

RESEARCH FOR THE MANAGEMENT
OF THE FISHERIES ON LAKE
TANGANYIKA

GCP/RAF/271/FIN-TD/63 (En)

GCP/RAF/271/FIN-TD/63 (En)

May 1997

SOCIO-ECONOMIC DIMENSIONS OF LAKE TANGANYIKA
FISHERIES: PRELIMINARY TECHNICAL CONSULTATION &
PLANNING WORKSHOP

by

J. Eric Reynolds

FINNISH INTERNATIONAL DEVELOPMENT AGENCY

FOOD AND AGRICULTURAL ORGANIZATION
OF THE UNITED NATIONS

Bujumbura, May 1997

The conclusions and recommendations given in this and other reports in the Research for the Management of the Fisheries on the Lake Tanganyika Project series are those considered appropriate at the time of preparation. They may be modified in the light of further knowledge gained at subsequent stages of the Project. The designations employed and the presentation of material in this publication do not imply the expression of any opinion on the part of FAO or FINNIDA concerning the legal status of any country, territory, city or area, or concerning the determination of its frontiers or boundaries.

PREFACE

The Research for the Management of the Fisheries on Lake Tanganyika project (LTR) became fully operational in January 1992. It is executed by the Food and Agriculture Organization of the United Nations (FAO) and funded by the Finnish International Development Agency (FINNIDA) and the Arab Gulf Program for the United Nations Development Organization (AGFUND).

LTR's objective is the determination of the biological basis for fish production on Lake Tanganyika, in order to permit the formulation of a coherent lake-wide fisheries management policy for the four riparian States (Burundi, Tanzania, Democratic Republic of Congo, Zambia).

Particular attention is given to the reinforcement of the skills and physical facilities of the fisheries research units in all four beneficiary countries as well as to the build-up of effective coordination mechanisms to ensure full collaboration between the Governments concerned.

Prof. O.V. LINDQVIST
LTR Scientific Coordinator

Dr. George HANEK
LTR Coordinator

LAKE TANGANYIKA RESEARCH (LTR)
FAO
B.P. 1250
BUJUMBURA
BURUNDI

Telex: FOODAGRI BDI 5092

Tel: (257) 22.97.60

Fax: (257) 22.97.61

e-mail: bdi01%remote.Undp-bdi@nylan.Undp.Org

GCP/RAF/271/FIN PUBLICATIONS

Publications of the project are issued in two series:

- * a series of **technical documents (GCP/RAF/271/FIN-TD)** related to meetings, missions and research organized by the project;

- * a series of **manuals and field guides (GCP/RAF/271/FIN-FM)** related to training and field work activities conducted in the framework of the project.

For both series, reference is further made to the document number **(01)**, and the language in which the document is issued: English **(En)** and/or French **(Fr)**.

For bibliographic purposes this document should be cited as follows:

Reynolds, J. E., Socio-economic dimensions of Lake Tanganyika Fisheries: Preliminary technical consultation & planning workshop. FAO/FINNIDA Research for the Management of the Fisheries of Lake Tanganyika. **GCP/RAF/271/FIN-TD/63 (En): 28p.**

1. BACKGROUND

Acting in accordance with mission TORs, Reynolds undertook the above mission over the period 12 April - 15 May 1997. The itinerary is shown in Annex 1, which also provides a list of persons met/contacted in the course of the mission.

The LTR Socio-Economic Planning Workshop was convened at the TAFIRI station Kigoma on 22 April. A full list of workshop participants is attached herewith as Annex 2. Although the original timeframe was set for 10 days, it was decided in consultation with the LTR Coordinator to readjust the schedule to fit within an 8 day framework in order to accommodate those travelling back to Mpulungu, Zambia. (The lake steamer service between Kigoma and Mpulungu currently runs only one roundtrip per week, arriving in Kigoma on Sundays and departing Wednesdays.

The daily workshop programme is provided as Annex 3. A list of all documents assembled and distributed to workshop participants is given as Annex 4. DocRef LTR/SEC/Kgm/09 the last item on the list, offers a complete account of workshop proceedings. The brief summary of activities and outcomes presented in the following section is based on the draft document LTR/SEC/Kgm/09 which was reviewed and agreed upon by all workshop participants in their last full group working session on the morning of Wednesday, 30 April 1997.

2. WORKSHOP ACTIVITIES AND OUTCOMES

2A. Summary Observations

1) The preliminary technical consultation and planning workshop for LTR socio-economic Investigations of Lake Tanganyika fisheries commenced on 22 April 1997 at the TAFIRI station in Kigoma, Tanzania. Objectives and timeframe for this exercise are defined in the Terms of Reference and LTR background briefing notes provided in the file of workshop documents(DocRef LTR/SEC/Kgm/01).

2) A total of 19 participants were involved with the various workshop sessions (see DocRef LTR/SEC/Kgm/02), including 14 who took part on a full-time basis. Unfortunately, due to civil unrest prevailing in some parts of the Lake Tanganyika region, it was not possible for delegates from Zaïre and Burundi to travel to Kigoma to attend the workshop.

3) The Workshop Coordinator [Reynolds] emphasised from the outset that his role would be one of facilitator to promote group interaction and maximum participation and individual contributions rather than as to serve as a lecturer delivering 'one-way' messages. In view of the general lack of background in or experience with socio-economic studies related to fisheries management concerns amongst workshop members, the aim was to encourage rapid orientation and familiarisation through intensive group discussion and practical working sessions.

4) The workshop ran for eight consecutive days, and comprised a very full programme of activities (DocRef LTR/SEC/Kgm/O3).

5) Initial sessions included basic introductory discussion or socio-context perspectives and data collection methods, and the presentation of suggested background reading material (DocRefs LTR/SEC/Kgm/O4, LTR/SEC/Kgm/O5 - various). Briefings from guest speakers representing the Lake Tanganyika Biodiversity Project (LTBP) and the Tanganyika Catchment Reforestation and Education Project (TACARE) also took place. Both of these projects are concerned with socioeconomic and fisheries issues in and around the lake, and the LTBP group in particular has strong interest in conducting socio-economic investigations and appraisals of lakeshore communities in various localities and is hoping to collaborate as much as possible with ongoing LTR work.

