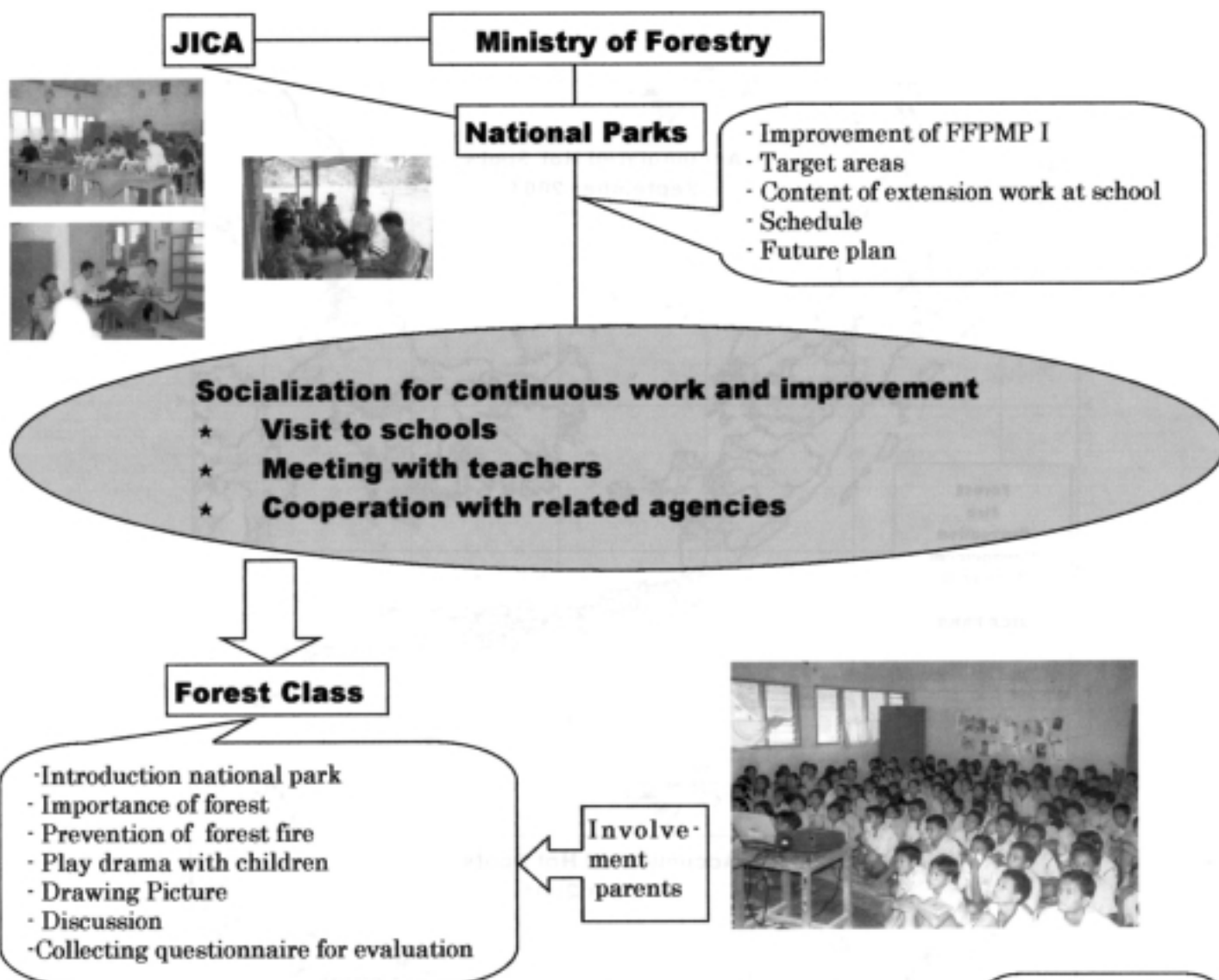
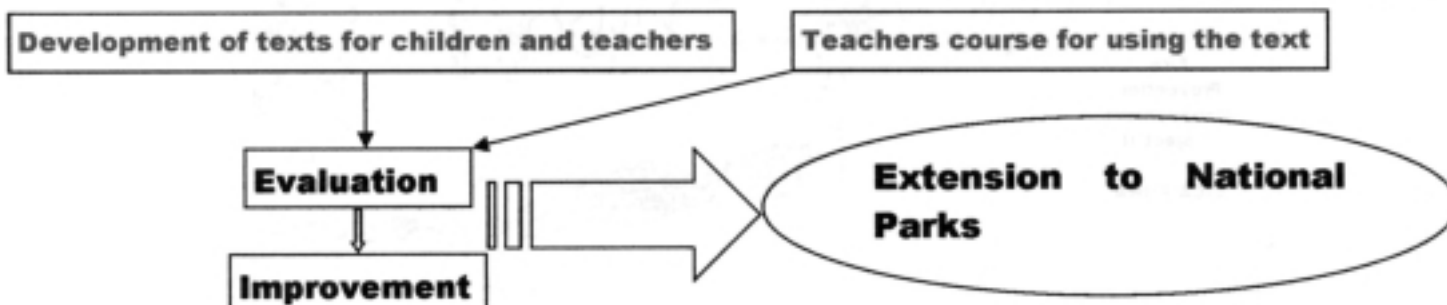


