2-2, Minutes of Meetings at the End of Field Work

MINUTES OF THE TINAL MEETING BETWEEN JIGA STUDY TEAM (JST) AND SURVEY OF KENYA (SK) HELD ON 27TH & 28TH FEBRUARY, 1990 AT survey field headquarters nairodi.

#### PRESENT

J.R.R. Agenyo Assistant Director of Surveys (Mapping)-Chairman A.D.O. Odhiambo Superintending Surveyor (Mapping)

D.A. Chabeda J.J. Kibore Mr. - Principal Photolithographic Assistant: Principal Photogrammetric Assistant: Chief Cartographic Assistant-Scoretary Mr. J. Ogutu O.A. Kimele Mr. 01/0 1/50,000 Mapping Drawing Office: Mr.

Mr. A. Itabashi Japanese Expert: Mr. M. Nakai Japanese Expert:

Mr.

S. Salto K. Muraoka T. Hidaka JICA Study Team (Team Leader): JICA Study Team (Deputy Team Leader): JICA Study Team (Chief Surveyor): Mr. Mr.

Mr. R. Mateunaga - JIOA Kenya Office - 28/2/901

The Chairman opened the meeting at 9.40 a.m. and welcomed the JST Leader, Mr. S. Salto, who arrived in Kenya on Saturday 24th February, 1990 to supervise the progress of the Mapping project. He (the Chairman) told Mr. Salto to feel at home during his stay in Kenya. He then invited the Deputy Leader Dr. K. Muraoka to table the Agenda for the meeting. for the meeting, and brail to all

#### Agenda'i

Team beader Introduction of Team Leader

2.

Progress Report
Report of Sub-Committee Meetings
Printing Materials
Items for Confirmation to be agreed Programme of next phase which will be done in Japan

Any Other Business (A.O.B.).

#### 1. Introduction of Team Leader!

医眼性乳腺腺 医瞳孔 医心脉性皮肤性炎 医红斑 The JST Deputy Leader Dr. K. Muraoka introduced the Team Leader Mr. S. Saito to the participants and said that majority of the participants had met Mr. Saito before.

#### 2. Progress Report:

The Deputy Leader of JST Dr. Muraoka presented a prepared progress report of the third year's field work for the topographical mapping of South Kenya - (Attachment II). The report ofted a number of tasks and the way they were scheduled to be tackled.

After touching on the objective of study and scope of work for the third phase the report dealt with the followings

#### 2.1 Field completion:

Field work for this phase was devoted mainly to field completion for the whole area to clarify important items to be presented on the map - topography, ground features, place names and

in and high the legislation of the articles of the reduction that the beautiful articles in the reduction of the control of th doubtful points which arose while plotting and compiling the map sheets.

It was observed that for verification and inscription of names and administrative boundaries; close cooperation of SK counterparts was cordially requested and that important changes of ground features after aerial photography were supplemented in the field when necessary. The most important thing noticed in the field was the construction of the Kilifi Dridge, Dr. Muracka said in his report.

# 2.2 Field verification:

It was reported that for the areas covered by aerial photographs taken in Phase II, plotting and compilation were executed without field verification of aerial photographs. Field verification for such areas was executed at the time of field completion.

Dr. Muraoka observed that the method of verification in Kenya was slightly different from that practised in Japan. In Japan, verification is done by photographs before plotting while in Kenya it is done after plotting.

Dr. Muracka's report also dealt with plotting and compilation, field completion; field verification and organization of the field survey team. It was observed that on field completion there were many changes in the names as indicated in the progress

On organisation of the field survey team, it was reported that the team was divided into 4 (four) parties, each party comprising two Japanese Surveyors and one Kenyan counter-part.

#### Survey Schedule:

The base camp for field work was established near Mombasa and the study area was divided into three areas A, B and C and all the parties worked in one area at the same time. The Base Camp was at 'A' and Sub-Camps at 'B' and 'C' at Malindi and Voi respectively.

The Survey Team was scheduled to return to Nairobl on Wednesday

#### Acknowledgement by JST:

With the end of field completion and field verification, the field survey for the study is finished. The remaining tasks are fair-drawing (by scribing) and printing of maps which will be executed in Japan and expected to be completed by March, 1991.

