HYDROLOGIC MONITORING IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, MISSISSIPPI-ALABAMA, FISCAL YEAR 1987

By Fred Morris III

U.S. GEOLOGICAL SURVEY
Open-File Report 91-477

Prepared in cooperation with the

U.S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT

Jackson, Mississippi
1991

U.S. DEPARTMENT OF THE INTERIOR
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ILLUSTRATIONS

CONVERSION FACTORS

Multiply	By	To obtain
inch (in.)	25.40	millimeter
foot (ft)	0.3048	meter
mile (mi)	1.609	kilometer
square mile (mi^2)	2.590	square kilometer
acre-foot (acre-ft)	1,233	cubic meter
cubic foot per second (ft^3/s)	0.02832	cubic meter per second
gallon per minute (gal/min)	0.06308	liter per second
degree Fahrenheit (°F)	°C = 5/9 (°F-32)	degree Celsius
micromho per centimeter at 25 °Celsius (umho/cm at 25 °C)	1.000	microsiemens per centimeter at 25 °Celsius

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called "Mean Sea Level of 1929."

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ABSTRACT

This report, the fourteenth in a series of annual reports, presents hydrologic data collected in the area of the Tennessee-Tombigbee Waterway during the fiscal year ending September 30, 1987. Included in this report are data on ground-water levels and quality; surface-water stage, discharge, and quality; and disposal-area water levels and water quality. These data were obtained at the request of the U.S. Army Corps of Engineers, Mobile District, as part of a comprehensive program to monitor the hydrologic effects of construction and operation of the Waterway.

HYDROLOGIC MONITORING

Surface-water sites and observation wells in the original hydrologic monitoring network, used to define hydrologic conditions in the area of the Tennessee-Tombigbee Waterway prior to construction, are described by Brahana and others (1974) in the COE report, "First Supplemental Environmental Report, Continuing Environmental Studies, Tennessee-Tombigbee Waterway, Alabama and Mississippi." The present hydrologic monitoring network includes:

- Major aquifers that may have been stressed by the Waterway construction and operation;
- Surface-water sites near locks and dams where the effects of construction may have been greatest, or at sites of inflow or outflow;
- Areas of known or suspected hydrologic problems;
- Selected sites on and near Pickwick Lake and Demopolis Lake.

The purpose of the present hydrologic monitoring network is to document changes in the hydrologic environment that may occur during operation of the Waterway. The locations of all the hydrologic monitoring sites in the vicinity of the Waterway at which data have been collected since the beginning of the project are shown in figures 1-10, except for a few sites which are not shown because of the limited coverage of the maps (furnished by the U.S. Army Corps of Engineers, Mobile District).

Ground Water

Network

The present ground-water network consists of 279 wells in the regional aquifers and the shallower alluvial and terrace aquifers. The relation between shallow water-bearing units and regional aquifers is described by Brahana and others (1974). The descriptions of wells in the network are tabulated in Appendix A.

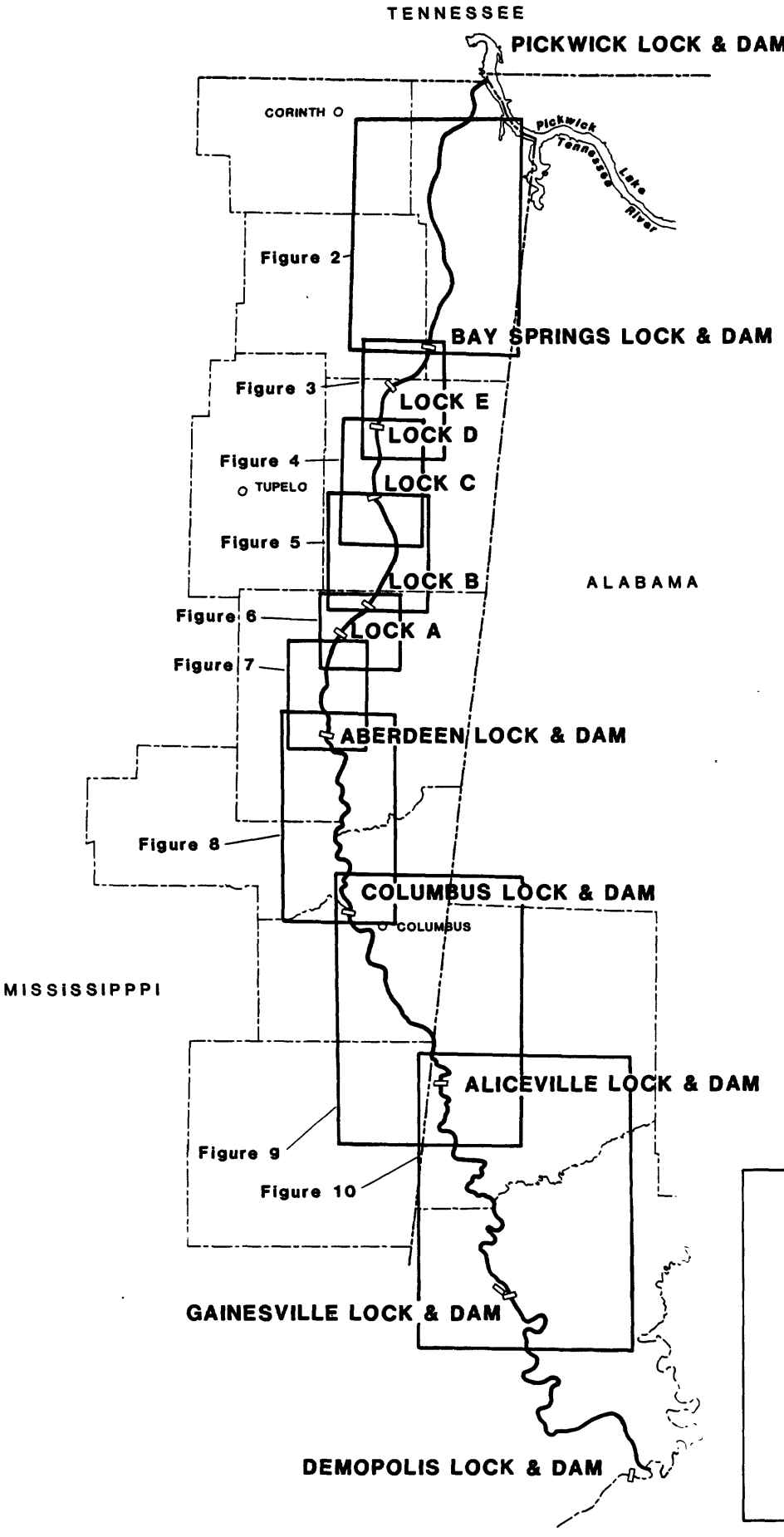
Levels

Under natural conditions, water levels in wells fluctuate seasonally and reflect recharge to and discharge from aquifers. Water-level fluctuations ranging from less than 1 foot to more than 10 feet per year have been observed in the aquifers in the study area. Water-level fluctuations generally were larger in the alluvial and terrace aquifers than in the regional aquifers.

During FY87, water levels in all 279 observation wells in the network were scheduled to be measured quarterly by the U.S. Geological Survey. However, seven wells (74B, 95A, 95B, 96A, GW92A, TTM5A, and W6-3) were destroyed during the year and 10 (14A, 14C, 23D, 23I, 23L, 23O, 43A, 45A, GW97, and 6DP164) were either dry or could not be measured because of obstructions in the wells. Hydrographs showing water-level variations in the wells for the period of U.S. Geological Survey (USGS) record are presented in Appendix A.

Quality

Water-quality data were collected at four wells in the network and at nine additional wells selected by the COE. Results of the field determinations made by the USGS are given in Appendix A, the results of the COE laboratory analyses are presented in Appendix COE.