6) Subsequent works" - sessions were devoted principally to developing participant familiarity with socio-economic perspectives and to identifying and deliberating on key management issues for the fisheries of Lake Tanganyika and. in this context, devising appropriate strategies and tools for the conduct of LTR field investigations.

7) Over the course of several days, the overall workshop group divided and re-divided itself into various ways task focus teams, through which a number of draft discussion papers, data collection forms, and survey procedure notes were produced. These latter include several papers on 'The context of management' (DocRef LTR/SEC/Kgm/O5.01), 'Review of previous studies' (DocRef LTR/SEC/Kgm/O5.03), 'Draft field survey forms: -working group on fishing units and operations' (DocRef LTR/SEC/Kgm/O6), 'Draft field survey forms: working group on fishing communities and post-harvest' (DocRef LTR/SEC/Kgm/O7), 'Draft notes on survey procedures: working group on sampling and operational planning' (DocRef LTR/SEC/Kgm/O8).

2B. Recommendations

On the basis of the preparatory activities and group discussion sessions outlined above, workshop participants have AGREED on the following recommendations for follow-up actions.

- I) An LTR SEC Survey Coordination Team should be designated to oversee final preparations for the fieldwork planned over the course of the next few months. The Coordination Team should be composed of the following individuals:

Dr. J.E. Reynolds (LTR Consultant -- Team Advisor)
Mr. D.B.R. Chitamwebwa (Ag. Dir., TAFIRI/Kigoma)
Ms. E. Lyimo (DOF/ Dar)
Mr. R. Chitembure (DOF/Chilanga)
Ms. P. Paffen (LTR/Mpulungu)

- 2) The immediate tasks of the Coordination Team should be to review and revise/finalise as necessary the draft survey forms and data collection protocols prepared during the course of the workshop. The Team should organise pre-tests of forms and protocols as required in the Kigoma area, and finalise enumerator instruction manuals and coding guidelines.
- 3) Dr. Reynolds should, as anticipated in the technical consultation TORs, stay on in Kigoma for approximately one more week (more or less) in order to oversee these tasks. Ms. P. Paffen should also stay on in Kigoma for this additional period in order to assist in the work and with a view towards returning to her station in Mpulungu to brief DOE Zambia personnel about final preparations and to organise the start of survey work there.
- 4) Field survey work should be scheduled to begin simultaneously in both the Zambian and Tanzanian sectors of the lake as soon as possible after the first of June 1997. As the survey of these sectors is expected to require a three to four week period to complete, and bearing in mind the current civil difficulties prevailing in some regions, plans for subsequent extension of the investigations into the Burundi and possibly the Zaire sectors of the lake should be made on a tentative basis. If the situation warrants, Ms. P. Paffen should be detailed to organise enumerator teams and other necessary preparations for the start of survey work in Burundi, and possibly along the Zaire shoreline, around the first of July 1997.
- 5) **Survey strategy:** It is desirable to execute the SE survey in the same way in the whole survey area i.e. in all four lacustrine states. The methods employed therefore should be applicable in all sectors. Survey site selection should be carried out on the basis of geographically stratified random sampling of the villages | landing sites enumerated during the LTR sponsored Frame Survey carried out in March 1995. Following practices in earlier socio-economic investigations conducted under the IFIP project, sample size should be in the range of 5% of the total fisher population, although the final size determination should rest with the Coordination Team after all logistical details and final survey questionnaire formats have been settled.
- 6) **Survey team set-up:** 1 team in Zambia, 2 teams in Tanzania, each team to consist of 3 enumerators and one supervisor.
- 7) **Survey team composition** (tentative suggestions, to be confirmed by Coordination Team).

Zambia: Members from DOF/Mpulungu & LTR

Tanzania: Members from DOF/Kigoma & Rukwa Regions, TAFIRI/Kigoma, & LTR.

8) **Transport** for enumeration teams.

Zambia: R/V *Silver Shoal* with 1 or 2 inflatables.

Tanzania: R/V *Explorer* with 2 inflatables for 2 teams to operate simultaneously. DoF team may be changed per Region.

9) **Survey follow-up:** The planned follow-up work of the technical consultation, as anticipated in the TORs, should involve the convocation of a data analysis and reporting workshop comprised of members of the Survey Coordination Team and others who have been closely involved with the conduct of field activities. The workshop should be scheduled to take place in August 1997, venue and participant details to be confirmed by Dr. Eric Reynolds and the Survey Coordination Team in consultation with Dr. G. Hanek, LTR Coordinator.

3. WORKSHOP FOLLOW-UP

3.A Sample selection and draft survey protocols

Following the official closure of the workshop at mid-day, 30 May 1997, planning/logistical consultations continued between Hanek, Reynolds, and the LTR APOs stationed at Kigoma (Bosma and Verburg) and Mpulungu (Paffen). It was agreed in principal that Paffen would serve as survey liaison officer with regard to projected work in Burundi and Zaïre. Timing and scope of work in these countries would depend on how the political situation develops over the next month or so, but Paffen should try to travel to Bujumbura as soon as possible to facilitate enumerator team training, sample landing site selection, questionnaire translation, etc., in conjunction with LTR Coordinator G. Hanek.

Following the return of Hanek to Bujumbura on 2 May, Paffen and Reynolds continued with the tasks of sample selection and streamlining of the draft questionnaire forms prepared by workshop participants. Sample landing sites were finalised by 7 May, when Paffen departed by lake steamer to return to her Mpulungu duty station. Reynolds continued with questionnaire revision and pilot interview runs until departing Kigoma on 12 May 1997. Several visits were made to a local landing site in the course of the pilot interview work, and involved local fisheries officers from Kigoma District and the Kigoma Town Council as well as TAFIRI staff and Bosma and Verburg, the two LTR officers based in Kigoma. Each pilot visit was preceded by a briefing session and followed by a review meeting to discuss results.

