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Environmental Change in South Central Chibuto Southern Mozambique 1965-2000

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APPENDICES

Appendix 1: Questionnaire: Land-use change in South Central Chibuto, 1965-2000, and local livelihoods.

Province……..

District…….

Village…….

Location……..

Name of the head of the household……..

I DEMOGRAPHY

Q. 1. A Age and sexual structure of the enquired households

Category	<5 years	5-15 years	15-50 Years	>50 years
Men				
Women				
Total				

Q.1. B) Children of school age

Category	Lower primary	Upper primary	Secondary	Total
Boys				
Girls				
Total				

Q, 2. What kind of houses does the household have (roofs of zinc, walls of cement, reeds or adobe: floors of cement or earth)?

House	Roof	Walls	Floor
1			
2			
3			
3			

Q. 3. What type of lighting and heat source does the household use?

Q. 4. What kind of toilet does the household use?

Type	No
Flush	1
Latrine	2
Other	3

Q. 5. What kind of livestock does the household own?

Type	No	Quantity
Cattle	1	
Goats	2	
Pigs	3	
Other, specify….	4	

Q. 6 What kind of water source does the household use?

Type	No
Piped inside	1
Piped outside	2
Communal piped	3
Communal pump	4
Open Well	5
Rainwater tank	6
Other	7

Q. 7 How far from the house is the source of water?
Q.8 What kind of fuel (for cooking, heating) does the household use?

Type	No
Electric	1
Gas	2
Paraffin	3
Charcoal	4
Timber	5
Crop residue	6
Other	7

Q. 9 How far from the house is the source of fuel wood?

III LAND - USE AND COVER

Q.10 How did you get the land you cultivate?

Type	**No**
Inherited	1
Borrowed	2
Given by the Government	3
Bought	4
Other	5

Q.11 How big is the farm you cultivate? (compare with the residential space, 30*40m)……..
Serra farms……
Bila farms**…….**

Q.12. What kind of crops do you cultivate in the farms? (both close to settlement and some distance)……..

Q. 13 What kind of garden fruit trees does the household own (in the residence)?

Type	**No**
Cashew	1
Mafurra	2
Mango	3
Other, specify……...	4

Q.14 What kind of garden crops does the household own (in the residence)?

Type	**No.**
Cassava	1
Beans	2
Sweet potatoes	3
Other, specify…….	4

Q. 15 Who cultivates the land in the household?

Type	**No**
All members	1
Only female	2
Wage paid	3
Collective work	4

Q. 16 What kind of land-use prevailed when you settled this place for the first time?

Type	No.
Forest	1
Somebody else farm	2
Fallow land	3
Other	4

Q.17 How adequate are the harvests for subsistence?

Situation	No
Never	1
Adequate in rainy years	2
Always adequate	3

Q. 18 What have been the causes of shortage of food?

Cause	No
Floods	1
Droughts	2
Pests	3
Land shortages	4
Poor land	5
Shortage of seeds	6
Shortage of tools	7
Shortage of labour	8
Other	10

Q. 19 Besides income from agriculture does the household receive any remittance from outside?

Type	No
Wages locally earned	1
Labour migration	2
Pensions locally	3
Pensions from labour migration	4
Other	5

Q. 20 If you have farmed cattle before why are you not farming cattle now?

Causes	No
Shortage of pastures	1
robbed	2
I have sold it	3
Lack of labour	4
Other	5

Q.21 When did you start to experience shortage of fuel wood?

Period	No
Before Independence	1
After before war	2
During the war	3
After war	4

Q. 22. Compare living conditions now and before the construction of the villages.

Issue	Better now	About the same	Better before	I don't know
Leadership	1	1	1	1
Availability of land	2	2	2	2
Distance from water sources	3	3	3	3
Pastures	4	4	4	4
Health care	5	5	5	5
Schools	6	6	6	6
Commerce	7	7	7	7
Crime	8	8	8	8
Other	9	9	9	9

Q. 23. If you are a displaced by the war, why are you not returning home?

Reasons	No.
I fear land mines	1
School children	2
Employment	3
I am used to the place	4
Other, specify	5

III SOCIAL SERVICES

Q. 24 What kind of problems do the local hospital face?

Type	No
Lack of professionals (doctors, nurses, specialists, etc)	1
Lack of medicine	2
Distance from home	3
Other, specify…….	4

Q. 25 If you do have school children outline some of the problems you think local schools face?

Type	No
Bad teachers	1
Poor facilities	2
Fees are expensive	3
Other, Specify	4

Appendix 2. Questionnaire on the year 2000 catastrophic floods in the Chimundo resettlement camp

Q1 Location
Province……District…….
Town……
Quarter……

Q. 2 Name of the head of the household……..
1. Single……
2. Married…….
3. Divorced…….
4. Whidow……..

Q. 3 The size of the household
1. Male……
2. Female……
3. Total……..
Q. 4 Location, where were you affected by the floods?……..

Q. 5 Where were you rescued?
1. Inside your house…….
2. On top of tree……
3. Other place, where?.....

Q. 6 Houses impacts
1. Cement houses……
2 Reed walls and zinc roof houses……
3 Huts……

Q. 7 Livestock loss
1. Cattle
2. Goats
3. Sheeps
3. Pigs
4. Other, specify…….

Q.8 Agriculture

1. Affected farms (number of plots)……..
2. The size of the farms (Compare with the resettlement camp plot of 30.40m)……

Q. 9 Type of crops

1. Maize
2. Pumpkins
3. Sweet potatoes
4. Other crops, specify……

Q. 10 Other losses;

1. Car
2. Tractor
3. Motorcycle
4. Bicycle
5. Ploughs
6. Hoes
7. Spade
8. Table
9. Chairs
10. Beds

Q. 11 What other valuables you would like to mention……

Q.12. How long have lived in the area affected by the floods?……
Q.13. Where were you during the 1977 floods ?……
Q.14. Where were you during the war?……..
Q.15. If you have ever lived in a communal village why did you abandon it?…….
.

