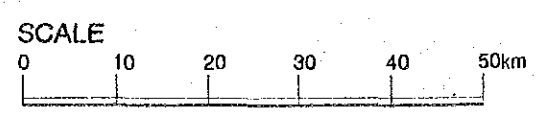


Legend

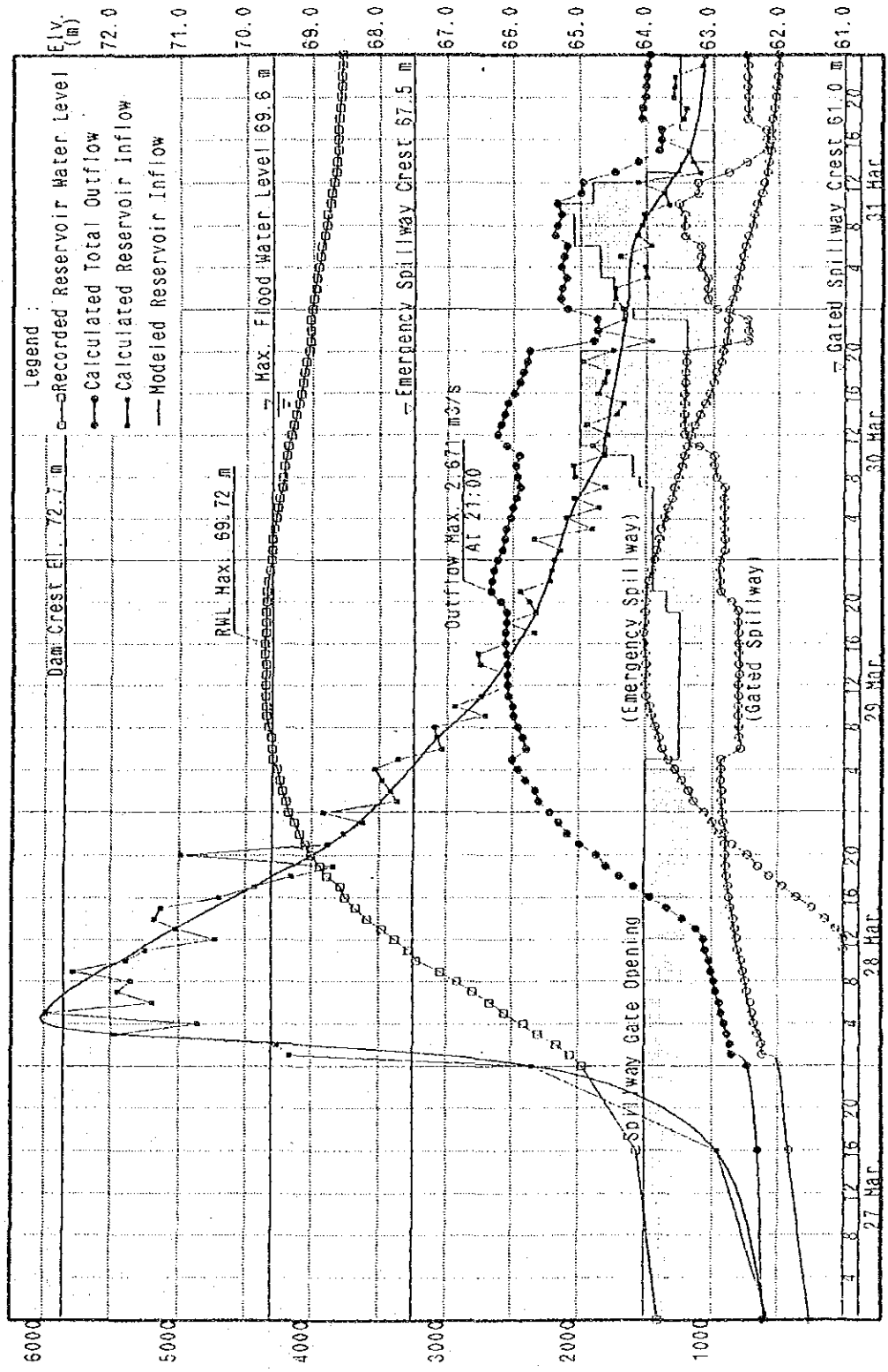
- River
- Dam (Existing)
- Dam (Under Construction)
- Seyhan River Basin
- Sub-Basin
- Province boundary
- District boundary
- District Central Municipality



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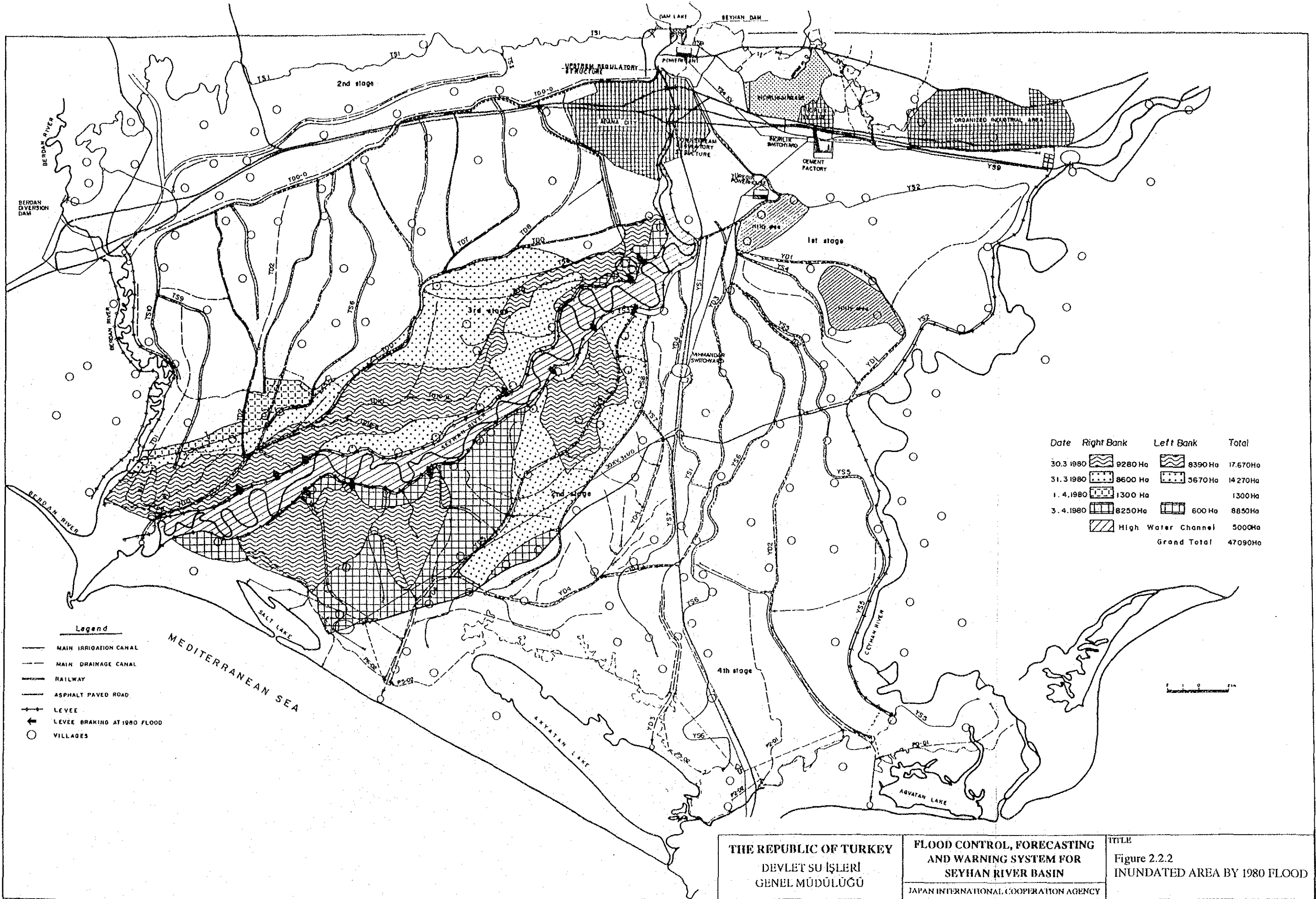
TITLE
Figure 2.1.4
PROVINCIAL AND DISTRICT
BOUNDARIES



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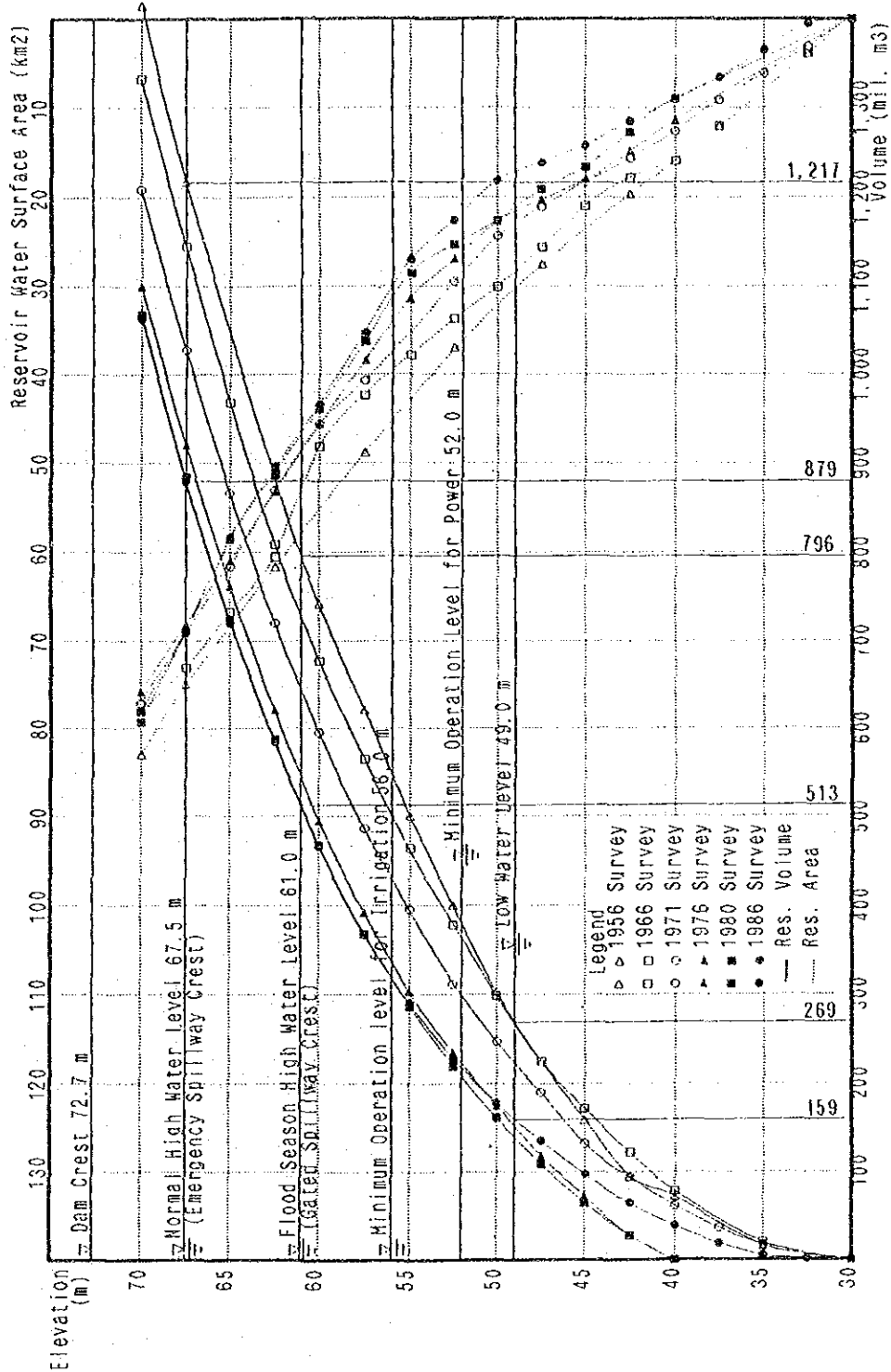
TITLE
Figure 2.2.1
SEYHAN DAM FLOOD ROUTING
FOR 1980 FLOOD



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Figure 2.2.2
INUNDATED AREA BY 1980 FLOOD



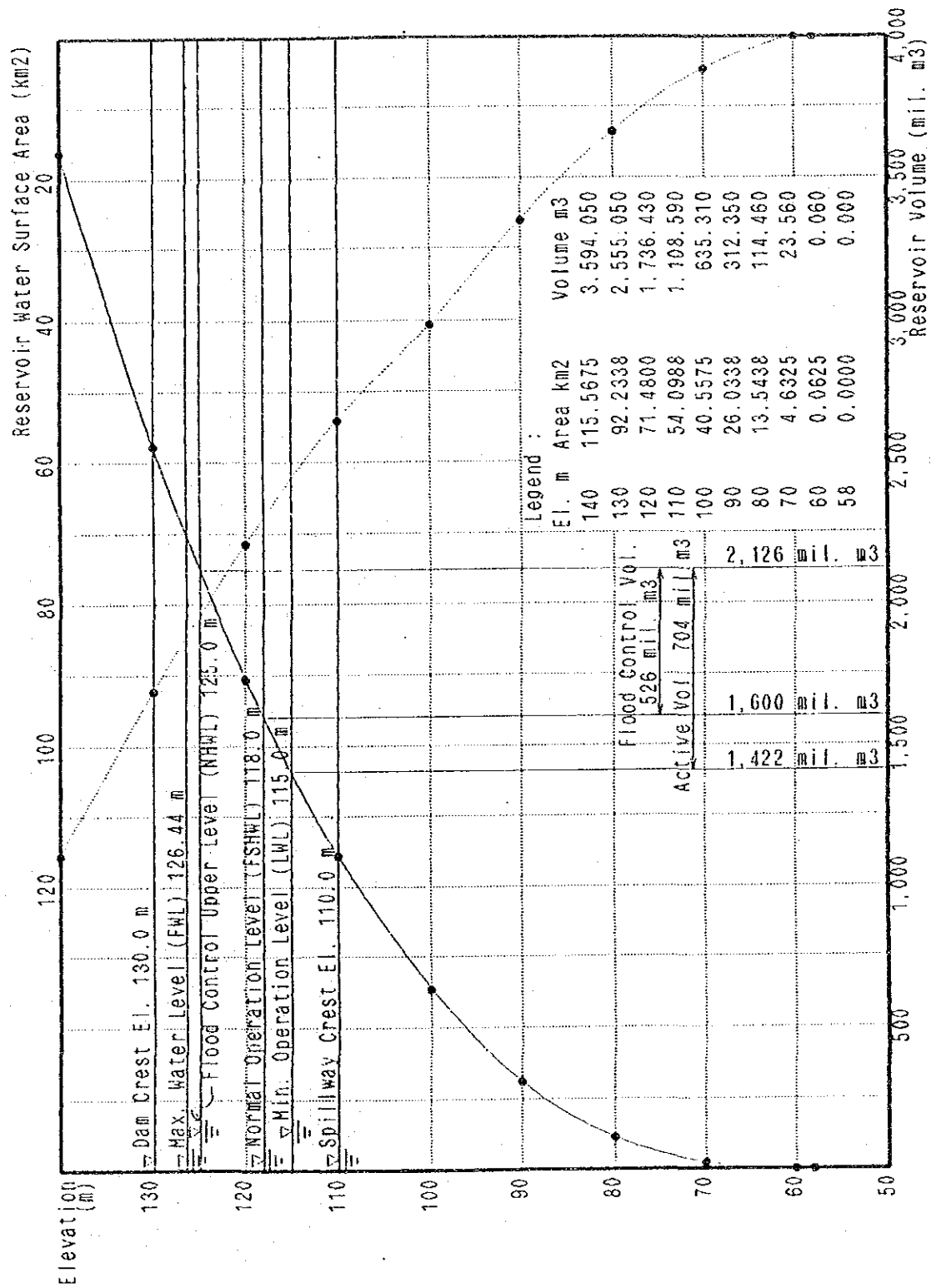
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AND WARNING SYSTEM FOR
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TITLE

Figure 2.23
SEYHAN DAM RESERVOIR



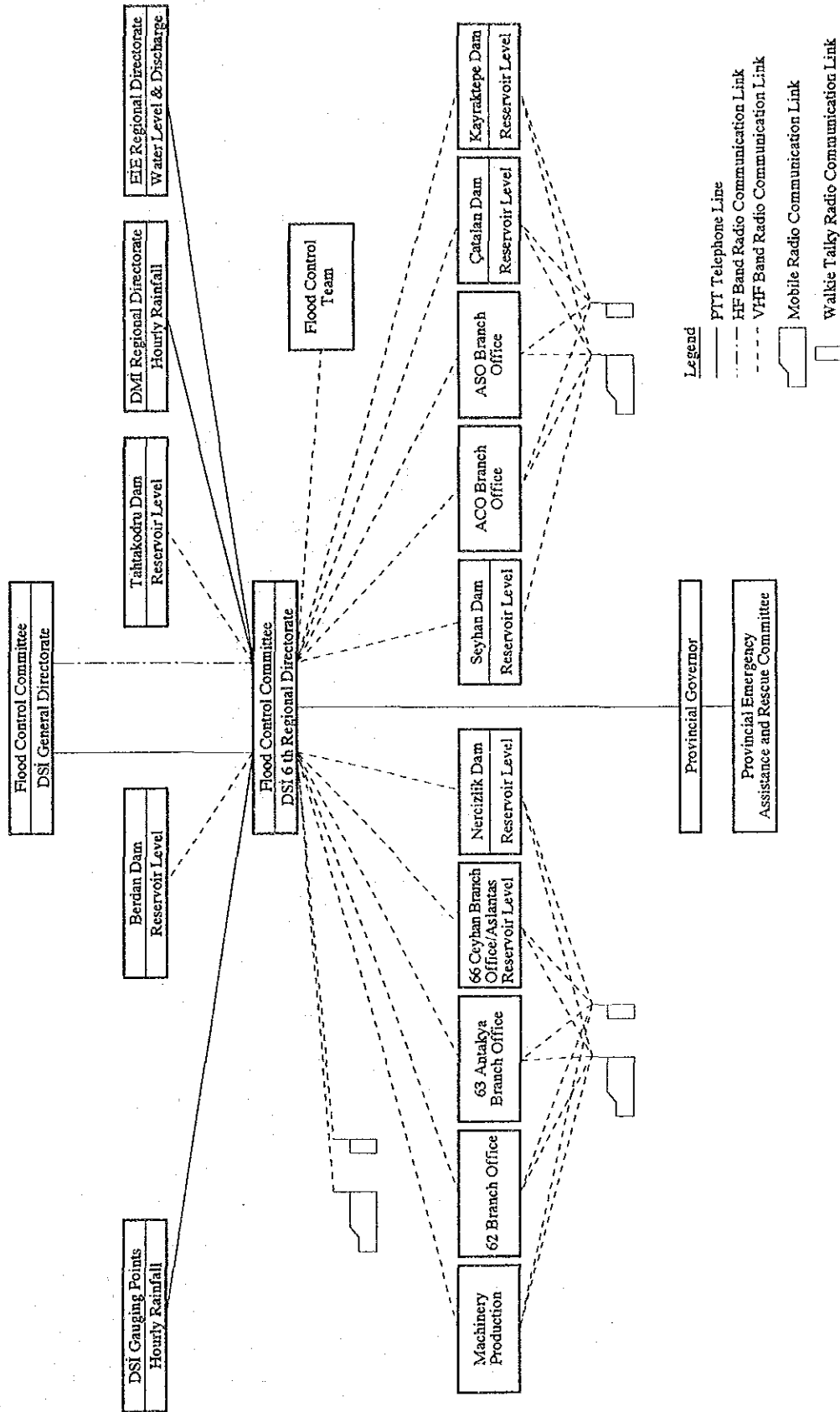
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AND WARNING SYSTEM FOR
SEYHAN RIVER BASIN

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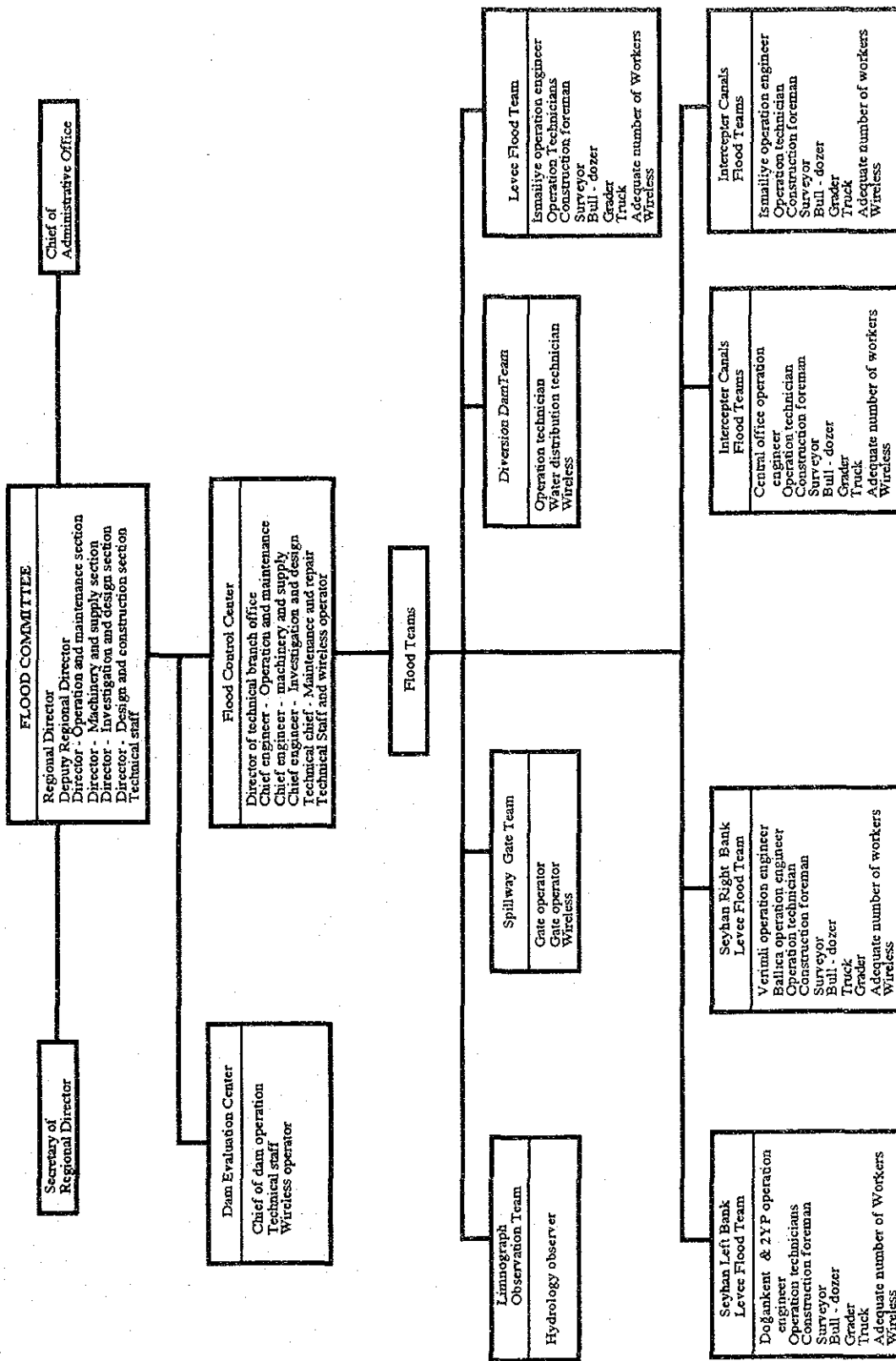
Figure 2.2.4
ÇATALAN DAM RESERVOIR



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TITLE
Figure 2.3.1
OVERALL DATA AND INFORMATION
COMMUNICATION NETWORK
IN PRESENT CONDITION



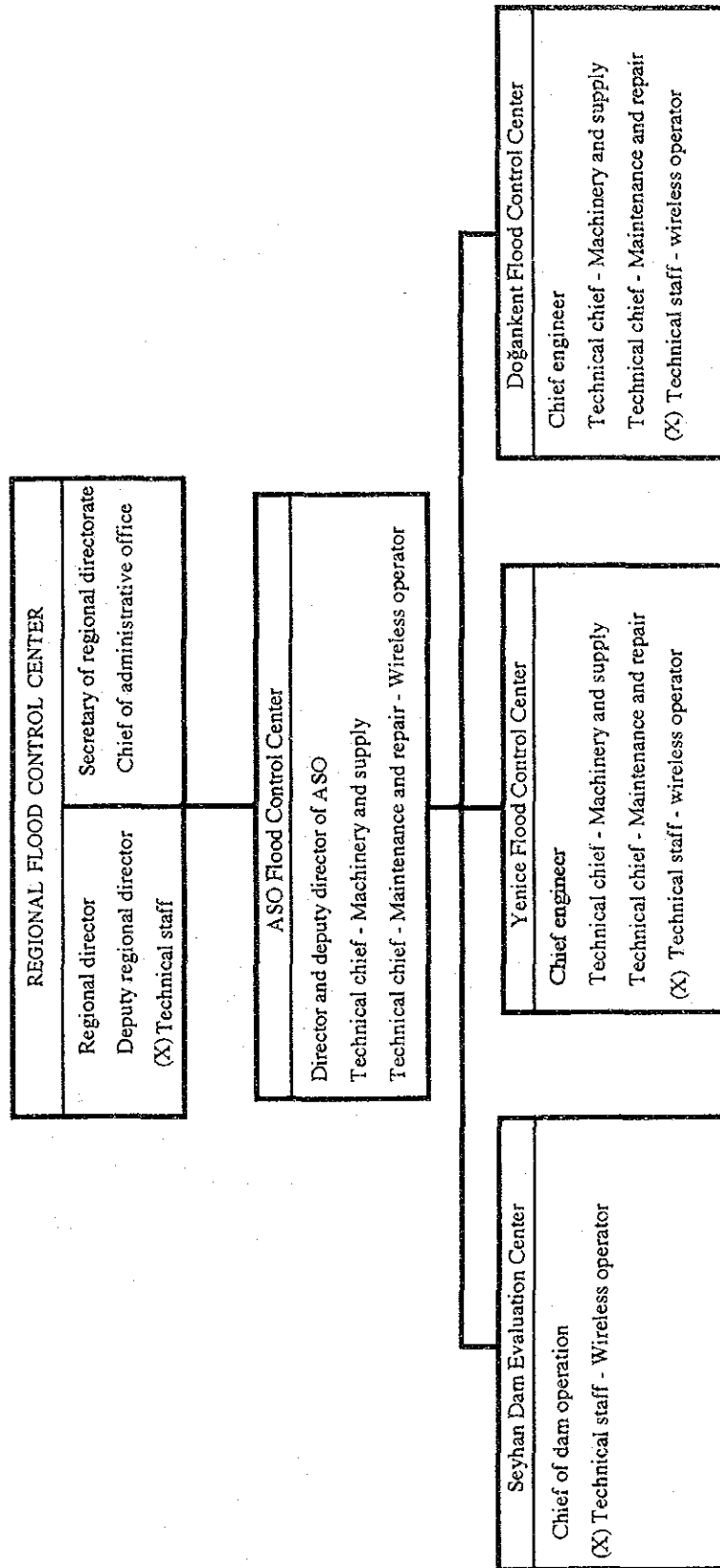
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Figure 2.3.2
CHART OF FLOOD CONTROL COMMITTEE
OF DSI 6TH REGIONAL DIRECTORATE



(X) Adequate number of -----

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Figure 2.3.3
ASO SPECIFIC CHART OF DSI 6 TH
REGIONAL DIRECTORATE

---TH REGIONAL DIRECTORATE OF DSI
SECRETARIAT

VERY URGENT

Time : -----

No. : 564/-----

Subject : Evacuation of villages

Subject to flood

TO THE GOVERNOR'S OFFICE

Water level in-----riverbed is rapidly rising due to
the rain.

In order to prevent life and property losses, villages mentioned
below must be evacuated starting with the closer ones to the levees.