At the completion of the field survey, Dr. Muracka (Deputy Team Leader) on behalf of the JST expressed their indebtedness to the cooperation of the S.K. counter-parts who worked with the team in the field. The counter-parts did a splendid job, he confirmed.

The Team was also indebted to the Provincial Surveyor, Coast, the Provincial Wildlife Officer, Mombaea, the District Officer, Malindi and the authorities concerned for their Kind occperation.

The Chairman told the JST that S.K. had noted their progress report with appreciation. He (the Chairman) was pleased to hear that JST were happy with the work of S.K. counter-parts. This observation was encouraging since the success of the field completion depended on the cooperation between the JST and the counter-parts.

#### Printing Materials:

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**美国经验** 

Dr. Muraoka (Deputy Team Leader) supplied S.K. with a copy of the list of printing materials being supplied by JICA to the Survey of Kenya in connection with the mapping project as earlier agreed. Attachment III) ---In accordance with the list, he explained the details of materials and the use.

#### 4. Report of Sub-Committee Meetinge:-

S.K. presented a report of the Sub-Committee Meetings held at Survey Field Headquarters, Ruaraka on 12th, 17th and 18th January, 1990. The meetings were held between JST and S.K. members and dealt with specific subjects which are recorded in the minutes attached to these minutes as Attachment I. It was observed during the discussion that some specific items which require action by S.K. have already been solved and some are still being solved to be ready before the JST leaves for Japan in early March, 1990.

During the presentation of the Sub-Committee Report, Dr. Muracka wanted to know what should be done where an administrative name appears different from the one from the Doundaries Section. It was discussed and agreed that where such a situation arises then the hame from the Boundaries Section should be accepted and the area name collected in the field corresponding to the administrative name shall be shown in parenthesis,

#### Fairdrawing, Soribing and Printing!

JST requested that before printing, S.K. should supply, 3 (three) representative printed maps of different areas including the violet sample to be used as sample for selecting the printing colours in Japan.

# 2 ND FOLLOW-UP MEETING HELD ON 28TH FEBRUARY, 19901

and become not desirable

The Chairman opened the meeting at 9.50 a.m. and welcomed all the participants particularly the JICA representative to the meeting. The JICA representative Mr. R. Mateunaga had come to the meeting to report about the type and condition of the vehicles to be handed over to S.K. by JICA after the completion of the study. The Chairman then asked Dr. Muraoka to guide the meeting on the items to be discussed. on the items to be disoussed.

In his address to the meeting, Dr. Muracka told the participants that most of the Items of agenda had been discussed the previous day and that this particular meeting was to discuss how to hand over the vehicles used during the study period by the JST to S.K. He also said that there were a few points which needed clarification before the minutes are finalised. He presented the draft sheet History to the meeting for scrutiny and confirmation. The sheet History was checked and confirmed as follows:

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#### SHEET HISTORY (DRAFT)

Edition 4 reconstructed by Japan International Cooperation Agency (JICA) under the Japanese Government's Technical Cooperation Programme.

Field Survey Data by JICA and partly by Survey of Kenya.

Aerial Photography by JICA February, 1988 and January, 1989.

Field Identification by JICA and partly by Survey of Kenya.

Aerial Triangulation. Plotting and Compilation by JICA.

Field Completion by JICA and Survey of Kenya March, 1990.

Administrative and Cadastral boundaries by Survey of Kenya.

Fairdrawing and preparation for Reproduction by JICA 1990/1991.

Administration and Publication by Survey of Kenya. JST reported the draft to JICA HQ., Tokyo and got the approval.

In his report to the meeting the JICA Representative Mr. Matsunaga told the meeting that there were six vehicles which were used in the field by the JST members during the study period and which would be handed over to S.K.

..../

lle reported that there were:-

) (three) Pajoros, 2 (two) Subaru Saloone and 1 (one) Toyota Pickup.

The JICA representative further told the meeting that of the six vehicles; 3 Pajeros were rather bld; 2 Subarus (Saloons) were in good condition and would be used by JICA experts in the beartment;

After discussion SK accepted that SK will have 3 Pajeros and 1. pick-up and that JJOA will retain Subarus for the use of Japanese Experts in Survey of Kenya.

