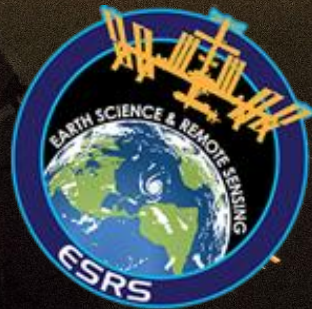


Utilizing ArcPro with Astronaut Photography of Earth

Andrea Meado, Geologist

Jacobs Technology/NASA Johnson Space Center





Earth Science and Remote Sensing
NASA Johnson Space Center

eol.jsc.nasa.gov



Disaster imagery requests

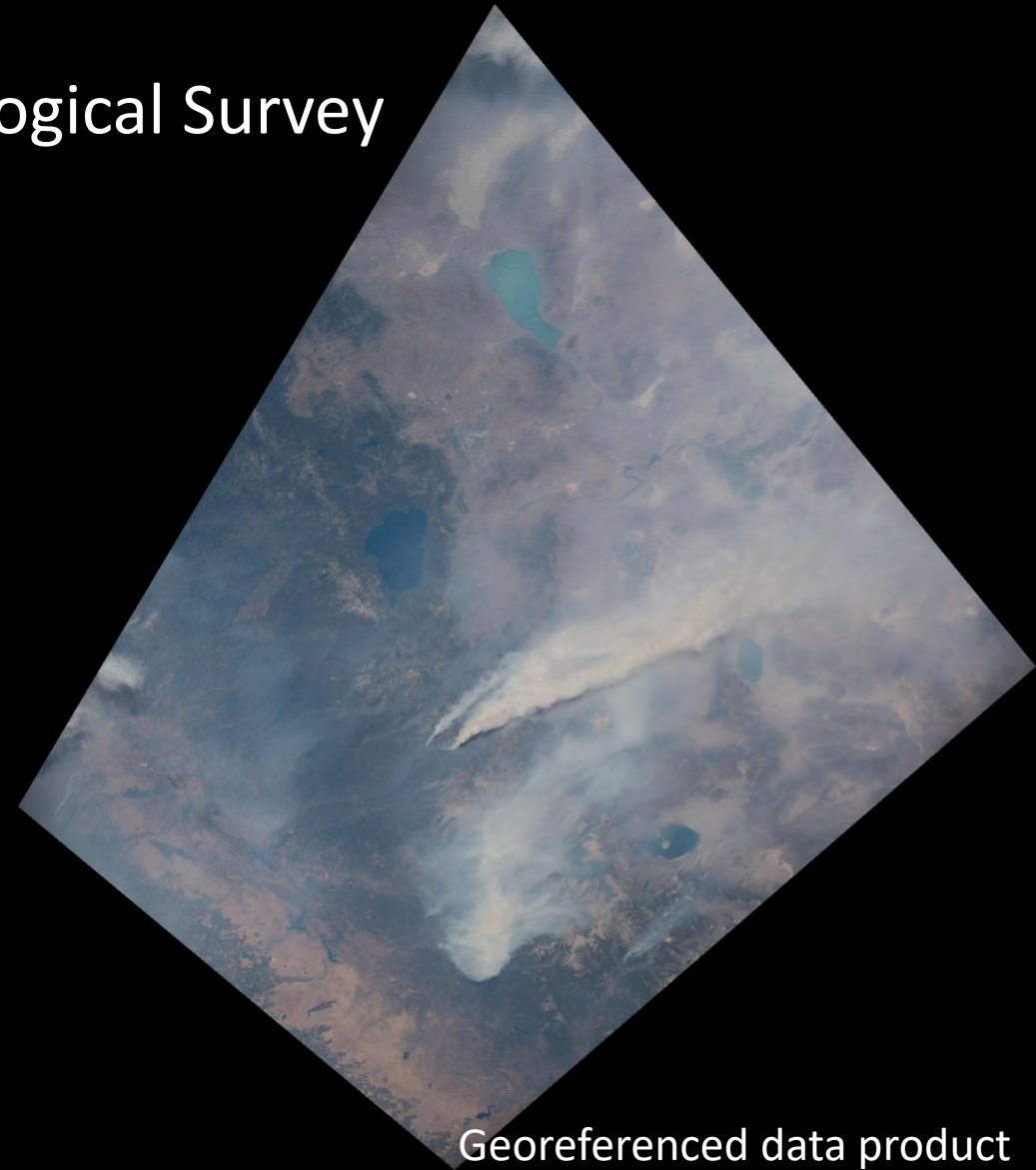
Fires: California fire season 2018

Collecting and delivering disaster imagery

- Raw camera files georeferenced
- Georeferenced imagery delivered to U.S. Geological Survey