DSi-----th Regional Director

Villages to be evacuated

Right bank

URGENT

LESS URGENT

Left bank

URGENT

LESS URGENT

Distribution

Governor's office of -----city

Information

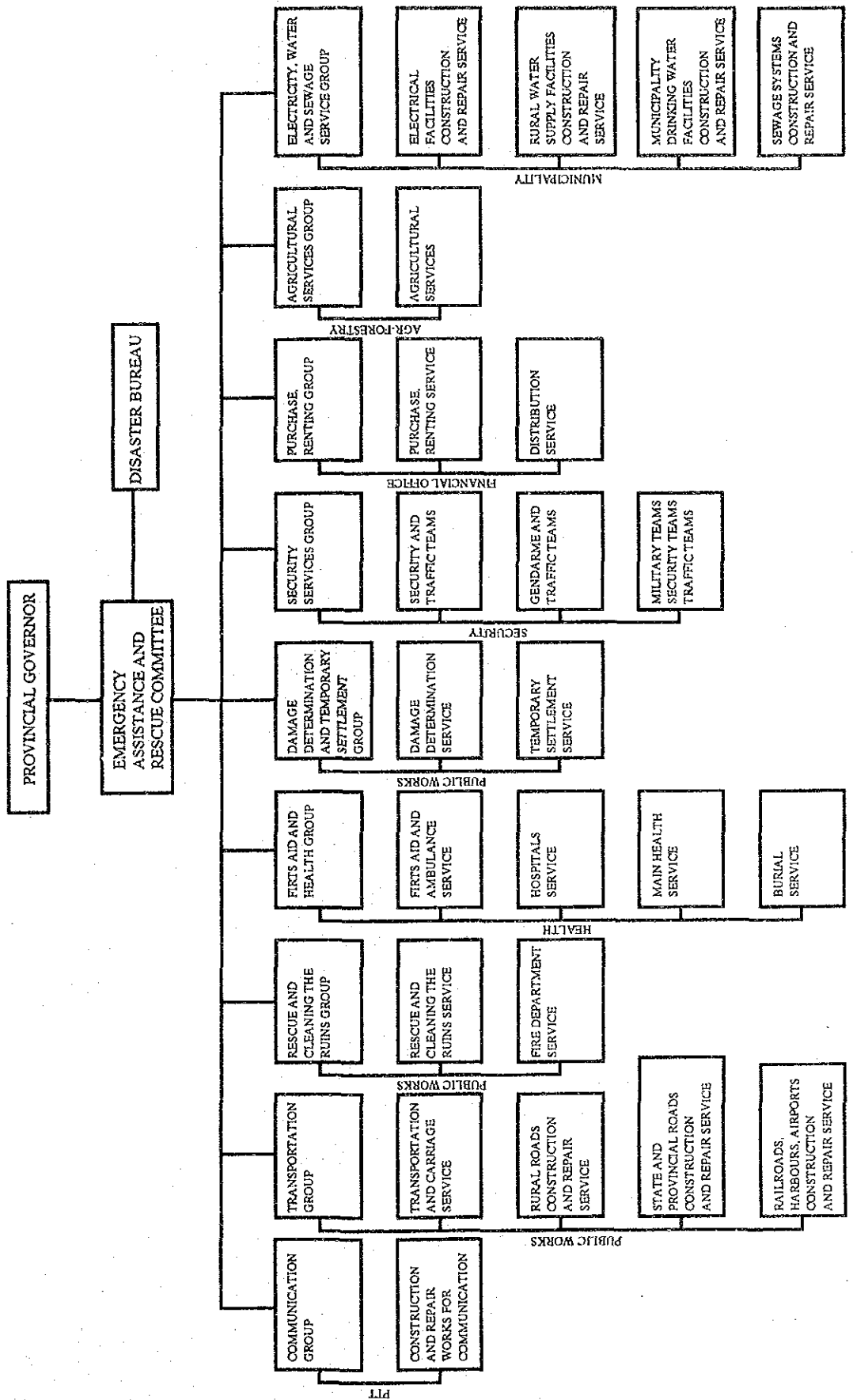
General Directorate of DSI

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FLOOD CONTROL, FORECASTING
AND WARNING SYSTEM FOR
SEYHAN RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

TITLE
Figure 2.3.4
FORM OF EVACUATION MESSAGE
TO GOVERNOR

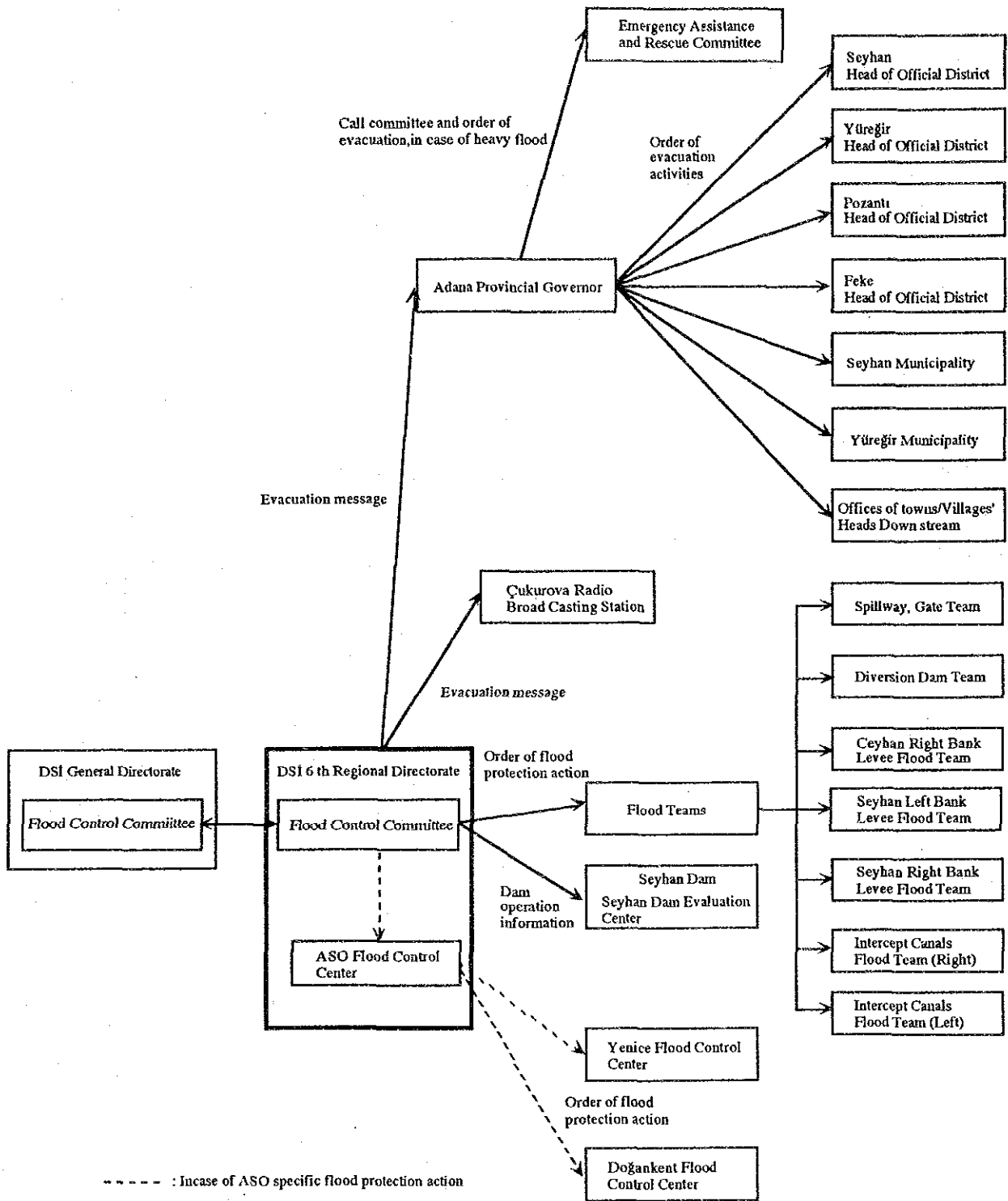


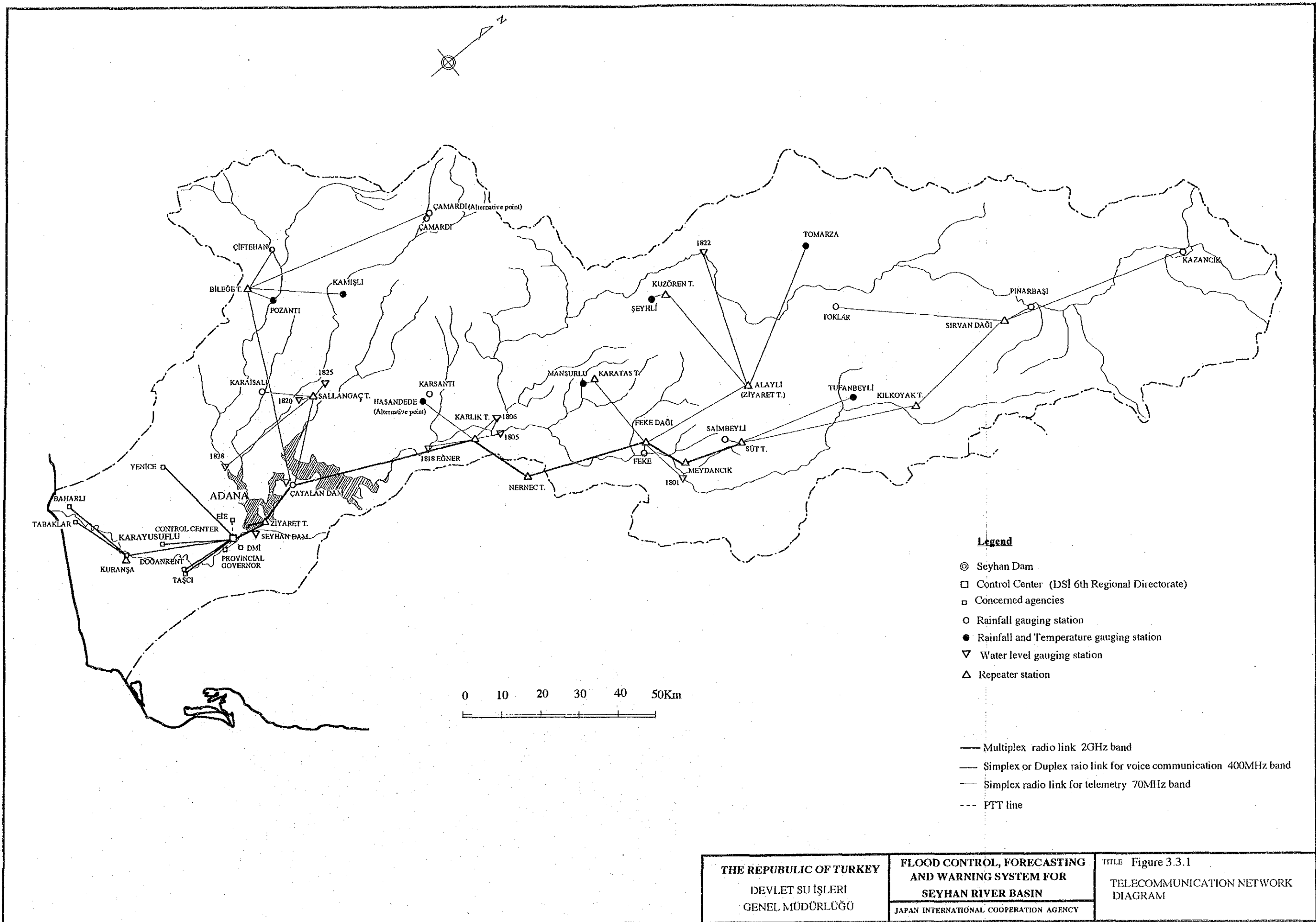
THE REPUBLIC OF TURKEY
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GENEL MÜDÜRLÜĞÜ

FLOOD CONTROL, FORECASTING
AND WARNING SYSTEM FOR
SEYHAN RIVER BASIN

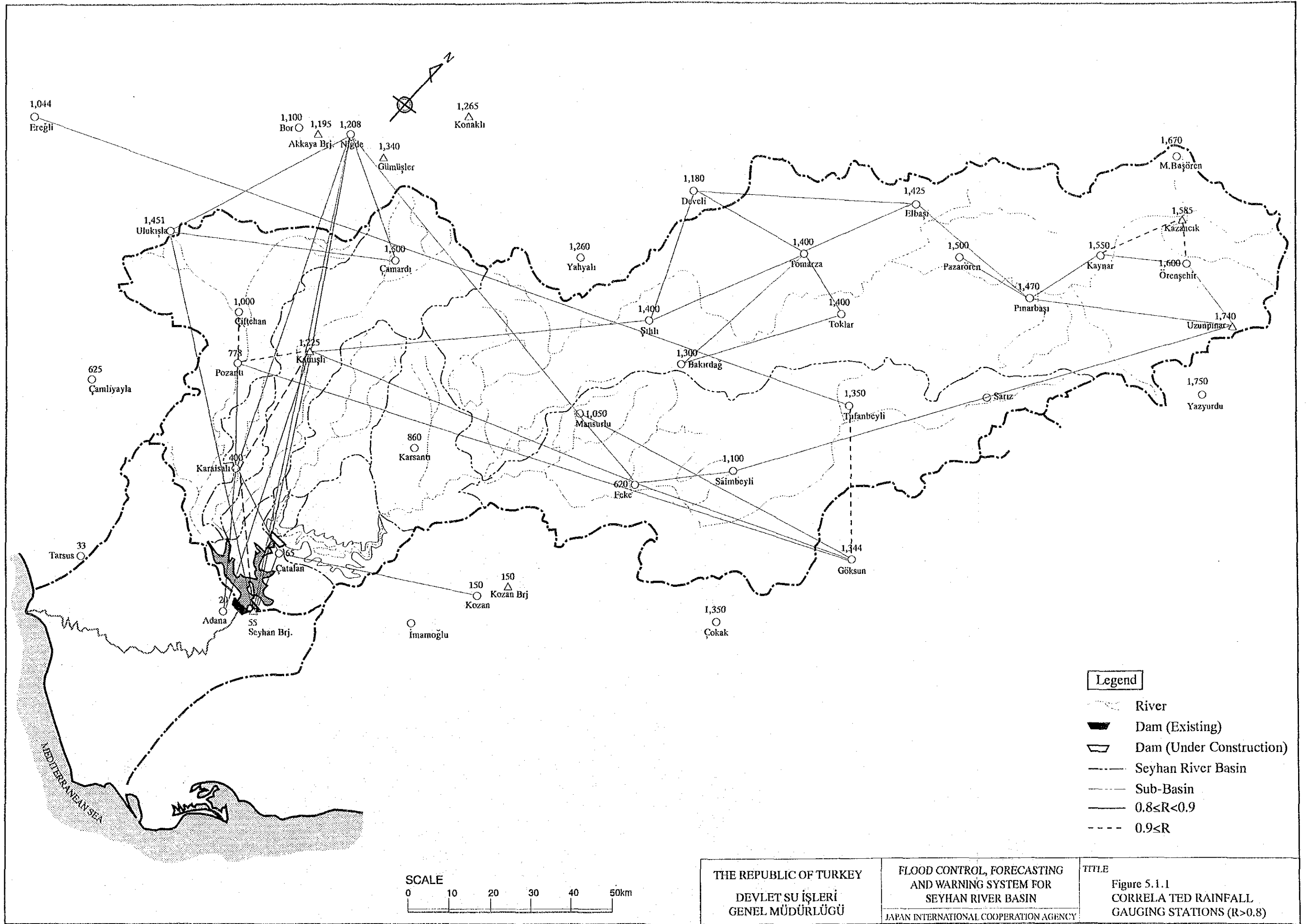
JAPAN INTERNATIONAL COOPERATION AGENCY

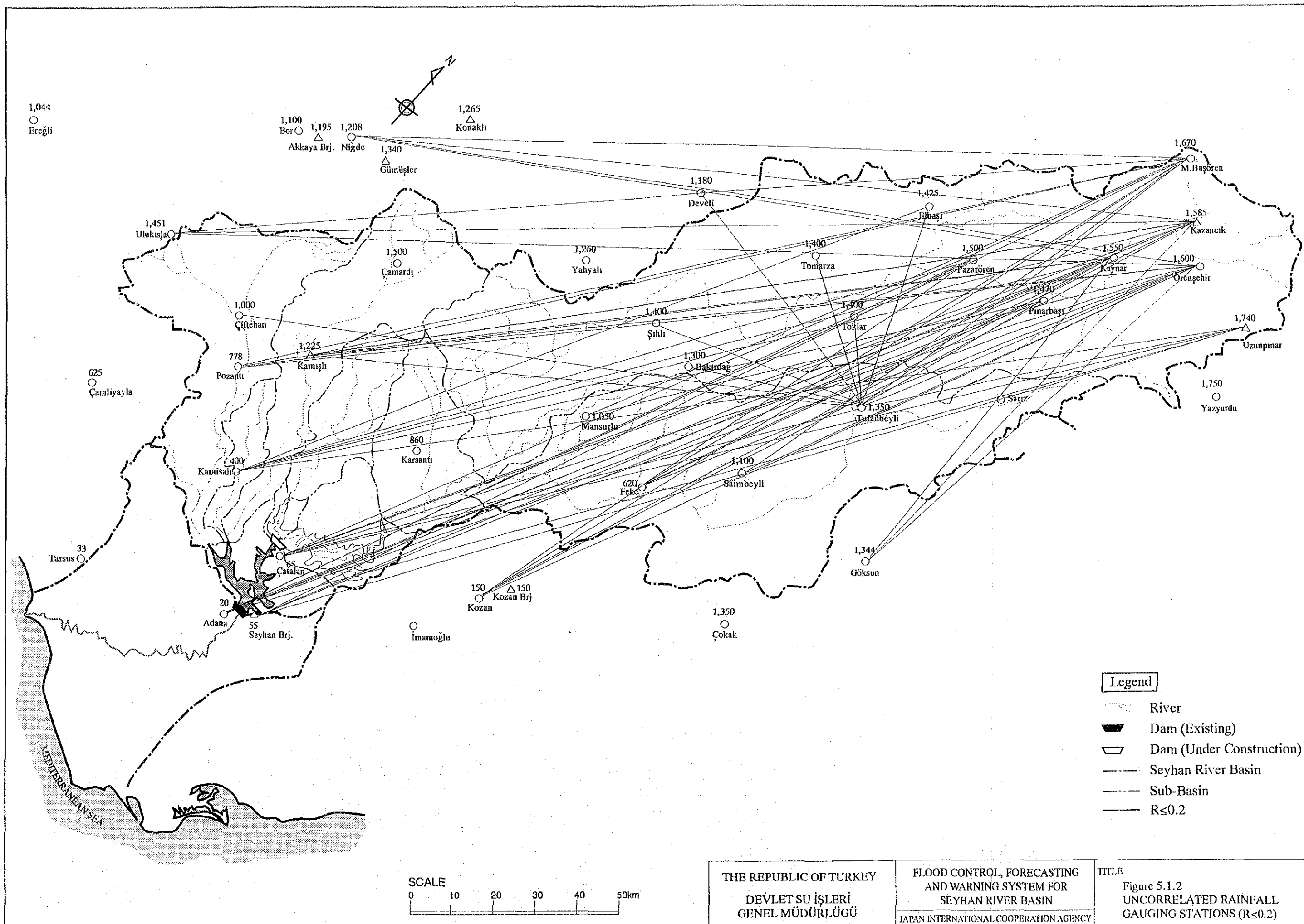
TITLE
Figure 2.3.5
ORGANIZATION CHART OF
EMERGENCY ASSISTANCE &
RESCUE COMMITTEE

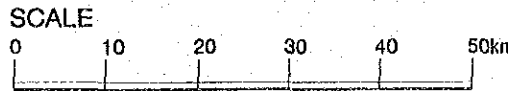
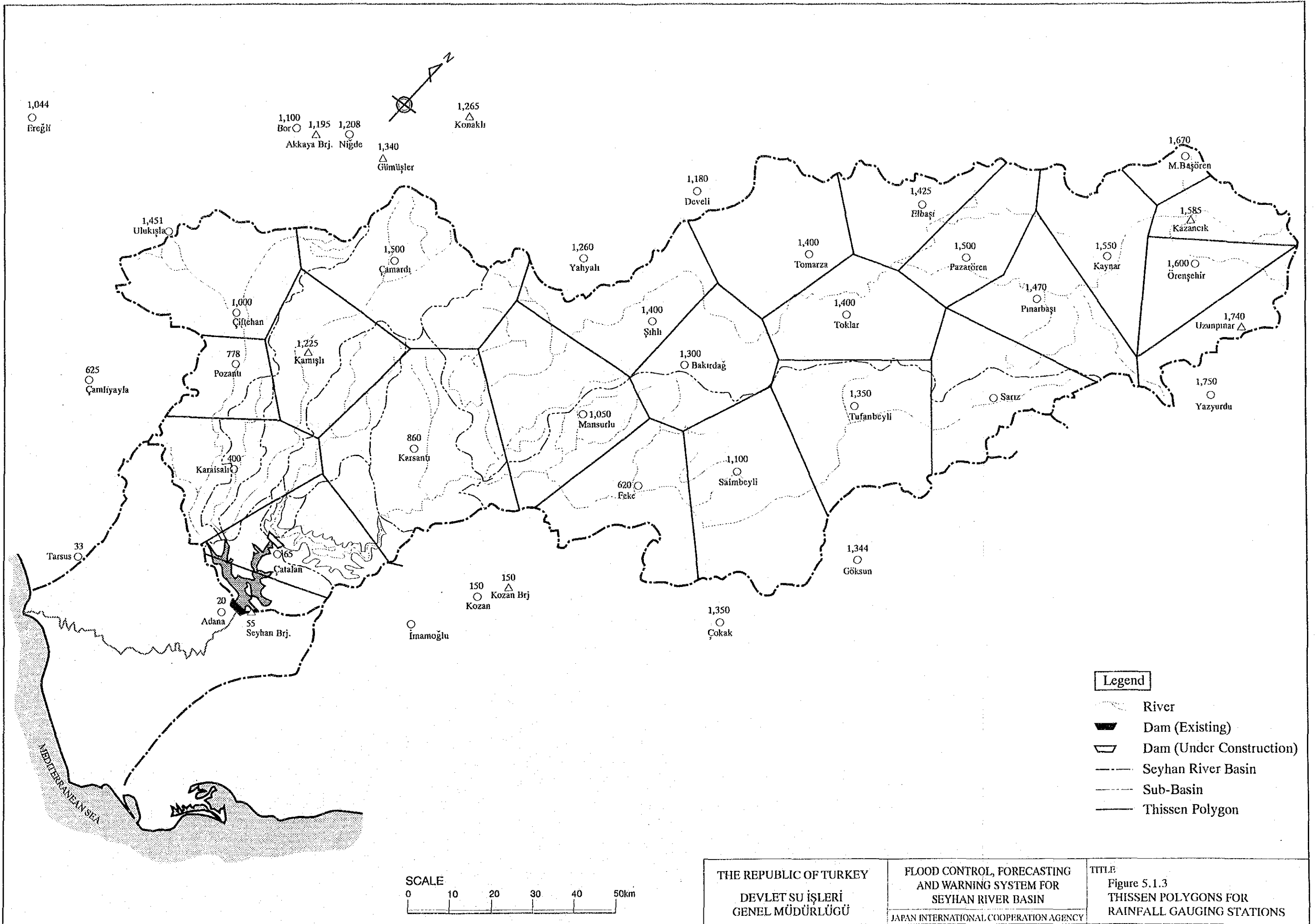




<p>THE REPUBLIC OF TURKEY DEVLET SU İŞLERİ GENEL MÜDÜRLÜĞÜ</p>	<p>FLOOD CONTROL, FORECASTING AND WARNING SYSTEM FOR SEYHAN RIVER BASIN JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE Figure 3.3.1 TELECOMMUNICATION NETWORK DIAGRAM</p>
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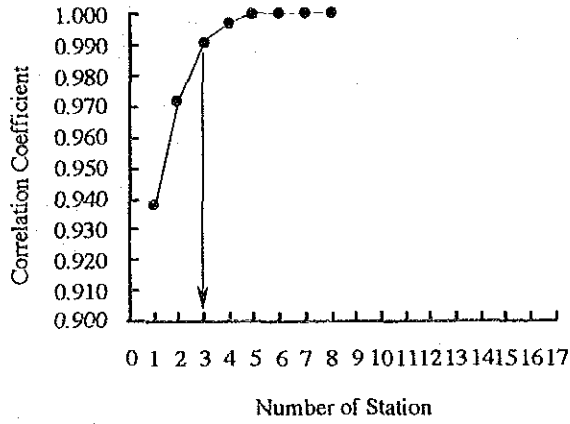




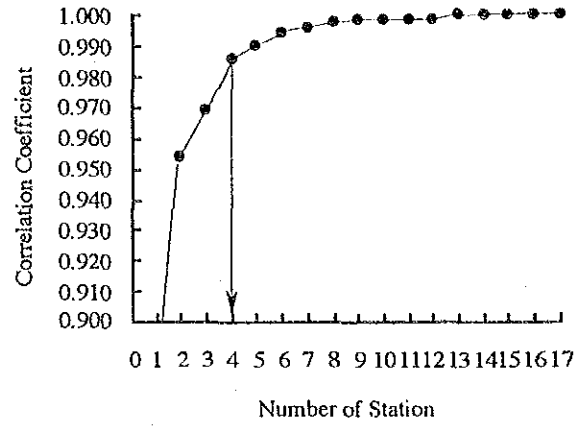


THE REPUBLIC OF TURKEY DEVLET SU İŞLERİ GENEL MÜDÜRLÜĞÜ	FLOOD CONTROL, FORECASTING AND WARNING SYSTEM FOR SEYHAN RIVER BASIN JAPAN INTERNATIONAL COOPERATION AGENCY	TITLE Figure 5.1.3 THISSEN POLYGONS FOR RAINFALL GAUGING STATIONS
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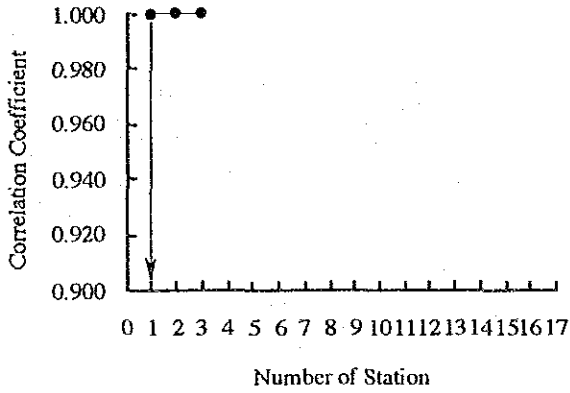
Göksu up to 1805



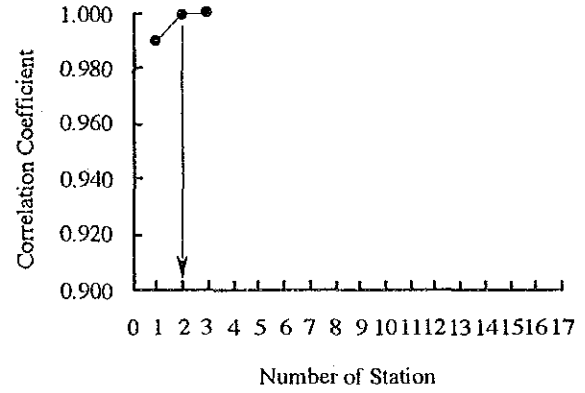
Zamanti up to 1806



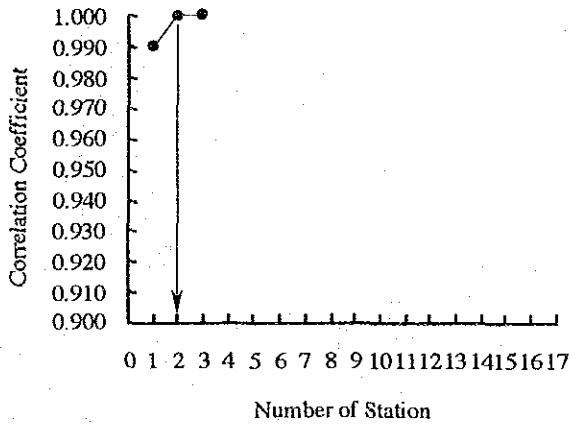
Zamanti-Göksu Joint to Çatalan
(up to Çatalan HWL)



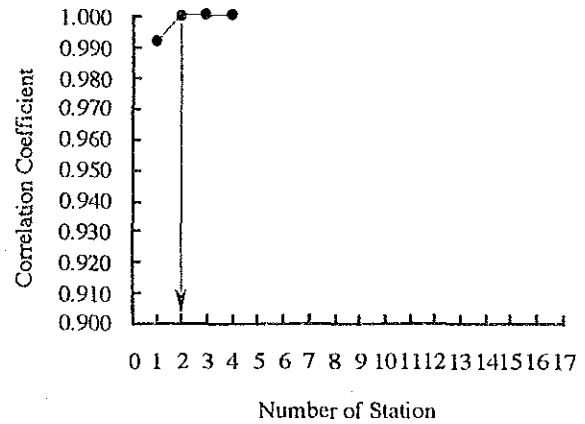
Zamanti-Göksu after Çatalan HWL



Çatalan Brj.-Seyhan Brj.



Eğlence up to 1825



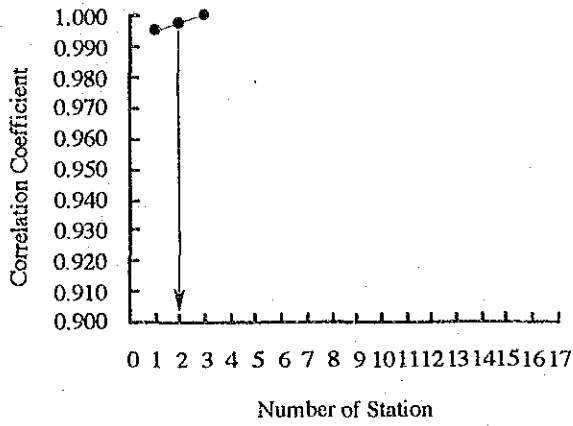
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AND WARNING SYSTEM FOR
SEYHAN RIVER BASIN

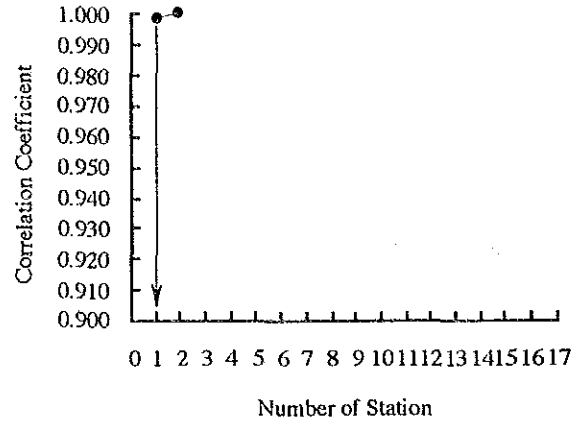
JAPAN INTERNATIONAL COOPERATION AGENCY

TITL.B
Figure 5.1.4
RELATIONSHIP BETWEEN THE NUMBER
OF REPRESENTATIVE STATION AND
CORRELATION COEFFICIENT (1/2)

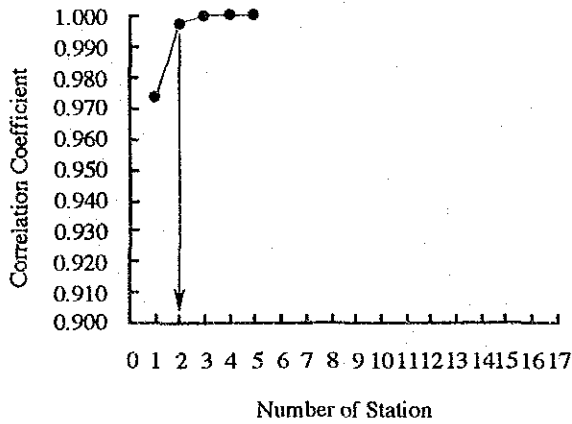
Eğlence up to Catalan HWL



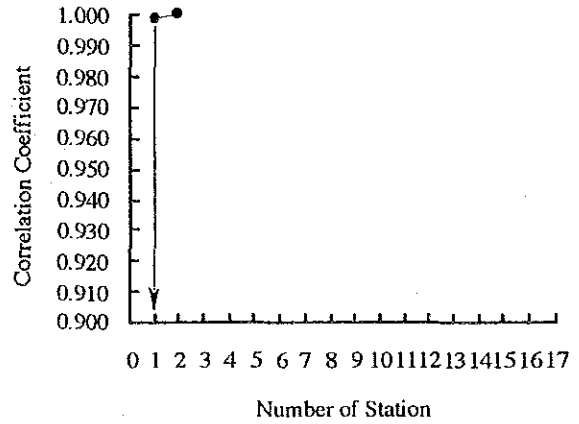
Eğlence after Catalan HWL



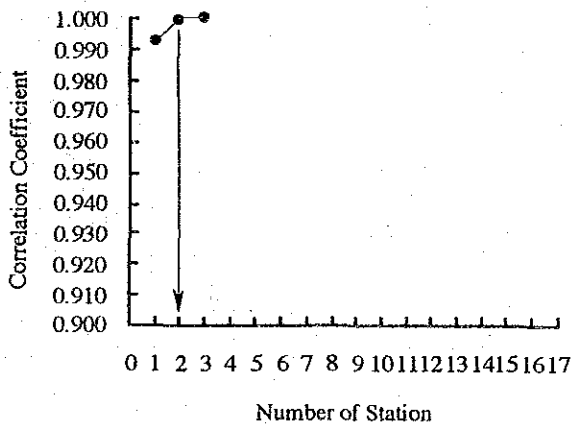
Körkün up to 1820



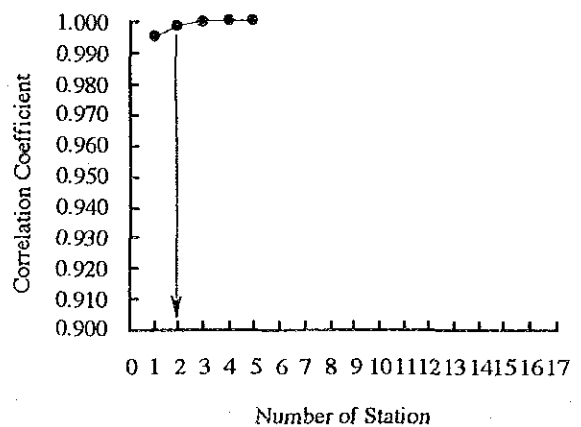
Körkün up to Seyhan HWL



Üçürge



Çakıt up to 1828

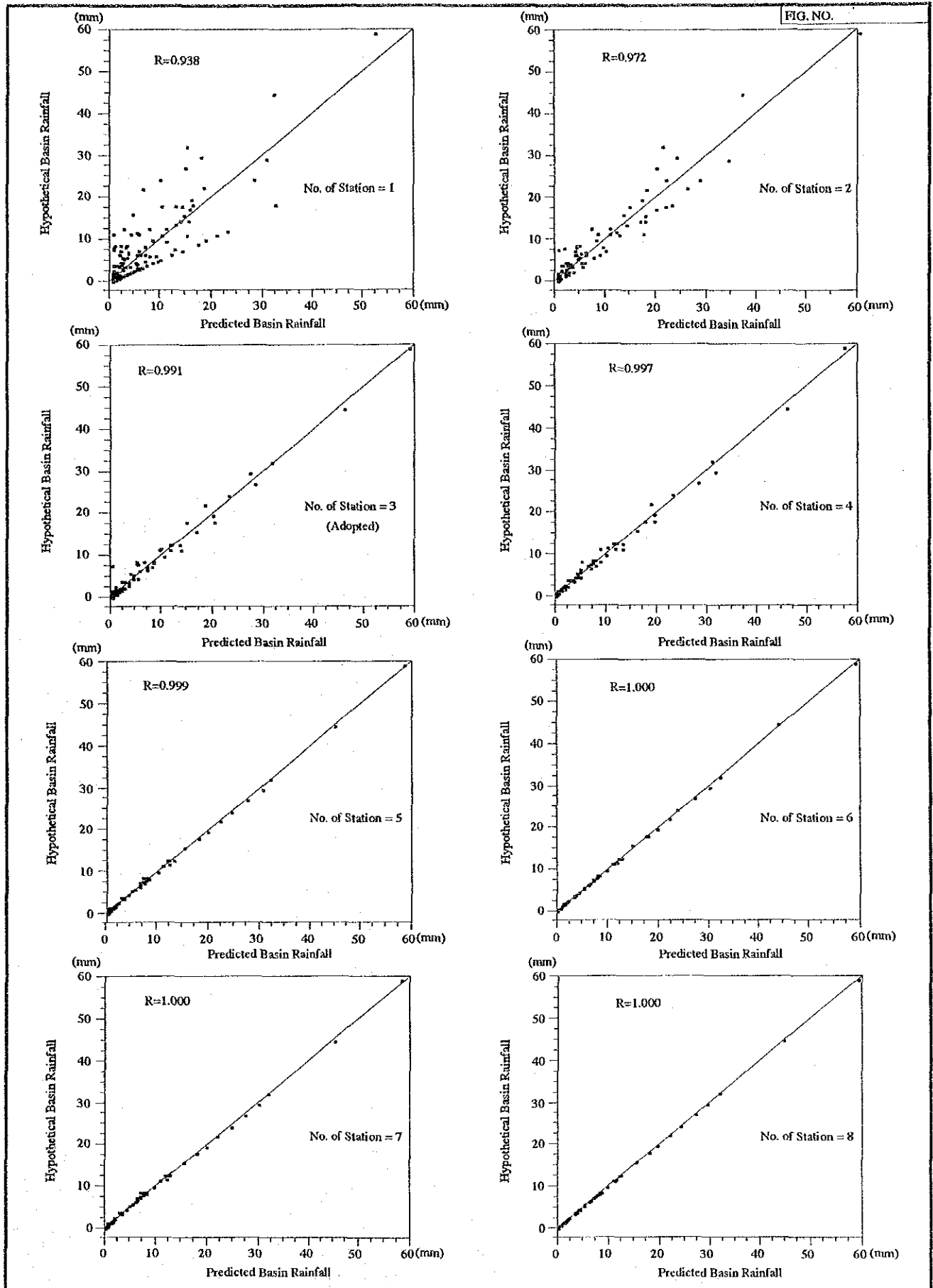


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TITLE
Figure 5.1.4
RELATIONSHIP BETWEEN THE NUMBER
OF REPRESENTATIVE STATION AND
CORRELATION COEFFICIENT (2/2)