TENNESSEE-TOMBIGBEE WATERWAY
HYDROLOGIC MONITORING PROGRAM

INDEX MAP

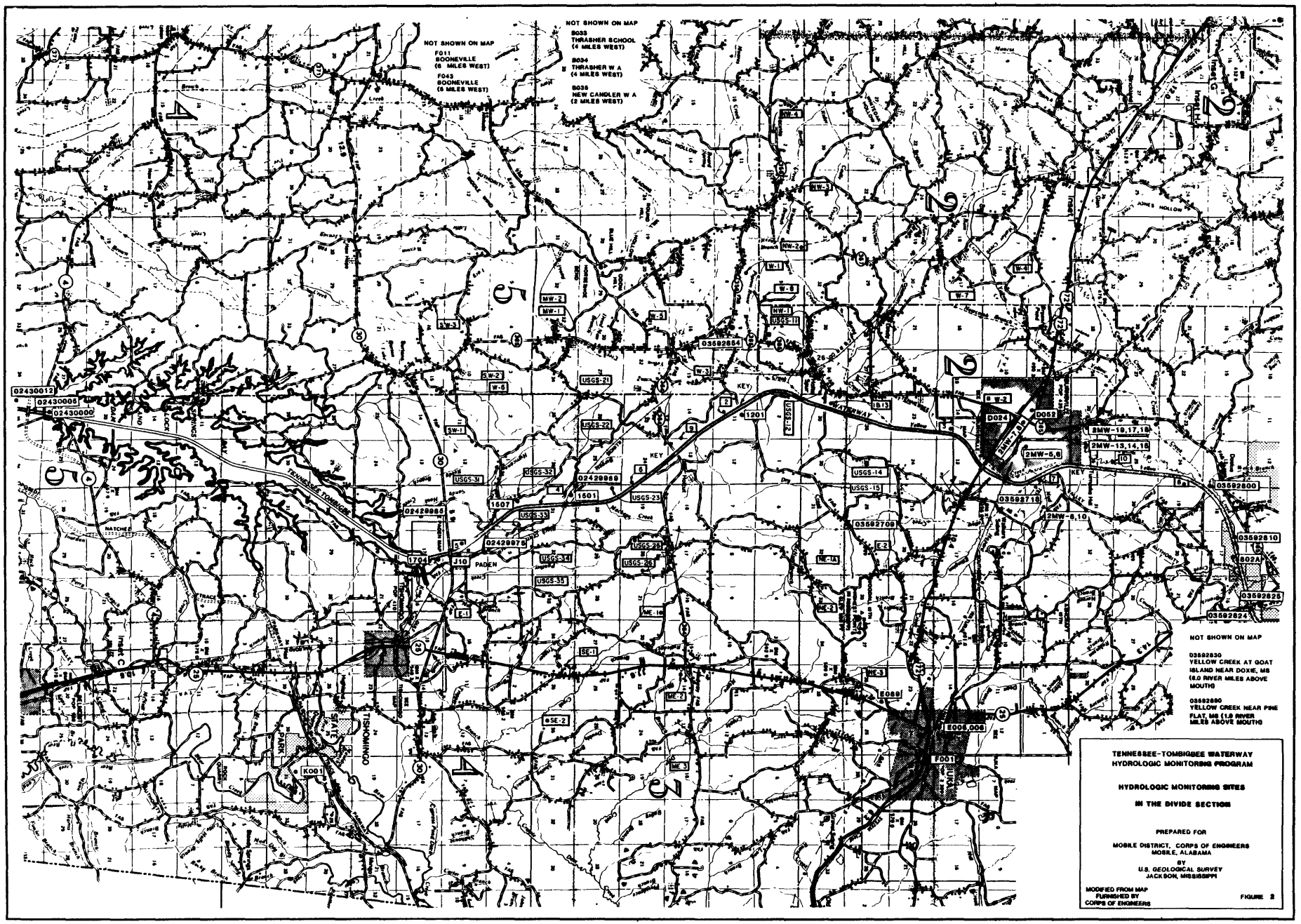
PREPARED FOR

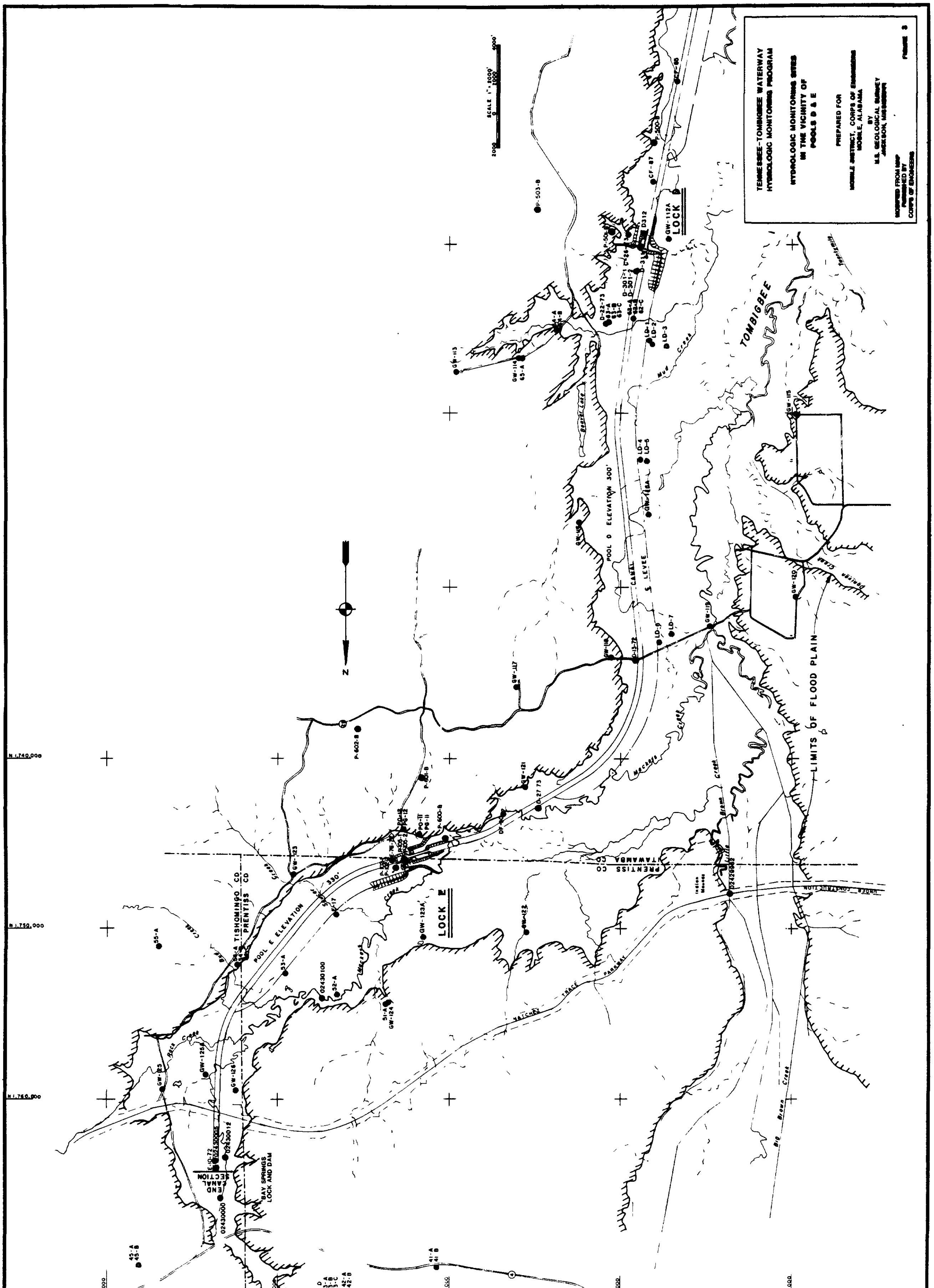
MOBILE DISTRICT, CORPS OF ENGINEERS
MOBILE, ALABAMA

BY

U.S. GEOLOGICAL SURVEY
JACKSON, MISSISSIPPI

FIGURE 1


NOT SHOWN ON MAP
F011
BOONEVILLE
(6 MILES WEST)
F043
BOONEVILLE
(5 MILES WEST)
NOT SHOWN ON MAP
8033
THRASHER SCHOOL
(4 MILES WEST)
8034
THRASHER W A
(4 MILES WEST)
8035
NEW CANDLER W A
(2 MILES WEST)
TENNESSEE-TOMBIGBEE WATERWAY
TENNESSEE TOMBIGBEE
PADEN
TISHOMINGO
STATE PARK
NOT SHOWN ON MAP
03592830
YELLOW CREEK AT GOAT ISLAND NEAR DOXIE, MS
(8.0 RIVER MILES ABOVE MOUTH)
03592890
YELLOW CREEK NEAR PINE FLAT, MS (1.8 RIVER MILES ABOVE MOUTH)
TENNESSEE-TOMBIGBEE WATERWAY
HYDROLOGIC MONITORING PROGRAM
HYDROLOGIC MONITORING SITES
IN THE DIVIDE SECTION
PREPARED FOR
MOBILE DISTRICT, CORPS OF ENGINEERS
MOBILE, ALABAMA
BY
U.S. GEOLOGICAL SURVEY
JACKSON, MISSISSIPPI
MODIFIED FROM MAP
FURNISHED BY
CORPS OF ENGINEERS
FIGURE 2


