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Status of Building the Global Wildland Fire Network through Regional Wildland Fire Networks

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1. Rationale for Setting up Regional Wildland Fire Networks

In many vegetation types of the world, the application of fire in agriculture and pastoralism and the occurrence of natural wildfires (natural fire regimes) are established (sustainable) elements in traditional land-use systems, natural ecosystem processes and biogeochemical cycles. However, excessive application of fire associated with rapid demographic and land-use changes in some regions, leads to destruction of productivity, reduction of carrying capacity and biodiversity of the vegetation cover. In some ecosystems, e.g. in the tropical montane forests, lowland rain forests and in forest plantations, wildfires burning under extreme weather conditions have detrimental impacts on economies, human health and safety, with consequences which are comparable to the severity of other natural hazards. Climate variability, such as periodic extreme droughts and extremely wet periods caused by the El Niño-Southern Oscillation (ENSO) phenomenon and the associated La Niña episode, contribute to the severity of fire impacts. Fires are also leading to secondary natural disasters such as landslides and floods, downstream of fire-denuded landscapes.

Fire management strategies which include preparedness and early warning cannot be generalized due to the multidirectional and -dimensional effects of fire in the different vegetation types and the large variety of cultural, social, and economic factors influencing them.

However, unlike the majority of the geological and hydro-meteorological hazards, wildfires represent a natural but predominantly human-influenced hazard, which can be predicted, controlled and, in many cases, prevented.

The current state of wildland fire science and atmospheric sciences research of the last two decades potentially provide sufficient knowledge for fire management decision support and development of policies affecting the occurrence and consequences of human-caused fires. However, in many countries or localities, the requisite knowledge is either lacking or is not readily accessible for developing adequate measures in fire policies and management.

¹ The first version of this Status Paper has been published on the GFMC website on 27 July 2002. This Status Paper is the 31st update.

In response to the strategic goals of the UN Convention on Combat of Desertification (CCD), Convention on Biological Diversity (CBD), and the UN Framework Convention on Climate Change (UNFCCC), the Ramsar Convention on Wetlands the UN Forum on Forests (UNFF), the Millennium Declaration of the UN General Assembly, and the objectives of the work of the Global Fire Monitoring Center (GFMC) and the World Conservation Union (IUCN), the UN-ISDR Inter-Agency Task Force for Disaster Reduction in 2001 established a Working Group on Wildland Fire. This Working Group was coordinated by the GFMC.

One of the priority fields addressed by the Working Group on Wildland Fire was the establishment of, and operational procedures for, a global network of regional- to national-level focal points and network structures for early warning of wildland fire, fire monitoring and impact assessment, aimed at enhancing existing global fire monitoring capabilities and facilitation of international cooperation in fire management.

2. History, proposed *Modus Operandi*, Status and Visions for building the Regional Wildland Fire Networks

2.1 History

In keeping with the work of the Working Group on "Fire and Related Environmental Hazards" established under the IDNDR programme on Early Warning, the presentations and recommendations of the IDNDR Programme Forum 1999, and in accordance with the Framework for the Implementation of the International Strategy for Disaster Reduction (ISDR), the World Conservation Union (IUCN) and its associated partner, the Global Fire Monitoring Center (GFMC) as well as the UN-FAO/ECE/ILO Team of Specialists on Forest Fire, suggested, in 2000, to create an interagency "Working Group on Wildland Fire".

This proposal was in line with several declarations made in international conferences during the last five years and is intended to bring together both the technical members of the fire community and the authorities concerned with policy and national practices in wildland fire management to realise their common interests of fire risk management and disaster reduction at global scale. The Inter-Agency Task Force for Disaster Reduction (IATF) at its second meeting on 11 October 2000 agreed to establish the Working Group on Wildland Fire (Working Group 4 [WG-4]).

Through the Working Group it was envisaged to establish an interagency and inter-sectoral forum of UN and other international agencies and programmes, and mechanisms of information and task sharing in the field of reducing the negative impacts of fire on the environment and humanity.

One of the priority fields of activity to be addressed by WG-4 was:

- Establishment of, and operational procedures for, a global network of regional- to national-level focal points for early warning of wildland fire, fire monitoring and impact assessment, aimed at enhancing existing global fire monitoring capabilities and facilitating the functioning of a global fire management working programme or network.

At the 2nd meeting of WG-4 (3-4 December 2001) it was decided to give priority to the establishment of the "Global Network of Regional Wildland Fire Networks".

It was aimed to build regional networks on existing formal or informal networks structures and initiatives. The "Global Wildland Fire Network" would consist of a set of Regional Networks that are in place or will be initiated during the process of formation. A regional network may consist of several subnets or cooperative activities, e.g. in wildland fire science, fire monitoring, early warning, management or policy development.

2.2 Endorsement by the International Wildland Fire Summit

The envisaged timeframe for setting up the network was January 2002 - July 2003. The 3rd Global Wildland Fire Conference and the International Wildland Fire Summit (Sydney, 3-6 and 8 October 2003) was used as a platform to convene representatives from regional networks.

The strategy agreed by the Summit ("Strategy for Future Development of International Cooperation in Wildland Fire Management") includes the following agreement:

"The Regional Wildland Fire Networks will be consolidated, developed and promoted through active networking in information sharing, capacity building, preparation of bilateral and multilateral agreements, etc. This process will be facilitated through regional Wildland Fire Conferences and Summits in cooperation with the International Liaison Committee and the UN-ISDR Working Group on Wildland Fire".

For details of the preparation and outcomes of the International Wildland Fire Summit see:

<http://www.fire.uni-freiburg.de/summit-2003/introduction.htm>

2.3 Formation of the UN-ISDR Wildland Fire Advisory Group

As a side event of the International Wildland Fire Summit a meeting was held with the regional fire management groups mandated under the auspices of the UN (ISDR Working Group on Wildland Fire, ECE/FAO/ILO Team of Specialists on Forest Fire, Fire Management Working Group, FAO North American Forestry Commission [NAFC] and the Forest Fire Group of FAO *Silva Mediterranea*). This was the first joint meeting of the four UN groups. A key output of the joint meeting was the recommendation to maintain a body under the auspices of the UN to enable the international community to maintain a unifying platform for the UN and jointly with non-UN groups and agreements.

The recommendation to maintain an advisory body for the UN must be understood i.a.w. the constitution of the IATF and the expected lifetime of a Working Group of ca. two to three years. Following these rules of the IATF the Working Group 4 on Wildland Fire finished its work by end of 2003 and transited to an active outreach programme, the Global Wildland Fire Network (GWFN). To support the work of the GWFN the IATF accepted the proposal to create a *Wildland Fire Advisory Group* (WFAG) under the auspices of the ISDR. The WFAG represents an advisory body to the UN system aimed at providing technical, scientific and policy-supporting advice to the UN family through the International Strategy for Disaster Reduction (UN-ISDR) and the IATF, and acting as a liaison between the United Nations system, the Global Wildland Fire Network and its supporting partners. The participation and support from following bodies is essential: UN agencies and programmes, other international organizations, non-government organizations, notably the IUCN-TNC-WWF Global Fire Partnership, government agencies, inter-governmental institutions and agreements, civil society, academia, the International Liaison Committee (ILC) of the series of International Conferences on Wildland Fire and the Global Fire Monitoring Center (GFMC) (to act as convener and secretariat).

The "Work Programme for the IATF for 2004" reflects the overall intent to work together in the Global Wildland Fire Network and the Wildland Fire Advisory Group. This programme includes a table in which the outcomes and follow-up arrangements for the four Working Groups are summarized (see Table 1).

In the transition stage from WG-4 to the WFAG the GFMC continued to facilitate the dialogue and direct interaction between the partners involved. The GFMC continues working through the IATF as a member and representative of civil society, ensuring appropriate information flow from the Global Wildland Fire Network to the ISDR Secretariat and the IATF, and providing advisory support required for the mandate of the IATF.

Table 1. Extract of the final version of the “*Work Programme for the IATF for 2004*” released by the ISDR Secretariat on 23 November 2003.

| WG focus 2001-2003 | Outcome end of 2003 | Follow-up arrangements- 2004 |
|---|---|--|
| WG4: Wildland Fire, chaired by: the Global Fire Monitoring Center (GFMC) | <p>International dialogue on cross-cutting wildland fire issues fostered at UN inter-agency level and with international organizations and civil society</p> <p>Establishment of Regional Wildland Fire Networks, including inter-regional cooperation</p> <p>GFMC-ISDR global wildland fire information system, web portal and pragmatic outreach to user community consolidated (including dedicated journal and book publications) <www.gfmc.org></p> <p>Support of preparation, facilitation and implementation of the first International Wildland Fire Summit (October 2003), including preparation of the Summit paper <i>Strategy for Future Development of International Cooperation in Wildland Fire Management</i></p> | <p>Formation of a Wildland Fire Advisory Group under the auspices of the ISDR-IATF and GFMC</p> <p>ISDR / IATF endorsement and support of the Global Wildland Fire Network (<i>IATF information updates to be provided</i>)</p> <p>Cooperation with the ASEAN Center for Emergency Response and Strategic Planning for Environmental Disasters</p> <p>ISDR / IATF endorsement of the outcomes of the International Wildland Fire Summit. Preparation of a Global Wildland Fire Summit under the auspices of the UN, i.a.w. recommendations by the 2003 Summit (tentatively in 2005-2006)</p> |

On 3-4 December 2004 the first meeting of the WFAG was convened at the GFMC (Freiburg, Germany). The objectives were the following:

- Constitutional: Reflect on the outcomes of the work of the former ISDR-IATF Working Group on Wildland Fire (WG-4) related to global wildland fire issues; define WG-4 transition to and *modus operandi* of WFAG, including membership with regional representation of the Global Wildland Fire Network
- Global situation assessment: Report on key issues on wildland fire in the regions of the Global Wildland Fire Network, notably the results of the consultations of the Regional Wildland Fire Networks in 2004; key scientific and other thematic issues.
- Technical: Thematic presentations and discussions on
 - Participation of Regional Wildland Fire Networks and GOFC / GOLD in the Global Forest Fire Assessment
 - Review of a proposed international standard for statistical reporting of wildland fires, including the FAO Forest Resources Assessment 2005 (FRA 2005)
 - The role of the United Nations University in capacity building in advanced wildland fire management
 - Innovative technologies for remote sensing of wildland fires and fire impacts
- Roadmap for 2005-2007
 - Evaluation of the regional consultations in 2004 and the GFMC/ISDR/FAO “Framework for the Development of the International Wildland Fire Accord” (May 2004)
 - Formulation of a recommendation of the WFAG / Global Wildland Fire Network for the Development of the International Wildland Fire Accord, directed to the FAO and UNFF Ministerial Meetings (March 2005 / May 2005), and the UN World Conference on Disaster Reduction (WCDR), Japan, January 2005

