4th International Wildland Fire Conference
Sevilla, Spain, 13-17 May 2007

Wildfire2007

Review of International Cooperation in Fire Management

by

Global Wildland Fire Network / Wildland Fire Advisory Group
UN International Strategy for Disaster Reduction (UNISDR)
Global Fire Monitoring Center (GFMC)

ISDR

GOFC-GOLD GLOBAL OBSERVATION OF FOREST AND LAND COVER DYNAMICS

GEO GROUP ON EARTH OBSERVATIONS

Participation of the UNISDR Global Wildland Fire Network in the Development of the Global Strategy

Strategy to enhance international cooperation in fire management

Global assessment 2006	**Review of international cooperation 2006**	**Voluntary guidelines: principles and strategic actions**	**Action alliance to implement voluntary guidelines**

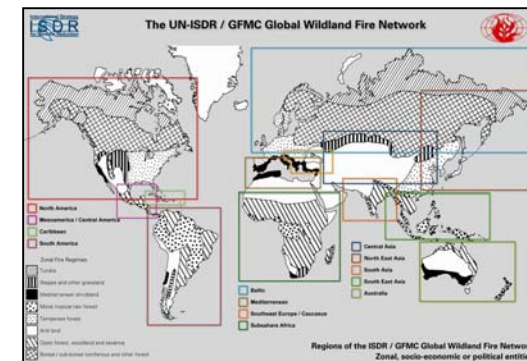**Contributions by the UNISDR Global Wildland Fire Network:**

➢ Reporting from 12 Regional Wildland Fire Networks to the Global Assessment of Fire Management

➢ Drafting of the Fire Management Voluntary Guidelines

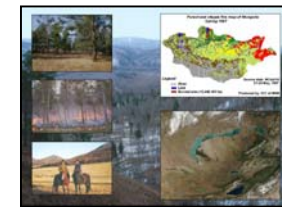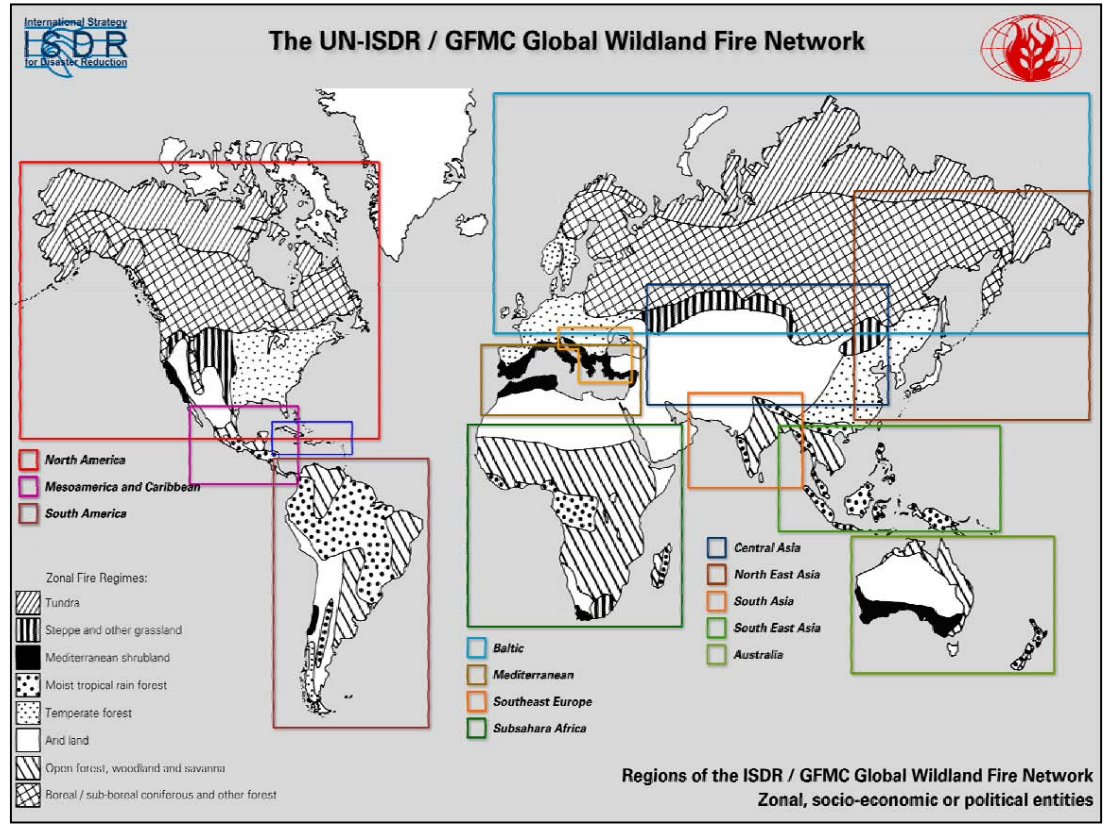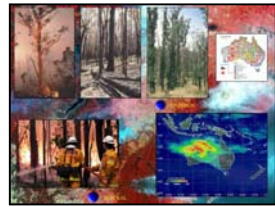➢ Support the GFMC in developing the review of international cooperation in fire management

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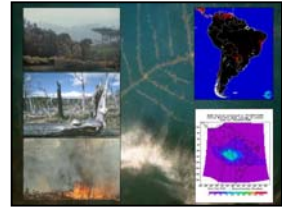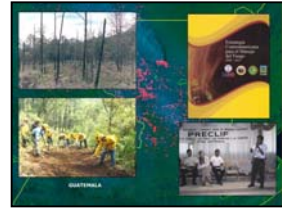➢Support the GFMC in developing the review of international cooperation in fire management

UNISDR – GWFN: 2003-2007

The UN-ISDR / GFMC Global Wildland Fire Network

Zonal Fire Regimes:
Tundra
Steppe and other grassland
Mediterranean shrubland
Moist tropical rain forest
Temperate forest
Arid land
Open forest, woodland and savanna
Boreal / sub-boreal coniferous and other forest

North America
Mesoamerica and Caribbean
South America

Baltic
Mediterranean
Southeast Europe
Subsahara Africa

Central Asia
North East Asia
South Asia
South East Asia
Australia

Regions of the ISDR / GFMC Global Wildland Fire Network
Zonal, socio-economic or political entities

UNISDR Regional Wildland Fire Networks
North America – Mesoamerica – South America – Caribbean – Mediterranean – Southeast
Europe / Caucasus – Subsahara Africa – South Asia – Southeast Asia – Australasia –
Northeast Asia – Central Asia - Baltic

Participation of the UNISDR Global Wildland Fire Network in the Development of the Global Strategy

