



Status of the Global Wildland Fire Network and the Development on an International Wildland Fire Accord

Johann G. Goldammer

Global Fire Monitoring Center (GFMC)

UN International Strategy for Disaster Reduction (ISDR)

Wildland Fire Advisory Group

Global Wildland Fire Network



Objective of this presentation

- **Goals of the Global Wildland Fire Network**
- **Status of the Regional Wildland Fire Networks**
- **Roadmap for the development of the International Wildland Fire Accord**

The Global Wildland Fire Network

Objectives (I):

Establishment / support of Regional Wildland Fire Networks, aimed at

- Promotion of the dialogue between wildland fire scientists, managers and policy makers
- Promotion of formal agreements on cooperation in wildland fire management between countries (bilateral, multilateral)
- Sharing of wildland fire management resources (e.g., costly equipment such as aerial assets)
- Sharing effort in regional wildland fire early warning and monitoring
- Development of standards
- Joint fire management training

The Global Wildland Fire Network



Objectives (II):

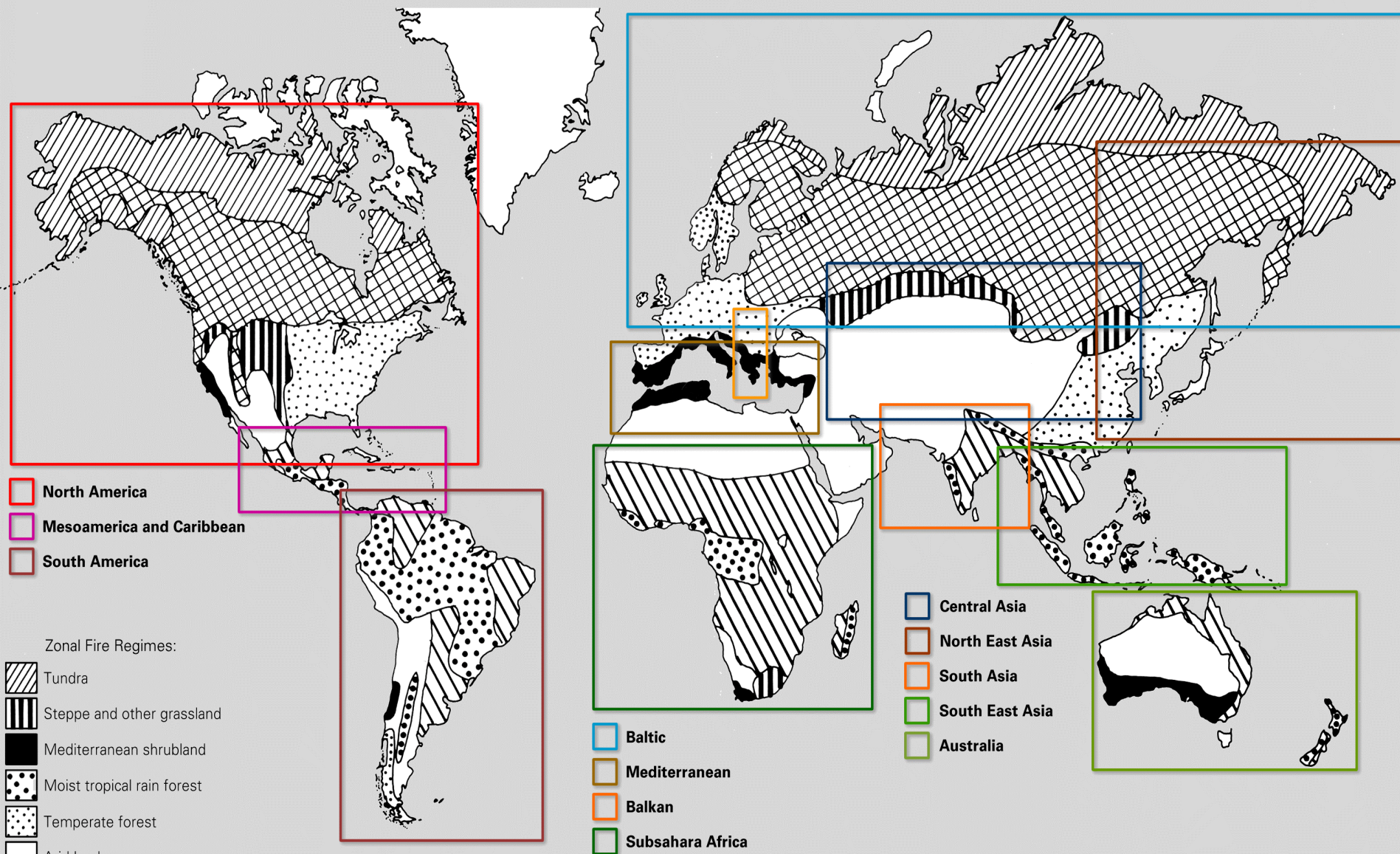
- Establishment of an international dialogue / sharing of information and resources between regions and international organizations
- Implementation of recommendations of international conferences and the International Wildland Fire Summit
- Preparation of an international agreement on cooperation in wildland fire management

Main UN Partners of the Wildland Fire Advisory Group and the Global Wildland Fire Network

- UN Food and Agriculture Organization (FAO)
- WHO, WMO, UNESCO
- UN Forum on Forests (UNFF) (since 2003)

- UN Conventions
 - Convention on Biodiversity (CBD) (since 2003)
 - Convention on Combat of Desertification (CCD) (since 2004)
 - Framework Convention of Climate change (FCCC) (expression of interest, since 2004)

