**Tools of the Global Fire Monitoring Center (GFMC)
for advising / supporting nations and the United Nations
in Capacity Building in Wildland Fire Management and
Wildfire Disaster Risk Reduction**

UNISDR IWPM
International Wildfire
Preparedness Mechanism

**Global Fire Monitoring
Center (GFMC)**

GFMC Tool 4 – **Global Wildland Fire Early Warning System and global portal for national and regional wildland fire early warning**
Brief description of the tool: Wildfires have serious negative impacts on human safety, health, regional economies and global climate change. To mitigate these fire-related problems, forest and land management agencies, as well as land owners and communities, require an early warning system to identify critical time periods of extreme fire danger in advance of their occurrence. Early warning of these conditions with high spatial and temporal resolution incorporating measures of uncertainty and the likelihood of extreme conditions allow fire managers to implement fire prevention, detection and pre-suppression plans before fire problems begin. It is crucial that international wildland fire early warning systems are provided and used to complement relevant national fire danger warning systems or to provide early warning where national systems do not exist, and to enhance warnings applied or generated at the local (community) level. The fire danger indicators currently presented on the Global Wildland Fire Early Warning System (Global Fire EWS) are components of the Canadian Forest Fire Weather Index (FWI) System. The Global EWS provides 1-10 day forecasted FWI System data. The global early warning system is accessible through the web portal of the Global Fire Monitoring Center (GFMC). Access to a range of national and regional fire danger rating systems are also provided.   **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 Wildland Fire Early Warning System: http://gfmc.online/gwfews/index-12.html   GFMC Wildland Fire Early Warning Portal: http://gfmc.online/fwf/fwf.html
At which scale can this tool be applied?   ☒ Global   ☒ National   ☒ Regional   ☒ Local/Community level   ☐ Other: --
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
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Last Update: 06 May 2018