As now envisioned, the overall survey will be carried out using three main data collection forms, as follows:

- **Form 1:** Village/Landing site inventory. (Availability of basic services/amenities; population estimates, housing conditions, etc.)

- **Form 2:** Fisher interview questionnaire (Fishery unit affiliation; basic biodata; attitudes and opinions related to development/management issues -- perceptions of state of fisheries, possible regulatory mechanisms, etc.).
- **Form 3:** Trader/processor interview questionnaire (Type of enterprise, basic biodata; attitudes and opinions related to post-harvest sector issues).

3B. Collection of fishing unit cost/earning data

In the interests of brevity the fisher interview questionnaire as now drafted does not provide for collection of detailed cost/earning data on different fishing units. Such data can easily be collected however through structured interviews at selected sites within each of the geographical strata defined in the sampling strategy. Key informants or a set of key informants at each representative stratum site can be asked to provide basic information on gear and equipment investment costs and sources of supply, maintenance and operational expenses, crew remuneration arrangements, fishing trip frequency, etc. If this is done in a consistent manner throughout the various geographical strata, a fairly reliable picture of the cost/earning performance situation can be obtained without recourse to time-consuming individual interviews of everyone in the sample population. Efforts accordingly will be made to distribute a simple structured interview protocol to team supervisors before the commencement of field work.

3C. Marketing studies

Compared with what has been documented for the harvest sector, information on post-harvest aspects of Lake Tanganyika fisheries is very weak and inconsistent. It is thus strongly recommended that a set of national sector case studies on fish distribution and marketing in and around the lacustrine regions be organised in the context of the LTR SEC investigations now being planned. National consultants (working under Author Contract arrangements, for example) could be assigned the task of completing these respective studies according to TORs prepared by Reynolds. Basically the TORs would call for a review of the present situation with regard to processing and product array, characteristics of long-distance and short-distance trade and traders, estimates of volumes and values of product involved, indicative marketing costs and profit margins, consumer preferences, and the principal constraints on and/or potentialities for more effective distribution/utilisation of Lake Tanganyika fish products.

3D. Survey form pre-tests

Whilst pilot data collection runs with draft forms have been conducted around Kigoma, it is essential to conduct at least some pre-test exercises within the Zambian sector of the lake before all forms are finalised. Reynolds will therefore transmit draft forms to Paffen at the Mpulungu LTR S/Station via fax and/or e-mail as soon as they have been fully updated on the basis of the pilot interview runs in Tanzania.

Reynolds will also remain in close e-mail and/or fax contact with both the LTR sub-stations and with Hanek at LTR HQ in Bujumbura in order to help with final preparation details for the survey and to keep abreast of progress in the field. The LTR team should continue to aim for survey work to commence as soon as practicable in the Tanzanian and Zambian sectors.

3E. Action 'Hot List'

As things now stand, it should be possible to launch fieldwork in both sectors as early as mid-June, depending on timely completion of the following tasks pending:

1) Survey form finalisation based on the Zambian pre-tests, and including a) 'Enumerator/Supervisor Guidelines' detailing procedures on point-by-point, question-by-question basis, with translations as appropriate; and b) answer coding procedures for use in preliminary data compilation and review of survey forms as they are completed in the field. [**Action:** Reynolds, Paffen, with assistance from Langenburg, Mwape, Chitembure; Tanzanian Kiswahili translations: Kitonda & Chitamwebwa as already agreed].

2) Decisions on survey team composition for both the Zambian and Tanzanian sectors, bearing in mind for Tanzania that Bosma and Verburg may be able to split team supervision/backstopping duties on a north-of-Kigoma section (Bosma) / south-of-Kigoma section basis, and that the TAFIRI participants (Kitonda, Kissaka, Kalangala and possibly Kisisiwe; Chitamwebwa depending on other duties as Ag. Director TAFIRI/Kigoma) should certainly be joined by Messrs. Venance Emanuel (Kigoma Council Asst. Fisheries Officer) and Mr. L.B. Nonde (Kigoma District Fisheries Officer). The latter two as fisheries officers have intimate knowledge of local landing sites and will also serve to put the survey team into contact with fisheries scouts at more remote villages. Both have participated in the pilot interview exercises. [**Action:** Reynolds, Bosma/Verburg (Kigoma), Paffen/Langenburg (Mpulungu)]

3) Preparation, as part of the set of SEC data collection fieldwork instruments, of a simple protocol for structured interviews to be conducted with a few selected veteran fishers (key informants) in each geographical stratum of the lakeshore. The protocols will be designed to elicit basic cost/earning performance information on principal fishing unit types (e.g. catamaran/lift net, canoe/gillnet) found around the lake. [**Action:** Reynolds]

4) Planning and organisation of marketing case studies (including specific TORs), if feasible, and selection of national consultants to carry them out [**Action:** Reynolds in consultation with Hanek].

5) Confirm if cost-sharing arrangements can be worked out with Lake Tanganyika Biodiversity Project team, which will require further contact with Julian Quan of Natural Resources Institute who is heading up LTBP's socio-economics activities [**Action:**

Reynolds as follow-up to Reynolds/Menz meeting of 12.05.97 in Dar, and in consultation with Hanek]

6) Set definite survey launch date for respective sectors and complete day-to-day survey itinerary based on villages/landing sites already selected [**Action:** Reynolds in coordination with Hanek, LTR S/Stations].

7) Go Zambia and Tanzania. [**Action:** Field teams]

8) For **Burundi and Zaïre**, planning and organisation of survey work presumably to take place during July 1997 along Burundi and Zaïre coastlines (geographical scope/limitations; access; sample draw; enumerator recruitment, and enumerator team training and supervision). [**Action:** Paffen in consultation with Hanek and Reynolds; understood that initial contacts already been made].