- United Nations University, Institute for Environment and Human Security



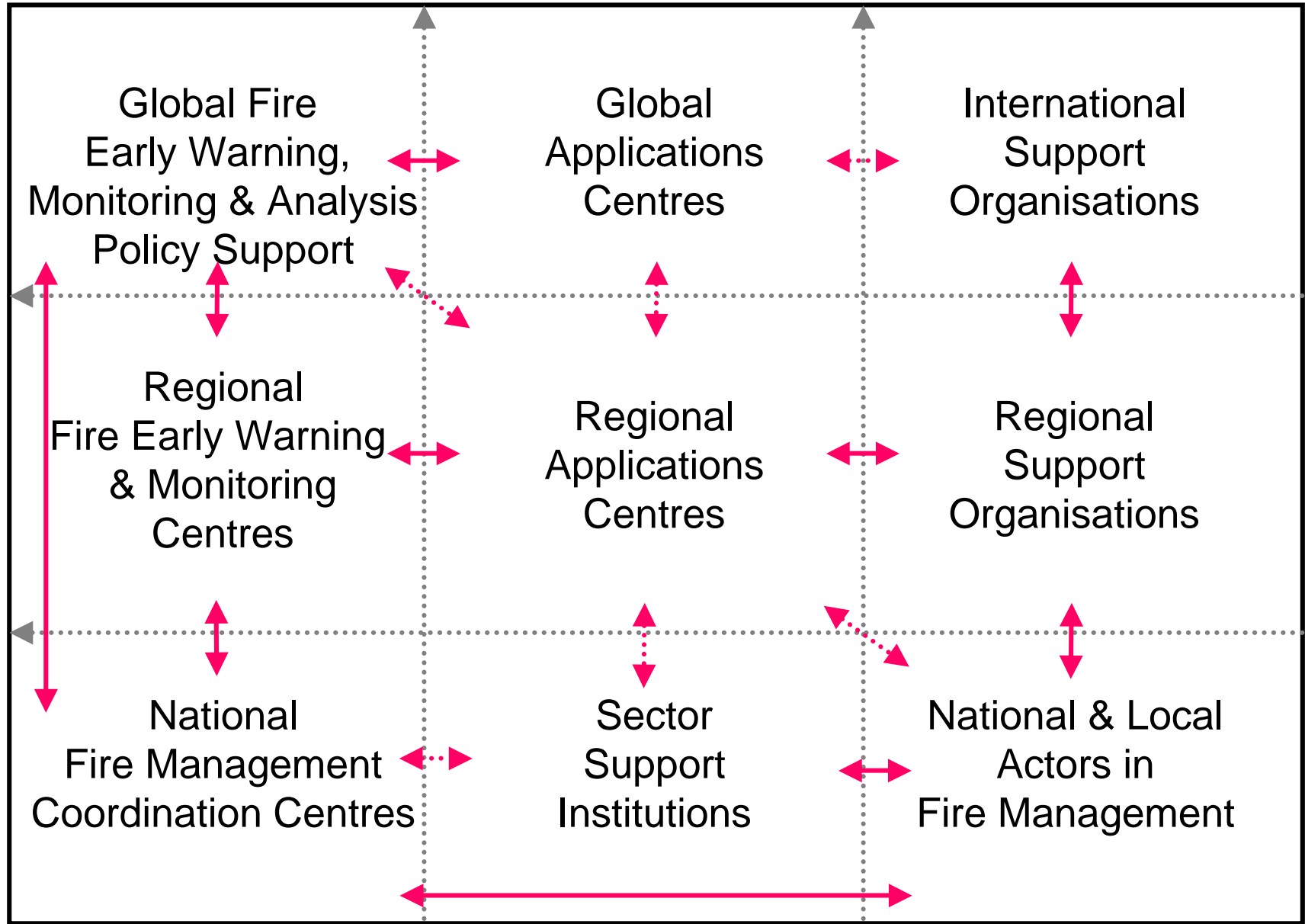
**Scientific & Technical
Analysis & Prediction**

**Social & Economic Actions;
Fire Management**

Global Scale

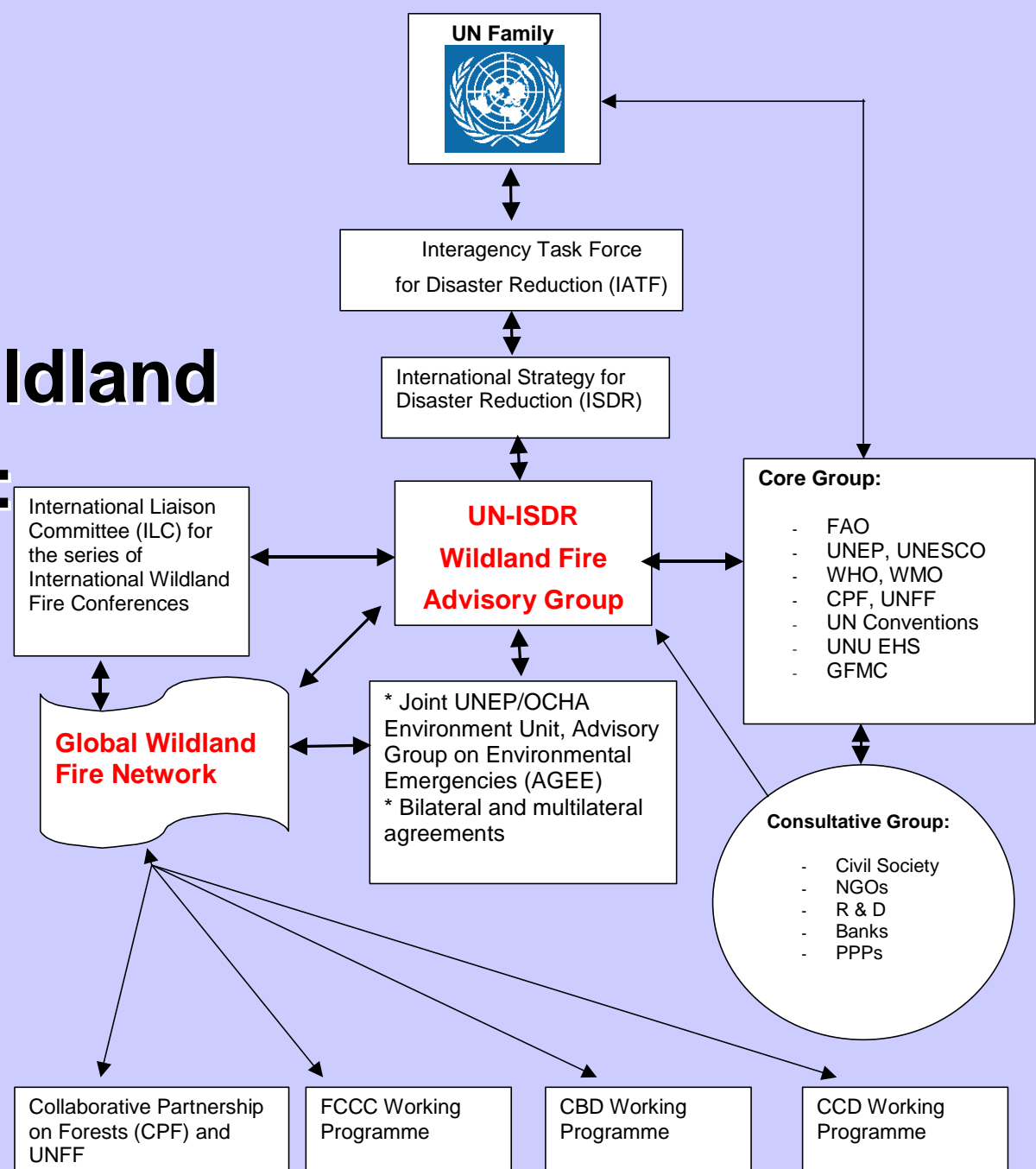
Regional Scale

**National to
Local Scale**



Towards developing an International Wildland Fire Agreement:

Partner
organizations
cooperating
with the UN





Events supporting the Development of an International Wildland Fire Agreement (before 2004)

- **International Decade of Natural Disaster Reduction (IDNDR – 1990s)**
- **ECE/FAO Conference Forest, Fire and Global Change (Russian Federation, 1996)**
- **FAO Consultations (1998, 2001)**
- **International Wildland Fire Conferences in Vancouver (1997) and Sydney (2003)**
- **International Wildland Fire Summit (2003)**

Regional Wildland Fire Networks (I)



- **Regional North East Asia Wildland Fire Network**

Founded: March 2004

Host: Korea Forest

Service (with ISDR)

2nd Meeting: 18 January 2005



Members:

South Korea

Japan

China

Russia (Far East)



Regional Wildland Fire Networks (II)