TENNESSEE-TOMBIGBEE WATERWAY
HYDROLOGIC MONITORING PROGRAM
HYDROLOGIC MONITORING SITES
IN THE VICINITY OF
POOLS D & E
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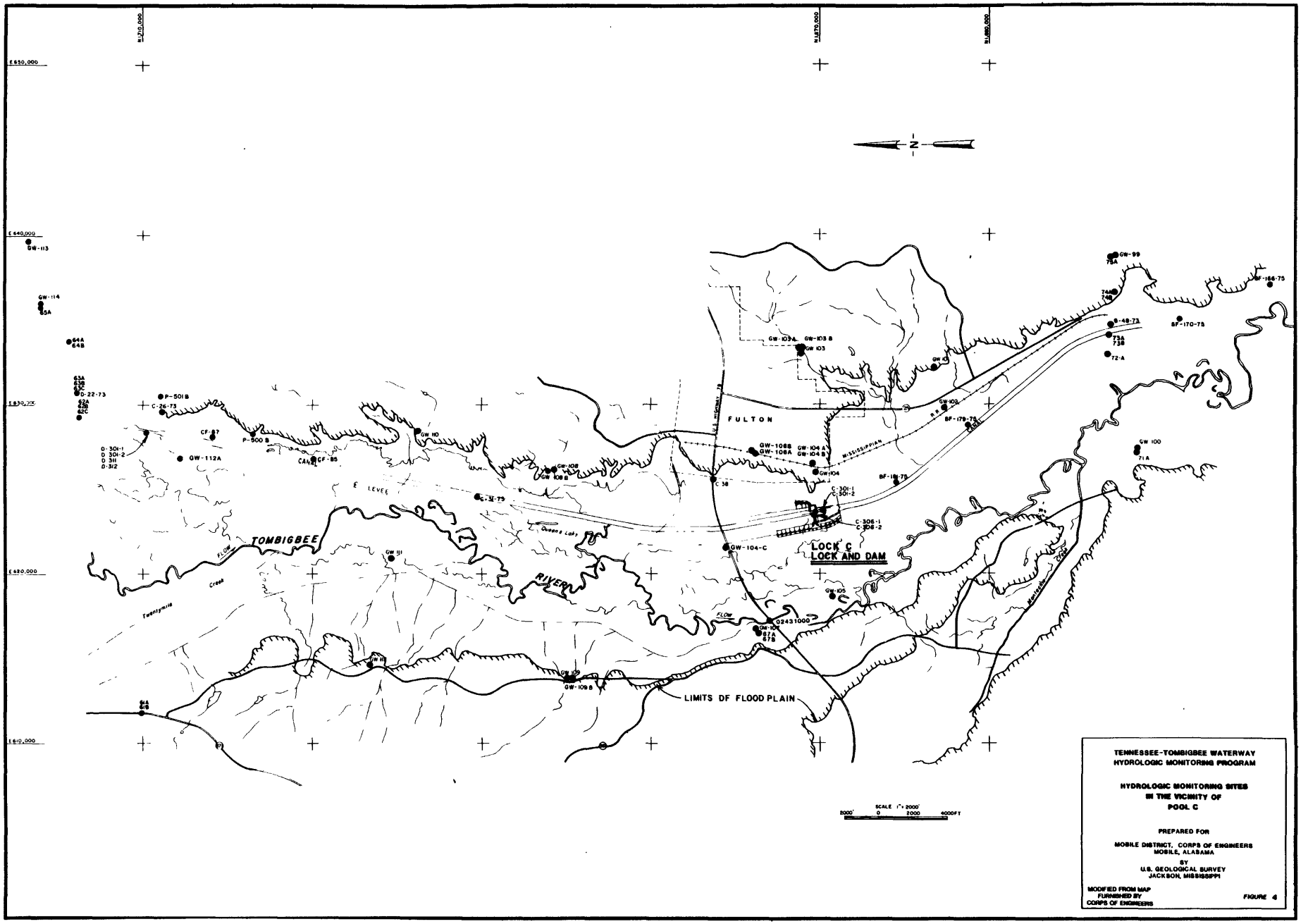
MODIFIED FROM MAP
FURNISHED BY
CORPS OF ENGINEERS
Figure 3
LOCK D
LOCK E
POOL D ELEVATION 300'
POOL E ELEVATION 330'
CANAL
LEVEE
TOMBIGBEE
LIMITS OF FLOOD PLAIN
TISHOMINGO CO
PRENTISS CO
ITAWAMBA CO
BAY SPRINGS LOCK AND DAM
END CANAL SECTION
N



TENNESSEE-TOMBIGBEE WATERWAY
HYDROLOGIC MONITORING PROGRAM

HYDROLOGIC MONITORING SITES
IN THE VICINITY OF
POOL C

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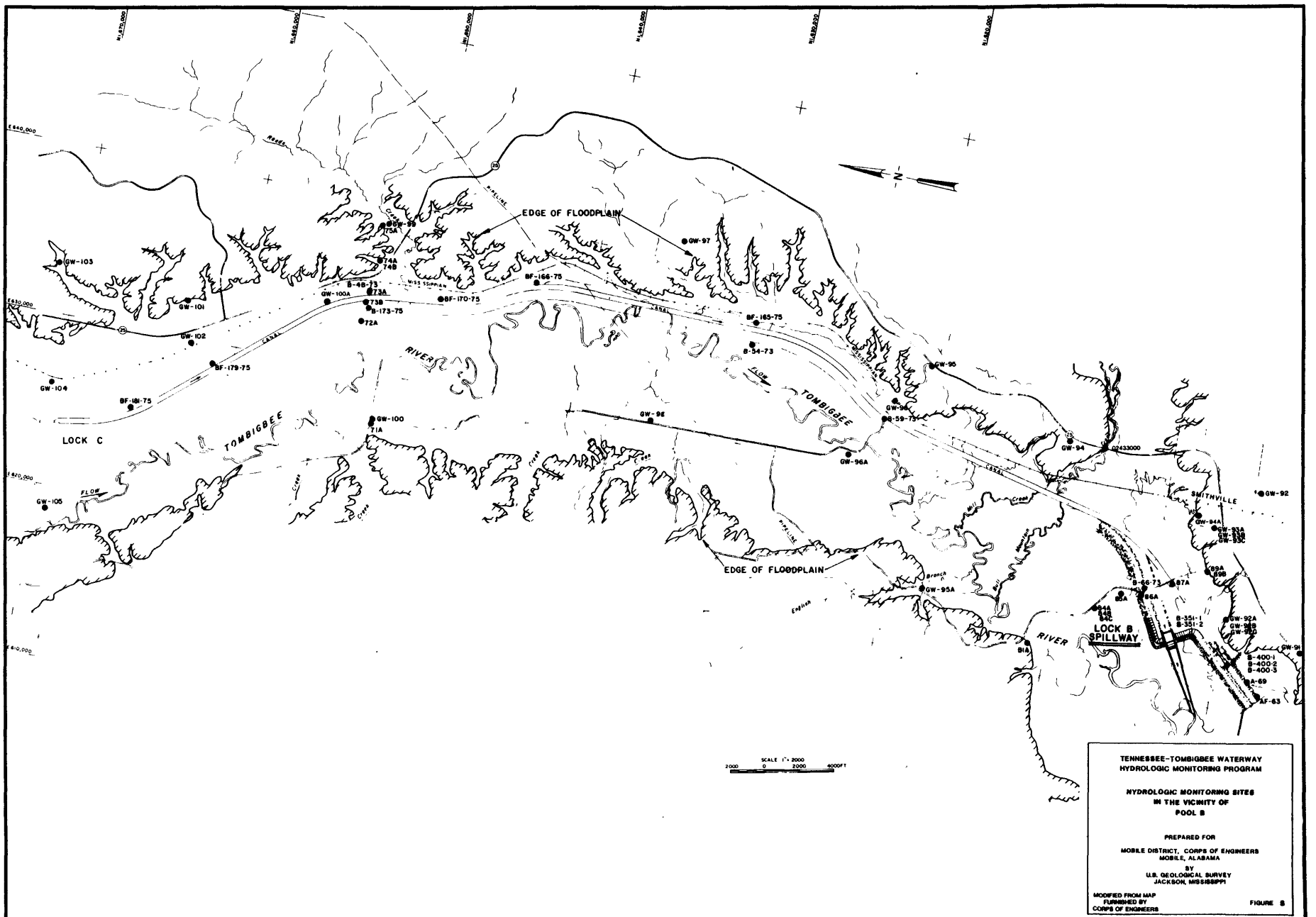
FIGURE 4