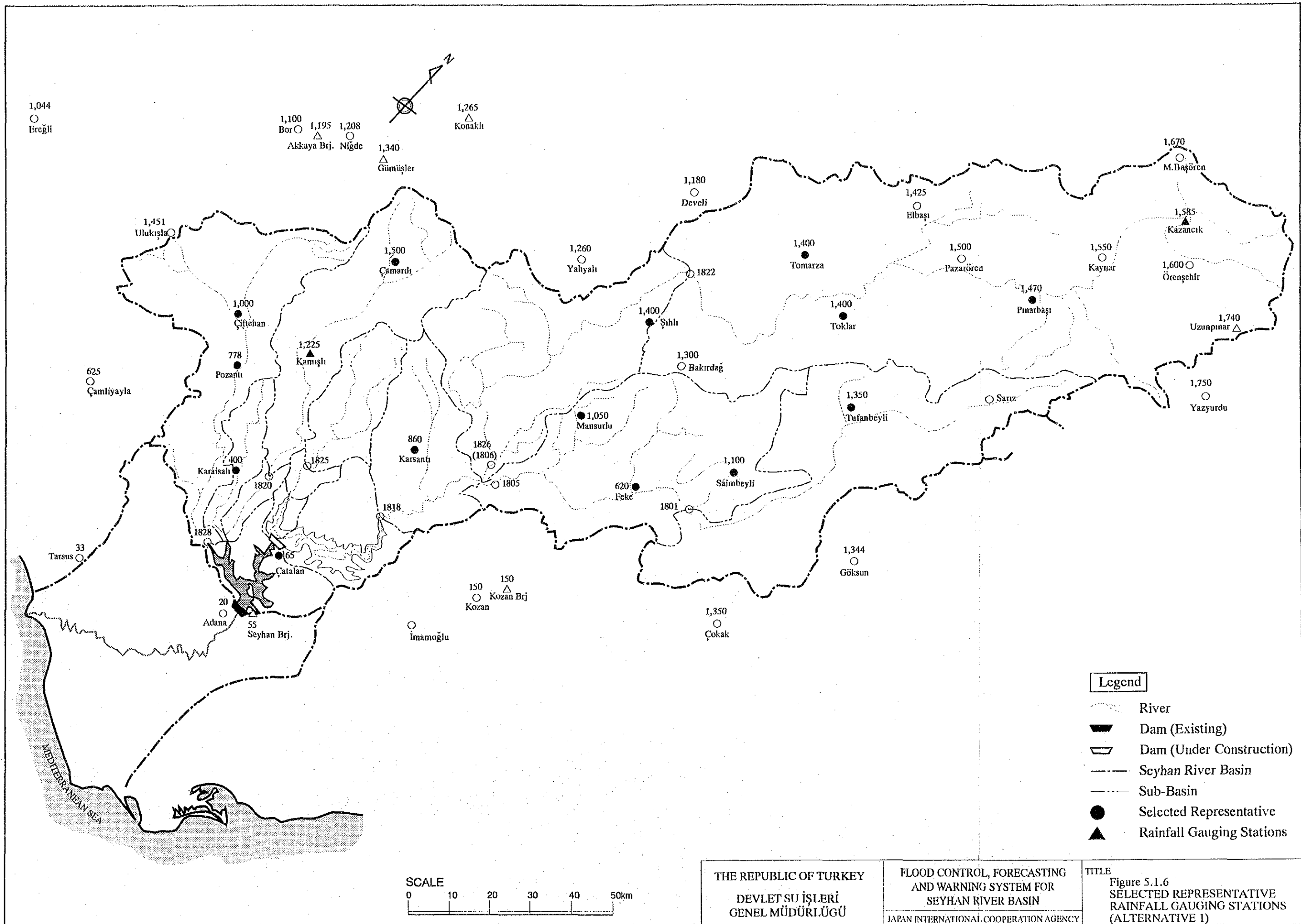


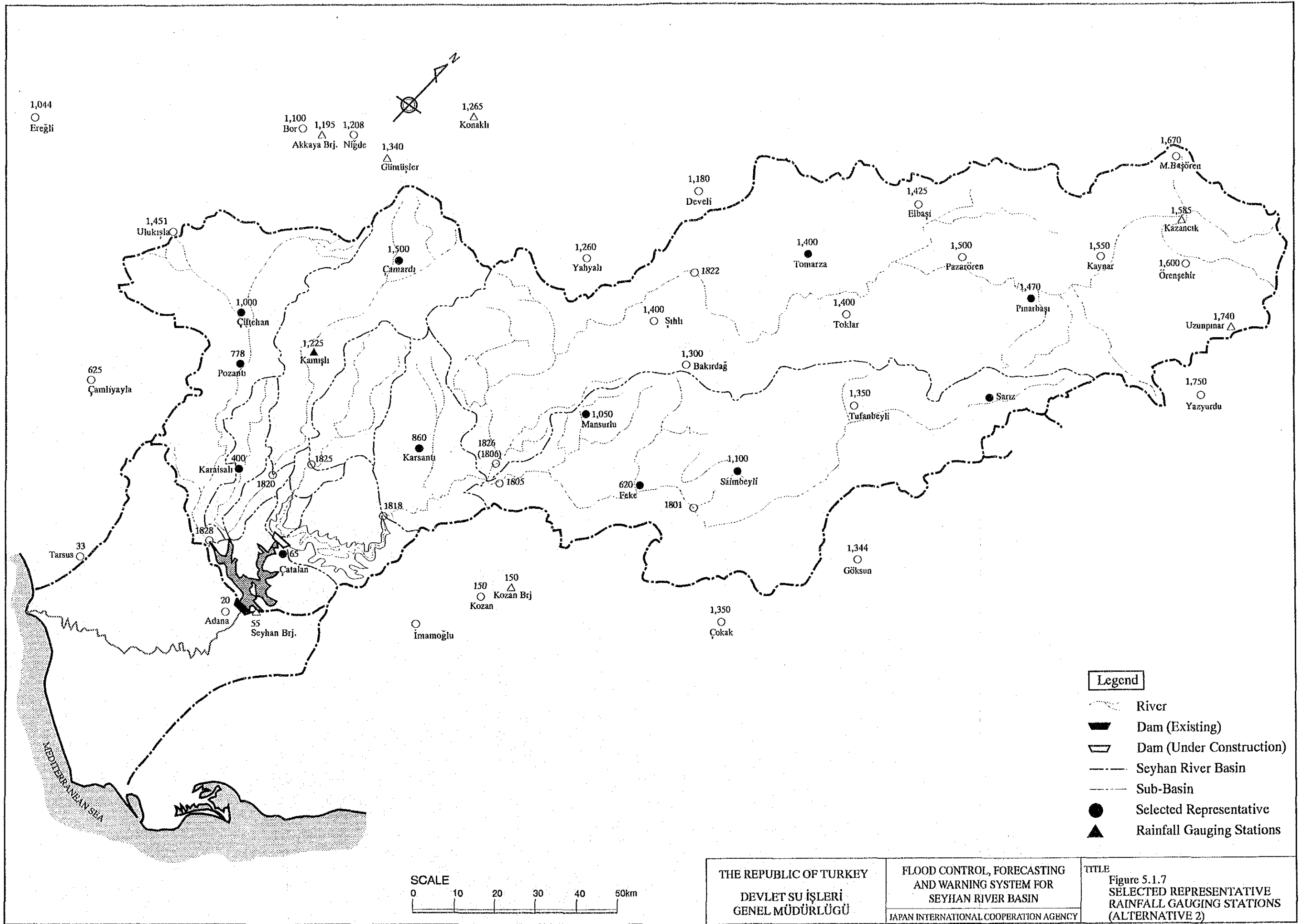
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FLOOD CONTROL, FORECASTING
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TITLE
Figure 5.1.5
SCATTERGRAM OF HYPOTHETICAL
AND PREDICTED BASIN RAINFALL
(GÖKSU SUBBASIN UP TO 1805)





1,044
○ Ereğli

1,100 Bor ○
1,195 Akkaya Brj. ▲
1,208 Nigde ○

1,265
▲ Konaklı

1,340
▲ Gümüşler

1,180
○ Develi

1,425
○ Elbaşı

1,670
○ M. Başören

1,585
▲ Kazancı

1,451
○ Ulukışla

1,500
● Çamardı

1,260
○ Yahyalı

1,400
● Tomarza

1,500
○ Pazarören

1,550
○ Kaynar

1,600
○ Örenşehir

1,000
● Çiftçhan

1,400
○ Sıhlı

1,400
○ Toklar

1,470
● Pınarbaşı

1,740
▲ Uzunpınar

625
○ Çamliyayla

1,225
▲ Kamışlı

1,300
○ Bakırdağ

1,750
○ Yazırdu

778
● Pozantı

1,050
● Mansurlu

1,350
○ Tufanbeyli

● Sarız

400
● Karaisalı

860
● Karsantı

1,100
● Saimbeyli

1820
○ Karaisalı

1826 (1806)
○ Karsantı

620
● Fekke

1801
○ Saimbeyli

1828
○ Tarsus

1825
○ Karaisalı

1818
○ Karsantı

1,344
○ Göksun

1828
○ Tarsus

165
● Çatalan

150
○ Kozan Brj.
150
○ Kozan

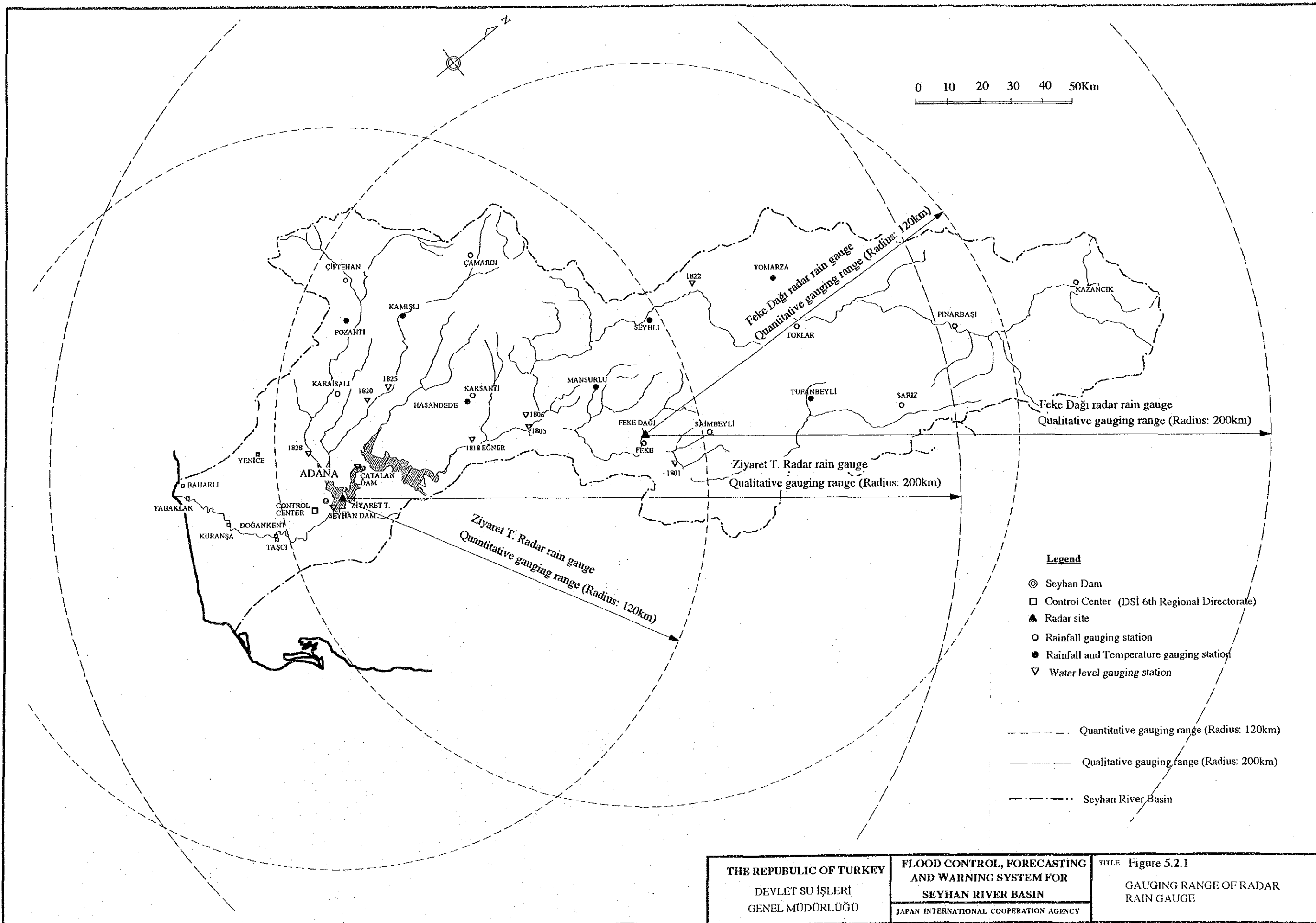
1,350
○ Çokak

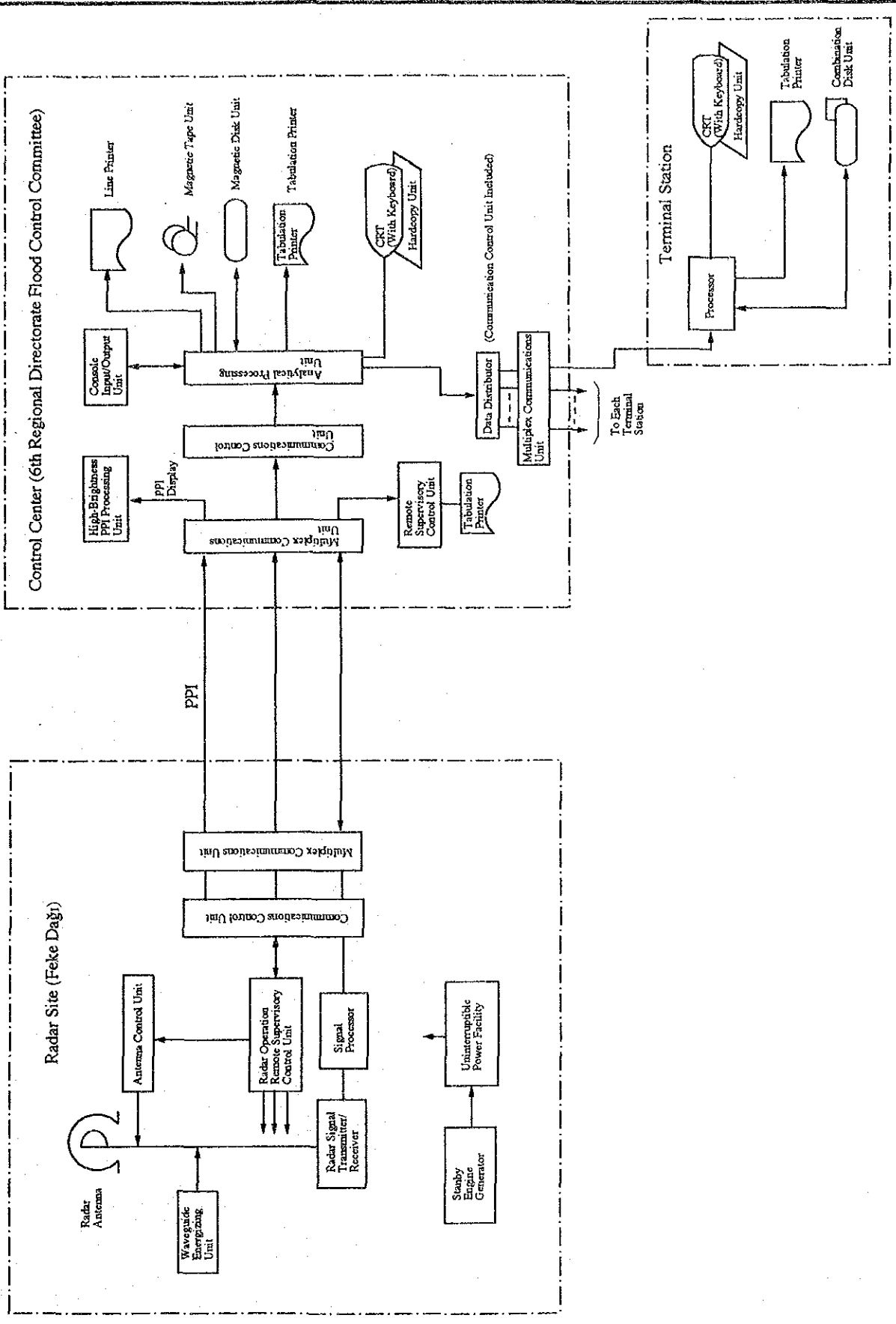
20
○ Adana

55
● Seyhan Brj.

○ İmamoğlu

MEDITERRANEAN SEA

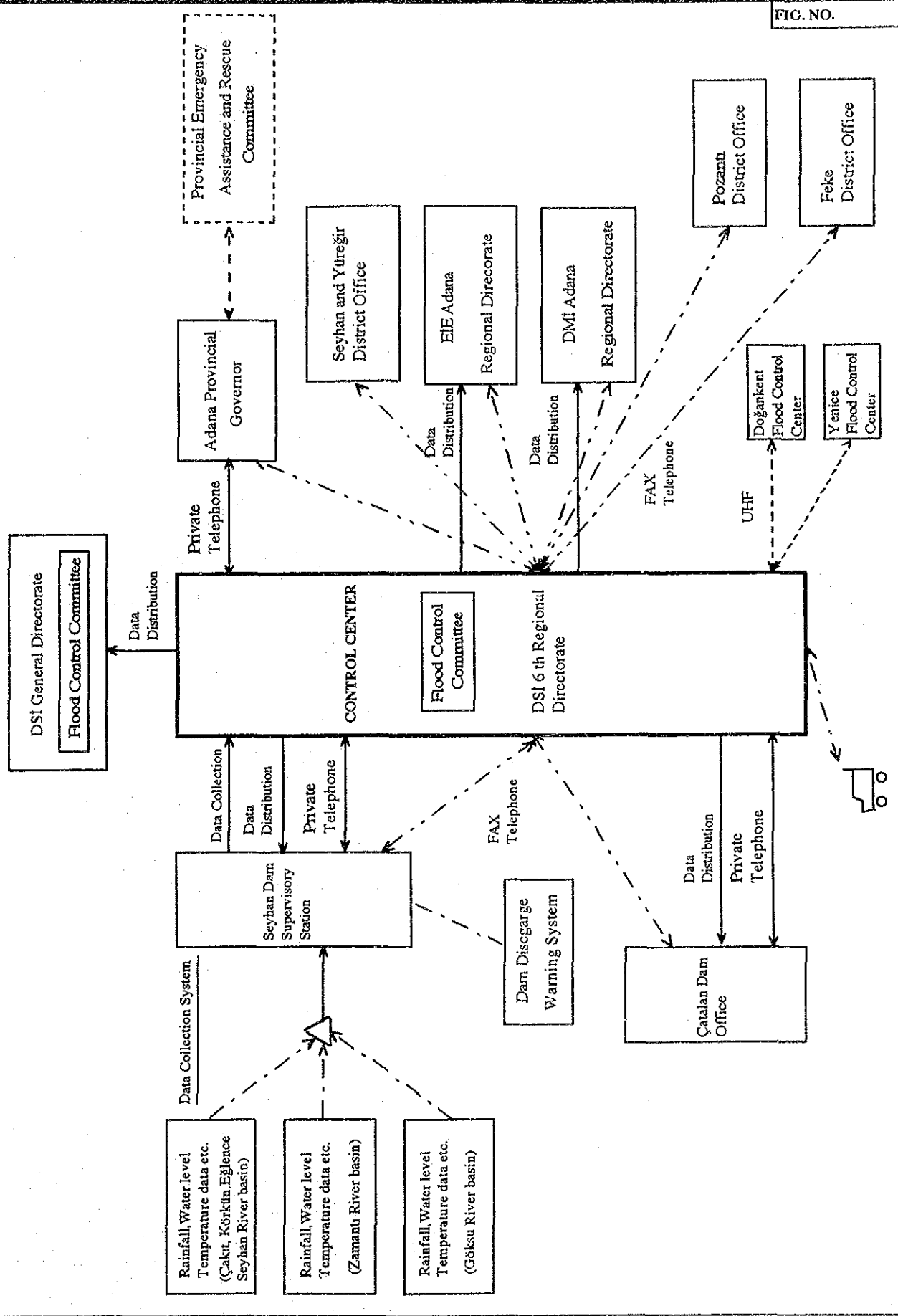




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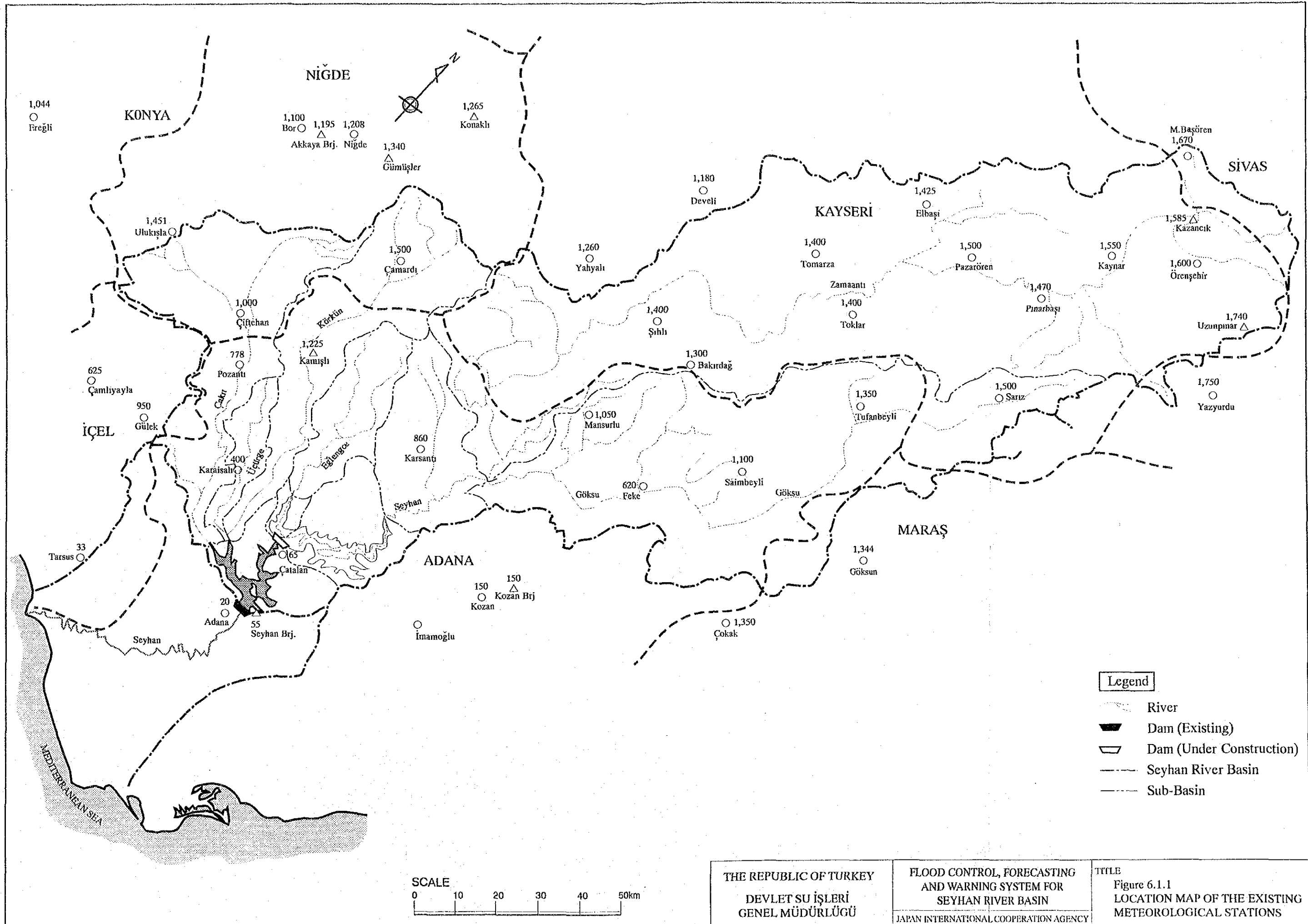
TITLE Figure 5.2.2
TYPICAL SYSTEM CONFIGURATION OF
RADAR RAIN GAUGES

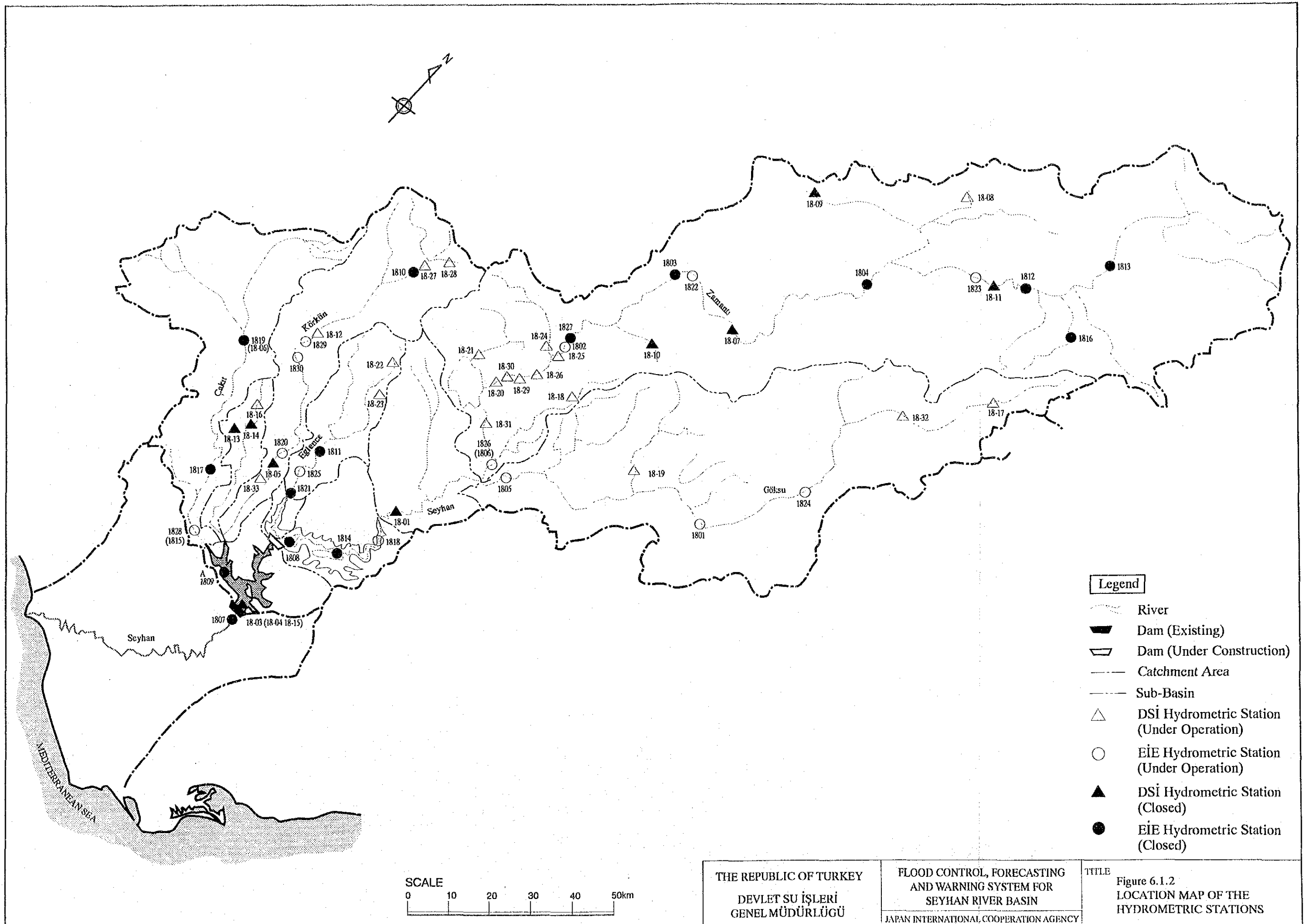


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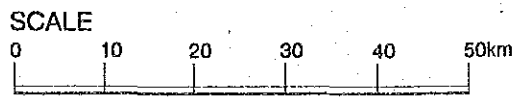
TITLE
Figure 5.2.3
BASIC PLAN OF DATA COLLECTION AND
TRANSMISSION



