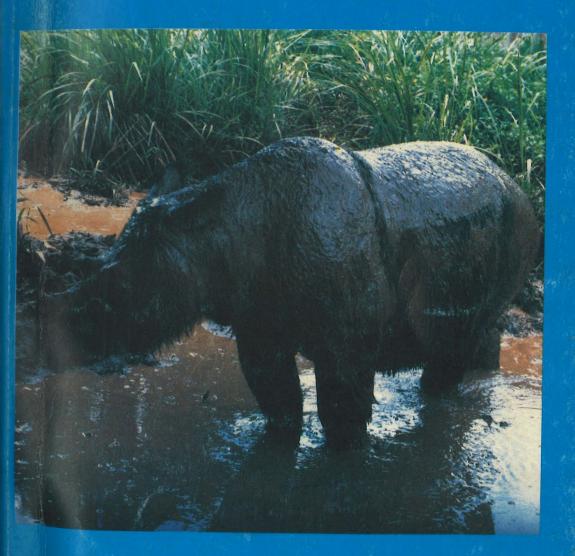


# RIMBA INDONESIA

Vol. XXI No. 1, April 1987



SPECIAL ISSUE
PROCEEDINGS OF THE FOURTH IUCN/SSC
ASIAN RHINO SPECIALIST GROUP MEETING
Jakarta, Indonesia, 13 - 14 October 1986.

### PERSATUAN PEMINAT DAN AHLI KEHUTANAN

(Indonesian Forestry Association)

Pengurus (Officers)

Ketua I (Chairman):
RUBINI ATMAWIDJAJA

Ketua II (Vice Chairman):
SETYONO SASTROSOEMARTO

Penulis I (Secretary): SOEDJADI HARTONO Penulis II (Vice Secretary): ADJAT SUDRADJAT

Bendahara I (Treasurer):
MARIYANTI H.

Bendahara II (Vice Treasurer):
SUMARMAN

Anggauta-anggauta (Members):
SYAFII MANAN, HAROM W. SUKMAWAN,
SADAN WIDARMANA, YON SUDIONO,
H.M. DURYAT PUSPOWIDAGDO, R. SURYONO,
ACHMAD SOEMITRO, SUPRAYITNO, SOETARA,
K.S. SUKADHANA.

Sekretariat (Secretariat): SURANDI K. RIYATMO,

# Majalah RIMBA INDONESIA

(Indonesian Journal of Forestry)

Penerbit (Publisher)

Persatuan Peminat dan Ahli Kehutanan, P.P.A.K. (Indonesian Forestry Association)

Dewan Redaksi (Board of Editors)

Syafii Manan (Ketua), Ishemat Surianegara, Rubini Atmawidjaja, Setyono Sastrosoemarto, Abdurahim Martawijaya, Sadan Widarmana, Achmad Sumitro, Surandi K. Riyatmo (Sekretaris).

Alamat Redaksi (Address)

Jln. Ir. H. Juanda No. 100. Tilpon: 0251-21014 Bogor, Indonesia

Surat Izin Terbit No. 01009/SK/DIR-PP/SIT/1970, tgl. 25 Agustus 1970.

# RIMBA INDONESIA (Indonesian Journal of Forestry)

Vol. XXI

April 1987

No. 1

# Contents

	Page
Proceedings of the Fourth IUCN/SSC Asian Rhino Specialist Group Meeting — A note from the Editors	3
Message from Dr. Soedjarwo, Minister of Forestry, Republic of Indonesia	5
Welcome Address — Dr. Rubini Atmawidjaja	10
Opening Address — Mohd. Khan Bin Momin Khan	13
The Javan Rhino (Rhinoceros sondaicus Desm.) census in Ujung Kulon	13
National Park — Haerudin R. Sadjudin	16
Discussion.	26
Rhino Trapping in Malaysia — Mohd. Tajuddin Abdullah	27
The Conservation of the Sumatran Rhinoceros (Dicerorhinus sumatrensis): A situation report and proposal for future directions	21
— Francesco Nardelli	31
Discussion	36
Conservation of the Sumatran Rhinoceros in Sabah, Malaysia  — Mahedi Andau	e liber
Discussion	39
On the efforts to breed the Sumatran Rhino (Dicerorhinus sumatren-	46
sis) in captivity in Indonesia — Syafii Manan, Sutarman & Sudhono.	48
Discussion	Cort C
On the Status of the Sumatran Rhino in captivity in Thailand	55
— Dr. Chira Meckvichai	57
Discussion	57
Preparation to breed the Sumatran Rhinoceros in England — Dr. Linda	elal v
Buntaran	59
Discussion	60
Rhino Breeding in Malaysia — Mohd. Tajuddin Abdullah & Zainal	AND ST
Lahari Zainuddin	62
Discussion	63
RIMBA INDONESIA VOL. XXI NO. 1. 1987	