TENNESSEE-TOMBIGBEE WATERWAY
HYDROLOGIC MONITORING PROGRAM

HYDROLOGIC MONITORING SITES
IN THE VICINITY OF
POOL B

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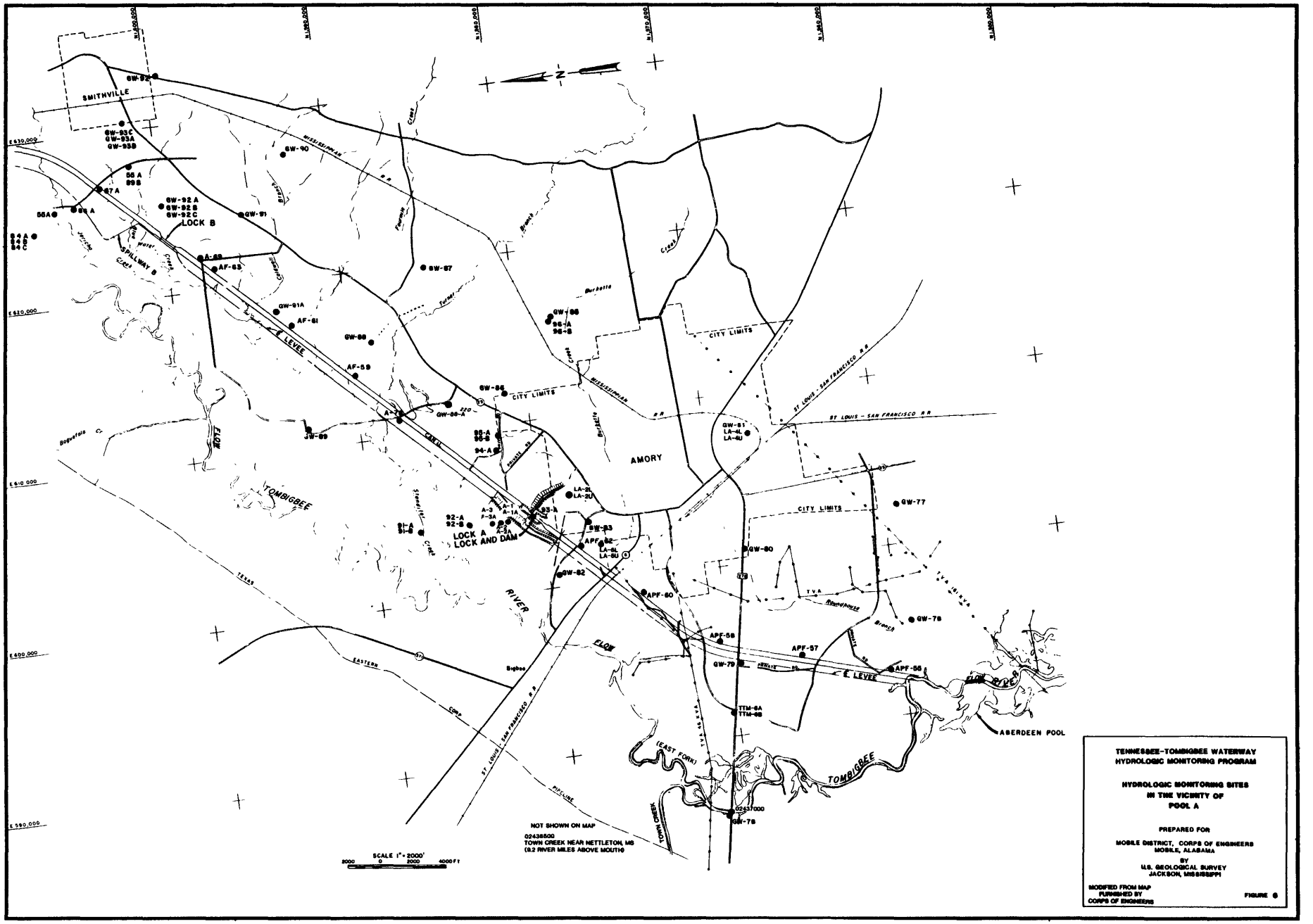
FIGURE 8



TENNESSEE-TOMBIGBEE WATERWAY
HYDROLOGIC MONITORING PROGRAM

HYDROLOGIC MONITORING SITES
IN THE VICINITY OF
POOL A

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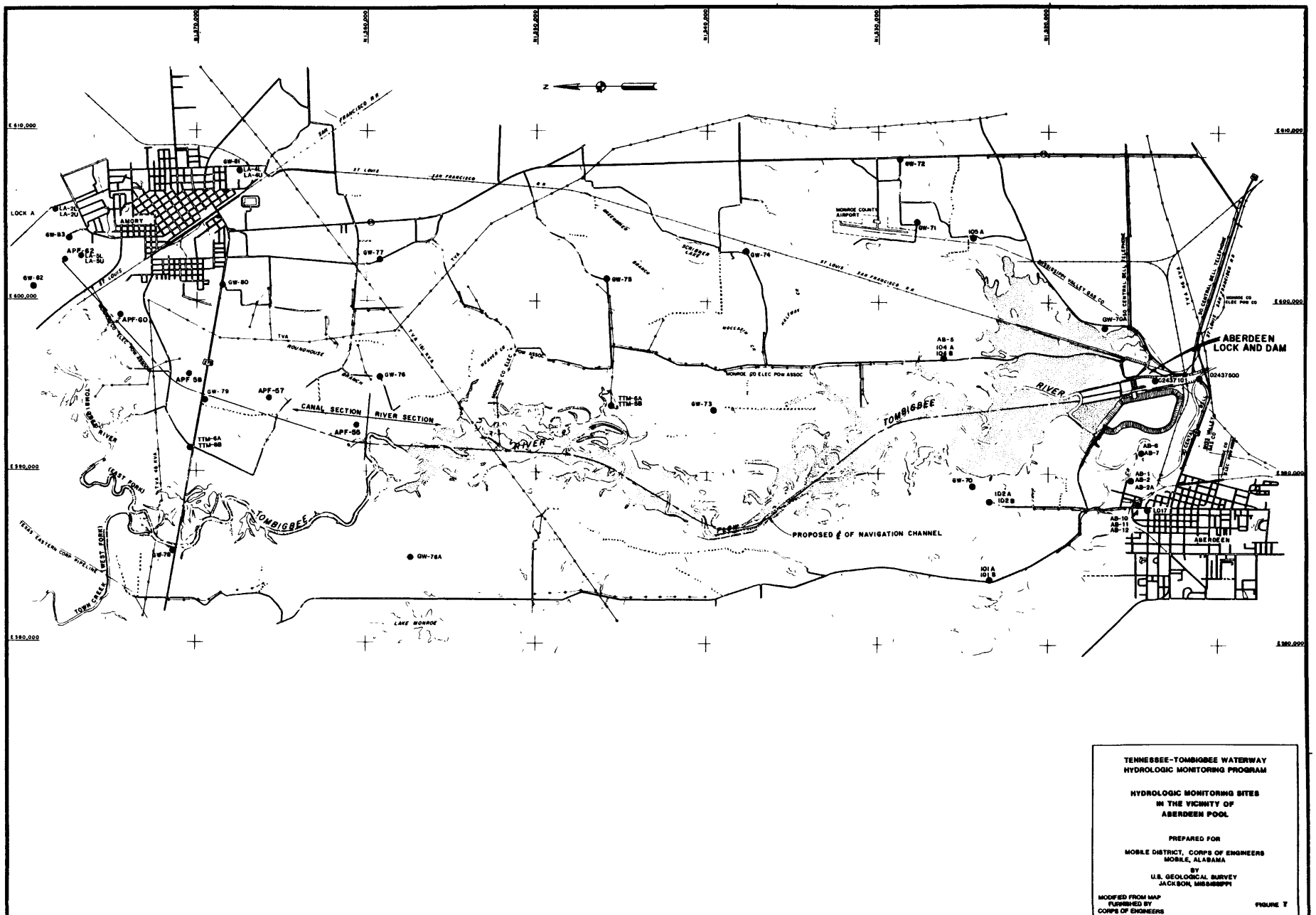
FIGURE 6



