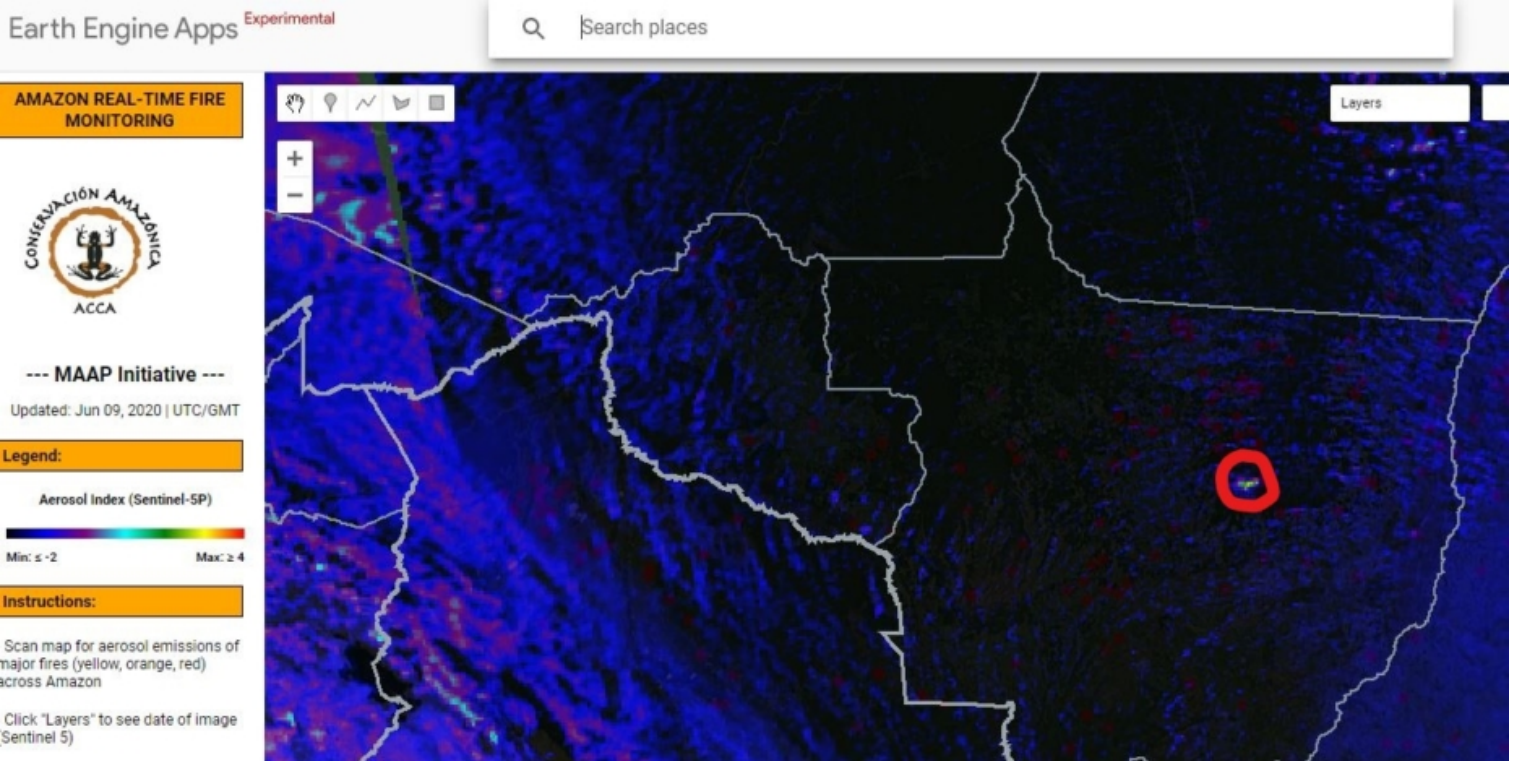


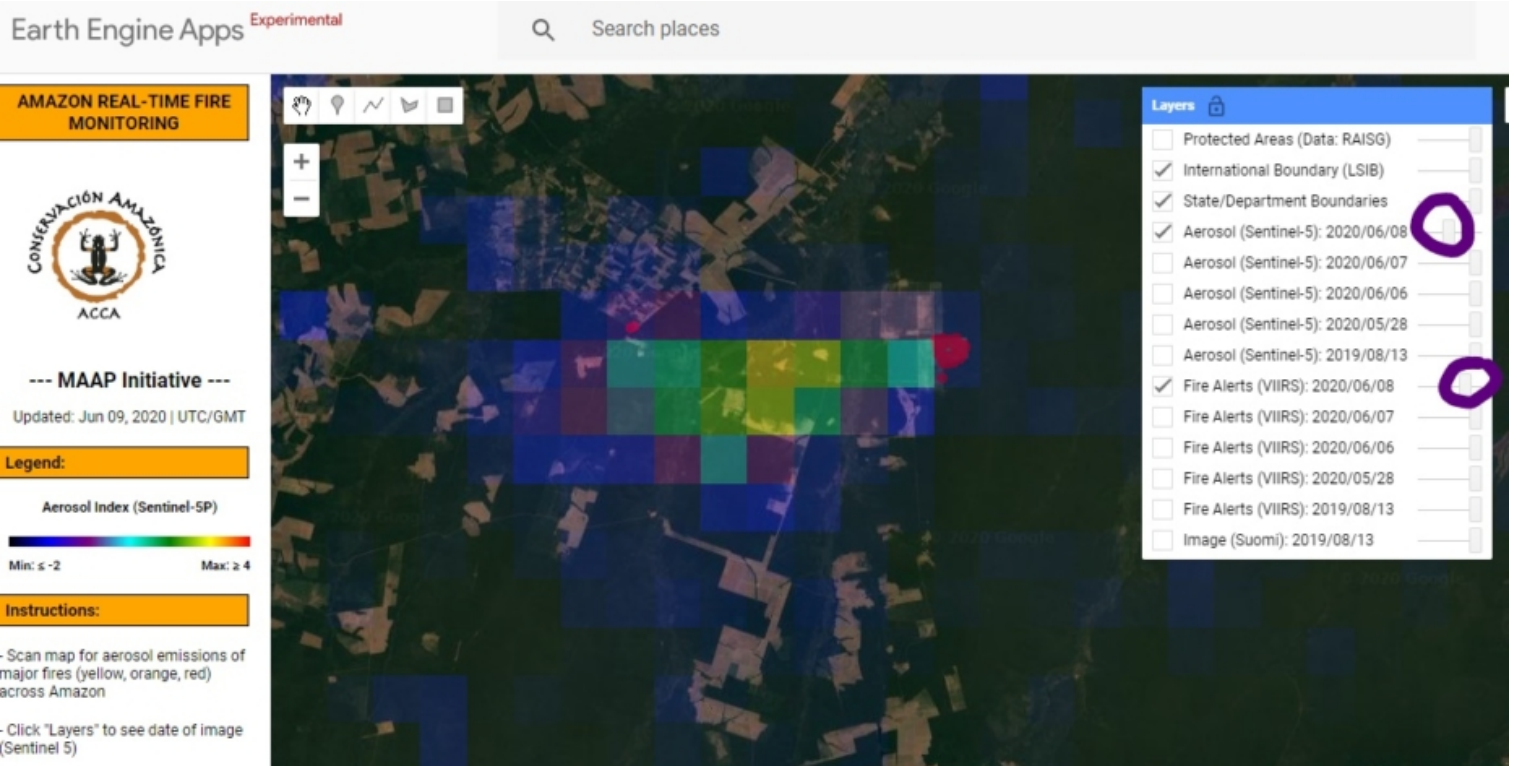
MAAP: Amazon Fire Tracker #2 - Brazil, June 8 2020

As presented in [MAAP #118](#), Amazon Conservation launched a [real-time fire monitoring app](#) that specializes in detection of elevated aerosol emissions from burning Amazon fires. As detailed below, the app detected the second major 2020 fire on June 8, 2020 in Mato Grosso, Brazil.