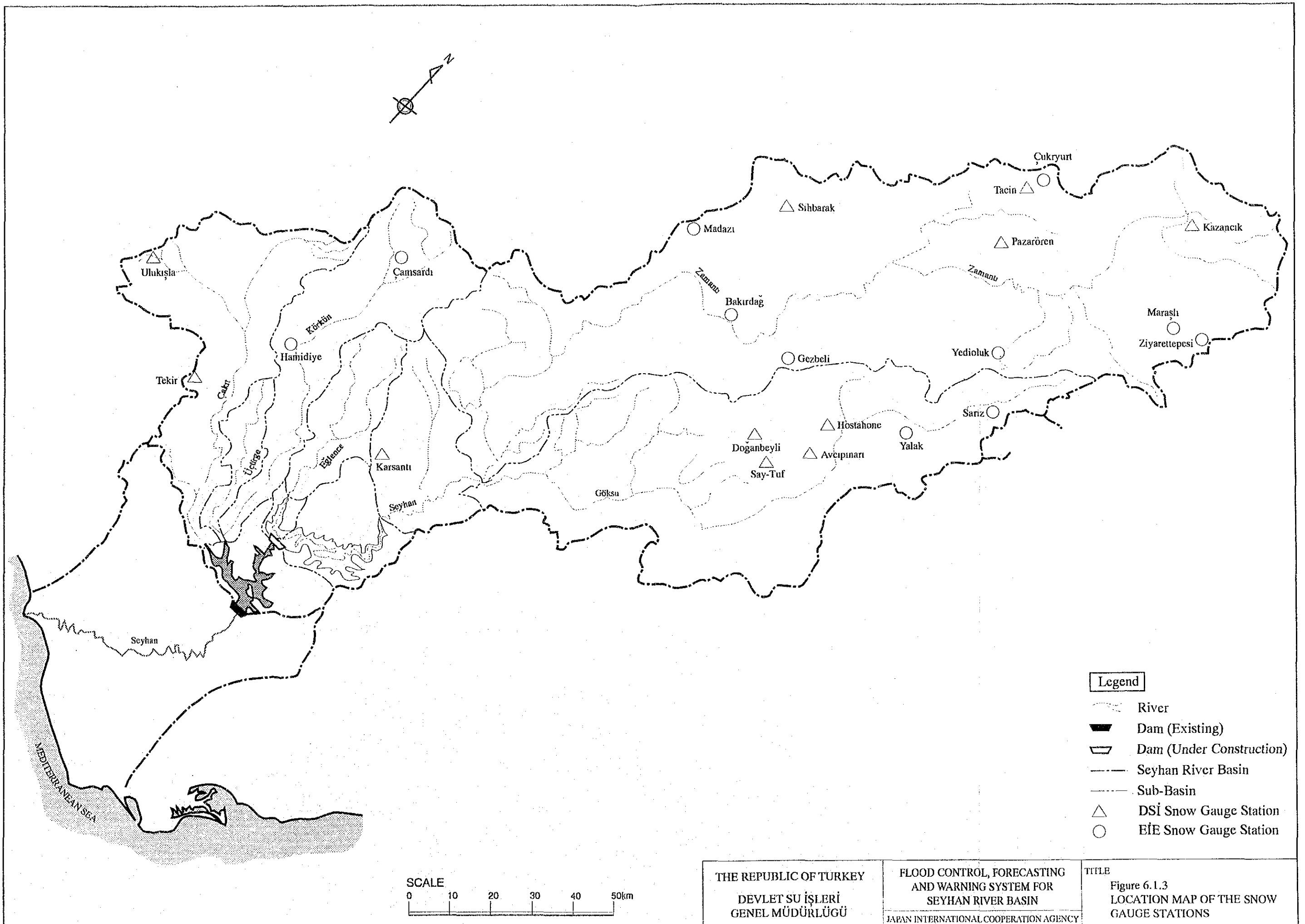


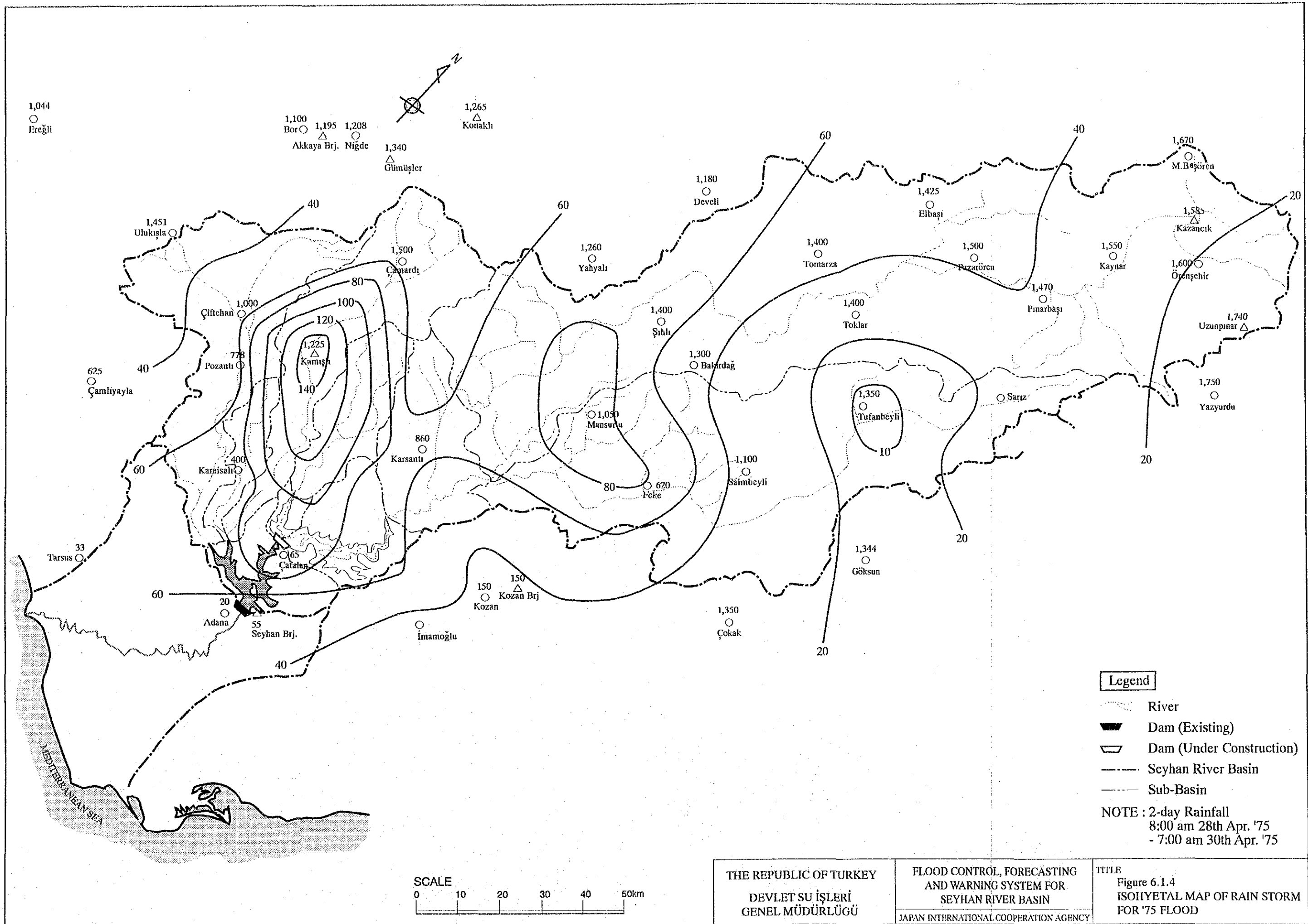
Legend

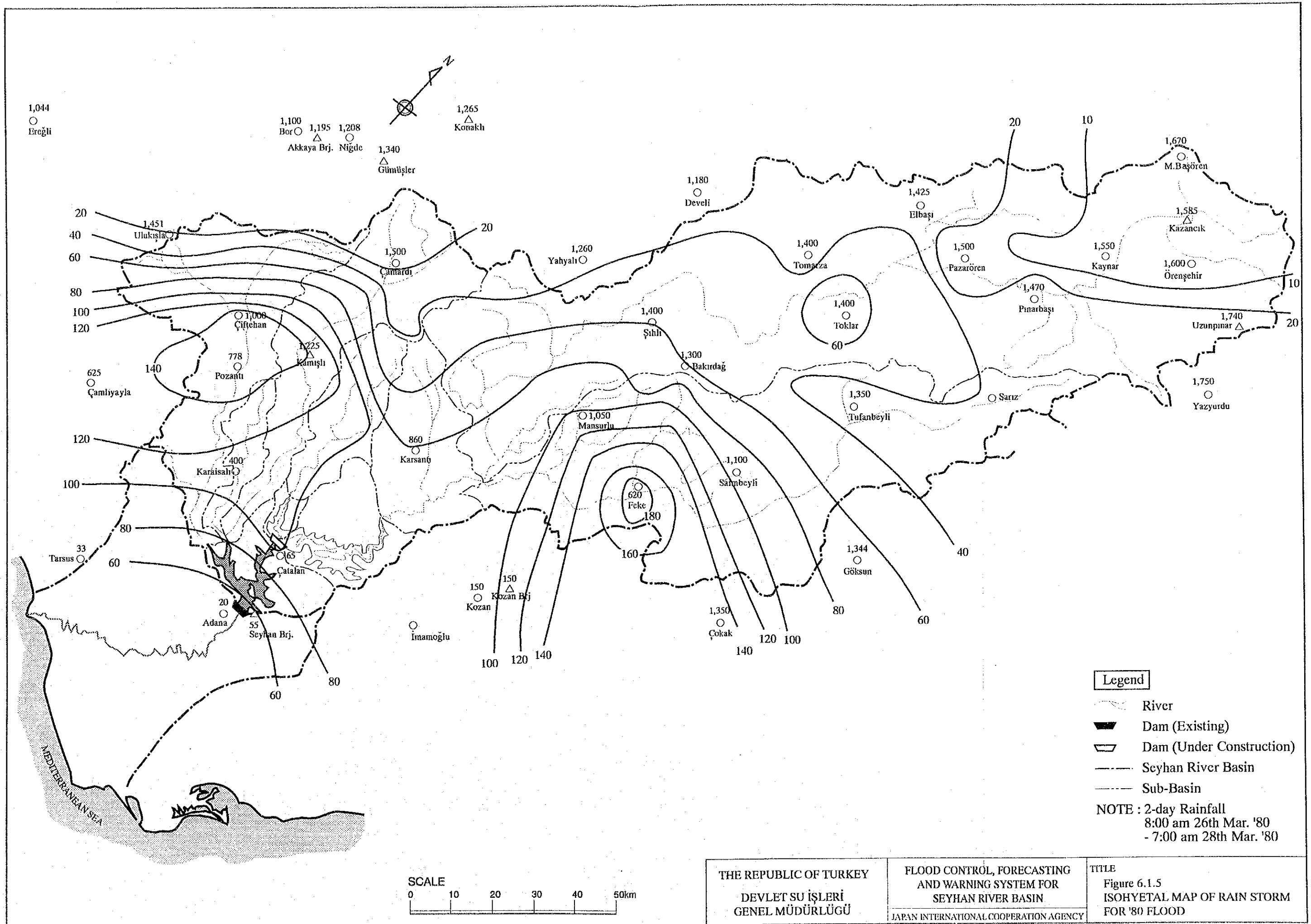
- River
- Dam (Existing)
- Dam (Under Construction)
- Catchment Area
- Sub-Basin
- DSİ Hydrometric Station (Under Operation)
- EİE Hydrometric Station (Under Operation)
- DSİ Hydrometric Station (Closed)
- EİE Hydrometric Station (Closed)



<p>THE REPUBLIC OF TURKEY DEVLET SU İŞLERİ GENEL MÜDÜRLÜĞÜ</p>	<p>FLOOD CONTROL, FORECASTING AND WARNING SYSTEM FOR SEYHAN RIVER BASIN JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE Figure 6.1.2 LOCATION MAP OF THE HYDROMETRIC STATIONS</p>
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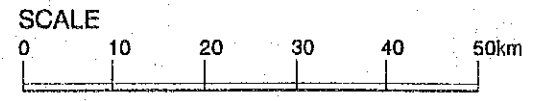


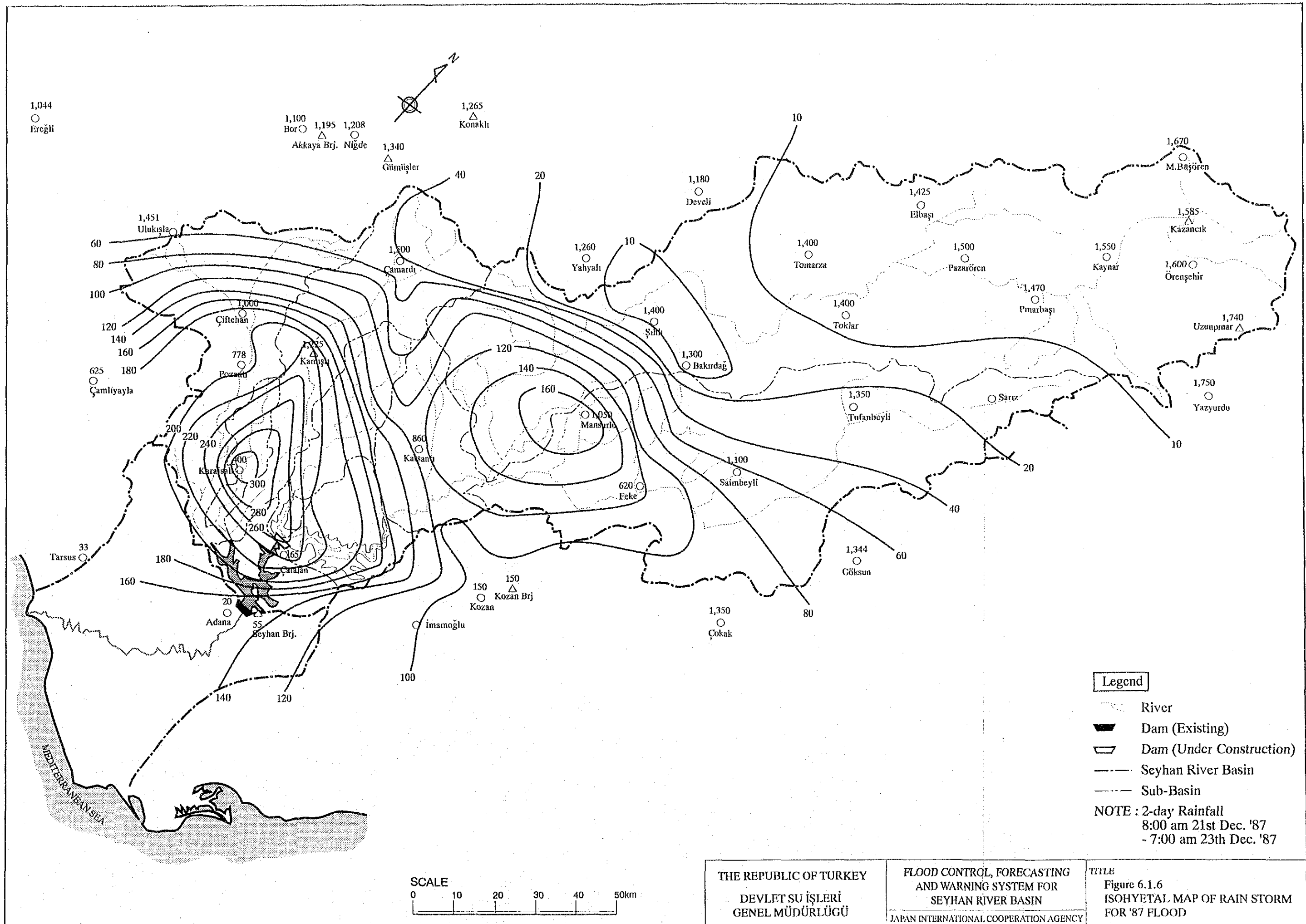
Legend

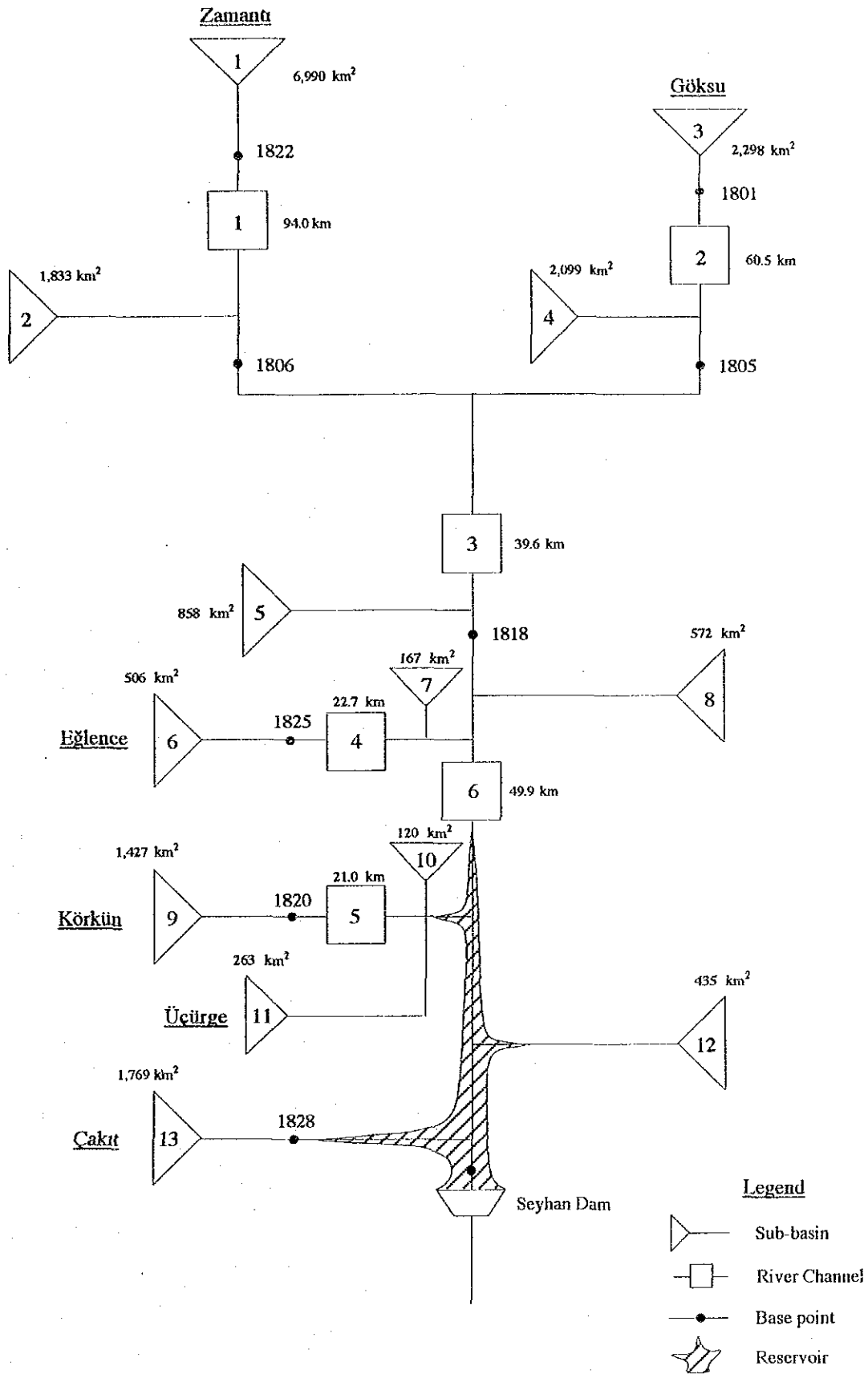
- River
- Dam (Existing)
- Dam (Under Construction)
- Seyhan River Basin
- Sub-Basin

NOTE : 2-day Rainfall
 8:00 am 26th Mar. '80
 - 7:00 am 28th Mar. '80

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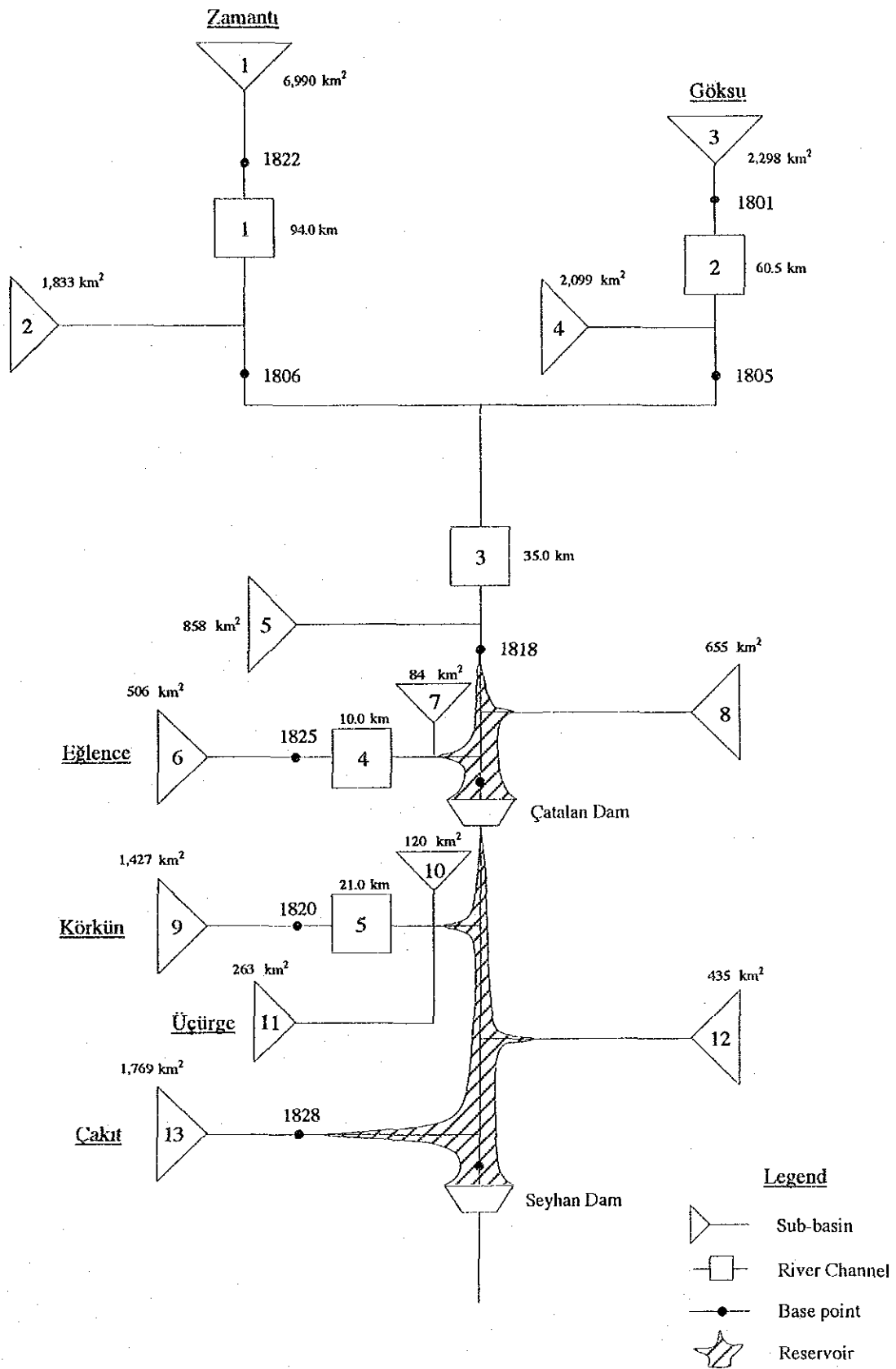


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FLOOD CONTROL, FORECASTING
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Figure 6.1.7
SCHEMATIC DIAGRAM FOR SEYHAN
RIVER BASIN (WITHOUT ÇATALAN)

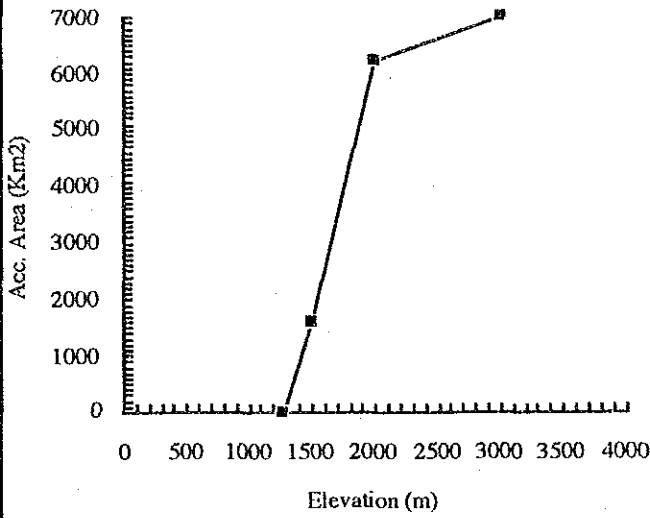


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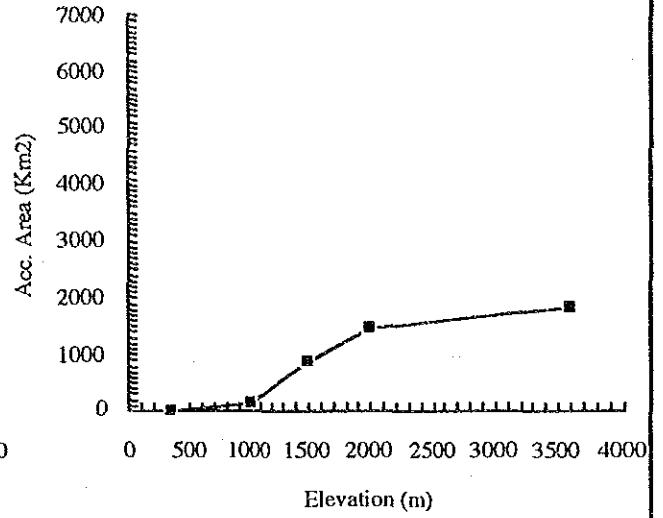
FLOOD CONTROL, FORECASTING
AND WARNING SYSTEM FOR
SEYHAN RIVER BASIN
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TITLE
Figure 6.1.8
SCHEMATIC DIAGRAM FOR SEYHAN
RIVER BASIN (WITH ÇATALAN)

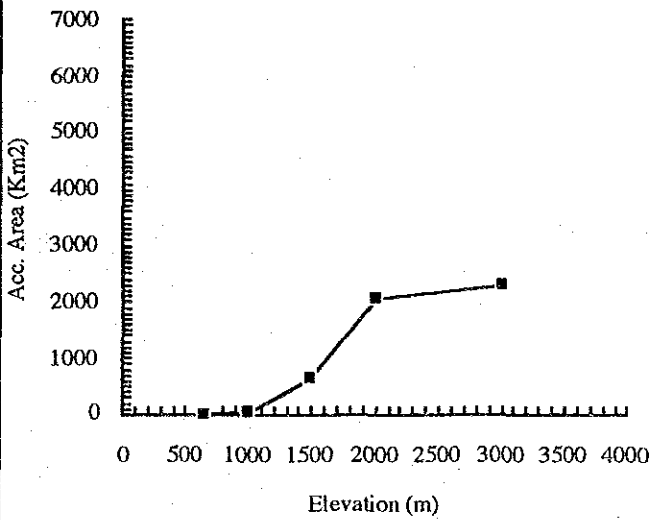
1. Zamanti up to 1822



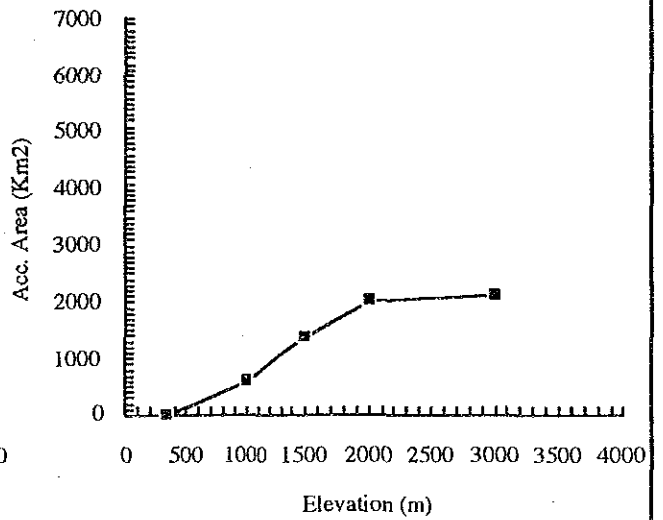
2. Zamanti up to 1806



3. Göksu up to 1801



4. Göksu up to 1805

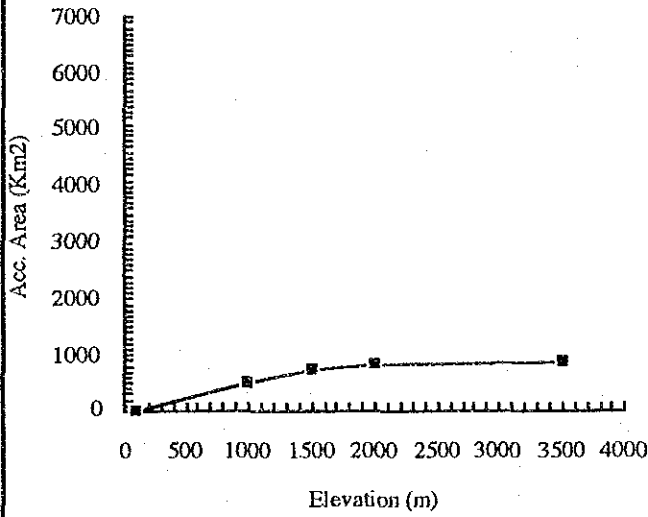


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GENEL MÜDÜLÜĞÜ

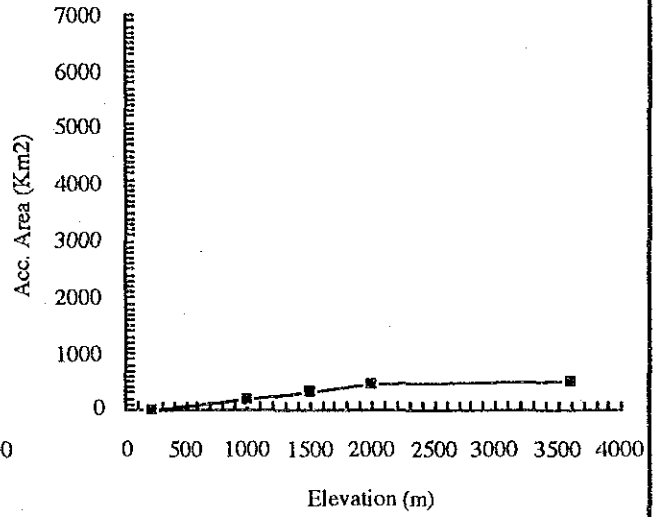
FLOOD CONTROL, FORECASTING
AND WARNING SYSTEM FOR
SEYHAN RIVER BASIN
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TITLE
Figure 6.3.1
AREA - ELEVATION CURVE (1/3)