- Initial discussion about the role of wildland fire and fire management in the implementation of the Kyoto Protocol
- Discussion on the participation of the Global Wildland Fire Network at the 4th International Wildland Fire Conference (Sevilla, Spain, 13-17 May 2007)

Results of the discussions and the recommendations to the ministerial meetings can be found on the website of the Global Wildland Fire Network:

<http://www.fire.uni-freiburg.de/GlobalNetworks/RationaleandIntroduction.html>

2.4 FAO Ministerial Meeting on Forests and the 17th and 18th Session of the FAO Committee on Forestry (COFO) 2005 / 2007

The Ministerial Meeting on Forests held at the FAO, Rome, 14 March 2005, attended by more than 120 countries, released a statement in which the need for international cooperation in wildland fire management was stressed. The ministers agreed to

call on FAO, in collaboration with countries and other international partners, including the International Strategy for Disaster Reduction, to develop a strategy to enhance international cooperation on wildland fires, that advances knowledge, increases access to information and resources and explores new approaches for cooperation at all levels,

Following the Ministerial Meeting on Forests, the 17th Session of the Committee on Forestry (COFO) was held in Rome, 15-19 March 2005. International cooperation in wildland fire management was discussed in several sessions. The main recommendations in the final report include:

28. The Committee further noted that fire management was a national responsibility. It called on FAO to facilitate enhanced international cooperation on forest fires and requested FAO, in collaboration with countries and other international partners, including the United Nations International Strategy for Disaster Reduction, to develop a strategy to enhance international cooperation on wildland fire. It noted that the template for international cooperation in wildland fire management, as presented at the International Wildland Fire Summit in Australia in 2003, could be used by countries wishing to cooperate in this area.

35. The Committee also recommended that FAO should inform the fifth session of the United Nations Forum on Forests of the importance attached by the Ministerial Meeting on Forests and by the 17th Session of the Committee to international cooperation on forest fire management.

SHAPING AN ACTION PROGRAMME FOR FAO IN FORESTRY (Item 9)

53. The Committee recommended that FAO continue its support for regional and national networks to combat fire as well as insects and disease, in collaboration with relevant organizations such as the United Nations International Strategy for Disaster Reduction and the Global Wildland Fire Network, and further requested that FAO work with partners to develop voluntary guidelines on the prevention, suppression and recovery from forest fire.

Both documents can be downloaded at:

<http://www.fire.uni-freiburg.de/GlobalNetworks/RationaleandIntroduction.html>

Between September 2005 and April 2006 FAO was supported by an international core group of experts to implement the recommendations of the Ministerial Meeting and COFO-17. The group prepared a draft "Fire Management Code" – a guiding framework of principles necessary to support the policy, legal, regulatory and technical enabling conditions for fire management – and the draft "Global Strategy to enhance International Cooperation to facilitate Implementation of the Fire Management Code". These two documents were discussed and consolidated by the FAO Expert Consultation on Fire Management (Madrid, Spain, 10-12 May 2006). On 14 July 2006 the Draft Fire Management Code was published and open for comments and suggestions by international stakeholders between July and end of October 2006:

<http://www.fao.org/forestry/firemanagementcode>

Following the strong objections of Brazil and the concerns of several other countries concerning the designation of the guiding framework as a “Code”, the final draft of the document was entitled “Fire Management Voluntary Guidelines”.

An assessment and strategic plan for international and inter-agency cooperation to develop capabilities, systems and procedures to facilitate international cooperation in fire management was developed by the GFMC (“Review of International Cooperation in Fire Management“). Together with the “Fire management global assessment 2006“, a thematic study prepared in the framework of the Global Forest Resources Assessment 2005, these three documents are the main pillars of the “Global Strategy to Enhance International Cooperation in Fire Management”.

- <http://www.fao.org/forestry/site/35833/en/>

After the discussion and acceptance of the Global Strategy by COFO-18 (March 2007) the strategy was presented at the 4th International Wildland Fire Conference (cf. 2.5) where representatives of the Regional Wildland Fire Networks, countries and international organizations discussed and endorsed this voluntary international cooperative and collective process. At the conference FAO launched the “Fire Management Actions Alliance“ aimed to stimulate improved fire management and reduce damage from fire worldwide:

- <http://www.fao.org/forestry/site/firealliance/en/>

The Alliance, as a non-geographically based group, will work with the Global Wildland Fire Network in order to promote mutual goals and objectives in enhancing international cooperation in wildland fire management. The Alliance is without any prejudice to the status of each of its members. FAO, through its Forest Management Division, in collaboration with the secretariat of the UNISDR Global Wildland Fire Network and with support of members, provides communications, coordination and related services to the Alliance through the Secretariat. The Secretariat operates with voluntary contributions from members.

2.5 The 4th International Wildland Fire Conference

The 4th International Wildland Fire Conference was held in Sevilla, 13 to 17 May 2007, and was attended by 1531 participants from 88 countries. Building on the objectives and outputs of the previous International Wildland Fire Conferences (Boston 1989, Vancouver 1997, Sydney 2003), the objectives of the 4th Conference, which was held under the auspices of UNISDR, FAO and the European Commission, was to:

- Provide a forum for forest fire management leaders, politicians, professionals, researchers and practitioners from throughout the globe to discuss and work on critical fire issues affecting people, communities, resources and ecosystems in all Regions and work on a cooperative way in the consolidation of a Global Wildland Fire Management Strategy.
- Strengthen the effectiveness of the Regional Wildland Fire Networks and support their links into the UNISDR Global Wildland Fire Network.
- Provide a forum for the fire management industry, research organizations and fire specialists to display innovations, new technologies, products and methods for wildland fire management and interact with the Conference participants.

One of the main aims of the conference was to provide a platform for a meeting of all Regional Wildland Fire Networks, which are collaborating under the UNISDR Global Wildland Fire Network. All 13 regional networks contributed to the preparation of the conference. Papers, posters and reports provided comprehensive information on wildland fire issues around the world. In six joint regional sessions the Regional Wildland Fire Networks and representatives of the European Commission as well as other participants, discussed a self-assessment of the fire situation in the regions and formulated recommendations for future action in the regions, as well as globally. The post-conference website includes all regional session reports as well as the global conference report (see also Annex 4):

- <http://www.fire.uni-freiburg.de/sevilla-2007.html>

3. Modus Operandi of the Global Wildland Fire Network

On behalf of the ISDR the Global Fire Monitoring Center (GFMC) is facilitating the functioning of the Global Wildland Fire Network by supporting the establishment or consolidation of Regional Wildland Fire Networks and enhancing inter-regional communication and cooperation.

The GFMC liaises with existing operational and proposed international networks and institutions, notably:

- FAO Forestry Department
- UN-mandated regional teams (ISDR Wildland Fire Advisory Group, ECE/FAO/ILO Team of Specialists on Forest Fire, Fire Management Working Group of the FAO North American Forestry Commission (NAFC), Forest Fire Group of FAO *Silva Mediterranea*)
- The secretariats of the three Rio Conventions (UNCDB, UNCCD, UNFCCC)
- United Nations University, Institute for Environment and Human Security (UNU-EHS)
- Global Observation of Forest Cover - Global Observation of Landcover Dynamics (GOFC-GOLD) Fire Implementation Team (a subset of the Global Terrestrial Observing System - GTOS)
- Advisory Group on Environmental Emergencies (AGEE) and the Joint Environment Unit of the United Nations Office for the Coordination of Humanitarian Affairs (OCHA) and the United Nations Environment Programme (UNEP)

The Regional Wildland Fire Networks may consist of focussed subnets or will be complemented by any other topical network. The harmonization with the objectives and efforts of other independent networks is desired. The regional Fire Implementation Teams of the Global Observation of Forest Cover - Global Observation of Landcover Dynamics (GOFC-GOLD) will play a key role in the formation and operational functioning of the Wildland Fire Monitoring Networks (see: <http://www.gofc-fire.umd.edu/>).

4. Status of the Regional Wildland Fire Networks

Regional Networks are formed in two ways. First, independent regional initiatives that were in place before 2001-2002 and after have been contacted and encouraged to become connected to the Global Wildland Fire Network. Second, a number of activities are being initiated in those regions where no such regional efforts are in place. The following information is taken from the website of the Global Wildland Fire Network:

<http://www.fire.uni-freiburg.de/GlobalNetworks/globalNet.html>

Regional Sub Sahara Africa Wildland Fire Network

The Regional Sub Sahara Wildland Fire Network ("Afrifirenet") was the first regional network that has been launched formally. On 3 July 2002 the network was kicked-off at its first official meeting held in the frame of the Wood for Africa Conference (Pietermaritzburg, South Africa). As of early 2004 more than 70 representatives from 13 African countries have registered as members of the network. An Advanced Wildland Fire Management Course (a Joint UN Inter-Agency Training Course with participation of UNEP, FAO and the United Nations University, Institute for Environment and Human Security [UNU-EHS]) for the SADC Region, sponsored by the German Foreign Office, Office for the Coordination of Humanitarian Assistance, has been held in Nelspruit, South Africa, 31 May - 5 June 2004. At the training course the Wildland Fire Management Training Handbook published by the GFMC was launched publicly. Between 30 October and 12 November 2004 a first joint FAO/GFMC/UNU-EHS Training Course for Instructors in Community-Based Fire Management (CBFiM) for Sub Sahara Africa was held in Nelspruit, South Africa. Together with Working on Fire (WoF) – one of the official partner organisations within Afrifirenet aiming at implementing Integrated Fire Management in South Africa – two training courses "Intermediate and Advanced Incident Command System" were held in South Africa between 2005 and 2008. In early 2006 WoF took over administration and coordination of the network. AfriFireNet is supporting the SavFire experiments in Kruger National Park 2006-2010. In 2011 AfriFireNet / WoF will host the 5th International Wildland Fire

Conference in South Africa. A website for the regional network is available on the GFMC information system at: <http://www.fire.uni-freiburg.de/GlobalNetworks/Africa/Afrifirenet.html>
Working on Fire (WoF) website hosted by GFMC: www.workingonfire.org

Regional South East Asia Wildland Fire Network

At the World Conference on Land and Forest Fire Hazards (Kuala Lumpur, Malaysia, June 2002) two significant events paved the road for improving cooperation in fire management within the ASEAN (Association of South East Asian Nations) region and at international level. Building on almost a decade of cooperation in reducing the impacts of smoke-haze from land-use fires on the region the signing of the legally binding ASEAN Agreement on Transboundary Haze Pollution (10 June 2002; meanwhile ratified and entered into force on 25 November 2003) constitutes a multinational agreement for cooperation in fire management. At the ASEAN Senior Officials for Environment (ASOEN) Haze Technical Task Force meeting (10 June 2002) and the subsequent ASEAN Ministerial Meeting on Haze (11 June 2002) it was recommended that the ASEAN nations work together with the GFMC to liaise the activities within ASEAN ("South East Asian Wildland Fire Network") into the Global Wildland Fire Network. The ASEAN Secretariat will serve as a regional network coordinator.