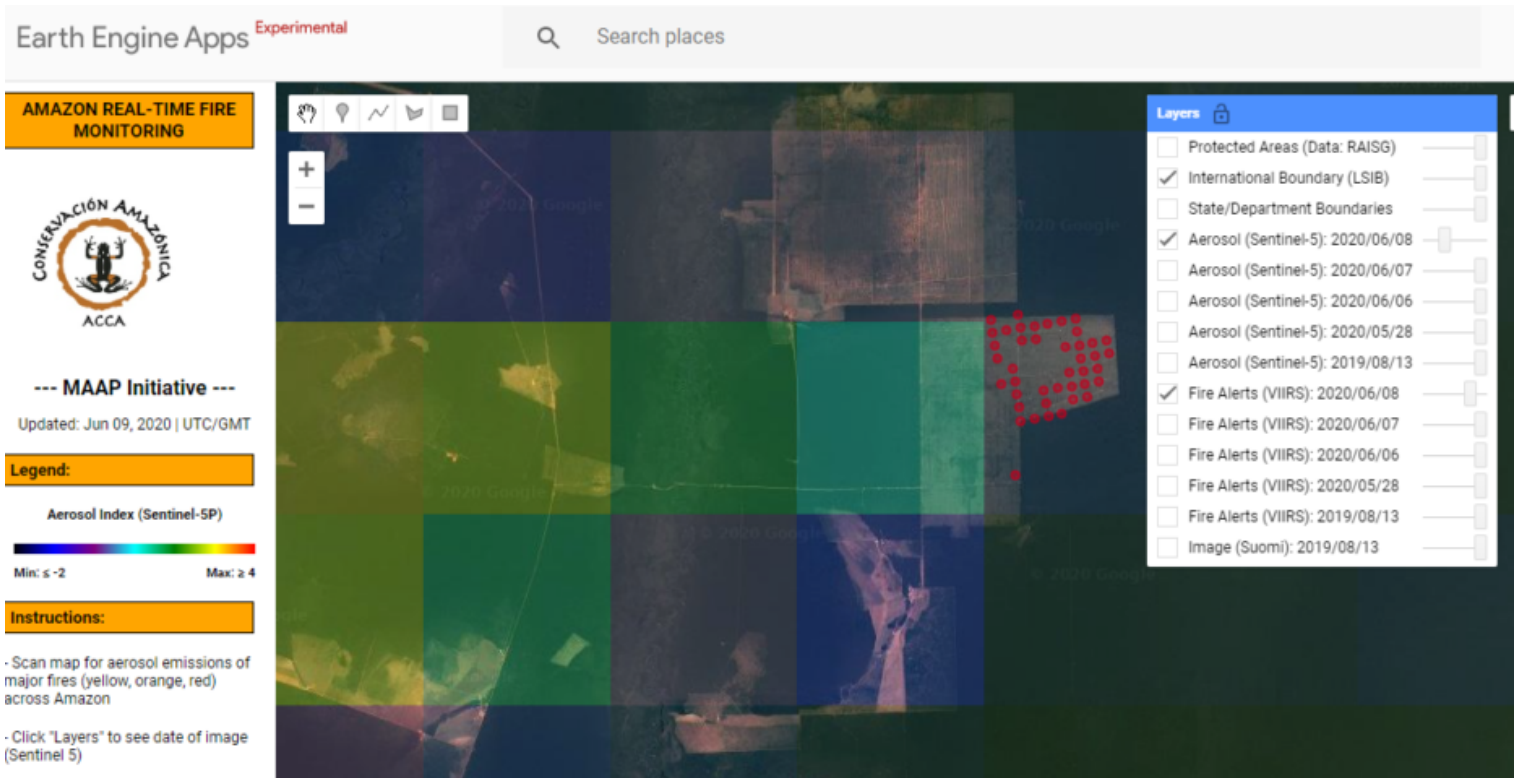
Step 1. Detection of elevated emissions in the southeastern Brazilian Amazon (Mato Grosso).