9) Go Burundi and Zaïre. [**Action:** Paffen in consultation with Hanek; Field teams]

10) **Analysis and reporting.** As part of second mission phase, planning and organisation of survey data analysis and reporting workshop. The workshop should involve all principal survey participants. Based on Kigoma discussions with Hanek, it is now tentatively scheduled for August in Bujumbura. [**Action:** Reynolds in consultation with Hanek].

ANNEX 1.

ITINERARY & PERSONS MET

1. ITINERARY

Dates	Activities
12 - 13 April	Travel Portland, Oregon (USA) to Rome via London.
14 April	Arrival Rome. Preliminary consultations with Field Operations (Mann), FIPP (Wijkstrom, Gréboval), and TCOX/P personnel.
15 April	Discussions with FIPP technical personnel, review of available documents/previous reports pertaining to L. Tanganyika socio-economic issues. Brief meetings with FIIT officers with interests/background in L. Tanganyika GCP/RAF/271/FIN.
16 April	Final discussions with FIPP personnel, ticket confirmation, visit to Medical Unit, and final briefing with Field Operations (Mann). Travel Rome - Dar via Zurich.
17 April	Arrival Dar. Visit FAOR office, meeting with J. Yonazi, National Programme Office/OIC. Visit Dr. Andy Menz, Project Coordinator, Lake Tanganyika Biodiversity Project. Confirmation air ticket Dar-Kigoma.
18 April	Travel Dar-Kigoma, via Tabora. Arrive Kigoma mid-A.M. Meet Els Bosma (OIC, LTR Kigoma S/Station) and Piet Verburg, APOs for Lake Tanganyika Research (GCP/RAF/271/FIN). Preliminary discussion of workshop preparations, facilities available, etc.
19-21 April	Workshop preparations. Arrival (20.04.97) of APOs Petra Paffen and Victor Langenburg from LTR S/Station Mpulungu (Zambia) by lake steamer, in company with Zambian national workshop delegates Chitembure and Mwape. Arrival (21.04.97) of Tanzanian Dept. of Fisheries delegate (Lyimo) from Dar.
22-30 April	Workshop sessions.
30 April	Arrival of LTR Coordinator, Dr. George Hanek, from Bujumbura.
30 April - 2 May	Consultations with Hanek, LTR APOs re workshop proceedings finalisation, lakewide socio-economic survey plans (scope, logistics, etc.).
30 April	Departure of Langenburg and Zambian national delegates for Mpulungu on lake steamer.
2 May	AM: Departure of Tanzanian DOF delegate Lyimo for Dar. PM: Hanek departs Kigoma for Bujumbura.
3-7 May	Continue work of survey protocols, sampling procedures, etc., with P. Paffen, TAFIRI staff.
7 May	Departure of Paffen for Mpulungu on lake steamer.
8 -11 May	Continue work on survey protocols. Conduct pilot interviews using draft questionnaires at local landing site with TAFIRI participants and

	Bosma, Verburg.
12 May	Travel Kigoma - Dar. Visit FAO office, meeting with J. Yonazi. Meeting with A. Menz (Lake Tanganyika Biodiversity Project). Evening: Travel Dar - London.
13 May	Arrive London. Transfer flight London - Rome early afternoon.
14-15 May	Debriefing with Field Operations, FIPP HQ staff.

2. PERSONS MET

Name (FAO/Rome)	Designation	Agency/Station
1) Mr. M. Mann	P00 (GCP/RAF/27 1/FIN)	Field Operations
2) Mr. Ulf Wijkstrom	Chief	FIPP
3) Dr. D. Gréboval	Fishery Planning Analyst	FIPP
4) Dr. Alain Bonzon	Fishery Planning Officer	FIPP
5) Mr. George Everett	Sn. Fishery Planning Officer	FIPP
6) Ms. Jean Collins	Librarian	FIDI
7) Mr. Jan Johnson	Fishery Industry Officer (Small Scale Fisheries)	FIIT
8) Mr. Andrew Smith	Fishery Industry Officer (Gear)	FIIT
9) Mr. Jeremy Turner	Sn. Fishery Industry Officer (Vessels)	FIIT
10) Mr. Rino Coppola	Fishery Resource Officer	FIRM
11) Ms. Pamela Cross	Personnel Officer	TCOX/P
(Dar es Salaam)		
12) Mr. Jim Yonazi	National Programme Officer, OIC	FAO - Dar
13) Ms. Jean Backhouse	Administrative Assistant	FAO - Dar
14) Dr. Andy Menz	Coordinator	Lake Tanganyika Biodiversity Project/ Dar
(Kigoma)		
15) Ms. Els Bosma*	APO - LTR(OIC)/Kigoma Sub- Station. (Workshop Co- Administrator)	GCP/RAF/271/FIN
16) Mr. Piet Verburg*	APO - LTR/Kigoma Sub-Station	GCP/RAF/271/FIN
17) Ms. Petra Paffen*	APO - LTR/Mpulungu Sub-Station	GCP/RAF/271/FIN
18) Mr. Victor Langenburg*	APO - LTR (OIC)/Mpulungu Sub- Station.	GCP/RAF/271/FIN
19) Dr. George Hanek**	Project Coordinator (Bujumbura HQ)	GCP/RAF/271/FIN
20) Mr. Leonard Mwape*	OIC - DOF Mpulungu Stn	DOF - Mpulungu, Zambia
21) Mr. Rutendo Chitembure*	Fisheries Statistician (OIC), Zambia Statistics Section	DOF HQ - Chilanga,
22) Mr. Lawrence Makasa	Technician (Workshop observer first days)	DOF - Mpulungu
23) Ms. Eronica Lyimo *	Head, DOF Statistics Unit	DOF - Dar es Salaam, Tanzania
24) Mr. Venance Emanuel	Asst. Fisheries Officer	Kigoma Town Council
25) Mr. L.B. Nonde	Kigoma District Fisheries Officer	Dept. of Fisheries, Tanzania
26) Dr. Keith Banister**	Scientific Liaison Officer,	Lake Tanganyika Biodiversity Project/ Kigoma
27) Mr. Paul Vare**	Environmental Education Advisor,	Lake Tanganyika Biodiversity Project