ISS056-E-129891, 116mm



Georeferenced data product

Flooding in Kuwait



**Georeferenced astronaut
photo of Caspian Sea**



**Cloudmask created by
machine learning**




Cloud pixels = NODATA





Cloud pixels removed

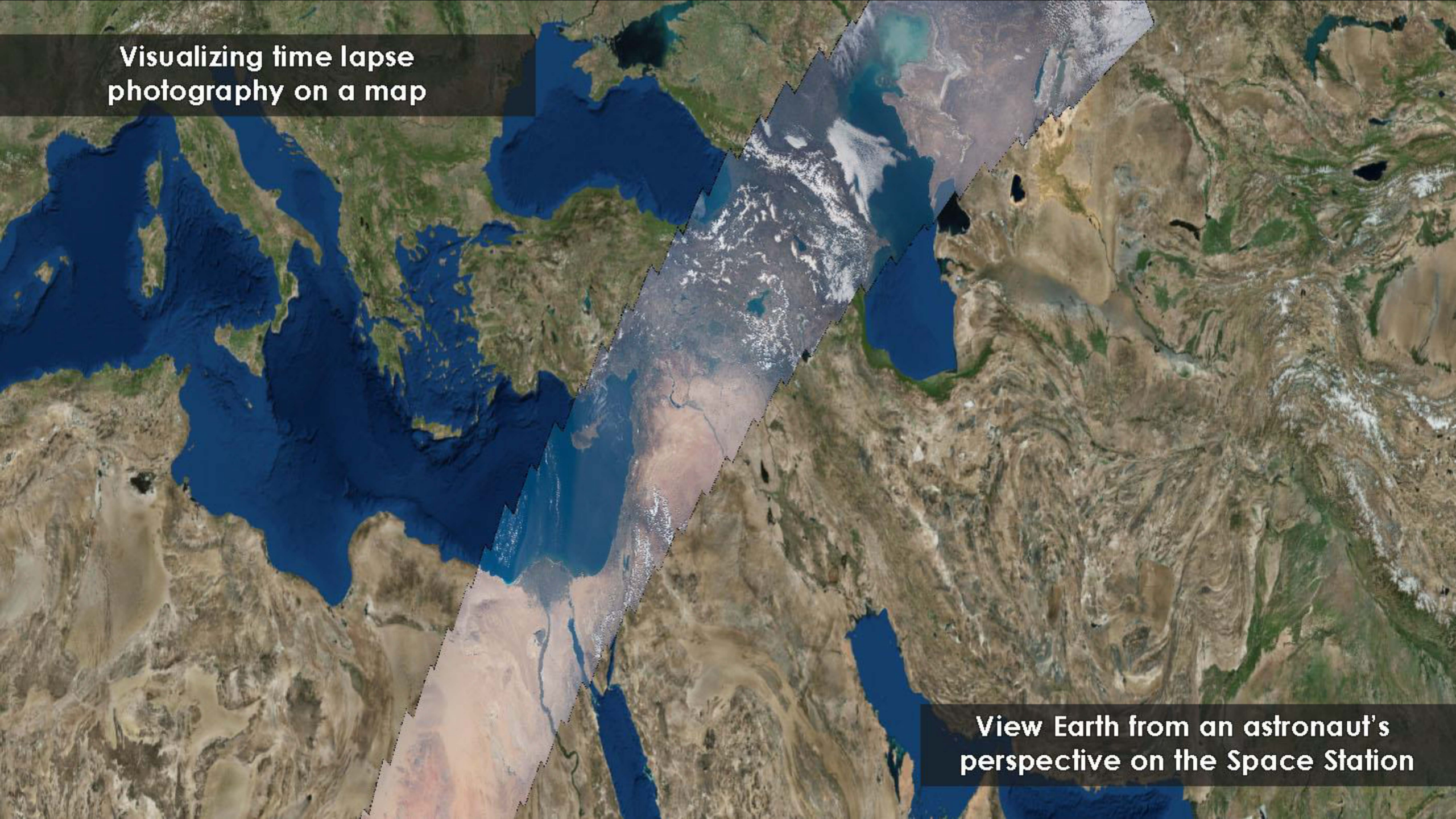


Supervised classification
of land and water



Land and water
pixels classified

**Visualizing time lapse
photography on a map**



**View Earth from an astronaut's
perspective on the Space Station**

Gateway to Astronaut Photography of Earth



<https://eol.jsc.nasa.gov/>



SEARCH PHOTOS COLLECTIONS BEYOND THE PHOTOGRAPHY CREW EARTH OBS REQUEST NEW IMAGERY LATEST ISS IMAGERY TOOLS FAQ



Over 3 million images of Earth taken by astronauts