

Supporting Global and Regional Validate Site (GReVS) System Development for VIIRS Imagery Quality Evaluation Kaley Du

Objectives

- Support GReVS development by developing JavaScript codes for mapping/projecting VIIRS images to Lat/Lon box, pixel registration, and showing the pixel coordinate with the mouse pointer
- Engineer color scale map for VIIRS I321 composite color and Day/Night band images to reveal fine details
- Combine higher resolution (30-m) Landsat tiles with VIIRS imagery to show a multi-scale zoom-in view of the region.

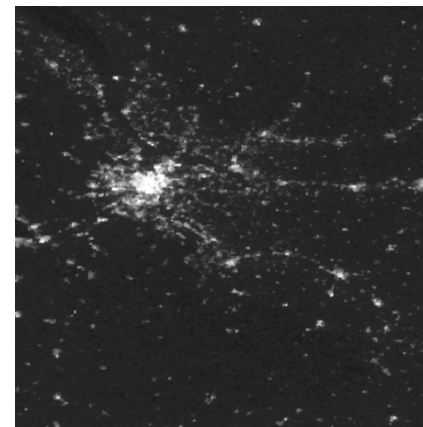
Results

- Fixed issue with getting coordinates with mouse
- Used VIIRS to track fire in France. Can depict with I321 color composite, infrared I4 band, and Day Night Band
- Developed prototype tool to combine VIIRS and Landsat Imagery

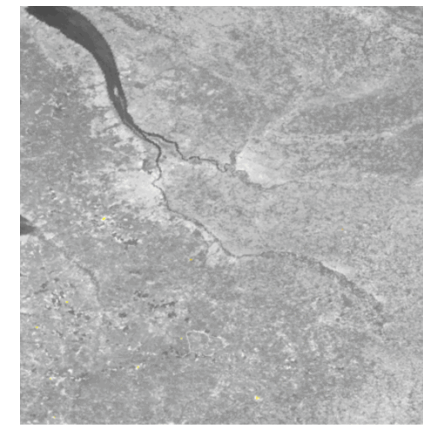
July 12 to July 16 Fire (France) by NOAA-20 VIIRS
Day Night



I123



DNB



I4



AI & DS Geo GSoc

VIIRS and Landsat Multi-scale

Developed with [GDAL2Tiles](#),
[Leaflet](#)