#### 5. The S.K. Counter-parts Reports

Mr. Z. W. Citau's report on behalf of the S.K. counter-parts gave a brief account of their impression. He (Mr. Citau) said that they were very happy with the way they were received by JST in Mombasa and the cooperation of the JST members in the field during the field completion exercise. He said that the S.K. counter-parts had benefitted from the experience of the JST members and said that they (counter-parts) had learnt much on how to organise their work schedules in future. The JST worked very hard until very late in the night and this was an inspiration to them.

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JICA representative reported to the meeting thet he had received a report from JICA NQ. in Tokyo that it will not be possible this time to send some senior S.K. staff to Tokyo to check the proofs after fairdrawing and before actual printing.

It was, however, observed by the meeting that this procedure is necessary to get good final products (maps) and it was therefore discussed and S.K. strongly appealed to the JICA representative and JST members to take up the matter further with JICA Headquarters in Tokyo to reconsider their earlier decision not to allow S.K. members to go to Japan to check the final proofs and sign the agreement for printing the maps. The JICA representative and JST members noted the S.K. appeal and took note of the appeal.

#### JST Leader's Comments;

Principal of the

The JST Leader Mr. S. Saito, on behalf of himself, JIOA representative and JST members thanked the Director of Surveys and his staff for the cordial reception extended to JST during their stay in Kenya. He was pleased to note that the mapping exercise had been executed as scheduled. He was also pleased that both JST and S.K. members had worked co-operatively for the success of the mapping project and hoped that the cooperation between S.K. and JIOA will continue.

#### Chairman's Commenter

The Chairman thanked the JICA representative Mr. Matsunaga, JST Leader Mr. Saito, JST and S.K. members for their useful contribution to the discussions which were conducted in a candid, cordial and friendly atmosphere and the seriousness with which they taokled the various issues connected with the mapping project. He also thanked the Sub-Committee members who discussed the various technical issues in detail. Furthermore, he thanked all those who carried out field completion and field verification and who contributed to the success of the exercise. He said that the Department was looking forward to receiving the printed maps and repromats as scheduled. Finally, hoped the co-operation between JICA and Survey of Kenya will continue. The Chairman then wished the JST delagation a safe journey to Japan and closed the meeting at 11.15 a.m.

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Date: 2nd March, 1990

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# RECORD OF PISCUSSION ON CARTOGRAPHIC AND LITHOGRAPHIC ASPECTS OF THE SOUTH KENYA MAPPING PROJECT

2. Place

Flold Hendquarters, SK, kunraka

3. Attendants;

(1) Survey of Kenya

Mr. D.A. Chabeda Principal Lithographic Assistant Mr. J. Ogutu Chief Cartographic Assistant

Mr. P. Muia Chief Lithographic Assistant Mr. C.A. Kimele Officer-in-charge-1/50,000 Mapping

Mr. S.F. Mugadi Photolithographic Assistant I. Mr. Z.N. Öltau Assistant Officertine Charge 41/50.000 Mapping

(2) JICA Study Team

Dr. K. Muraoka Deputy Leader Mr. M. Yoshida Mapping Planner Mc. T. Hidaka Chief Shrveyor

- 4. On specific subjects meetings were held by small groups.
- 5. Concerning the field completion, JST made request of undertakings by SK. After discussions followings were accepted.
  - a. Place hame and its location shall be checked and revised, when necessary, on the data sheet for place name in reference, to the dompiled manuscript.
  - b. Administrative boundaries shall be drawn on the compiled manuscript.
  - c. Data for property boundaries shall be prepared and supplied.
- 6. Dr. Muraoka, Deputy Leader of JST, read the "Draft Plan of Operations for Phase IV", In connection with the Study for this Phase, followings were discussed and agreed upon:

as Map symbols and their applications

(i)

When the important ground feature, and annotation are superthiposed, on each other. the latter shall be slifted. The pricerity of shifting is as shown in the figure.

- (11) Cut Ine passable by whiches shall be tepresented by the same symbol and colour as those of track (in red) with annotation "Cut line" in black. Others are prepresented In A Black, with annotation "Cut line" lin black.
  - ([][]) Fence shall be annotated in black.
- b. Map style

det minn en aleman.

- (i) Sheet history shall be prepared by SK. (ii) Sample sheet of new legend shall be prepared by SK.
- (111) Representation of number of prints shall be as follows: Por general use map 500/3/91 (in black)

for administrative use map

WERE THE WINE TO SEE THE RESERVE TO

500/3/91 (in black) 500/3/91 (in violet);

Number of prints

For sheets on which no sub-district boundary appears, it is not needed to prepare administrative eddition. For such sheets number of prints of general use edgition shall be the total number of 1,000.