The last Haze Technical Task Force (HTTF) meeting and the 11th ASEAN Ministerial Meeting on Haze has been held back to back with the First Meeting of the COP to the Haze Agreement, 8-11 November 2004, Hanoi, Viet Nam. All ASEAN countries participated at the FAO Ministerial Meeting on Forests. In May 2006 a "Conference on Promoting Partnerships for the Implementation of the ASEAN Agreement on Transboundary Haze Pollution" was held in Ha Noi Viet Nam. Partner countries and organizations were invited to establish partnerships for the implementation of the Agreement. The GFMC participated at the conference on behalf of the Global Wildland Fire Network.

Starting in May 2003 the ASEAN Secretariat initiated the conceptual design of the South East Asia Fire and Haze Information Center (other working title: ASEAN Center for Emergency Response and Strategic Planning for Environmental Disasters). This facility will largely take over the role of the network information system. The regional websites are:

ASEAN Haze Action Online Website: <http://www.haze-online.or.id>

GFMC Regional Website:

<http://www.fire.uni-freiburg.de/GlobalNetworks/SouthEastAsia/ASEAN-FireNet.html>

Regional North East Asia Wildland Fire Network

This network includes the participation of the Republic of Korea (South Korea), Democratic People's Republic of Korea (North Korea) (not yet confirmed), Japan and the Far East of the Russian Federation. During the International Wildland Fire Summit the representatives of the Republic of Korea have indicated a strong interest to support the formation of a regional node in South Korea. In November 2003 the Korean Forest Research Institute, Forest Fire Division, made its resources available to build the regional network. A kick-off meeting has been held in Seoul on 6 March 2004. As a follow-up activity a representative of the network stayed at the GFMC in August/September 2004. The 2nd Regional Northeast Asia Wildland Fire Network meeting was held 18 January 2005, Sendai, Japan (in conjunction with the UN World Conference on Disaster Reduction (Hyogo, Kobe, Japan, 18-22 January 2005). An International Symposium on Forest Fire Protection was held by the National Research Institute of Fire and Disaster, Mitaka, Tokyo, Japan, Tokyo, 30 November - 2 December 2005. During a side event of the network plans for the 3rd regional meeting were consolidated. The First International Northeast Asia Forest Fire Conference and the third meeting of the Regional Northeast Asia Wildland Fire Network was held 28-30 September 2006 in Khabarovsk, Russian Federation), followed by the 4th meeting in Harbin, China, 16-17 December 2007. Regional website:

<http://www.fire.uni-freiburg.de/GlobalNetworks/Northeast-Asia/Northeastasia.html>

Regional Central Asia Wildland Fire Network

Central Asia and its neighbour countries have recently suffered major forest and other wildland fire problems. The causes of an increasing occurrence of wildfires in forests and other wildlands, including the underlying reasons for increasing human-caused fires, vary within the region and are due to (1) the transition from centrally planned to market economies, (2) national to regional conflicts, creation of new nations, involving political tensions and war; (3) increasing population growth and land-use pressure, and (4) regional climate change involving an increasing occurrence of extreme droughts.

The need has been recognized to initiate regional cooperation in wildland fire management, including wildland fire science. The "ECE/FAO International Conference on Management of Forest Fire Emergencies and International Cooperation in the Eastern Mediterranean, Balkans and adjoining Regions of the Near East and Central Asia" (Turkey, April 2004) provided an opportunity to clarify detailed objectives and modus operandi of the networking arrangement. The conference released the "*Antalya Declaration on Cooperation in Wildland Fire Management in the Balkans, Eastern Mediterranean, Near East and Central Asia*". Follow-up discussions were held in Almaty, Kazakhstan, 20-21 July 2004 (participants: Focal Points from Kazakhstan, Russian Federation and GFMC). The GFMC presented the status of the regional network and the Global Wildland Fire Network at the Regional Central Asian Forest Congress "Forest Policy: Problems and Solutions", Bishkek, Kyrgyz Republic, 25-27 November 2004. In the Resolution of the congress the forest services of Kyrgyzstan, Uzbekistan, Tajikistan and Kazakhstan endorsed the participation in the Global Wildland Fire Network and the support of an international wildland fire accord. A regional network meeting was held in Irkutsk, Russian Federation, 8 September 2005. The First International Central Asian Wildland Fire Joint Conference and Consultation, jointly with the First Central Asian Forest Fire Experiment will be hosted by Mongolia in June 2008. Provisional regional website:

<http://www.fire.uni-freiburg.de/GlobalNetworks/CentralAsia/CentralAsia.html>

Results of the Antalya Conference with Antalya Declaration:

http://www.fire.uni-freiburg.de/course/meeting/meet2004_05.htm

Regional network meeting in Irkutsk (8 September 2005):

http://www.fire.uni-freiburg.de/GlobalNetworks/CentralAsia/CentralAsia_2.html

Regional Australasia Wildland Fire Network

In 1993 the Australian Fire Authorities Council (AFAC) was established to improve the collaboration and co-ordination of efforts between those Australian agencies with a responsibility for the protection of life and property from fire and other emergencies. The membership of agencies from the greater region saw AFAC's name change to the Australasian Fire Authorities Council in 1996. The current membership of AFAC stands at twenty-four full members and eleven associate members. All Australian fire and emergency agencies are full members of AFAC, as is the New Zealand Fire Service. Among the associate members are the Hong Kong Fire Service, Singapore Civil Defence Force and the Papua New Guinea Fire Service, while East Timor, Fiji, Samoa and Tonga are in the process of lodging applications under this membership category. AFAC aims to promote and coordinate activities in fire prevention, management and research through five Strategy Groups.

This regional arrangement offers the most suitable conditions for taking the lead in building the Regional Australasia Wildland Fire Network. This suggested arrangement has been discussed in March 2003 in Melbourne at the occasion of the meeting of the International Liaison Committee (ILC) of the 3rd International Wildland Fire Conference and International Wildland Fire Summit. At the 2004 AFAC meeting (7-9 October 2004, Perth, Australia) AFAC decided to join the Global Wildland Fire Network. The last regional meeting was held in 2007. For more details see:

AFAC Website: www.ausfire.com

GFMC Australasia Website:

<http://www.fire.uni-freiburg.de/GlobalNetworks/Australasia/Australasia.html>

Regional Mediterranean Wildland Fire Network

Following the discussions with FAO *Silva Mediterranea* in 2002 the formation of a Regional Mediterranean Wildland Fire Network is practically established under the auspices of this FAO group. A Workshop "Multilateral Assistance Against Forest Fires in the Mediterranean Basin" was held in Zaragoza, Spain, 10-11 June 2003. The objectives of the workshop included to study procedures to coordinate the existing mutual agreements and common legal and logistical tools to make effective, when needed, the multilateral assistance against forest fires within the Mediterranean Basin by sharing resources. A discussion was included about the possible role of the regional network and the GFMC to facilitate this process. The workshop was a preliminary activity to prepare a future Mediterranean conference on Multilateral Assistance against forest fires. Eastern Mediterranean countries participated at the "ECE/FAO International Conference on Management of Forest Fire Emergencies and International Cooperation in the Eastern Mediterranean, Balkans and adjoining Regions of the Near East and Central Asia" (Turkey, April 2004). The conference released the "*Antalya Declaration on Cooperation in Wildland Fire Management in the Balkans, Eastern Mediterranean, Near East and Central Asia*". Spain, acting as coordinator of the *Silva Mediterranea*

fire group, hosted the 4th International Wildland Fire Conference (see Annex 4). A regional workshop "Forest Fires in the Mediterranean Region: Prevention and Regional Cooperation" will be hosted by Italy (Circeo, 13-15 May 2008). For details see:

<http://www.fire.uni-freiburg.de/GlobalNetworks/Mediterrania/Mediterrania.html>

Results of the Antalya Conference with Antalya Declaration:

http://www.fire.uni-freiburg.de/course/meeting/meet2004_05.htm

The second seminar on "International Cooperation Programmes for Forest Fire Control in the Mediterranean Region" was held in Zaragoza, Spain, 27 September - 1 October 2004. For more information see:

<http://www.iamz.ciheam.org/ingles/incenfor-04-pub-ing.htm>

Regional Southeast Europe / Caucasus Wildland Fire Network

The first proposal for the formation of a regional network in SE Europe, particularly on the Balkan, was initially discussed by the Global Fire Monitoring Center (GFMC) in June 2002 to promote cooperation in wildland fire research and management under a "South East European Fire Management Network" (SEEFIRE). Envisaged participating countries included Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Hungary, the Former Yugoslav Republic of Macedonia, Romania, Serbia and Montenegro, and Slovenia. The SEEFIRE Network intended to address the problem of wildland fires (forest fires and fires in other vegetation types) that are increasingly observed in the SE European transition countries. SEEFIRE would establish an interactive network of institutions of all countries listed below that are involved in the prevention and control of wildland fire. At the occasion of the International Scientific Conference "Fire and Emergency Safety During the XXI Century - The Course of Europe" (31 October - 1 November 2002, Sofia, Bulgaria) the GFMC proposed the network formation with representatives of the Balkan Region.

A regional meeting of the International Commission for the Prevention and Extinction of Fires (CTIF) was convened in Bulgaria in February 2004 and discussed the establishment of a Regional Fire Monitoring Center. In March-April 2004 the "ECE/FAO International Conference on Management of Forest Fire Emergencies and International Cooperation in the Eastern Mediterranean, Balkans and adjoining Regions of the Near East and Central Asia" has been held in Turkey (for details: See Regional Central Asia Wildland Fire Network). The conference provided an opportunity to clarify detailed objectives and modus operandi of the networking arrangement. The conference released the "Antalya Declaration on Cooperation in Wildland Fire Management in the Balkans, Eastern Mediterranean, Near East and Central Asia". In the Antalya Declaration Bulgaria offered to host the Regional Fire Monitoring Center. In implementation of the Antalya Declaration Turkey assisted Georgia and Syria in responding to large forest fires in September and October 2004.