- **Regional Balkan Wildland Fire Network**

UN-ECE Region: Team of Specialists on Forest Fire

Founded: 2002



Monitoring Center
Bulgaria 2004+

Regional Wildland Fire
Advisory Group
Turkey 2004



Regional Wildland Fire Networks (II)



- **Regional Balkan Wildland Fire Network**

UN-ECE Region: Team of Specialists on Forest Fire

Founded: 2002



Regional Consultation
and Conference on
Cooperation in Fire
Management in
Eastern Mediterranean,
Balkans, Near East
and Central Asia

Antalya, Turkey

30 March – 3 April 2004



Regional Wildland Fire Networks (II)



- **Regional Balkan Wildland Fire Network**



Antalya Declaration on
Cooperation in Wildland
Fire Management

Implementation:
Assistance provided by Turkey
to Georgia and Syria (Oct 2004)



Regional Wildland Fire Networks (III)



- **Regional Baltic Wildland Fire Network**

Core Activity Region within the UN-ECE Region:
FAO / ECE Team of Specialists on Forest Fire



Active since the 1990s

Established by the
UN-ECE/FAO Team of
Specialists on Forest Fire



Regional Wildland Fire Networks (III)



- **Regional Baltic Wildland Fire Network**

Core Activity Region within the UN-ECE Region:
FAO / ECE Team of Specialists on Forest Fire



Regional Consultations:

Russia 1996

Poland 1998

Finland 2000

Finland 2004



Regional Baltic Wildland Fire Conferences

1996 Russian Federation

Forest, Fire and Global Change



1998 Poland

First Baltic Conference on Forest Fires



2000 Finland

Baltic Exercise in Fire Information and Resources Exchange - BALTEX FIRE 2000

2004 Finland

*Baltic Wildland Fire Meeting:
Towards increasing efficiency of
regional cooperation in
wildland fire management*



Regional Wildland Fire Networks (IV)



- **Regional Sub Sahara Africa Wildland Fire Network**
Afrifirenet / SAFNet
Founded: July 2002



Regional Wildland Fire Networks (IV)



- **Regional Sub-Sahara Africa Wildland Fire Network**



Activities in 2004

Joint UN Inter-Agency
Training Course in
Advanced Fire Management
(June 2004)

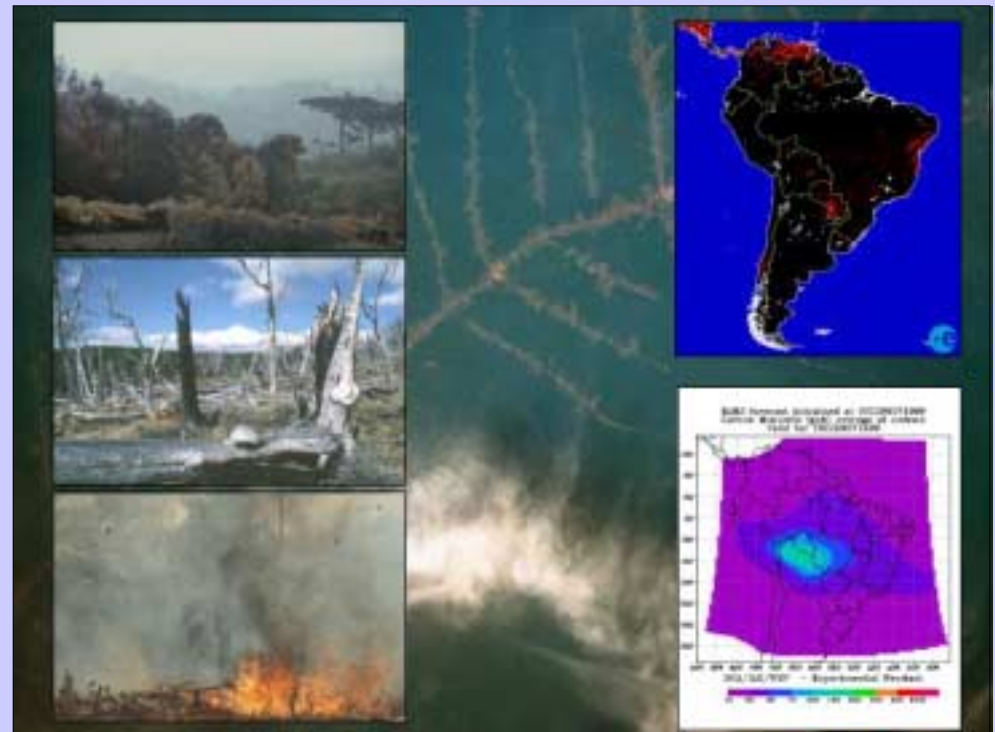
Training Course for Instructors
in Community-Based
Fire Management (CBFiM)
(November 2004)



Regional Wildland Fire Networks (V)



- Regional South America Wildland Fire Network



Regional Wildland Fire Networks (V)



- **Regional South America Wildland Fire Network**

Start: 17 June 2004

Curitiba, Brazil



Regional Wildland Fire Networks (V)



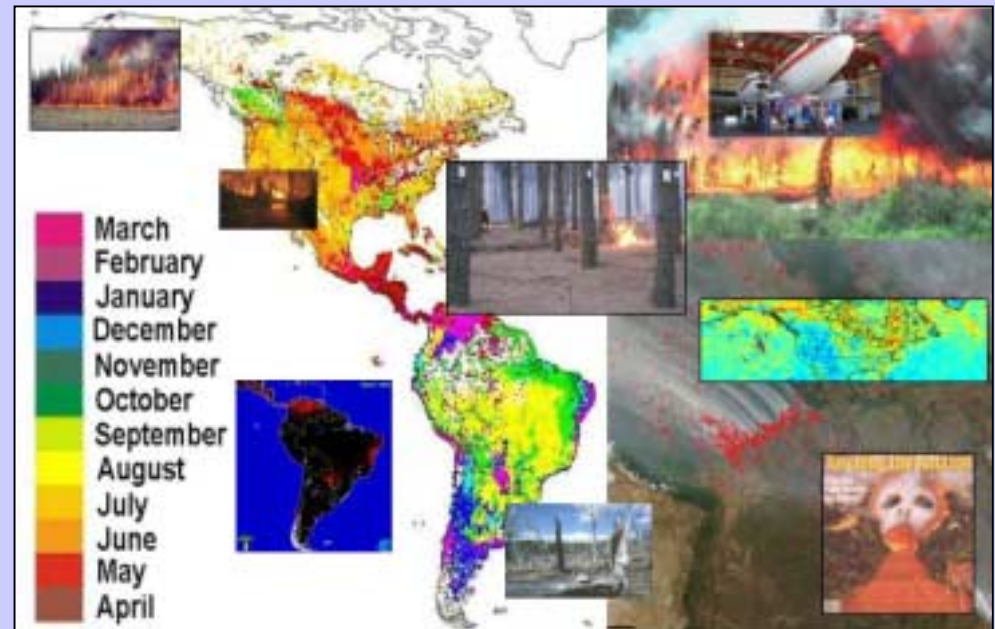
- **Regional South America Wildland Fire Network**

