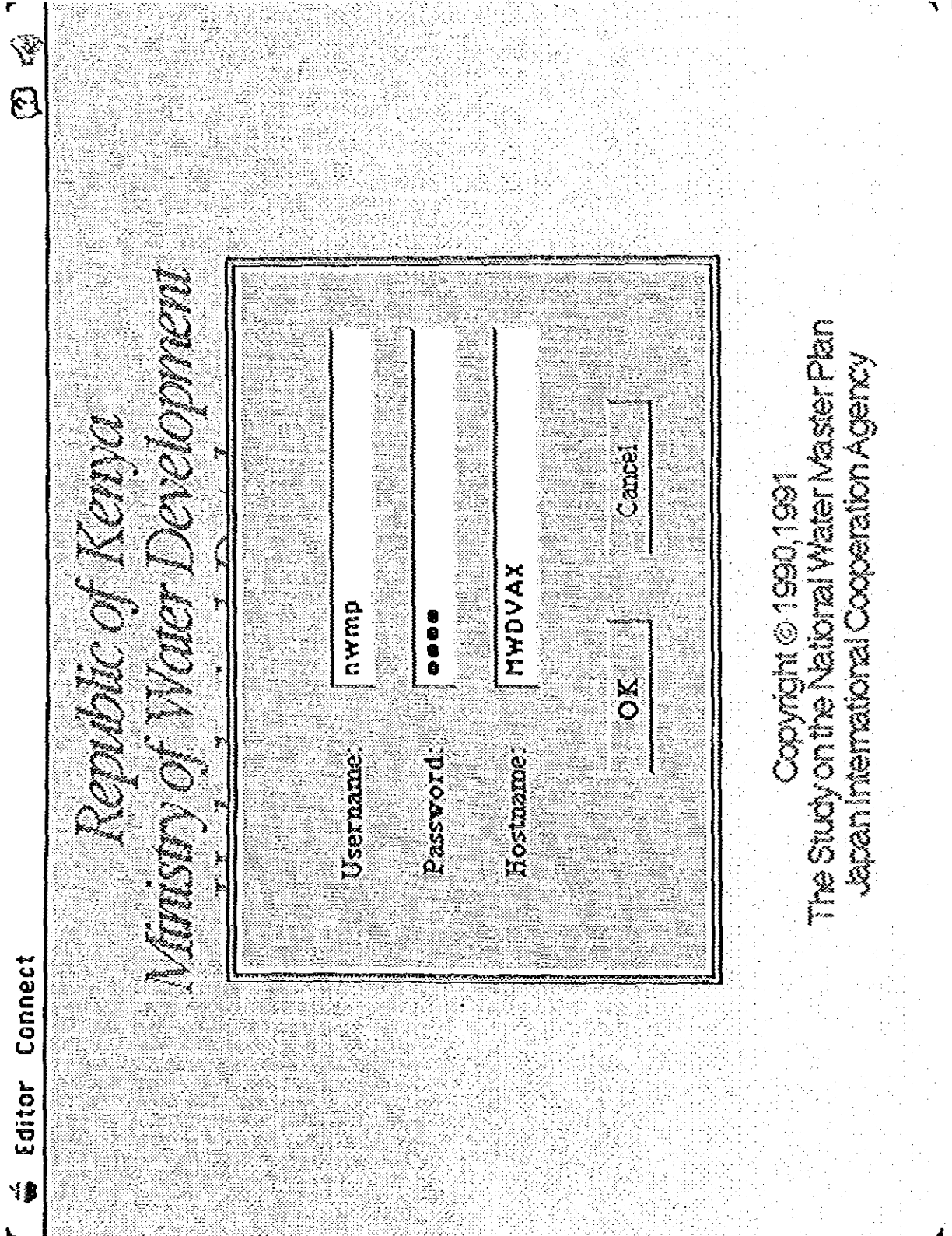


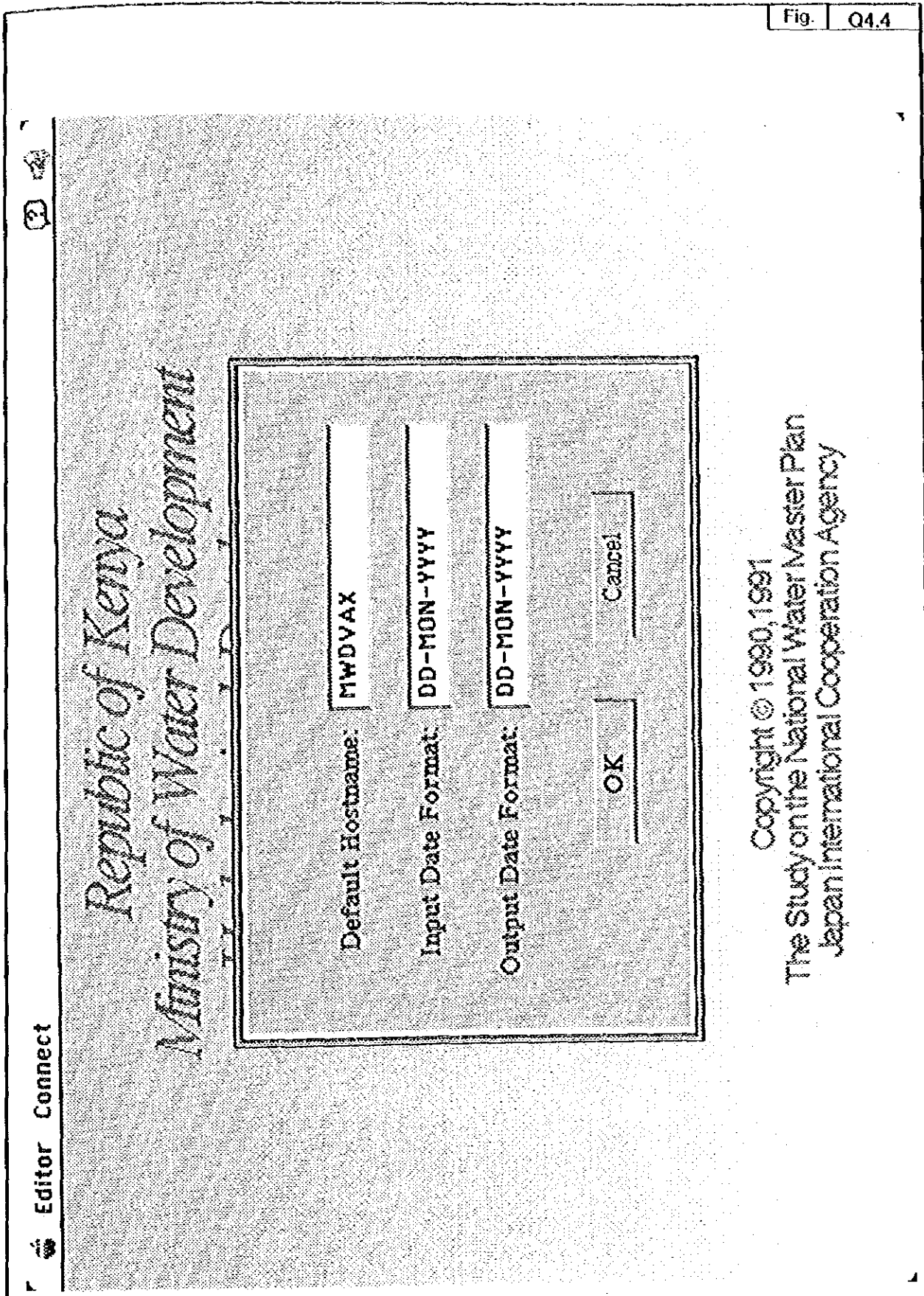
Figure Q4.2 User Interface View (Connect Menu)