Socialization, involvement & continuation — First step —

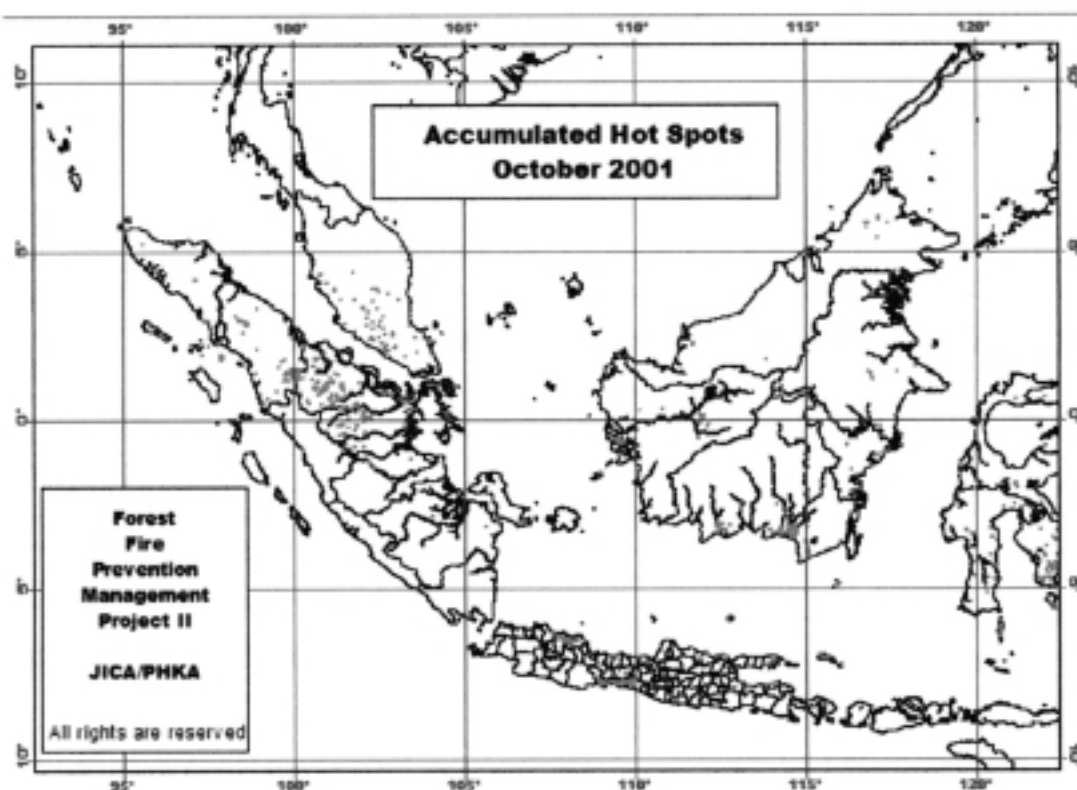
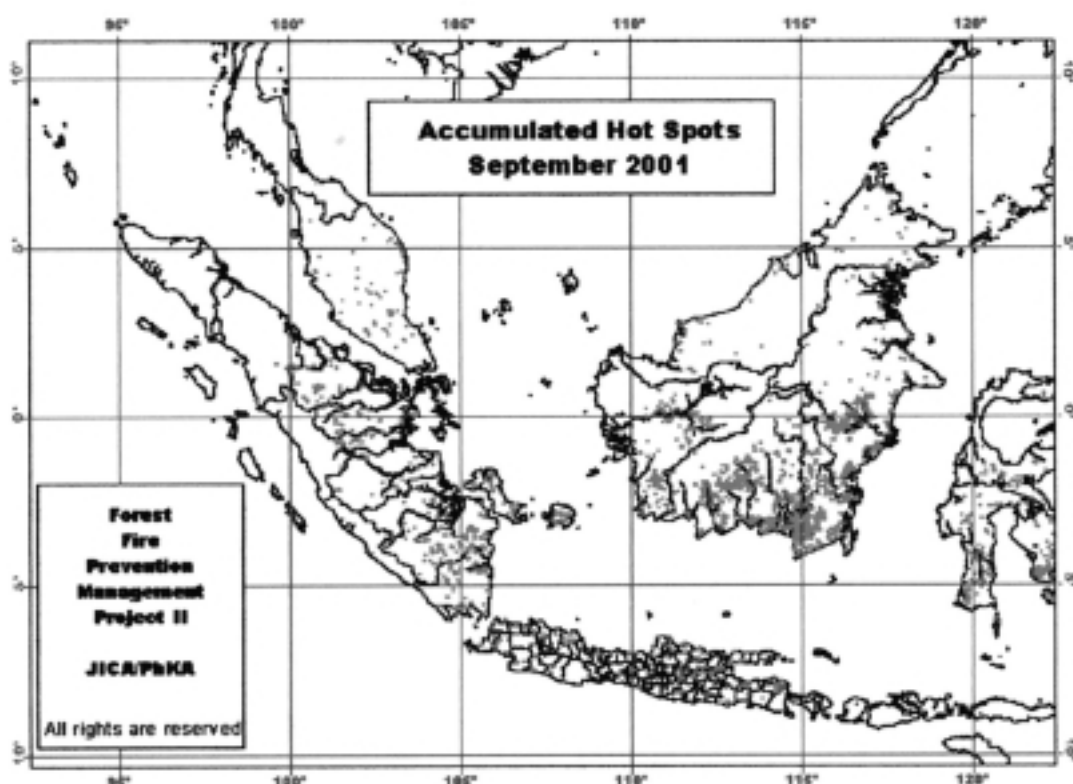