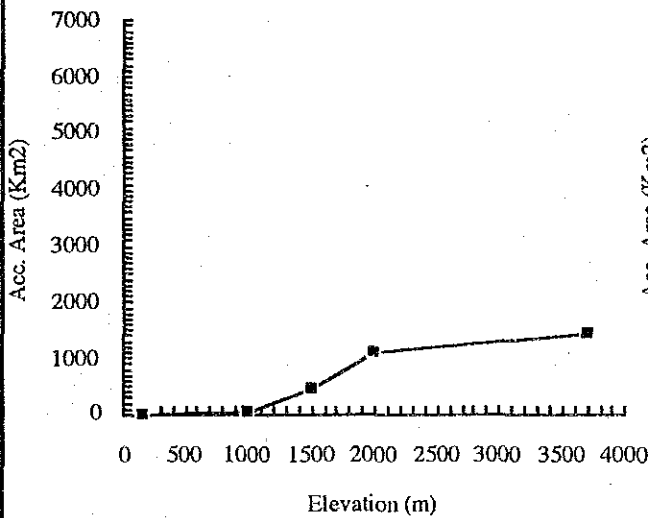
5. Zamantı-Göksu joint to Çatalan HWL



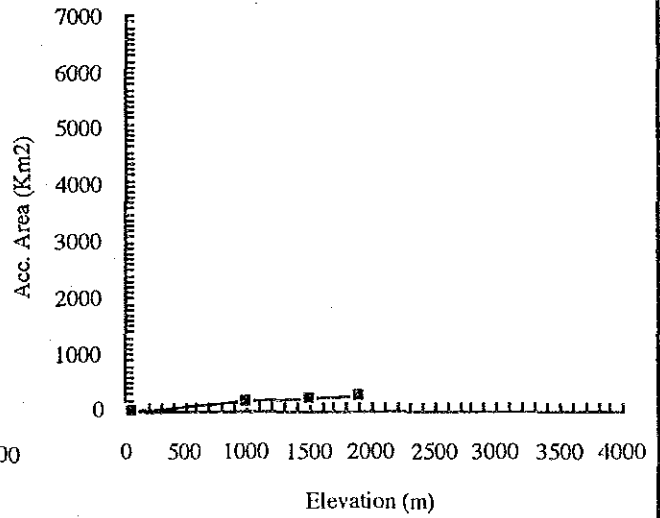
6. Eğlence up to 1825



9. Körkün up to 1820



11. Üçürge



THE REPUBLIC OF TURKEY
DEVLET SU İŞLERİ
GENEL MÜDÜLÜĞÜ

FLOOD CONTROL, FORECASTING
AND WARNING SYSTEM FOR
SEYHAN RIVER BASIN

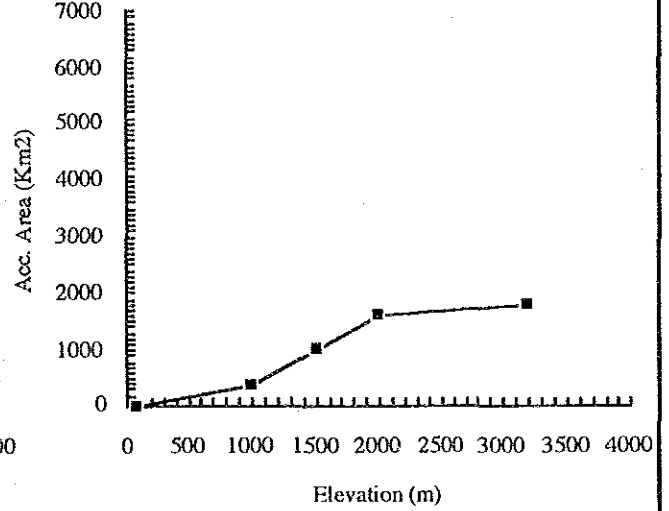
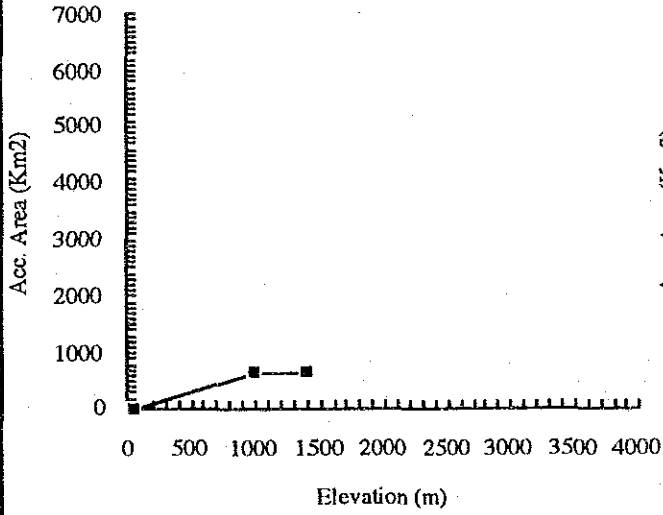
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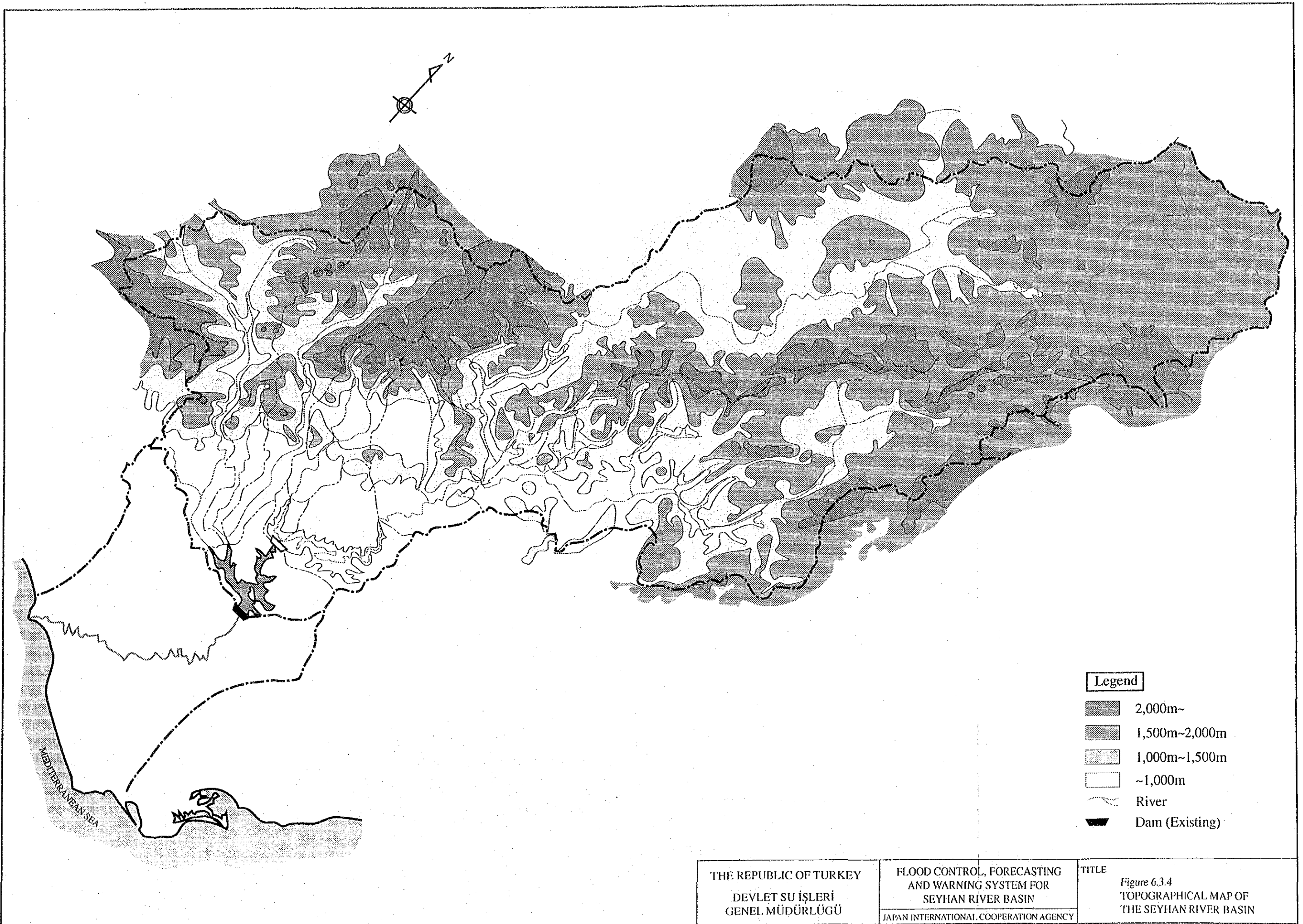
Figure 6.3.2
AREA - ELEVATION CURVE (2/3)

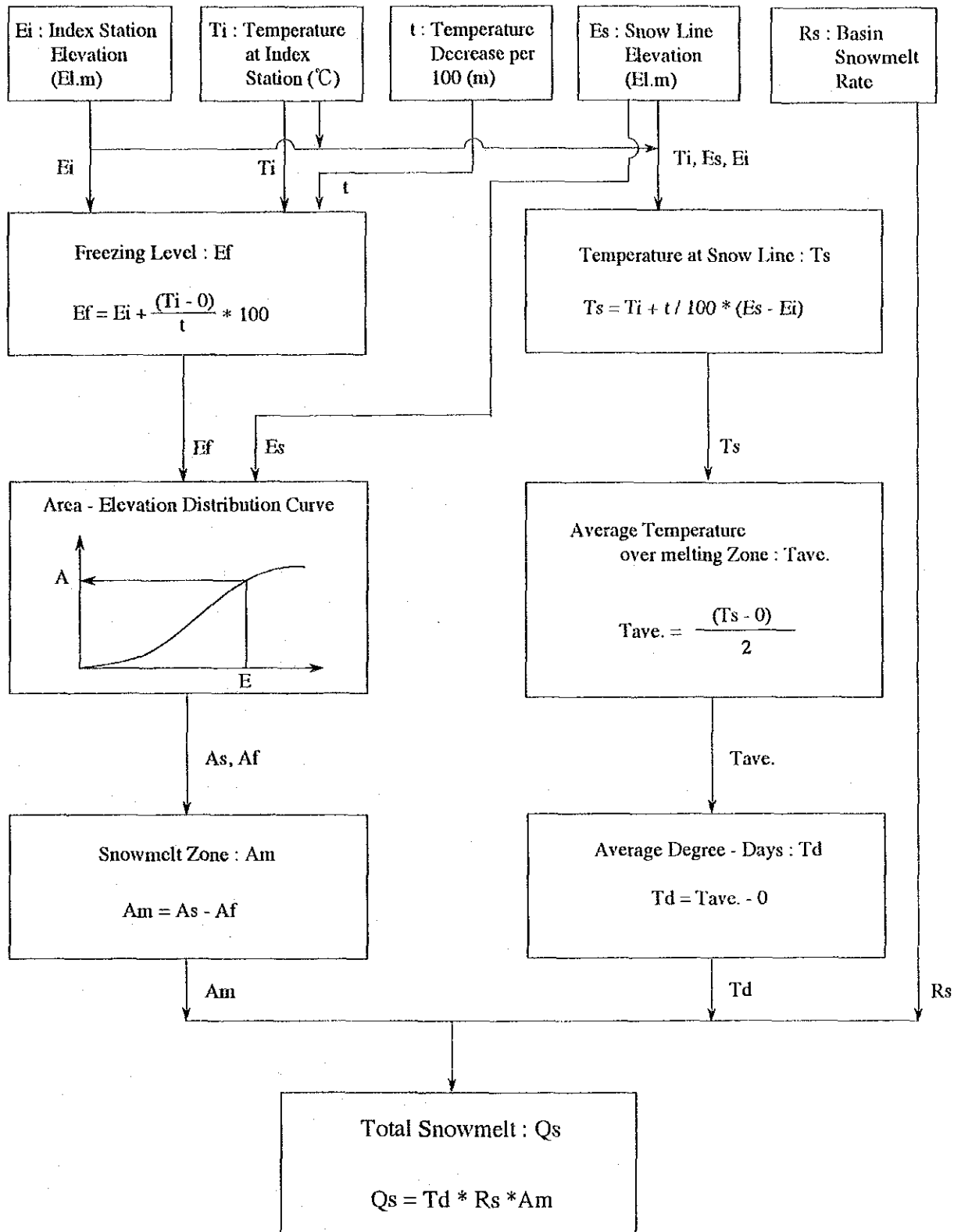
12.Çatalan Brj.-Seyhan Brj.

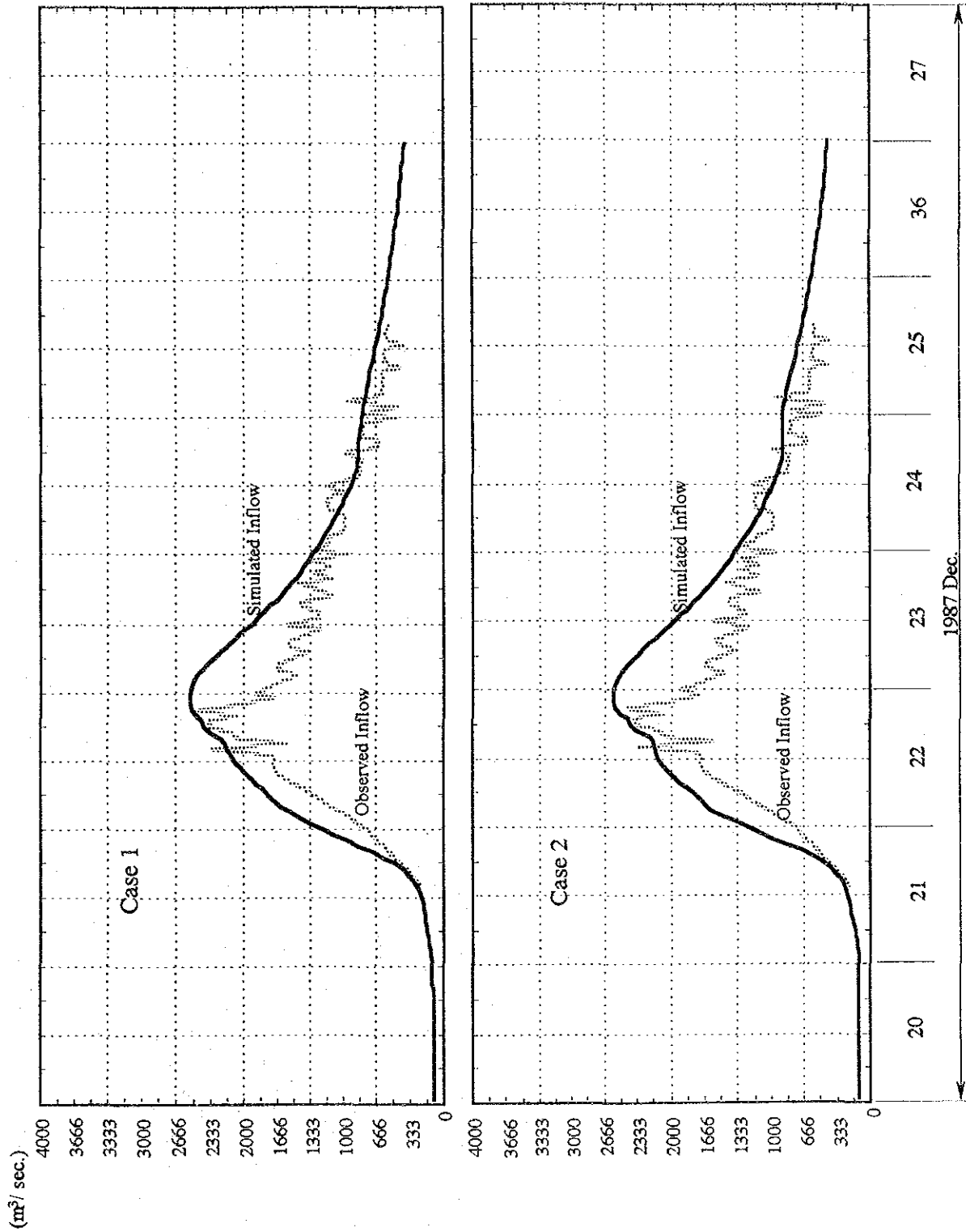
13.Çakıt up to 1828



<p>THE REPUBLIC OF TURKEY DEVLET SU İŞLERİ GENEL MÜDÜLÜĞÜ</p>	<p>FLOOD CONTROL, FORECASTING AND WARNING SYSTEM FOR SEYHAN RIVER BASIN</p>	<p>TITLE</p> <p>Figure 6.3.3 AREA - ELEVATION CURVE (3/3)</p>
	<p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	





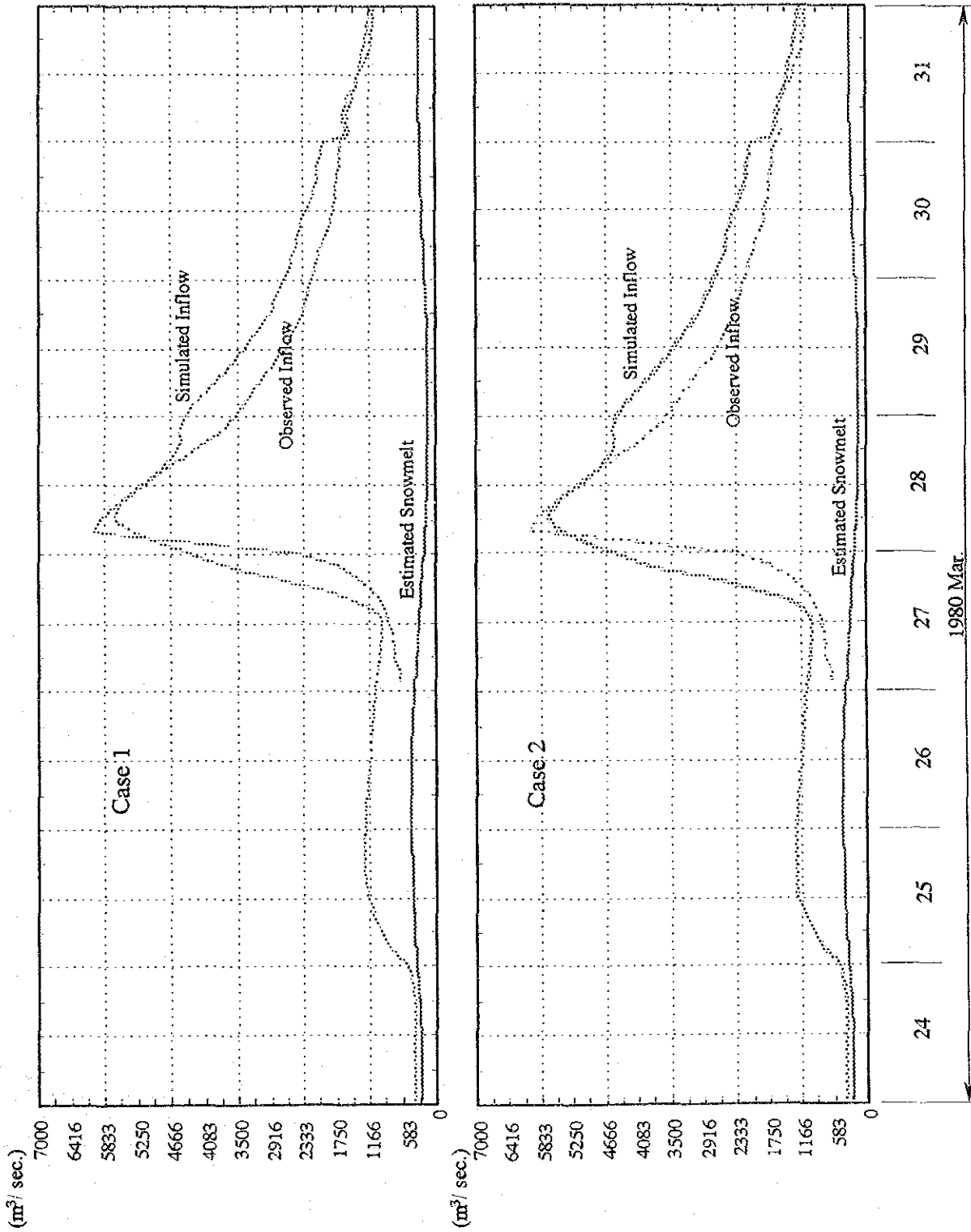


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TITLE
Figure 6.4.1
RESULTS OF THE CALIBRATION OF
RUNOFF CALCULATION MODELS
('87 FLOOD)

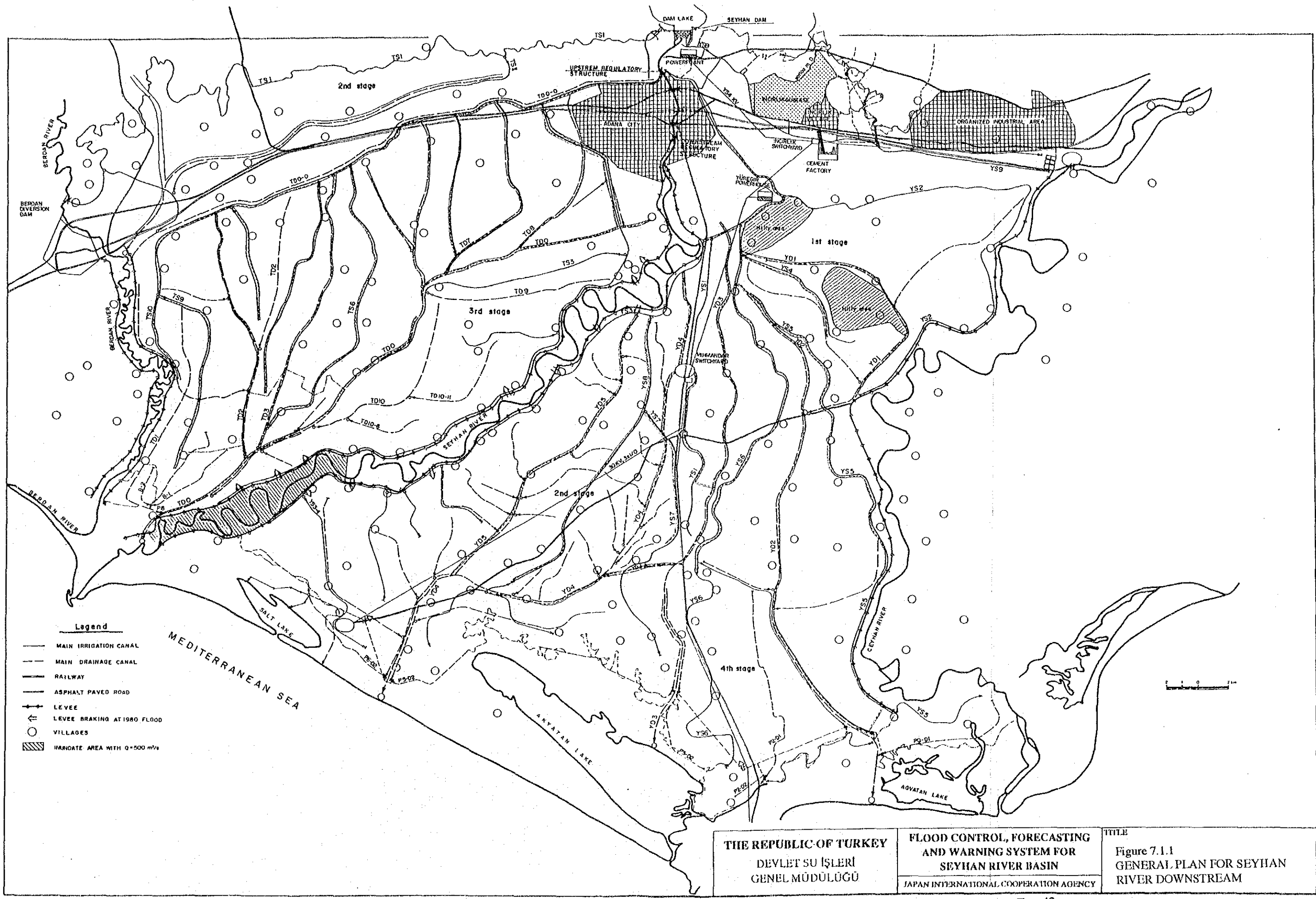


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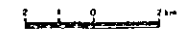
FLOOD CONTROL, FORECASTING
AND WARNING SYSTEM FOR
SEYHAN RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

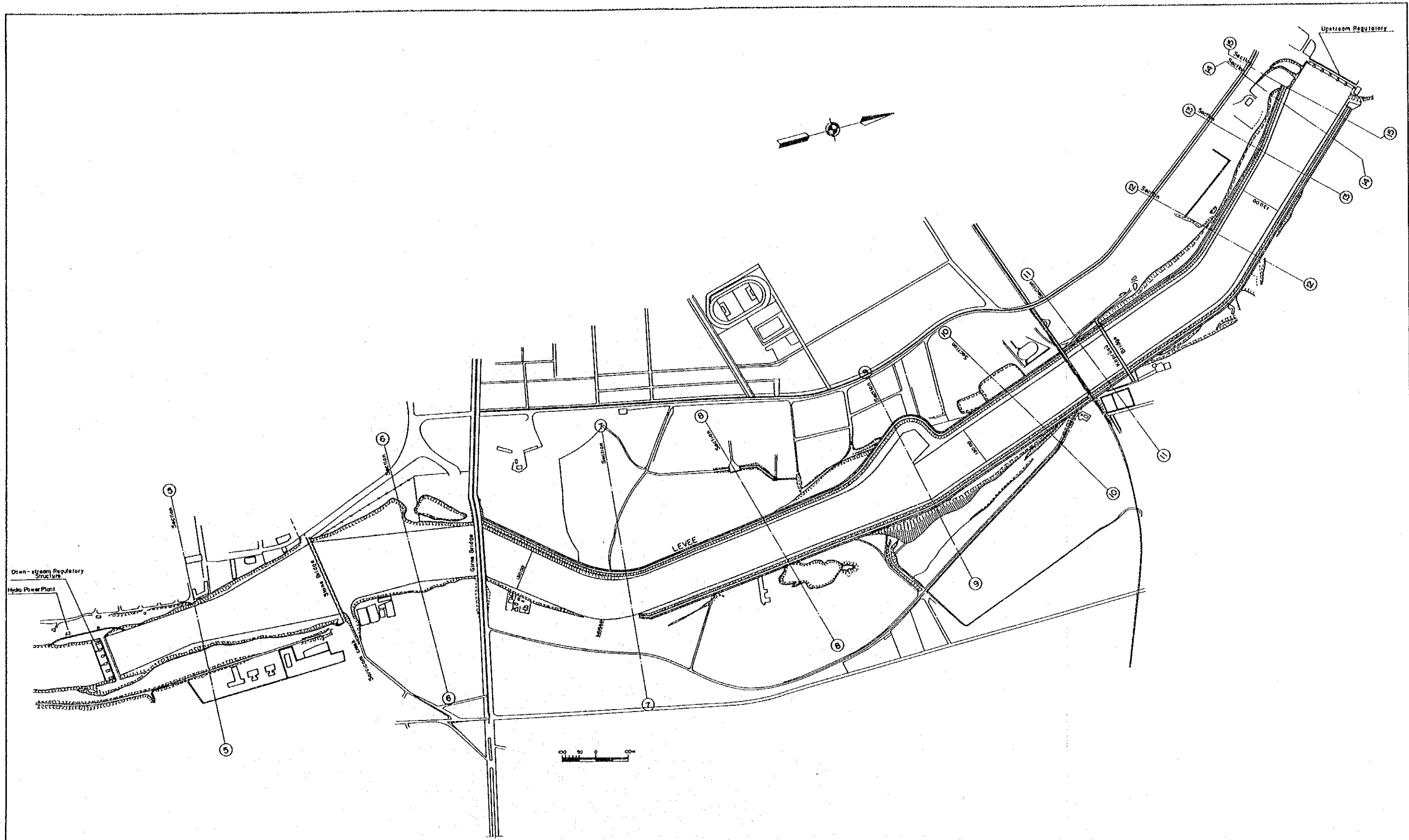
TITLE
Figure 6.4.2
RESULTS OF THE CALIBRATION OF
RUNOFF CALCULATION MODELS
('80 FLOOD)



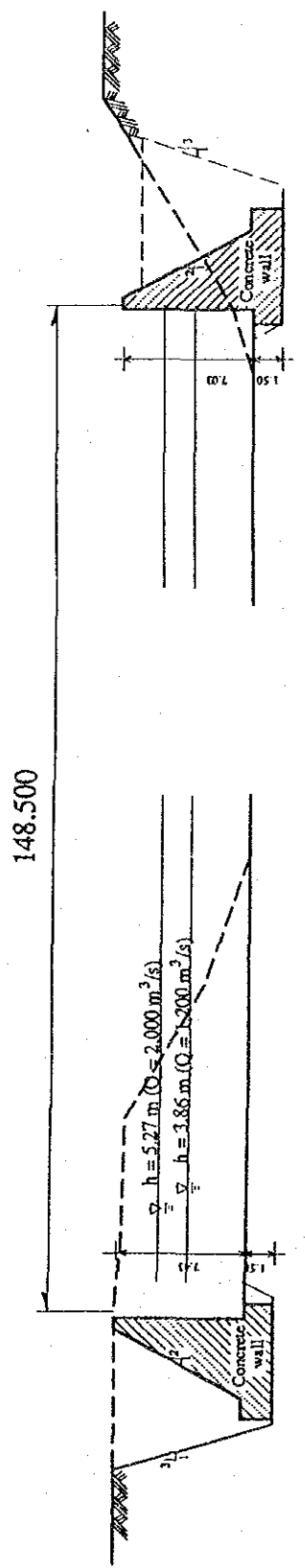
- Legend**
- MAIN IRRIGATION CANAL
 - - - MAIN DRAINAGE CANAL
 - RAILWAY
 - ASPHALT PAVED ROAD
 - ↑ LEVEE
 - ↑ LEVEE BRAKING AT 1980 FLOOD
 - VILLAGES
 - ▨ INUNDATE AREA WITH $Q = 500 \text{ m}^3/\text{s}$



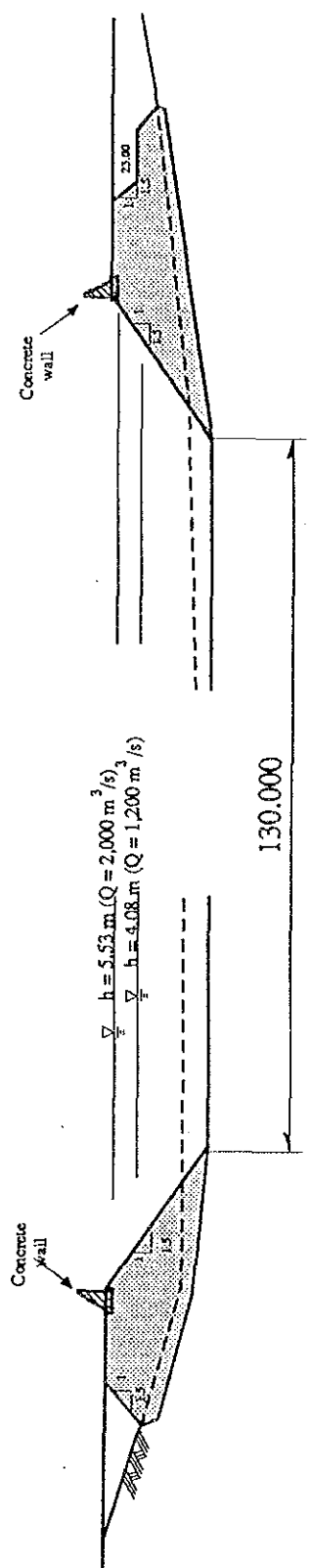
<p>THE REPUBLIC OF TURKEY DEVLET SU İŞLERİ GENEL MÜDÜLÜĞÜ</p>	<p>FLOOD CONTROL, FORECASTING AND WARNING SYSTEM FOR SEYHAN RIVER BASIN JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE Figure 7.1.1 GENERAL PLAN FOR SEYHAN RIVER DOWNSTREAM</p>
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<p>THE REPUBLIC OF TURKEY DEVLET SU İŞLERİ GENEL MÜDÜLÜĞÜ</p>	<p>FLOOD CONTROL, FORECASTING AND WARNING SYSTEM FOR SEYHAN RIVER BASIN JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE Figure 7.1.2 GENERAL PLAN FOR SEYHAN RIVER IN ADANA CITY</p>
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Typical Section-1