Name	Designation	Agency/Station
28) Mr. George Strunden**	Coordinator	Lake Tanganyika Catchment Reforestation & Education (TACARE) Kigoma
(TAFIRI/Kigoma)		
29) Mr. D.B.R. Chitamwebwa*	Ag. Director. (Workshop Co-Administrator)	TAFIRI/Kigoma
30) Mr. K.I. Katonda*	Sn. Research Officer	TAFIRI/Kigoma
31) Mr. M.B.K. Kajelelo*	Personnel Administrative Officer	TAFIRI/Kigoma
32) Mr. U. Kisisiwe*	Technician I	TAFIRI/Kigoma
33) Mr. A.N.M. Kalangali*	Researcher	TAFIRI/Kigoma
34) Mr. M.B.S. Kissaka*	Researcher	TAFIRI/Kigoma


* Workshop participant.

** Workshop Guest Speaker.

ANNEX 2

SOCIO-ECONOMIC DIMENSIONS OF LAKE TANGANYIKA FISHERIES:
PRELIMINARY TECHNICAL CONSULTATION & PLANNING WORKSHOP
Tanzania Fisheries Research Institute (TAFIRI)
Kigoma, Tanzania, 22 - 30 April -1997

WORKSHOP PARTICIPANTS

	GCP/RAF/271/FIN RESEARCH FOR THE MANAGEMENT OF THE FISHERIES OF LAKE TANGANYIKA	
	<p style="text-align: center;"> SOCIO-ECONOMIC DIMENSIONS OF LAKE TANGANYIKA FISHERIES: PRELIMINARY TECHNICAL CONSULTATION & PLANNING WORKSHOP Tanzania Fisheries Research Institute (TAFIRI), Kigoma, Tanzania, 22 - 30 April 1997 </p>	
DocRef: LTR/SEC/Kgm/02	LIST OF WORKSHOP PARTICIPANTS	Date: 22 April 1997

NAME	DESIGNATION/STATION	ADDRESS	SPECIALISATION/REMARKS
<u>Kigoma/Tanzania</u>			
1) Mr. D.B.R. Chitamwebwa	Ag. Director - TAFIRI/Kigoma	TAFIRI P.O. Box 90 Kigoma, TANZANIA	Limnology; Workshop Co-Administrator
2) Ms. Els Bosma	APO & OIC - LTR S/Stn - Kigoma	c/o TAFIRI P.O. Box 90 Kigoma, TANZANIA Tel./Fax (+255) (695) 3625 email: ltr.urt@twiga.com	Fisheries Biology/Zooplankton; OIC LTR S/Stn, Kigoma; Workshop Co-Administrator
3) Mr. K.I. Katonda	Sn. Research Officer TAFIRI/Kigoma	TAFIRI P.O. Box 90 Kigoma, TANZANIA	Fisheries Biology

NAME	DESIGNATION/STATION	ADDRESS	SPECIALISATION/REMARKS
4) Mr. M.B.K. Kajelelo	Personnel Administrative Officer TAFIRI/Kigoma	TAFIRI P.O. Box 90 Kigoma, TANZANIA	Station Admin. Officer; w/ interest in workshop issues
5) Mr. U. Kisiwe	Technician I TAFIRI/Kigoma	TAFIRI P.O. Box 90 Kigoma, TANZANIA	Diploma in Fisheries
6) Ms. Eronica Lyimo	Head, DOF Statistics Unit DOF/Dar es Salaam	Fisheries Division P.O. Box 2462 Dar es Salaam, TANZANIA Tel. (+255) (51) 22930	Fisheries Statistics and Information Systems
7) Mr. Piet Verburg	APO - LTR/Kigoma	c/o TAFIRI P.O. Box 90 Kigoma, TANZANIA Tel./Fax (+255) (695) 3625 email: ltr.urt@twiga.com	Fisheries Biology/Hydrodynamics
8) Mr. A.N.M. Kalangali	Researcher TAFIRI/Kigoma	TAFIRI P.O. Box 90 Kigoma, TANZANIA	Fisheries Biology/Zooplankton. To attend as observer.
9) Mr. M.B.S. Kissaka	Researcher TAFIRI/Kigoma	TAFIRI P.O. Box 90 Kigoma, TANZANIA	Fisheries Biology/Aquaculture. To attend as observer. Participation in LTBP Socioeconomic component activities.
Mpulungu/Zambia			
10) Mr. Leonard Mwape	OIC - DOF Mpulungu Stn	Lake Tanganyika Research Unit P.O. Box 55 Mpulungu, ZAMBIA Tel./Fax (+260) (04) 455188	Limnology; w/ interest in Fisheries Statistics
11) Mr. Rutendo Chitembure	Fisheries Statistician (OIC), Statistics Section, DOF /Chilanga	P.O. Box 350100 Chilanga, Zambia Tel./Fax (+260) (01) 278457	Fisheries Statistics and Information Systems


NAME	DESIGNATION/STATION	ADDRESS	SPECIALISATION/REMARKS
12) Mr. Lawrence Makasa	Technician - DOF Mpulungu Stn	Lake Tanganyika Research Unit P.O. Box 55 Mpulungu, ZAMBIA Tel./Fax (+260) (04) 455188	Hydrodynamics. To attend as observer first two days.
13) Mr. Victor Langenberg	APO & OIC - LTR S/Stn - Mpulungu	c/o Lake Tanganyika Research Unit P.O. Box 55 Mpulungu, ZAMBIA Tel./Fax (+260) (04) 455154 email: faovipul@zamnet.zm	Fisheries Biology/Limnology
14) Ms. Petra Paffen	APO - LTR/Mpulungu	c/o Lake Tanganyika Research Unit P.O. Box 55 Mpulungu, ZAMBIA Tel./Fax (+260) (04) 455154 email: faovipul@zamnet.zm	Fisheries Biology/Statistics
LTR/FAO			
15) Dr. George Hanek	LTR Programme Coordinator Bujumbura	c/o Lake Tanganyika Research P.O.Box 1250 Bujumbura, BURUNDI Tel: (+257) 229760 Fax: (+257) 229761 email: BDI01%REMOTE.UNDP-BDI@nylan1.undp.org	To attend towards end of workshop sessions and assist with planning/logistics for field activities, depending on travel situation Bujumbura - Kigoma.
16) Dr. J. Eric Reynolds	LTR Consultant, Socio-Economics c/o Fisheries Policy & Planning Division (FIPP), FAO, Rome	email: jeric@sprynet.com	Workshop Coordinator

