

ENVIRONMENTAL CONSERVATION



KIBOSHO EAST

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KILIMANJARO TANZANIA



MALIHAI TANZANIA

RAFIKI/FRIENDS FOUNDATION U.S.A.

ENVIRONMENTAL CONSERVATION **KIBOSHO EAST**

CONTENTS

(Click colored page numbers in the contents list to link to those pages.)

MAPS	<u>FIGURE</u>	<u>PAGE</u>
Tanzania	I	4
Kilimanjaro Districts	II	5
Kibosho East	III	6
LIST OF AUTHORS		7
PREFACE		8
GRATITUDE		10
CHAPTER 1		13
The History of Malihai Kibosho East		13
Environmental Conservation		15
World Environment Day - 1996		23
Study Tour to Lake Manyara and Ngorongoro Crater		45
Seminar for the Patrons of Malihai Clubs		50
CHAPTER 2		54
World Environment Day – 1997		54
CHAPTER 3		76
Parent’s responsibilities in Kibosho Village		76
Children’s responsibilities in Kibosho Village		78
APPENDICES		79
A – List of trees		80
B – List of birds		82
C – List of animals		84
D – List of natural herbal medicines		86

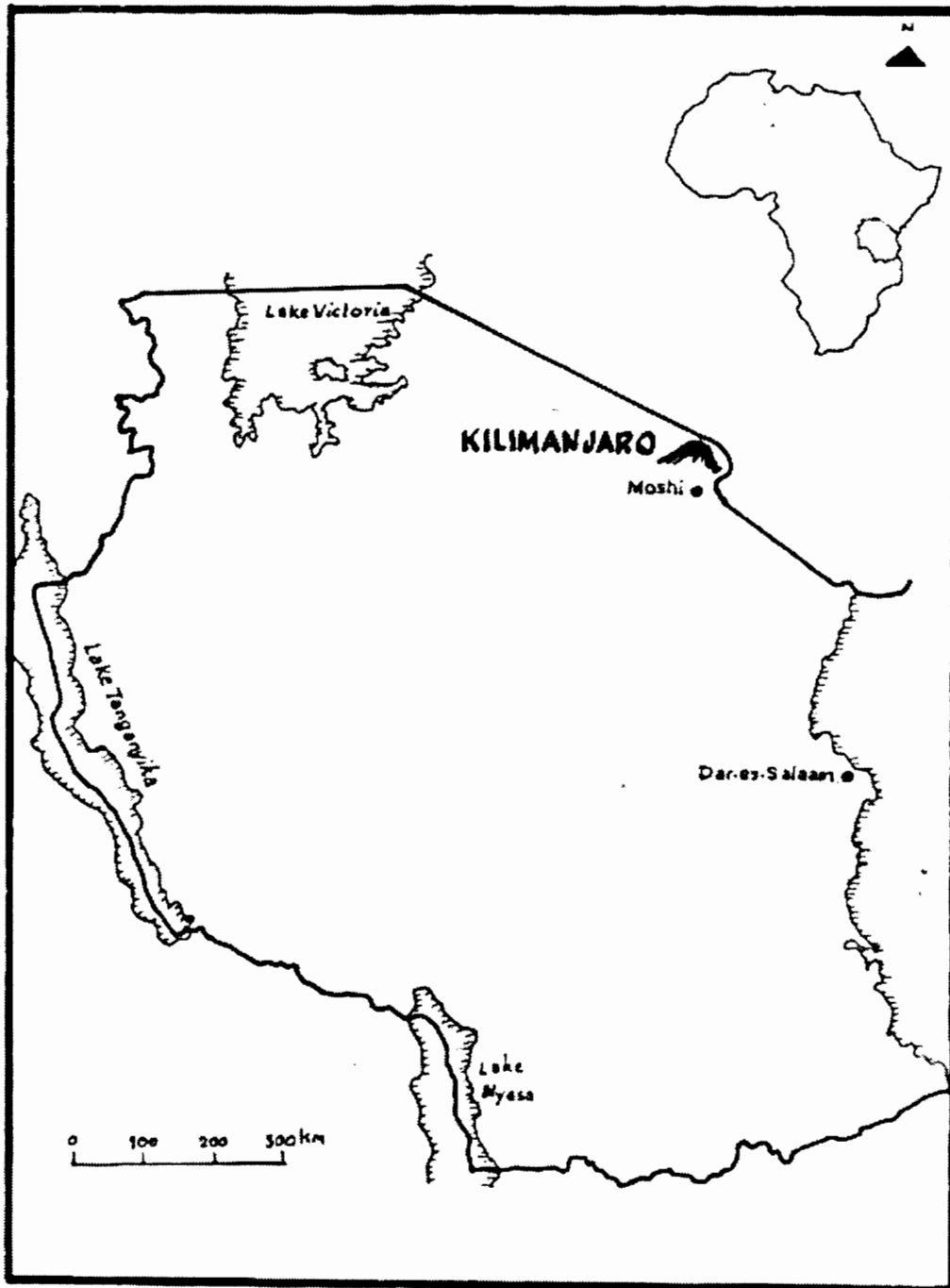


Figure 1. Location of Mount Kilimanjaro.