Q. 16 After the floods, what resource assets have you recovered?……

Q.17 Which kind of assistance have you or are you receiving?
Source:…….

1. Type of house……..
2. Cattle……..
3. Domestic utensils**…….**
4. Other……

Q.18 Who owns the land where you now are settled?……
Q.19 What, according to your knowledge, was on the plot before you settled it?…….

1. Forest
2. Fallow land
3. Fruit tree
4. Farm
5. Other, specify…….

Q. 20 What is your opinion about the life and general livelihood opportunities in the new place? …….

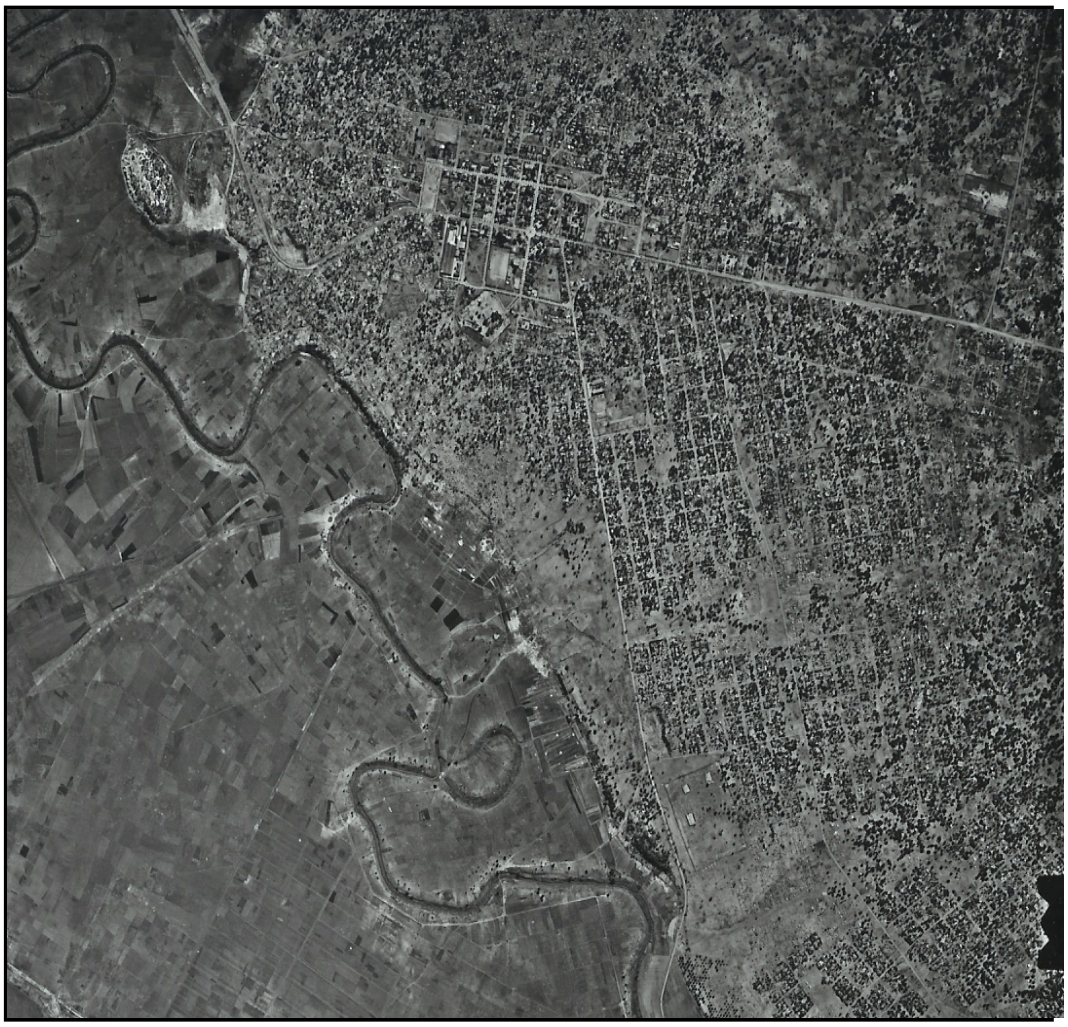
Q. 21 Which kind of problems do you face? (e.g. food, health care employment)……

Appendix 3 Evolution of land-use policy 1965-2000.

Periods	*Land tenure systems*
1965-1973	Land reserves created around villages, smallholder African peasant without formal propriety rights. Their lands could be leased by the state.
1977	FRELIMO 3rd Congress and Villagization Programme: Land nationalized, state farms and co-operatives are priorities
1979/85	1983 FRELIMO 4thcongress supports smallholders and private farms.
1987	IFM: The structural adjustment policy reduce state role, devaluates currency, ends price control The maximum duration of land lease extended from 15 to 50 years and automatic renewal of use granted.
1994/97-2000	New land policy and law was approved by the national assembly, land should be guaranteed to farmers both smallholders and private investors, including community based land management rights. Globalization of the economy through enclave projects.
1997-2000	Promotion of huge development projects “enclave industries”



Appendix 4.1 Colonial Chibuto Town, note the abrupt transition to rural areas.



Appendix 4.2 Chibuto Town and communal settlements the situation after 1977



Appendix 4.3: Land-use and land-cover changes: A- the old town, B- the communal settlements, C- the Chimundo resettlement camp and D- the future heavy sands exploration area.

Source: Landsat image of Chibuto area of 2002.