Intro for episode page: Meet the EROS Mendenhall Fellow who is working on innovative ways to use algorithms and Landsat data to forecast drought.

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**Eyes on Earth Episode 111 – Mendenhall Fellow’s Drought Forecasting**

**Summary**: In this episode of Eyes on Earth, we spoke to Mikael Hiestand, a Mendenhall Postdoctoral Fellow. Using algorithms developed at EROS, Mikael is working on near-term drought forecasting. With synthetic Landsat data, he found that predicting evapotranspiration could be used as a means of drought prediction and monitoring.

The Mendenhall Fellowship allows people who have just completed their PhD an opportunity to work on research with USGS scientists and prepare for their career.

**Guest**:

Mikeal Hiestand (USGS Mendenhall Postdoctoral Fellow and Research Physical Scientist)

**Host**: Tom Adamson (contractor for USGS EROS)

**Producer**: Tom Adamson (contractor for USGS EROS)

**Release date**: Monday, January 22, 2024

**More about the Mendenhall Fellowship and Evapotranspiration:**

* [USGS Mendenhall Research Fellowship Program](https://www.usgs.gov/centers/mendenhall-research-fellowship-program)
* [LCMAP: Continuous Change Detection Classification (CCDC) Products](https://www.usgs.gov/centers/eros/science/usgs-eros-archive-lcmap-continuous-change-detection-classification-ccdc)
* [Landsat Provisional Actual Evapotranspiration](https://www.usgs.gov/landsat-missions/landsat-provisional-actual-evapotranspiration)

**Related Episodes:**

* [Meet the Mendenhall Fellow](https://www.usgs.gov/centers/eros/eyes-earth-episode-22-meet-mendenhall-fellow)
* [Assessing America’s Cropland](https://www.usgs.gov/centers/eros/eyes-earth-episode-8-assessing-americas-cropland)
* [Evapotranspiration](https://www.usgs.gov/centers/eros/eyes-earth-episode-17-evapotranspiration)

**Keywords**: Earth Resources Observation and Science (EROS) Center, Eyes on Earth, remote sensing, Mendenhall Fellowship, postdoc, evapotranspiration, CCDC, SSEBop, synthetic Landsat data, drought, agriculture

Logos:

<https://cms.usgs.gov/media/images/eoe-episode-111-mendenhall-fellows-drought-forecasting-thumbnail-image>

<https://cms.usgs.gov/media/images/eoe-episode-111-mendenhall-fellows-drought-forecasting-homepage-image>

**Homepage descriptor**: In this episode of our remote sensing podcast, we talk to Mikael Hiestand, a Mendenhall Postdoctoral Fellow, about his work using algorithms developed at EROS to see if synthetic Landsat data can be used to forecast drought.

**Topics this could go in:** Agriculture, Data, EROS, Remote Sensing

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