The Conservation of the Javan Rhinoceros (Rhinoceros sondaicus	
Desm.): A proposal — Francesco Nardelli	64
Discussion	. 67
Country Report: INDONESIA — Dr. Rubini Atmawidjaja	70
Country Report : MALAYSIA	
Distribution and Population of the Sumatran Rhinoceros Dicerorhinus sumatrensis in Peninsular Malaysia — Mr. Mohd. Khan bin Momin	
Khan	75
Discussion	82
Drafting of Recommendations	83
The Chairman's Recommendations	88
Discussion on Captive Breeding	
Recommendations made at the IV Meeting of the IUCN/SSC Asian	
Rhino Specialist Group.	91
Closing Address — Dr. Rubini Atmawidjaja	93
Closing Address — Mr. Mohd. Khan bin Momin Khan	95
List of Participants	96

#### Front Cover:

Jalu, the four year old male Sumatran rhino captured in Torgamba forest, Sumatra, enjoying his new ''quarters'' at the Ragunan Zoo, Jakarta.

#### Back Cover:

Forest conversion in progress, Torgamba, Riau, Sumatra. Photographs by Syafii Manan.

# PROCEEDINGS OF THE FOURTH IUCN/SSC ASIAN RHINO SPECIALIST GROUP MEETING

account of its small population size. It remains the rarest large of

- A note from the Editors.

The Fourth IUCN/SSC Asian Rhino Specialist Group Meeting was held at the Ministry of Forestry Building, Manggala Wanabakti, Jakarta, from October 13 to 14, 1986.

The Meeting was convened by the Chairman of the IUCN/SSC Asian Rhino Specialist Group, Mr. Mohd. Khan bin Momin Khan in order to review the progress made since the last meeting that was held in Singapore in 1984, in the field of conservation and management of rhinos in Asia, and also to reach a consensus on what the priorities should be for the coming years. The emphasis was on the two species of rhinos in Southeast Asia, namely the Sumatran rhino (Dicerorhinus sumatrensis) and the Javan rhino (Rhinoceros sondaicus) whose prospects for long-term viability in the wild, are not as good as those for the Great Indian one-horned rhinoceros (Rhinoceros unicornis).

The status of the Sumatran rhino was given particular attention in the light of the recent developments in Malaysia and Indonesia where much progress had been made in both in situ as well as ex situ conservation of the species. A most encouraging news was the discovery of some Sumatran rhino in Sarawak. Even quite small local populations are valuable and should be protected wherever practicable. On the other hand, in areas where the animals have absolutely no hope for survival, as in the case of Torgamba production forest in Sumatra, some animals were captured in a collaborative programme between the Directorate General of Forest Protection and Nature Conservation in Indonesia and the Howletts and Port Lympne Zoo Park in the United Kingdom in order to propagate the species in captivity in zoos. This points to the fact that the last refuge for the rhinos may require skillful management, both in nature as well as in captivity.

In the wild the rhinos are threatened by poachers throughout their range. The Asian rhino horn is of very high commercial value. A kg of rhino horn can fetch anything between US\$ 4,000 to 9,000 in the black market. At such a price, the continued survival of the animals will always be at risk. The recent announcement that Singapore had acceded to the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) is most welcome and it augurs well for wildlife conservation in general. The use of substitutes in patent medicines should also be encouraged as a

measure to reduce the demand for rhino horn.