THE STUDY
ON
THE NATIONAL WATER MASTER PLAN
JAPAN INTERNATIONAL COOPERATION AGENCY



Copyright © 1990, 1991
The Study on the National Water Master Plan
Japan International Cooperation Agency

Figure Q4.3 User Interface View (Login Window)



Copyright © 1990, 1991
The Study on the National Water Master Plan
Japan International Cooperation Agency

Figure Q4.4 User Interface View (Preferences Window)



Editor Connect

Summary Map

Daily Rainfall

Daily Water Level

Daily Discharge

Update

Map of Kenya Water Development Hydrological Database



Copyright © 1990, 1991
The Study on the National Water Master Plan
Japan International Cooperation Agency

Figure Q4.5 User Interface View (Summary Menu)

THE STUDY
ON
THE NATIONAL WATER MASTER PLAN
JAPAN INTERNATIONAL COOPERATION AGENCY

Editor Connect Summary Map SQLChart

Name: NYMP.RF_DATA_EXIST

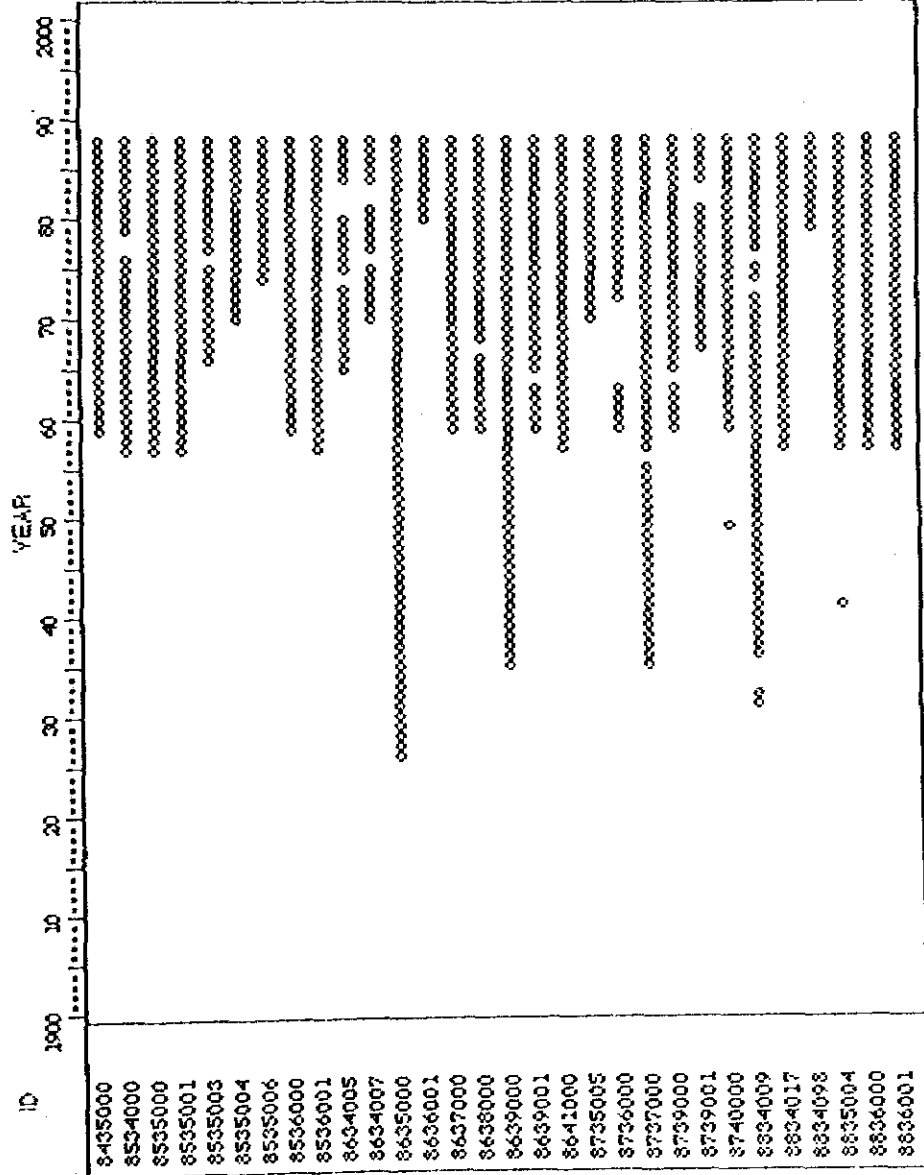


Figure Q4.6 User Interface View (Daily Rainfall Summary)

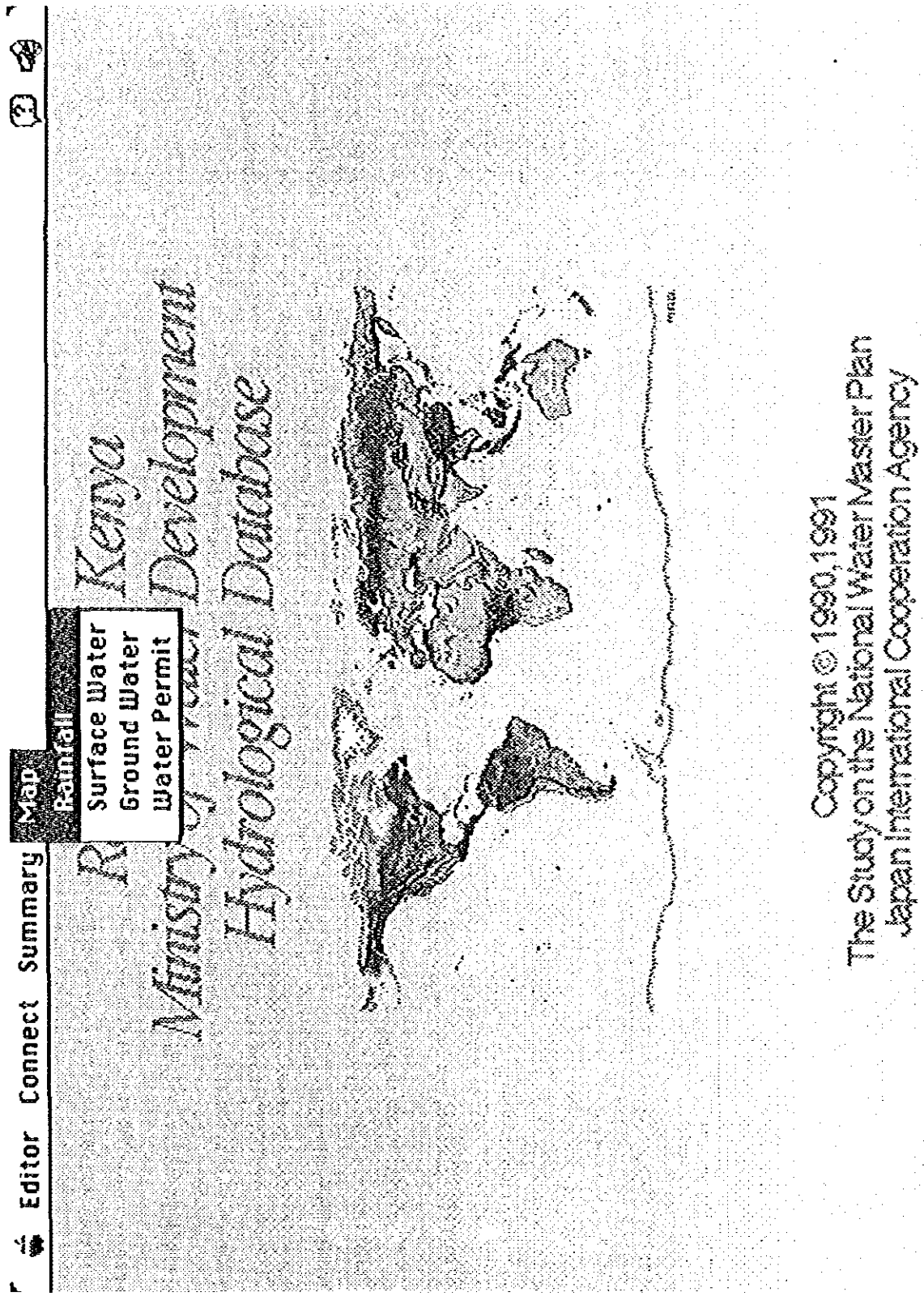


Figure Q4.7 User Interface View (Map Menu)