Solution for limitation & improvement — Second step —

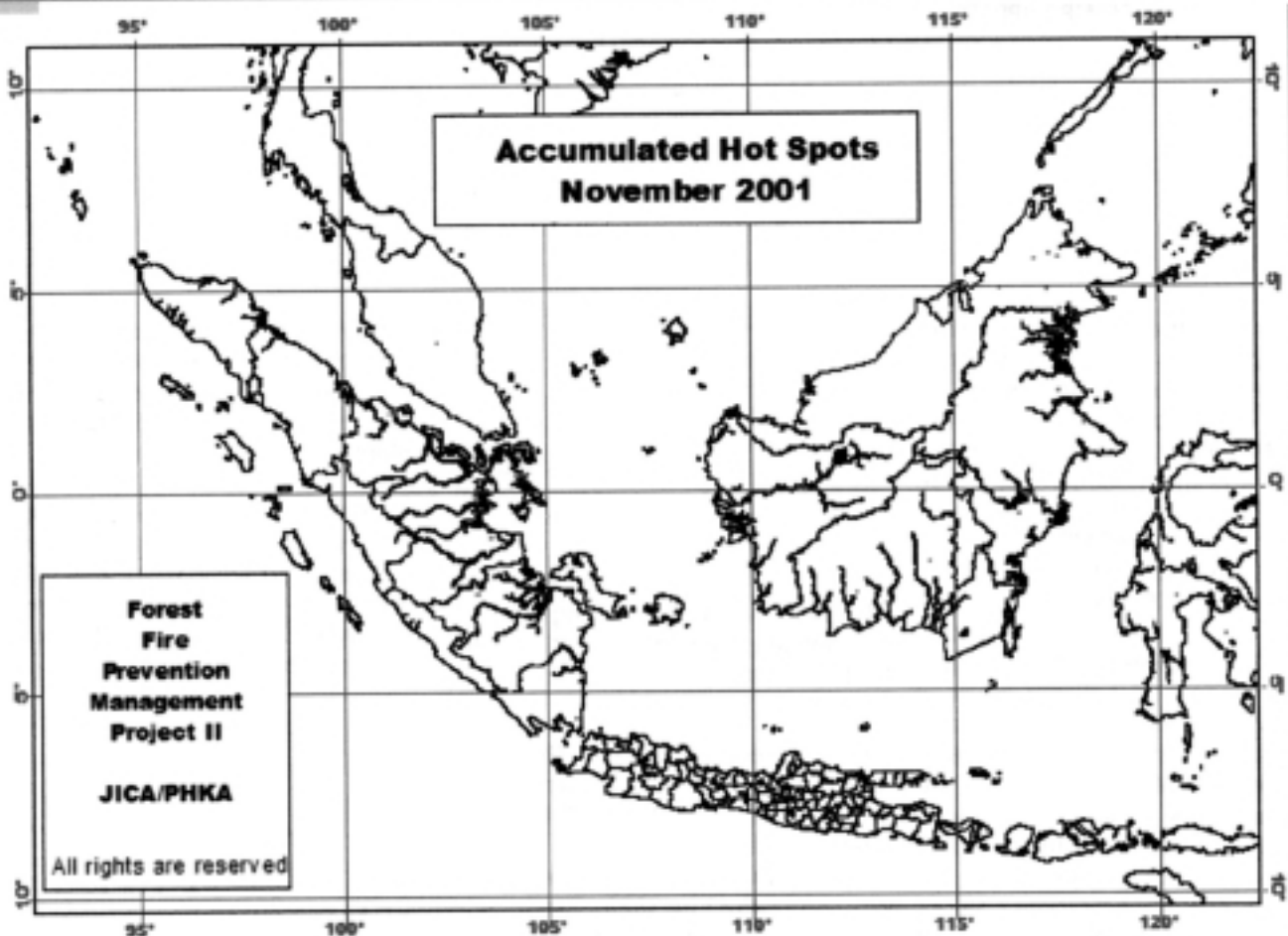
- Continuation
- Extension
- Times of classes
- Number of staffs
- Involvement



Hot spots from September to November



FFPMP 2 UPDATE



In September, Sumatra Island was covered by clouds. In contrast Kalimantan Island was not covered by clouds and then many hot spots were detected. Greatest number of hot spots per capture in Kalimantan was 544 in total among which 83 hot spots detected in West Kalimantan, 243 detected in Central Kalimantan, and 136 hot spots detected in South Kalimantan on 2 September.

In October, Sumatra and Kalimantan was covered by thick clouds. The greatest number of hot spot per capture in Kalimantan was 142 on 16 October. 113 hot spot were detected only in Central Kalimantan by the capturing at that time.

In Sumatra the greatest number of hot spot was 249 on October 1. 164 hot spot were detected in Riau, 43 hot spot were detected in North Sumatra.