Strategy to enhance international cooperation in fire management

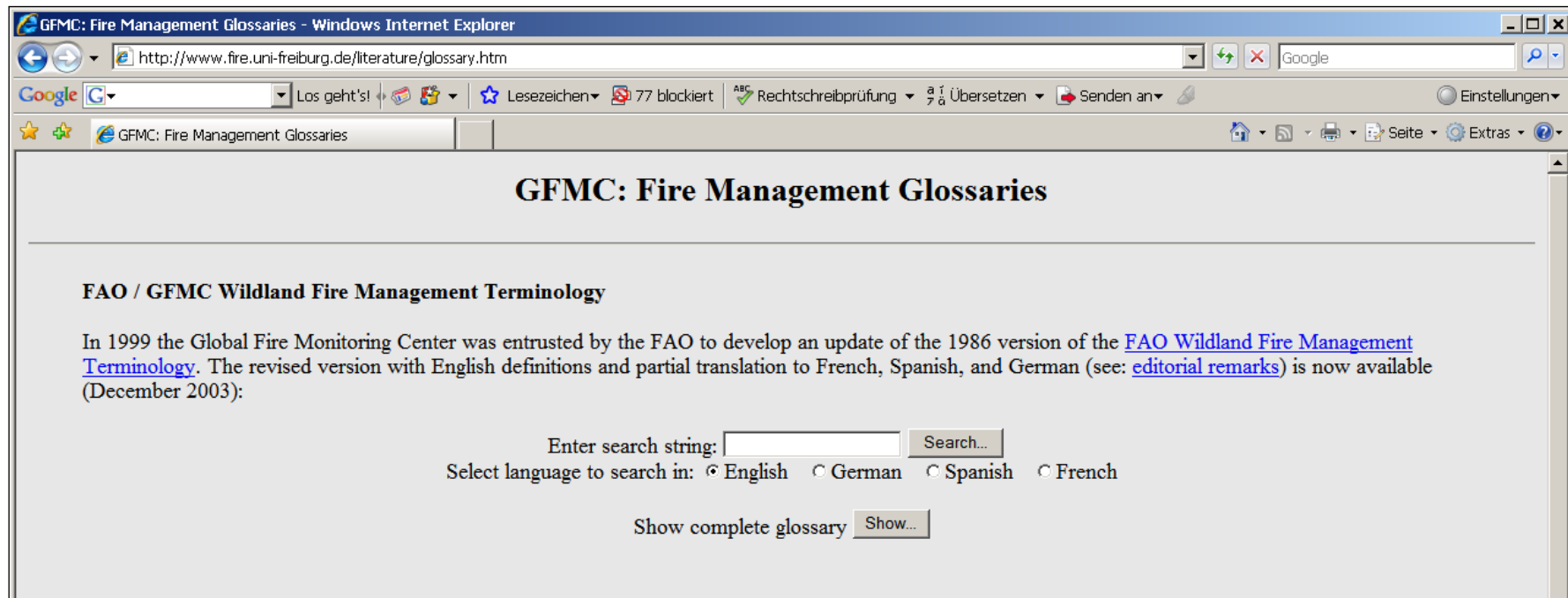| Global assessment 2006 | Review of international cooperation 2006 | Voluntary guidelines: principles and strategic actions | Action alliance to implement voluntary guidelines |

Review of international Cooperation in Fire Management:

(1) Development of international standards, methods and systems for fire early warning, monitoring, impact assessment and reporting

- ➤ **Terminology**
- ➤ **Fire statistics: Development of a coherent global database**
- ➤ **Fire monitoring**
- ➤ **Early warning**
- ➤ **International sharing of data and information**

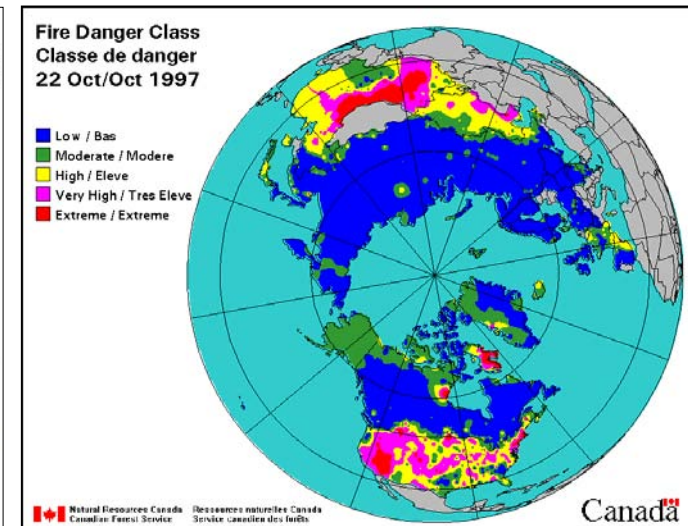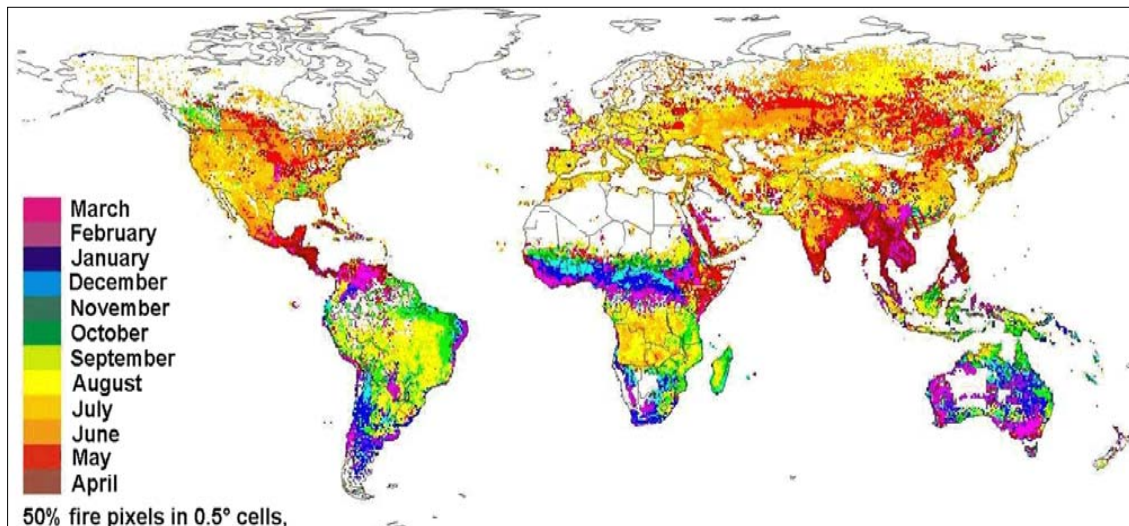# Review of international Cooperation in Fire Management:

(1) Development of international standards, methods and systems for fire early warning, monitoring, impact assessment and reporting