THE STUDY
ON
THE NATIONAL WATER MASTER PLAN
JAPAN INTERNATIONAL COOPERATION AGENCY

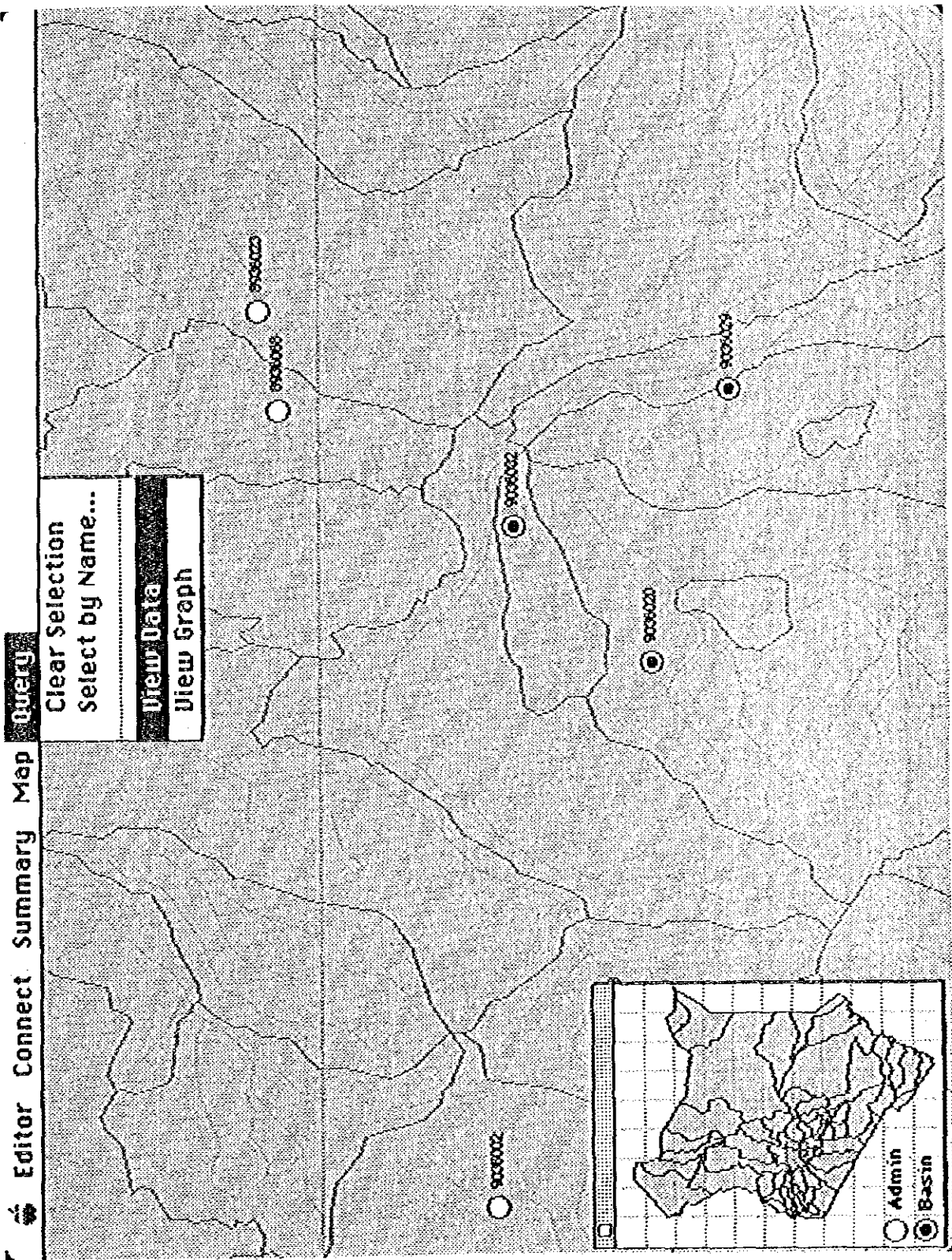


Figure Q4.8 User Interface View (Map Screen and Query Menu)

THE STUDY
ON
THE NATIONAL WATER MASTER PLAN
JAPAN INTERNATIONAL COOPERATION AGENCY

Editor Connect Summary Map Query

ID	NAME	LONGITUDE	LATITUDE	ALTITUDE	PROVINCE	DISTRICT
Expert Criteria: ID='9036020' or ID='9036032'						
9036032	BAHATI FOREST STATION	36.183333	- .166667	2493	2	10
9036029	GILGIL KWETU FARM	36.300000	- .350000	2526	2	10
9036020	NAKURU RAILWAY STATION	36.066667	- .283333	1991	2	10

Table: NUIMP_RF_ST	
ID	3 Row(s) Selected.
NAME	ID
LONGITUDE	NAME
LATITUDE	LONGITUDE
ALTITUDE	LATITUDE
PROVINCE	ALTITUDE
DISTRICT	PROVINCE
ORNGAREA	DISTRICT
	ORNGAREA
Select	Describe
Print	Export
Delete	Update
Clear	Insert
Next	Rollback
Apply	Print

Figure Q4.9 User Interface View (Table Access Window)

Editor Connect Summary Map Query

Name: NWMP_RF_ST

Type: TABLE

Comment: Meteorological station description

Constraint: ID IS NOT NULL AND NAME IS NOT NULL

Comment

Column Name

Data Type

Null?

Comment

Column Name	Data Type	Null?	Comment
ID	NUMBER(6)	N	Station id
NAME	CHAR(32)	N	Station name
LONGITUDE	NUMBER(10,6)	Y	longitude (degree)
LATITUDE	NUMBER(10,6)	Y	latitude (degree)
ALTITUDE	NUMBER(4)	Y	altitude (m)
PROVINCE	NUMBER(1)	Y	Province code
DISTRICT	NUMBER(2)	Y	District code
DRNGAREA	NUMBER(4)	Y	Drainage area code
STTYPE	NUMBER(1)	Y	Station type
OPEN	NUMBER(4)	Y	Opening year
CLOSE	NUMBER(4)	Y	Closing year
CAL YEARS	NUMBER(3)	Y	Number of years used to compute monthly means
JAN	NUMBER(5)	Y	Monthly mean of January (1/10mm)
FEB	NUMBER(5)	Y	Monthly mean of February (1/10mm)
MAR	NUMBER(5)	Y	Monthly mean of March (1/10mm)
APR	NUMBER(5)	Y	Monthly mean of April (1/10mm)
MAY	NUMBER(5)	Y	Monthly mean of May (1/10mm)
JUN	NUMBER(5)	Y	Monthly mean of June (1/10mm)
JUL	NUMBER(5)	Y	Monthly mean of July (1/10mm)
AUG	NUMBER(5)	Y	Monthly mean of August (1/10mm)
SEP	NUMBER(5)	Y	Monthly mean of September (1/10mm)
OCT	NUMBER(5)	Y	Monthly mean of October (1/10mm)
NOV	NUMBER(5)	Y	Monthly mean of November (1/10mm)
DEC	NUMBER(5)	Y	Monthly mean of December (1/10mm)
DMAXDATE	DATE	Y	Date of daily maximum
DAILYMAX	NUMBER(4)	Y	Absolute daily maximum (1/10mm)

