

**SUSTAINING UPLAND RESOURCES**  
**PEOPLE'S PARTICIPATION IN WATERSHED MANAGEMENT**



**Anis A. Dani and J. Gabriel Campbell**

**ICIMOD OCCASIONAL PAPER NO. 3**

**Kathmandu, Nepal**  
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# SUSTAINING UPLAND RESOURCES

People's Participation in Watershed Management

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International Centre for Integrated Mountain Development  
Kathmandu, Nepal

# SUSTAINING UPLAND RESOURCES

ICIMOD Occasional Paper No. 3

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## People's Participation in Watershed Management

This paper examines the role of people's participation in watershed management in the context of the Integrated Mountain Development (ICIMOD) project. It discusses the importance of people's participation in the planning, implementation and monitoring of watershed management programmes for sustained utilization of mountain resources.

The present study identifies watershed management and people's participation as key factors for sustainable upland resource management. It also identifies the role of people's participation in identifying promising watershed management programmes and in identifying promising watershed management programmes.

We wish to express our sincere gratitude to the two authors, Anis Dani and J. Gabriel Campbell, and to the many people who gave their time during field visits and interviews and contributed in many other ways to this document.

It is hoped that the study will help in watershed management in the development of watershed management programmes for upland conservation and development.

**Anis A. Dani and J. Gabriel Campbell**

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**ICIMOD OCCASIONAL PAPER NO. 3**

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Cover photograph : A Village Organisation meeting in Gilgit District

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This review of people's participation in watershed management activities in the Hindu Kush-Himalaya Region reflects a concern, shared by the Food and Agriculture Organisation of the United Nations (FAO), and the International Centre for Integrated Mountain Development (ICIMOD), that upland conservation can only be successful if local people are involved in its planning, implementation and benefit from investment programmes for sustained utilisation of mountain watersheds.

The present study identifies watershed management and other related projects in which upland communities participate to a varying degree, with a view to assessing the strategies presently employed and to identifying promising approaches that might warrant further analysis and dissemination.

We wish to express our sincere gratitude to the two authors, Anis Ahmad Dani and J. Gabriel Campbell, and to the many people who gave their time during field visits and interviews and contributed in many other ways to this document.

It is hoped that the study will further stimulate interest in the development of people's participation in upland conservation activities through a clearer understanding of the respective roles of Governments, project managers, extension staff and the upland communities themselves.

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**Colin Rosser**  
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Ms. Frances Ramble contributed substantially to this paper by helping to collect, analyze and prepare the information obtained from the project profiles and working as an untiring and valuable Research Assistant.

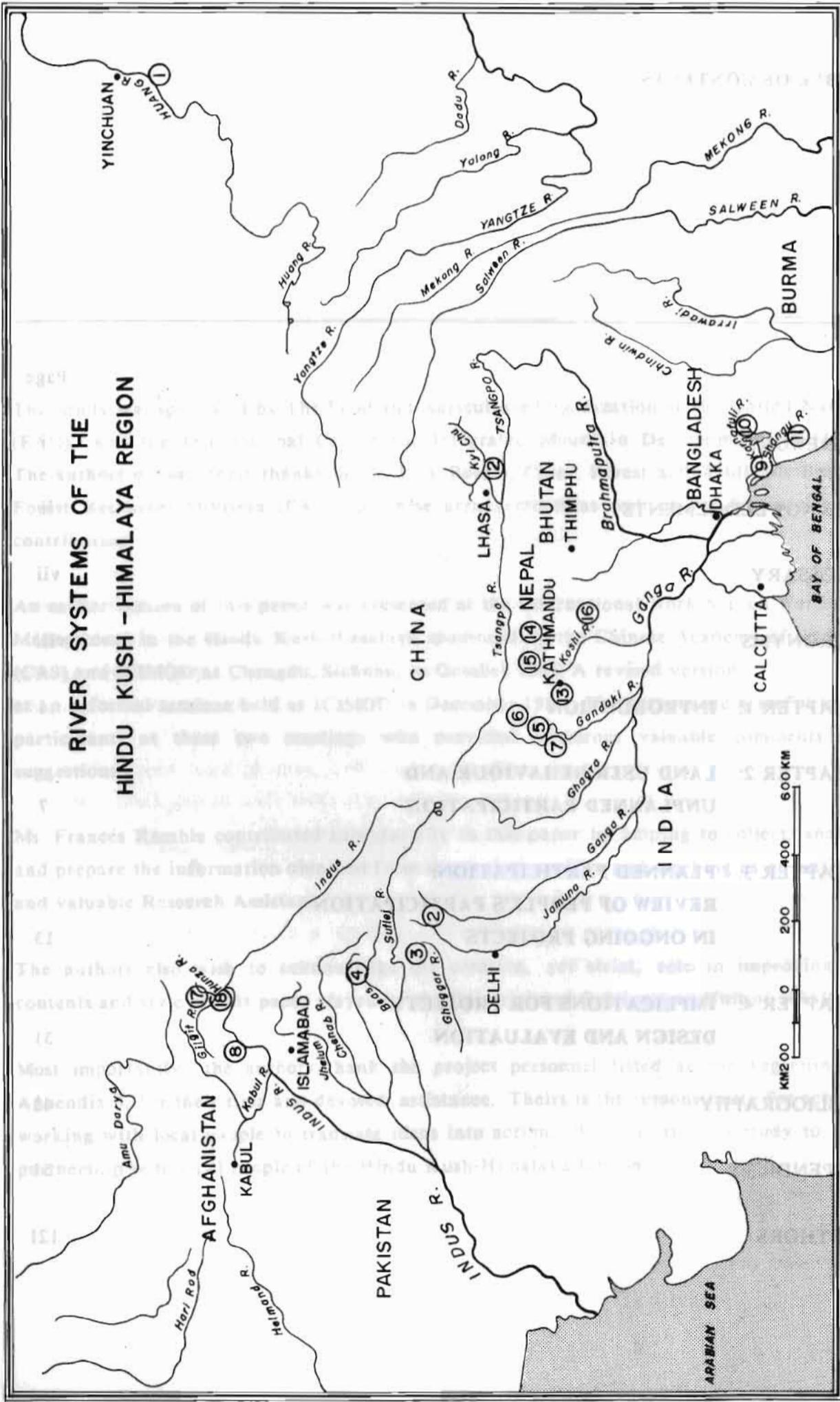
The authors also wish to acknowledge the creative, yet strict, role in improving the contents and style of this paper played by the Editorial and Publications Unit of ICIMOD.