# Review of international Cooperation in Fire Management:

(1) Development of international standards, methods and systems for fire early warning, monitoring, impact assessment and reporting
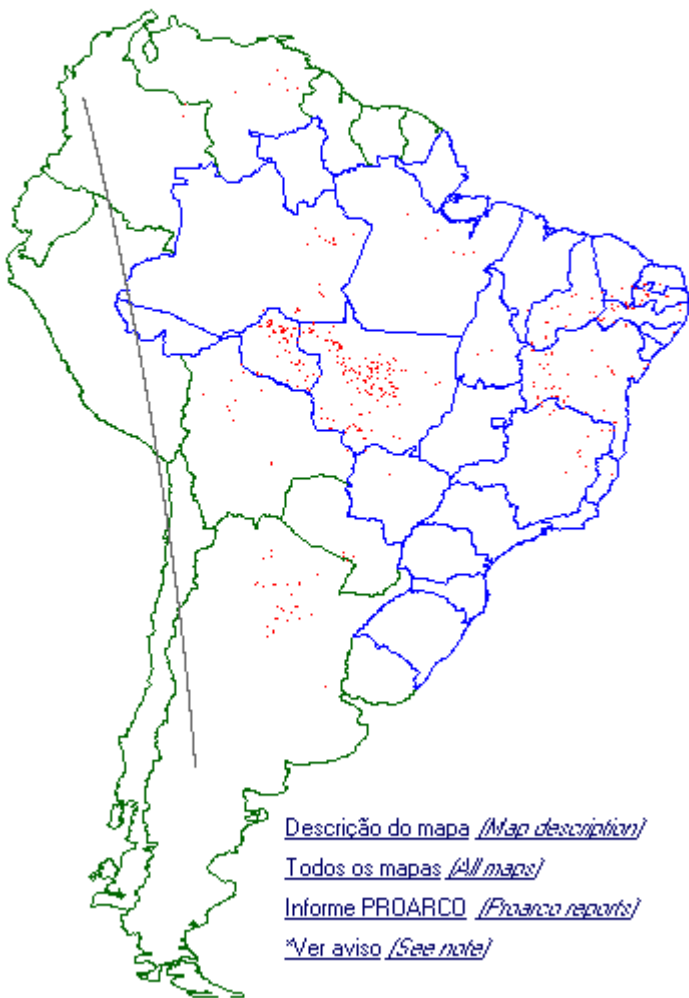
Integration and Coordination of Existing Monitoring Systems

- To enhance rapid fire detection and classification capabilities at national and regional levels
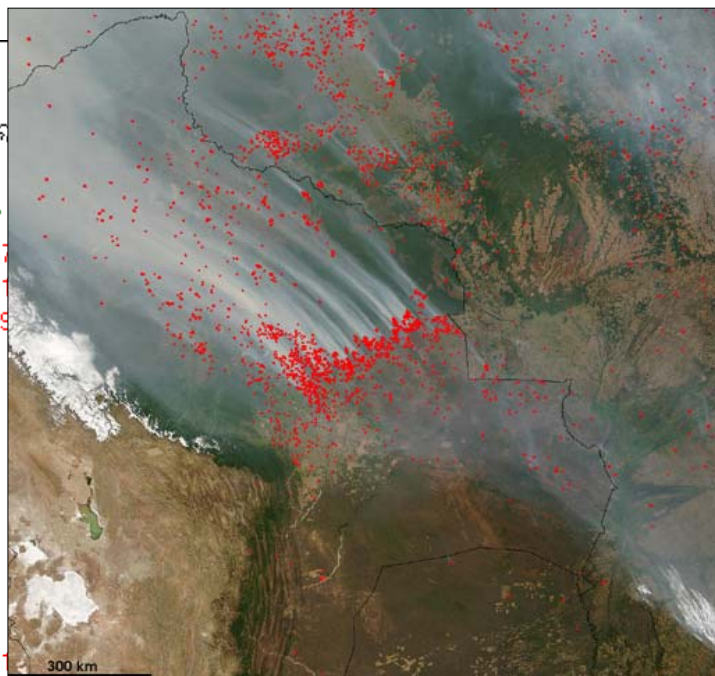- To create systems for rapid information dissemination
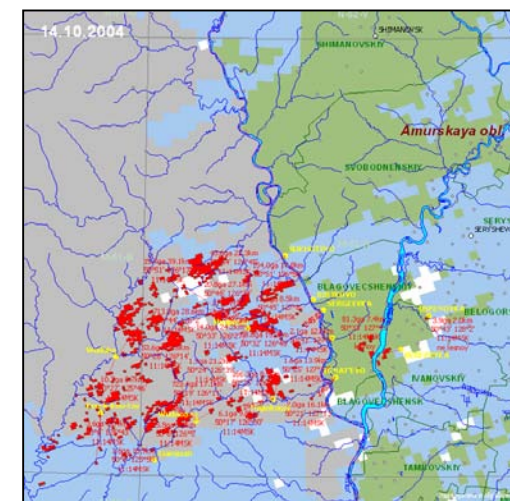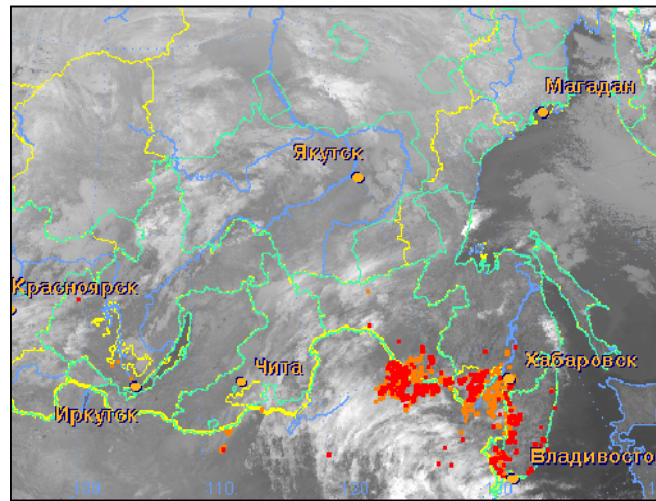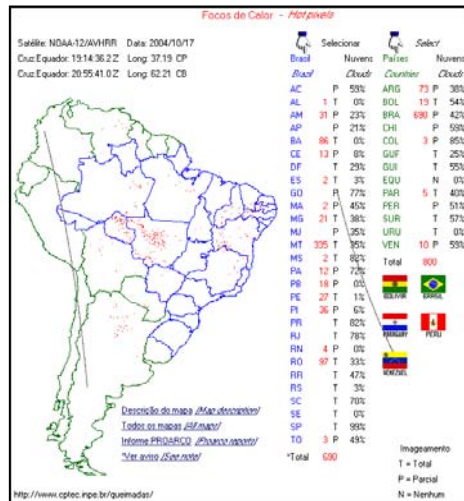
Focos de Calor - *Hot pixels*

Satélite: NOAA-12/AVHRR   Data: 2004/10/17

Cruz.Equador: 19:14:36.2 Z   Long: 37.19 CP

Cruz.Equador: 20:55:41.0 Z   Long: 62.21 CB

Selecionar

Brasil *Brazil*		Nuvens *Clouds*	Países *Countries*	
AC	P	59%	ARG	
AL	1 T	0%	BOL	
AM	31 P	23%	BRA	69
AP	P	21%	CHI	
BA	86 T	0%	COL	
CE	13 P	8%	GUF	
DF	T	29%	GUI	
ES	2 T	3%	EQU	
GO	R	77%	PAR	
MA	2 P	45%	PER	
MG	21 T	38%	SUR	
MJ	P	35%	URU	
MT	335 T	35%	VEN	
MS	2 T	82%		
PA	12 P	72%	Total	800
PB	18 P	0%		
PE	27 T	1%		
PI	36 P	6%		
PR	T	82%		
RJ	T	78%		
RN	4 P	0%		
RO	97 T	33%		
RR	T	47%		
RS	T	3%		
SC	T	70%		
SE	T	0%		
SP	T	99%		
TO	3 P	49%		
*Total	690			

