

AGA KHAN RURAL SUPPORT PROGRAMME  
BALTIKIAN



# HIGH ALTITUDE INTEGRATED NATURAL RESOURCE MANAGEMENT

**REPORT NO. 6**

**INFORMATION AND DOCUMENTATION**

**LIV ELLINGSEN  
MAQSOOD KHAN**

**AKRSP - NLH, DECEMBER 1998**

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**HIGH ALTITUDE INTEGRATED NATURAL RESOURCE MANAGEMENT:** This is Report No 6 of seven progress reports presenting the activities and preliminary findings of joint research under an institutional cooperation programme between the Aga Khan Rural Support Programme, Pakistan, and the Agricultural University of Norway. The report addresses the sub-theme, *Information and documentation*

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#### **TEAM MEMBERS**

**NLH:** Liv Ellingsen

**AKRSP:** Maqsood Khan

#### **PROJECT REPORTS 1998**

Report No. 1: Summary report

Report No. 2: Institutions and organisations in pasture and forestry management

Report No. 3: Pasture, livestock and biodiversity

Report No. 4: Natural forest inventory

Report No. 5: Gender, resource management and livelihood security

Report No. 6: Information and documentation

Report No. 7: Socio-economic survey of Basho (project site)

More copies of the reports may be obtained from AKRSP, Regional Programme Office, Skardu or Noragric's Library.

## **Preface**

The Aga Khan Rural Support Programme (AKRSP) and the Agricultural University of Norway (NLH) have initiated a cooperation programme on alpine resource management. The programme was planned during mutual visits in 1997, and implementation started in March 1998. The programme is funded by the Norwegian Agency for Development Cooperation (NORAD) as an integrated part of Norwegian support to AKRSP's natural resource management programme in Baltistan. In 1998 the main activity was an integrated study of alpine resource management systems (pasture and natural forest) in the Basho watershed of Skardu district. Appendix 1 lists the main components and AKRSP - NLH counterparts.

This field report briefly presents activities and results under the component on *Information and documentation*.

## **Acknowledgements**

*During the first year of implementation participants have enjoyed the opportunity of carrying out field research in the Basho watershed of Skardu District. We thank the people of Basho, including their representative, the Basho Development Organisation (BDO), for a warm reception and permission to work in the area. Men and women of the eight villages of the watershed have contributed of their valuable time and knowledge to joint activities, such as participatory learning exercises, field trips, village meetings and interviews. Local people also made their school available for a researcher and her family. The village organisations and the Basho Development Organisation have shown exceptional hospitality and support. It has been agreed that all maps, reports and other documentation shall be made available to the BDO, when appropriate also for display in local schools.*

*We thank the District Commissioner, Skardu, Haji Sanaullah, and other government officials, for their interest in the collaborative programme and for offering useful recommendations and advice, and in some cases active participation in the programme. The practical implementation of the field programme was made a lot easier by the generous offer from the Divisional Forest Officer, Skardu, Mr Sharif, that AKRSP and visiting researchers could use the Forest Department Guest House in Basho.*

*We thank NORAD and the Royal Norwegian Embassy, Islamabad, for the continued support and for the consistent good-will towards the cooperating institutions, as well as active interest in the challenges and development potential of Baltistan.*

*AKRSP made excellent arrangements for field research. All Norwegian participants sincerely appreciate the many efforts without which they would not have been able to carry out research in Baltistan.*

*Support by local people, government institutions and the donor agency will remain a condition for the project to achieve its goals. The partners appreciate with humility the good relations and many contributions they have enjoyed so far. We hope that the linkage programme may continue and grow to the benefit of local people, the co-operating institutions and relevant government authorities.*

*Ås/Skardu,*

## **Executive summary**

Access to existing information and documentation for future use is a prerequisite for doing research and disseminating research results. In a team co-operating across disciplinary and geographical boundaries, information resource management represents an important challenge.

Right from the start, a librarian has been included in the Norwegian project team, working closely with researchers in Norway and to AKRSP Baltistan via the leader of the Monitoring, Evaluation and Research Section (MER) as a counterpart. By using existing library facilities and systems as a focal point for project documentation, information collected has been made more easily accessible for project partners as well as for other interested parties.