On 4-5 April 2005 the Republic of Macedonia hosted the International Technical and Scientific Consultation "Forest Fire Management in the Balkan Region". The conference was sponsored by the UN-ISDR Wildland Fire Advisory Group / Global Wildland Fire Network through its Coordinator and Secretariat, the Global Fire Monitoring Center (GFMC). Funding of the consultation was provided by the German Foreign Office (represented by the GFMC) and contributions by the participating and contributing countries (Albania, Bulgaria, Croatia, Greece, Hungary, Macedonia, Serbia and Montenegro, Turkey). In the meeting it was decided to expand the current focus on the Balkan Region to a "Regional South East European Wildland Fire Network" and invite countries adjoining to the Balkan region to cooperate. The network is jointly co-coordinated by a representative of the wildland fire research community (University of Skopje, Macedonia), a national forest services (Bulgaria, Forest Service) and a national fire service (Croatia, Fire Service). The regional consultation was followed by the "Eastern European, Near East and Central Asian States Exercise on Wildland Fire Information and Resources Exchange - EASTEX FIRE 2005", hosted by Bulgaria, 20-22 April 2005. At the 33rd Session of the FAO European Forestry Commission (Zvolen, Slovakia, May 2006) the network coordinator, supported by the GFMC, proposed the development of a Regional Strategy for Cooperation in Wildland Fire Management in Southeast Europe, to be sponsored by the FAO.

In June 2006 the GFMC proposed to the Council of Europe (CoE), European and Mediterranean Major Hazards Agreement (EUR-OPA) (Open Partial Agreement on the Prevention of, Protection Against, and Organisation of Relief in Major Natural and Technological Disasters), to include the Caucasus region to the network. This suggestion was supported by the GFMC report included in the findings of the OSCE-led Environmental Assessment Mission to Fire-Affected Areas in Nagorno-Karabakh, in Fulfilment of the UNGA Resolution A/RES/60/285 "The Situation in the Occupied Territories of

Azerbaijan” (7 September 2006).² Consequently it was proposed to designate the network “Regional Southeast Europe / Caucasus Wildland Fire Network”. In March 2007 a Regional Wildland Fire Consultation on the Development of a Strategy on International Cooperation in Wildland Fire Management in the Regional South East European / Caucasus Wildland Fire Network was held in Sofia, Bulgaria, 19-21 March 2007. The results were presented at the 4th International Wildland Fire Conference (Sevilla, Spain, May 2007). In July 2007 the international meeting on “Reducing Risk of Disaster from Catastrophic Wildfires in the Chernobyl Irradiated Forests” was held in Kiev, Ukraine, 26-27 July 2007, with the support of the GFMC/GWFN. After the extreme fire season in the Balkan region in 2007 a fire assessment mission to the FOR Macedonia recommended to call for a regional summit to address the underlying causes of increasing wildfire threats.

The website for the regional Southeast Europe / Caucasus Wildland Fire Network is available at:

<http://www.fire.uni-freiburg.de/GlobalNetworks/Balkan/Balkan.html>

Results of the Antalya Conference with Antalya Declaration:

http://www.fire.uni-freiburg.de/course/meeting/meet2004_05.htm

Recommendations of the Consultations in Ohrid 2005 and Sofia 2007:

http://www.fire.uni-freiburg.de/GlobalNetworks/SEEurope/SEEurope_1.html

EASTEX FIRE 2005 scope and programme:

http://www.fire.uni-freiburg.de/GlobalNetworks/SEEurope/SEEurope_4.html

Regional Baltic Wildland Fire Network

At the Baltic Exercise for Fire Information and Resources Exchange - BALTEX FIRE 2000 (Finland, June 2000) the UN ECE/ECE/ILO Team of Specialists on Forest Fires (now: FAO/UNECE Team of Specialists on Forest Fires), through the Global Fire Monitoring Center (GFMC), initiated a communication and coordination process among the countries bordering the Baltic Basin. BALTEX FIRE 2000 was an initiative devoted to strengthen cooperation in forest fire management and transboundary cooperation in large fire disasters between all countries bordering the Baltic Sea. Participants were the nations bordering the Baltic Sea (Estonia, Finland, Germany, Latvia, Lithuania, Norway, Poland, Russia, Sweden) and neighbouring observer countries (Belarus, United Kingdom). The initiative is the starting point for the Regional Baltic Wildland Fire Network structures. On 10 May 2004 a Regional Baltic Wildland Fire Meeting was held in Finland (host: Ministry for Interior, Finland). The conference participants released the *Helsinki Declaration on Cooperation in Wildland Fire Management in the Baltic Region*. One major activity in the Baltic Region is the European Fire in Nature Conservation Network (EFNCN), a networking mechanism in which European Partners cooperate in research and development in cultural and natural history and prehistory of fire, application of prescribed fire in nature conservation and landscape management, and fire ecology. Other active partners include the Pan-European fire research programme FIRE PARADOX (sponsored by the European Commission (2006-2010) and the Forest Fire Commission of the International Association of Fire and Rescue Services (Comité Technique International de Prévention et d'Extinction du Feu - CTIF). In 2006 the EU Leonardo da Vinci Programme granted support to GFMC and CTIF to develop a “Fire Management Handbook for European Fire Services” (EuroFire). EuroFire was presented at the 4th International Wildland Fire Conference (Sevilla, Spain, May 2007). In 2008 the mandate of the FAO/UNECE team will be extended in the frame of the Strategic Plan 2008-13 Of The Joint Integrated Programme on Timber and Forestry of the UNECE Timber Committee and FAO European Forestry Commission. The regional website at the GFMC is:

<http://www.fire.uni-freiburg.de/GlobalNetworks/BalticRegion/BalticRegion.html>

EFNCN website:

<http://www.fire.uni-freiburg.de/programmes/natcon/natcon.htm>

FIRE PARADOX website:

www.fireparadox.org

EuroFire website:

<http://www.euro-fire.eu/>

Regional Mesoamerica Wildland Fire Network

Several recent developments indicate the political willingness of nations in Central America and Mexico to share information and resources in fire management. An important regional initiative has been launched by the First Central Mesoamerican Meeting on Forest Fire Protection (*Primera Reunión*

² <http://www.fire.uni-freiburg.de/GlobalNetworks/SEEurope/N0720860-OSCE-UNGA-ENG.pdf>

Mesoamericana de Cooperación en Materia de Protección contra Incendios Forestales) held in Guatemala City, 8-9 July 2002. This regional meeting was organized in the frame of the project "Prevención y Combate de Incendios Forestales en Mesoamérica" of the "Programa Mesoamericano de Cooperación 2001-2002", launched at the occasion of the 4th Tuxtla regional dialogue. Delegates of Belice, Costa Rica, El Salvador, Guatemala, Honduras, México, Nicaragua and Panamá participated in the meeting. The countries agreed formally to launch a programme of cooperation which includes sharing of information and resources in fire management as well as in capacity building.³

The Mesoamerica Meeting was followed by a meeting in Honduras (*Taller para el Desarrollo de un Plan Estratégico Regional para el Manejo del Gorgojo del Pino y los Incendios Forestales en Centroamérica*, 26-30 August 2002) in which the representatives from Central America developed a strategic plan for fire and bark beetle management in Central America. The momentum created by the Mesoamerican Meeting and the Honduras Strategy is currently coordinated with the *Comisión Centroamericana de Ambiente y Desarrollo* (CCAD). A Technical Commission on Forest Fires and Pests has been established under the CCAB/AP.

Based on the Regional Strategic Plan elaborated in Honduras, two workshops were held during 2004 to develop a Regional Programme for Forest Fires and Pests (*Programa Regional de Administración de Plagas e Incendios Forestales*) (26-27 April 2004, Guatemala / 8-9 July 2004, El Salvador). The programme was approved and is receiving financial support from US-AID for the next two years.

Representatives from the Technical Commission on Forest Fires participated at the Foundation meeting of the Regional South America Wildland Fire Network (17 June 2004, Curitiba) (see next paragraph). A timetable for cooperative procedures between the three regions Central America, South America and the Caribbean is given in Table 2.

The Technical Commission on Forest Fires requested the CCAB/AP (17-19 August 2004, El Salvador) to officially create the Regional Central America and Mexico Forest Fire and Pest Network (*Red Regional de Centro América y México de Incendios y Plagas Forestales*) operating under the CCAD. The recommendations of the network have been presented at the Pan-American Wildland Fire Conference on 23 October 2004, San José, Costa Rica.

At the FAO TCP/RLA/3010 Mesoamerica Subregional Technical Workshop (*Taller Técnico Subregional de Mesoamérica*, 24-26 May 2005, Panama) national fire focal points developed the first draft of the Central American Strategy on Fire Management 2005-2015 (*Estrategia Centroamericana para el Manejo del Fuego*). During the Technical Committee on Forestry (*Comité Técnico de Bosques, CTB*) Meeting (21-22 July 2005, Nicaragua) regional forestry directors accepted draft number 4 of the Strategy and requested the focal points to prepare an Action Plan until the next CTB Meeting to be held on 1-2 September 2005 in Costa Rica. Assistance in developing this Action Plan was provided by the Central America Forest Strategy (*Estrategia Forestal Centroamericana, EFCA*). The final version of the Strategy has been published by CCAD in March 2006. In the frame of this Strategy it was decided to establish the Fire Management Working Group of Central America (*Grupo de Trabajo Centroamericano para el Manejo del Fuego*) (replacing the Technical Commission on Forest Fires and Pests), which has to be consolidated under the CTB of the CCAD. The Working Group will be integrated by the coordinators of the national fire management programmes of each country (acting as focal points) that need to have the official institutional support of their respective governments. The Working Group will be chaired by the focal point, whose country is holding the temporary presidency of the CCAD and co-chaired by the focal point whose country will hold the temporary presidency in the following period.

³ In June 2003 consultations were held with the Government of Guatemala concerning cooperation between the *Mesoamerican Cooperation Regarding Protection against Forest Fires* and the GFMC. A Memorandum of Understanding was signed by the Mesoamerican Permanent Technical Group on Forest Fires (*Grupo Técnico Mesoamericano Permanente sobre Incendios Forestales*), represented by the President of the Coordinating Council of the *Sistema Nacional de Prevención y Control de Incendios Forestales* (SIPECIF), Guatemala, and Executive Coordinator of the Presidency of Guatemala, and the Global Fire Monitoring Center (GFMC), UN International Strategy for Disaster Reduction (ISDR), Working Group on Wildland Fire, concerning Cooperation in the Global Wildland Fire Network through active participation of the Regional Mesoamerica Wildland Fire Network.

Together with the South America and Caribbean Strategies (see below) a Regional Strategy on Cooperation in Wildland Fire Management in Latin America and the Caribbean was finalized in a regional meeting in Santiago de Chile, 3-4 November 2005.

On 12-13 June 2006 a Meeting of the Fire Management Working Group of Central America took place at CCAD in El Salvador. It was agreed to strengthen the webpage of the Working Group, consolidate the Regional Central American Wildland Fire Network, carry out meetings with key persons to promote the application of the Central American Strategy on Fire Management in each country, as well as reprint the Strategy and include the logos of FAO, AID and DOI.