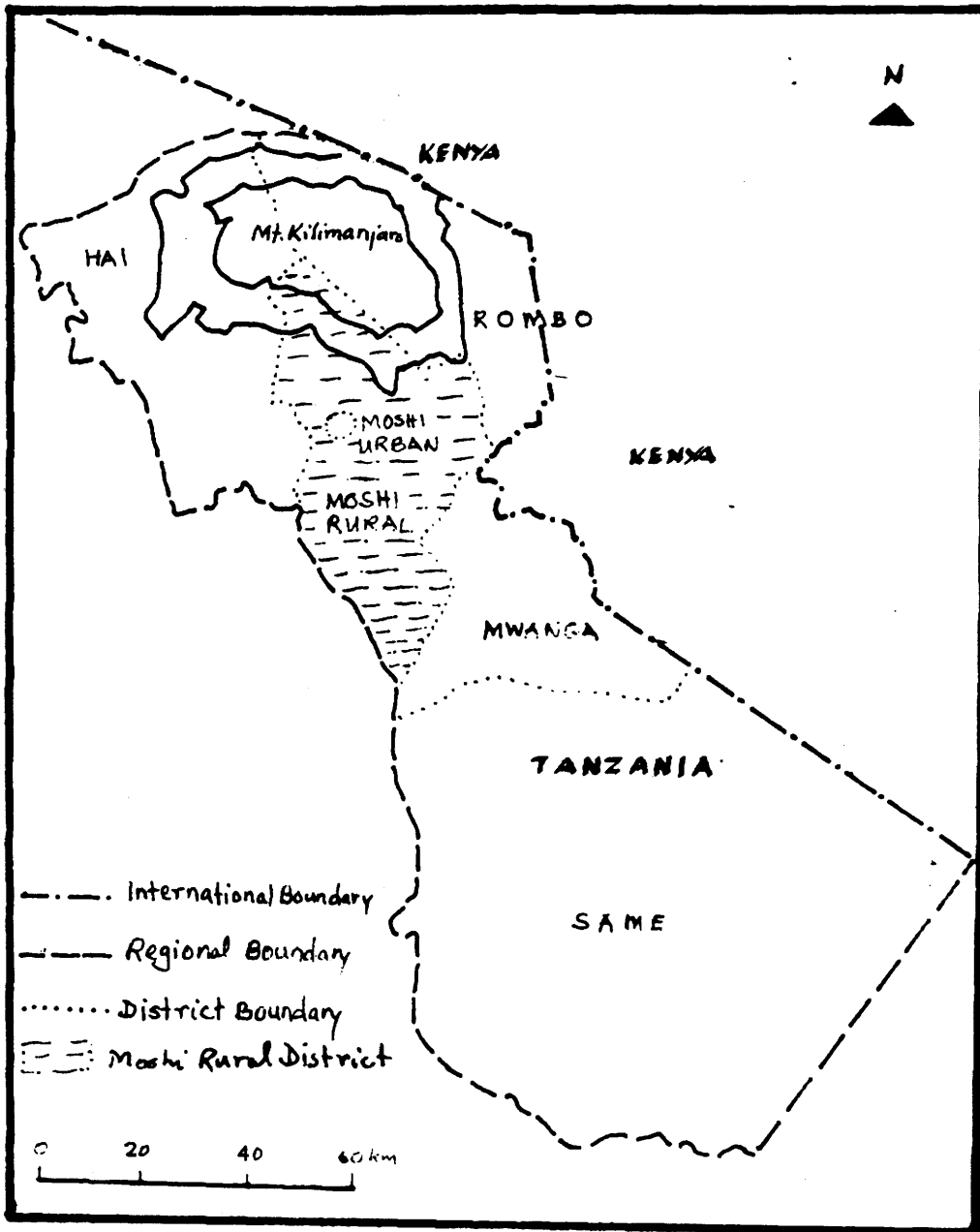


Figure II Kilimanjaro Region

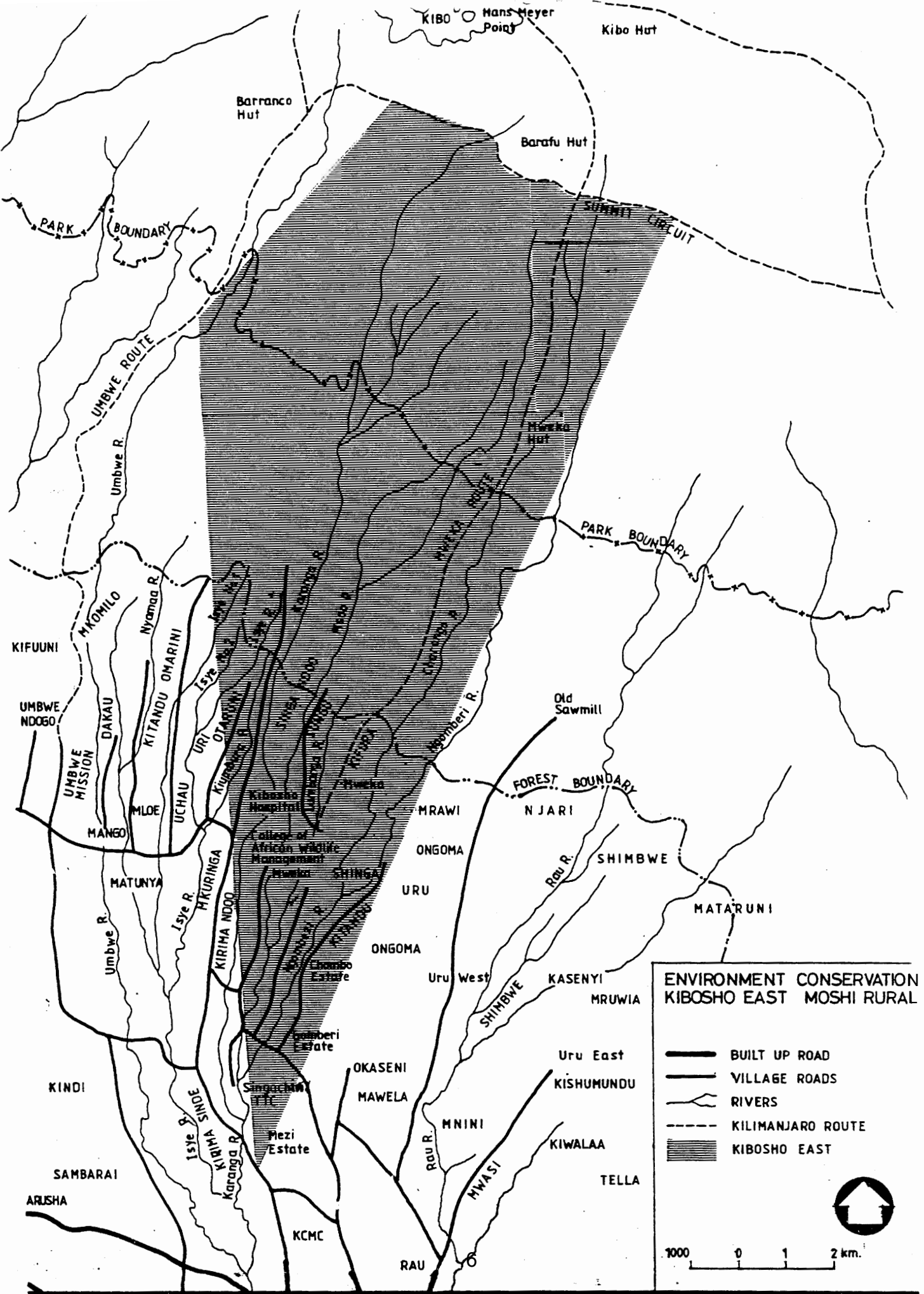


FIGURE III KIBOSHO EAST

LIST OF AUTHORS AND COORDINATORS OF THIS BOOKLET

Paul Ndakidemi	-	Teacher, Nsoo Secondary School
Clement Mbewa Mushi	-	Teacher, Mapinduzi Primary School
Lucy Njuu	-	Teacher, Mapinduzi Primary School
James Stephen	-	Teacher, Omi Primary School
Cresencia Kombe	-	Teacher, Kibosho Primary School
Felician Amani	-	Teacher, Kibosho Primary School
P. Mrema	-	Teacher, Singachini Primary School
Mrimi Charo	-	Teacher, Mweka Primary School
George Samwel Mwitani	-	Teacher, Mapinduzi Primary School
Beda Massawe	-	Teacher, Msinga Primary School
August Lello Rabu	-	Livestock Officer - Moshi
Venerandah Stephen	-	Teacher, Sungu Primary School
Sebastian Chuwa	-	Chief Patron, Malihai Clubs Kibosho East