The Javan rhino faces the bleakest prospects for long-term survival on account of its small population size. It remains the rarest large mammal in the world. Its rarity alone does not allow any experimentation at the moment. Given the lack of experience in maintaining and breeding this animal in captivity, it was felt that it would be taking a big risk if some animals were to be captured for breeding in zoos.

There is an urgent need for a number of surveys to be carried out to determine the whereabouts of the viable populations and those that are "doomed". In the final analysis, the overwhelming emphasis of any conservation policy must be in the maintenance of forest cover over large areas uninterrupted by human settlements, where remoteness, density of cover and difficulty of terrain provide natural protection. The prospects for the long-term survival of the rhinos in Asia, although grim need not be hopeless. In this issue of RIMBA INDONESIA, we present the Proceedings of the Fourth IUCN/SSC Asian Rhino Specialist Group Meeting.

in the wild the things are threatened by pouchers throughout their range.

a price the continued survival of the amount will always be see that. The

April 1987 Bogor, Indonesia

Bogor, Indonesia

Syafii Manan,

Directorate General of

Forest Protection and

Nature Conservation,

progress had been been been both in situ as will use as also conservation, of

Charles Santiapillai,
World Wildlife Fund
Indonesia Programme.

# DEDICATED TO THE HONOURABLE MINISTER OF FORESTRY DR. SOEDJARWO

DEDICATED

DR. SOLEMAN OF FORESTRY
DR. SOLEMARWO



Dr. Soedjarwo
Minister of Forestry
Republic of Indonesia



## MENTERI KEHUTANAN REPUBLIK INDONESIA

#### MESSAGE

As a developing country, Indonesia's economy depends largely on the exploitation of its vast but finite natural resources. But an unbalanced economic development can deplete such a resource base on which the country's long term development ultimately depends. The pace of development in the recent decades has increased so much that a number of land development programmes have transformed enormous areas of forest into cultivated fields, leading to the disappearance of animals especially the large mammals such as the rhino, from their former habitats. We must therefore recognize the need to reduce the rate of deforestation and manage our natural resources more sustainably.

Three species of rhino occur in Souteast Asia, namely the Indian or Greater One-Horned Rhino, the Javan or Lesser One-Horned Rhino and the Sumatran Two-Horned Rhino. Throughout their range, the rhinos are in conflict with man and are therefore on the brink of extinction. Of the three species of rhino extant in Southeast Asia, the Javan and Sumatran rhinos face the bleakest prospects for long term survival. A combination of poaching and habitat loss has contributed to the rapid decline in number of these once common and widespread species. The high value of their horn makes them extremely vulnerable to poaching.

Indonesia has taken a number of measures to conserve the rhinos. These range from improvement of their habitats to increased anti-poaching efforts and tighter legislation. Lately the *in situ* conservation measures are being complemented by such *ex situ* measures as the captive breeding programme designed especially to safeguard those rhinos that are doomed in their present habitats as a result of the rapid conversion of the forests to other land uses. Such gene banks offer the possibility for returning the animals to the wild at a later stage. However, for any developing country, the most economical gene bank must surely be the proper management of the animals in their natural habitats.

Conservation problems are often rooted in the socio-economic conditions of the country. In Indonesia, conservation of natural resources must be seen in the context of the country's rapidly growing human population and its impact on this resource base. Conservation and development are inextricably inter-related. We must adopt a policy for the wise utilization of our natural resources so that we could continue to derive the benefits from such resources without eventually destroying them. This calls for the sustainable utilization of our natural resources.

The two species of rhino in Indonesia represent an outstanding component of our natural heritage, and so every effort must be made to ensure their continued survival in their natural habitats. In 1978, Indonesia acceded to CITES (Convention on International Trade in Endangered Species of Wild Flora and Fauna) which effectively banned the trade in rhino products. Nevertheless, poaching still remains a serious problem on account of the high commercial value of the rhino horn. The only long term solution to stopping the trade in rhino products depends on how successful we are in reducing the demand for them. There is an urgent need to educate the public to make them more aware of the conservation problems. The IVth IUCN/SSC Asian Rhino Specialist Group Meeting gives us reasons to be optimistic that international organizations would continue to assist us in our efforts to conserve the rhinos.

Minister of Forestry

DR. SOEDJARWO