Descrição do mapa *(Map description)*

Todos os mapas *(All maps)*

Informe PROARCO *(Proarco reports)*

*Ver aviso *(See note)*

http://www.cptec.inpe.br/queimadas/

Imageamento

T = Total

P = Parcial

N = Nenhum

BOLIVIA   BRASIL   PARAGUAY   PERU   VENEZUEL

South America Fire Monitoring
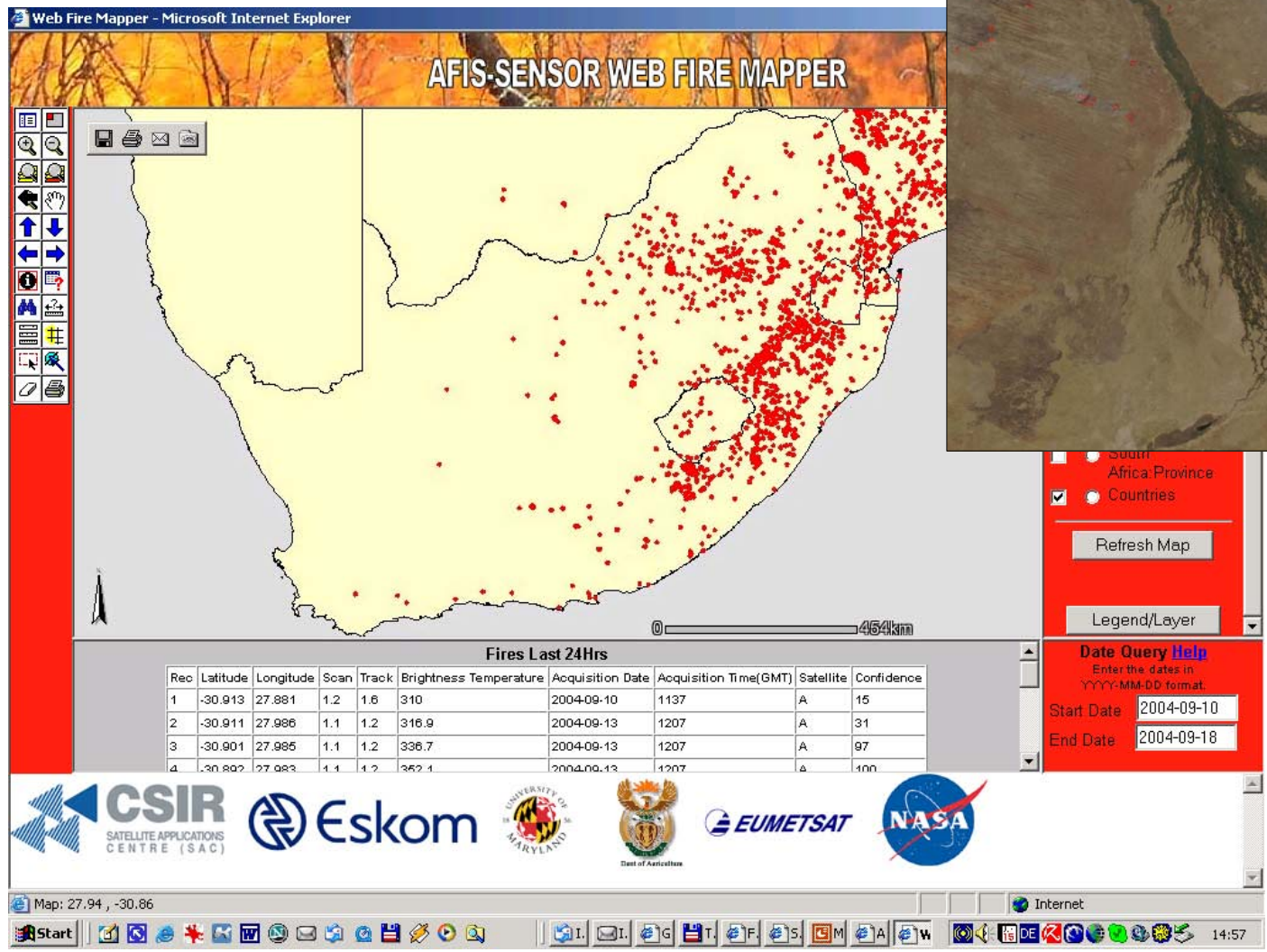
Southern Africa Fire Monitoring

**Central America
Fire Monitoring**
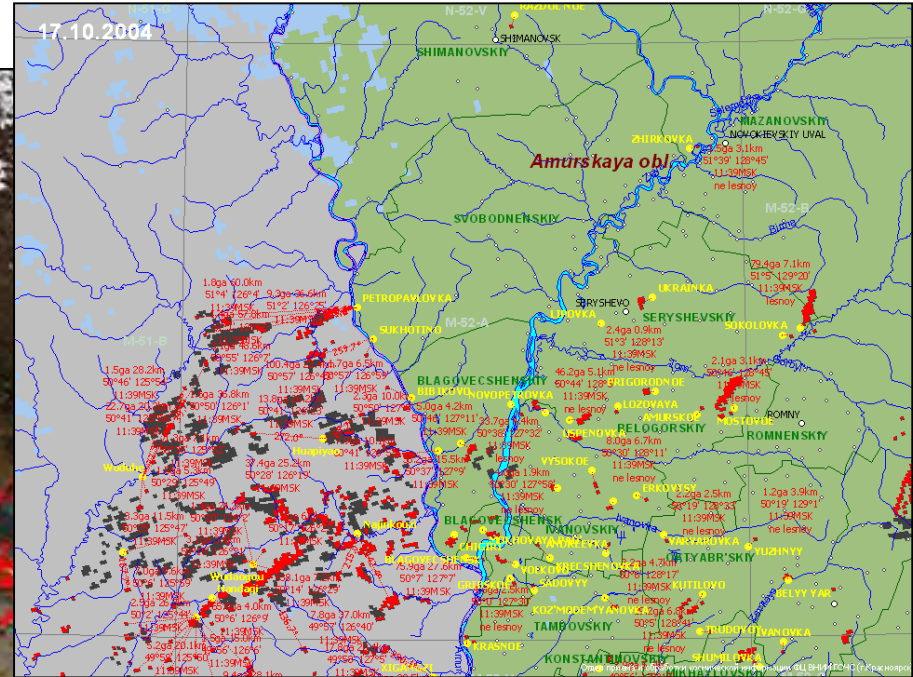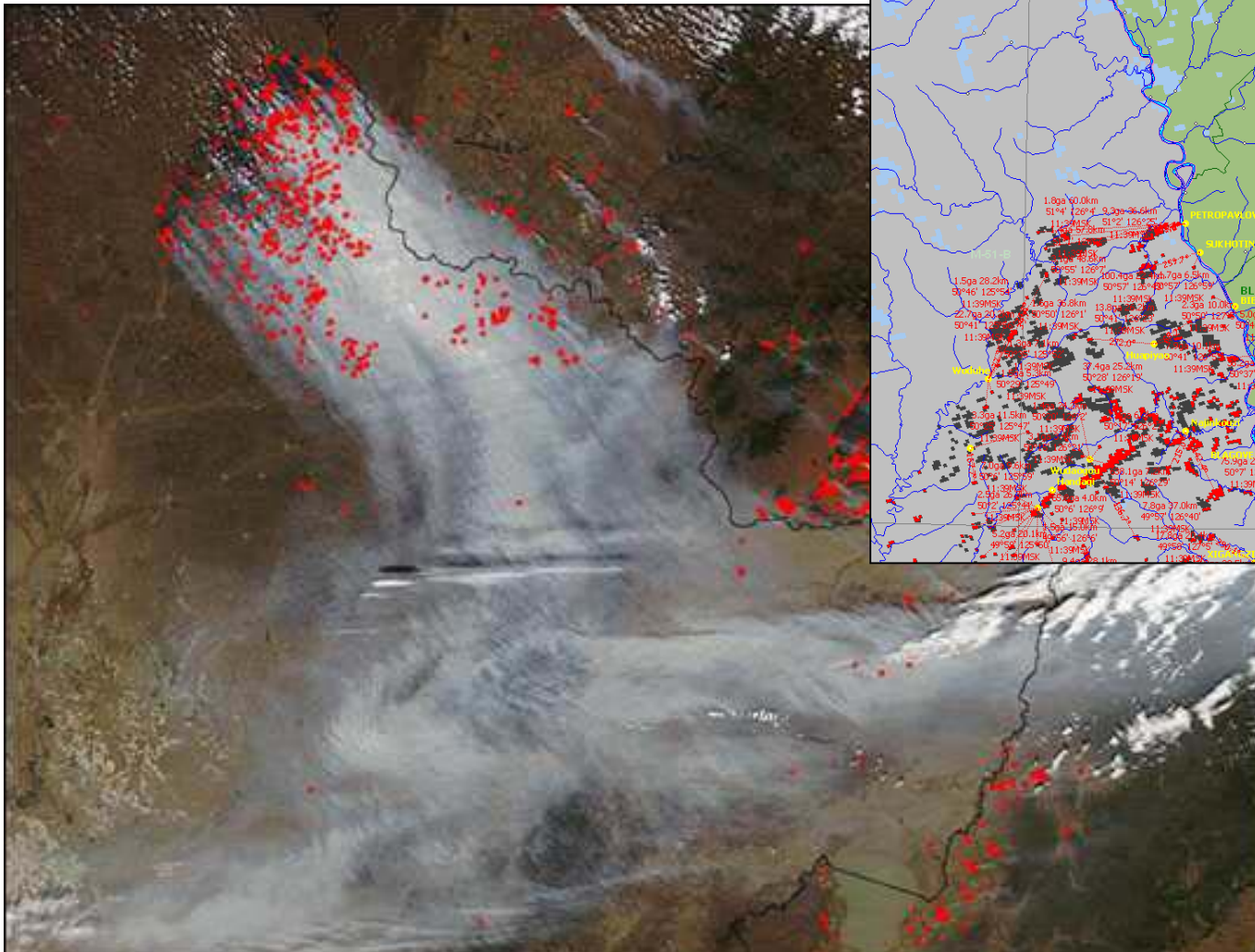
Central Asia Fire Monitoring

