



An IGAC Activity

<https://www2.acom.ucar.edu/bburned>
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Relevant Resources

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Global fire emission inventories

- **FINN**: Fire INventory from NCAR, multiple gas and aerosol emitted species, 2002-2021, <https://www2.acom.ucar.edu/modeling/finn-fire-inventory-ncar>
- **GFAS**: Global Fire Assimilation System, 2000-present, <https://atmosphere.copernicus.eu/global-fire-emissions>
- **GFED**: Global Fire Emissions Database, 1997-2023, <https://www.globalfiredata.org/>
- **IS4FIRES**: Integrated Monitoring and Modelling System (IS) for wildland fires, emissions of PM_{2.5} and total PM, 2000-current, <http://is4fires.fmi.fi/>
- **QFED**: Quick Fire Emissions Dataset, 2000-current, near-real-time also available, https://gmao.gsfc.nasa.gov/research/science_snapshots/global_fire_emissions.php

Regional fire emission inventories

- **BlueSky**: CONUS and North America fires and fire emissions modeling, 2018-current, <https://www.airfire.org/data/bluesky>
- **WFEIS**: Wildland Fire Emissions Inventory System, USA emissions 2000-current, <https://wfeis.mtri.org/>

Online Tools

- **FIRECAM**: Comparing fire emission inventory data around the world: <https://globalfires.earthengine.app/view/firecam>
- **IS4FIRES + SILAM v.5.5**: Global smoke forecasting: <http://silam.fmi.fi/fires.html>
- **WACCM forecast**: Global atmospheric chemistry forecast with QFED or FINN fires, to 10 days from now, <https://www.acom.ucar.edu/waccm/forecast/>

Fire initiatives/groups

- **FireSense**: a NASA-wide effort combining data, technology, research, flights, aeronautics, innovation, and applications to study the wildfire lifecycle and the connection with communities. <https://cce.nasa.gov/firesense/index.html>
- **HTAP Fires 1**: Towards a Multi-Model, Multi-Pollutant Modeling Study of Fire Impacts
- **IAWF**: International Association of Wildland Fire, a professional membership association dedicated to uniting the global wildland fire community: <https://www.iawfonline.org/>
- **WildfireSat**: Canadian satellite-based instruments to launch in 2029. <https://www.asc-csa.gc.ca/eng/satellites/wildfiresat/>
- **WMO-GAW VFSP-WAS**: Vegetation Fire and Smoke Pollution Warning Advisory and Assessment System, implemented in different regions, <https://community.wmo.int/en/activity-areas/gaw/science/modelling-applications/vfsp-was>