The main activities in 1997/98 have been:

### **1) In Norway:**

- starting a special collection of literature on the study area and topics of interest, located at Noragric, NLH.
- recording bibliographical data in two different database systems, BIBSYS and ProCite.
- creating a project site on the World Wide Web (<http://www.nlh.no/noragric/projects/akrsp/akrsp.html>)
- creating a FileMaker database for recording information networks and institutions relevant for information exchange
- keeping up current contact with AKRSP Baltistan on information and documentation issues

### **2) In Baltistan:**

- hosting the NLH researchers' team for identification and selection of project site. Also arranged meetings, discussions for NLH counterparts on information sharing, with AKRSP staff at Core office, RPO Gilgit and Baltistan.
- launching the process to establish a regular library at Regional Programme Office Baltistan to facilitate work not only for AKRSP staff but also of researchers, consultants, interns and visitors.
- assigning staff for documentation work and training in the use of ProCite database system.

During, the first year of the project, much work has been spent on systems development, establishing routines and contact with project partners at both ends. The collections, databases, WWW pages and directory must be seen only as beginnings, not as results. The information and documentation component is a part of the research and competence-building processes, and the results are measured by its importance to the ongoing research and competence building covered by the project.

**List of acronyms and abbreviations**

AKRSP	Aga Khan Rural Support Programme
BIBSYS	The shared library catalogue of Norwegian university and research libraries
FileMaker	Database system used for recording information networks and institutions
HANRM	High Altitude Natural Resource Management
MER	Monitoring, Evaluation and Research Section
NLH	Agricultural University of Norway
NORAD	Norwegian Agency for Development Cooperation
Noragric	Centre for International Environment and Development Studies, NLH
ProCite	Database software for literature reference management
RPO	Regional Programme Office

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## 1. INTRODUCTION

### 1.1 *Background*

The context of this report is the agreement between AKRSP and NLH to cooperate on a combined programme of competence building and applied research on High Altitude Integrated Natural resource Management (Project document: NLH - AKRSP, 1997). It is stated here that:

*The aim of the institutional cooperation programme is to gain further insights into pasture and forest resources and their role in farmers' livelihood systems. Participatory, applied research shall enhance the capacity of AKRSP to work with village organisations and partner institutions for sustainable management of pasture and forestry resources, through providing knowledge which may be used in developing management and conservation strategies, initially at project sites.*

The specific objectives relating to AKRSP are:

- to expand the knowledge of the resource systems of Baltistan through a joint research project in order to enhance the capabilities of project staff to respond to the challenges of integrated resource management in high-altitude areas.
- to improve AKRSP documentation and extension systems with respect to forestry and pasture
- to improve AKRSP's links with national and international research institutions

The specific objectives relating to NLH are:

- to strengthen its knowledge-base for development-oriented research in the region and within fields where NLH are already working

- to gain the opportunity for carrying out applied, participatory research together with an implementing NGO and farmer-based organisations
- to provide an opportunity for staff, students and ex-students to gain field level working experience in Baltistan, Pakistan

The main **activities** in the programme will be:

- planning and conducting joint, participatory field research/documentation
- training and capacity building for AKRSP staff, primarily through joint research/documentation
- disseminating and sharing knowledge gained through workshops, training sessions, networking and publications
- exchanging information, references and literature through a library link for improved networking and information management
- technical advice for field-level application of the knowledge generated through research

### 1.2 *Information and documentation*

Access to existing information and documentation for future use is a prerequisite for doing research and disseminating research results. In a team co-operating across disciplinary and geographical boundaries, information resource management is an important challenge. The AKRSP-NLH research co-operation cuts across a variety of disciplines; researchers are scattered at various NLH departments, and contact with counterparts in Baltistan may at times be

difficult due to infrastructural and organisational constraints.

AKRSP has developed well functioning systems for documentation and dissemination of their own experiences and findings. However, the need for information input from external sources was also stressed by professionals in the organisation. A need for regular flow of current information of professional character had been stressed during the early stages of contact between AKRSP and NLH.

