FireSENS evaluation of the 2023 Greece Wildfires

Strengthening Wildfire Response

Enhance warning and decision-making systems during wildfire events by identifying the risk of adverse health outcomes at national, regional, state, county, city, or local levels

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FireSENS
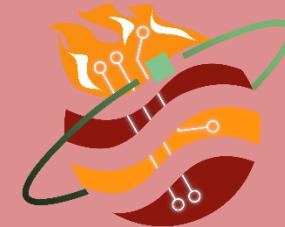
Enhancing Wildfire Health Risk Assessment with Earth Observation

Credit: European Union, contains modified Copernicus Sentinel data 2024, processed with EO Browser
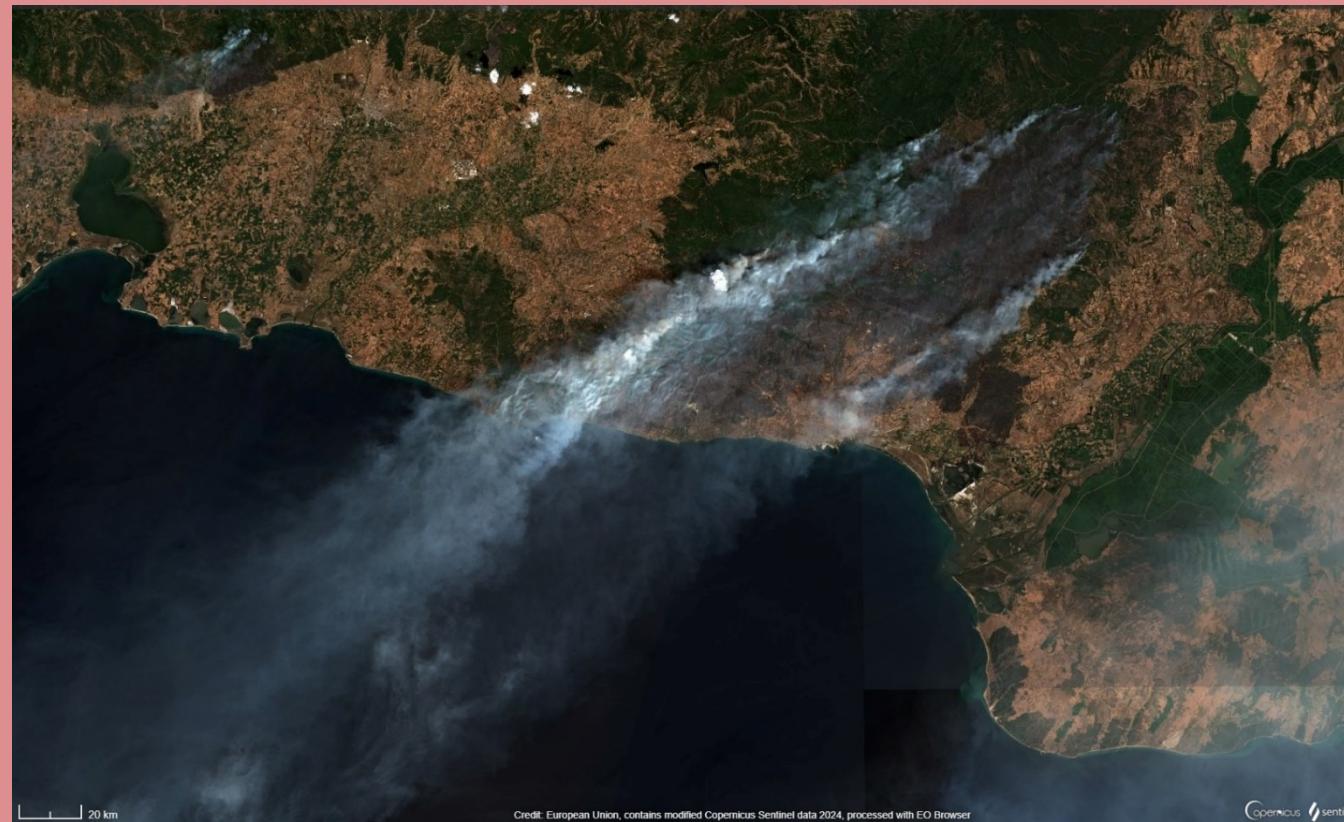
Smart Sensing of Fires

- Sea and Land Surface Temperature Radiometer (SLSTR) Level-2 Near Real Time Fire Radiative Power Product (FRP) aboard Sentinel-3 detects the fire thermal signature

- Sub-daily to daily updates with results available within 3 hours of sensing

Health Risk Evaluation

- Immediate health hazards like intense heat and wildfire smoke exacerbate community vulnerabilities, amplifying their impact

- We integrate FRP data with demographic information to identify anticipated health risks!

Rapid Integration

Flexible programming allows integration of a variety of data to fit user requirements:

- o Demographics
- o Health-related data
- o Healthcare facilities
- o Infrastructure
- o Specific atmospheric pollutants
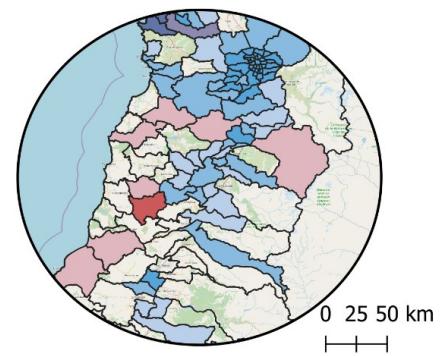
FireSENS evaluation of the 2024 wildfires near Santiago, Chile

Efficient risk assessment to facilitate optimal resource allocation