Start: 17 June 2004

Curitiba, Brazil



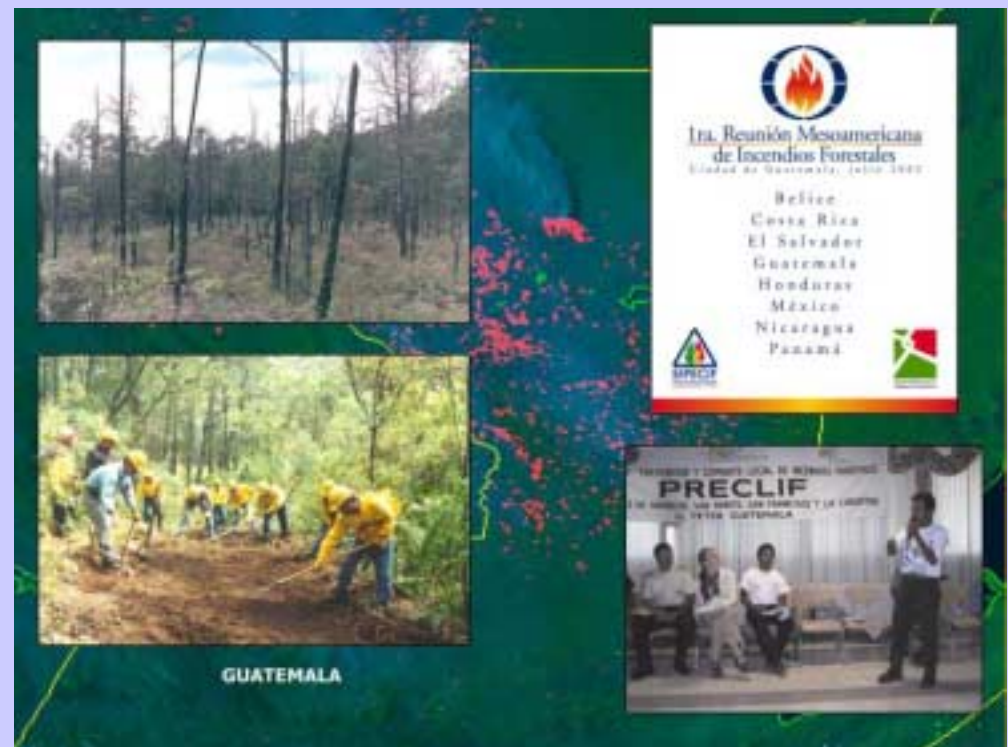
Consolidation at the
Pan-American
Wildland Fire Conference
San José, Costa Rica
23 October 2004



Regional Wildland Fire Networks (VI)



- **Regional Mesoamerica Wildland Fire Network**
Mesoamerica Regional Agreement
Signed: July 2002



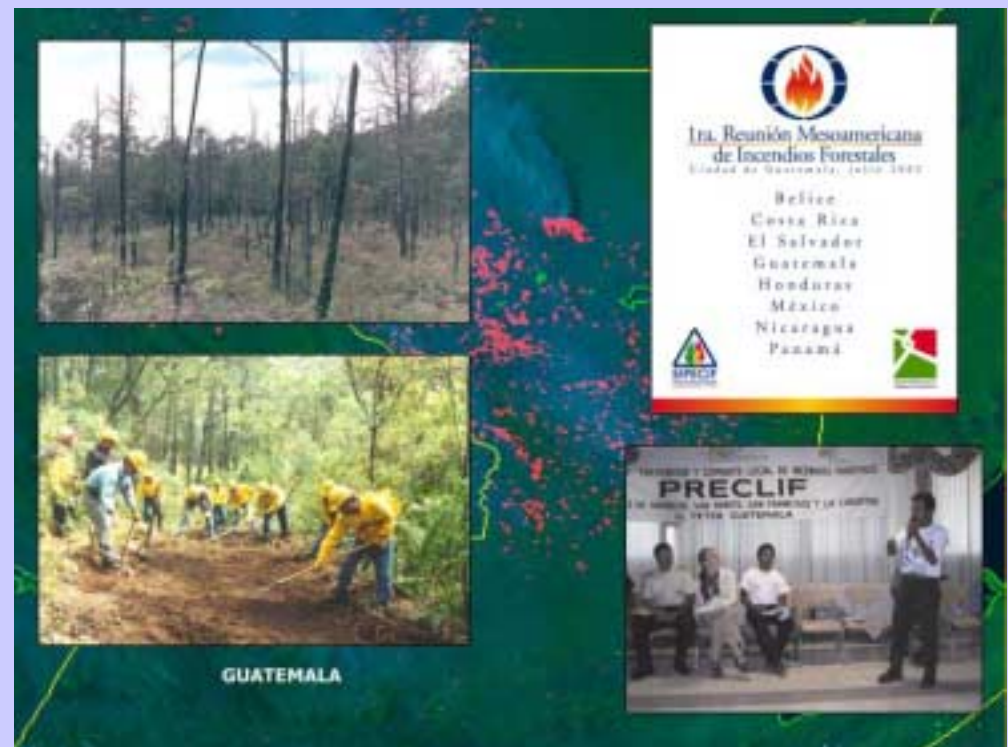
Regional Wildland Fire Networks (VI)



- **Regional Mesoamerica Wildland Fire Network**
Mesoamerica Regional Agreement
Signed: July 2002



Consolidation at the
Pan-American
Wildland Fire Conference
San José, Costa Rica
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Regional Wildland Fire Networks (VII)



- Regional North America Wildland Fire Network**

FAO North American Forestry Commission (NAFC)

Fire Management Working Group (established 1962)



Regional Partner of the
Global Wildland Fire
Network since 2004

Participation at the
Pan-American
Wildland Fire Conference
San José, Costa Rica
23 October 2004



Regional Wildland Fire Networks (VIII)

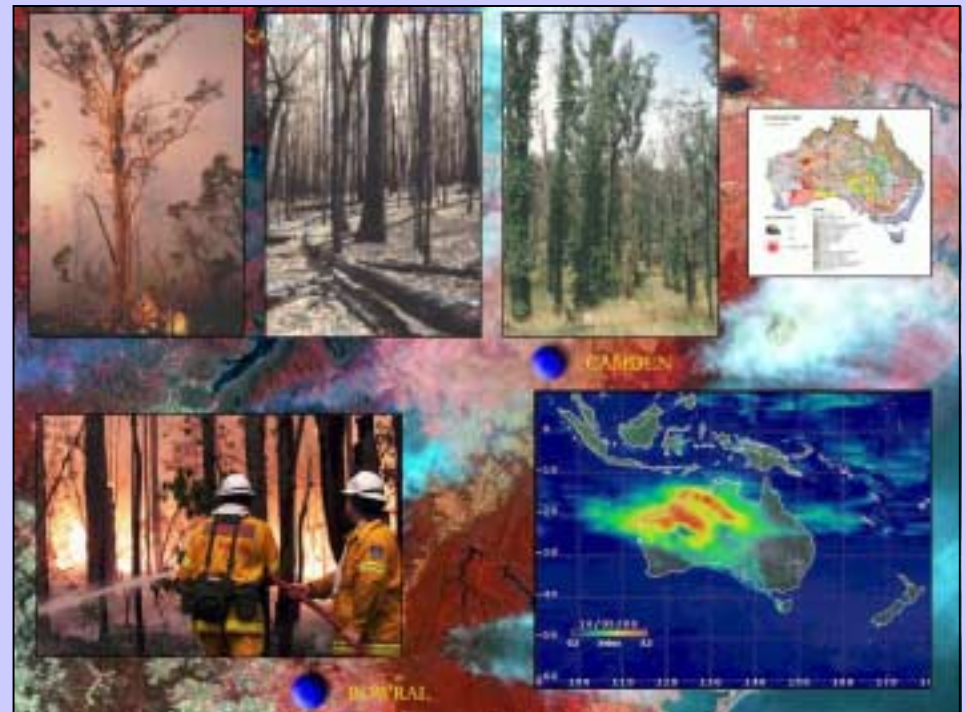


- **Regional Australasia Wildland Fire Network**
Australasian Fire Authorities Council (AFAC)