Most importantly, the authors thank the project personnel listed at the beginning of Appendix 3, for their time and devoted assistance. Theirs is the responsibility for actually working with local people to translate ideas into action. We dedicate this study to their partnership with local people of the Hindu Kush-Himalaya Region.

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## GLOSSARY

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<i>ashre</i>	communal cutting of grass
<i>chowkidars</i>	guards/watchers
<i>chulha/chulho</i>	improved woodfuel stove
<i>cown</i>	oryza rice variety
<i>dao</i>	sickle
<i>gaun sallah</i>	village consultation
<i>goshalla</i>	community grazing land
<i>gram sabha</i>	village assembly
<i>jhum, jhuming</i>	slash and burn agriculture
<i>khas land</i>	government land
<i>kuhl</i>	irrigation channel in high mountains of Pakistan
<i>Mahila Mangal Dal</i>	women's organisation
<i>naike</i>	nursery foreman
<i>numbardar</i>	village headman
<i>pancha</i>	elected member of village assembly
<i>panchayat</i>	village unit, or elected assembly
<i>pradhan pancha</i>	elected village headman
<i>rastriya panchayat</i>	national legislature
<i>samiti</i>	committee
<i>sarpanch</i>	elected village headman
<i>shamlat</i>	community grazing and forest land
<i>tuki</i>	local activator and motivator for rural improvement
<i>union parishad</i>	union council
<i>ward</i>	sub-panchayat level assembly

Figures

- 1. Participatory Planning
- 2. Types of Participatory Planning

Figures

- 1. Planning ADAB Australian Development Assistance Bureau
- 2. Incentive AKRSP Aga Khan Rural Support Programme
- 3. Incentive APROSC Agricultural Projects Services Centre
- 4. Training BARI Bangladesh Agriculture Research Institute
- BSCIC Bangladesh Small and Cottage Industries Corporation

Map

- CCC Catchment Conservation Committee
- 1. River CFDP Community Forestry Development Programme
- CHTDB Chittagong Hill Tracts Development Board

Plates

- CISNAR Commission for Integrated Survey of Natural Resources
- CMU Central Management Unit
- 2. Factory DFC District Forest Controller
- 3. Sustainable DFO District Forestry Officer
- 4. Indigen DSCWM Department of Soil Conservation and Watershed Management
- 5. Conser FAO Food and Agriculture Organisation
- 6. Land U GOI Government of India
- GTZ German Agency for Technical Cooperation

Tables

- HMG His Majesty's Government of Nepal
- 1. Project HRS Household Responsibility System
- Project HTDP Hill Tracts Development Project
- 3. Exature IHDP Integrated Hill Development Project
- 4. 1st Pro JT Junior Technician
- 2. Incent JTA Junior Technical Assistant
- by WSI KHARDEP Kosi Hills Area Rural Development Project
- Incent MLA Member of Legislative Assembly