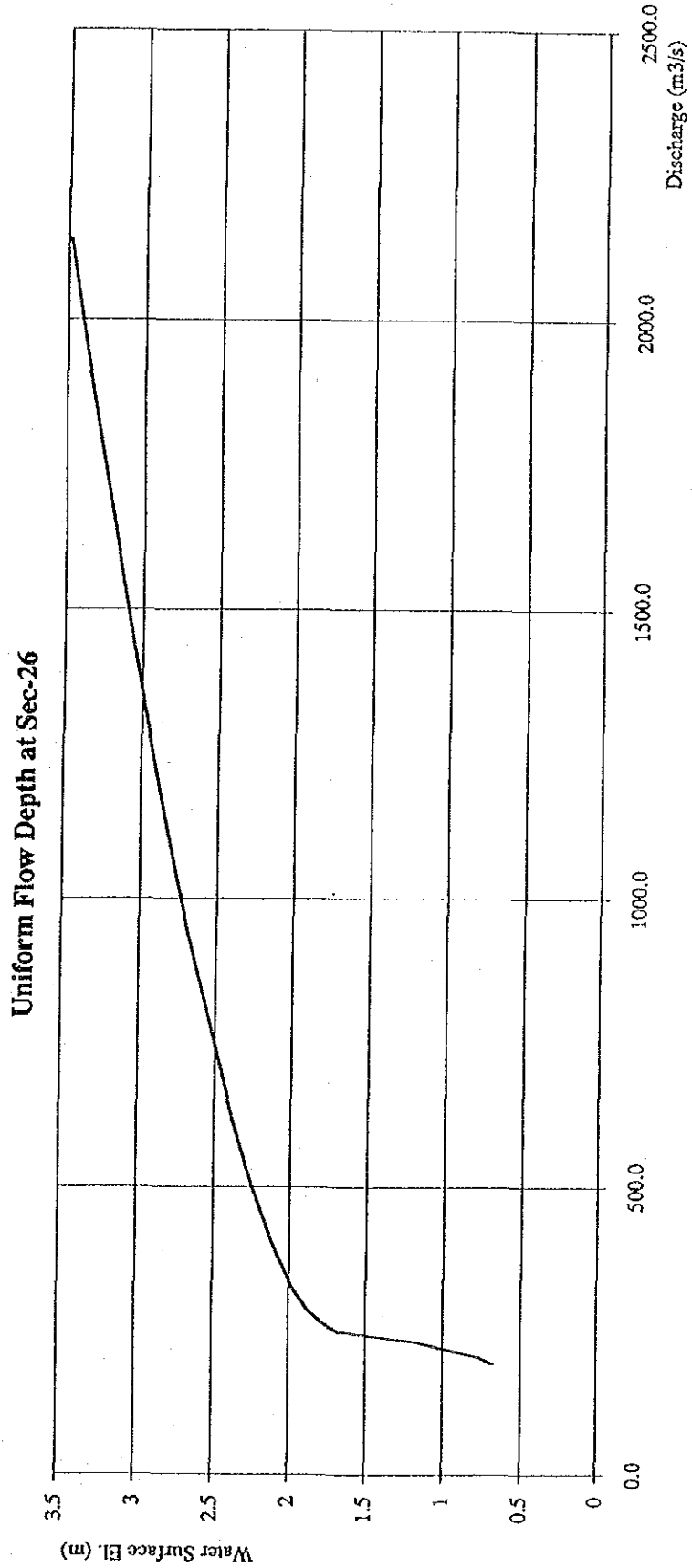


Typical Section-2

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TITLE
Figure 7.1.3
SEYHAN RIVER TYPICAL SECTION
IN ADANA CITY



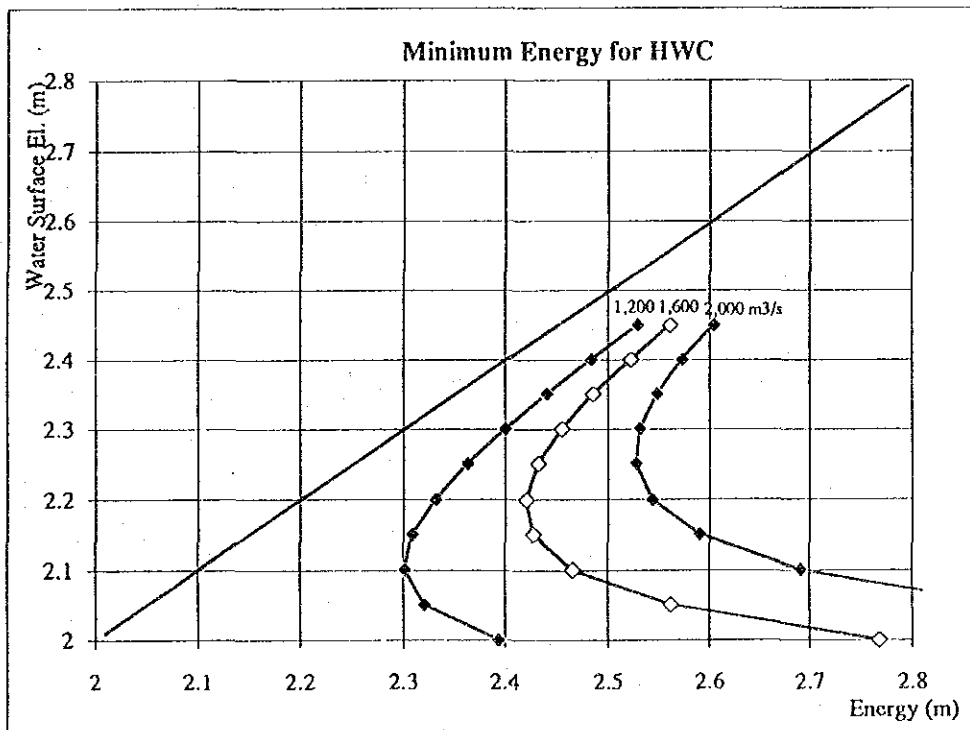
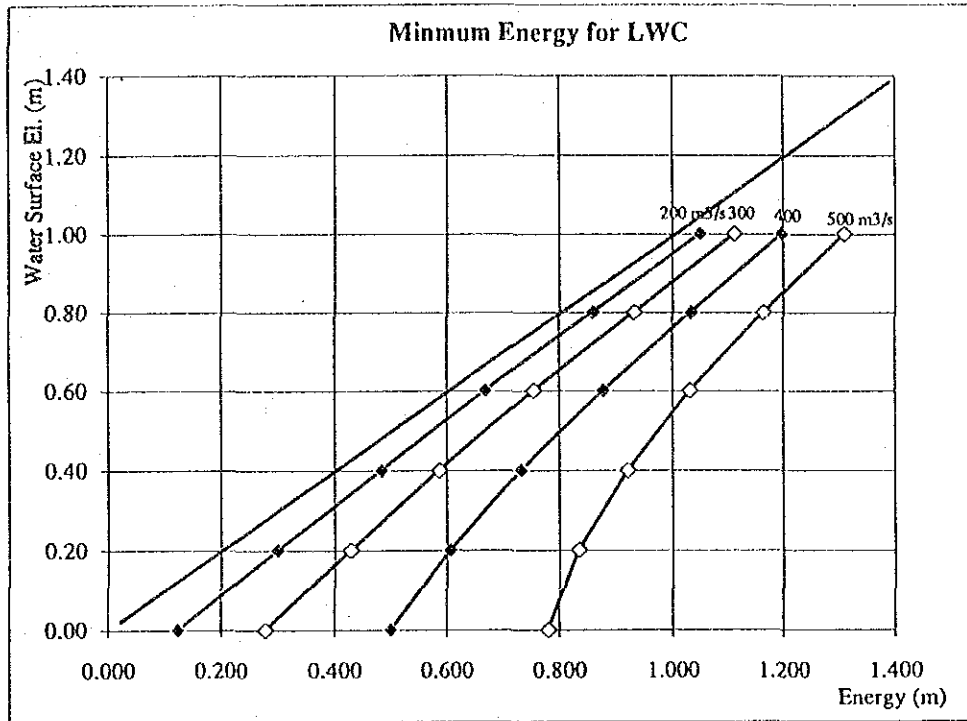
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Figure 7.1.4
UNIFORM FLOW DEPTH AT SEC.-26



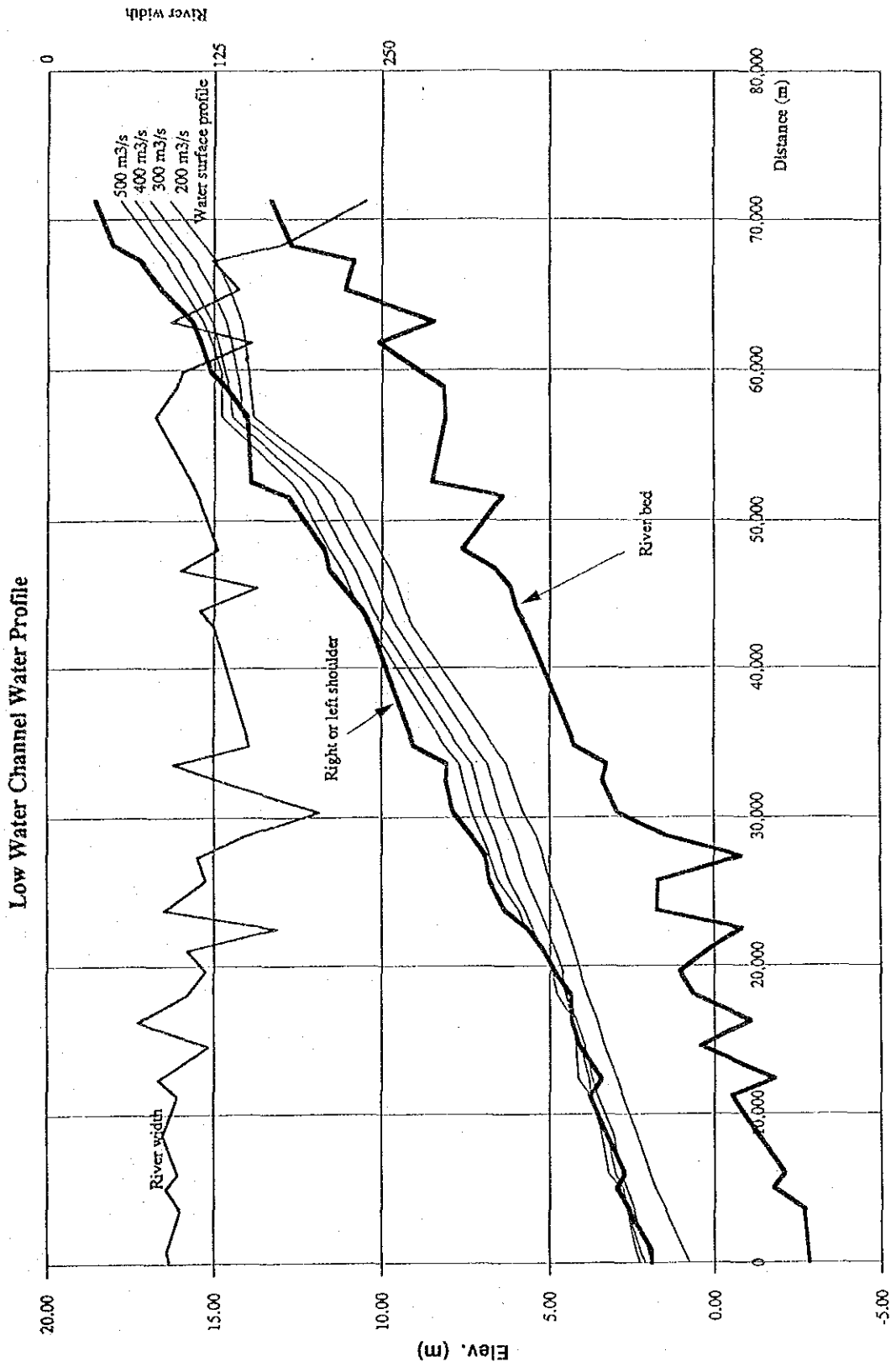
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TITLE

Figure 7.1.5
MINIMUM ENERGY AT SEC.-26



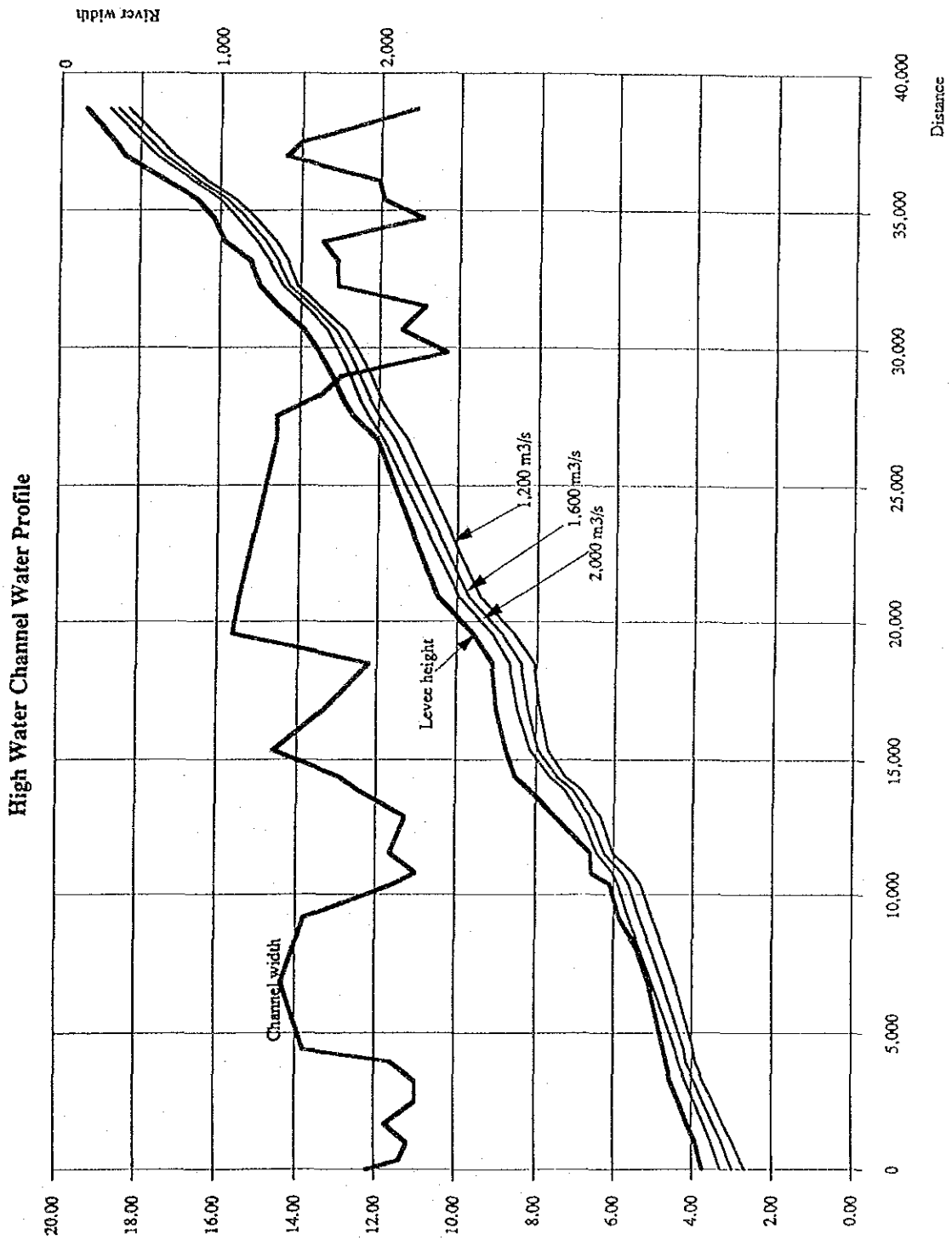
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TITLE

Figure 7.1.6
LOW WATER CHANNEL WATER
PROFILE



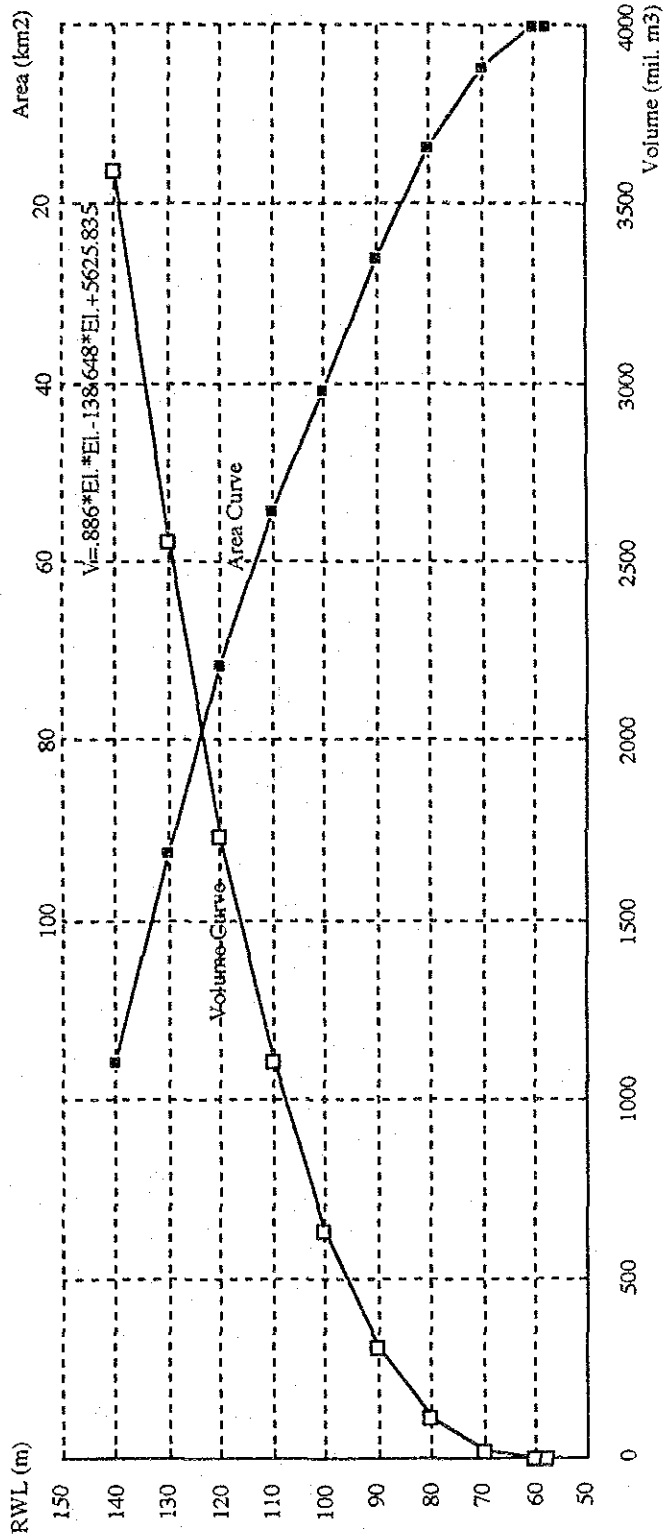
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TITLE

Figure 7.1.7
HIGH WATER CHANNEL WATER
PROFILE



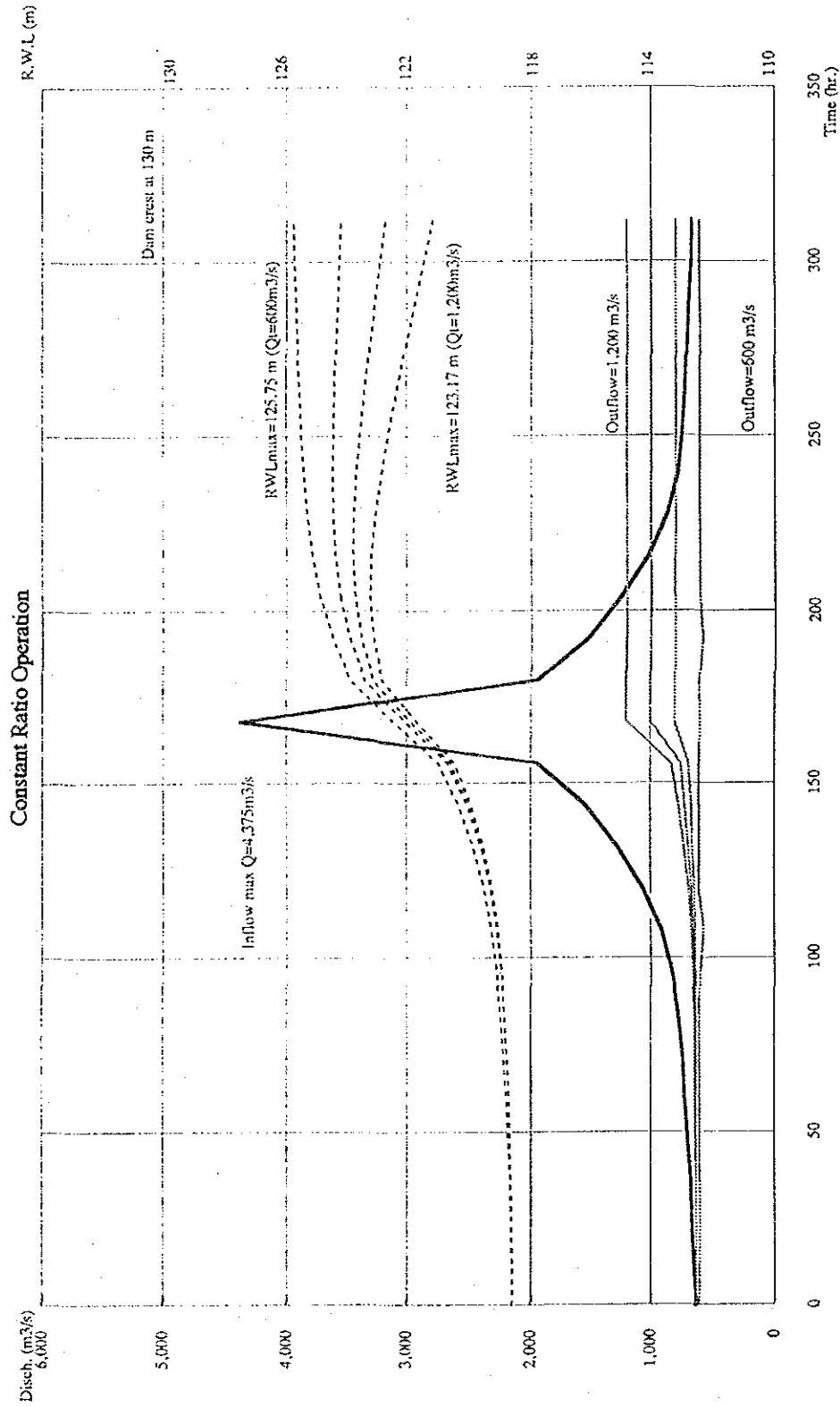
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AND WARNING SYSTEM FOR
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TITLE

Figure 7.2.1
ÇATALAN DAM AREA - VOLUME
CURVE



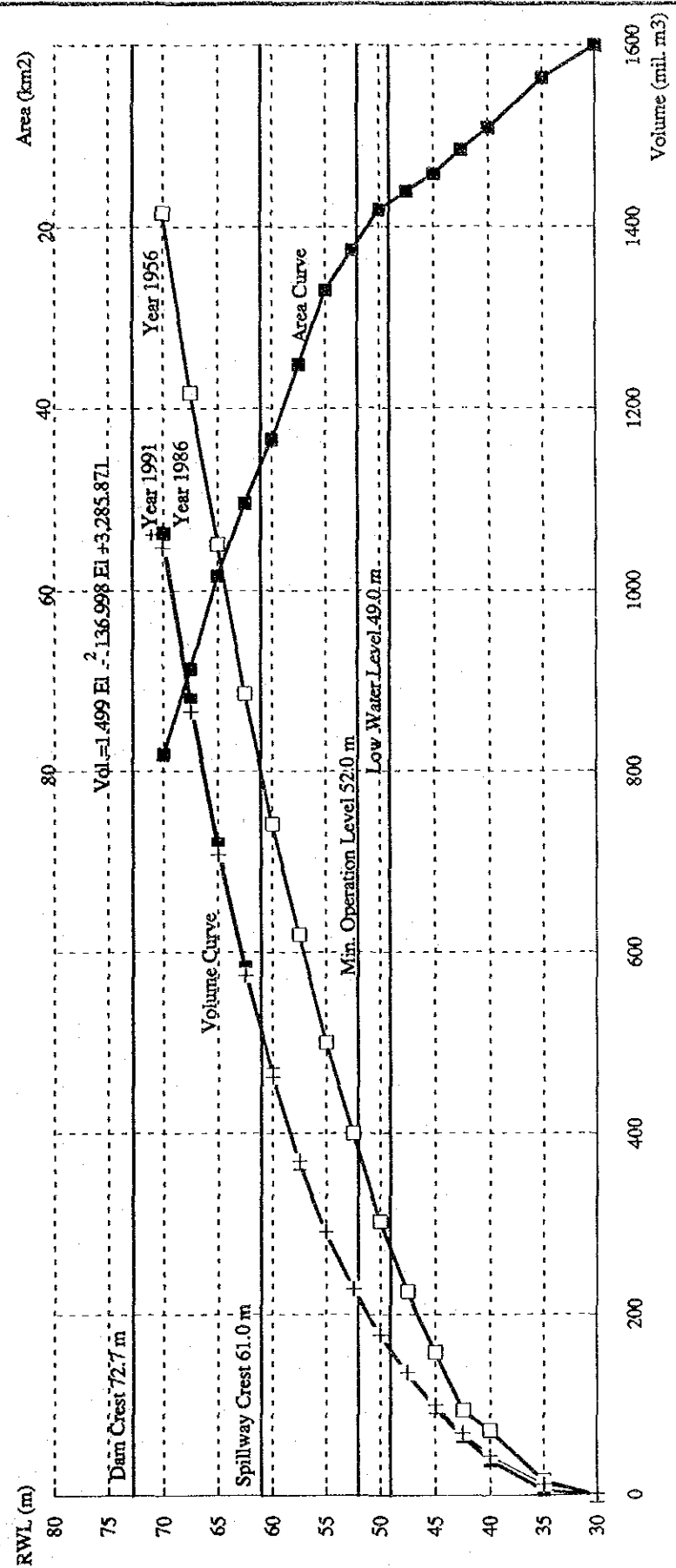
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TITLE

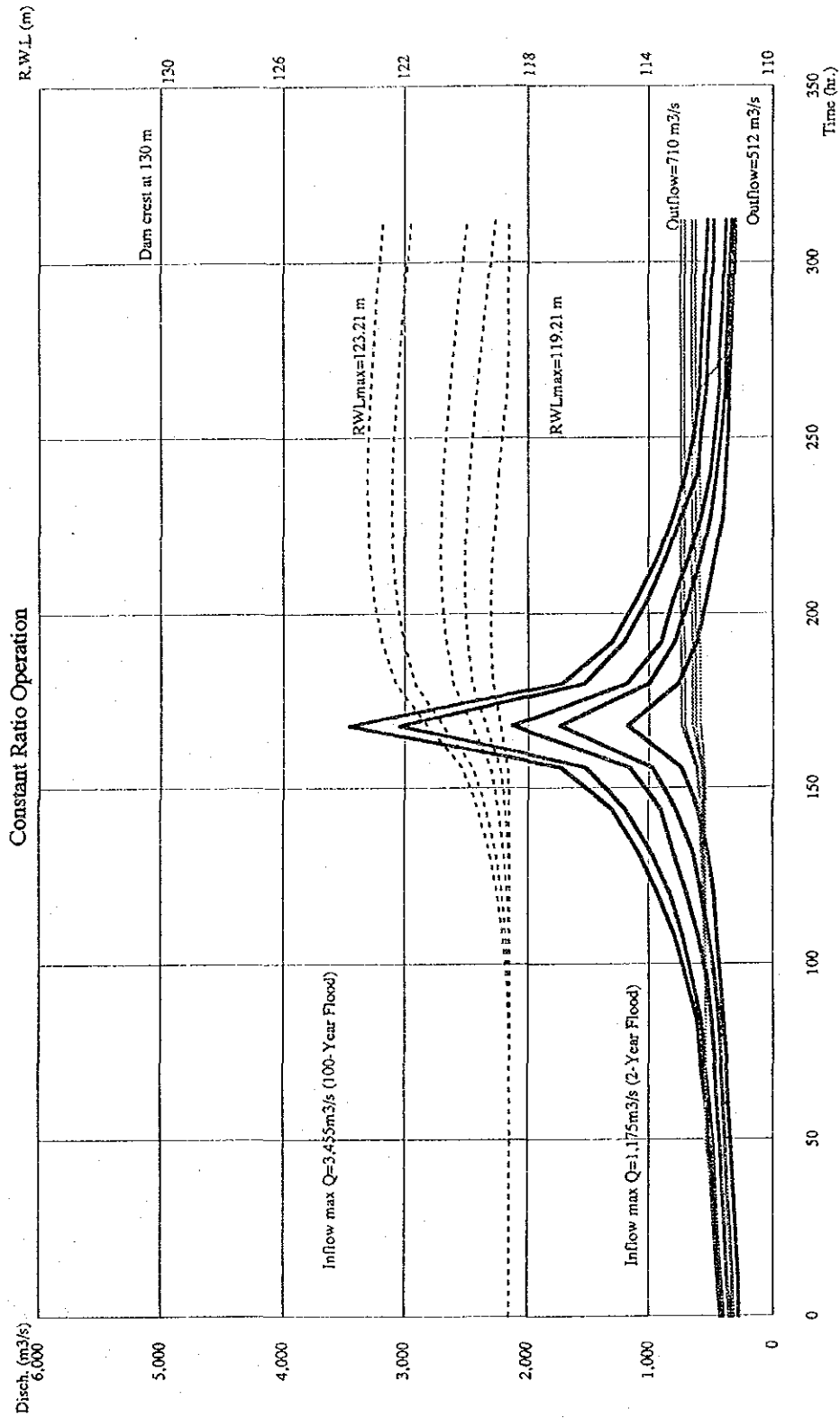
Figure 7.2.2
ÇATALAN DAM FLOOD ROUTING
FOR 500-YEAR FLOOD



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TITLE
Figure 7.2.3
SEYHAN DAM AREA - VOLUME
CURVE

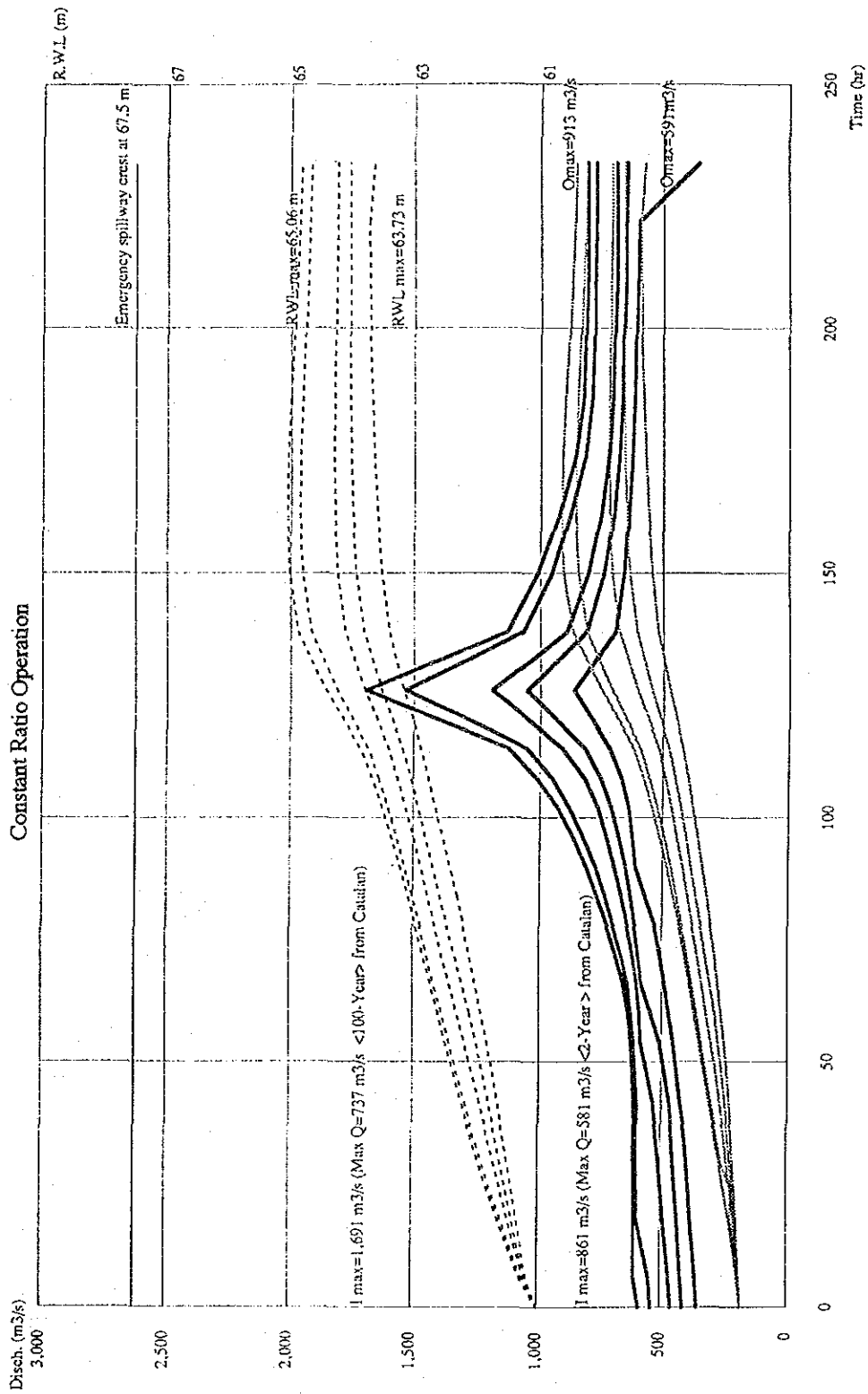


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TITLE
Figure 7.2.4
ÇATALAN DAM FLOOD ROUTING
(CONSTANT RATIO OPERATION)



