

# Field Spectroscopy Facility

Natural Environment Research Council

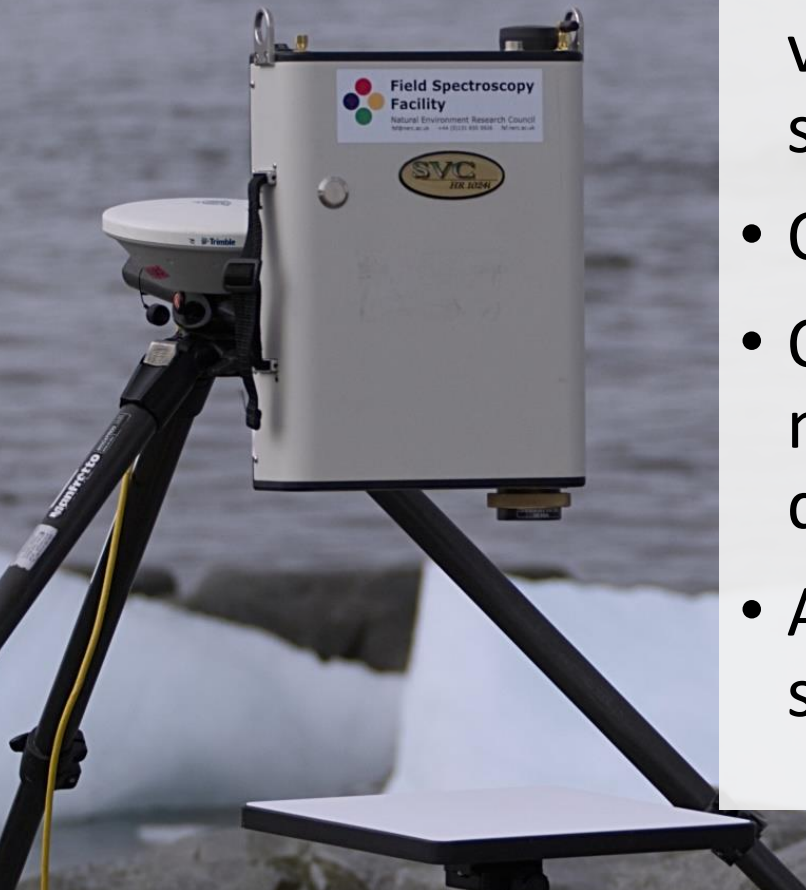
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# The NERC Field Spectroscopy Facility



- Provides support to UK research through free equipment loans as well as sensor calibration, validation and characterisation services
- One to one training
- Optimising equipment and methodologies for use under different scenarios
- A hub for advice and technical support



# Our Instruments: Field Spectrometers

Use our optical field spectrometers to build models to remote sense different physico-chemical traits and/or validate satellite/airborne/UAV spectral imagery