PREFACE

This booklet is the result of various meetings and programmes of environmental education and awareness that started in 1992 in more than five primary schools in the Ward of Mt. Kilimanjaro known as Kibosho East. As a Botanist and an expert in environmental issues originating from this area, I have been instrumental in steering efforts to conserve the environment in this particular area and other places in Tanzania, while putting emphasis in those areas where degradation of the environment is most pathetic.

All the meetings and the business transacted in this booklet are on a voluntary basis by all the people and organisations mentioned herein. (See a list of various people and organisations). Since the environment is crucial in this century, with a lot of emphasis in the media nationally and internationally, the outcome of the 1992 United Nations Conference on Environment and Development in Rio de Janeiro has made Tanzanians recognise the importance of conserving the environment and has led to the starting of a national Environment Day, which is being officiated in all regions, held in conjunction with the UN designated World Environment Day. With this view, the Malihai Environmental Council found it appropriate to write this booklet in order to educate their members and their neighbours.

Kibosho East (See Fig. III) is being faced with severe environmental destruction by tree felling for firewood and timber, and soil erosion on river sides caused by cultivation and habitation. As a consequence, rivers dwindle during the dry season to the extent of drying up completely.

Since the issue of conserving the environment concerns both young and old, this booklet will serve as a guide to protect and appreciate the environment. This will be the first booklet about the environment here in Kibosho. It will assist teachers and students of both primary and secondary schools to know the names of indigenous trees, animals, birds, and medicinal plants (herbs). It will educate them in ways to protect them. There is a proverb which says:

If your plans are for one year, grow paddy.
If your plans are for ten years, grow trees.
If your plans are for ten to fifty years, educate people.

There is no doubt that our plans here in Kibosho are for more than fifty years, so mass education is our goal, emphasising that environmental protection is everybody's duty, especially the youth, who will enjoy its fruits now and in the future.

We have enrolled our youth in Malihai Clubs of Tanzania, which has issued them booklets, journals, and film shows, and conducted various seminars for teachers in a bid to make them aware of the importance of conserving the environment and impart that knowledge so obtained to students. Through this way it spreads to the villagers, for the students go and teach their parents and show them how to conserve the environment. Our aim is to eliminate the bad custom of felling trees for firewood and timber, which has left places bare, and to forbid people from cultivating on riverbeds.

Overpopulation in this area is not so much of a problem. Instead, it is the adverse economic situation which has crept in since 1966 that has caused many families to live below standard. Coffee is the main cash crop for people in Kilimanjaro villages, Kibosho being one of them. The CBD (Coffee Berry Disease), which has attacked coffee trees since the 1960's, has been the main contributory factor to poverty in this area. People, finding no other way to gain income, have resorted to felling trees, and selling timber and firewood as a means of survival. Due to this setback, parents were no longer able to renovate and build schools or bridges, nor to repair roads. As a result development has been retarded in this area.

In order to curb the destruction of our natural forests, education for protecting the forests should be introduced, along with tree nurseries. Emphasis should be directed to those areas drastically affected by tree felling, starting with water sources, and trees should be planted to preserve water and moisture. Kibosho East is not known for burning the forest but for felling trees rampantly without replacing them. It is the strong belief of the authors of this booklet that everybody, including neighbours and all people surrounding this mountain, will emulate the example of Malihai Clubs in conserving our natural heritage.

This booklet does not only deal with the environment, it also touches on how to increase the income of those families who have low or no income at all. It teaches them good ways of producing better crops, the proper use of pesticides, and how to protect themselves from the hazardous effects of these chemicals. Science and technology mentioned in this booklet will focus on those areas where new farms are being started, and how livestock, irrigation, spraying, and fertilisers can easily ruin the environment.

We trust that our readers **will** support the authors in protecting and being friendly to the environment by educating other people, especially our youth, for future generations. Preserving the environment is everybody's duty, considering that the world is becoming smaller everyday. Therefore education, especially for our youth, should be our shield for the advantage of our future generations.