31st January 1990, Ruaraka

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Chief Cartographic A

Deputy Leader

PROGRESS REPORT 

THE TOPOGRAPHIC MAPPING OF SOUTH KENYA

LIN.

THE REPUBLIC OF KENYA

... --- March, 1990 ---

grande principalitation de la companya de la compa La companya de la companya della companya del

STUDY TEAM OF OF TOPOGRAPHIC MAPPING IN SOUTH KENYA THE REPUBLIC OF KENYA

JAPAN INTERNATIONAL COOPERATION AGENCY

#### J. INTRODUCTION

The topographic mapping of South Kenya (hereinafter referred to as the "Study") started in October 1987, Incorregar term study, as a technical cooperation program of the Japan International Cooperation Agency (horeinafter referred to as "JICA").

lm compliance with the Scope of Work agreed upon between the Ministry of Lands and Housing and JICA on the 19th March, 1987 (hereinafter referred to as "S/W"). amulicae Study Team (hereinafter referred to as the "Team"). composed of 13 members, was despatched to Kenya oon the 8th January | 1990 | for 60 days to execute the third year's field work. ! Meanwhile 4 Kenyan counterparts despatched by the Survey of Kenya (hereinafter referred to as "SK") joined the Team for fleld work with successful results the contract that

In acomplishing the third year's field work, the summary of the progress of the work is reported. 

# LIN OBJECTIVE OF THE STUDY

a de la compania del compania de la compania del compania de la compania del compania de la compania de la compania de la compania del compania de la compania de la compania de la compania de la compania del compania The objective of the Study is to prepare 1/50,000 topographic maps covering an area of approximately 29, 800 km² in South Kenya from east of Longitude 37°45 Eto the coast and from south of Latitude 398 to the Kenyan territory of the Tanzanian border: Main items of the Study are as follows:

- l» Λerial photography approximately 29,800 km². 2. d/50,000 topographic mapping! (1997) (1997)
  - approximately 29,800 km².

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The scope of work for the third year covers following studies:

- I. Plotting and compilation
  - Blotting and compilation shall be continued from the preceding phase to prepare the complifed manuscript of 1/50,000 topographic maps remaining 28 sheets. The whole work for 43 sheets sha) hibercompleted by December, 1989.

#### 2. Field work

271 of Field completion

文章 (1915年) 1915年 (1915年) (1 Pield work for this phase shall be devoted mainly to field completion for the whole area to clarify important items to be represented on the map + topography, ground features, place doubtful points arisen while plotting and compiand Alatkon, and and being the great the first of the constant

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·管理、由自由企業的特別的企業。 (1986年)。 (1986年))。 (1986年))。 (1986年))

For verification and inscription of names and administrative boundaries, close cooperation or SK counterparts is cordially requested in Important change of groun features after aerial photography ey shall be supplemented in the field when necessary. 

## 2-2. Field verification with the second of t

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For the areas covered by aerial photographs taken in Phase II, plotting and compilation were executed without field verification of aerial photographs. For such areas, field verification shall be executed at the time of field completion. The areas are shown in Fig. 1.

The particular and the second of the second 3. Preparation of original manuscript of maps

The and the first of the first After returning to Japan, original manuscript of map shall be repared by arranging compiled manuscript by using field-completed data.

## IV. PLOTTING AND COMPILATION

The state of the s Continuing from the plotting and compilation works in Phase II, the works for the remaining 28 sheets were executed and compiled manuscripts of 1/50,000 topographic maps of total of 43 sheets were prepared by December, 1989.

#### V. FIELD COMPLETION

On the basis of the compiled manuscript, field completion was executed,

Lagran Branca Confirmation of topography and ground features was executed chiefly by the Team members and that of toponomy by Kenyan counterparts.

For the confirmation of place names, information was obtained by visiting district offices, chief's offices, etc.; and supplemented by local people.

In the course of survey, it was found that there were many changes in name and location of locations, sub-locations; places, areas, vilages, etc. during decades from those represented on the old maps to which the manuscript of the new maps refer.