Figure Q4.10 User Interface View (Table Description Window)

THE STUDY
ON
THE NATIONAL WATER MASTER PLAN
JAPAN INTERNATIONAL COOPERATION AGENCY

Editor Connect Summary Map Query

ID	NAME	LONGITUDE	LATITUDE	OPEN	DAILYMAX
Name: (Order) Criteria: Expert Criteria: ID='9036020' or ID='9036029' or ID='9036032' Date:					
9036032	BAHATI FOREST STATION	36.183333	- .166667	1930	409
9036029	GILGIL KUETU FARM	36.300000	- .350000	1920	460
9036020	NAKURU RAILWAY STATION	36.066667	- .283333	1904	526

Table: NIJMP_RF_ST
 3 Row(s) Selected.

Column: (click here to shrink) Selected:

ALTITUDE	→	ID	→
PROVINCE	←	NAME	→
DISTRICT	←	LONGITUDE	→
DRNGAREA	←	LATITUDE	→
STTYPE	←	OPEN	→
OPEN	←	DAILYMAX	→
CLOSE	←		→
CALYEARS	←		→

Figure Q4.11 User Interface View (Another View of the Table)

APPENDIXES

APPENDIX Q.1

OPERATION OF DATABASE

APPENDIX Q.1

OPERATION OF DATABASE (Extracted from User Manual)

1. Introduction

1.1 Users

Users of the database are classified into three groups;

- (1) System Manager
- (2) Assigned Operators
- (3) General Users

The System Manager and persons authorized by the System Manager are allowed to operate the entire systems. The following actions can be carried out only by them.

- 1) entry of data to the database from the console of PC
- 2) entry of data to the database by means of diskettes or tapes
- 3) amendment of the station tables
- 4) updating of the data tables
- 5) amendment of the location map by adding a new station
- 6) any correction of data stored
- 7) registration of new view tables
- 8) registration of user name and password

General users are allowed the following operations.

- 1) retrieving data on the database
- 2) looking up necessary data on the client PC
- 3) printing the necessary data in output form and/or exporting them in devices

1.2 Overview of the Database

The database is designed to handle 16 categories of data related to meteorological and hydrological data as listed in the previous Chapter including map information and table information.

Data is structured in columns, vertically, and rows, horizontally. The Table Access Window is a general form of the table information. All the data tables can be presented in the Table Access Window. Each row is made up of fields. Each field contains a data value at the intersection of a row and a column. Operation of data entry, update, retrieving and export can be carried out on the Table Access Window.

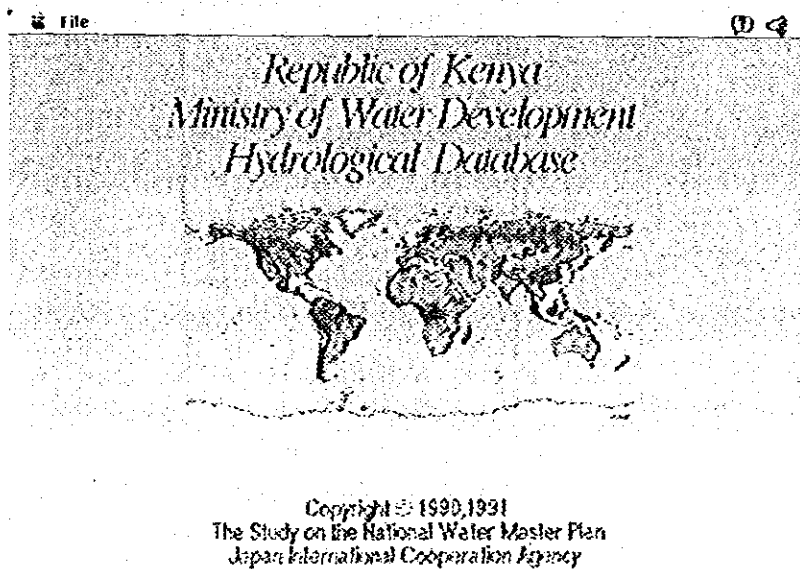
The locations of meteorological and hydrological stations are illustrated on 1 in 500,000 maps covering whole territory of Kenya which appear on the display monitor. The objective station is easily selected by looking up the maps.

Other major functions of the database are 1) to generate summary charts of the daily data of rainfall, water level and discharge and 2) to generate an output form for each table information that has been built into the database.

2. Starting Up

2.1 Start Up Screen

When you start up the Client PC (Macintosh, hereinafter called MAC), you can find the icon of Hydrological Database on the desk top screen of MAC. Select the icon and double-click it. Soon, the Start Up Screen I of the Hydrological Database will appear on the display of MAC.



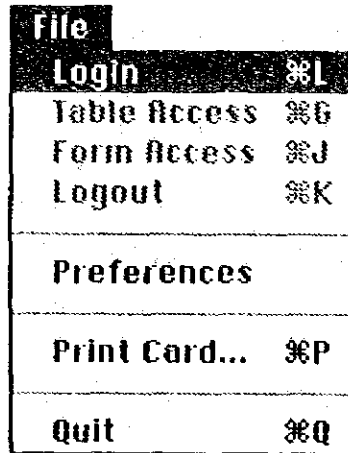
(Fig.1 Start Up Screen I)

At this moment, the VAX Server has not been connected to MAC.

The menu bar at the top of the screen shows *Apple* and *File* menus.

2.2 Connection of PC Client to Server

Pull down the *File* menu by pressing and holding the mouse over it. You can find the *Login* and *Preferences* Commands inside this menu.



(Fig.2 File Menu)

2.3 Login Command

To connect the Client PC (MAC) with the VAX Server, select the *Login* Command from the pull down menu. Login window will appear.

A screenshot of a 'Login' dialog box. The title bar says 'Login'. There are three input fields: 'Username:' with the text 'NWMP', 'Password:' with ten dots, and 'Hostname:' with the text 'MWDVAX'. At the bottom, there are two buttons: 'OK' and 'Cancel'.

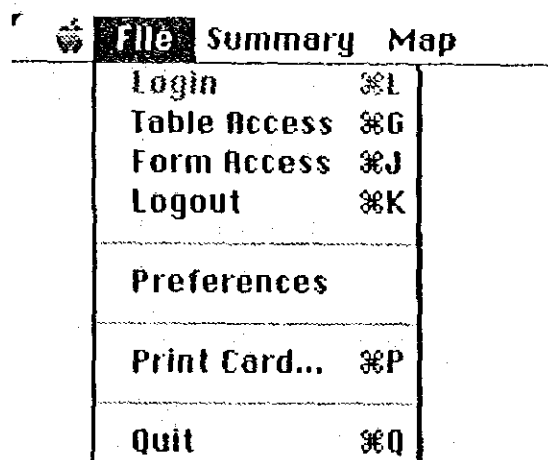
(Fig.3 Login Window)

Type in the username and password in the appropriate columns of the window.

The username and password must have been registered in advance. New users are requested to contact System Manager to register their name.

Click the OK button, then the login process proceeds from MAC to VAX server.