The proposed Global Wildland Fire Early warning System – the fire component of the envisaged Global Multi-Hazard Early Warning System

Fire Danger Class
Classe de danger
22 Oct/Oct 1997

- Low / Bas
- Moderate / Modere
- High / Eleve
- Very High / Tres Eleve
- Extreme / Extreme

Natural Resources Canada
Canadian Forest Service
Ressources naturelles Canada
Service canadien des forêts

Canada
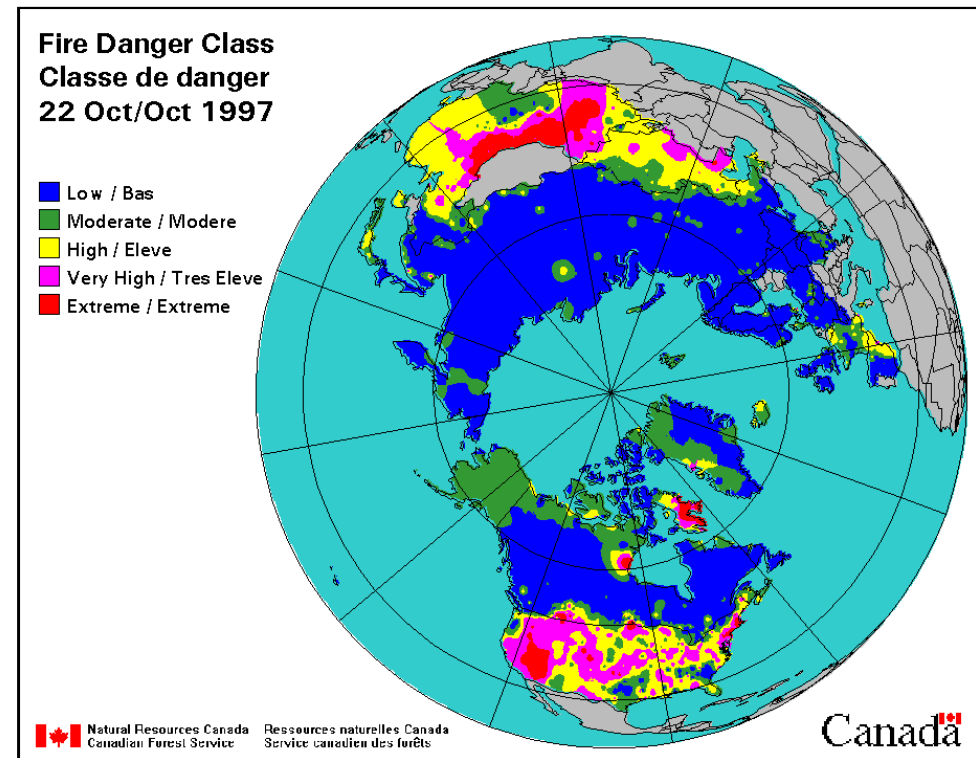
Fire Danger maps
Typical data flow

World and Regional Meteorological Centers

1. Collect noon weather observations from WMO centres

2. Transfer data

3. Extract and decode weather data; interpolate conditions to build grid layers in a GIS; produce daily early warning maps

4. Map products displaying current fire danger are distributed via WWW and GEONETCast

Terrain and Vegetation characteristics

Drought Code
- 0
- 1 - 100
- 100 - 200
- 200 - 300
- 300 - 400
- 400 - 500
- 500 - 600
- 600 - 700
- 700 - 800

Opportunities of partners to join the
Global Early Warning System for Wildland Fire