SEBASTIAN CHUWA — CHIEF PATRON

GRATITUDE

Our gratitude should go to all Kibosho East residents who have co-operated with us in environmental conservation. Our sincere thanks should go to Mr. Sebastian Chuwa, the brain behind the introduction of environmental conservation and protection in this Division, and the mastermind behind introducing this booklet and writing a brief preface. He is also the one who introduced the idea of Malihai Clubs in Kibosho East. His contribution is immeasurable and he is highly commended and held in high esteem by everybody in Kibosho East. Our special thanks should also go to our friends who made it possible to start Malihai Clubs in Kibosho East and made sure that they will exist forever by arranging for teachers to be taught about the environment and attend seminars. The knowledge attained has been passed on to students and fruits have started to be seen. These contributors are:

- Michale Oliver – U.K.,
- Sunday and Mark Hackworth – U.S.A.
- Joan M. Schulte – U.S.A.: These friends contributed sports gear, books, pens, etc.
- Elizabeth and Walt Schymik, Bob and Gail Fennimore, and their friends in the U.S.A.: These contributed a printer used in printing the manuscripts of this booklet. Elizabeth donated sweaters for the children and adults.
- Mr. Grant Wheeler – U.S.A.: He helped us to start indigenous tree nurseries.
- Our Rafiki/Friends Foundation (U.S.A.): They helped us in various ways like: numerous presents they sent us, incurring all the expenses of the teachers' seminar conducted in Arusha, renovating Sungu Primary School, donating tree nursery tools, sports equipment, and so many other things.
- Jill and Gary Strand Wildlife Explorer (EA) Ltd.: They put us through to their friends in Europe/U.S.A. through their tourist company in Tanzania and assisted us in every way when asked to do so.
- Charlie Bouey with his cousin: They contributed a laptop which assisted in typing the manuscript of this booklet.
- Malihai Clubs Management in Arusha: They accepted us as one of their members immediately after getting our reports and bulletins and organising seminar for the teachers. Without forgetting Peter Ottaru the Co-ordinator, Mr. Ehrlich Kazungu, Education Officer, and Godfrey Mwangi with all the staff.
- College of African Wildlife Management, Mweka: For providing transportation to take teachers/students to Lake Manyara and Ngorongoro Crater.
- Dr. Patricia Moehlman - Wildlife Conservation Society (WCS - USA): Contributed to financing the trip to the National Park.
- Regional and District Education Officers: For supporting the idea of starting environmental conservation in this area.
- Fr. Henry Mushi - Kibosho Parish Priest: For sensitising people to the environment and attending the 1996 Environment Celebrations.
- All various institutions which attended 1997 Environment Celebrations
- Rector of Kibosho Senior Seminary for his good advice on Environment Day activities.
- Mr. Simon Mbesere - Moshi District Commissioner: For his valuable contribution and participation in Environment Day, 1997.

The following contributed in one way or the other in encouraging conservation of the environment in this area:

- Mr. Bakari Sekievu - Divisional Education Co-ordinator
- Mr. Abas Mzira - Divisional Forester
- Mr. T.L. Shoki - Headmaster Nsoo Secondary
- All primary school teachers of this Division
- Mr. Dominic Minde - Division Secretary - Management of Malihai Clubs Kibosho East network
- Mr. Clement J. Mushi - Chairman
- Mr. Mrimi Charo - Vice Chairman
- Mr. James Stephen - Secretary
- Ms. Veneranda Stephen - Vice Secretary
- Ms. Lucy Njuu - Treasurer

We should also not forget our Patrons:

- Mr. James Stephen and Ms. Hyasinta Mangowi - Omi Primary School
 - Mr. Mathias Kiria and Assey - Mweka Primary School
 - Mrs. Elizabeth S. Chuwa and Victorini Mallya - Sungu Primary School
 - Ms. Lucy Njuu and George Samweli - Mapinduzi Primary School
 - Mr. Felician Amani and Ms. Edita Ambroce - Kibosho Primary School
 - Mr. Bazil Rawia and Fausta August - Msinga Primary School
 - Mr. Prosper Mrema and Rita Massawe - Singa Chini Primary School
 - Mr. M.P. Ndakidemi and E.M. Gomezulu - Nsoo Secondary School
- We thank all the teachers, students and Malihai Clubs members for their invaluable efforts in encouraging environmental conservation in their areas.
- Without forgetting the two brothers, Joachim Chuwa and Sebastian Chuwa, for typing and re-typing the several drafts of the manuscripts with meticulous care and mathematical neatness.
- We should also not forget Anna T. Mworia for her profound efforts in producing the final draft and her patience in doing the corrections.



1
Members of Mapinduzi Primary School playing basketball, using equipment donated by the Rafiki/Friends Foundation.



2
Here leaders of various schools are distributing presents among themselves that were donated by the Rafiki/Friends Foundation.