To meet these needs and challenges an information component was incorporated in the project as an integrated support function to all other project components. Focus was to be on information retrieval and documentation within the thematic areas of the project and the geographical areas covered.

Objectives as stated in the project document and activity plan for 1998, were

- To create a common information resource base relevant to all project areas
- To facilitate exchange of information between project counterparts in Baltistan and Norway
- To support AKRSP Baltistan's efforts in networking for information access.

Expected output of the information sub-project as stated in the project document and activity plan for 1998, were

- Special collection of relevant literature
- Database of relevant information sources
- WWW page linking up to Internet resources

- Directory of relevant institutions, organisations and information networks

A librarian has been attached to the Norwegian project team in charge of the information component. Her counterpart has been the leader of AKRSP Baltistan's MER section. By using existing library facilities and systems as a focal point for project documentation, information collected was seen to be more easily accessible for all project partners as well as for other interested parties, and optimal use of available information resources would hopefully be obtained.

## 2. LITERATURE COLLECTION

### **In Norway**

A special collection of literature has been started by the Noragric Library at NLH. The main bulk of documents have been collected by Norwegian project partners during field work in the area, but a considerable amount of literature has also been purchased from various sources. Not all documents in the collection are directly related to AKRSP or its activities, nor to the geographical area. They are, however, thought to be of relevance for projects sub-themes.

A separate collection simplifies access to the literature for project partners when they visit the library; it has also been seen to function well for other users, e.g. Norwegian and foreign students working on adjacent countries, mountain resource management in general etc. Use of the collection by non-project users is encouraged, as part of an "information commons" philosophy.

All documents in this collection are recorded in the BIBSYS library database, searchable by simply typing AKRSP in the free text field of the search screen. The collection of links from the project's WWW site (<http://www.nlh.no/noragric/projects/akrsp/akrspdoc.html>) may be seen as an extension and supplement to the literature collection.

By October 1998, most of the systems at the Norwegian end seem to be running smoothly, and practical work with adding documents to the collection will continue throughout the next activity period.

#### **In Baltistan**

AKRSP Baltistan acquires a large amount of information on development issues, especially its own intervention since its inception in Northern Pakistan. The Core Office in Gilgit has a well organised library but the Baltistan region has so far not felt the need to establish a library. As a result, all the material and books have been scattered at various locations and without references to trace the material out as and when it is needed. Now, as part of the process to establish a well organised library and proper documentation system, all the material has been moved to the library room. Lists are being prepared on computer and categorisation and coding will be completed soon.

Books on many subjects relevant to mountain development and the AKRSP-NLH project have been purchased for project funds. The titles of these books included agriculture, livestock, forestry, environment, logical

frameworks and many more. The books have been placed in the library and are frequently used by staff of different sections of AKRSP Baltistan.

### **3. DATABASE OF RELEVANT INFORMATION SOURCES**

As already stated, simple access and optimal use of information resources was seen as important. The project wanted to avoid a monopolising of information resources. It was natural to look for a channel which would be simple to use for the librarian, accessible for project partners and also open to other users.

#### **In Norway**

The Noragric/NLH library system uses BIBSYS, the shared library catalogue of all Norwegian university libraries and most research libraries in Norway. It was seen as an advantage that the database could be integrated in BIBSYS, which is accessible on the WWW and through *telnet* connection. This also facilitates daily management of the collection as circulation and acquisition, which can be integrated in the daily running of the Noragric library (Appendix II).

BIBSYS allows cataloguing of online resources, and provides hot links for direct access to the documents from its WWW version. This supplements the WWW page of links to relevant resources, which can then concentrate on broad issues, leaving individual documents to be catalogued in BIBSYS. However, according to BIBSYS policies only independent/full documents should be recorded in the database. The reason for this is that

analytical records (records of parts - articles, chapters etc.) have been seen to create some trouble in a system which is also meant to manage housekeeping of library routines: circulation, acquisitions etc. as described above. These policies are undergoing a change, but for the project we had to find an alternative software for recording parts of documents.