When the connection of MAC and VAX server is completed, the menu bar of the Start Up Screen is renewed by adding some other commands. The menu bar will contain *File*, *Summary* and *Map* menus.



(Fig 4 Menu bar after Login)

2.4 Change Default Values

When you select *Preferences* Command on the pull down menu of *File*, the Preferences window will appear.

You can set a default hostname and date formats for input and output forms.

Type in your preference name and formats, if necessary. The default values are shown below.

Preferences

Default Hostname:

Input Date Format:

Output Date Format:

Field Separator for Import and Export: Tab Comma

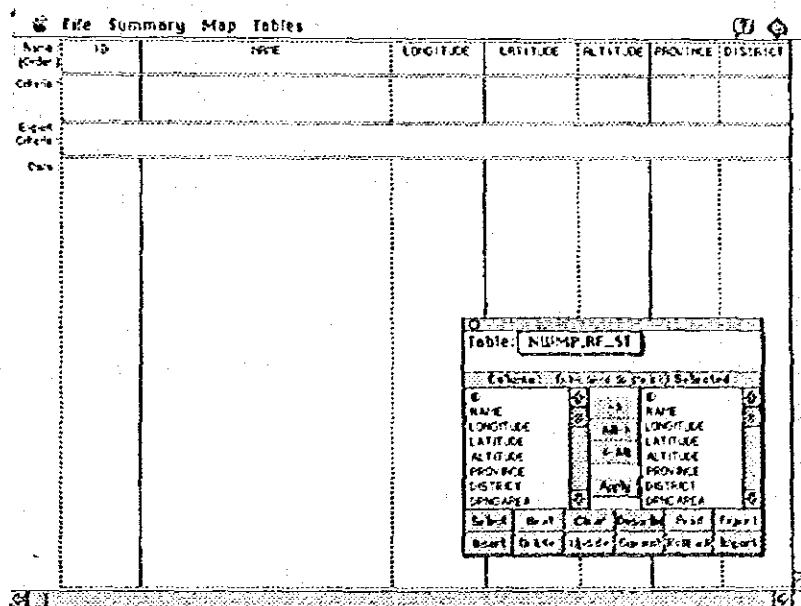
(Fig.5 Preferences Window)

Click the OK button, then the process returns to the previous screen.

3. Table Access Window

The Table Access Window is a general form of table information. To open the Table Access Window, select *Table Access...* Command from *File* menu. Release the mouse button and *Tables* menu will appear displaying all the tables available for opening. Select one of the table name that you want to access, then the Table Access Window of the selected table type will appear.

In the lower right-hand side of the screen, a Control Panel will be displayed. Using Control panel all the major operations of the database including changing the table, data entry, update, import and export can be performed.



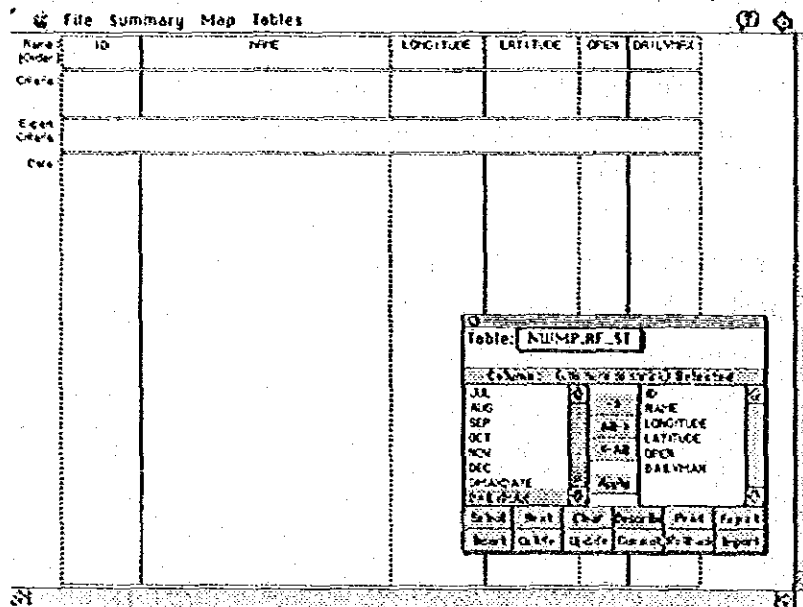
(Fig.6 Table Access Window)

At the top of the Control panel, there is a field for table. Hold down the field, a list of table names stored in the database will be listed vertically. Keep holding down the mouse and select one of the table name, then release the mouse. The screen is cleared and rewritten to fit the selected table type.

In the middle of the Control panel, conditional setting functions are provided for creating other types of view table. All the column names of the table are listed in the left hand side window.

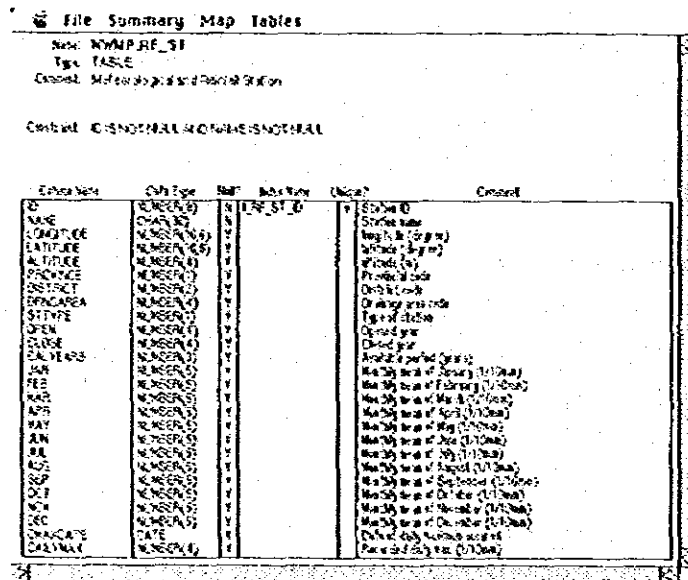
If you want to get limited items of information from the selected table, you can select the necessary column on the control panel, and create a new table containing only the selected

column information. In Fig.7 columns ID, name, longitude, latitude, open date and daily max rain are selected.



(Fig.7 Another View of Table Access Window)

You can also see a list of all the column name contained in the selected table with their data type, null condition and comment description as shown in Fig.8 by pressing Describe button from the control panel.



(Fig.8 Column Descriptions of Table)

The other buttons in the lower part of the panel are provided for data retrieving, data entry, updating, importing, exporting and printing. Detailed descriptions of operation of these buttons are given in the following sections.

4. Data Entry

To enter data in the Database, you have two choices. One is to type in from the console of MAC and the other is to import a data file through a diskette or other devices.

4.1 Entry of New Data from Console

File	
Login	⌘L
Table Access	⌘G
Form Access	⌘J
Logout	⌘K
Preferences	
Print Card...	⌘P
Quit	⌘Q

(Fig.9 File menu)

Pull down the *File* menu, and select the *Form Access* Command, then the *Forms* menu will appear on the menu bar and you can select a list of input table names from the pull-down menu. Select one of the input table names in which you intend to input data.

Forms	
✓ MAP : Map Information	
RF_ST : Meteorological and Rainfall Station	
RF_MT : Meteorological Data	
RF_MDATA : Monthly Rainfall Data	
RF_DATA : Daily Rainfall Data	
SW_ST : Water Level Gauging Station	
SW_DATA : Water Level Data	
SW_HQ : Discharge Measurement Data	
SW_RC : Rating Equation	
SW_Q : Daily Discharge Data	
SW_SL : Suspended Load Monitoring Data	
SW_WQ : Surface Water Quality Data	
GW_ST : Borehole Data	
GW_WQ : Groundwater Quality Data	
WP_ST : Water Abstraction Permit Description	
WP_ABST : Water Abstraction Rate	

(Fig.10 Forms menu)

Select a table name from the menu, then the input form of the selected table appears on the display. Type in necessary information required in the input form. The key information such as Station code, Borehole reference code or Water permit no. must be filled.

