IFMEG -

Integrated Fire Management Expert Group

IFMEG provides **professional services and expertise** in fire management and ecology, natural resource management, spatial planning, participatory land use planning, facilitation of stakeholder processes as well as state of the art Geographical Information System/Remote Sensing applications.

Our experts have implemented fire and sustainable resource management programs world-wide for more than 10 years.

We offer expertise to individual land managers and concessionaires, government agencies and international development/support programs in establishing an operational fire management system as part of a sustainable resource management framework.

Fire -

an increasing threat to the global environment

In the past decade catastrophic wildfires destroyed more than 100 million hectare forested land causing severe impacts on the environment and human population. Wildfires

- produce noxious smoke, haze and gases contributing to global warming
- lead to forest degradation, losses in biodiversity, wildlife habitat and soil erosion
- affect immediate and long-term impacts to the livelihoods of local communities
- threaten future economic status of forest enterprises striving for sustainable forest management and timber certification

Fire management is not only a technical but also a socio-cultural and political challenge that requires a concise network of willing partners, agreements, and technology to effectively find the appropriate balance point between developing and conserving natural resources and managing unwanted fires. **IFMEG has elaborated Integrated Fire Management (IFM) concepts that address all aspects of fire management.**

IFM involves the facilitation of multi-stakeholder and community consultation processes to develop a common understanding about individual fire issues. It is based on two pillars:

- **Cooperation** between local communities and land managers to find compromises and solutions in developing a fire management system.
- **A comprehensive fire management strategy** combining information, prevention and fire suppression/fuels activities as an integrated element of an overall sustainable resource management framework.

IFMEG Services

Fire Preparedness and Information

- Organizational capacities & structural framework
- Fire management planning, preparation & budget outlines
- Fuels management and prescribed fire opportunities & applications
- Basic/advanced firefighter training and equipment maintenance standards
- Initial attack fire suppression equipment needs and acquisition
- Fire suppression maps, suppression mobilization planning
- Fire prevention and detection methods & procedures
- Community based fire management concepts & development
- Facilitation of stakeholder meetings to develop cooperative agreements
- Fire Danger Rating, Fire hazard/risk mapping
- Remote sensing (fire monitoring & impact assessment, land use mapping)
- GIS (fire risk modeling, cartography)
- Fire management and sustainable forest & land management practices
- Forest & timber certification (eco-labeling)

During the Fire

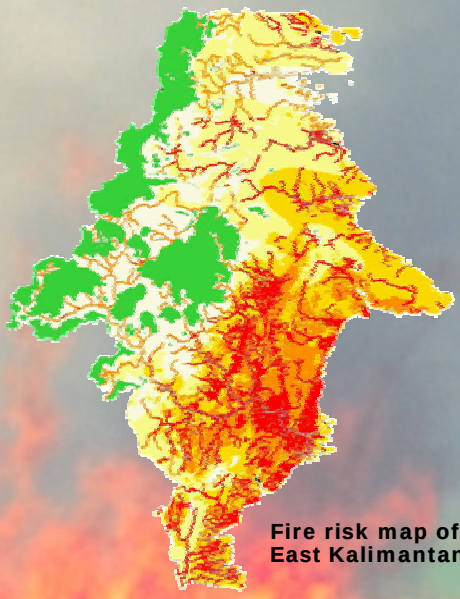
- Strategic and tactical fire suppression guidance and coordination
- Logistical and tactical assistance

After the Fire

- Post fire land-use and resource management planning
- Ecological/economic impact assessments and rehabilitation

Reference projects

- Integrated Forest Fire Management Project- IFFM/GTZ
- Sustainable Forest Management Project – SFMP/GTZ
- Regional Coordination Asia-Pacific for Forest Certification
- Fire Incident Assessment in Vietnam, GTZ, UN
- Technical and conceptual fire management for the EU South Sumatra Fire Management Project
- Analysis of different satellite sensors for fire impact assessment, EC, ESA
- Large area fire impact assessment, GTZ
- Carbon release and ecological impact of peat fires
- Forest Monitoring and Fire Detection using ENVISAT satellite data
- Fire Danger Modelling system for tropical forests, GTZ



Fire risk map of East Kalimantan

The IFMEG team

- **Bradford M. Sanders** – Wildland/prescribed fire management specialist.
- **Dr. Alexander Hinrichs** - Sustainable forest & land management & timber certification, multi-stakeholder dialogue.
- **Anja A. Hoffmann** – Integrated Fire Management & ecology, change management & process consultation.
- **Prof. Dr. Florian Siegert** - Remote Sensing Solution GmbH (RSS) – Fire monitoring & impact assessment using remote sensing applications, fire ecology, land-use planning, nature conservation.
- **Gernot Ruecker** – ZEBRIS - Fire risk mapping & modeling, sustainable resource management using Geographic Information Systems (GIS).

Associated Partner

- **Prof. Dr. Johann J. Goldammer** - Global Fire Monitoring Center (GFMC) Fire management strategy and policy development at local, national and international levels, facilitator of the Global Wildland Fire Network; associated with the UN system (www.fire.uni-freiburg.de).

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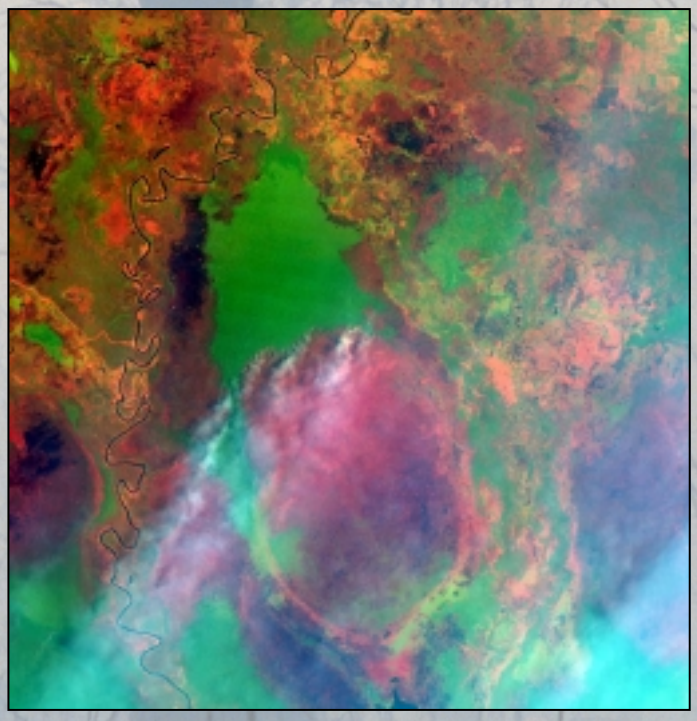

Satellite image of a burning peat swamp forest (Landsat ETM)

Publications

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Hinrichs, A. & Y. Ruslim, (2001). Implementing RIL in Indonesia. *ITTO Tropical Forest Update*, **11**, 2: 6-7.

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