TENNESSEE-TOMBIGBEE WATERWAY
HYDROLOGIC MONITORING PROGRAM

HYDROLOGIC MONITORING SITES
IN THE VICINITY OF
ABERDEEN POOL

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JACKSON, MISSISSIPPI

MODIFIED FROM MAP
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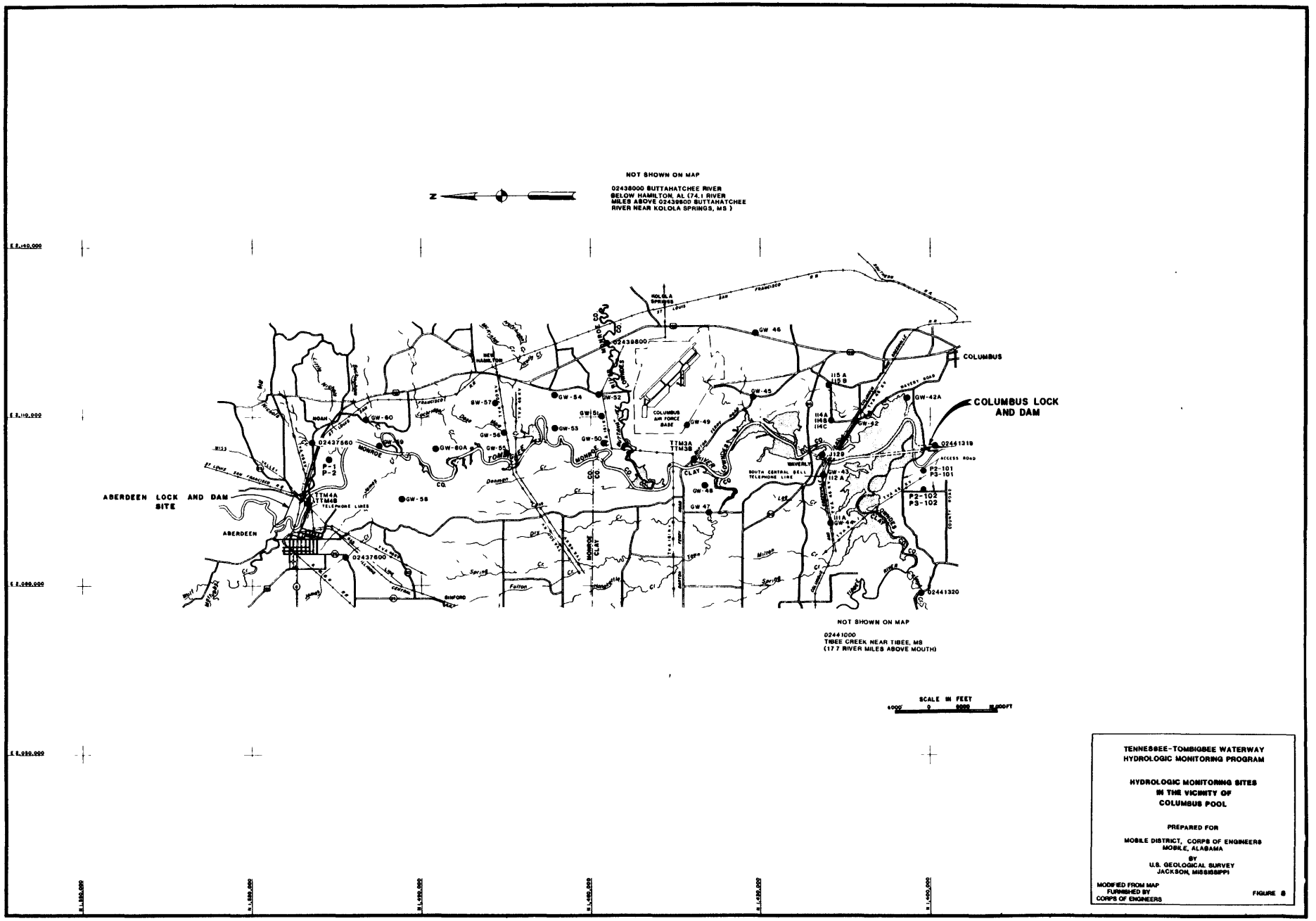
FIGURE 7


NOT SHOWN ON MAP
02438000 BUTTAHATCHEE RIVER BELOW HAMILTON, AL (74.1 RIVER MILES ABOVE 02439800 BUTTAHATCHEE RIVER NEAR KOLOLA SPRINGS, MS)
N
E 2,140,000
E 2,110,000
E 2,080,000
E 2,050,000
N 1,530,000
N 1,520,000
N 1,510,000
N 1,500,000
N 1,490,000
KOLOLA SPRINGS
02439800
GW-46
COLUMBUS
COLUMBUS LOCK AND DAM
GW-42A
GW-45
GW-49
GW-52
GW-54
GW-57
GW-60
GW-59
GW-60A
GW-56
GW-55
GW-53
GW-51
GW-50
GW-58
GW-48
GW-47
GW-44
GW-43
GW-42
02437560
02437600
02441319
02441320
ABERDEEN LOCK AND DAM SITE
ABERDEEN
SANFORD
NEW HAMILTON
COLUMBUS AIR FORCE BASE
P-1
P-2
TTM4A
TTM4B
TTM3A
TTM3B
P2-101
P3-101
P2-102
P3-102
NOT SHOWN ON MAP
02441000
TIBEE CREEK NEAR TIBEE, MS
(17.7 RIVER MILES ABOVE MOUTH)
SCALE IN FEET
4000' 0 8000 16,000FT
TENNESSEE-TOMBIGBEE WATERWAY
HYDROLOGIC MONITORING PROGRAM
HYDROLOGIC MONITORING SITES
IN THE VICINITY OF
COLUMBUS POOL
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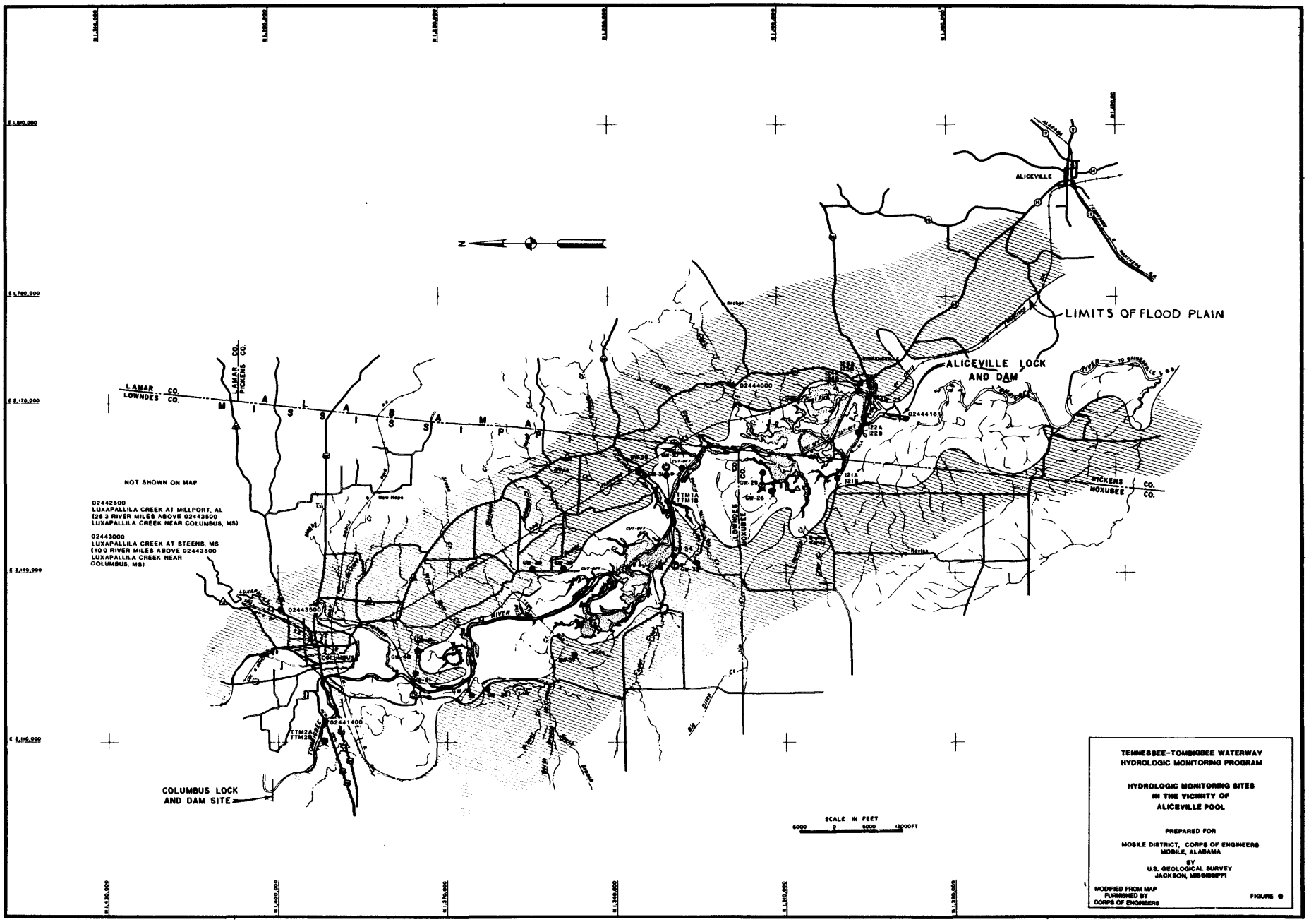
MODIFIED FROM MAP
FURNISHED BY
CORPS OF ENGINEERS
FIGURE 8