Step 2. Zoom in on the emissions, adjust the transparency to see the underlying fire alerts that indicate the fire location.




Step 3. Zoom in again to see precisely the fire location and obtain coordinates.



Earth Engine Apps Experimental Search places

AMAZON REAL-TIME FIRE MONITORING


 --- MAAP Initiative ---
 Updated: Jun 09, 2020 | UTC/GMT

Legend:

Aerosol Index (Sentinel-5P)

Min: -2 Max: 4

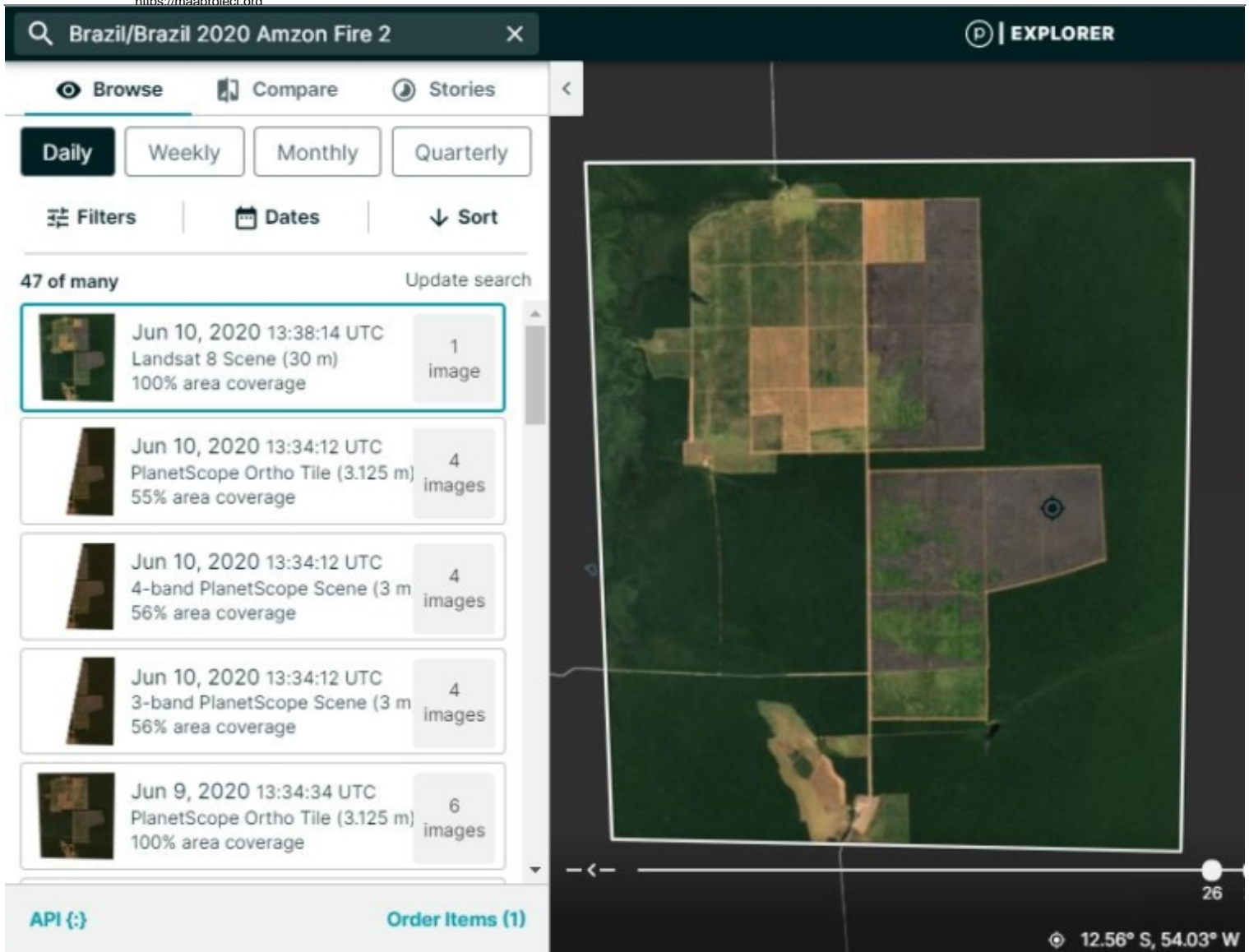
Instructions:

- Scan map for aerosol emissions of major fires (yellow, orange, red) across Amazon
- Click "Layers" to see date of image (Sentinel 5)






Layers

- Protected Areas (Data: RAISG)
- International Boundary (LSIB)
- State/Department Boundaries
- Aerosol (Sentinel-5): 2020/06/08
- Aerosol (Sentinel-5): 2020/06/07
- Aerosol (Sentinel-5): 2020/06/06
- Aerosol (Sentinel-5): 2020/05/28
- Aerosol (Sentinel-5): 2019/08/13
- Fire Alerts (VIIRS): 2020/06/08
- Fire Alerts (VIIRS): 2020/06/07
- Fire Alerts (VIIRS): 2020/06/06
- Fire Alerts (VIIRS): 2020/05/28
- Fire Alerts (VIIRS): 2019/08/13
- Image (Suomi): 2019/08/13

Step 4. Check the satellite imagery archive in Planet Explorer. Here is a Landsat image (30 meter resolution) showing the fire burned around 3,000 hectares (7,400 acres) of an area deforested in July 2018. Note that [MAAP #113](#) made the important discovery that most of the 2019 Brazilian Amazon fires were burning recently deforested areas (and not uncontrolled forest fires).



The screenshot displays the MAAP Explorer interface. The search bar at the top contains 'Brazil/Brazil 2020 Amzon Fire 2'. Below the search bar are navigation options: 'Browse', 'Compare', and 'Stories'. There are also filters for 'Daily', 'Weekly', 'Monthly', and 'Quarterly' views, along with 'Filters', 'Dates', and 'Sort' options. A list of search results is shown, with the first result selected:

Thumbnail	Date and Time	Image Type	Resolution	Coverage	Count
	Jun 10, 2020 13:38:14 UTC	Landsat 8 Scene	30 m	100% area coverage	1 image
	Jun 10, 2020 13:34:12 UTC	PlanetScope Ortho Tile	3.125 m	55% area coverage	4 images
	Jun 10, 2020 13:34:12 UTC	4-band PlanetScope Scene	3 m	56% area coverage	4 images
	Jun 10, 2020 13:34:12 UTC	3-band PlanetScope Scene	3 m	56% area coverage	4 images
	Jun 9, 2020 13:34:34 UTC	PlanetScope Ortho Tile	3.125 m	100% area coverage	6 images

At the bottom of the search results, there are links for 'API (-)' and 'Order Items (1)'. The main image viewer on the right shows a satellite image of a forested area with a fire scar, overlaid with a grid. The coordinates at the bottom right are 12.56° S, 54.03° W.

Coordinates

[lat: -12.57, lon: -54.06](#)

References

Gorelick, N., Hancher, M., Dixon, M., Ilyushchenko, S., Thau, D., & Moore, R. (2017). Google Earth Engine: Planetary-scale geospatial analysis for everyone. *Remote Sensing of Environment*.

<https://earthengine.google.com/faq/>

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Finer M, Villa L (2020) Amazon 2020 Fire Tracker #2 - Brazil, June 8. MAAP.