# VI. PIELD VERIFICATION

Field verification of the photo-interpreted items was executed for the areas of which aerial photographs were not field-verified in the couse of field completion. (Fig. 1)

# VII. ORGANIZATION OF THE PIELD SURVEY TEAM

The Team is divided into four parties, each party composing of two Japanese surveyors and one Kenyan counterpart. The whole parties are supervised and controlled by the chief surveyor.

#### VIII. SURVEY SCHEDULE

The base camp for field work was established near Mombasa. The study area is divided into three areas A, B, and C as shown in Fig. 2. All parties worked in one of the divided areas at the same time and executed the survey on respective sheets based on base camp Mombasa for the area A and on sub-camps Malindi and Voi for the areas B and C respectively during the periods as shown below:

Area Volume		Sub-camp	Base camp
	s 19 Jan 4 Feb		
B 8 sht	s 5 Feb 11 Feb	Malindi	Mombasa
C Z sht	s 12 Feb 27 Feb	<u>  Voi</u>	

# <u>IX. ACKNOWDEDGEMENT</u>

With the field completion, the field survey for the Study is finished. The remaining works are fair drawing (by scribing) and printing of maps, which are to be executed in Japan and expected to be completed by March, 1991.

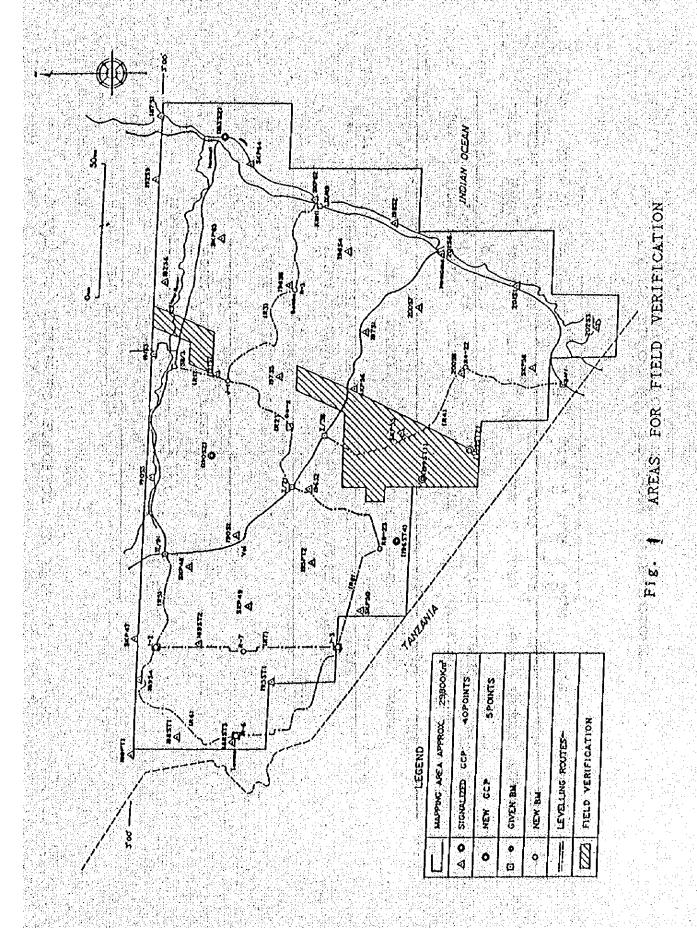
At the completion of the field survey, the Team would like to express their indebtedness to the cooperation of the counterparts done in the field. They are indebted also to the Provinces. ed also to the Provincial Surveyor, Coast, Rroyincial Wildlife Officer, Mombasa, Distric Officer, Malindl, and other authorities concerned for their kind coordination.

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TOPOGRAPHIC MAPPING IN SOUTH KENYA

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Fig. 2. SCHEDULE OF FIELD COMPLETION

# MATERIALS FOR PRINTING

Iten				Number	
printing paper	(map paper,	hasis weight	90g/m²)	50,000	sheets
Printing ink				200	kg
Printing plate.	(PS plate)			280	sheels
Gummi				10	litres
Blankel					rolls
Roll clean				72	litres
Drier				8	pieces
Super compound					kg
PS plate devel	oper			10	bollle
Pountain solutio	on				litres
lmage remover				large 12	pieces
				small 12	pieces
Sponge				1	pieces
Plate oleaner				2	litres
Developing pad				2	pieces
Receptacle				2	pieces
Cloth				200	sheets

