WUSAT-3 – A VLEO Proof-of-Concept Wildlife-Tracking Technology Mission

WUSAT-3 Satellite Wildlife Monitoring Technology VLEO via ESA FYS Nanoracks/ISS

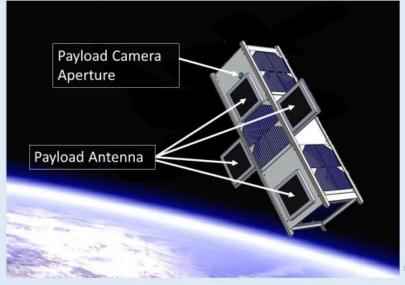
William Crofts Julia Hunter-Anderson

The WUSAT-3 Payload

The Payload Instrument (Concept)

WUSAT-3's external payload components are on the nadir facing side of the satellite.

USA



The WUSAT-3 Mission

Current Issues with tracking wildlife from Space:-

There are many species - particularly small birds that researchers/conservationists would like to track, but they cannot carry the large/heavy GPS tags. Developing small, light tags, would be a major boost to biodiversity research



WUSAT



Endangered Barn Swallow © Stephan Trösch

Payload concept: The Payload Antenna identifies a tag signal on the Earth's surface, this triggers the camera to take an image. An offset of the tag signal, calculated for each antenna, provides coordinates for the location of the signal source within the image.

