

Agenda

New Sensor Highlight: ECOSTRESS

Dates: Nov 2019

Type: Lightning Webinar

End-Users: Local, regional, state, federal, and non-governmental organizations involved in land management, drought monitoring, and agricultural applications

Lead Trainer: Amber McCullum

Trainers: Amber McCullum + Juan Torres-Perez, + guest speaker (Christine Lee)

Description: In 2018, NASA launched the ECOSTRESS sensor onboard the International Space Station (ISS) to identify how plants use water from space. This mission aims to address scientific and land management questions related to vegetation responses to changes in water availability, drought detection, and agricultural water use. This new sensor produces multiple data products, such as land surface temperature, evapotranspiration (ET), water use efficiency, and evaporative stress. This training aims to provide an overview of these data products and access and provide case-study examples for how the data can be used for decision-making among the land management community. This one-session technology introduction aims to provide participants with the skills needed to access and understand these emergent data.

Motivation: As tools and technology continue to evolve rapidly, this training would meet the needs of ARSET's participants by providing a short introduction to a newly developed tool. This would be a new type of training for ARSET and has been identified as a need during the annual retreat and through conversations with training participants. This training could serve as a test-case for future rapid training responses to requests from other NASA groups or end-users.

Target Audience: Local, regional, state, federal, and non-governmental organizations involved in land management, drought monitoring, and agricultural applications

Satellites and Sensors: ECOSTRESS