LIMITS OF FLOOD PLAIN
ALICEVILLE LOCK AND DAM
ALICEVILLE
COLUMBUS LOCK AND DAM SITE
LAMAR CO.
LOWNDES CO.
LAMAR CO.
PICKENS CO.
PICKENS CO.
NOXUBEE CO.
MISSISSIPPI
NOT SHOWN ON MAP
02442500
LUXAPALLILA CREEK AT MILLPORT, AL
(25 3 RIVER MILES ABOVE 02443500
LUXAPALLILA CREEK NEAR COLUMBUS, MS)
02443000
LUXAPALLILA CREEK AT STEENS, MS
(10 0 RIVER MILES ABOVE 02443500
LUXAPALLILA CREEK NEAR
COLUMBUS, MS)
02444000
02444161
02443500
02441400
SCALE IN FEET
6000 0 6000 12000FT
TENNESSEE-TOMBIGBEE WATERWAY
HYDROLOGIC MONITORING PROGRAM
HYDROLOGIC MONITORING SITES
IN THE VICINITY OF
ALICEVILLE POOL
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MODIFIED FROM MAP
FURNISHED BY
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FIGURE 6

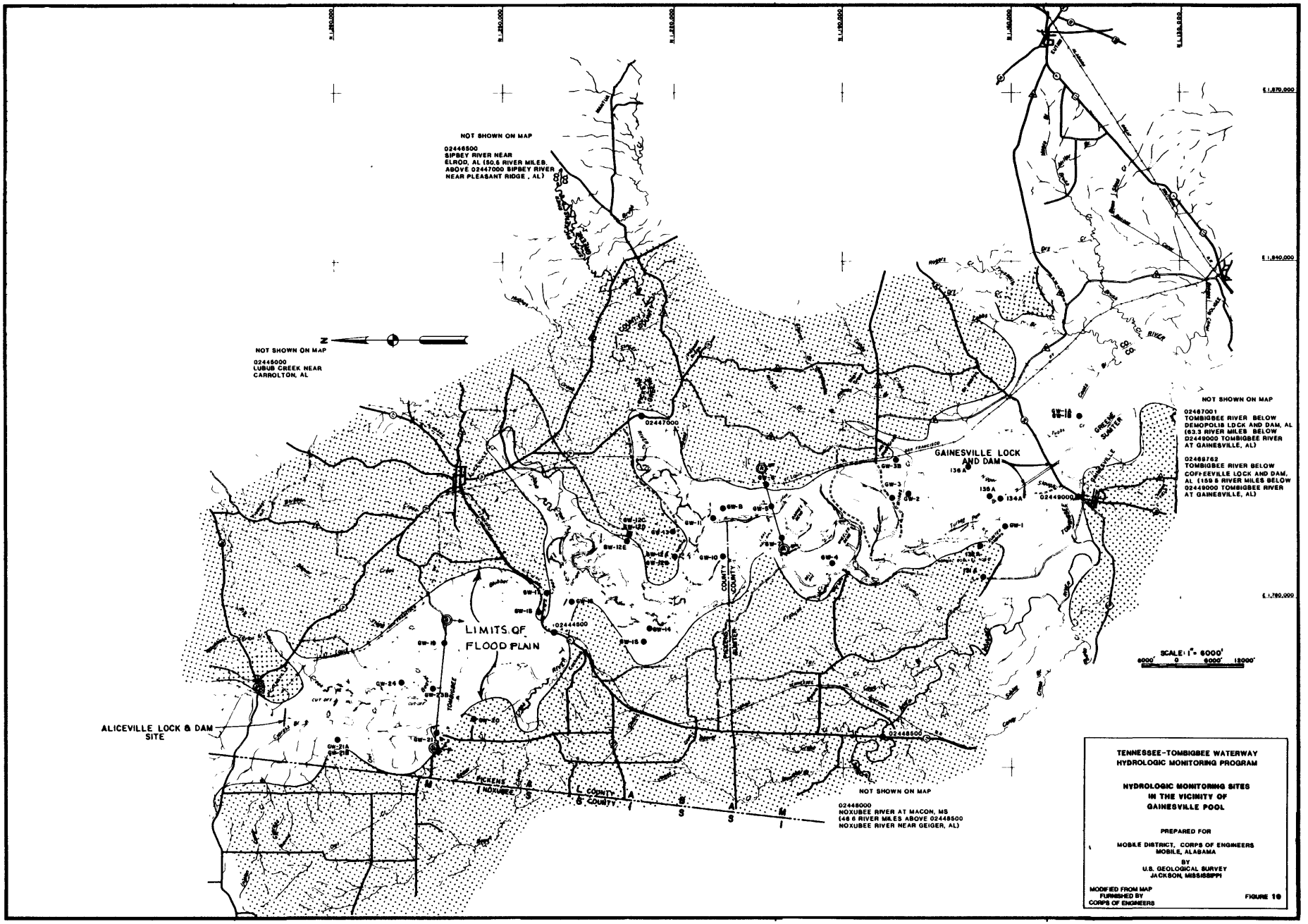
NOT SHOWN ON MAP
02446500
SIPSEY RIVER NEAR
ELROD, AL (50.6 RIVER MILES
ABOVE 02447000 SIPSEY RIVER
NEAR PLEASANT RIDGE, AL)
NOT SHOWN ON MAP
02448000
LUBUB CREEK NEAR
CARROLTON, AL
N
02447000
GAINESVILLE LOCK
AND DAM
136A
135A
134A
02448000
LIMITS OF
FLOOD PLAIN
02444500
02448500
ALICEVILLE LOCK & DAM
SITE
PICKENS
COUNTY
GREENE
COUNTY
SUMTER
COUNTY
NOXUBEE
COUNTY
ALABAMA
MISSISSIPPI
NOT SHOWN ON MAP
02448000
NOXUBEE RIVER AT MACON, MS
(46.6 RIVER MILES ABOVE 02448500
NOXUBEE RIVER NEAR GEIGER, AL)
NOT SHOWN ON MAP
02467001
TOMBIGBEE RIVER BELOW
DEMOPOLIS LOCK AND DAM, AL
(63.3 RIVER MILES BELOW
02448000 TOMBIGBEE RIVER
AT GAINESVILLE, AL)
02468762
TOMBIGBEE RIVER BELOW
COFFEEVILLE LOCK AND DAM,
AL (159.5 RIVER MILES BELOW
02448000 TOMBIGBEE RIVER
AT GAINESVILLE, AL)
E 1,870,000
E 1,840,000
E 1,780,000
SCALE 1" = 6000'
6000' 0 6000' 12000'
TENNESSEE-TOMBIGBEE WATERWAY
HYDROLOGIC MONITORING PROGRAM
HYDROLOGIC MONITORING SITES
IN THE VICINITY OF
GAINESVILLE POOL
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FIGURE 10

Surface Water

Network

The surface-water network, which is designed to monitor water quality, currently consists of 26 sites in the area of the Tennessee-Tombigbee Waterway. Descriptions of these sites are tabulated in Appendix B.

Stage and Discharge

Surface-water stage and discharge data were collected at numerous sites (including most sites at which water-quality data were collected) in the area of the Tennessee-Tombigbee Waterway. The collection of stage and discharge data at these sites was funded by cooperative programs with various State and Federal agencies. Data collected at these sites are available either in the Jackson, Miss., or Tuscaloosa, Ala., office of the USGS.

Quality

Water-quality data were collected by the USGS at 26 surface-water sites in the network during the 1987 reporting period (Appendix B). Two sites were added at the beginning of the 1987 reporting period; two sites were discontinued. Changes were made at the following sites:

New sites:

342201088242935	TTW Lock "D" Pool Sedimentation Range 1AD
340103088285435	TTW Lock "A" Pool Sedimentation Range 1AA

Discontinued sites:

02446500	Sipsey River near Elrod, Ala.
02448500	Noxubee River near Geiger, Ala.

Data for 02441000 Tibbee Creek near Tibbee, Miss., may not represent water-quality conditions upstream of the sampling site. Normal pool elevation of 163.00 feet above sea level for Columbus Lake creates a stage of about 8.8 feet at the Tibbee Creek site, resulting in variable backwater conditions. Measurements of stream discharge were not obtained during backwater conditions.