Coordinate with existing and upcoming systems of wildland fire early warning and monitoring
http://www.fire.uni-freiburg.de/fwf/fwf.htm
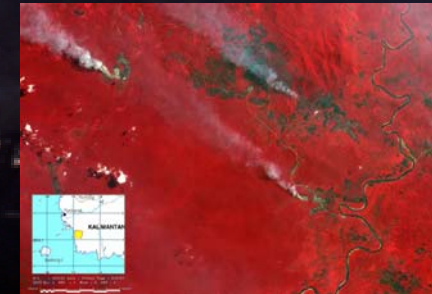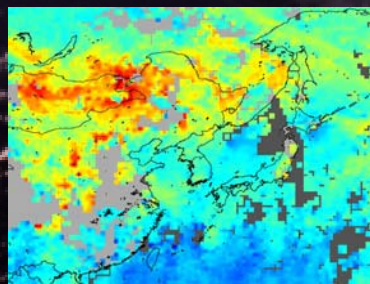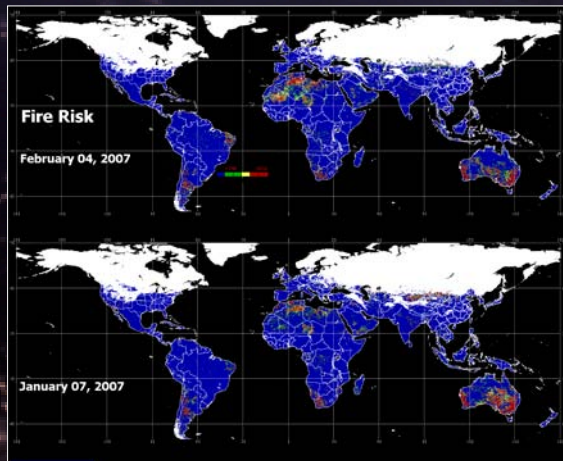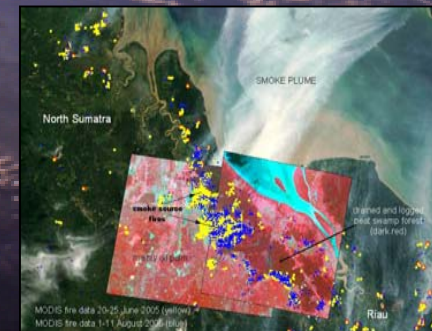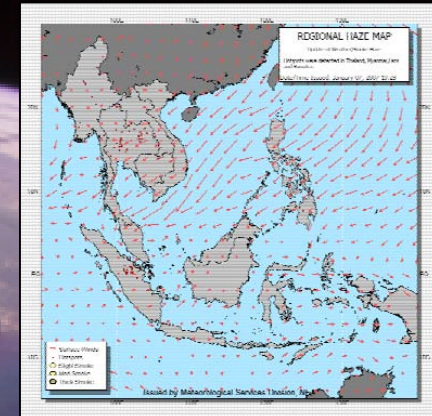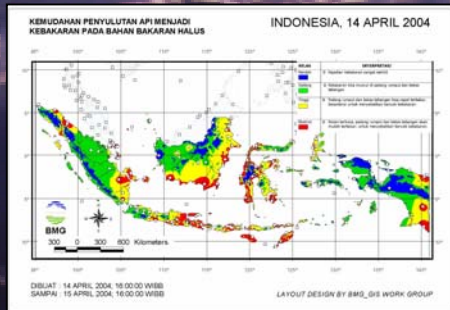
Review of international Cooperation in Fire Management:

(2) Training and technology transfer

➢ **Training of fire management personnel**
➢ **Public / community involvement in fire management**
➢ **Fire management guidelines**
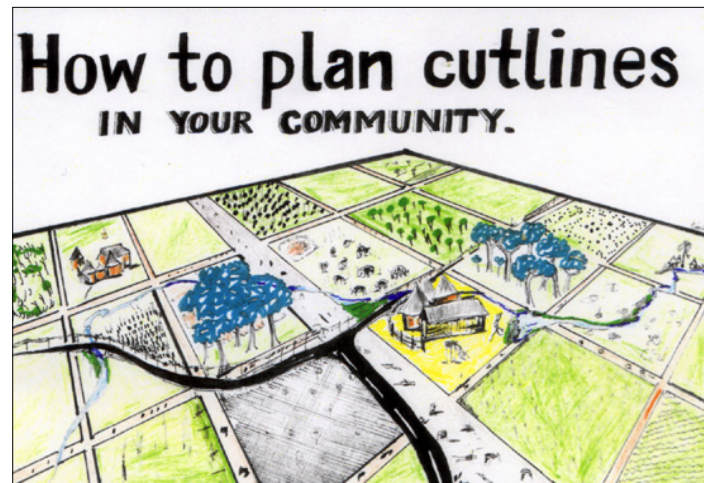
Public / community involvement in fire management:

Towards enhancing the South-South dialogue and technology transfer

Review of international Cooperation in Fire Management:

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- ➢ Training of fire management personnel
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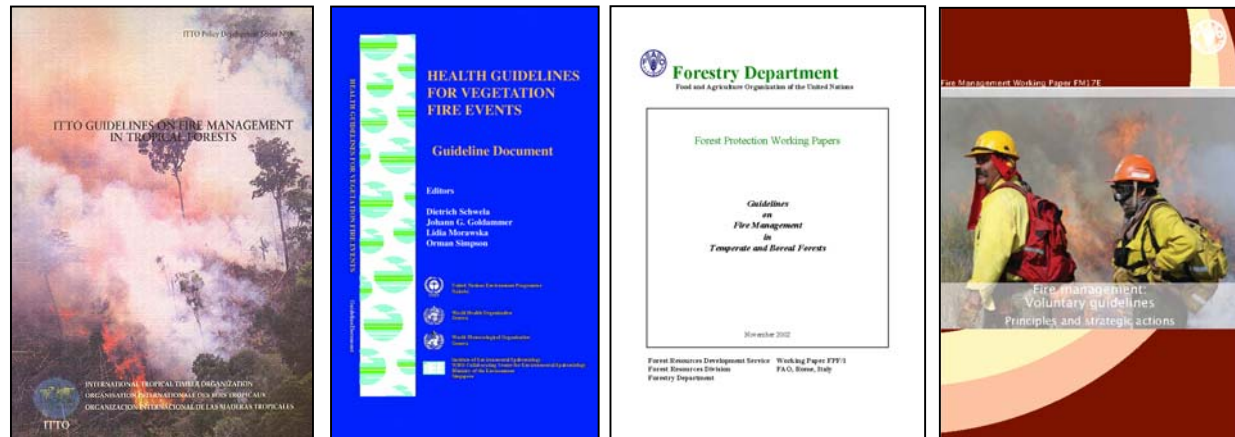
Review of international Cooperation in Fire Management:

(3) Support to policy, legal, institutional and planning frameworks

- ➢ **Policies, legislation and strategies: National and regional**
- ➢ **Human safety and health**
- ➢ **Human security and peace**
- ➢ **International agreements for cooperation in fire management, including mutual assistance in fire emergencies**

Review of international Cooperation in Fire Management:

(4) Research
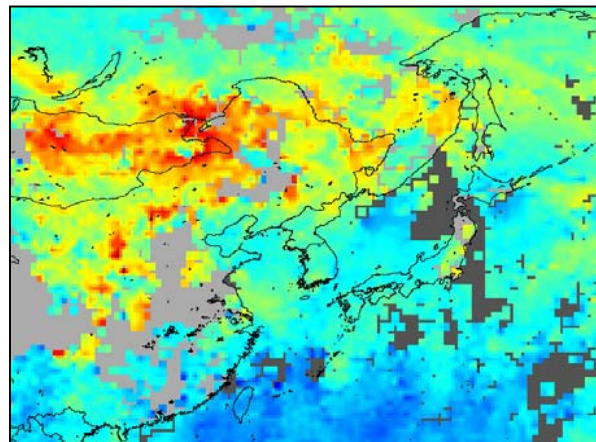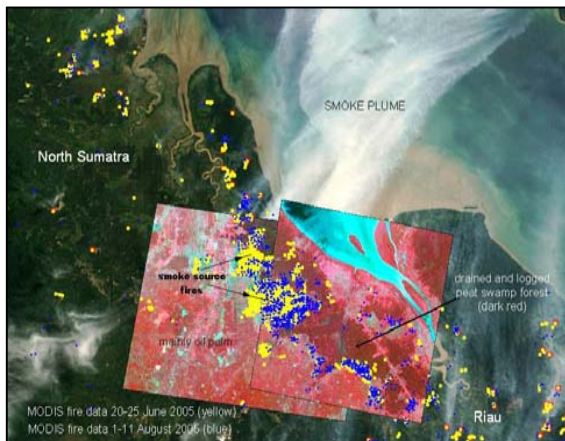
Research priority: Smoke and human health