The screenshot shows a software window titled "File Summary Map Forms". On the left side, there is a vertical list of input fields with the following labels: MAPNO:, NAME:, SCALE:, LEFT:, BOTTOM:, RIGHT:, TOP:, GRIDLEFT:, GRIDBOTTOM:, GRIDRIGHT:, and GRIDTOP:. Each label is followed by a rectangular input box. The "NAME:" box is significantly longer than the others. On the right side, there is a vertical toolbar with several icons. At the bottom right, there is a control panel with a grid of buttons. The buttons are arranged in two rows. The top row contains buttons labeled "Select", "Insert", "Clear", "Commit", and "Print". The bottom row contains buttons labeled "Select", "Delete", "Help", "Cancel", and "Rollback".

(Fig.11 Input Form)

Click the *Insert* button after checking that all the columns in the input form were correctly filled. Then you have to confirm the insert operation by clicking the *Commit* button to proceed the process, or clicking the *Rollback* button to cancel the insert operation. On confirming, the program will proceed to store all the information in the table into the Database properly.

To print out the input form filled with data, click the *Print* button.

Name (Order)	ID	NAME	LONGITUDE	LATITUDE	ALTITUDE	PROVINCE	DISTRICT
	0130773	NEW NIBIRGI STATION	36.8	-1.3	1850	7	

ID	NAME	LONGITUDE	LATITUDE	ALTITUDE	PROVINCE	DISTRICT	OSKAREA

(Fig.12 Direct entry into the Table Access Window)

You can also directly enter data into the table through **Table Access Window**. Open the **Table Access Window** from the **File** menu. To enter new data, first clear the table by clicking the **Clear** button in the control panel. Now you are ready to enter data from the console into the table displayed on the screen. Move the arrow mark on the field you want to enter a value and click on it. Then type in the value and press return. Repeat this operation till you complete to enter all the data, and click the **Insert** button. Then you have to confirm the insert operation by clicking the **Commit** button to proceed the process, or clicking the **Rollback** button to cancel the insert operation.

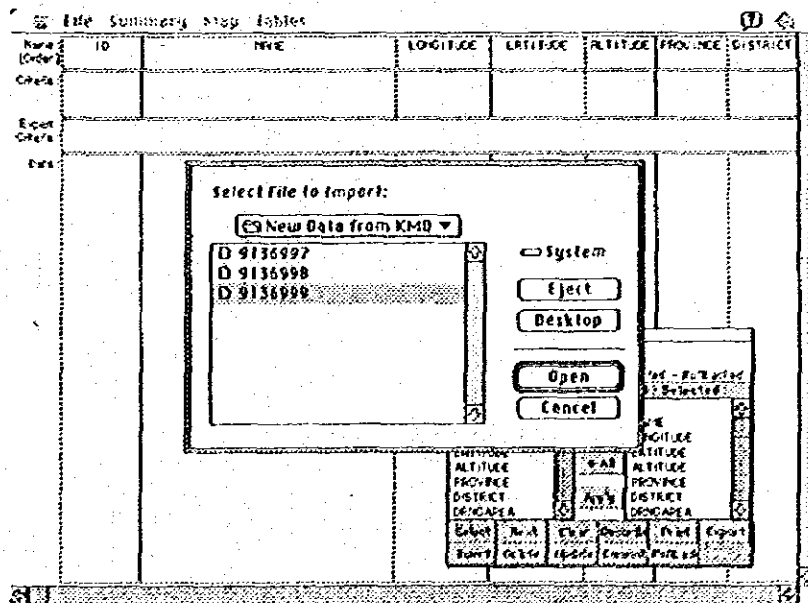
For entering daily data and monthly data, use the **Import** procedure. A data entry system for these data is separately prepared on MAC by using a spread sheet application. Data file shall be prepared by the data entry system and be exported to the Database system by using **Import** procedure to be described in the next section.

4.2 Import

Import allows data to be read into the Table Access Window from sources other than the Console of PC. To import data, open the Table Access Window with the objective table name and select the *Import* button from control panel.

Click the *Import* button, then the Dialog box for import will appear. Select the file name that you want to import from the list of files in the box by selecting the appropriate device and open it by clicking the *Open* button. The data to be imported shall be prepared to fit the objective table format of the Database.

This operation proceeds to import data from the MAC. When the importing data operation is completed, the process returns to the Table Access Window. To look up the imported data, click *Select* button. All the data imported are added at the end of the previous data row in the table. If you want to save the data in the database, click *Commit* button in the control panel, or click *Rollback* button to cancel the import operation.



(Fig 13 Import Operation)

All the data to be entered shall be expressed by the following three types of data .

- 1) Character type (valuable length character data, maximum length is 255)
- 2) Number type (integers or real numbers, maximum precision is 38)
- 3) Date type (dates are allowed from January 1, 4712 BC to December 31,4712 AD)

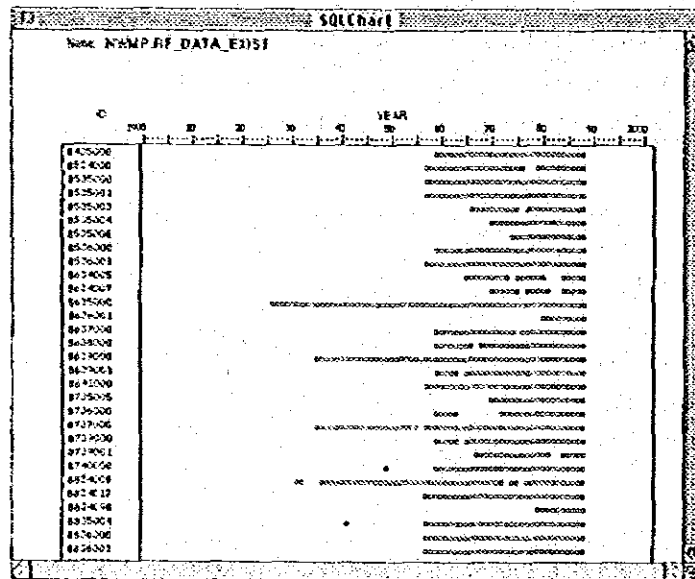
If a data row lacks a data value for a particular column, that value said to be null. Columns of any data type may contain null values.

5. Retrieving System

For retrieving data stored in the Database, you can select the *File, Summary, Map, Tables, Forms* and *Query* menus in the menu bar.

5.1 Summary Information

To examine the availability of daily data, select the *Summary* menu and pull down the submenu which contains the *Daily Rain, Daily Water Level* and *Daily Discharge* Commands which represent daily rainfall, daily water level and daily discharge, respectively. The availability of these daily data on annual basis for all the registered stations is summarized in a form of bar chart as shown below.