Since 1993: Australia, New Zealand
Pacific Region

AFAC Decision of
7 October 2004:

AFAC becoming
Regional Partner
in the Global Wildland Fire
Network



Regional Wildland Fire Networks (IX)



- **Regional Mediterranean Wildland Fire Network**

FAO Silva Mediterranea



Strategic Meetings
on Regional Cooperation
in Fire Management

June 2003

27 September –
1 October 2004



Regional Wildland Fire Networks (X)



- **Regional South East Asia Wildland Fire Network (ASEAN)**

ASEAN Transboundary Haze Agreement

Signed: June 2001

In Force: Nov 2003



Regional Wildland Fire Networks (XI)



- **Regional South East Asia Wildland Fire Network (ASEAN)**

ASEAN Transboundary Haze Agreement

Signed: June 2001

In Force: Nov 2003



Meeting of the ASEAN
Haze Technical Task Force (HTTF)
and
ASEAN Ministerial Meeting
on Haze (AMMH) / Conference
of the Parties (CoP)

Hanoi, Viet Nam
November 2004



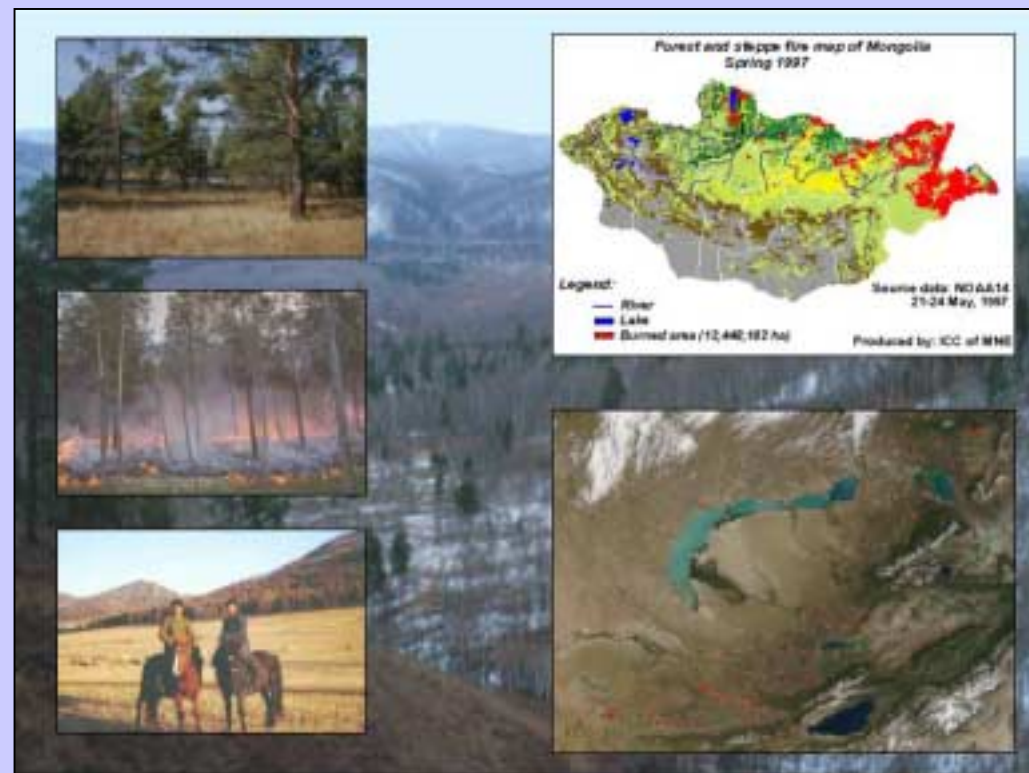
Regional Wildland Fire Networks (XII)



- **Regional Central Asia Wildland Fire Network**
UN-ECE Region: Team of Specialists on Forest Fire



Central Asia
Forestry Congress
Bishkek, Kyrgisia
25-27 November 2004



Regional Wildland Fire Networks (XII)



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Regional Wildland Fire Networks (XIII)



Regional South Asia Wildland Fire Network

t.b.d.

Countries to be
involved

India

Bhutan

Nepal

Sri Lanka

Pakistan



Global Wildland Fire Network



- **Meeting of all Regional Wildland Fire Networks**
As Members of the UN-ISDR Wildland Fire Advisory Group



