



COSMOS-UK

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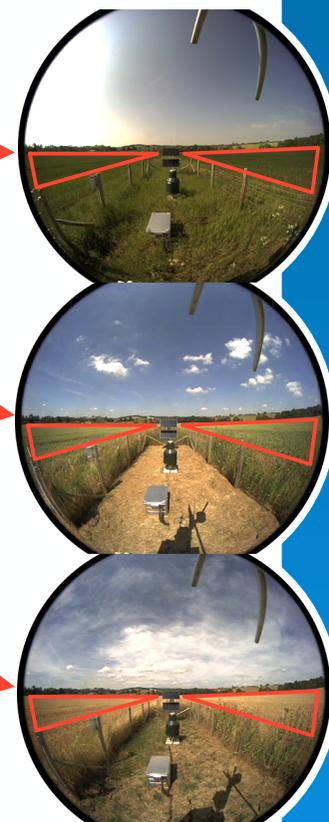
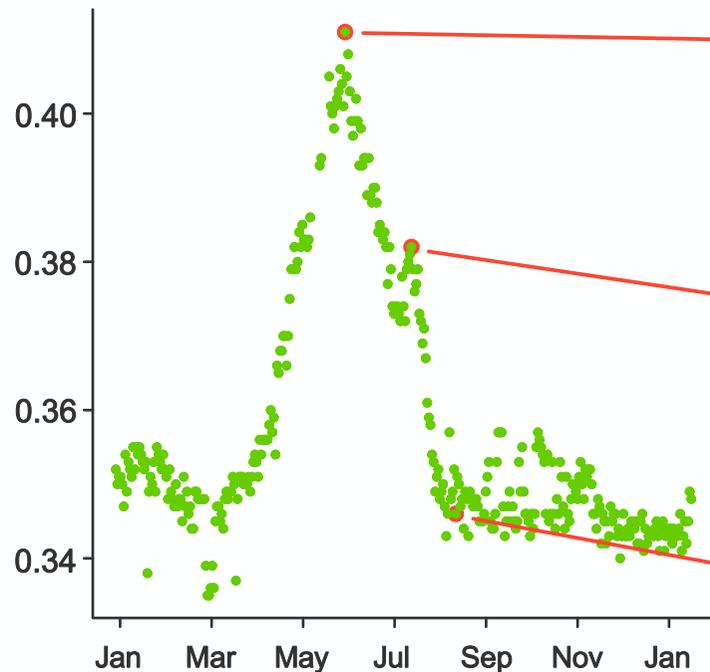
Now delivers RGB data from across the network

May 2021

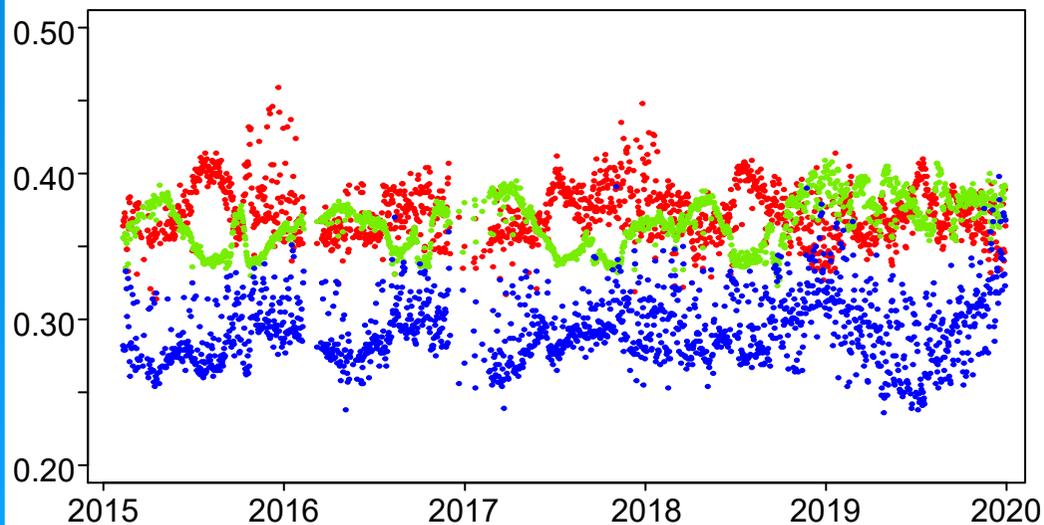
COSMOS-UK is a UK network of around 50 environmental monitoring sites located on different land types. Each site includes a camera which can monitor phenology in the surrounding area. Sites capture and send five photos per day.

The photos from the wide-angle lenses are masked to isolate areas within which red, green, and blue colour values are extracted to reveal seasonal changes as crops grow and ripen (right), and year-to-year changes resulting from crop rotation (below).

Proportion of the colour green during 2018 at Loddington



Proportion of red, green and blue at Bunny Park



Potential uses

Understanding seasonal changes in crops and land cover



Investigating effect on terrestrial ecosystems and feedback cycles



Assessing weather, e.g. identifying snow cover



Have ideas?
Get in touch!

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