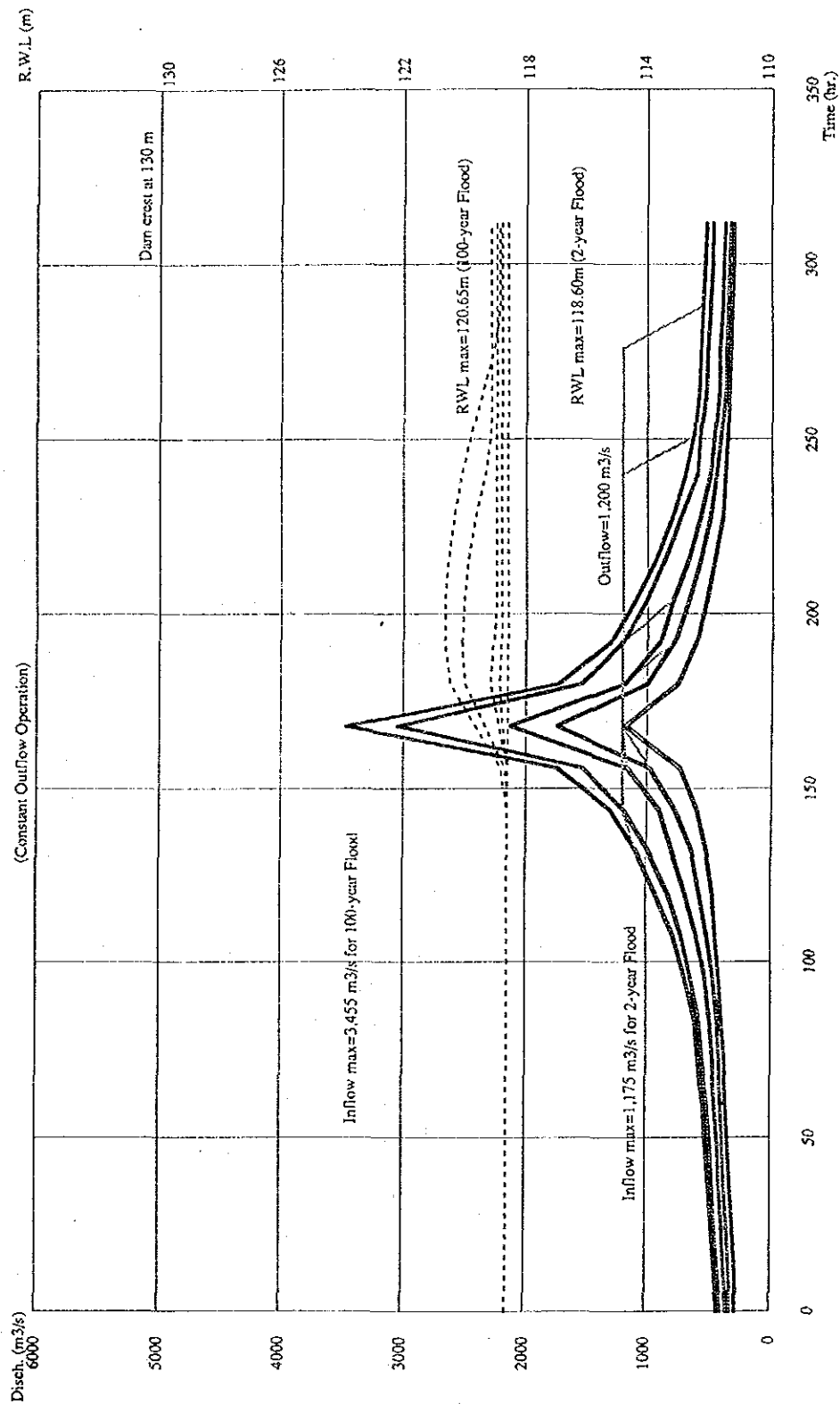
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TITLE

Figure 7.2.5
SEYHAN DAM FLOOD ROUTING
(CONSTANT RATIO OPERATION)

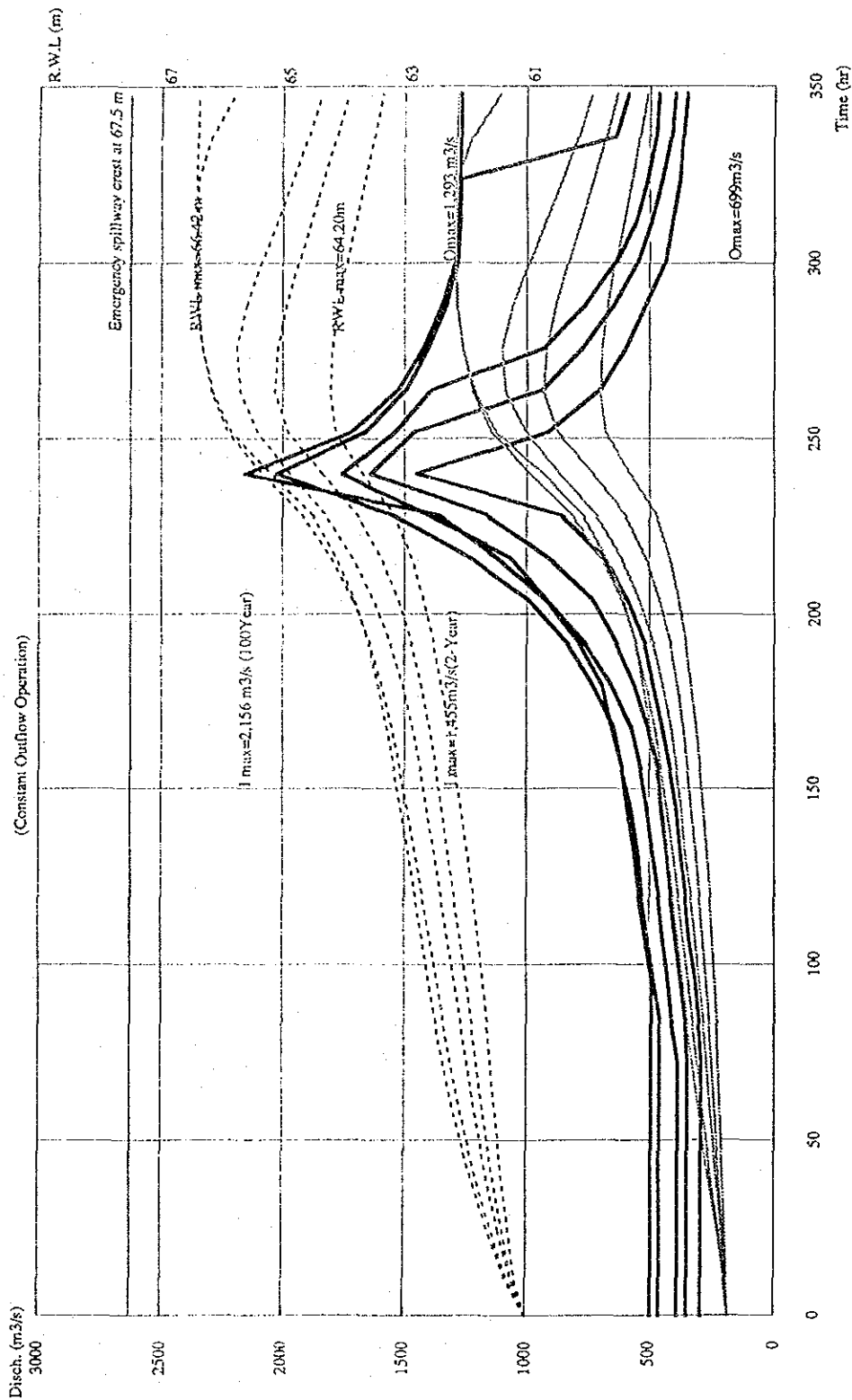


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AND WARNING SYSTEM FOR
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TITLE
Figure 7.2.6
ÇATALAN DAM FLOOD ROUTING
(CONSTANT OUTFLOW OPERATION)



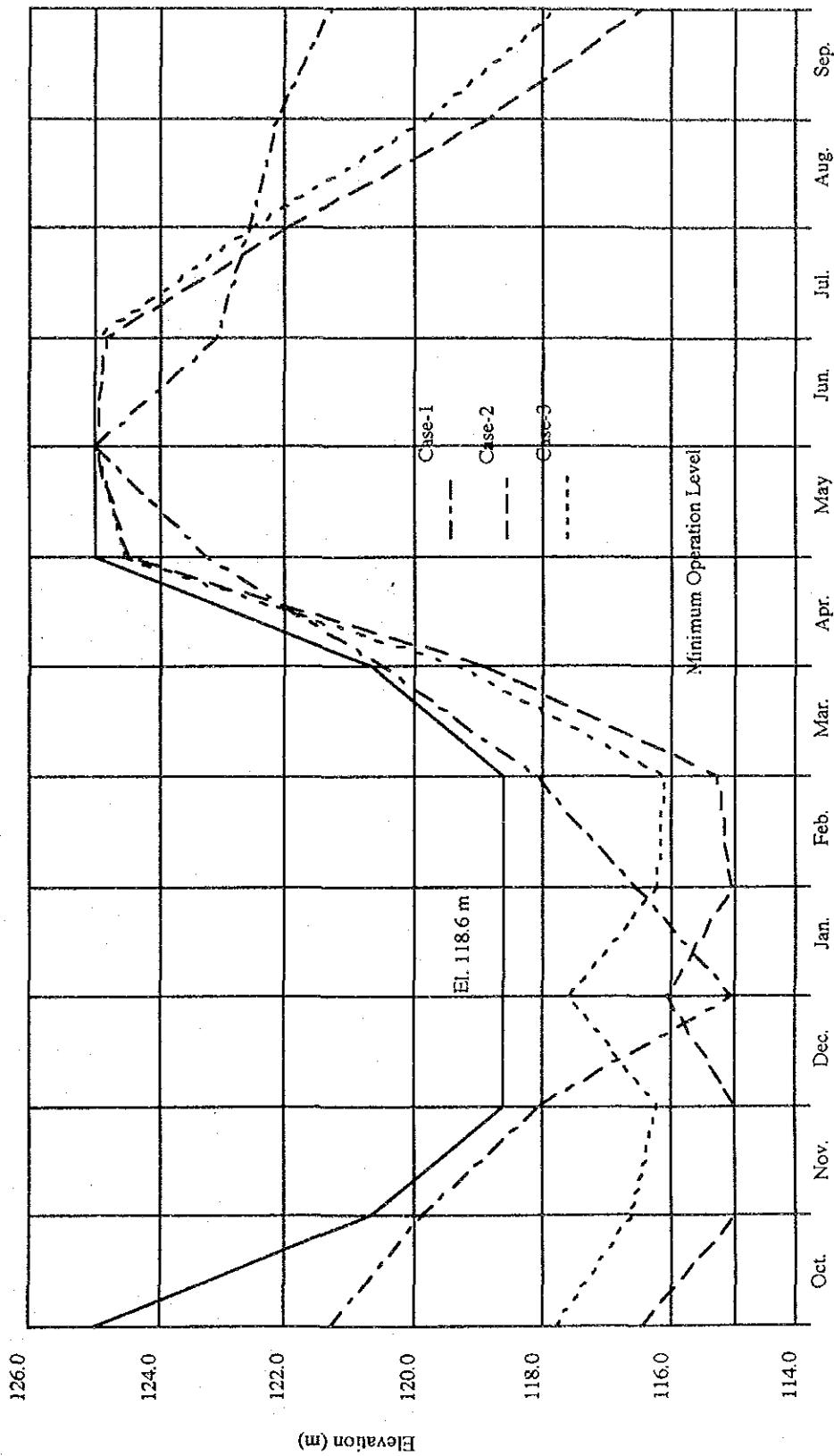
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TITLE

Figure 7.2.7
SEYHAN DAM FLOOD ROUTING
(CONSTANT OUTFLOW OPERATION)

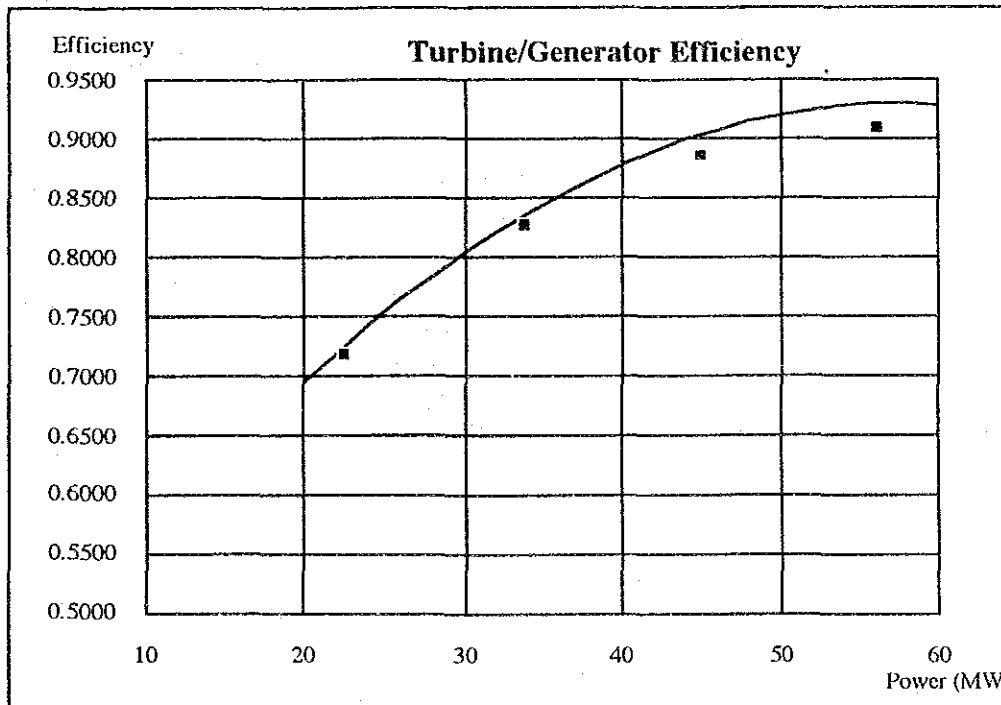
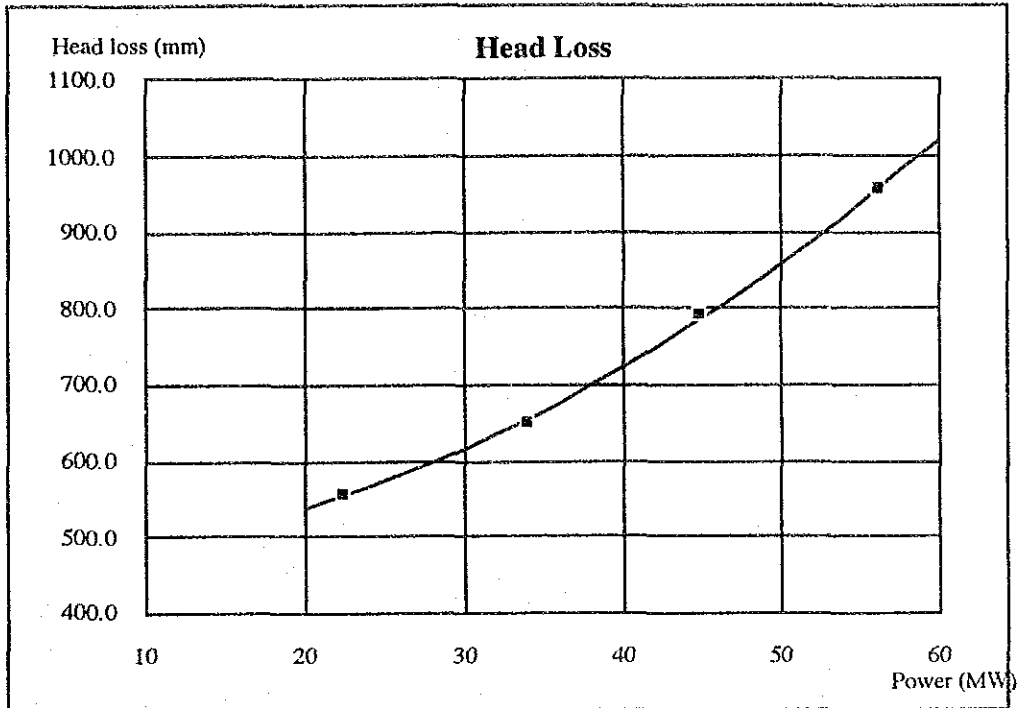


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TITLE
Figure 7.3.1
ÇATALAN DAM OPERATION RULE
CURVE

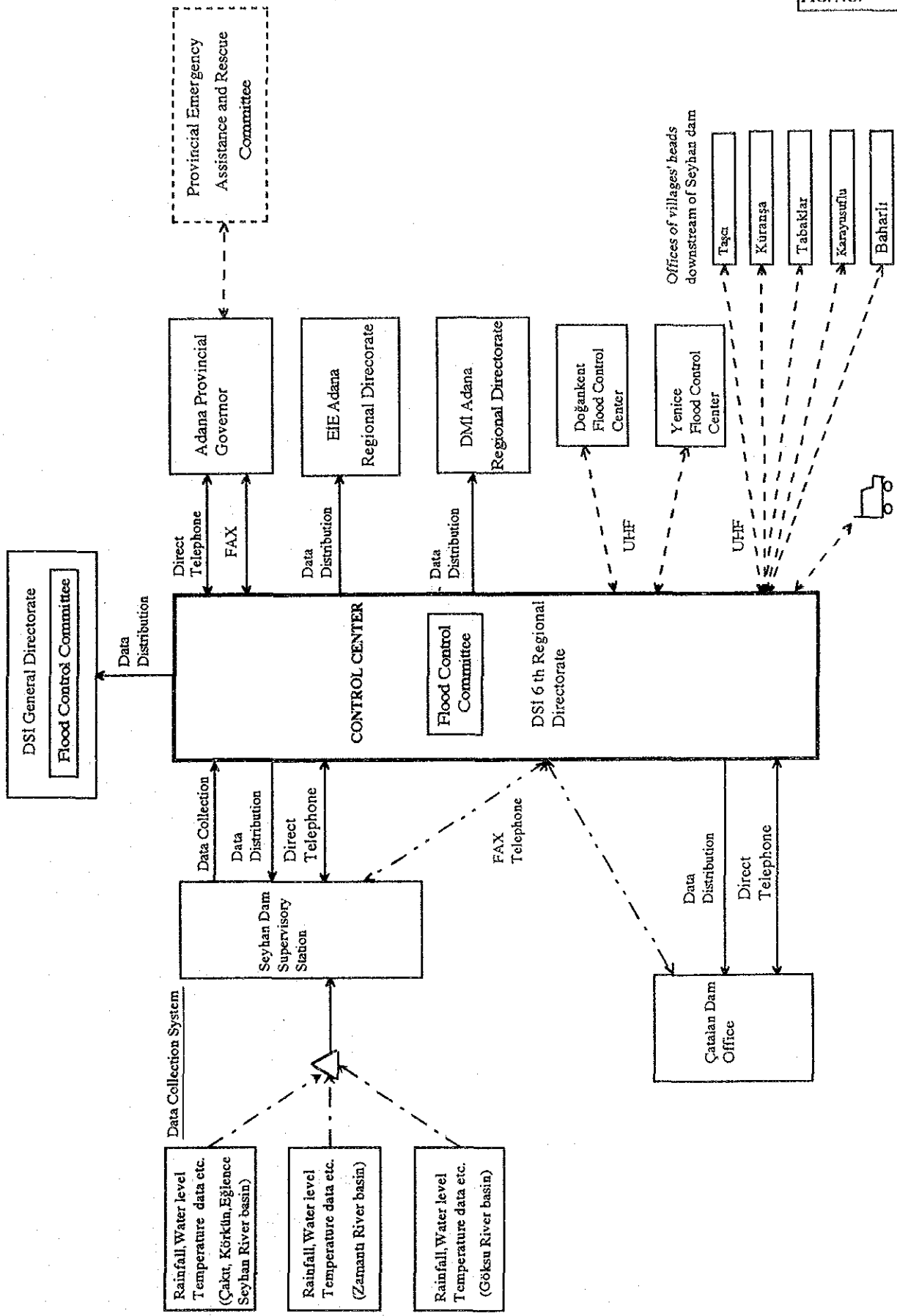


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Figure 7.3.2
HEAD LOSS AND TURBINE /
GENERATOR EFFICIENCY



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TITLE
Figure 8.1.1
CONFIGURATION AND FUNCTION OF DATA
COLLECTION & TRANSMISSION SYSTEM

Seyhan, Çakıt, Körkün
Eğlence River Basin

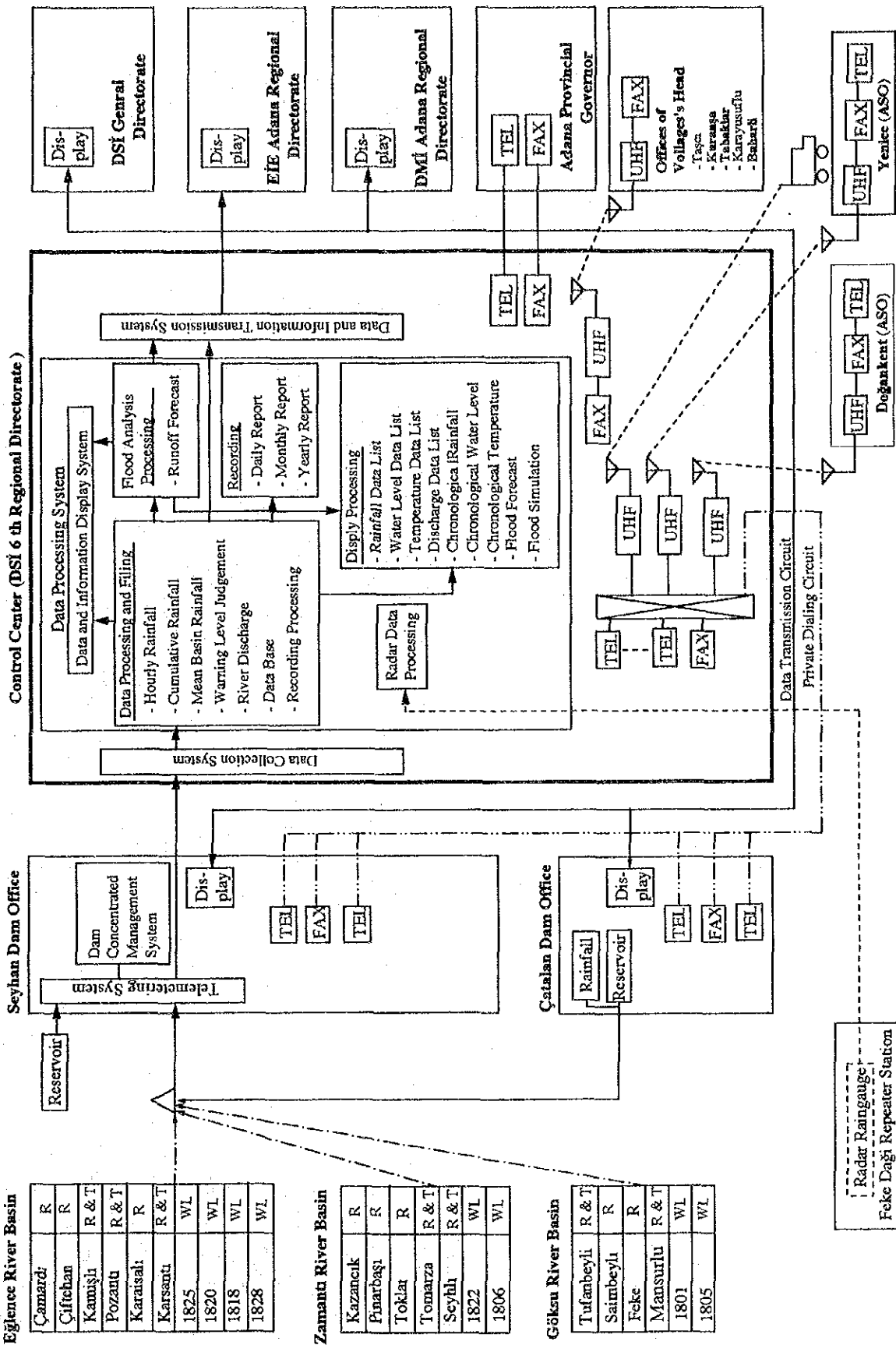
Çamardı	R
Çiftçiban	R
Kamışlı	R & T
Pozantı	R & T
Karaisalı	R
Karsantı	R & T
1825	WL
1820	WL
1818	WL
1828	WL

Zamantı River Basin

Kazanek	R
Pınarbaşı	R
Toklar	R
Tomarza	R & T
Seyhli	R & T
1822	WL
1806	WL

Göksu River Basin

Tufambeyli	R & T
Saimbeyli	R
Fekke	R
Mansurlu	R & T
1801	WL
1805	WL

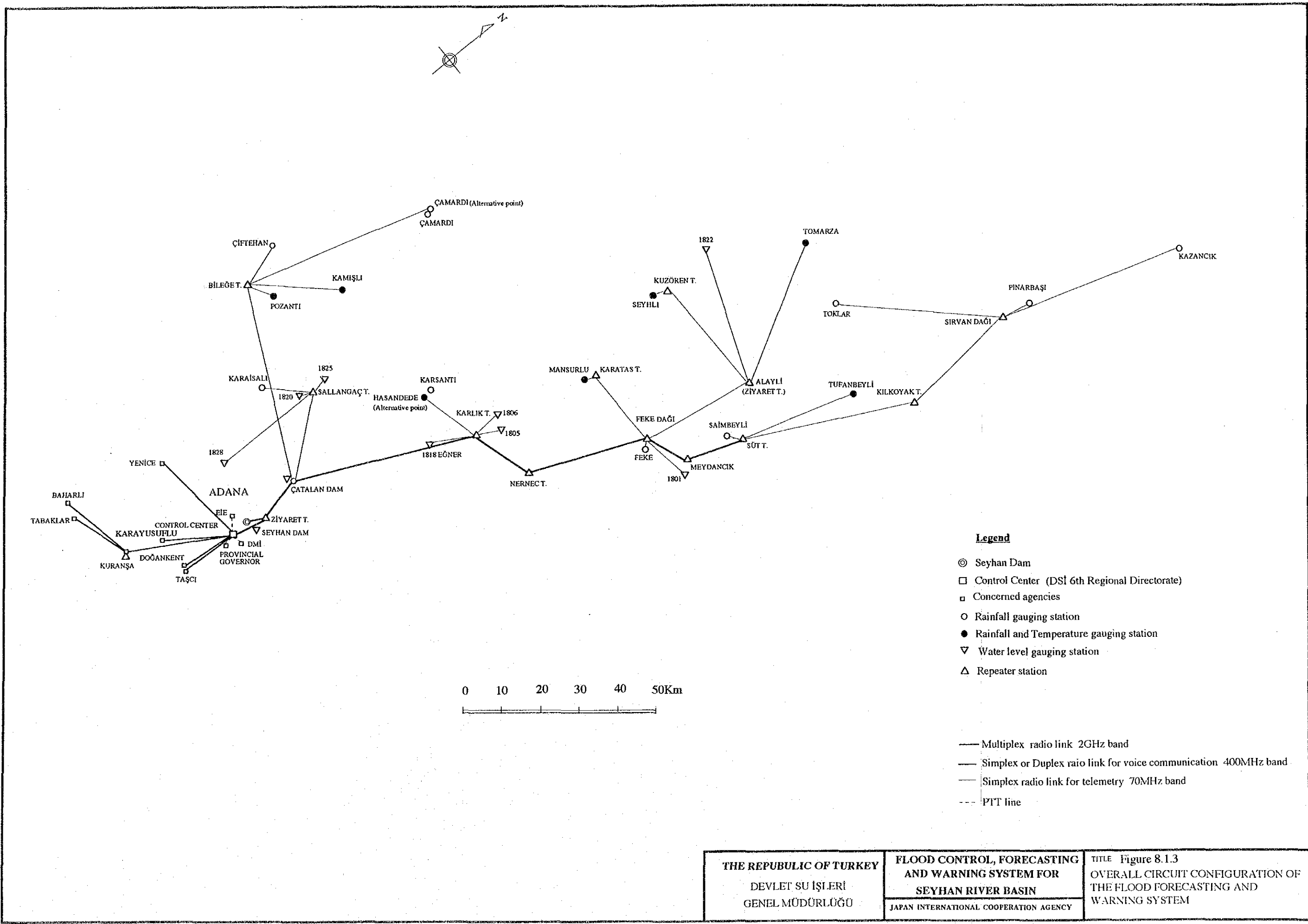


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TITLE
Figure 8.1.2
DATA COLLECTION, PROCESSING
& TRANSMISSION FLOW CHART