Since BIBSYS records can be exported in ProCite format, and ProCite has been used as a personal documentation system by various Noragric staff for years, it was seen as a good thing to build on existing competence and practice at Noragric (Appendix III). ProCite was taken into use by AKRSP Baltistan in September 1998, and is also there seen as a simple and flexible software for their use in project documentation. The intention is to export BIBSYS records into ProCite at regular intervals to make one complete database of literature resources available at the Norwegian end. ProCite data can then be exchanged between Noragric, AKRSP and individuals using ProCite for total overview of available resources. Documents may be exchanged by mail or through project counterparts or others who are travelling. It has been stressed that the actual exchange of documents should primarily take place between individuals or groups working together to ensure the relevance of documents.

By October 1998 we were still facing some technical problems in exporting BIBSYS data to ProCite, but we seem to be approaching a solution. The printout from the Procite database at Noragric is given as Appendix III.

To sum up:

- BIBSYS is used by the Noragric library for recording references to full documents held in the library (books, reports proceedings, maps, videos, CD-ROMS etc.) and online documents.
- At Noragric ProCite is used for recording references to parts of documents AND independent documents not held in the library.
- At AKRSP Baltistan ProCite is used for recording references to all kinds of documents relevant to the project.

The intention is to exchange data for integrated overview of available resources to facilitate exchange of information between project counterparts in Baltistan and Norway.

#### **In Baltistan**

Procurement of a computer for the library is under process and we hope that it will be done by mid-January 1999. In the meantime, MER computers are being used for training staff in the use of library software and also to create the database of relevant documents.

Ms. Gulcheen, an interpreter/assistant, hired for one of the NLH researchers, was initially selected for training in managing the library (or at least resource person to NLH on the information component). She was assigned to learn computing and the ProCite software for the library database. Later however, Mr. Yousf, Monitor, MER, has been assigned these tasks under the supervision of Mr. Maqsood Khan.

#### 4. WWW PAGE

##### **In Norway**

Noragric's WWW service has been at an intermediate stage of development since the AKRSP-NLH co-operation was entered into. In lack of an approved policy for the entire institution, the project decided to keep its pages simple for possible changes to be adopted without too much work. The pages so far (October 1998) consist of a "home page" (<http://www.nlh.no/noragric/projects/akrsp/akrsp.html>) guiding visitors to:

- Summary information on the AKRSP-NLH co-operation
- Project document and activity plan 1998
- Links of interest

Links have mainly been provided to collective sources and have so far been arranged under the following headings:

- Pakistan in general
- Mountains in general, Himalaya in particular
- Northern areas, Karakorams, Baltistan
- Documents on AKRSP
- Bibliographical sources

Whereas the summary information and project document function both as internal documentation to project partners and to colleagues in Norway and abroad, the links are primarily meant to serve as starting points for information retrieval for project partners. However, there are indications that others have also found this simple collection of links useful. A few e-mail requests and comments have come from different places in the world. There has been no systematic scanning of

visitors' logs to find out how the pages have been used.

We regret that so far colleagues in Baltistan do not have access to this or other Internet resources (e.g. direct access to BIBSYS), but since staff and student exchanges will form part of the project, we trust that this will not only be of value for the Norwegian partners. Prints from Internet sources may of course be exchanged between project partners in the same way as other printed material.

##### **In Baltistan**

In Baltistan, there is not yet access to the Internet. Luckily there is now access to digital telephone facility. An e-mail connection from Islamabad has already been obtained. Through a high power modem and digital telephone system there will soon be connection with the rest of the world. The facility will prove a bit expensive as it will be accessed through satellite on NWD circuit. However, it is assumed that the benefits from it would pay off.

#### 5. NETWORKING FOR INFORMATION EXCHANGE

AKRSP has developed well functioning systems for documentation of their own experiences and findings. However, the need for information input from external sources is stressed by professionals in the organisation. A need for regular flow of current information of professional character to AKRSP was stressed during the early stages of contact between AKRSP and NLH.

A simple method which can be used by the organisation at various levels, as well as by individuals, is networking for information exchange. Several information networks run by a variety of organisations issue newsletters and disseminate publications free of charge to recipients in developing countries. This option has to some extent been used by AKRSP staff (e.g. the Forests, Trees and People Programme reports that several AKRSP staff subscribe to it), but the method could be strengthened by more systematic use at the Baltistan RPO and increased awareness among staff at all levels.