@ Global Fire Monitoring Center (GFMC)
3-4 December 2004



Global Wildland Fire Network



- **Meeting of all Regional Wildland Fire Networks**
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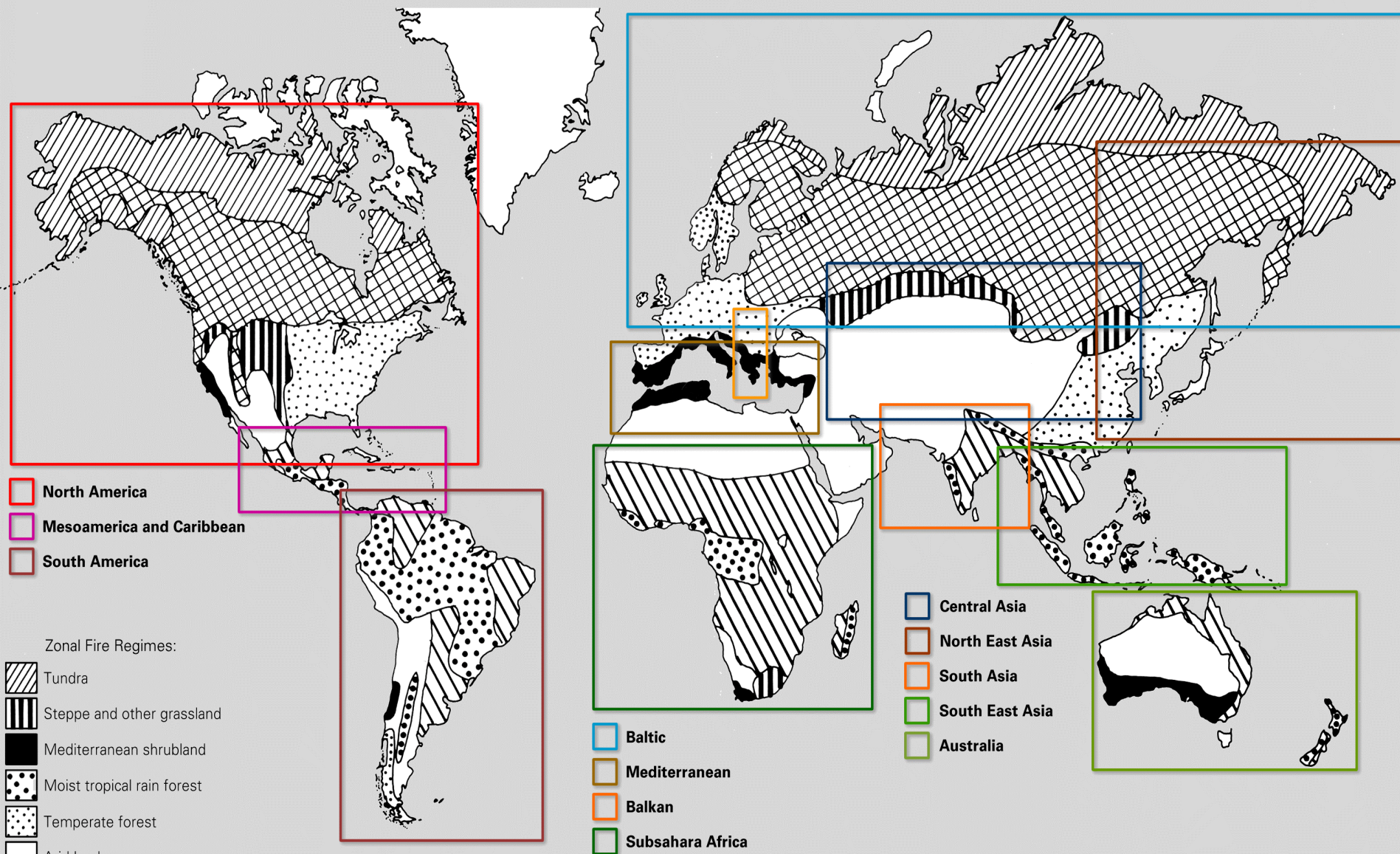
@ Global Fire Monitoring Center (GFMC)

3-4 December 2004

With other Members:

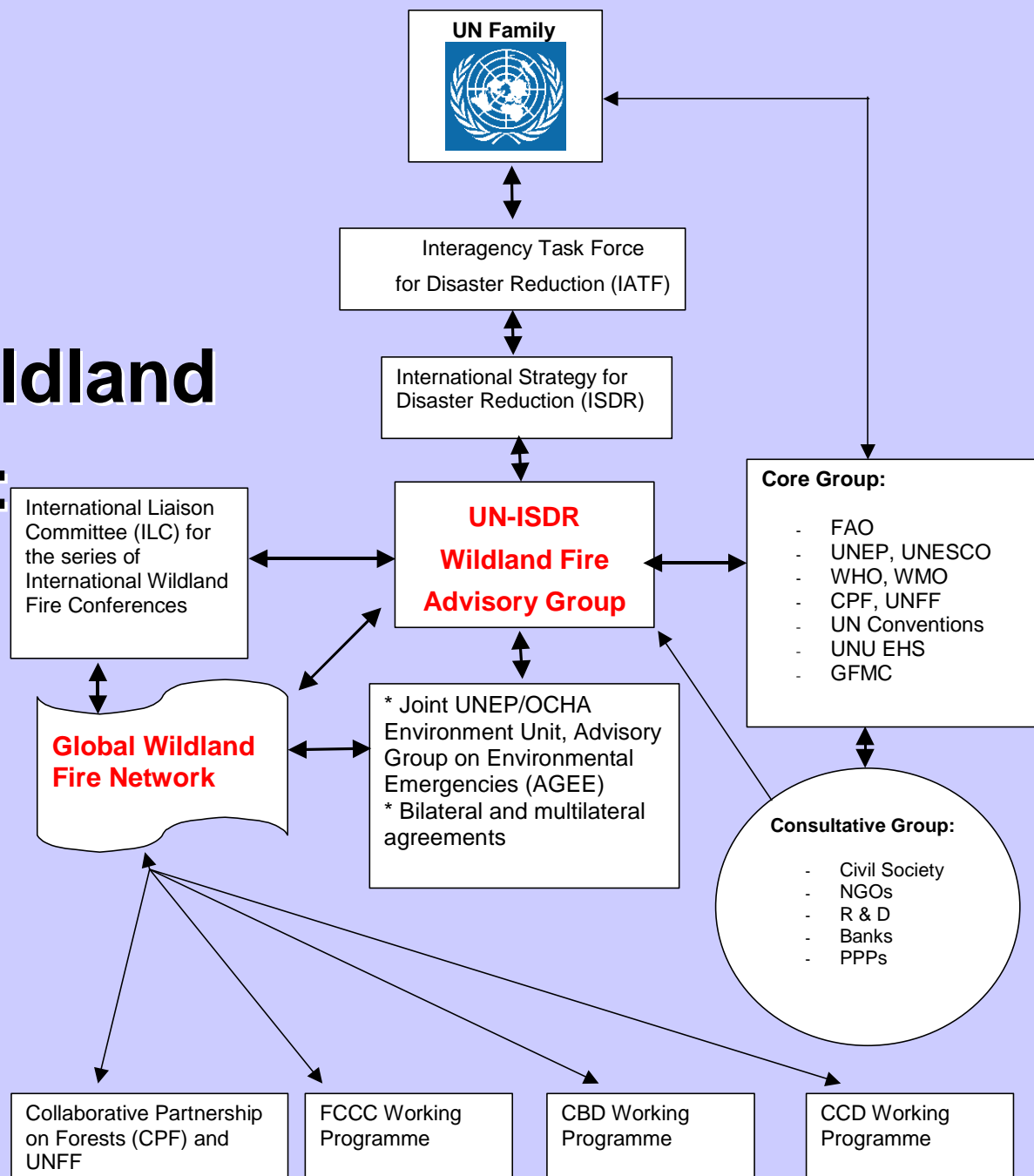
- ISDR
- FAO
- WMO
- UNU
- Rio Conventions
- UNFF





Towards developing an International Wildland Fire Agreement:

Partner
organizations
cooperating
with the UN



Roadmap to support the Development of an International Wildland Fire Agreement (2005)

➤ Regional conferences and consultations (early 2005):

- Second Meeting of the Regional Northeast Asia Wildland Fire Network (Sendai, Japan, 18 January 2005)**
- UN ISDR World Conference on Disaster Reduction (WCDR) (Kobe, Japan, 18-22 January 2005)**
- GOFC-GOLD Fire IT Meeting, Canadian Space Agency, Montréal, Canada, 7-9 February 2005**