Results of the COE laboratory analyses are given in Appendix COE. Results of the TVA laboratory analyses are tabulated in Appendix TVA.

Data for suspended-sediment concentration, particle-size distribution of suspended sediment, and particle-size distribution of stream bed material were collected at 02436500 Town Creek near Nettleton, Miss. Data for suspended-sediment concentration and particle-size distribution of stream bed material were collected at the following sites:

332929088273300	TTW Aliceville Lake above Columbus Bend
02441498	Tombigbee River Columbus Bend SR 11B at Columbus, Miss.
332751088261000	TTW Aliceville Lake Columbus Cut
3321120882235	TTW Aliceville Lake above Hairston Bend
3321000882248	TTW Aliceville Lake Hairston Bend SR 11HB
3320300882122	TTW Aliceville Lake Hairston Cut
02448000	Noxubee River at Macon, Miss.
323704087542400	TTW Demopolis Lake above Rattlesnake Bend SR 12CA
323653087540800	TTW Demopolis Lake Rattlesnake Bend SR RB1
323642087541800	TTW Demopolis Lake Rattlesnake Cut SR 12CB.

Specific conductance and water temperature were measured daily at these 10 sites, and miscellaneous samples were collected periodically at two sites on the lower Tombigbee River: 02449000 Tombigbee River at Gainesville, Ala. (monthly), and 02469762 Tombigbee River below Coffeeville Lock and Dam, Ala. (quarterly). The results of these USGS measurements and analyses are presented in Appendix B. Collection of these data was funded by cooperative agreements with various State and Federal agencies.

Disposal Area

The present disposal area network consists of two wells in disposal area 1704 (fig. 2). One well is open in the cast overburden material and the other is open in the natural material below the cast overburden material. The purpose of data collection is to monitor water levels in areas of cast overburden material and the quality of the water passing through the material.

Water samples were collected and water levels were measured semiannually by the USGS during the 1987 reporting period. Descriptions of the two wells and data collected at those sites are tabulated in Appendix C. The results of COE laboratory analyses of these samples are tabulated in Appendix COE.

QUALITY ASSURANCE

U.S. Geological Survey

Ground-Water Levels

The collection, analysis, and computation of ground-water level records are conducted in accordance with techniques and procedures established by the USGS and are within the guidelines recommended in the "National Handbook of Recommended Methods for Water-Data Acquisition" (Office of Water Data Coordination, 1977).

Surface-Water Stage and Discharge

The collection, analysis, and computation of surface-water stage and discharge records are conducted in accordance with procedures described in a series entitled "Techniques of Water-Resources Investigations of the U.S. Geological Survey" (TWRI). Field activities are presented in three chapters entitled "General Procedures for Gaging Streams" (Carter and Davidian, 1968); "Stage Measurements at Gaging Stations" (Buchanan and Somers, 1968); and "Discharge Measurements at Gaging Stations" (Buchanan and Somers, 1969); and more recently in Water Supply Paper 2175, "Measurement and Computation of Streamflow: Volume 1, Measurement of Stage and Discharge" (Rantz and others, 1982). Daily discharge is computed in conformance with procedures described in Water Supply Paper 2175, "Measurement and Computation of Streamflow: Volume 2, Computation of Discharge" (Rantz and others, 1982). All procedures are within the guidelines recommended in the "National Handbook of Recommended Methods for Water-Data Acquisition" (Office of Water Data Coordination, 1977).

Water Quality

Procedures used by the USGS in the collection and analysis of samples of water and bottom materials are in conformance with the methods of laboratory analysis and sample preservation and handling described in TWRI Chapter A1, Book 5, "Methods for Determination of Inorganic Substances in Water and Fluvial Sediments" (Fishman and Friedman, 1985).

Procedures used for water-quality field data collection are in accordance with techniques established by the USGS and are within the guidelines recommended in the "National Handbook of Recommended Methods for Water-Data Acquisition" (Office of Water Data Coordination, 1977).

Corps of Engineers

Methods for Chemical Analyses

The procedures used by the COE South Atlantic Division Laboratories (SADL) for the analysis of water and sediment samples are in conformance with the methods described in U.S. Environmental Protection Agency (USEPA) "Test Methods for Evaluating Solid Waste" (USEPA, 1986); TWRI "Methods for Determination of Inorganic Substances in Water and Fluvial Sediments" (Fishman and Friedman, 1985); and U.S. Environmental Protection Agency (EPA) and COE "Procedures for Handling and Chemical Analysis of Sediment and Water Samples" (U.S. Army Engineer Waterways Experiment Station, 1981). Quality control techniques and quality assurance practices used by SADL are contained in USEPA, Region IV "Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual" (USEPA, 1986) and SADL Quality Assurance/Quality Control Plan (SADL, 1987).

Tennessee Valley Authority

Aquatic Biology

The procedures used in the collection and laboratory analysis of aquatic biological samples--phytoplankton, zooplankton, periphyton--for community numbers and autotrophic indices, and benthic macroinvertebrates, are conducted in conformance with standard TVA procedures. The applicable procedures are described in "Field Operations Biological Resources Procedures Manual" (TVA, 1983) and include the following:

- Procedure NR OPS-FO-BR-21.4, "Sample Collection - Phytoplankton"
- Procedure NR OPS-FO-BR-21.5, "Sample Collection - Periphyton"
- Procedure NR OPS-FO-BR-21.6, "Sample Collection - Zooplankton"
- Procedure NR OPS-FO-BR-21.11, "Qualitative Sample Collection - Benthic Macroinvertebrates"
- Procedure S&F OPS-FO-BR-21.12, "Quantitative Sample Collection - Benthic Macroinvertebrate Sampling with a Ponar Dredge"
- Procedure NR OPS-FO-BR-22.1, "Receipt and Handling of Biological Samples"
- Procedure NR OPS-FO-BR-22.2, "Identification and Enumeration of Phytoplankton"
- Procedure NR OPS-FO-BR-22.3, "Identification and Enumeration of Periphyton"
- Procedure NR OPS-FO-BR-22.4, "Identification and Enumeration of Zooplankton"

- Procedure NR OPS-FO-BR-22.5, "Identification, Enumeration, and We Weight Biomass of Benthic Macroinvertebrates"
- Procedure NR OPS-FO-BR-22.6, "Biomass/Chlorophyll Ratio for Periphyton"
- Procedure NR OPS-FO-BR-22.9, "Coding and Verifying Aquatic Biological Laboratory Data Sheets."

In addition to the collection or analytical protocols, these procedures contain the quality control and quality-assurance techniques used by the TVA's Aquatic Biology Laboratory.

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APPENDIXES

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EXPLANATION OF CODES AND ABBREVIATIONS CONTAINED IN DATA TABLES IN THE APPENDIXES

PRINCIPAL AQUIFER

Geologic unit code	Aquifer name and age
110ALVM	Quaternary alluvium, Quaternary
110TRCS	Undifferentiated terrace deposits, Quaternary
111ALVM	Holocene alluvium, Holocene
211TBGB	Tombigbee Sand Member of Eutaw Formation, Upper Cretaceous
211EUTW	Eutaw Formation, Upper Cretaceous
211EUTWR	Eutaw Formation (Restricted), Upper Cretaceous
211EUTWL	Lower Eutaw Formation, Upper Cretaceous
211MCSN	McShan Formation, Upper Cretaceous
211GORD	Gordo Formation, Upper Cretaceous
300PLZC	Paleozoic Erathem, Paleozoic
330MSSP	Mississippian System, Mississippian
337FRPN	Fort Payne Chert, Lower Mississippian

HYDROLOGIC UNIT

An eight-digit hydrologic unit code refers to a specific drainage basin as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps (Seaber and others, 1987).

WATER-QUALITY REMARKS

Remark Code	Remark
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)
NOT SAMPLED	Station sampled during previous years but not sampled during FY87

PARAMETERS FOR CHLOROPHYLL/BIOMASS DATA

PAM2	Pheophytin a per square meter
PI	Pheophytin Index
CAM2	Chlorophyll a per square meter
CBM2	Chlorophyll b per square meter
CCM2	Chlorophyll c per square meter
AFOW	Ash free organic weight
AI	Autotrophic Index
CCAM2	Corrected chlorophyll a per square meter
CAI	Corrected autotrophic index
.	Indicates that the analysis for that parameter was invalid.*

* Any other variables calculated using the invalid parameter are to be considered invalid also.

