



Product Benefits

- Useful for fire monitoring during both day and night, even for fires that are much smaller than the pixel size.
- Provides qualitative information on fire intensity (temperature) —
 cooler fires appear more red, hotter fires appear yellow to white.
- During the day, ice and water clouds are seen in the image in different colours (former have green and latter have blue shades).

















Product Limitations

- Fires are seen only in cloud-free areas.
- Smoke is usually not detectable with this RGB (unless very thick with larger particles).
- Burnt areas are not well seen.
- Clouds are not seen at night.
- Dry regions and hot land surfaces may both appear in red hues.
- Red component can saturate at a relatively low temperature, false alarms can appear as red pixels.

Ref: https://user.eumetsat.int/resources/user-guides/fire-temperature-rgb-quick-guide

















Quick Guide













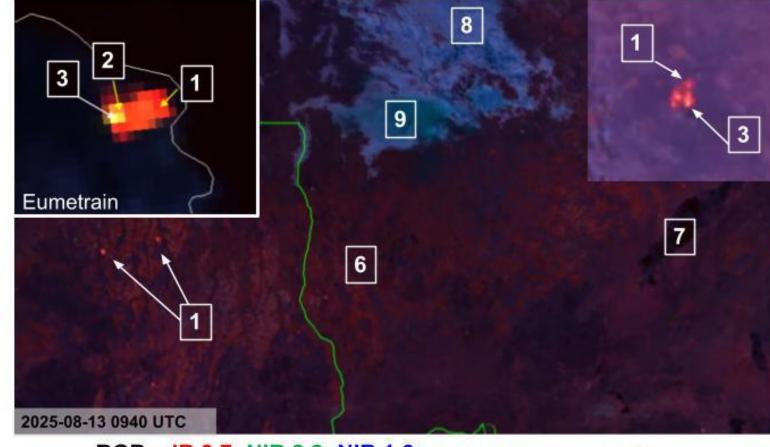




Fire Temperature RGB

Interpretation

- 1 Warm fire, Hot spot
- 2 Very warm fire
- 3 Hot fire
- 4 Extreme intense fire
- 5 Burn Scars
- 6 6 Land surface (Day/Night)
- 7 Water, snow, ice
- 8 Water cloud (day)
- 9 Ice cloud (day)