#### **In Norway**

We decided to establish a simple directory of information networks, or other organisations and institutions, disseminating information relevant for AKRSP's activities, and particularly for the topics of the AKRSP-NLH co-operation. This could be used as a starting point for networking, and result in a current flow of documents, which could be arranged in simple ways for future retrieval or just "floating around" as a common resource without much management. Experience will show to what degree AKRSP will need to institutionalise networking efforts for more systematic use of information and dissemination within the organisation.

A *FileMaker* database has been established for the above mentioned purpose, and the first few addresses will be found as Appendix IV to this report.

#### **In Baltistan**

During the course of one year's time, AKRSP Baltistan has severely felt the need of a library

to meet at least the information sharing requirements of its staff as well as outside organisations and visitors, consultants, interns, researchers etc. Therefore an effort has been put into launching a proper library which would also be used as an information resource centre for the project.

A room has been allocated and by December 1998 it has been properly furnished to meet the library requirements. A new and efficient computer is being arranged for the library. This computer is likely to have access to AKRSP's e-mail connection. An MER monitor has been assigned the task of managing the library. In addition the NLH assistant at AKRSP Baltistan is being trained to look after the resource base at the library for this project. Both the proposed librarian and the assistant are presently (December 1998) receiving training of using computers and the ProCite Software under supervision of Mr. Maqsood, the AKRSP counterpart on the information and documentation component of the project.

Once operational, the library will attempt to get linked with different information networks round the globe with the help of NLH. Ms. Liv Ellingsen has already provided considerable information regarding information networks.

## **6. CONCLUSIONS**

During the first year of the project much work has been spent on systems development, establishing routines and contact with project partners at both ends. The collections,

databases, WWW pages and directory must be seen only as beginnings, not as results. The information and documentation component must be seen as a part of the research and competence-building processes, the results can only be measured by its importance to the ongoing research and competence building covered by the project.

Feedback from project partners has so far been positive. It is our hope that in the next stage there will be closer contact and more frequent use of common resources across the disciplinary and geographical boundaries.

**APPENDIX I : OVERVIEW OF PROJECT COMPONENTS AND COUNTERPARTS**

<b>Project</b>	<b>NLH</b>	<b>AKRSP</b>
<b>Institutions and organisations in pasture and forestry management</b> (property rights and other formal and informal institutions interpreted as the rules for behaviour; organisations/actors within the institutional framework)	<b>Hans Sevatdal,</b> Håvard Steinsholt, Poul Wisborg	<b>M. Akbar Raza,</b> Dr Abbas; Wazir Ghulam Haider
<b>Pasture, livestock and biodiversity</b> (the dynamics of high pasture management, fodder demand and fodder production, quality assessment for land use planning and conservation of soil and vegetation)	<b>Øystein Holand,</b> <b>Per Wegge,</b> Kathrin C. Hofmann, Åge Nyborg, Veronika Seim, Thor Sigurd Thorsen	<b>Iqbal Hussain,</b> Dr Abbas, Jawad Ali, Ulrik Motzfeldt
<b>Farm forestry and natural forest assessment</b> (forest and tree resources assessment, regeneration evaluation, and analysis of the supply and demand of forest products and linkages between farm-forestry practices and natural forest)	<b>Knut Velle,</b> Johnny Valen	<b>Jawad Ali,</b>
<b>Gender in natural resource management</b> (dynamics of changes in women's and men's use, access to and control over resources, and the effects of changes on household food security)	<b>Ingrid Nyborg</b>	<b>Nazir Ahmed,</b> Gulcheen Aqil
<b>Information and documentation</b> (creating a common information resource base relevant to all project sub-themes, facilitating exchange of information between project counterparts in Baltistan and Norway and supporting AKRSP Baltistan's efforts in networking for information access)	<b>Liv Ellingsen</b>	<b>M. Maqsood Khan,</b> Gulcheen Aqil, Mr. Yousuf
<b>Coordination</b>	<b>Poul Wisborg</b>	<b>Khaleel Tetlay</b>



## **APPENDIX II: BIBLIOGRAPHICAL RECORDS IN BIBSYS, OCTOBER 1998**

References from the BIBSYS database, 30<sup>th</sup> October 1998. All documents are held in the Noragric library. Location and document identification in the database are given. References have been arranged according to date of publication, most recent documents on top. No index terms given. Some notes are given in Norwegian.