Together with the three sub-regional strategies, the regional strategy was discussed and approved during the 24th Session of the Latin American and Caribbean Forestry Commission (Santo Domingo, Dominican Republic, 26-30 June 2006). The strategy was presented at the 4th International Wildland Fire Conference (Spain, 2007) and followed by the "Central American Fire Management Forum (San Salvador, 30-31 October 2007).

All materials on the cooperative processes in the Mesoamerica Region are available at:

<http://www.fire.uni-freiburg.de/GlobalNetworks/MesoAmerica/MesoAmerica.html>

Webpage of the CCAD Fire Management Working Group of Central America:

http://www.ccad.ws/tecnicos/ccab_incendios.html

Results and declaration of the Pan-American Wildland Fire Conference:

<http://www.fire.uni-freiburg.de/GlobalNetworks/Panamerica/Panamerican-Conference.htm>

Regional South America Wildland Fire Network

The United Nations Environment Programme (UNEP) in 2001-2002 proposed the creation of a Latin American initiative in fire management. Although this proposal had not been implemented, several regional institutions have indicated their interest to build a Regional South America Wildland Fire Network. The formation of the network was discussed at a foundation meeting which took place in tandem with the 3rd South American Symposium on Forest Fire Control (3^o Simpósio Sul-Americano sobre Controle de Incêndios Florestais), 14-17 June 2004, Curitiba, Brazil, see:

http://www.fire.uni-freiburg.de/course/meeting/meet2003_14.htm

This foundation meeting was sponsored by the Global Wildland Fire Network (through GFMC), FAO, GOFC-GOLD, The Nature Conservancy (TNC) and the U.S. Forest Service. The recommendations of the Network Foundation Meeting finalized after electronic follow-up discussion by mid of July 2004) have been presented to the participants of the Pan-American Wildland Fire Conference, 23 October 2004 in Costa Rica. This conference was a joint event of the Regional Wildland Fire Networks of South America, Mesoamerica and the Caribbean as well as of the joint meeting of the members of the FAO Forestry Commissions of North America and Latin America / Caribbean. Table 2 indicates the timetable for the network formation process between the Curitiba meeting and the FAO Ministerial Meeting on Forests at which wildland fire was be a major agenda item (FAO, Rome, 14 March 2005) (for details: See Annex 3, "Framework for the Development of the International Wildland Fire Accord").

At the FAO TCP/RLA/3010 South America Subregional Technical Workshop (*Taller Técnico Subregional de Sudamérica*, 21-23 June 2005, Curitiba, Brazil) national fire focal points developed the first draft of the South American Strategy on Fire Management 2006-2010 (*Estrategia de Cooperación de América del Sur para el Manejo del Fuego*). In the frame of this Strategy it was decided to establish the Fire Management Working Group of South America under the COFLAC. The network is co-chaired by PREVFOGO / IBAMA (Brasília, Brazil), the Federal University of Paraná (Curitiba, Brazil), and the National Forestry Corporation (CONAF), Chile.

Together with the Central America and Caribbean Strategies a Regional Strategy on Cooperation in Wildland Fire Management in Latin America and the Caribbean was finalized in a regional meeting in Santiago de Chile, 3-4 November 2005 and was discussed and at the 24th Session of the Latin American and Caribbean Forestry Commission (Santo Domingo, Dominican Republic, 26-30 June 2006). In 2007 IBAMA and COFLAC signed a MoU on technical cooperation and development of the South American Strategy on Fire Management (Memorando De Entendimiento Para la Cooperacion Tecnica y el Desarrollo de la Estrategia de Cooperación de América del Sur Para el Manejo del Fuego) and agreed on an operational bi-annual plan for the Secretariat of the network (Plan Operativo BIANUAL de la Secretaria Ejecutiva del Grupo de Trabajo de América del Sur de Manejo del Fuego). In

2007 a regional conference “Incendios forestales: amenazas y desafíos en un escenario de calentamiento global” was held at SILVOTECNA XXII (8-9 November 2007, Concepción, Chile) in which consequences of global warming on wildland fires and options for management response were addresses.

Information concerning the progress of forming the South America Wildland Fire Network is available on the web:

<http://www.fire.uni-freiburg.de/GlobalNetworks/SouthAmerica/SouthAmerica.html>

Results and declaration of the Pan-American Wildland Fire Conference:

<http://www.fire.uni-freiburg.de/GlobalNetworks/Panamerica/Panamerican-Conference.htm>

Table 2. Timetable of action for the Regional Wildland Fire Management Networks in South America, Central America and the Caribbean

| Date / Timeframe | Regional Wildland Fire Networks | | |
|-------------------------------------|--|--|---|
| | South America | Central America | Caribbean |
| July 2004 | Establishment of the Initial Working Group | Meeting and consolidation of Central America Network (CCAD/CCAB, Mesoamerica process, Honduras Strategy) | Preparation of network foundation meeting |
| August 2004 | Electronic discussion | | |
| September 2004 | | | |
| 21 Oct 2004 San José, Costa Rica | Regional network meeting | Regional network meeting | |
| 22 Oct 2004 San José, Costa Rica | <p>Morning: Continuation of regional network meeting (parallel to final COFLAC session). Meeting of the International Liaison Committee (ILC) for the preparation of the 4th International Wildland Fire Conference (Madrid 2007)</p> <p>Afternoon: Joint meeting of Regional Wildland Fire Networks (South America, Central America, Caribbean): Mutual information on regional network activities and development of a proposal for the Pan-American Wildland Fire Conference. Separate or joint meeting of the North American network (NAFC Fire Management Working Group - FMWG).</p> | | |
| 23 Oct 2004 San José, Costa Rica | <p>Pan-American Wildland Fire Conference: Definition of a Pan-American Action Plan on Cooperation in Wildland Fire Management (with the participation of all four regional networks in the Americas)</p> <p>Results and declaration of the conference: http://www.fire.uni-freiburg.de/GlobalNetworks/Panamerica/Panamerican-Conference.htm</p> | | |
| 24 Oct 2004 San José, Costa Rica | Wrap-up meeting of all networks of the Americas and the Caribbean | | |
| Nov 2004 – Feb 2005 | Follow-up of the Pan-American Conference: Fundraising, preparation of FAO ministerial meeting | Follow-up of the Pan-American Conference: Fundraising, preparation of FAO ministerial meeting | Follow-up of the Pan-American Conference: Fundraising, preparation of FAO ministerial meeting |
| 14 March 2005 17 March 2005 | <p>FAO Ministerial Meeting on Forests at which wildland fire will be one of two agenda items</p> <p>The FAO Committee on Forestry (COFO) will discuss the implementation of the recommendations of the Ministerial Meeting</p> | | |
| May / June 2005 | TCP/RLA/3010 (C) - Support to the development of a Regional Cooperation Strategy for the Prevention, Control and Combat of Forest Fires | | |
| | South America Subregional Technical Workshop (Curitiba, Brazil, 21-23 June 2005) | Mesoamerica Subregional Technical Workshop (Panama, 24-26 May 2005) | Caribbean Subregional Technical Workshop (Dom. Rep., 31 May-2 June 2005) |
| | South American Strategy on Fire Management 2006-2010 | Central American Strategy on Fire Management 2005-2015 | Fire Management Cooperation Strategy for the Caribbean 2006-2011 |
| | Fire Management Working Group of South America, COFLAC | Fire Management Working Group of Central America, CCAD | Fire Management Working Group of the Caribbean, COFLAC |

| | |
|---------------------------------------|---|
| November 2005 | Regional Meeting of Latin America and the Caribbean (Santiago de Chile, 3-4 November 2005) Regional Strategy on Cooperation in Wildland Fire Management in Latin America and the Caribbean (2006-2016) |
| 26-30 June 2006 Dominican Republic | 24th Session of the Latin American and Caribbean Forestry Commission (COFLAC) |

Regional Caribbean Wildland Fire Network

Following the initial discussions at the foundation meeting of the Regional South America Wildland Fire Network and the Pan-American Wildland Fire Conference in 2004, a FAO TCP/RLA/3010 Caribbean Subregional Technical Workshop (*Taller Técnico Subregional del Caribe*) was held in Santo Domingo, Dominican Republic, 31 May-2 June 2005. Besides a draft proposal for a Fire Management Cooperation Strategy for the Caribbean 2006-2011 (*Estrategia de Cooperación del Caribe para el Manejo del Fuego*) the national fire focal points agreed to establish the network and request Cuba to take the lead and coordination function. In the frame of this Strategy it was decided to establish the Fire Management Working Group of the Caribbean under the COFLAC.

Together with the Central America and the South America Strategies a Regional Strategy on International Cooperation in Wildland Fire Management in Latin America and the Caribbean was finalized in a regional meeting in Santiago de Chile, 3-4 November 2005.

The network organized a regional meeting in the frame of the Fourth International Symposium on Sustainable Management of Forest Resources (SIMFOR 2006) / First International Workshop on Fire Management, 19-22 April 2006, Pinar del Río, Cuba.

Together with the three sub-regional strategies, the regional strategy was discussed and at the 24th Session of the Latin American and Caribbean Forestry Commission (Santo Domingo, Dominican Republic, 26-30 June 2006). The series of international symposia entitled "Simposio Internacional sobre Manejo Sostenible de los Recursos Forestales" at the university of Pinar del Río, Cuba, included regional fire science and management workshops in 2006 and 2008.

A regional website is now available at:

<http://www.fire.uni-freiburg.de/GlobalNetworks/Caribbean/Caribbean.html>

Regional North America Wildland Fire Network

The Fire Management Working Group (FMWG) of the North American Forestry Commission (NAFC) – established in 1961 – represents a regional network which is liaising North America's contribution to the Global Wildland Fire Network.

An initial proposal to formally join the Global Wildland Fire Network has been discussed in March 2003 in Melbourne at the occasion of the meeting of the International Liaison Committee (ILC) of the 3rd International Wildland Fire Conference and International Wildland Fire Summit. The proposal has been endorsed by the Fire Management Working Group (FMWG) in 2004. The representatives of the U.S.A., Canada and México endorsed the participation in the Global Wildland Fire Network at the Pan-American Wildland Fire Conference (23 October 2004). In 2005-2006 the U.S. Forest Service continued to support the international dialogue by financing the ILC and contributing to the development of the Fire Management Voluntary Guidelines (see section 2.4). The 2008 meeting of the Global Wildland Fire Network and ILC will be cosponsored by the U.S. Forest Service.