(Fig 14 Summary Chart of Daily Rainfall)

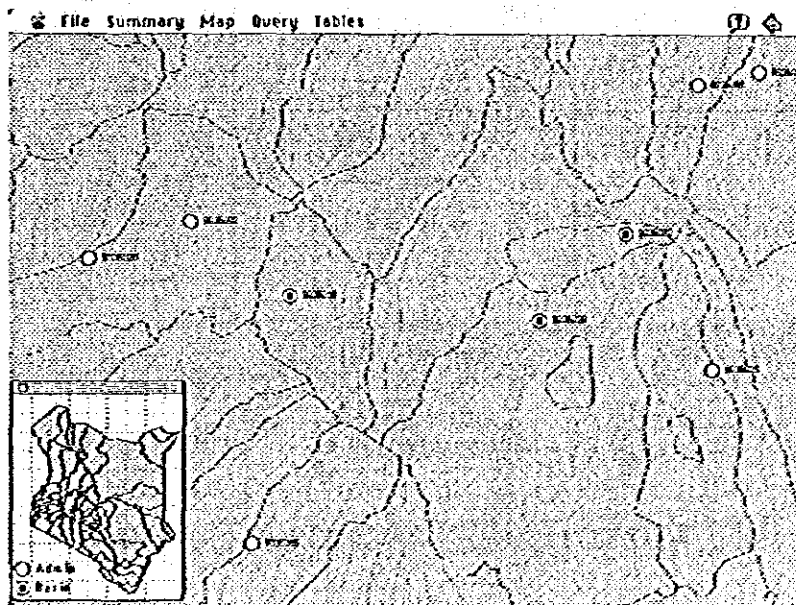
If all the stations are not displayed in the screen at once, scroll the screen up or down.

To return to the previous screen, click on the small box at the upper left corner of the screen.

5.2 Map Information

You can find out the objective station on the location map prepared in the Database system. This operation is effective for meteorological stations and hydrological stations, but location maps of borehole and water permit are not prepared in this system.

Select *Map* menu on the menu bar and pull down the submenu in which *Met. Station* and *Hydro Station* Commands are contained. You can select one of them to proceed to a location map. Fig.15 illustrates a location map in which the location of Meteorological Station is illustrated as an example.



(Fig.15 Location Map)

The map shows the location of meteorological stations. An Index map is shown lower left corner of the screen. If you click an approximate point of the objective location of the Index map, the area including the corresponding point is shown on the Location map of 1 in 500,000 on the display. Since one sheet of 1:500,000 cannot be displayed on the screen at once, you can scroll the Location map to the appropriate location in any direction by the mouse operation. Two types of location maps are prepared in the system: those containing basin boundaries and administrative boundaries respectively. Major river systems are illustrated in both types of maps.

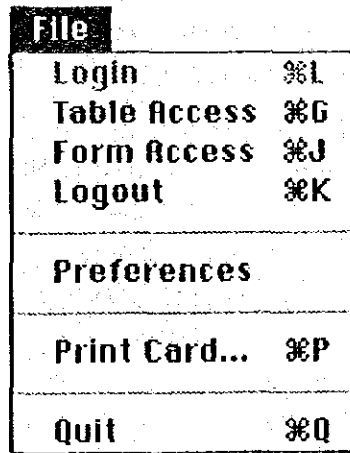
To access to the Station information table of the objective station(s), click on the mark of the objective station and select the *View data* from the *Query* menu. A Table Access

Window will appear on the display in which the information of each selected station is shown in a row.

5.3 Station Information from Menu Bar

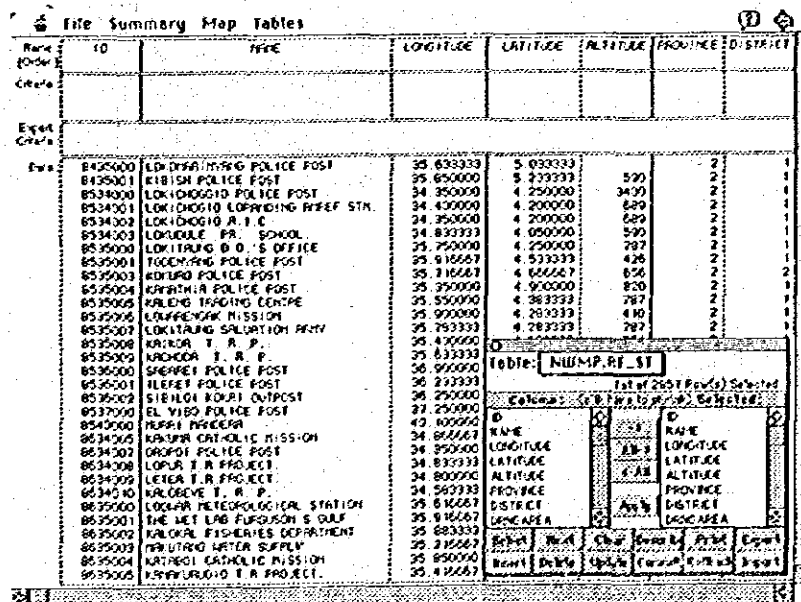
You can access the station information also directly from the *File* menu in the menu bar.

Pull down the *File* menu, and you can find the *Table Access* Command in the menu. Select the *Table Access* Command, then the *Tables* menu will appear on the menu bar and you can select a list of accessible tables.



(Fig.16 File menu)

Select one row of the *Tables* menu that you want to access and the *Table Access Window* of station information appears on the display in which the information of all the stations falling in the selected station type are listed in rows as shown below.



(Fig.17 Table access window :list of all stations)

All the information of station description table are shown in a row for each station.

If you know the station ID, simply find out the ID in the window by scrolling the list. If you do not know exact ID of the station, use a retrieving system.

First click **Clear** button in a control panel open in the right hand side of the screen and all the data in the **Table Access Window** are cleared off. Then enter retrieving conditions in the criteria row shown in the upper part of the window. For instance if you want to find out all the Met.station in Province 2, District 10, enter the province code as 2 and the district code as 10 in the corresponding columns.

Then click the **Select** button in the control panel. All the stations falling the retrieving conditions are listed again in the lower part of the window.

Name (Order)	ID	NAME	LONGITUDE	LATITUDE	ALTITUDE	PROVINCE	DISTRICT
Criteria						2	10
Export Criteria							
Data	8935048	RED OAK FARM, NWYRU	26.500000	833333		2	10
	8935049	RUMPUTI OL, NYSON	26.622687	-116667	2042	2	10
	8935051	OL, JORO, NWYRU	26.650000	-988681	2048	2	10
	8935053	PARIGAT IRRIGATION SCHEME	26.033333	-500000	1148	2	10
	8935057	CHEFYERERAI INTERMEDIATE SCHOOL	26.116667	-116667	1470	2	10
	8935062	THOMPSONS FALLS POOD PARK	26.333333	200000	2304	2	10
	8935063	MURAYGISHU COMPANY LTD.	26.450000	016667	1670	2	10
	8935073	KISITRA R.P. 3 POST	26.266667	-990000	1938	2	10
	8935076	OGILOEI FARM LTD. (B)	26.200000	096667	2066	2	10
	8935080	OL, PELETA SWEET WATER DIP	26.966667	033333	1968	2	10
	9033128	NEM OANDE FARM, NWYRU	33.166667	-266667	2023	2	10
	9035000	MURAO OGILOEI FARM	25.950000	-300000	2320	2	10
	9035006	TABORA FARM CO. LTD.	25.683333	-083333	2755	2	10
	9035008	BITTI RINGI FARM, RONGAI	35.933333			2	10
	9035010	KIPKELIA	35.500000			2	10
	9035011	ELURAGON FOREST STATION	25.850000			2	10
	9035013	HEBERERE ESTATE	25.233333			2	10
	9035017	STRATTON ESTATE	25.283333			2	10
	9035019	MOLO RAILWAY STATION	25.733333			2	10
	9035019	KIERESOI, MOLO	25.543333			2	10
	9035021	MURAO, PUMBI BREEDING	25.990000			2	10
	9035028	MUJI TZURU FOREST STATION	25.700000			2	10
	9035030	MUJI SUMMIT	25.683333			2	10
	9035031	DANSON K. NOUGI SAW MILL, ELBURG.	25.800000			2	10
	9035035	SERAITA FOREST SCHOOL	25.733333			2	10
	9035036	MISS C. BULTON, KENOA	25.550000			2	10
	9035038	MUJI SUMMIT STATION	25.666666			2	10
	9035041	MURAO FARM L. O. 8276	25.883333			2	10
	9035052	D. H. LINDRICE, EQUATOR	25.566666			2	10
	9035054	THIN PEARS, MUJI SUMMIT	25.700000			2	10
	9035055	MURUMBI, MOLO	25.783333			2	10

