

GFMC Tool 1 – Global Landscape Fire Information System

Brief description of the tool: Globally fires affect between 300 and 600 million hectares of natural and cultural landscapes every year. In some fire-adapted or fire-dependent vegetation types these fires are essential for maintaining the functioning of ecosystem processes. Similarly, fire application in many cultural landscapes is equally important for maintaining stability and productivity of land-use systems. However, fires have serious negative impacts on human safety, health, regional economies, global climate change, and ecosystems in non-fire-prone biomes. The Global Fire Monitoring Center (GFMC) has been created – among other reasons – as a repository and portal for landscape fire documentation, information and monitoring, which is publicly accessible through the Internet. The regularly updated national-to-global wildland fire products of the GFMC are generated by a worldwide network of cooperating institutions and individuals. Working at the interface between the science community and the user community, the research and development work of the GFMC is targeted at providing capacity building and delivering problem-oriented products and solutions. The GFMC is also serving in policy advising, formulation and high-level political activities. The GFMC is the largest global environmental online repository and as of mid-2024 offers 160,000 web pages and / or documents.

Target groups: Decision makers in all countries and international organizations.

Tool category:

- Collection and use of information on climate change
- Risk and vulnerability assessment
- Research, models and mapping
- Socio-economic and livelihood assessment
- Project planning
- Project monitoring and evaluation
- Economic evaluations
- Capacity building and Education
- Policy and decision-making
- Participatory approach
- Gender inclusiveness
- Other: Wildfire emergency preparedness and response

Links/websites: Global Fire Monitoring Center (GFMC) website: <http://gfmc.online/>
 GFMC White Paper to the UN “Vegetation Fires and Global Change. Challenges for Concerted International Action”: <http://gfmc.online/wp-content/uploads/Vegetation-Fires-Global-Change-UN-White-Paper-GFMC-2013.pdf>
 GFMC Search Engine: <http://gfmc.online/>

At which scale can this tool be applied?

- Global
- National
- Regional
- Local/Community level

Level of effort from 1-5 needed to use the tool (1=least demanding and 5=very demanding)

1 2 3 4 5

Is the tool open-source or do fees apply? Open source, no fees

Key contact: GFMC operations fire@fire.uni-freiburg.de