LTBP			
17) Mr. Kieth Banister	Scientific Liaison Officer, Lake Tanganyika Biodiversity Project/ Kigoma		Guest speaker. Overview of LTBP
18) Mr. Paul Vare	Environmental Education Advisor, Lake Tanganyika Biodiversity Project		Guest speaker. Overview of LTBP Environmental Education & Socio-economics component work; possible areas for LTBP - LTR collaboration.
TACARE			
19) Mr. George Strunden	Coordinator, Lake Tanganyika Catchment Reforestation & Education Project/ Kigoma		Guest speaker. Overview of TACARE & observations on forestry/fishery issues within lakeshore communities.

ANNEX 3.

SOCIO-ECONOMIC DIMENSIONS OF LAKE TANGANYIKA FISHERIES:
PRELIMINARY TECHNICAL CONSULTATION & PLANNING WORKSHOP
Tanzania Fisheries Research Institute (TAFIRI)
Kigoma, Tanzania, 22 - 30 April -1997

WORKSHOP PROGRAMME

	GCP/RAF/271/FIN RESEARCH FOR THE MANAGEMENT OF THE FISHERIES OF LAKE TANGANYIKA SOCIO-ECONOMIC DIMENSIONS OF LAKE TANGANYIKA FISHERIES: PRELIMINARY TECHNICAL CONSULTATION & PLANNING WORKSHOP Tanzania Fisheries Research Institute (TAFIRI), Kigoma, Tanzania, 22 - 30 April 1997	
	DocRef: LTR/SEC/Kgm/03 (dft)	TENTATIVE WORKSHOP PROGRAMME

DATE/TIME	ACTIVITY	REMARKS
Tuesday -- 22.04.97		
10.00h	Welcome and introductions -- Mr. Chitamwebwa (Director, TAFIRI/Kigoma), Ms. Els Bosma (OIC - LTR S/Stn - Kigoma) & Mr. Eric Reynolds (Workshop Coordinator)	Introduction of workshop organisers and participants. Distribution draft workshop documents,
10.15	Tea/coffee break. Individual introductions.	
10.45	Introduction to workshop objectives and programme. -- Eric Reynolds	Technical consultation TORs. Scope of work. Note relevant studies & reference documents from previous & ongoing project work (IFIP, LTR). Working group assignments (for Wednesday presentations).
11.15	Individual work groups -- preliminary sessions	
12.30	Lunch break	
14.00 -16.00	Group work sessions (preparations for Wednesday afternoon presentations)	
16.00	Break for day.	

DATE/TIME	ACTIVITY	REMARKS
Wednesday -- 23.04.97		
09.00h	Opening announcements and confirmation of day's programme -- <i>Eric Reynolds</i>	
09.15 - 10.00	Briefing on Lake Tanganyika Biodiversity Project. -- <i>Keith Banister, Paul Vare, & Laisha Said. (LTBP/Kigoma)</i>	Guest speakers. Overview of LTBP; Socio-economics & Environmental Education component activities. Possible areas for LTR - LTBP collaboration in socio-economic investigations.
10.00 - 10.30	Tea/coffee break	
10.30 - 11.15	Briefing on TACARE project. -- <i>George Strunden (TACARE/Kigoma)</i>	Overview of TACARE & observations on socio-economic features of lakeshore communities, fisheries/forestry issues.
11.15 - 12.30	Group work sessions (continue preparations for afternoon presentations)	
12.30	Lunch break	
14.00	Context of Management (1). Fisheries of Lake Tanganyika, the Zambia experience. -- <i>L. Mwape, V. Langenberg, & L. Makasa</i>	Brief overview of major characteristics, management prospects & problems within the Zambian sector.
14.30	Context of Management (2). Fisheries of Lake Tanganyika, the Tanzanian experience. -- <i>D.B.R. Chitamwebwa, K.I. Katonda, P. Verburg & team</i>	Brief overview of major characteristics, management prospects & problems within the Tanzanian sector.
15.00	Context of Management (3): Lake Tanganyika fisheries monitoring and reporting practices in Zambia and Tanzania. -- <i>R. Chitembure, E. Lyimo, & P. Paffen</i>	Strengths and weaknesses of existing statistical and information systems within national DoFs. Topical coverage (catch, effort, socio-economic info., data quality, availability, etc.)
15.30	Group discussion: Flagging key fisheries management issues within and between the two national sectors.	Preliminary inventory of major management issues. Outline summaries of presentations & discussion notes for workshop proceedings.
16.00	Break for day.	