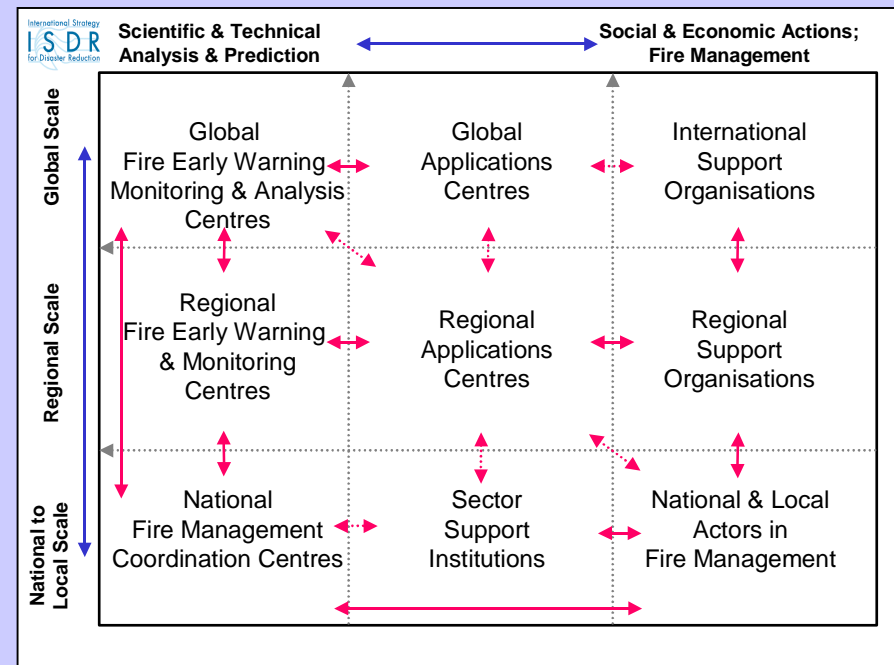
Roadmap to support the Development of an International Wildland Fire Accord (2005)

The final leg in 2005:

- **FAO Ministerial Meeting (Rome, 14 March 2005)**
- **UNFF Ministerial Segment (New York, May 2005) ?**
- **UN General Assembly Resolution on Cooperation in Wildland Fire Management ?**

Synergies with GOFC-GOLD

- **Building / consolidation of interface mechanisms between producers and consumers (national, regional, global)**



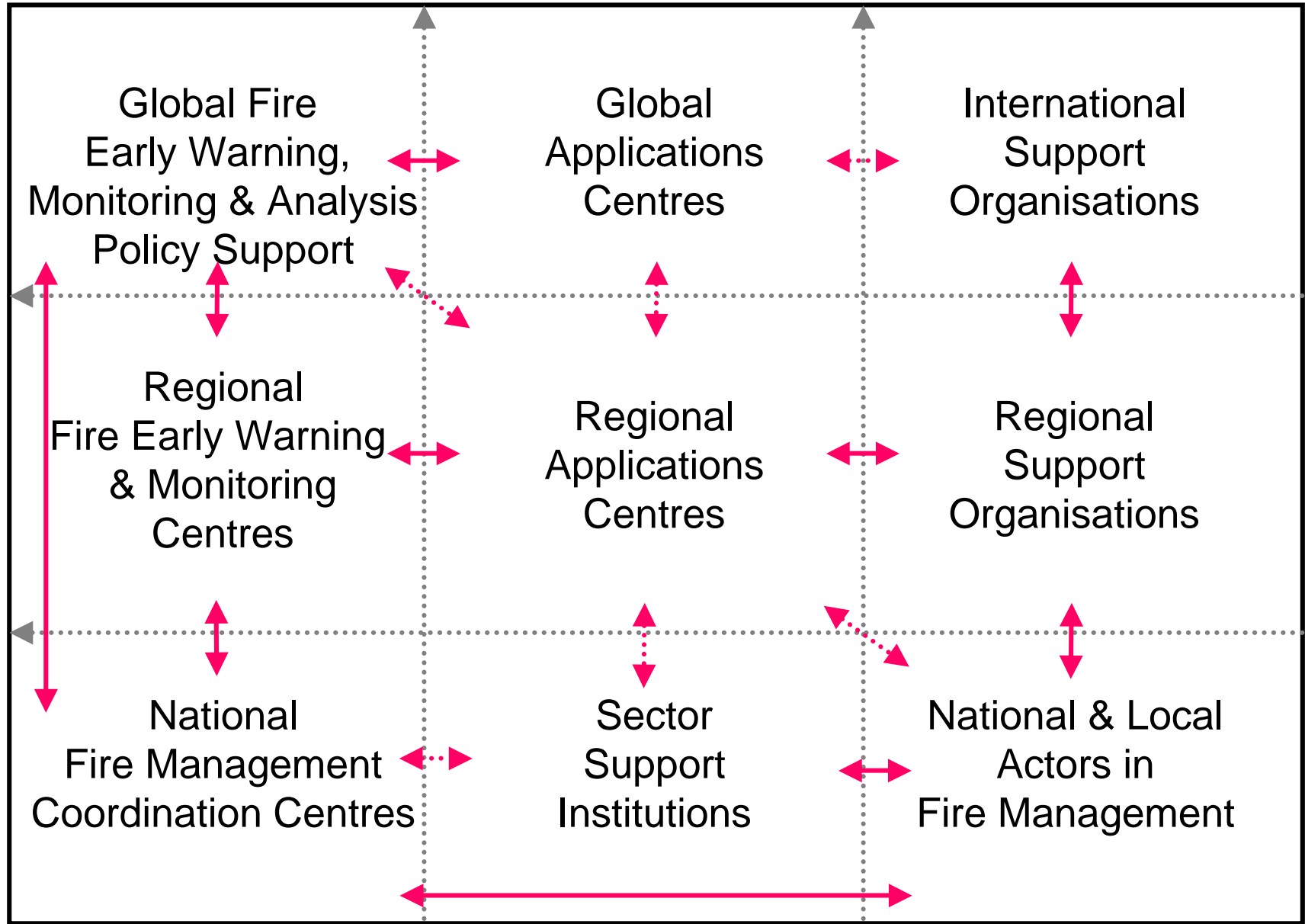
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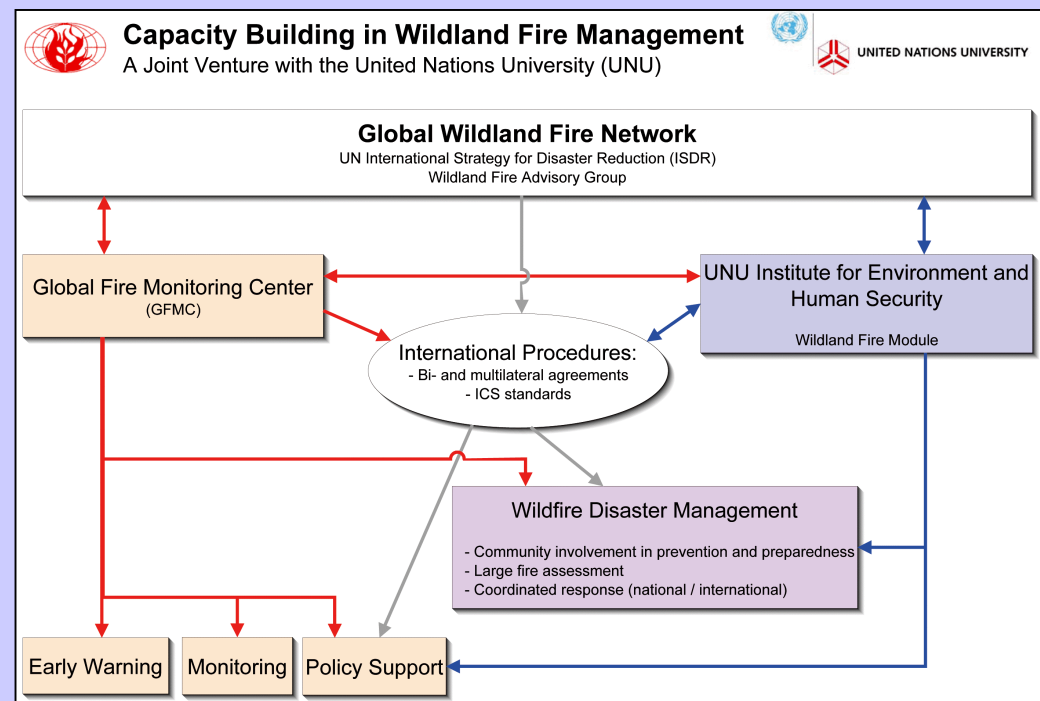
Regional Scale