In November, the situation of hot spot distribution was not so serious. The greatest number of hot spot detected per capture was no more 7. It seems that the rainy season.

Suddenly motor of sensor of NOAA 14 has broken down on end of October. For this reason, we cannot extract a hot spot from the data of NOAA14. At the station of FFPMP 2 in Bogor, the hot spot is extracted only using data of NOAA12 now.

(H. Iwai, Johnnie H. P.)

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FFPMP 2 on the Web

<http://ffmp2.hoops.ne.jp/>

Outlines of FFPMP 2, a download facility for FFPMP 2 UPDATE (PDF) and daily and monthly hot spot distribution images as well as GMS images for smoke/haze monitoring are available and updated regularly.

Hot Spot Detection: Its characteristics and limitations

A hot spot is a pixel which is hotter than a particular threshold temperature, and represents land/forest fire based on the data captured by NOAA meteorological satellites. However some factors affect the results and cause errors, including misinterpretation of sun glint on the sea surface, which is common in evening capturing. To avoid such errors, FFPMP employs contextual algorithms with multi-band data for daytime capturing, while simple algorithms are applied to nighttime capturing, which has no sun glint. In the case of FFPMP, 315 K for daytime and 310 K for night time for threshold temperature of Channel 3 of NOAA sensor (AVHRR) are used.

Recognition of all aspects of characteristics and limitations of hot spot information is essential for appropriate interpretation and effective utilization. The followings are some of such important aspects of hot spot detection:

- Coarseness in resolution. 1.1 km just under the satellite. Thus the finest pixel has 1.21 km².
- Fires under cloud cover cannot be detected.
- Frequency limitation. One to three times a day for each island is a typical frequency of detection according to their orbit plan. FFPMP does not operate automatic capturing at night to prevent lightning damages. Therefore only the afternoon and evening data are available.

ABOUT FFPMP

Forest Fire Prevention Management Project Phase 2 (FFPMP 2) is a technical cooperation program between Ministry of Forestry (MoF) and Japan International Cooperation Agency (JICA) from April 2001 through April 2006. FFPMP 2 supports participatory forest fire suppression, extension and public relation, initial forest fire suppression and early warning and detection. The satellite operation room is located in Bogor, and field sites are in National Parks, Bukit Tiga Puluh, Berbak, Way Kambas and Gunung Palung.

Plan of construction of the Forest Fire Fighting Training Center by Hajime Naganawa

Although the forest fire in Indonesia has various problems, the destruction of forest resources is one of the biggest problems. Moreover, Haze generated from here is international issue. We are going to protect the national parks from forest fire in FFPMP 2, which is based on the result of the phase 1.

In phase 2, the Forest Fire Fighting Training Center is needs to be built, especially for training staff in the field such as rangers of national parks. It is really necessary to reform the training system to meet the field situations. For example, the system in the training courses should be followed by proper organization structure and personnel promotion system in the fire fighting teams.

If it is difficult to develop a series of training systems to suit for deferent target groups, the first thing we need to do is that we need to start well established organizations like national parks.



Mr. Naganawa conducting forest fire fighting training for staff of National Forest.

The proposed location for "The Forest Fire Fighting Training Center" is in the site of Bukit Tigapuluh National Park. Bukit Tigapuluh National Park was established in 1995. Bukit Tigapuluh National Park has various feathurs such as from mountainous rain forest until swamp forest. It is believed there are plenty of flora and fauna diversity. Among all of the thou-

sands of flora species, some of them are identified as rare flower. Furthermore, there are still precious traditional culture (Talang Mamaku, Anak Dallam families are living in the park).

The Forest Fire Fighting Training Center will be wooden building which matches Indonesia style and have function of accommodation for various purposes. After establish, we will report the activities there.



The Forest Fire Fighting Training Center

FFPMP 2 UPDATE

Forest Fire Prevention Management Project Phase 2 (FFPMP 2)

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