RGB = IR 3.7; NIR 2.2; NIR 1.6











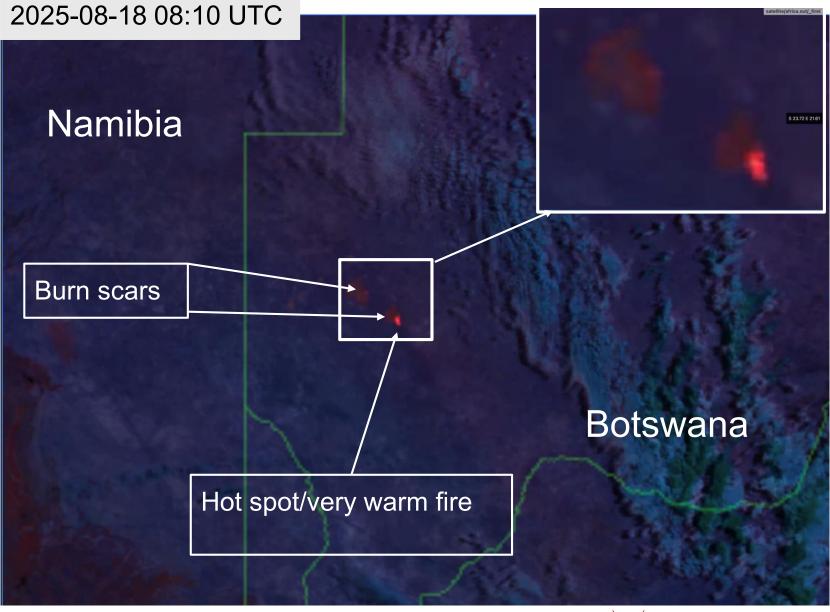




























Animation

















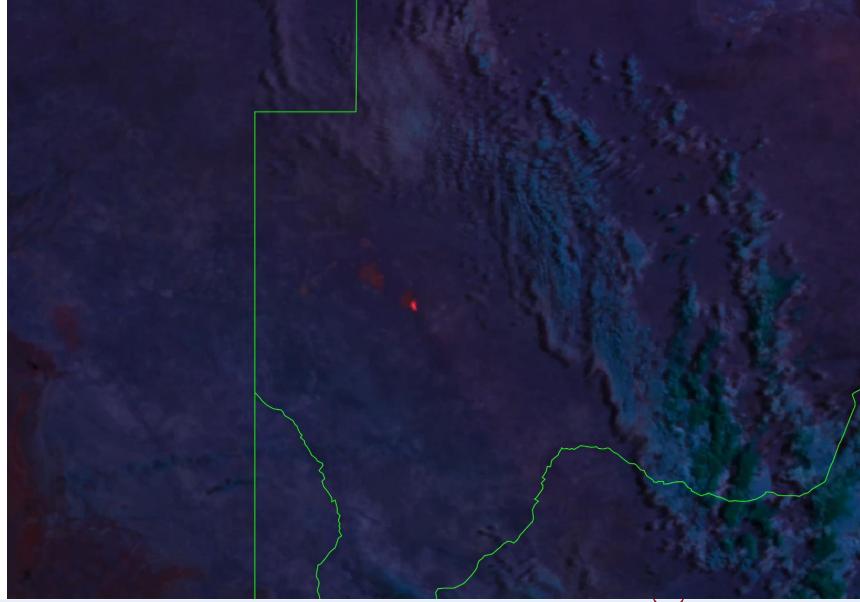


















Image Comparison









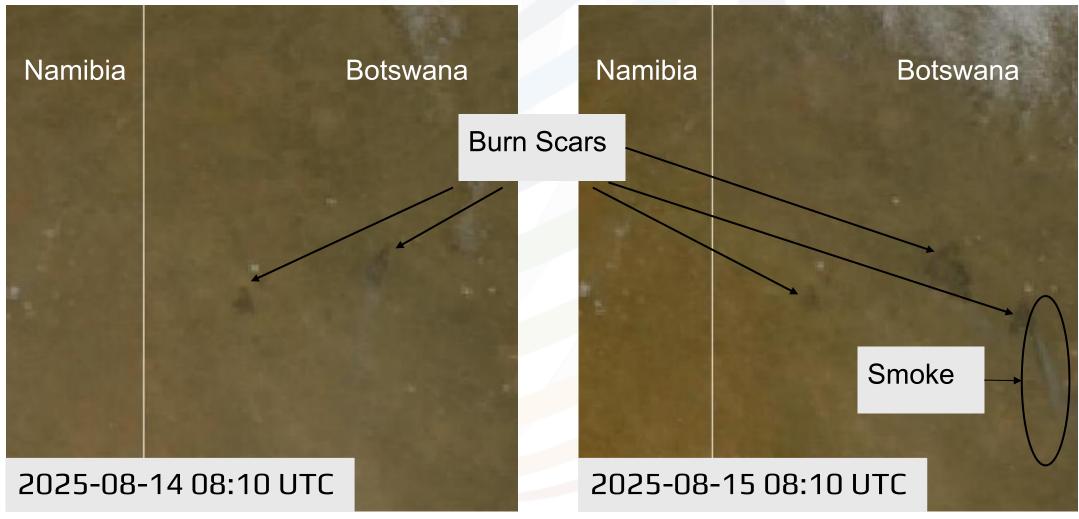








True Colour RGB











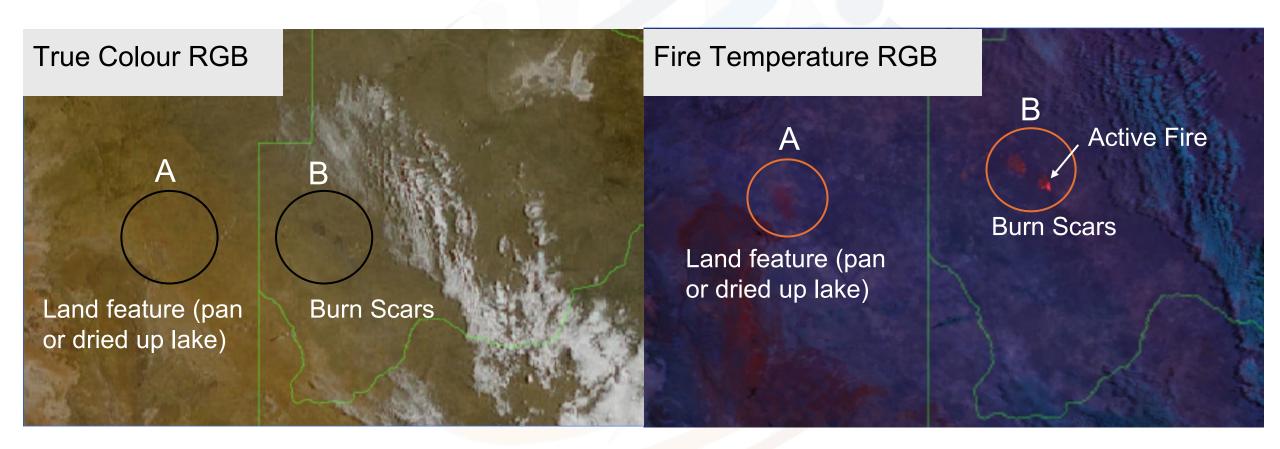








Product Comparison



















Animation







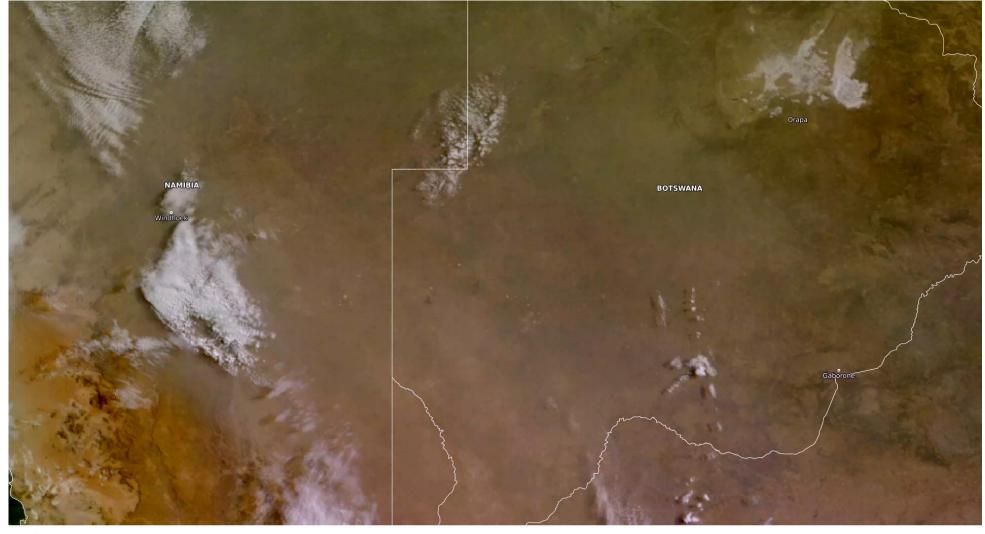














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Practice applying your new knowledge by answering the questions on the Moodle page