MPLD	Ministry of Panchayat and Local Development
NAFP	Nepal/Australia Forestry Programme
NWFP	North Western Frontier Province
ODA	Overseas Development Administration (UK)
PADEC	Programme Area Development Executive Committee
PCC	Panchayat Conservation Committee
PCV	Peace Corps Volunteer
PDPP	Panchayat Development Programme Planning
PF	Panchayat Forest
PFC	Panchayat Forestry Committee
PPF	Panchayat Protected Forest
PPI	Productive Physical Infrastructure
RCUP	Resources Conservation and Utilisation Project
RRM	Related Resource Management
SATA	Swiss Association for Technical Assistance
SECID	South East Consortium for International Development
SO	Social Organiser
T & V	Training and Visit system of extension
TRUCO	Trust Building and Cooperation
TWP	Tinau Watershed Project
UMN	United Mission to Nepal
UNDP	United Nations Development Programme
UP	Uttar Pradesh
USAID	United States Agency for International Development
USF	Unclassed State Forests
VO	Village Organisation
WAPDA	Water and Power Development Authority
WSM	Watershed Management
VPG	Village Production Group



Plate 1. The Shepherd. (Photo: J. Gabriel Campbell)

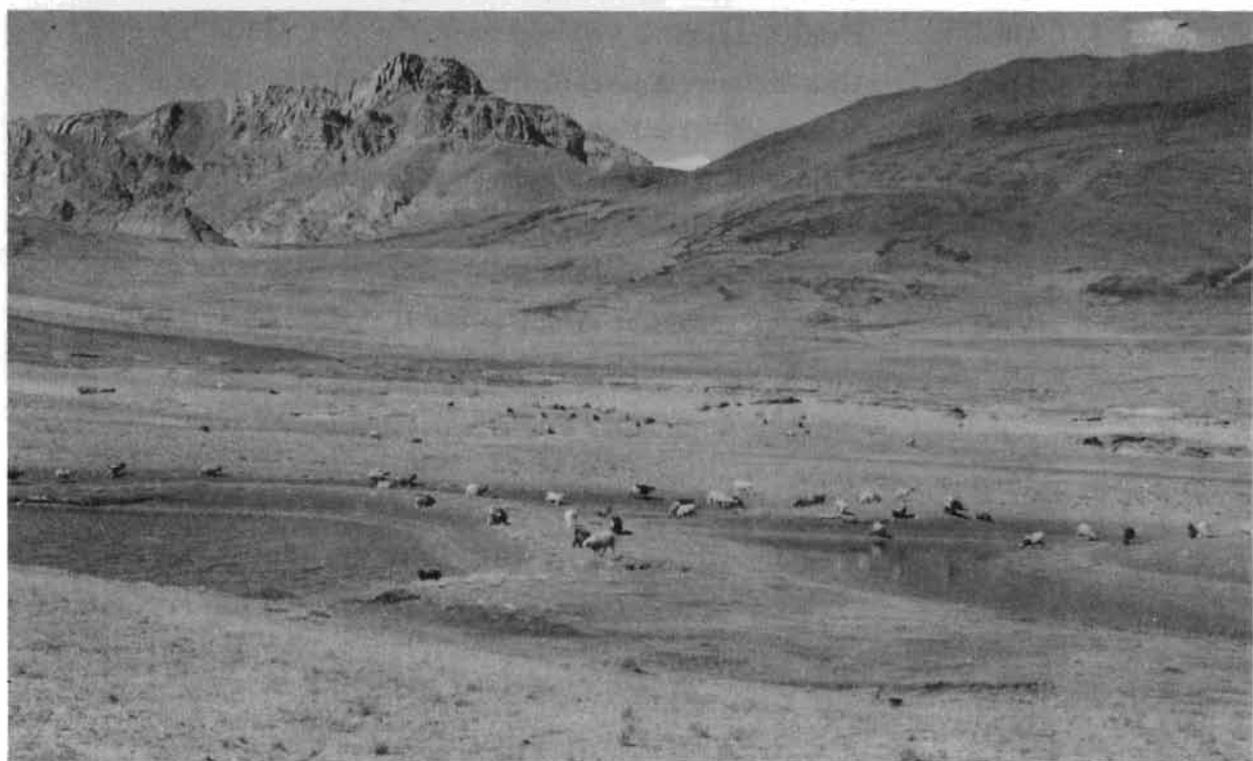


Plate 2. Pastoral Nomadism on the Tibetan Plateau (Photo: J. Gabriel Campbell)