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Pakistan [map]. - Karachi : Haqqi Brothers, [199?]. - 1 map.  
Road map and provinces.  
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Nigel J.R. Allan. - Davis, Calif. : [Nigel J.R. Allan], 1998.  
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**APPENDIX III: BIBLIOGRAPHICAL RECORDS IN PROCITE (NORAGRIC), OCTOBER 1998**

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Abstract: Mountains are always perceived as isolated places of refuge or as barriers dividing population groups. On the contrary, these characterizations of mountains and their inhabitants cannot be substantiated in modern times because road and air transportation has totally transformed mountain societies. Lowland penetration into and over mountains through gateway towns in the foreland integrates mountain communities into the dominant political and economic structures of the lowlands.

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During the past twenty-five years four major highways have been constructed across the mountain rimland of South Asia. None were constructed to meet the demands of the modern traveler; these highways were built for strategic military and political purposes. The geopolitical background of these highways is well known because they were a response to the international pressures in a mountain area that was not well demarcated until recently. The four mountain roads are the routes north of Kabul, Afghanistan, over the Hindukush, the Karakorum Highway now open between Islamabad, Pakistan and Tashgurkhan in Tajik Autonomous country of Xinjiang Province, China, the road from Srinagar out of Kashmir to the town of Leh in Ladakh, and the road from Kathmandu to Lhasa, in Tibet Autonomous Region in China. All four highways have had a highly variable impact on the local culture. Local and national responses to tourism generated or aided by these four highways often conflict. They range from the active positive response in Nepal and Tibet, through favourable but less than enthusiastic response in India, to silent acceptance in Pakistan, and aggressive reaction to foreign cultural invasion in Afghanistan. The attitudes and behaviour of the people living in the area of these four highways are assessed by application of the Bjorkland-Philbrick Model of Cultural Interaction developed and applied in western tourism research. The notion of cultural conflation is introduced to describe the confrontation of alien, i.e., foreign tourist, views of the local host, traditionally an ethnic minority, population that differ from the majority opinion held by the equally alien ruling majority population of the country.

culture/ tourism/ destinations/ mountains/ roads/ local and regional planning/ Hindukush/ Himalaya/ Tibet/ Nepal/ Pakistan/ India/ Afghanistan/ Kashmir.

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Six forested regions of North Pakistan show that serious overgrazing and deforestation is occurring. Most deforestation is the result of local cultivators bringing more land under cultivation and alien pastoralists overgrazing in the forest margins. While intensive agriculture, such as poultry raising and orchard cropping is being adopted, these activities are not the prime reasons for land deterioration. The integration of highland-lowland areas through rapid accessibility has resulted in the lowland domination of the mountain area.

animal husbandry/ roads/ markets and trade/ environmental degradation/ ecological/ landscape change/ war and refugees/ Pakistan/ Himalaya.

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Mountain agro-systems are undergoing rapid change as motorable roads, tracks, and bridges are

constructed in hitherto isolated mountain valleys. As cultivable land is limited in Hindukush mountain valleys, existing land is subject to intensification. A growing population, the switch to high yielding cash crops, the establishment of markets, and above the new found freedom of movement, have created intense pressure on arable land, forest and pasture. Tiered belt models of mountain agro-systems based on indigenous vegetation are now unsuitable. An accessibility model is proposed.

roads/ markets and trade/ local and regional planning/ institutions and the environment/ Himalaya/ Afghanistan/ Pakistan.

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The dominant focus in mountain geography has dwelt on the relationships between the lower dwelling mountain or plains inhabitants and their seasonal move to exploit grassland sources at higher altitudes. Almwirtschaft and transhumance are two types of ecotechnologies to use Tommy Carlstein's term which integrate these time/space configurations into the local ecology and local culture. A radical transformation of these traditional modes of agro-pastoral production is occurring in all mountains of the world as the formerly remote mountain societies are integrated with the lowlands through the extension of rapid transportation routes into mountains. An example of this transformation is given for Swat district in the Hindukush mountains of Pakistan.

