at support@planet.com with the subject line “Welsh Gov EO access request”

Find Resources

- Seven training webinar recordings covering the Program and Planet's Apps, APIs and GIS Integrations







Platform y'r
Amgylchedd Cymru
Environment
Platform Wales

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Welsh Government Earth Observation Program for Welsh Universities



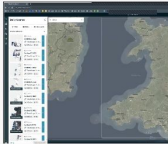


See Change.
Change the World.



Llywodraeth Cymru
Welsh Government

Working in collaboration with Planet Labs, one of the world's leading providers of satellite imagery, Welsh Government have provided an amazing opportunity for Welsh university researchers to access high resolution, high frequency earth observation data.



Agenda

- Introduction to APIs
- Download and Ingest Python (Amazon)
- Data API Overview
- API Mechanics
- Items and Assets
- Response Endpoints
- Search and Filtering
- Example Jupyter notebook and response
- Python Jupyter Notebook Demo
- Resources

There are 2,000 individual licenses available at each of the eight Welsh universities. If you wish to access the data, please liaise with the relevant Point of Contact (PoC) for your institution.

University	Point of Contact	Email Address
Aberystwyth University	Richard Lucas	mt2@aber.ac.uk
Bangor University	Maniella Smith	maniella.smith@bangor.ac.uk
Cardiff University	Andrew Emery	emeryad@cardiff.ac.uk
Cardiff Metropolitan University	Catherine Tryfona	ctryfona@cardiffmet.ac.uk
University of South Wales	Carys Evans	carys.evans@southwales.ac.uk
Swansea University	Jackie Rosette	j.a.rosette@swansea.ac.uk
University Wales Trinity St David	Mike Goodfellow-Smith	m.gsmith@uwtsd.ac.uk
Wrexham Glyndwr University	David Sprake	d.sprake@glyndwr.ac.uk





Resources

Planet University

- On-demand onboarding and advanced educational resources for all users and partners
- Ongoing live webinars
- Videos, courses, guides, tipsheets, and more

Planet Community

- Community forum for users and partners to ask questions, join groups, attend events
- Product ideation forum
- Product updates and release notes

The screenshot shows the 'Welsh Government Earth Observation Program for Welsh Universities' page. At the top, there are logos for Planet (with the tagline 'See Change. Change the World.') and the Welsh Government (Llywodraeth Cymru). The main heading is 'Welsh Government Earth Observation Program for Welsh Universities'. Below this, there is a paragraph explaining that the Welsh Government has been exploring the potential benefits of Earth Observations (EO) and developing the use of Remote Sensing technologies for many years. It mentions the potential of commercial high resolution (HR), very high resolution (VHR) and very high frequency (VHF) satellite imagery, which was tested on a range of policy areas in collaboration with partners as part of a pilot project. Working closely with academic partners as part of the wider development of EO in the Welsh Government as well as during this pilot, proved to be invaluable. Another paragraph states that the Welsh Government is opening up the license to expert users and researchers in academia, to fully test and research the value of this resource and to explore as widely as possible use cases. A third paragraph mentions that all the Welsh Government asks for continued engagement with researchers to seek feedback and User Cases, to support a long-term strategy for the use of Earth Observation in Wales. At the bottom, there is a section titled 'How to Apply for Data Access' which states that customers interested in accessing the data are requested to get in touch with thamesee@planet.com or their respective Point of Contact (POC) at their University. Below the text are four image thumbnails with captions: 'Welsh Universities - Training Courses', 'Welsh Universities Webinars', 'Welsh Universities Data Access Overview', and 'Welsh Universities Community Group'.

The screenshot shows the Planet Community homepage. At the top, there is a navigation bar with the Planet logo, 'Community', and links for 'FORUM', 'IDEAS', 'PRODUCT ANNOUNCEMENTS', 'EVENTS', 'GROUPS', 'CREATE A POST', and 'Login'. The main heading is 'Welcome to the Planet Community!'. Below this is a search bar with the placeholder text 'Search the Planet Community'. The page features three main content cards: 'Forum' (with a speech bubble icon and the text 'Start discussions, ask questions, get answers'), 'Ideas' (with a lightbulb icon and the text 'Submit ideas and suggestions to improve Planet's Data and Tools'), and 'Product Announcements' (with a checkmark icon and the text 'Read the latest news from our product team'). At the bottom, there are two buttons: 'Community Introductions' and 'Community Guidelines'.