DATE/TIME	ACTIVITY	REMARKS
Thursday -- 24.04.97		
09.00h	Opening announcements and confirmation of day's programme. Group briefing for inventory of previous socio-economic studies of Lake Tanganyka fisheries/fishing communities. -- <i>Eric Reynolds</i>	Suggested background reading: Extracts from FAO Technical Guidelines for Responsible Fisheries (LTR/SEC/Kgm/04). esp. pp. 14-15, 30 - 39 (Sections 2.2 & 2.3), & pp. 73 - 75 (Table 1).
09.15 - 10.00	Group work sessions (preparations for afternoon presentations/discussion). NOTE: Review of studies should consider, for example: <ul style="list-style-type: none"> • Geographical range covered. • Topical coverage (subjects investigated, items enumerated). • Types of questions asked (pre-coded/quantitative; open-ended qualitative); questionnaire formats; use of other data/information collection methods, supplementary sources. • Survey methods, operations -- sampling strategy, sample size & justifications; interview & site visit duration, field operation plans, enumerators/field staff, logistics, etc. • Community relations issues (official clearance procedures, initial community contact, explanation of work to respondent communities, confidentiality, etc. 	Group 1: Review of recent IFIP socio-economic studies, Tanzanian & Zambian sectors. Group 2: Review of recent IFIP socio-economic studies, Zaire & Burundi sectors. Group 3: Review of recent LTBP Participatory Rural Appraisal studies, Tanzanian & Zambian sectors. <i>Other suggestions?</i>
10.00	Tea/coffee break	
10.30 - 12.30	Group work sessions (continue preparations for afternoon presentations/discussion).	
12.30	Lunch break	
14.00 (Subject revision)	Review of IFIP studies (Tanzanian & Zambian sectors). -- <i>D.B.R. Chitamwebwa, K.I. Katonda, R. Chitembure, P. Verburg & team</i>	Outline summaries of presentations & discussion notes for workshop proceedings file.
14.30 (Subject revision)	Review of IFIP studies (Zaire & Burundi sectors). -- <i>P. Paffen, V. Langenberg & team</i>	Outline summaries of presentations & discussion notes for workshop proceedings file.
15.00 (Subject revision)	Review of LTBP studies (Tanzania & Zambia). -- <i>L. Mwape, E. Lyimo, M.B.S. Kissaka & team</i>	Outline summaries of presentations & discussion notes for workshop proceedings file.
15.30 (Subject revision)	Group discussion. Summary of geographical and topical coverage in previous socio-economic investigations; areas of sufficient & insufficient previous coverage. Identify priority topics for current LTR management-related socio-economic field investigations.	Identification of main socio-economic issues with direct bearing on fisheries management concerns for which additional or new investigations should be carried out. Prioritise. Discussion notes.

DATE/TIME	ACTIVITY	REMARKS
16.00	Break for day.	
Friday -- 25.04.97		
09.00h	Opening announcements and confirmation of day's programme. Group briefing (reminders) on survey timeframe, schedule for data compilation, analysis, & write-up work. -- <i>Eric Reynolds</i>	Inherent limitations on depth of detail and geographical coverage to be achieved in field investigations. Preliminary thoughts on survey interview instruments (form length, possible use of different forms for various types of data collection needs), sampling strategy, sample size, & co.
09.15 - 10.00	Group discussion: Review and finalise priority topics for investigation and discuss options for data collection instruments (survey questionnaire form or set of forms; village level data sheets; structured interview protocols for specific lines of inquiry, etc.)	Divide into working groups for drafting preliminary questionnaire forms, other data collection instruments/ protocols, & preliminary sampling & field operations plans.
10.00	Tea/coffee break	
10.30 - 12.30	Group drafting sessions.	
12.30	Lunch break	
14.00 - 14.30	Group discussion: progress review.	Group interim reports.
14.30 (subject revision)	Group drafting sessions.	To continue as needed.
15.30	Group discussion: progress review and planning of follow-on tasks.	
16.00	Break for day.	

DATE/TIME	ACTIVITY	REMARKS
Saturday -- 26.04.97 (Subject to Revision)		
10.00h	Opening announcements and confirmation of day's programme. -- <i>Eric Reynolds</i>	Schedule to be confirmed/updated. Workshop administration: continue with document updates, etc.
10.15 - 12.30	Working group drafting sessions (continued).	Working groups should begin formatting data collection protocols/sampling & operational plans on computer when ready. Depending upon progress of work within their own groups, participants should circulate between groups as appropriate in order to assist.
12.30	Lunch break	
14.00 - 16.00	Working group drafting sessions (continued).	Data collection protocols/ sampling & operational plans may be formatted on computer when ready.
16.00	Break for day.	

DATE/TIME	ACTIVITY	REMARKS
Sunday -- 27.04.97 (Subject to Revision)		
10.00h	<p>Opening announcements and confirmation of day's programme. -- <i>Eric Reynolds</i></p> <p>NOTES:</p> <ul style="list-style-type: none"> • Group presentation draft notes to be reviewed for final corrections/additions before adoption in workshop proceedings file (<i>Action, please: group contact persons</i>). • Suggested further background preparations: cross-check questions/points now being proposed by working groups for investigation during LTR fieldwork against inventory of priority topics already identified. • Refer to (a) workshop presentations on 'Context of Management' and 'Previous studies', (b) 'Thought Chart', and (c) extracts from Annex 4 ('Fisheries socio-economics') of the LTBP 1996 report (copies distributed). 	Schedule to be confirmed/updated. Workshop administration: continue with document updates, etc.
10.15 - 12.30	Continue finalising data collection protocols/ sampling & operational plans.	To anticipate: consideration of arrangements for questionnaire trials (pre-tests); designation of a survey implementation team for post-workshop follow-up (finalisation of survey instruments, sampling questions, operational details, etc.)
12.30	Lunch break	To anticipate: as above.
14.00	Continue finalising data collection protocols / sampling & operational plans.	To anticipate: as above.
15.30 - 1600	Group discussion: progress review & scheduling for Monday.	To anticipate: as above.
16.00	Break for day.	To anticipate: as above. + REMEMBER BACKGROUND PREPARATIONS!

DATE/TIME	ACTIVITY	REMARKS
Monday -- 28.04.97 (Subject to Revision)		
09.00h	Opening announcements and confirmation of day's programme. -- <i>Eric Reynolds</i>	Schedule to be confirmed/updated. Workshop administration: continue with document updates, etc.
09.15 - 10.00	Working group sessions to complete first draft data collection protocols/ sampling & operational plans as needed.	Otherwise, participants invited to complete further background preparations as suggested in Sunday programme notes.
10.00	Tea/coffee break	
10.30 - 12.30	General discussion/stocktaking: review of proposed data collection methods and protocols against inventory of priority topics for LTR socio-economic investigations. Begin working group follow-up.	To anticipate: consideration of arrangements for questionnaire trials (pre-tests); designation of a survey implementation team for post-workshop follow-up (finalisation of survey instruments, sampling questions, operational details, etc.)
12.30	Lunch break	To anticipate: as above.
14.00 - 15.30	Working group follow-up of previous session: continue development of village service/amenities inventory, guidelines for structured interviews & case studies, as necessary. Print out working drafts for general group review.	To anticipate: as above.
15.30 - 1600	Group discussion: progress review & scheduling for Tuesday.	To anticipate: as above.
16.00	Break for day.	To anticipate: as above.