**National to
Local Scale**



Synergies with GOFC-GOLD

➤ Capacity building



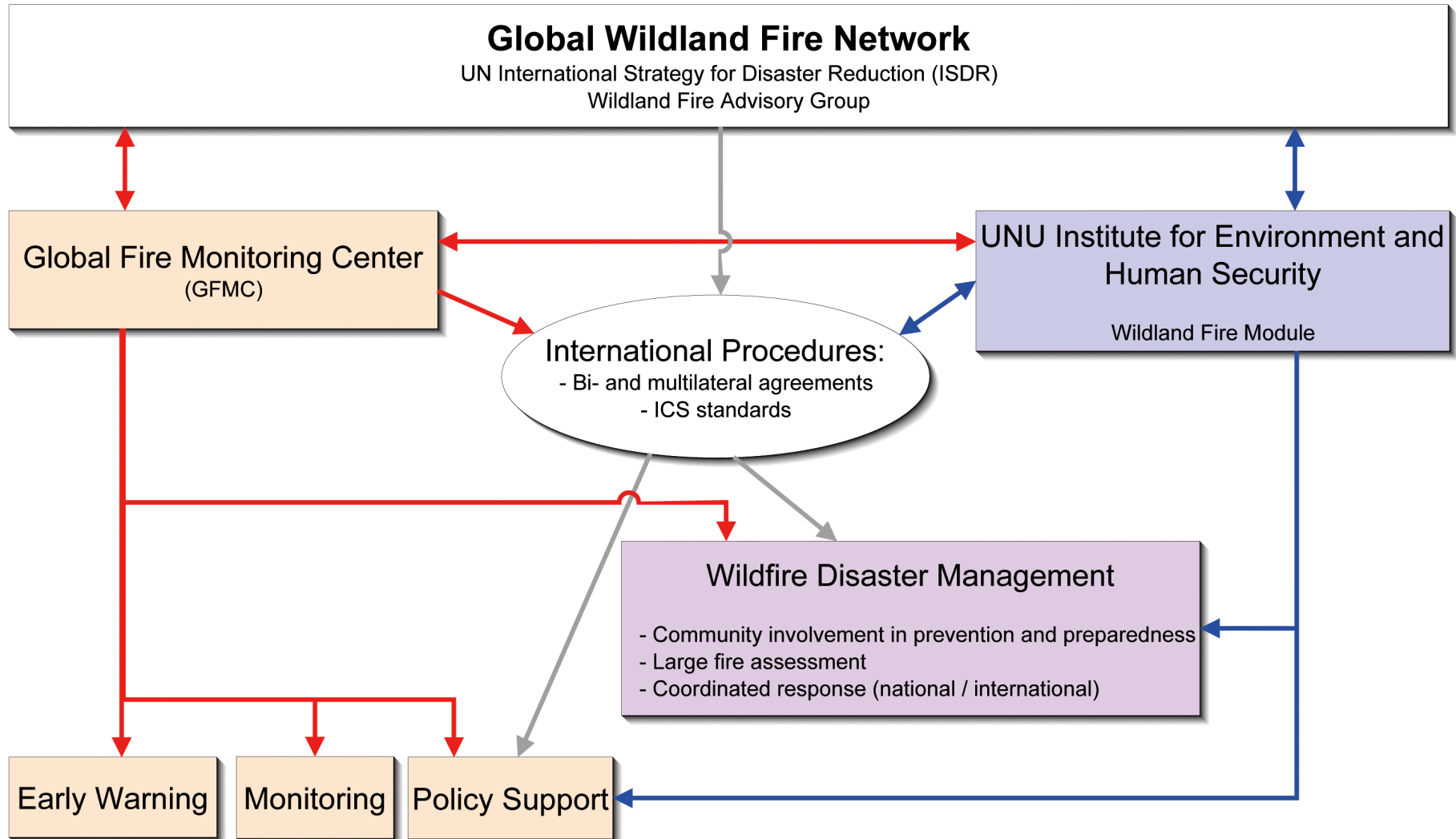


Capacity Building in Wildland Fire Management

A Joint Venture with the United Nations University (UNU)



UNITED NATIONS UNIVERSITY



The Way Ahead

Improvement of a coordinated approach between GOFC-GOLD and

- UNISPACE III Action Team 7**
- Application of the Charter ...**



Recommendations

(extracts from Fire Hazard Gaps Analysis – STSC 2003)

1. Improve satellite technologies and methods by designing systems optimal for fire hazards monitoring (linking spatial, spectral, temporal requirements)
2. Provide high-resolution data sets to validate existing methods and test models in forestry environments
3. Develop data weather models to facilitate daily and 1-2 day prediction of dead and live fuel moisture to augment or replace requirements for ground weather stations
4. Provide data for decision support models on prescribed fire smoke management and air quality assessment
5. In geographic areas where rapid response is required, develop operational satellite fire detection, monitoring, and data distribution systems...

Recommendations (cont.)

6. Provide affordable and rapid access to all high-resolution data streams (30m and higher) for burned area assessment and rehabilitation applications
7. Institute comprehensive global coverage of wildland fires to assess the scale of biomass burning
8. Develop sensors to monitor smoke to determine impacts on lower atmospheric chemistry - potential climate change, human health, & human safety
9. Ensure the continuity of the current civilian satellite systems to maintain their spectral, temporal, and spatial characteristics
10. Examine opportunities to develop and release declassified information products

Recommendations (cont.)

11. Develop international agreement to improve access to timely and affordable data for the fire management
12. Develop regional fire remote sensing expertise to provide leadership and direction in the use technologies
13. Increase funding and better coordination between research groups
14. Build on existing efforts to improve education, training, & communication between different users and providers
15. Integrate priority for processing satellite data for fire hazards monitoring into national and international processing facility operations

**Finally: Mangroves protecting coasts against Tsunami impacts (Phung-Nga Provinz, Thailand, 1 January 2005):
Implications of vegetation destruction on extreme
natural events**



GOFC-GOLD Fire IT Meeting

Canadian Space Agency, Montréal, Canada

7- 9 February 2005



Thank you for your attention