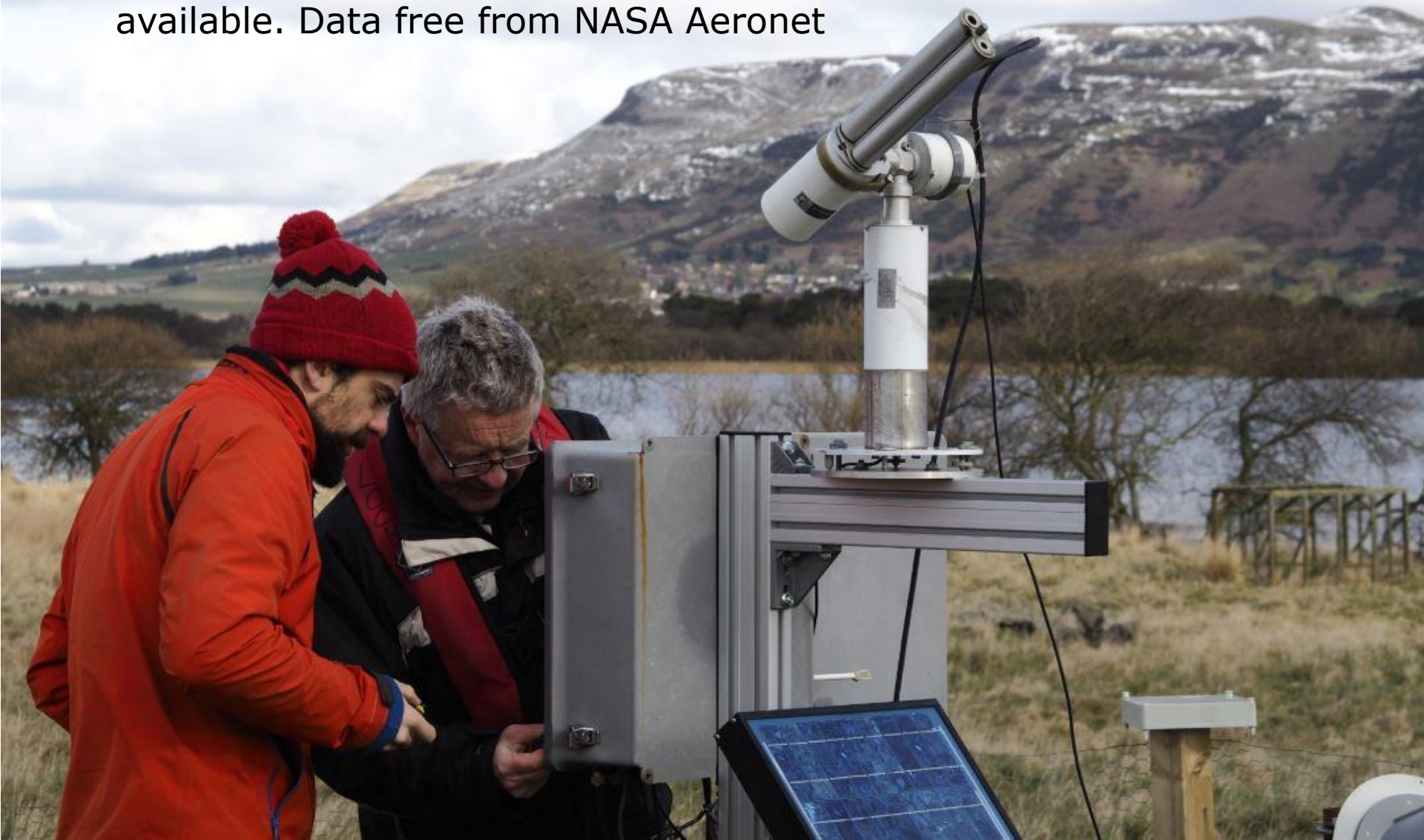


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# Our Instruments: Sunphotometers

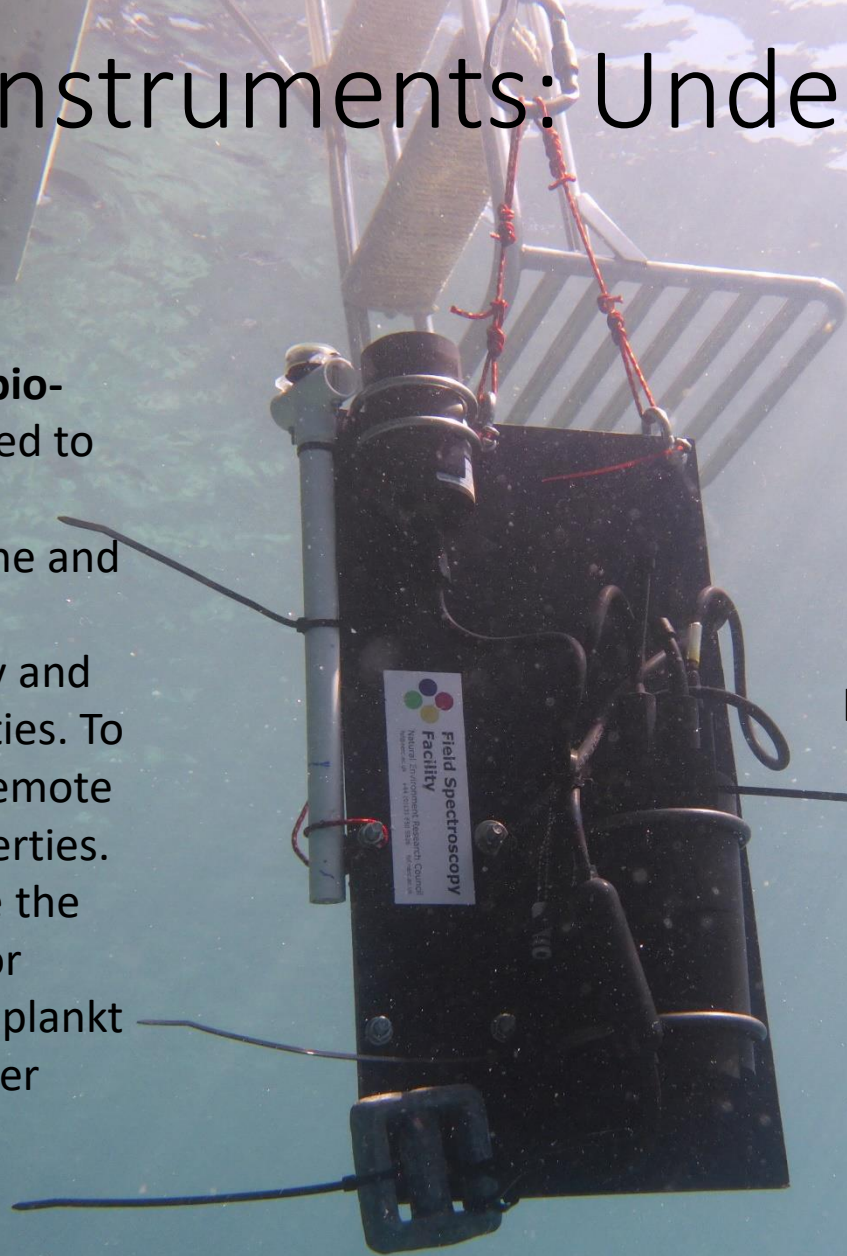
**Sunphotometers** are used to remove aerosol effects from remote sensing imagery. We have hand held and automatic versions available. Data free from NASA Aeronet





# Our Instruments: Underwater

Our **underwater bio-optical suite** is used to characterise the influence of marine and freshwater biology/chemistry and its optical properties. To build models to remote sense these properties. Or to characterise the light conditions for algae/coral/phytoplankton within the water column.



Walz Diving-PAM Underwater  
Fluorimeter

Wetlabs AC-S underwater  
hyperspectral inherent optical  
water properties

Sea-Bird Hyper OCR  
Hyperspectral Radiometers

@Sofie\_Voerman  
Beau Marsh




# Drones!

- Hyperspectral 400-2500 (vegetation and mineral mapping) with LiDAR
- Portable Sentinel 2 Matched Multispectral Camera







To apply visit our website:  
[fsf.nerc.ac.uk](http://fsf.nerc.ac.uk)

**Add us to your NERC Grant Applications!**

**Application deadlines:**

**1<sup>st</sup> June for Fieldwork October-February**

**1<sup>st</sup> November for fieldwork March-September**

Speak to us if you want to know more:  
[fsf@nerc.ac.uk](mailto:fsf@nerc.ac.uk)