Pakistan/ Swat/ roads/ ecological-landscape change/ markets and trade/ agriculture/ Hindukush-Himalaya.

17. ———. 1991. "From Autarky to Dependency: Society and Habitat Relations in the South Asian Mountain Rimland." *Mountain Research and Development* 11:65-74.

Three mountain communities in the Hindukush, Himalaya, and Trans-Himalaya mountains are examined for systemic relations between society and habitat. Within the context of the Blaikie/Brookfield regional political economy model one finds quite different systems of resource management in these Muslim, Hindu, and Buddhist communities. The bio-physical environment has not been a constricting factor for optimal use. Instead, the land and water use has been manipulated through the local societal practices of resource management.

roads/ markets and trade/ local and regional planning/ people/ institutions and environment/ Himalaya/ Pakistan/ India/ Tibet.

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The host populations living around the four mountain highways in the mountain rimland of South Asian represent the full range of responses in the Bjorkland-Philbrick Model. While enhanced income from foreign exchange is seen desirable by central governments there is usually a price to be paid in terms of receptivity of the local people to foreigners. Furthermore, the plains dwelling population are often as alien as the foreigners when visiting the mountains. The attitude of Bhutan to tourism demonstrates how a small principality seeks to control alien influences. Tourism is permitted, but only at an enormous cost to the tourist. The roads to India are built, and it is inescapable that alien influences will now modify Bhutanese life. For the foreigner the South Asian mountain rimland continues to attract. The cultural impact of tourism can only be assessed in the local context: the South Asian experience has exhibited a great variety of responses.

culture/ tourism/ roads/ monitoring and evaluation/ Himalaya/ Hindukush/ Karakorum.

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Adequate food supply in the Hunza Valley of northern Pakistan has been limited by availability of irrigation water. Need to build and manage a large-scale irrigation system fostered and authoritarian political system that in turn gave priority to perpetuating itself rather than to household food production. Traditional structure of Hunza food production is examined in its human attributes and its effects on health, longevity, and nutrition. Contemporary food-production systems are evaluated.

food/ cultural landscapes/ irrigation/ health and disease/ longevity/ Pakistan/ Karakorum.

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A meso-scale methodology for obtaining and analysing primary data from a mountain environment is described. By combining village cropping data with irrigation water supply and tribal affiliation, the systemic relationships between these features are delineated for 410 villages in a Hindukush mountain valley. The emergent highly variable cropping systems indicate congruity with tribal affiliation and also with agronomy. This inclusion of cultural factors in a regional mountain research appears to a necessary precondition for micro-scale geo-ecological research. monitoring and evaluation/ mountain policy recommendations/ research programs/ ecological-landscape change/ agriculture/ culture/ Himalaya/ Afghanistan.

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This paper examines the environmental impact of 3,500,000 refugees who have fled from their homeland into Pakistan. Most live in refugee camps in North-West Frontier Province. Impacts vary widely in accordance with the type of environment from which widely different groups originated and the type into which they have been settled. Far-traveled refugees from north of the Hindukush have caused the most extensive degradation; most disturbance has been caused where refugees have been settled into forest land as distinct from sparsely vegetated arid land. It appears that Pakistan nationals have taken advantage of the ensuing confusion to indulge in illegal logging. Apart from social, political, and humanitarian concerns, this largest of recent migrations has caused extensive environmental damage, much of it probably irreversible.

environmental degradation/ ecological monitoring/ environmental impact assessment/ warfare and refugees/ deforestation/ Afghan refugees/ Pakistan.

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The recently opened Karakorum Highway (KKH) has forged a new geopolitical link between China and Pakistan. Multiplier effects of the highway have transformed the indigenous mountain society by introducing tourism and cash cropping. Enhanced accessibility created by the road has reoriented mountain land use away from the traditional altitudinal zonation model to a strassendorf model of clusters of intensity along the KKH itself.