Selected Use Cases

Carbon Stocks
Monitoring

Early warning protocols for
anticipatory action ahead of climate
hazards

Urbanization of
the Global South

LandScape
monitoring of
industrial areas

Assessing seasonal and
drought responses of
Amazon forests

For demonstrating the
use of RS via lectures
and practical

Urban areas and heat islands

Computing Leaf Area
Indexes

ML-AI Algorithms testing

Teaching RS of Environmental
Hazards

Assessing drought damage to
trees in a particular state of
Germany

Assess the extent of
montane scrub coverage in
Scotland and Norway

Landscape monitoring
for Coal Tips and
abandoned Mines

+Publications

Aberystwyth University

1. [National Crop Mapping Using Sentinel-1 Time Series: A Knowledge-Based Descriptive Algorithm](#)
2. [The Earth Observation-based Anomaly Detection \(EOAD\) system: A simple, scalable approach to mapping in-field and farm-scale anomalies using widely available satellite imagery](#)
3. [Surface composition of debris-covered glaciers across the Himalaya using linear spectral unmixing of Landsat 8 OLI imagery](#)
4. [160 glacial lake outburst floods \(GLOFs\) across the Tropical Andes since the Little Ice Age](#)
5. [RadWet: An Improved and Transferable Mapping of Open Water and Inundated Vegetation Using Sentinel-1](#) **NEW!**

Bangor University

6. [Climate change and Welsh catchments: implications for hydrological regime, water quality and water abstraction](#)
7. [Recent large-inland-lake outbursts on the Tibetan Plateau: processes, causes, and mechanisms](#) **NEW!**

Cardiff University

8. [Estimation of river flow using CubeSats remote sensing](#)
9. [Decrease in volcano jet noise peak frequency as crater expands](#)
10. [On advances, challenges and potentials of remote sensing image analysis in marine debris and suspected plastics monitoring](#) **NEW!**

Swansea University

11. [Modeling the Spatial Distribution of Acacia decurrens Plantation Forests Using PlanetScope Images and Environmental Variables in the Northwestern Highlands of Ethiopia](#)
12. [Climate change and Welsh catchments: implications for hydrological regime, water quality and water abstraction](#)



Welsh Government EO Program for Local Authorities

Products

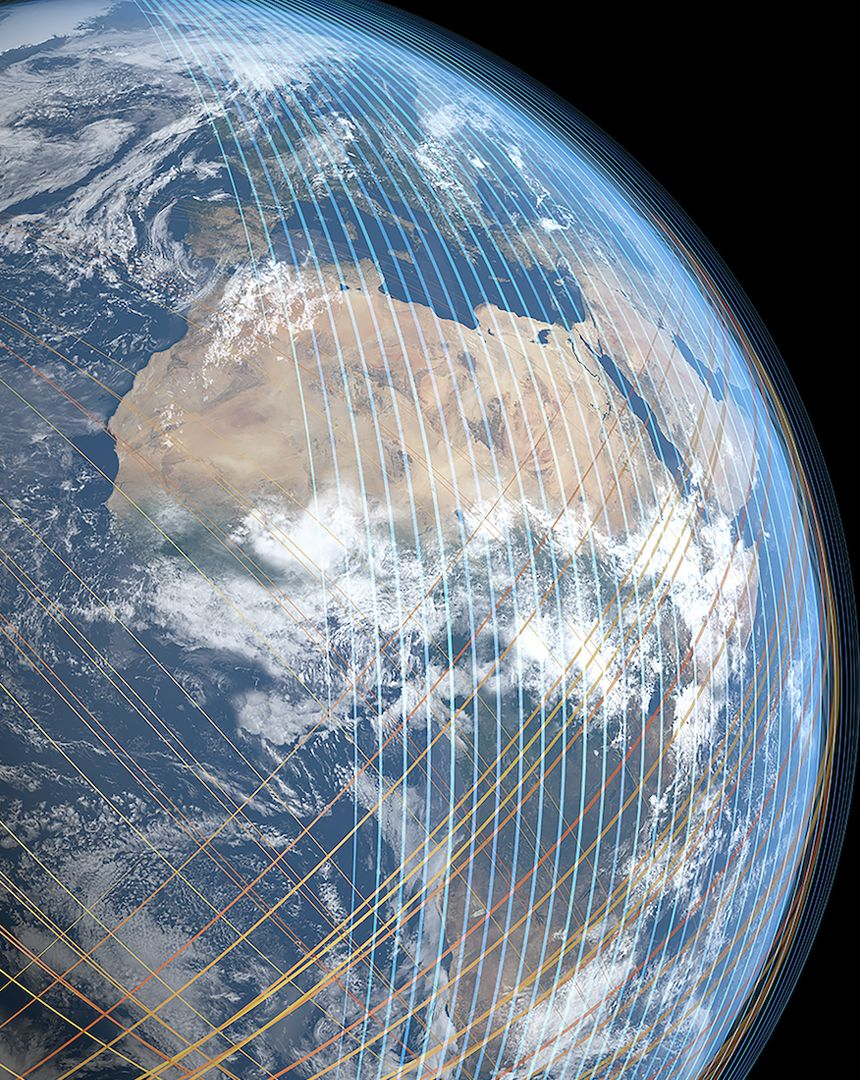
- PlanetScope, Rapid Eye, SkySat
- Wales territory only
- Quota limits to be determined upon access granting

Who is eligible?

- Cities and Councils
- Counties and County boroughs

Request Access

- Reach out to Claire Horton, Geospatial and Earth Observation Manager-Welsh Government at claire.horton@gov.wales with the subject line “Welsh Gov EO access request”



Thank You.



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