For details on the NAFC Fire Management Working Group see:

<http://www.fs.fed.us/global/nafc/fire/aboutus.htm>

<http://www.fire.uni-freiburg.de/GlobalNetworks/NorthAmerica/NorthAmerica.html>

Results and declaration of the Pan-American Wildland Fire Conference:

<http://www.fire.uni-freiburg.de/GlobalNetworks/Panamerica/Panamerican-Conference.htm>

Regional South Asia Wildland Fire Network

Following discussions with representatives from Nepal and India between 2003 and 2006 and earlier offers by the Department of Forests, Nepal, the UNISDR Wildland Fire Advisory Group encouraged Nepal to take the initiative to establish the Regional South Asia Wildland Fire Network. The foundation meeting was held in the premises of the International Centre for Integrated Mountain Development (ICIMOD) in Kathmandu, Nepal, 2-3 March 2007. The meeting was funded by the Global Fire Monitoring Center (GFMC), cosponsored by the International Centre for Integrated Mountain Development (ICIMOD) and assisted by the Nepal GIS Society (NEGISS), the Agro-Farm Foresters' Association Nepal (AFFAN) and the Center for Biological Conservation Nepal, in line with several declarations made in international conferences and summits, *inter alia* the Declaration of the Tenth SAARC Summit Colombo 1998 on Environment and the decision made in the meetings of UN-ISDR Working Group on Wildland Fire, and the UNISDR Wildland Fire Advisory Group / Global Wildland Fire Network. The foundation meeting "Fire and Livelihoods in the South Asian Region" released the Kathmandu Declaration in which the international donor community was challenged to support the region in building local, national and regional cooperative fire management capacities. A three-level fire management project in Nepal was implemented in 2007-2008 with the support of GFMC to develop principles and framework for fire management at local (community), district and national Level, to be used as a model for the regional network.

Information concerning the progress of forming the South America Wildland Fire Network is available on the web: http://www.fire.uni-freiburg.de/GlobalNetworks/South_Asia/Front_RSAWFN.html

Annex 1

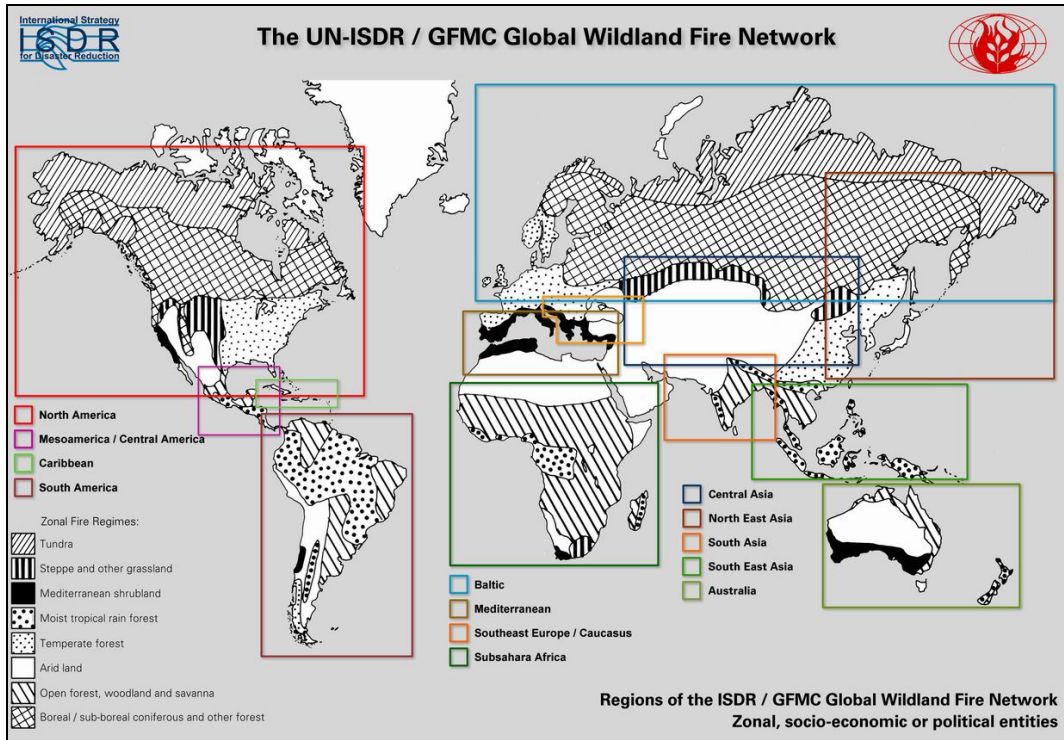


Figure 1. Delineation of regions within the Global Wildland Fire Network

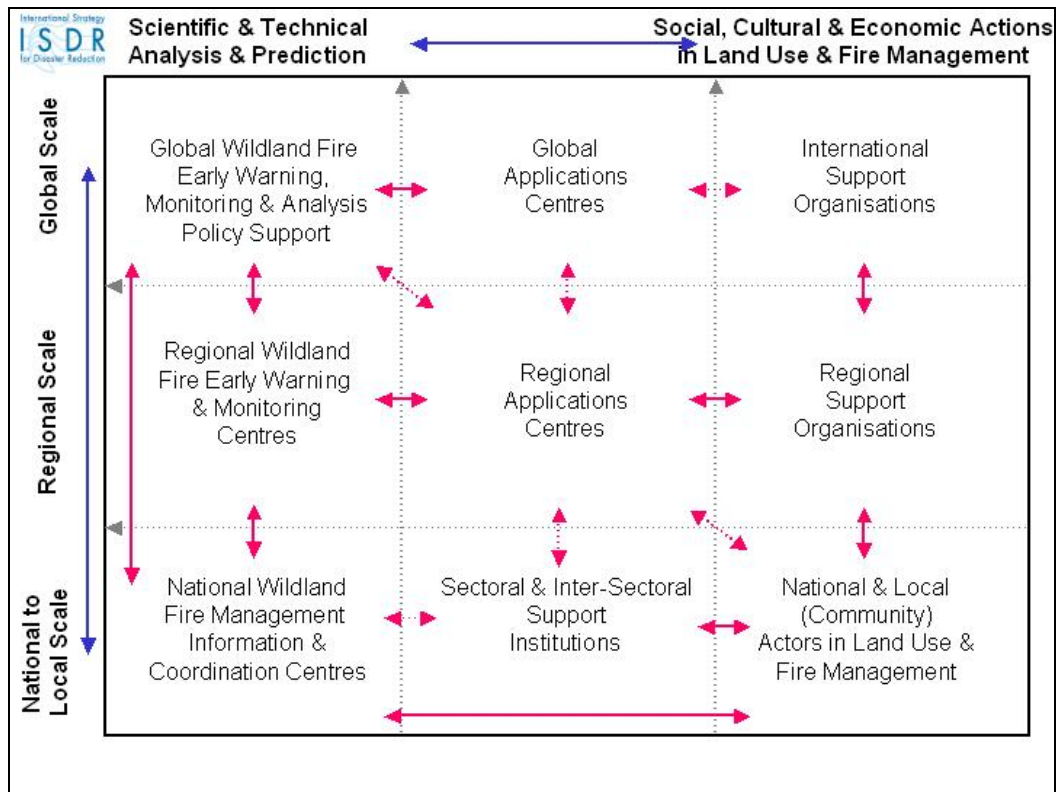


Figure 2. International networking in the wildland fire arena will involve inter-sectoral and inter-agency participation of international to local actors with responsibilities ranging from scientific and technical analysis to land users and fire management actors on the ground, i.e. the local communities.

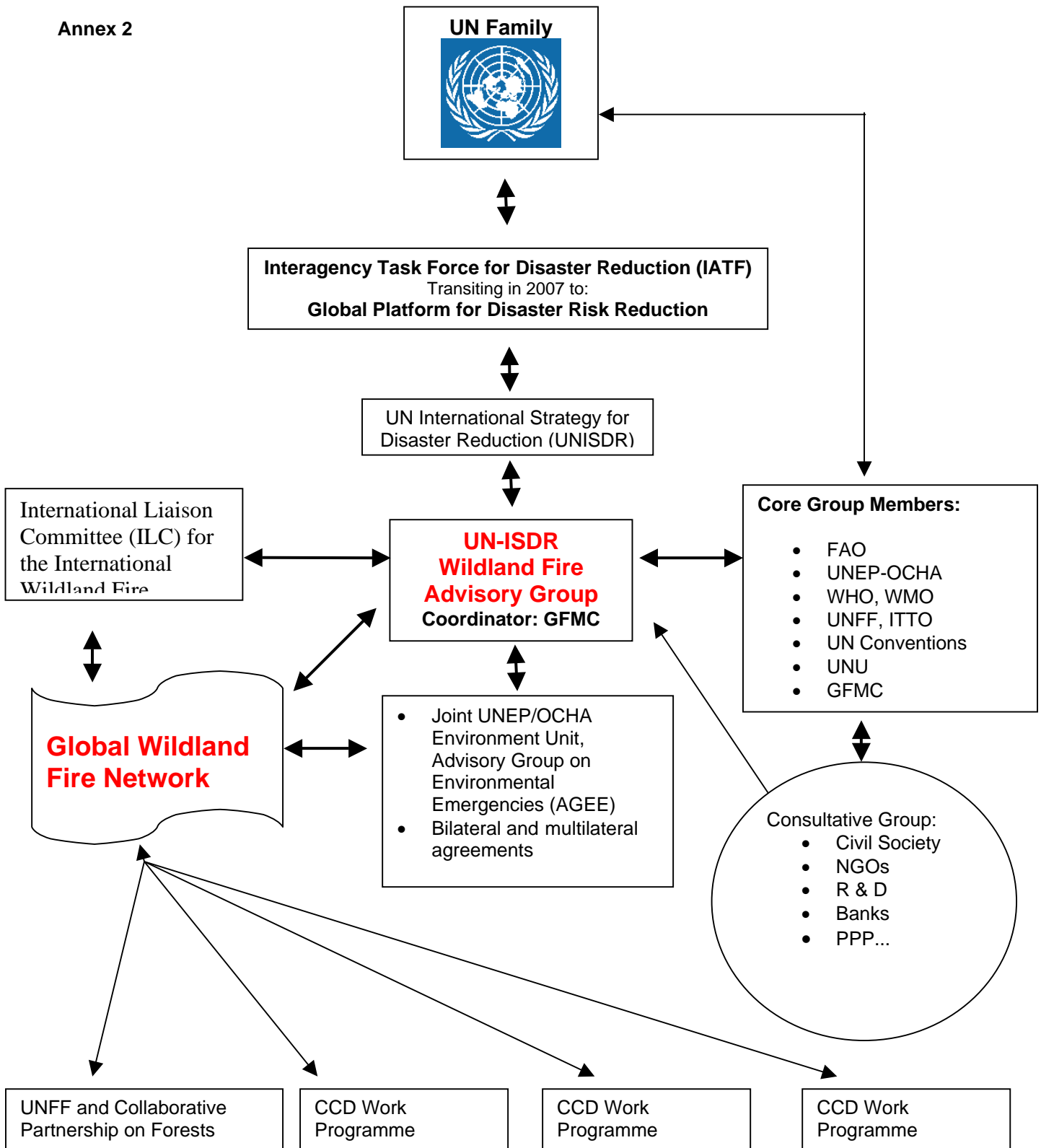
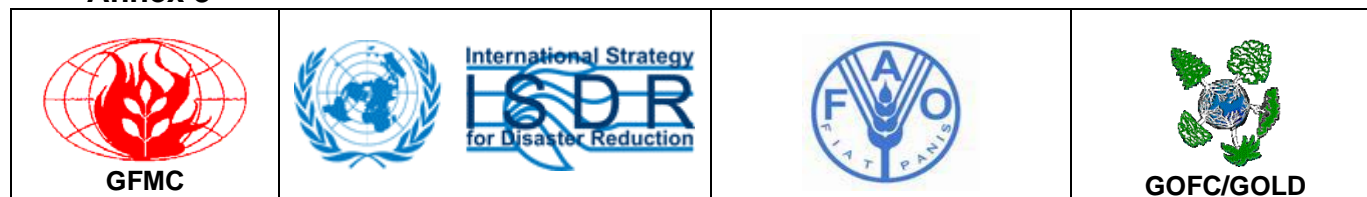