Vegetation Fire Smoke:

Nature, Impacts and Policies to Reduce Negative Consequences on Humans and the Environment

A Publication of the Council of Europe Directorate of Culture and Cultural and Natural Heritage

prepared in the frame of the

European Open Partial Agreement on the Prevention, Protection Against and Organization of Relief in Major Natural and Technological Disasters – EUR-OPA Major Hazards Agreement

as a contribution to the

4th International Wildland Fire Conference Sevilla, Spain, 13-17 May 2007

Wildfire2007
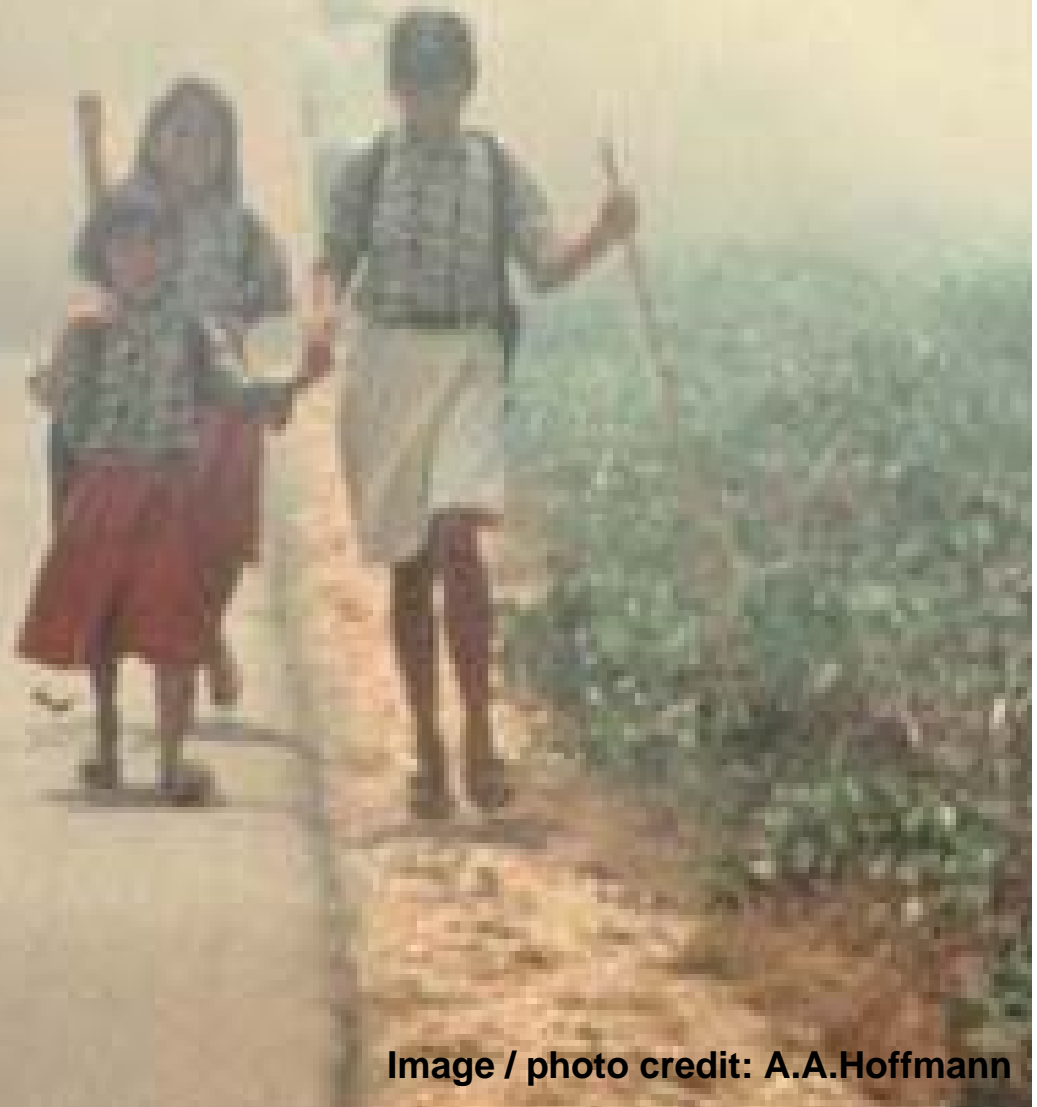
Image / photo credit: A.A.Hoffmann

Cooperative and collective solutions:

Strategy to Enhance International Cooperation in Fire Management
Coordination and Harmonization of Sectoral Capabilities and Responsibilities
Serving Countries and Creating Synergies through the Global Wildland Fire Network