DATE/TIME	ACTIVITY	REMARKS
Tuesday -- 29..04.97 (Subject to Revision)		
09.00h	Opening announcements and confirmation of day's programme. Arrangements for Workshop Secretariat to prepare outline proceedings, Workshop recommendations, etc., for Wednesday AM closing session. -- <i>Eric Reynolds</i>	Schedule to be confirmed/updated. Workshop administration: continue with document updates, etc.
09.15 - 10.00	General group discussion. Final review of checklist priority topics/areas for LTR socio-economic investigations.	
10.00	Tea/coffee break	
10.30 - 12.30	Final working group sessions to complete draft data collection protocols/ sampling & operational plans as needed. <ul style="list-style-type: none"> • Fishing enterprise (harvest sector) group: Questionnaire forms, & structured interview schedules as required. • Community (post-harvest/ village features) group: Questionnaire forms, community facilities/services fact sheet & structured interview schedules as required. • Sampling and operational planning group: Outline of sampling strategy for survey fieldwork covering Zambia & Tanzania shoreline, and tentative schedule of operations and personnel assignments. 	Working group assignments as before.
12.30	Lunch break	
14.00 -16.00	Morning working group sessions continue as required. Final working drafts for submission to Workshop Secretariat.	
15.00	Workshop Secretariat meeting, preparations for Wednesday AM final closing session.	
16.00	Break for day.	Workshop Secretariat preparations continue as required.

DATE/TIME	ACTIVITY	REMARKS
Wednesday – 30.04.97 (Subject to Revision)		
08.00 - 10.30	Secretariat preparations, document assembly, & Co.	Contact DOF office Kigoma (Lyimo)
10.00 - 10.30	Tea/coffee in conference room.	
11.00	Final workshop group discussions, review of workshop summary notes & recommendations for follow-up, designation of LTR SEC Survey Coordination Group.	
12.00	Closing session. Last announcements, closing remarks. -- <i>Mr. Chitamwebwa (Director, TAFIRI/Kigoma), Ms. Els Bosma (OIC - LTR S/Stn - Kigoma) Dr. Eric Reynolds (Workshop Coordinator), Dr. George Hanek (LTR Coordinator)</i>	
12.30	GROUP PHOTOS. → Farewell lunch.	Arrangements to be announced.
14.00 - 15.00	Further logistical planning with LTR Coordinator, Zambia delegates.	
15.00	Zambian participants return via steamer to Mpulungu (steamers depart from Kigoma every Wednesday only). Survey coordination team continues with preparation work at TAFIRI.	

ANNEX 4.

**SOCIO-ECONOMIC DIMENSIONS OF LAKE TANGANYIKA FISHERIES:
PRELIMINARY TECHNICAL CONSULTATION & PLANNING WORKSHOP
Tanzania Fisheries Research Institute (TAFIRI)
Kigoma, Tanzania, 22 - 30 April -1997**

LIST OF WORKSHOP DOCUMENTS

DocRef:

LTR/SEC/Kgm/01	Technical consultation & workshop terms of reference
LTR/SEC/Kgm/02	List of workshop participants
LTR/SEC/Kgm/03	Tentative workshop programme Extracts from FAO technical guidelines for responsible fisheries, No 4: fisheries management.
LTR/SEC/Kgm/04	
LTR/SEC/Kgm/05	Miscellaneous working/reference documents
LTR/SEC/Kgm/05.01	Working group presentation notes: <ul style="list-style-type: none">• Context of Management (1). Fisheries of Lake Tanganyika, the Zambia experience.• Context of Management (2). Fisheries of Lake Tanganyika, the Tanzanian experience.• Context of Management (3): Lake Tanganyika fishermen monitoring and reporting practices in Zambia and Tanzania.• Group discussion notes: Preliminary inventory of key management issues.
LTR/SEC/Kgm/05.02	List of previous socio-economic studies of Lake Tanganyika fisheries & lakeshore communities
LTR/SEC/Kgm/05.03	Working group presentation notes: <ul style="list-style-type: none">• Review of IFIP studies (Tanzanian & Zambian sectors).• Review of IFIP studies (Zaire & Burundi sectors).• Review of LTBP studies (Tanzania & Zambia).• Group discussion notes: Summary of geographical and topical coverage in previous investigations; areas of

sufficient/insufficient coverage.
 Priority topics for current LTR
 management-related socio-economic field
 investigations.

- Annexes: Copies of questionnaires used in IFIP survey of Zambia and Tanzania sectors.

LTR/SEC/Kgm/05.04	Preliminary landing site/fishing village lists, Lake Tanganyika (Zambia & Tanzania sectors)
LTR/SEC/Kgm/05.05	Lake Tanganyika Biodiversity Project: Extracts from the 1996 NR report on 'Social, economic, and sectoral features of the Lake Tanganyika Basin baseline review' (Vol. Two, Annex 4)
LTR/SEC/Kgm/05.06	Inventory of possible issues/areas for LTR socio-economic investigations (with 'Thought chart')
LTR/SEC/Kgm/06	Draft field survey forms: working group on fishing units & operations
LTR/SEC/Kgm/07	Draft field survey forms: working group on fishing communities & post-harvest
LTR/SEC/Kgm/08	Draft notes on survey procedures: working group on sampling & operational planning
LTR/SEC/Kgm/09	Workshop group summary observations & recommendations
LTR/SEC/Kgm/10	Draft workshop proceedings.