NAME	LONGITUDE	LATITUDE	ALTITUDE	PROVINCE	DISTRICT	CENGAPEA
MURAO	25.990000			2	10	
MUJI	25.700000			2	10	
MUJI	25.683333			2	10	
MUJI	25.800000			2	10	
MUJI	25.733333			2	10	
MUJI	25.550000			2	10	
MUJI	25.666666			2	10	
MUJI	25.883333			2	10	
MUJI	25.566666			2	10	
MUJI	25.700000			2	10	
MUJI	25.783333			2	10	

(Fig.18 Retrieving window)

5.4 Data Information

To access data information, the procedure is almost the same as that of accessing the station information as described in the previous procedure (in 5.5.3). Pull down *File* menu in the menu bar and hold down the *Form Access* Command in the submenu to open the *Forms* menu. Select one data table name that you want to access. The *Form Access Window* of the objective data table appears on the display.

The list of table names contains the following data table as *Met.Data*, *Daily Rain*, *Monthly Rain*, *Daily WL*, *Disch.Measure*, *Rating C.*, *Daily Disch.*, *Monthly Disch*, *Sediment*, *S.W.Quality*, *G.W.Quality* and *W.Abst*. They are representing meteorological data(*Met.Data*), daily rainfall data(*Daily Rain*), monthly rainfall data(*Monthly Rain*), daily water level data(*Daily WL*), discharge measurement data(*Disch.Measure*), rating curve parameters(*Rating C.*), daily discharge data(*Daily Disch.*), monthly discharge data(*Monthly Disch*), Suspended load measurement data(*Sediment*), Surface water quality data(*S.W.Quality*), Ground water quality data(*G.W.Quality*) and Water abstraction data(*W.Abst*).

Retrieving procedure of the stations you want to see is the same as explained in the previous section.

Some samples of output form of data information are shown below.

The screenshot shows a software window titled "File Summary Map Forms". The main area contains a data entry form for a station named "LOKOPRATIHANG POLICE POST". The form includes the following fields and values:

- ID: 8435000
- NAME: LOKOPRATIHANG POLICE POST
- LONGITUDE: 35.633333
- LATITUDE: 5.033333
- ALTITUDE: (empty)
- PROVINCE: 2
- DISTRICT: 1
- DANGKERA: 202
- SITYPE: 0
- OPEN: 1959
- CLOSE: (empty)
- CALYEARS: 25
- JAN: 176
- FEB: 253
- MAR: 683
- APR: 699
- MAY: 562
- JUN: 154
- JUL: 254

On the right side of the form, there is a small table with the following structure:

1st of 2637 Row(s) Selected				
Select	Row	City	Province	Dist
Row1	1	Opore	Central	10

(Fig.19 Output Form)

5.5 Data Updating

To update, amend or correct the data in the table already stored in the Database, access to the Table Access Window of the objective table type.

Drag the cursor on the field where you want to update and the field will turn blue. You can type in new value in the highlighted field. Then click the Update button in the Control Panel. If the edition is correctly done, click Commit button, or if you cancel the update operation, click the Rollback button.

Name (Order)	ID	NAME	LONGITUDE	LATITUDE	ALTITUDE	PROVINCE	DISTRICT
0136001		LOPELO CONVENT NAIROBI	36.76667	-1.26667	1870	7	1
0136011		THE HILL T. B. MOKO NAIROBI	36.80000	-1.30000	1853	7	1
0136012		PUBLIC WORK DEPARTMENT NAIROBI	36.83333	-1.30000	1758	7	1
0136025		NATIONAL ACAD. LABS. NAIROBI	36.76667	-1.25000	1870	7	1
0136048		NAIROBI NATIONAL HOSPITAL	36.85000	-1.26667	1864	7	1
0136050		STATE HOUSE NAIROBI	36.80000	-1.26667	1922	7	1
0136057		BURKARDI NAIROBI	36.71667	-1.30000	1971	7	1
0136059		PARLIAMENT NAIROBI	36.76667	-1.26667	1968	7	1
0136083		KUNYU EAST SCH. NAIROBI	36.83333	-1.26667	1904	7	1
0136087		NAIROBI EASTLEIGH RESIDENCE	36.85667	-1.26667	1762	7	1
0136093		NAIROBI DRY	36.80000	-1.31667	1820	7	1
0136104		NAIROBI CLOSEBYRN	36.80000	-1.20000	1902	7	1
0136128		NAIROBI RUMOR COFFEE ESTATE LTD.	36.81667	-1.21667	1896	7	1
0136130		NAIROBI WILSON R. RESORT	36.81667	-1.21667	1896	7	1
0136132		EMERALD ROAD NAIROBI	36.76667	-1.26667	1864	7	1
0136133		HUGHES HOUSE, NAIROBI	36.80000	-1.26667	1864	7	1
0136136		C. H. ADAMS NAIROBI	36.80000	-1.26667	1864	7	1
0136143		EASTLEIGH ELECTRONICS, NAIROBI	36.80000	-1.26667	1864	7	1
0136145		MUTHAIGA NAIROBI	36.81667	-1.21667	1896	7	1
0136153		THIKA ROAD HOUSE, NAIROBI	36.85000	-1.26667	1864	7	1
0136156		KILIMANI SCHOOLS, NAIROBI	36.78333	-1.26667	1864	7	1
0136157		NAIROBI AIRPORT, ENKENSIA	36.91667	-1.26667	1864	7	1
0136158		NAIROBI WATER DEVELOPMENT DEPT.	36.83333	-1.26667	1864	7	1
0136159		WATSON'S FARM, NAIROBI	36.85000	-1.26667	1864	7	1
0136171		KEGE, NAIROBI	36.76667	-1.26667	1864	7	1
0136173		KILELESHA, NAIROBI	36.78333	-1.26667	1864	7	1
0136184		NAIROBI CITY HALL	36.81667	-1.21667	1896	7	1
0136185		SPORTS ROAD RESTAURANT NAIROBI	36.80000	-1.26667	1864	7	1
0136182		EMERALD DRIVE NAIROBI	36.73333	-1.26667	1864	7	1
0136199		STRAITHMORE COLLEGE NAIROBI	36.78333	-1.26667	1864	7	1
0136230		NAIROBI CITY COUNCIL WATER DEPT.	36.85000	-1.26667	1864	7	1

(Fig.20 Update)

This operation is allowed only for the System manager or persons who are entrusted by the System manager.

6. Reporting

6.1 Printing

To take out copies of the data you have chosen from the Database, you have two choices, one is to print out on papers and the other is to export data to devices such as a 3.5 inch High Density Floppy Diskette for MAC or IBM-PC.

6.2 Printing in Output Forms

To print out the data you need, Click **Print** button in the **Control Panel** or in **Output forms**.

6.3 Export Data

To export data to diskette or tape or a file, click **Export** button in the **Control Panel**. Then a **Dialog box for export** will appear. Type in the file name you want to create for export and then click **OK** button in the box after selecting an appropriate device.