Strategy to Enhance International Cooperation in Fire Management
Coordination and Harmonization of Sectoral Capabilities and Responsibilities
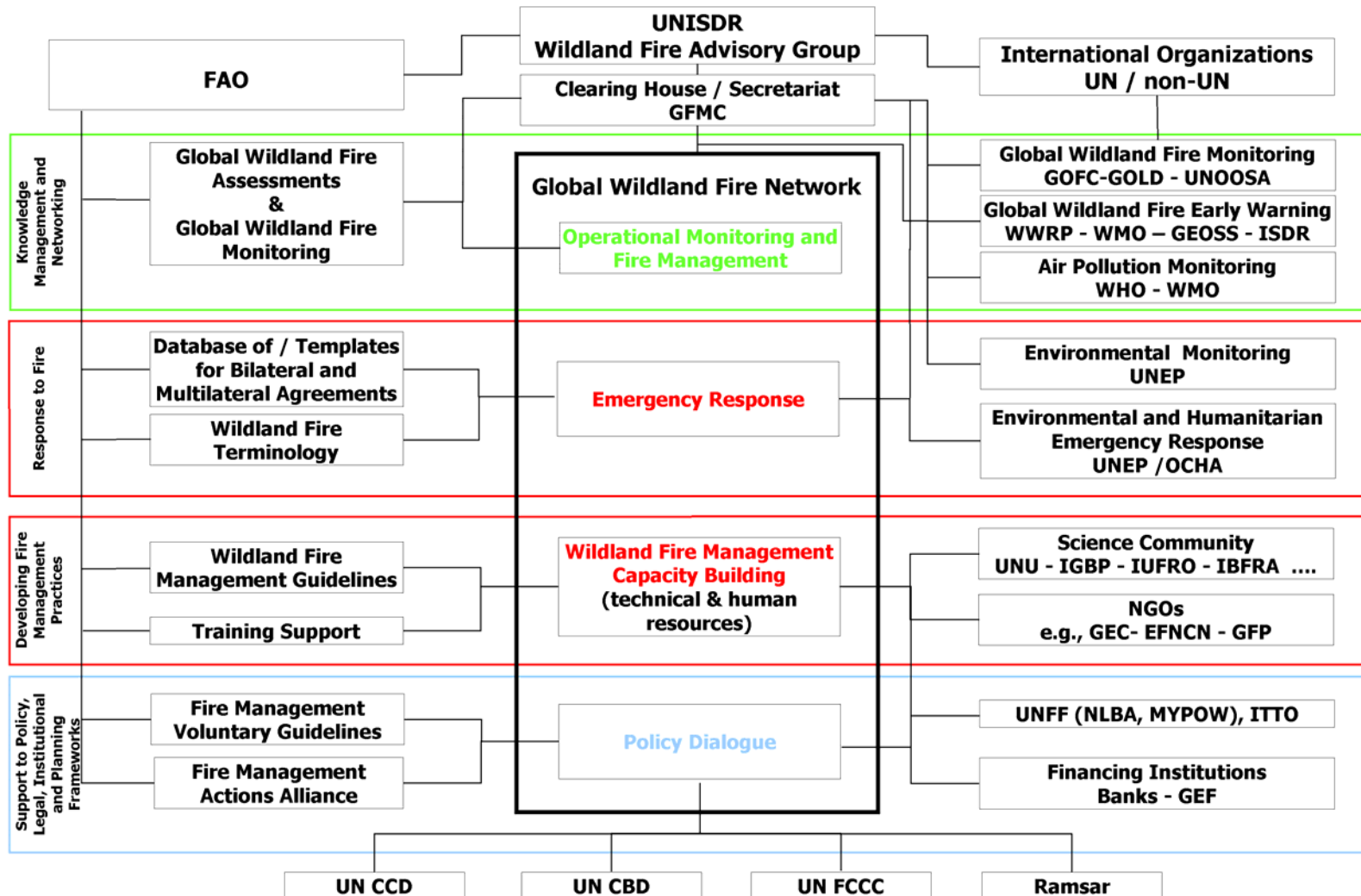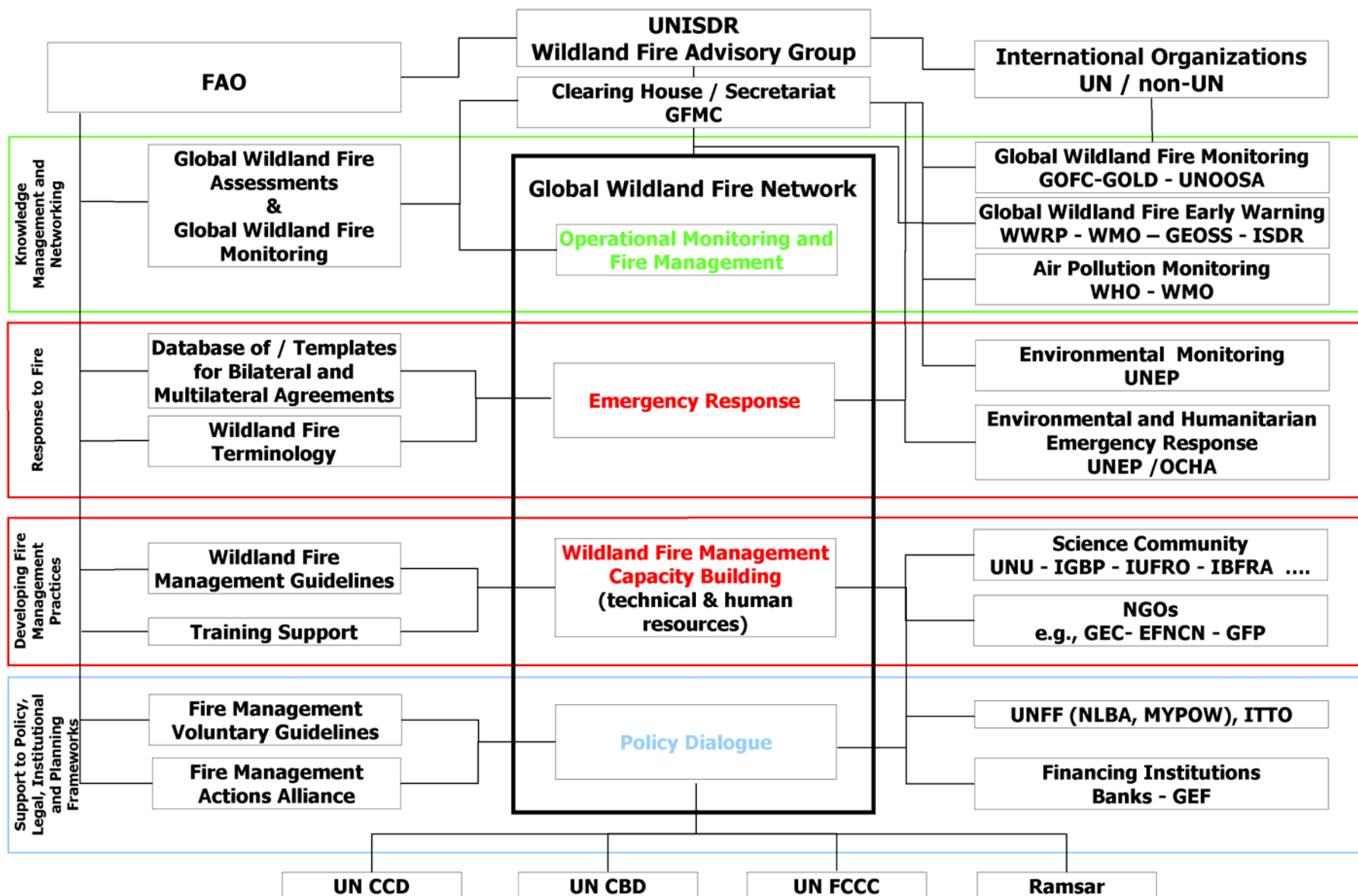## Serving Countries and Creating Synergies through the Global Wildland Fire Network

UNISDR Wildland Fire Advisory Group

FAO

International Organizations UN / non-UN

Clearing House / Secretariat GFMC

Global Wildland Fire Network

Knowledge Management and Networking

Global Wildland Fire Assessments & Global Wildland Fire Monitoring

Operational Monitoring and Fire Management

Global Wildland Fire Monitoring GOFC-GOLD - UNOOSA

Global Wildland Fire Early Warning WWRP - WMO — GEOSS - ISDR

Air Pollution Monitoring WHO - WMO

Response to Fire

Database of / Templates for Bilateral and Multilateral Agreements

Wildland Fire Terminology

Emergency Response

Environmental Monitoring UNEP

Environmental and Humanitarian Emergency Response UNEP /OCHA

Developing Fire Management Practices

Wildland Fire Management Guidelines

Training Support

Wildland Fire Management Capacity Building (technical & human resources)

Science Community UNU - IGBP - IUFRO - IBFRA ....

NGOs e.g., GEC- EFNCN - GFP

Support to Policy, Legal, Institutional and Planning Frameworks

Fire Management Voluntary Guidelines

Fire Management Actions Alliance

Policy Dialogue

UNFF (NLBA, MYPOW), ITTO

Financing Institutions Banks - GEF

UN CCD   **UN CBD**   **UN FCCC**   **Ramsar**

Thanks for your attention