Figure 3. Scheme of cooperative relationships between the Wildland Fire Advisory Group, the Global Wildland Fire Network and the International Liaison Committee of the series of International Wildland Fire

Annex 3



Framework for the Development of the International Wildland Fire Accord

Rationale, Status and Future Activities

Date of original first version: 1 May 2004

Final (13th) Update (this document): 12 April 2005

Authors: Global Fire Monitoring Center (GFMC) in cooperation with FAO, ISDR and GOFC/GOLD

1. Introduction: Purpose of this document

Over the past decade a growing trend of excessive fire application in land-use systems and land-use change, and occurrence of wildfires of extreme severities has been observed in many regions of the world. Some of the effects of wildland fires are of transboundary nature, e.g. the consequences of smoke pollution on human health and safety, loss biodiversity, or consequences of destabilization at landscape level leading to desertification or flooding at transnational scale. The depletion of terrestrial carbon by fires burning under extreme conditions in some vegetation types, including organic terrain in peatland biomes, is one of the driving agents of disturbance of global biogeochemical cycles, notably the global carbon cycle. This trend is calling the international community to commonly address this problem. The development of informal partnerships, joint projects and formal agreements between government and non-government institutions are essential to enable nations to develop sustainable fire management capabilities. United Nations agencies, programmes and conventions, as well as governments and civil society are calling for developing synergies aimed at enhancing efficiency and international cooperation in wildland fire management. This paper proposes the development of an International Wildland Fire Accord to reinforce and strengthen international cooperation in wildland fire management.

This Paper provides

- a brief global situation assessment (including an annex with references)
- a list of major international actors involved in, or having expressed the intent of support, building an international alliance (UN, non-UN international organizations, NGOs, science community, civil society, and governments) to address global wildland fire problems
- a list of major international events up to 2004 manifesting the interests of the international community
- framework and activities to support the development of the International Wildland Fire Accord (2004-2005)

2. Rationale: Global Wildland Fire Status and Trends

Between the mid 1990s and 2004 significant changes have been noted in the occurrence and impacts of wildland fire in some regions of the world:

- Extended droughts triggered by the El Niño – Southern Oscillation (ENSO) phenomenon first experienced in Indonesia in 1983 and again in 1997-98 favoured excessive application of fire in land-use change and occurrence of large wildfires in the tropics, resulting in above-average emission pulses of greenhouse gases and near-ground smoke pollution affecting human health and security.
- Uncontrollable wildfires in the USA between 2000 and 2003 are considered to be a consequence of earlier fire exclusion policies and regional climate change.

- The CIS countries and other countries in transition suffered institutional shortcomings which resulted in widespread wildfires, particularly in the Russian Federation, the Balkans and Central Asia.
- Radioactive emissions from fires burning in forests contaminated by the Chernobyl disaster and other nuclear accidents in the Ukraine, the Russian Federation and Belarus continue to constitute a high threat to human health and security.
- Abandonment of the rural space in the Southern European countries involves less intensive utilization of vegetation biomass, thus resulting in increasing severities of fires with subsequent land degradation and secondary disasters.
- Increasing vulnerability of residential areas at the wildland-urban interface has been noted in North America and Australia where wildfires in the past decade have caused extremely high economic losses.
- The international community has responded to the increasing destructivity of wildland fires around the globe by drafting protocols, agreement guidelines and common terminology for enhancing international cooperation in wildland fire management.
- The Global Fire Monitoring Center (GFMC) and the FAO are instrumental to facilitate cooperative efforts and support UN policies through the UNISDR Global Wildland Fire Network and the UNISDR Wildland Fire Advisory Group.

Summary of global wildland fire trends:

- Trends are determined by local to national socio-economic and political developments; needs have emerged to integrate fire management with the aim of distributing management responsibilities from governments to local populations
- Globalisation of markets determine fire use and fuel loads
- Increasing fire severity observed in many regions as a consequence of coupled direct and indirect impacts of human interference and environmental change
- Other regions experiencing the consequences of fire suppression or reduced fire use, with consequences on biodiversity, carrying capacity, landscape patterns, etc.
- Alarming trend of fire-induced carbon transfer from the terrestrial sphere to the atmosphere, especially from drained or climatically altered wetlands

3. Formation of the Global Wildland Fire Alliance towards the development of an International Wildland Fire Accord

In the following the most important international organizations, institutions and other entities are listed that are currently contributing (or recently have contributed) to promoting the agenda of cooperation in the wildland fire arena at international level.

3.1 Facilitation

- Global Fire Monitoring Center (GFMC): Founded in 1998; support of UN institutions through its host institution (Fire Ecology Research Group) since the late 1980s, coordinating the facilitation through membership and mandate of:
 - UN International Strategy for Disaster Reduction (UN-ISDR): Working Group on Wildland Fire (2001-2003) and UNISDR Wildland Fire Advisory Group (since 2004), serving as inter-agency advisory body to the UN (chaired by the GFMC)
 - Global Wildland Fire Network: Programme facilitated by the GFMC, as an inter-agency programme of the ISDR, funded by the German government and FAO

3.2 United Nations agencies, programmes and conventions mandated to address wildland fire

- FAO: Promotion of international cooperation in wildland fire management; technical cooperation programmes (TCP) in the field, and information dissemination through seven Regional Forest Commissions; Global Forest Fire Assessments (FRA 2000 and 2005) jointly

with GFMC; Fire Management Guidelines for Temperate and Boreal Forests jointly with GFMC; Wildland Fire Management Terminology update jointly with GFMC, promotion of Community-Based Fire Management (CBFiM); information dissemination and international documentation with global reactivation since 1998.

- Regional teams of wildland fire experts:
 - ECE / FAO / ILO Team of Specialists on Forest Fire
 - North American Forestry Commission, Fire Management Working Group
 - FAO *Silva Mediterranea*, Forest Fire Working Group
- WHO: Development of Health Guidelines for Vegetation Fire Events (currently no active position)
- WMO: Early warning of El Niño, fire weather, smoke transport
- UNESCO: Disaster reduction programmes (currently no specific programme)
- UNEP/OCHA: Joint UNEP/OCHA Environment Unit; Advisory Group on Environmental Emergencies (AGEE), WSSD Type II Partnership on Environmental Emergencies (GFMC member, FAO maintaining a Fire Alert Web Page to relay national fire emergency requests)
- ITTO: Guidelines for Fire Management in Tropical Forests, support of national fire management programmes, including CBFiM
- UNU: Establishment of the Institute for Environment and Human Security (2004), with wildland fire module (first UN inter-agency activity in 2004: Joint GFMC / ISDR / FAO / OCHA / UNU / NEPAD Advanced Wildland Fire Management Training Workshop for SADC Countries)
- UN Conventions: Agreement with the secretariats of the three Rio Conventions on cooperation with GFMC/ISDR, at the Workshop "Forests and Forest Ecosystems: Promoting Synergy in the Implementation of the Three Rio Conventions" (Viterbo, April 2004)
- Convention on Biodiversity (CBD): Member of the ISDR-IATF Wildland Fire Advisory Group (since 2003)
- Convention on Combat of Desertification (CCD): collaborative arrangement with GFMC started in 2004
- Framework Convention of Climate Change (FCCC): collaborative arrangement with GFMC started in 2004
- UN Forum on Forests (UNFF): Member of the ISDR-IATF Wildland Fire Advisory Group (since 2003)

3.3 Non-Governmental Organizations

- IUCN-TNC-WWF: Global Fire Partnership founded in September 2003; strategic meeting with international participation (May 2004) International Technical Committee for the Prevention and Extinction of Fire (Comité Technique International de Prévention et d'Extinction du Feu - CTIF): Reactivation of the Commission on Forest Fires (September 2003), First Conference: *Experiences from 2002-2003 Wildland Fire Seasons: Are we prepared for the challenges ahead?* (Austria, October 2003); Development of a Forest Fire Control Handbook for European Fire Services (by GFMC)
- Global Observation of Forest and Land Cover Dynamics (GOFC/GOLD) Fire Monitoring and Mapping Implementation Team: Global Forest Fire Assessment by spaceborne assets

4. Precursor activities to support the International Wildland Fire Accord (before 2004)

- International Decade of Natural Disaster Reduction (IDNDR): The decade (1990s) promoted synergies between international groups and entrusted the GFMC to coordinate the programme "Early Warning of Wildland Fire and Related Hazards"
- ECE/FAO Conference Forest, Fire and Global Change (Russian Federation, 1996): Elaboration of a proposal for international cooperation in wildland fire management
- FAO Consultations on Public Policies and Cooperation (1998, 2001)
- International Wildland Fire Conferences in Vancouver (1997) and Sydney (2003)
- International Wildland Fire Summit (2003): Agreement on principles, international strategies and participatory fire management

5. Framework and activities to support the International Wildland Fire Accord (2004-2005)

In 2004 and early 2005 (up to the FAO Ministerial Meeting on Forests, 14 March 2005) a number of regional conferences and consultations have addressed international cooperation in wildland fire management:

- Northeast Asia (Korea, March 2004): Foundation of the Regional Northeast Asia Wildland Fire Network, hosted by the Korean Forest Service
- ECE/FAO conference on Cooperation in Wildland Fire Management in the Eastern Mediterranean, Near East, Balkans, Central Asia (Turkey, 30 March – 2 April 2004): Consolidation of the Regional Wildland Fire Networks for the Balkans, Eastern Mediterranean / Near East, Western and Central Asia, hosted by the Forest Service of Turkey (see “Antalya Declaration on Cooperation in Wildland Fire Management in the Balkans, Eastern Mediterranean, Near East and Central Asia”); Turkey to host a Regional Wildland Fire Advisory Group, and Bulgaria to host the Balkans Network.
- Baltic Region (Finland, May 2004): Regional Baltic Wildland Fire Meeting (follow-up to ECE/FAO BALTEX FIRE 2000), hosted by the Ministry for Interior, Finland; consolidation of the Regional Baltic Wildland Fire Network and the regional work of the ECE/FAO Team of Specialists on Forest Fire
- South America (Brazil, June 2004): Foundation of the Regional South America Wildland Fire Network, meeting hosted by the University of Paraná, Curitiba, co-sponsored by FAO, GFMC, USFS, UNEP, TNC and others
- Central America (July-September 2004): Consolidation of cooperation arrangements in Central America (CCAD/CCAB, Mesoamerica Agreement, Implementation of the Honduras Strategy)
- Joint meeting of the Regional Wildland Fire Networks of South America, Central America, Caribbean (foundation meeting), and North America (NAFC Fire Management Working Group) in preparation of the Pan-American Wildland Fire Conference (Costa Rica, 21-22 October 2004) Signing of a Memorandum of Understanding between FAO and GFMC on joint activities related to increase international cooperation in wildland fire management, including a thematic report for the Global Forest Resources Assessment 2005.
- Pan-American Wildland Fire Conference (Costa Rica, 23 October 2004): Meeting of the FAO Regional Forestry Commissions of North America, Latin America and the Caribbean. Objective (among other): endorsement of the regional networking concepts prepared in Brazil and Costa Rica; recommendations for the FAO Ministerial Meeting on Forests (2005)
- Meeting of the ASEAN Haze Technical Task Force (HTTF) and ASEAN Ministerial Meeting on Haze, back to back with the First Meeting of COP to the Haze Agreement (Hanoi, Viet Nam, 8-11 November 2004)
- Presentation of the Regional Central Asia Wildland Fire Network and the Global Wildland Fire Network at the Regional Central Asian Forest Congress “Forest Policy: Problems and Solutions” (Bishkek, Kyrgyz Republic, 25-27 November 2004)
- Meeting of the UN-ISDR Wildland Fire Advisory Group and the Global Wildland Fire Network (GFMC / Germany, 3-4 December 2004): Preparation of recommendations for the FAO Ministerial Meeting on Forests (2005) reflecting the results of the regional and global consultations carried out in 2004.
- UN World Conference on Disaster Reduction (Japan, January 2005): The conference reviewed the Yokohama Strategy and Plan of Action (of 1994), including its wildland fire component, define WSSD-related specific activities and provided an opportunity for the Global Wildland Fire Network and UN-ISDR Wildland Fire Advisory Group to report on the Framework for the Development of the International Wildland Fire Accord

At the FAO Ministerial Meeting on Forests at which wildland fire will was a major agenda item (Rome, 14 March 2005) and the 17th Session of the FAO Committee on Forestry (COFO) (Rome, 15-19 March 2005) ministers and representatives of agencies responsible for forestry discussed a proposal directed to the United Nations concerning a coordinated effort in international cooperation in wildland fire management.

Results

At the FAO Ministerial Meeting on Forests (Rome, 14 March 2005) ministers and representatives of agencies responsible for forestry

- **“called on FAO, in collaboration with countries and other international partners, including the International Strategy for Disaster Reduction, to develop a strategy to enhance international cooperation on wildland fires, that advances knowledge, increases access to information and resources and explores new approaches for cooperation at all levels”.**

At the 17th Session of the FAO Committee on Forestry (COFO) (Rome, 15-19 March 2005) an “Action Programme for FAO in Forestry” was agreed. It included recommendation No. 53

- **“that FAO continue its support for regional and national networks to combat fire as well as insects and disease, in collaboration with relevant organizations such as the United Nations International Strategy for Disaster Reduction and the Global Wildland Fire Network, and further requested that FAO work with partners to develop voluntary guidelines on the prevention, suppression and recovery from forest fire”.**

All documents of the FAO Ministerial meeting and the 17th Session of COFO can be downloaded at these FAO web pages:

- FAO Ministerial Meeting: www.fao.org/forestry/site/26480/en
- 17th Session of COFO: www.fao.org/forestry/site/2960/en

In addition all documents referring to the development of an international wildland fire accord / global strategy are compiled on the website of the Global Wildland Fire Network:

- <http://www.fire.uni-freiburg.de/GlobalNetworks/RationaleandIntroduction.html>

Editorial Note:

FAO and GFMC agreed to terminate the updating process of this framework document with the decisions of the ministerial meeting and COFO-17. The results were presented to UNFF-5 (New York, 16-27 May 2005) during which the Wildland Fire Advisory Group, jointly with FAO, The Nature Conservancy (TNC) and the U.S. Forest Service, organized a side event “Development of a Strategy or Agreement on International Cooperation in Wildland Fire Management” (18 May 2005).

The follow-up process will be reflected by reports of the FAO and the UNISDR Wildland Fire Advisory Group. These reports will be published or linked on the above-mentioned website of the **Global Wildland Fire Network**.

ANNEX - References

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Convention on Biological Diversity

<http://www.fire.uni-freiburg.de/programmes/un/cbd.htm>

Joint UNEP/OCHA Environment Unit / WSSD Partnership for Environmental Emergencies

<http://www.reliefweb.int/ochaunep/>

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4th International Wildland Fire Conference Sevilla, 17 May 2007

Conference Statement As agreed by the Representatives of 13 Regional Wildland Fire Networks and Participants of the Joint Regional Sessions

The 4th International Wildland Fire Conference was held in Sevilla, Spain, 14-17 May 2007. The conference was held under the auspices of the United Nations International Strategy for Disaster Reduction (UNISDR), the Food and Agriculture Organization of the United Nations (FAO) and the European Commission and hosted by the Government of Spain and the Regional Government of Andalusia. The conference brought together 1531 participants from 88 countries from throughout the world, representing government organizations and civil society from all regions of the world, the United Nations and other international organizations.

The participants of the 4th International Wildland Fire Conference presented the state-of-the art in fire science, fire management and fire management training in all continents. A commercial exhibition provided insight in innovative fire management technologies, including fire detection, monitoring, suppression, and firefighters and public health and safety. A number of organizations and international associations involved in the wildland fire arena held side meetings and recommended enhancing the international dialogue.

The FAO and partners presented progress in the development of a Strategy to Enhance International Cooperation in Fire Management, requested by the Ministerial Meeting in 2005. The Strategy is being progressed through a multi-stakeholder process and includes a Global Assessment of Fire Management, a Review of International Cooperation and Fire Management Voluntary Guidelines. During the Conference, and as part of the Strategy, the Fire Management Actions Alliance was launched to promote, implement and update the Voluntary Guidelines. At the time of the launching event 35 partners – national agencies, universities and international organizations – had signed up to the Alliance.

Fire management specialists, many of them organized and cooperating in Regional Wildland Fire Networks, reported the state of the fire situation in their home countries and in the 13 regions. With reference to the global developments impacting on the fire situation in the regions of the world, the national and regional analyses of the fire situation and a self-assessment of fire management capabilities, the representatives of the Regional Wildland Fire Networks and the participants of the joint regional sessions recognized the global issues impacting on fire occurrence and the consequences of fire on the environment and humans in the regions of the world, notably the

- Demographic changes resulting in alterations of sustainable fire regimes, e.g. the consequences of rural exodus or – vice-versa – exurban migrations, coupled with a loss of traditional, sustainable land-use systems;
- Widespread poverty associated with unemployment, exurban migrations and land tenure conflicts and resulting in increasing human-caused fires;
- Land-use change involving increasing fire use for conversion of vegetation, notably in the tropics, and expansion of land use to fire-sensitive lands, e.g., peatlands, drained or otherwise desiccating wetlands, and other fire-sensitive vegetation;
- Increasing costs of fire suppression;

- Expansion of the wildland-urban interface in some countries and increasing vulnerabilities and greater exposure of rural settlements to increasing occurrence of severely damaging fires;
- Consequences of, and the contribution to, climate change, resulting in increasing occurrence of extreme droughts in most regions, desiccation of wetlands, thawing of permafrost sites, and a general trend of increasing area burned, fire intensity, fire severity, and longer fire seasons;
- Human health and security threatened by increasing wildfire activity and land-use fires causing release of a greater amount of pollutants and resulting in greater public exposure to hazardous emissions, including transboundary transport of fire smoke pollution at regional to global levels;
- Human security and peace threatened by fires burning on radioactively contaminated lands, by fires on areas with unresolved conflicts, and on territories with post-war hazards such as landmines and unexploded ordnance.

Being cognizant of the global issues, as listed above, the representatives of the Regional Wildland Fire Networks and the participants of the joint regional sessions agreed to the need to develop synergies through coordinated and collective action to address the most pressing problems related to fire management globally. Further the conference participants recommend that:

- The international wildland fire community pursue the development of a global-scale international resource sharing strategy to assist countries with fire management planning activities (including prescribed fire for ecological purposes and fuels management), and active support during periods of wildland fire;
- The FAO promote the global adoption of Incident Command System (ICS) including the publishing of an annual list of countries which have implemented ICS;
- Regional strategies for fire management be developed and designed to the specific needs of regions;
- An international framework for fire management standards be developed and regional wildland fire training be supported, especially to meet the needs for capacity building in developing countries;
- Scientific research programmes addressing the consequences of changes of climate, land use and land cover, and socio-economic changes on fire regimes, environment and society must be supported at all levels;
- The Strategy to Enhance International Cooperation in Wildland Fire Management and the implementation of the Fire Management Voluntary Guidelines be encouraged and endorsed;
- Agencies and groups be encouraged to participate in the Fire Management Actions Alliance in support of their adoption of the Voluntary Guidelines;
- The UNISDR Global Wildland Fire Network, the Regional Wildland Fire Networks and the Secretariat of the global network, the Global Fire Monitoring Center (GFMC), be supported by national agencies and international donors aimed at fostering international cooperation in fire management, including collecting and disseminating fire information, arranging and enhancing international policy dialogue, and supporting projects;
- A series of Regional Consultations tentatively addressing “Global Change and Wildland Fire: Regional Solutions for Fire Management” – be held globally, within the next 1-2 years, to progress the global issues that are impacting people, resources and livelihoods;
- The 2nd International Wildland Fire Summit – tentatively addressing “Global Change and Wildland Fire: Fire Management Solutions for Mitigation and Adaptation” – be held within the next 2 to 4 years under the auspices of the United Nations and partners.

The conference participants thanked the organizers and hosts of the conference for bringing together the international community responsible for wildland fire management. The participants welcomed the offer of South Africa to host the 5th International Wildland Fire Conference, tentatively in 2011.