Pakistan/ China/ roads/ ecological-landscape change/ tourism/ out migration/ markets and trade/ Karakorum.

23. ———. 1985. "Periodic and Daily Markets in Highland-Lowland Interaction Systems: Hindukush-Himalaya." Pp. 239-56 in *Integrated Mountain Development*, ed. T. V. Singh. New Delhi: Himalayan Books. (ISBN 81-7002-005-0).

This chapter examines the conceptual models that lowlanders have for mountains and demonstrates from a case study on the South Asian mountain rimland how highland-lowland circulation systems have integrated the mountains with the lowlands, and consequently, rendered our traditional models of mountains obsolete. Four models of Highland-Lowland Interaction in mountains are depicted. A market study of Pakistani and Afghan gateway towns to northern areas reveals that wheeled vehicle routes have integrated mountain areas into plains culture.

roads/ research programs/ vertical zonation/ local and regional planning/ markets and trade/ mountain policy recommendations/ Hindukush/ Himalaya/ India.

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A rapid rural appraisal survey was made of 230 village hamlets in Gilgit district, Pakistan in the summer of 1985. Data were created of the components of the geopoly, the agricultural system, found in the villages, and for the role of the role that accessibility by motor vehicle influences the diffusion of some agricultural innovation to the villages. A review of appropriate methods for gathering categorical variables and a brief review of paradigms of mountain research are given. Preliminary univariate, bivariate, and multivariate exploration of the ordered and unordered polytomous variables constituting the data set suggests relationships among the cultivars of single and double cropping villages and identifies the relationships of agricultural mechanization with the construction of jeep tracks to villages.



markets and trademonitoring and evaluation/ ecological-landscape change/ mountain policy recommendations/ Karakorum/ Pakistan.

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*Platytaenia lasiocarpa* is a common plant of the inner Himalayan ranges. The plant is mainly grazed by animals. The essential oil of *P. lasiocarpa* seed with a yield of 0.28% has been characterized with respect to its physico-chemical values and chemical composition. It is included that the essential oil, with its sweet fruity flavour, can find application in perfumes and cosmetics.
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Central Himalaya, comprising eight hill districts of the Garhwal and Kumaun region of Uttar Pradesh, has witnessed one of the most devastating forest fires of recent decades during the months of May-June 1995. In order to provide a reliable estimate of the severity of damage caused due to forest fire and for monitoring of such event in future a methodology has been developed using IRS LISS-I data of the pre and peak fire period (26-27 May 1995). Four districts of Uttara Khand (Almora, Chamoli, Tehri and Pauri) which were severely affected by fire have been selected for this study. The results show that as on 27 May, 1995 a total of 2115 km<sup>2</sup> which is 21.5 per cent of the total geographical area of these four districts had been subjected to various degrees of fire damage. The spread of the fire damage ranges from 600 m to 2650 m altitude. Chir Pine areas indicated maximum loss followed by Mixed, Oak Mixed and Oak forests. Results of overlap area study show a north-west direction of fire spread with spread rate of nearly 3.82 km<sup>2</sup>/per hour in chir pine forest. This study stresses the need for high temporal resolution data and real time monitoring system, so as to provide precise information regarding direction and rate of fire spread in order to take prompt fire control measures, especially taking into consideration data available from IRS-1C/1D, IRS-P3/WIFS and planned 1 km resolution INSAT-2E with 3 bands (Red, NIR and MIR) with possibility of every 30 minutes data (6000km by 6000 km) and even one minute data capture (3000 km NS x 6000 km NW). This would enhance the chances for 'ON LINE ADVICE' for large scale fire control.  
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**APPENDIX IV: SHORT DIRECTORY OF NETWORKS ETC. FOR INFORMATION ACCESS**

Appendix IV contains addresses to information networks, organisations and institutions distributing newsletters and other publications on topics of relevance to AKRSP's work in general and the ongoing AKRSP-NLH co-operation in particular. These addresses may be used as a starting point for networking, and result in a current flow of documents, which may be arranged in simple ways for future retrieval or just "floating around" as a common resource without much management. Experience will show to what degree AKRSP will need to institutionalise networking efforts for more systematic use of information and dissemination within the organisation.