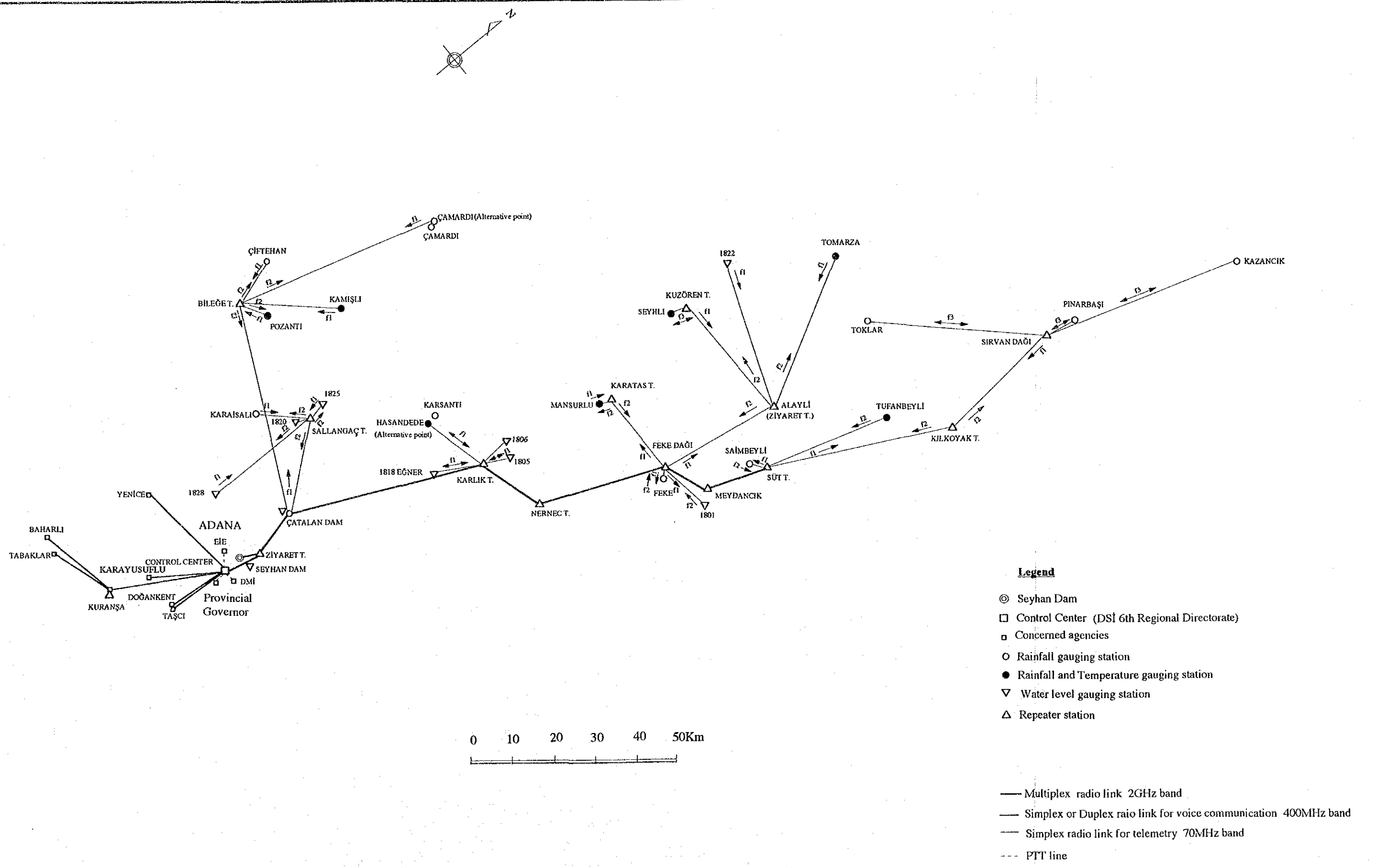


Legend

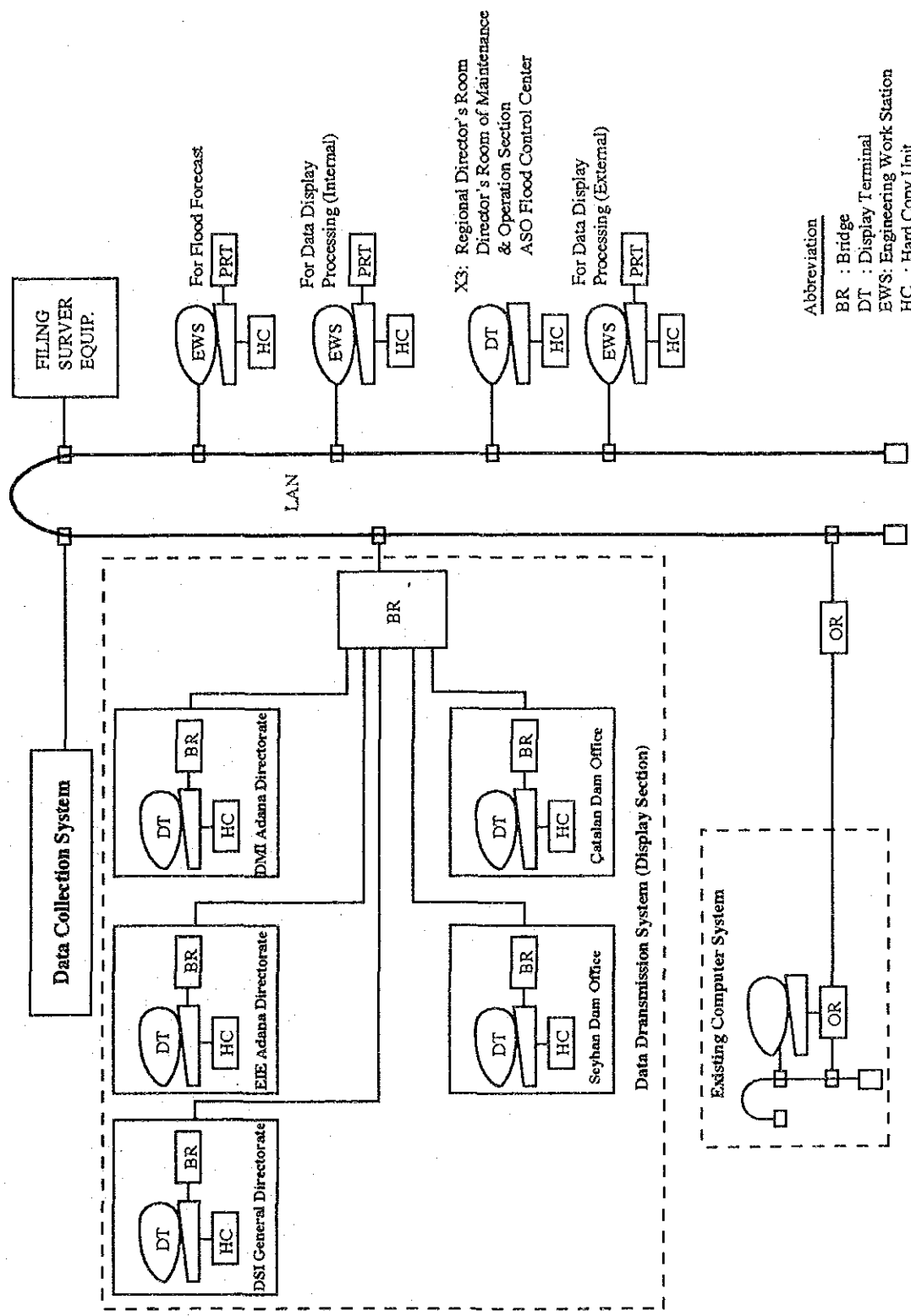
- ⊙ Seyhan Dam
- Control Center (DSI 6th Regional Directorate)
- Concerned agencies
- Rainfall gauging station
- Rainfall and Temperature gauging station
- ▽ Water level gauging station
- △ Repeater station

- Multiplex radio link 2GHz band
- Simplex or Duplex radio link for voice communication 400MHz band
- Simplex radio link for telemetry 70MHz band
- PIT line

THE REPUBLIC OF TURKEY DEVLET SU İŞLERİ GENEL MÜDÜRLÜĞÜ	FLOOD CONTROL, FORECASTING AND WARNING SYSTEM FOR SEYHAN RIVER BASIN	TITLE Figure 8.1.3 OVERALL CIRCUIT CONFIGURATION OF THE FLOOD FORECASTING AND WARNING SYSTEM
	JAPAN INTERNATIONAL COOPERATION AGENCY	



THE REPUBLIC OF TURKEY DEVLET SU İŞLERİ GENEL MÜDÜRLÜĞÜ	FLOOD CONTROL, FORECASTING AND WARNING SYSTEM FOR SEYHAN RIVER BASIN	TITLE Figure 8.2.1 RADIO FREQUENCY ASSIGNMENT PLAN OF TELEMETRY RADIO LINK
	JAPAN INTERNATIONAL COOPERATION AGENCY	

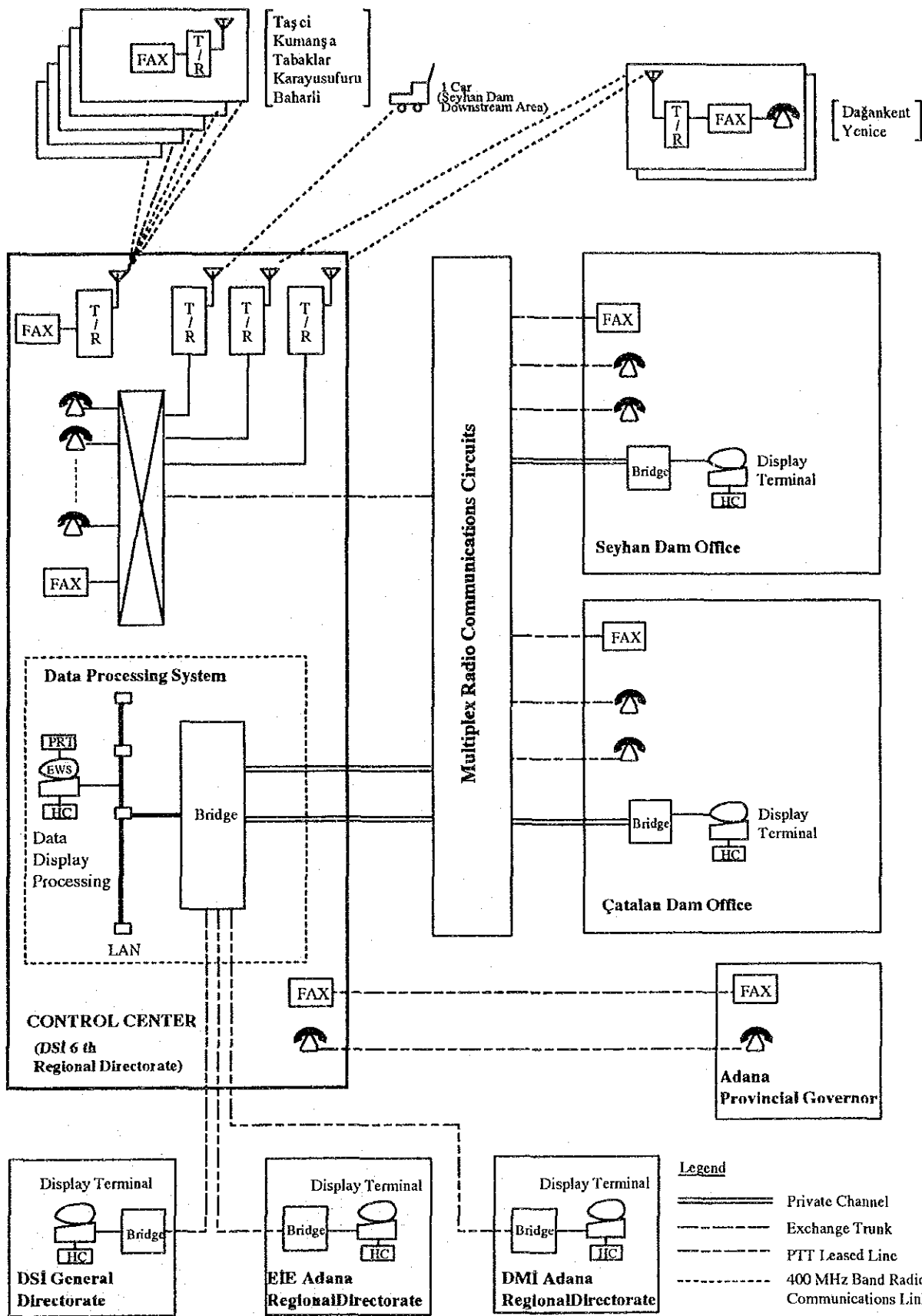


Abbreviation
 BR : Bridge
 DT : Display Terminal
 EWS: Engineering Work Station
 HC : Hard Copy Unit
 OR : Optical Repeater
 PRT : Printer

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TITLE
 Figure 8.2.2
 DATA PROCESSING SYSTEM
 CONFIGURATION

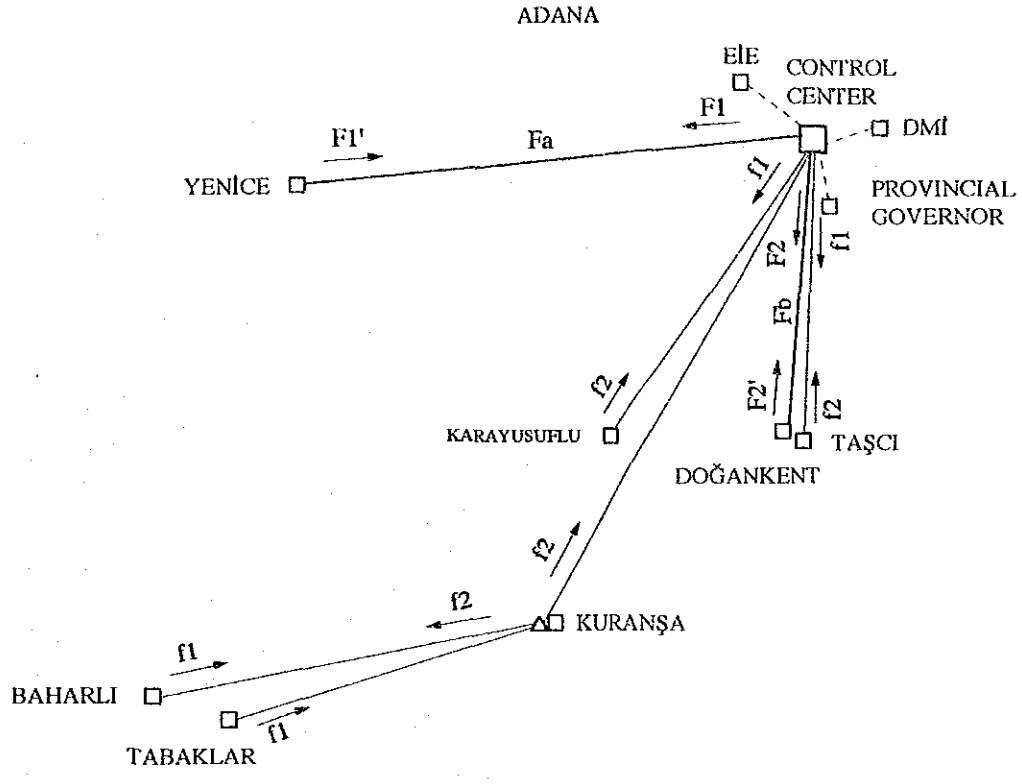
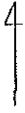


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Figure 8.2.3
DATA TRANSMISSION SYSTEM
CONFIGURATION

North



Legend

Note: Frequency assignment plan for Duplex radio link

Fa: F1 and F1'

Fb: F2 and F2'

□ Control Center (DSİ 6th Regional Directorate)

□ Concerned agencies

△ Repeater station

— Duplex radio link 400MHz band

— Simplex radio link 400MHz band

--- PTT line

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TITLE Figure 8.2.4

RADIO FREQUENCY ASSIGNMENT PLAN OF
INFORMATION TRANSMISSION SYSTEM

ABBREVIATION

BAT	: STORAGE BATTERY
BR	: BRIDGE
CB	: CONTROL BOX
CCU	: COMMUNICATION CONTROL UNIT
CU	: CONTROL UNIT
CVCF	: CONSTANT VOLTAGE AND CONSTANT FREQUENCY
DCP	: DC POWER SUPPLY EQUIPMENT
DEG	: DIESEL ENGINE GENERATOR
DT	: DISPLAY TERMINAL
EWS	: ENGINEERING WORK STATION
EXC	: EXCHANGE EQUIPMENT
FAX	: FACSIMILE EQUIPMENT
HC	: HARD COPY UNIT
IT	: ISOLATION TRANSFORMER
ITE	: INTEGRATED TERMINAL EQUIPMENT
MDE	: MIMIC DISPLAY EQUIPMENT
MR	: MICRO WAVE RADIO RELAY EQUIPMENT
MUX	: PCM MULTIPLEX TERMINAL EQUIPMENT
OC	: OPERATION CONSOLE
PDB	: POWER DISTRIBUTION BOARD
PRT	: PRINTER
REP	: TELEPHONE REPEATER
RG	: RAINFALL GAUGING EQUIPMENT
SBP	: SOLAR BATTERY PANEL
TEL	: TELEPHONE SET
TIR	: TELEPHONE INFORMING AND RESPONDING EQUIPMENT
TM	: TELEMETERING EQUIPMENT
TMP	: TEMPERATURE SENSOR
TMR	: TELEMETERING REPEATER EQUIPMENT
TSE	: TELEMETERING SUPERVISORY EQUIPMENT
UHF	: UHF RADIO EQUIPMENT
UHFR	: UHF REPEATER EQUIPMENT
WL	: WATER LEVEL GAUGING EQUIPMENT

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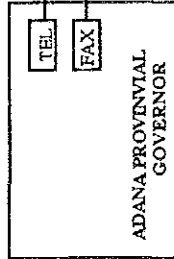
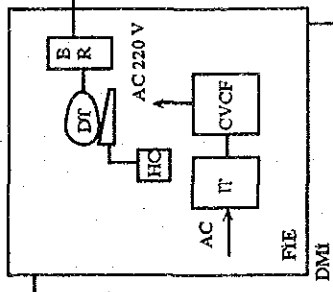
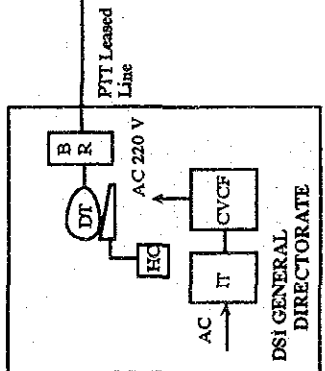
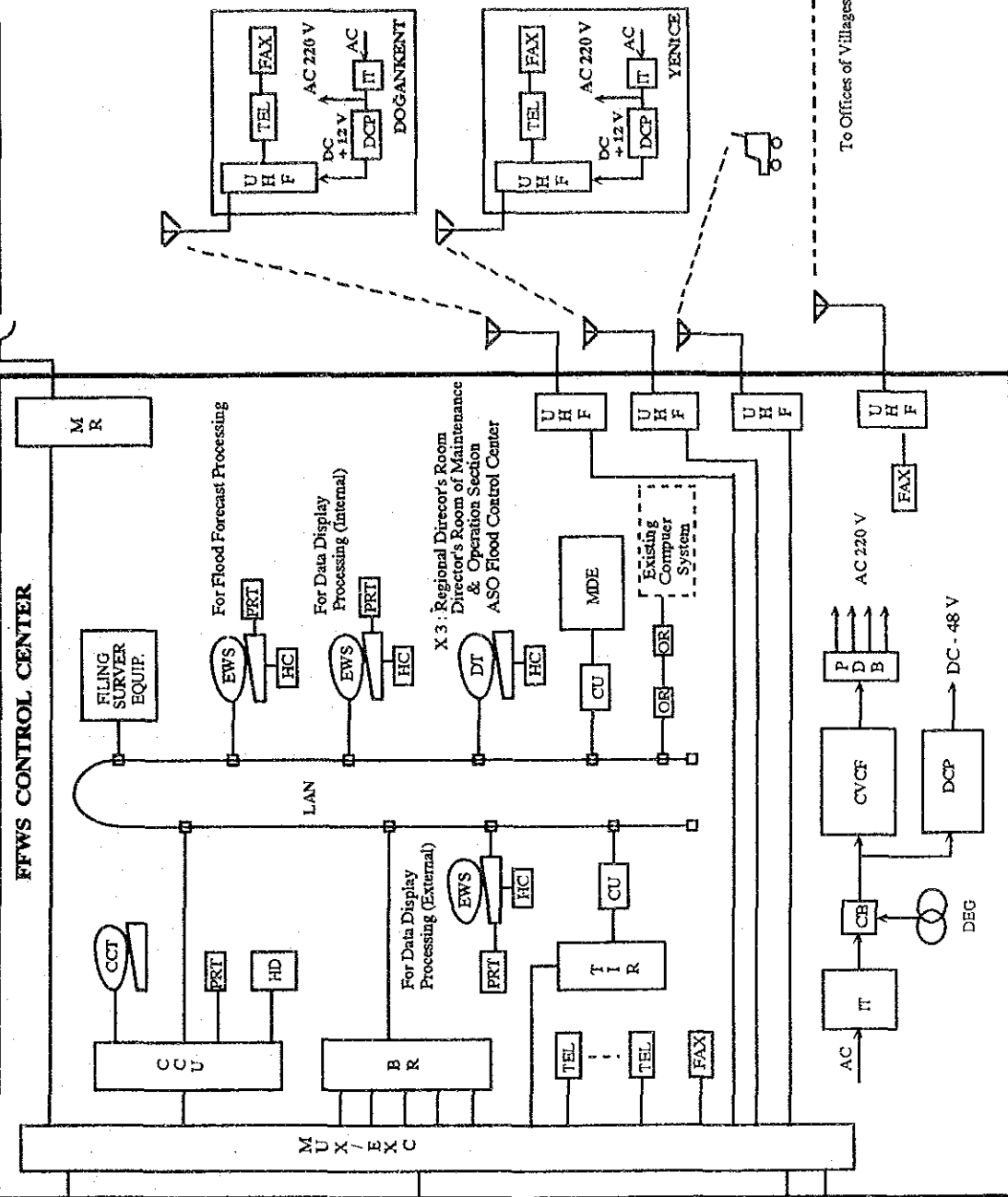
JAPAN INTERNATIONAL COOPERATION AGENCY

TITLE
Figure 8.3.1
ABBREVIATION OF SCHEMATIC
EQUIPMENT COMPOSITION OF FLOOD
FORECASTING AND WARNING SYSTEM

To ZIYARET T. (2/5)

0.9 m p

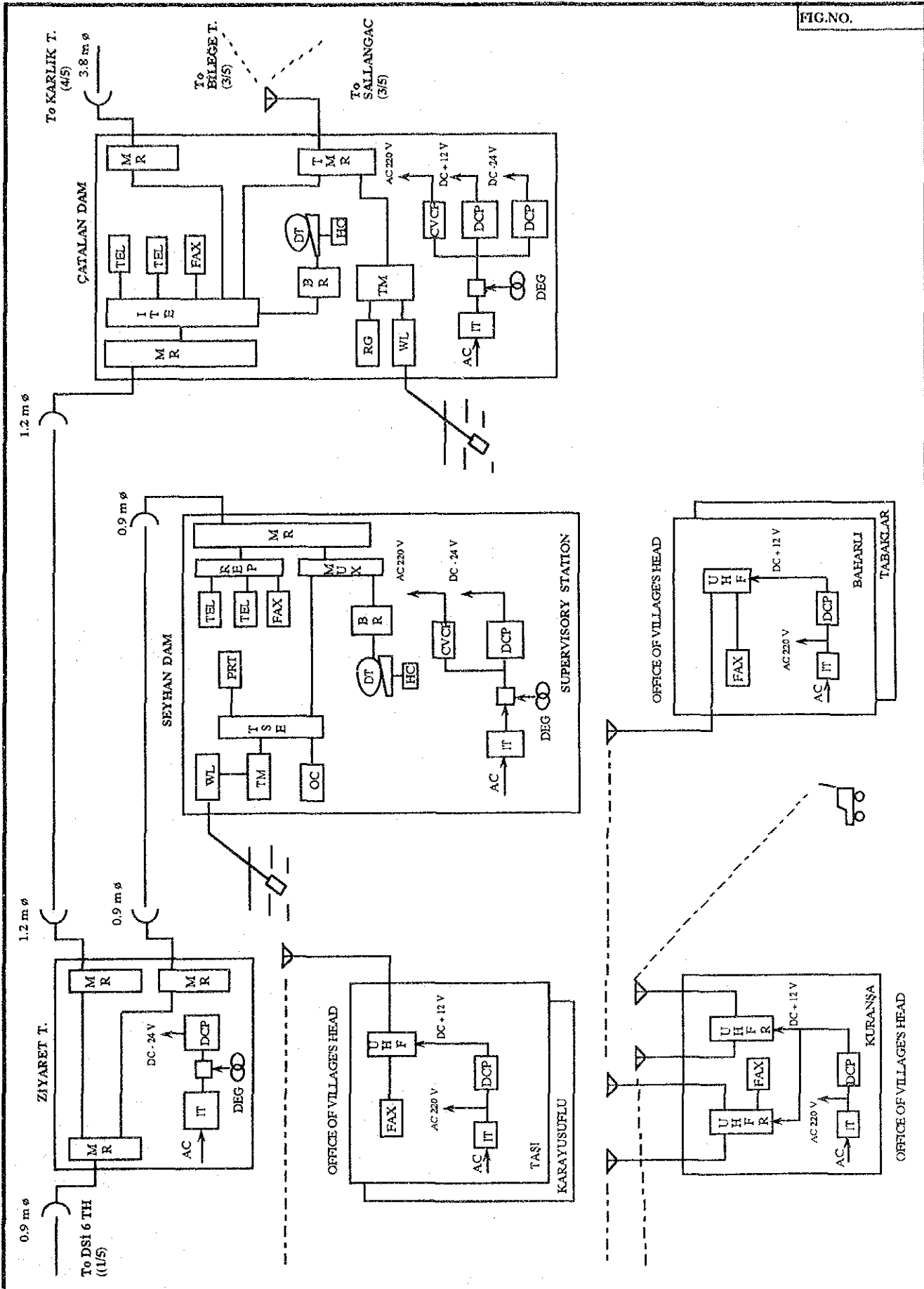
DSI 6 TH REGIONAL DIRECTORATE



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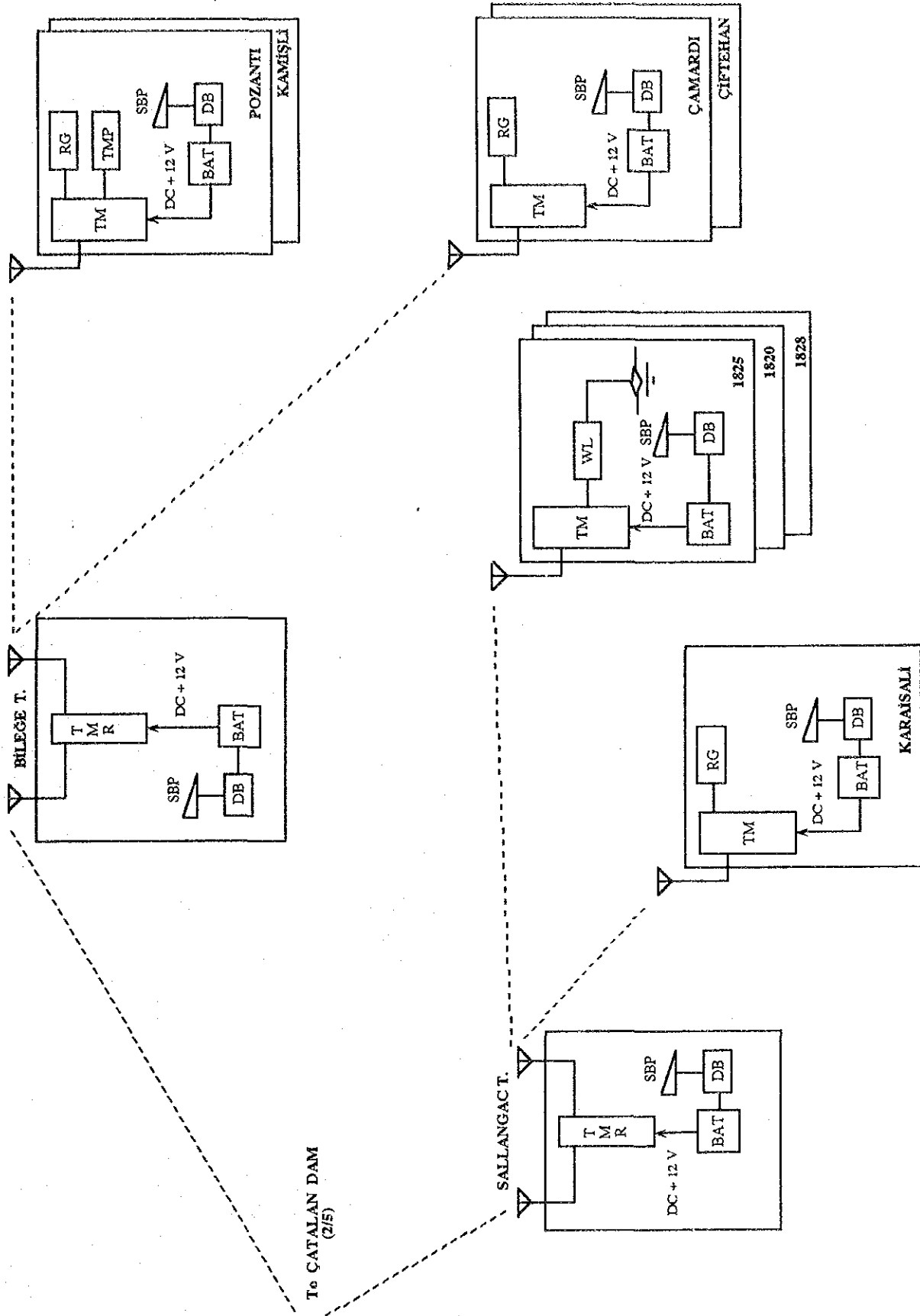
TITLE
Figure 8.3.2
SCHEMATIC EQUIPMENT COMPOSITION
OF FLOOD FORECASTING AND WARNING
SYSTEM (1/5)



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TITLE
Figure 8.3.3
SCHEMATIC EQUIPMENT COMPOSITION
OF FLOOD FORECASTING AND WARNING
SYSTEM (2/5)

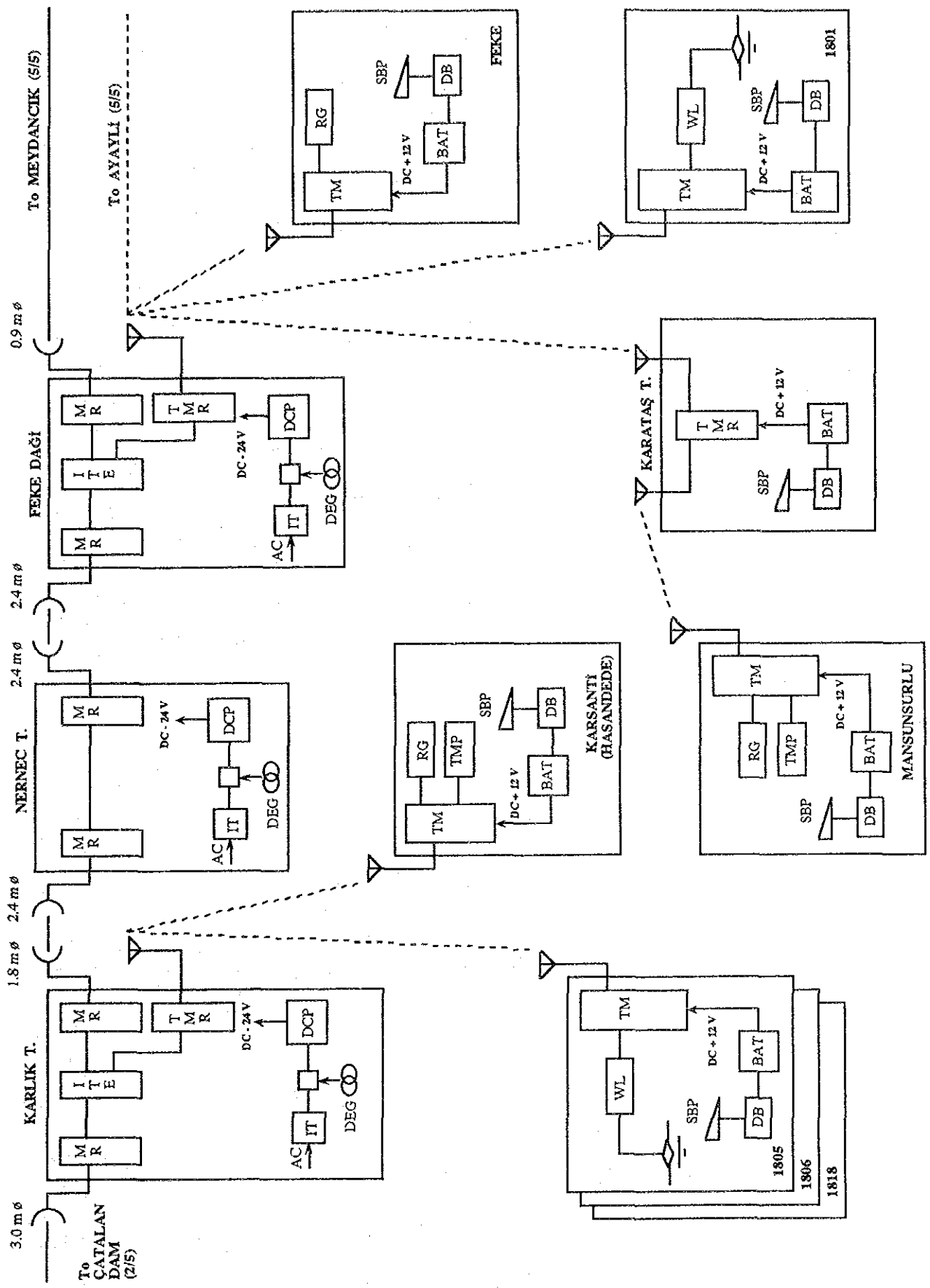


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TITLE
Figure 8.3.4
SCHEMATIC EQUIPMENT COMPOSITION
OF FLOOD FORECASTING AND WARNING
SYSTEM (3/5)



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DEVLET SU İŞLERİ
GENEL MÜDÜRLÜĞÜ

FLOOD CONTROL, FORECASTING
AND WARNING SYSTEM FOR
SEYHAN RIVER BASIN
JAPAN INTERNATIONAL COOPERATION AGENCY

TITLE
Figure 8.3.5
SCHEMATIC EQUIPMENT COMPOSITION
OF FLOOD FORECASTING AND WARNING
SYSTEM (4/5)