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APPENDIX A

GROUND-WATER DATA

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APPENDIX A

GROUND-WATER DATA

DESCRIPTIONS OF WELLS

DESCRIPTIONS OF GROUND-WATER WELLS

LOCAL NUMBER	OWNER	PRINCIPAL AQUIFER	LAND NET LOCATION	DATE COMPLETED	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	CASING DIAM-ETER (INCHES)	DISCHARGE (GALLONS PER MINUTE)
			GROUND-WATER NETWORK					
			ALCORN COUNTY					
L034	USCE NW1-1	211GORD	NENES32T03SR09E	04/28/1978	500	280	1.50	--
L036	USCE NW1-3	211EUTW	NESES32T03SR09E	05/12/1978	500	207	1.50	--
L038	USCE NW2-2	211GORD	NWNES06T04SR09E	04/06/1978	600	400	1.50	--
L040	USCE NW2-3	211EUTW	NWNES06T04SR09E	04/13/1978	580	327	1.50	--
L042	USCE NW3-2	211GORD	NENWS01T04SR08E	04/28/1980	590	398	1.50	--
L043	USCE NW3-3	211EUTW	NENWS01T04SR08E	06/09/1980	590	320	1.50	--
L047	USCE W4-2	211EUTW	SESES06T03SR09E	04/02/1981	600	259	3	--
L048	USCE W4-3	211EUTW	SESES06T03SR09E	04/01/1981	600	315	3	--
L049	USCE W7-1	211GORD	SWSWS17T03SR09E	03/26/1982	600	430	1.50	--
L050	USCE W7-2A	211EUTW	SWSWS17T03SR09E	--/--/1981	600	380	1.50	--
L051	USCE W8-1	211GORD	SESES05T04SR09E	03/21/1982	537	340	1.50	--
L052	USCE W8-2	211GORD	SESES05T04SR09E	03/28/1983	537	263	3	--
			ITAWAMBA COUNTY					
A023	USCE GW118	211MCSN	SENES36T07SR08E	07/08/1975	325.70	23	1.50	--
A024	USCE GW119	110ALVM	NESES35T07SR08E	07/10/1975	295	38	1.50	--
A025	USCE GW120	110ALVM	SESES34T07SR08E	07/14/1975	297.20	21	1.50	--
B005	USCE GW117	110ALVM	SWSWS29T07SR09E	07/16/1975	359.20	21	1.50	--
B008	USCE P601B	211GORD	SWSWS21T07SR09E	05/16/1978	440	187	1.50	--
B009	USCE P602B	211GORD	NWNES28T07SR09E	06/23/1978	450	200	1.50	--
D039	USCE CF87	211EUTW	NWSES25T08SR08E	10/01/1975	271.10	66	1.50	--
D040	USCE GW110	110ALVM	NENES12T09SR08E	07/02/1975	282.70	23	1.50	--
D041	USCE GW112A	110ALVM	NENWS25T08SR08E	06/19/1975	275	28	1.50	--
D042	USCE GW115	110ALVM	SESES10T08SR08E	07/15/1975	299.20	29	1.50	--
D043	USCE GW116	211EUTW	SESWS06T08SR09E	07/08/1975	333.50	30	1.50	--
D044	USCE GW116A	110ALVM	SWSES01T08SR08E	06/17/1980	285	25	1.50	--
D045	USCE P500B	211GORD	SWSES25T08SR08E	08/28/1978	290	124	1.50	--
D046	USCE P501B	211GORD	SESES24T08SR08E	05/01/1978	308.50	152	1.50	--
E005	USCE 65A	211GORD	NESES18T08SR09E	05/18/1972	325	130	4	7.0
E009	USCE GW113	110ALVM	SWNES17T08SR09E	07/07/1975	329.50	26	1.50	--
E010	USCE GW114	110ALVM	NESES18T08SR09E	07/03/1975	311.70	12	1.50	--
E011	USCE P503B	211GORD	NWNES30T08SR09E	05/15/1978	420	221	1.50	--
G065	USCE 67A	211GORD	SWSES27T09SR08E	08/12/1975	270	179	4	--
G066	USCE 67B	211EUTW	SWSES27T09SR08E	08/13/1975	270	71	4	--
G067	USCE GW106B	211GORD	SWSES25T09SR08E	04/19/1978	284	175	6	--
G068	USCE GW106A	110ALVM	SWSES25T09SR08E	04/19/1978	290	10	2	--
G070	USCE GW104C	110ALVM	NWSWS26T09SR08E	01/01/1980	260	24	2	--
G072	USCE C38	110ALVM	SWNWS25T09SR08E	04/12/1973	263.20	33	1.50	--
G074	USCE GW104A	211GORD	NESWS36T09SR08E	04/20/1978	290	88	1.50	--
G075	USCE GW104B	211GORD	NESWS36T09SR08E	04/20/1978	290	138	1.50	--
G076	USCE GW105	110ALVM	NESES34T09SR08E	07/11/1975	254.60	29	1.50	--
G077	USCE GW107	110ALVM	SWSES27T09SR08E	07/02/1975	273.30	31	1.50	--
G078	USCE GW108	211EUTW	NESWS13T09SR08E	07/02/1975	284.50	14	1.50	--
G079	USCE GW108B	211GORD	NESWS13T09SR08E	04/27/1978	284.50	150	1.50	--
G080	USCE GW109	110ALVM	NWSWS15T09SR08E	07/03/1975	278.20	24	1.50	--
G081	USCE GW109B	211GORD	NWSWS15T09SR08E	05/05/1978	278.20	198	1.50	--
G082	USCE GW111	110ALVM	SESWS02T09SR08E	07/23/1975	270.90	35	1.50	--
G083	USCE GW112	110ALVM	NWSWS03T09SR08E	09/01/1975	292.90	24	1.50	--
G084	USCE GW104	110ALVM	SWNWS36T09SR08E	07/01/1975	240	26	2	--
K039	USCE 71A	211GORD	NENWS24T10SR08E	06/20/1972	273	170	4	7.0
K041	USCE GW100	110ALVM	NENES24T10SR08E	06/24/1975	269.20	21	1.50	--
K042	USCE BF179-75	211GORD	NENES12T10SR08E	01/14/1976	250	46	2	--
L014	USCE 74A	211GORD	SWSWS17T10SR09E	06/22/1972	270	150	4	200
L016	USCE 75A	211GORD	SWSES17T10SR09E	06/22/1972	300	144	4	195
L017	USCE 72A	110ALVM	NWSES18T10SR09E	06/11/1972	249	21	4	7.0
L021	USCE BF170-75	211EUTW	NESES19T10SR09E	08/20/1975	247.50	67	1.50	--
L022	USCE BF173-75	211GORD	NESES18T10SR09E	07/15/1975	252.20	51	1.50	--
L023	USCE GW99	110ALVM	SWSES17T10SR09E	06/26/1975	282.80	30	1.50	--
L024	USCE GW100A	110ALVM	NWNWS18T10SR09E	07/08/1980	255	32	1.50	--
L025	USCE GW101	110ALVM	SESWS06T10SR09E	06/26/1975	304.80	21	1.50	--
L026	USCE GW102	110ALVM	SESES01T10SR08E	06/22/1975	277.10	21	1.50	--
N028	USCE 81A	211GORD	NESWS26T11SR08E	07/13/1972	246	180	4	8.0
N029	USCE GW95A	110ALVM	SENES23T11SR08E	06/16/1975	242.40	35	1.50	--
O010	USCE GW94	110ALVM	SESES20T11SR09E	06/18/1975	278	23	1.50	--
O011	USCE GW95	110ALVM	SWSWS17T11SR09E	06/19/1975	325.40	29	1.50	--
O012	USCE GW96	110ALVM	NWSES18T11SR09E	06/20/1975	262.90	23	1.50	--
O013	USCE GW96A	110ALVM	SWNWS20T11SR09E	06/22/1975	238.60	24	1.50	--
O014	USCE GW97	110ALVM	SESWS14T10SR09E	06/25/1975	393.90	60	1.50	--
O015	USCE GW98	110ALVM	SWSWS31T10SR09E	06/23/1975	267.20	23	1.50	--
O016	USCE BF165-75	211GORD	SWSWS05T11SR09E	01/14/1976	250	50	2	--
O017	USCE B54-73	110ALVM	SWSWS05T11SR09E	05/01/1973	240	27	2	--

DESCRIPTIONS OF GROUND-WATER WELLS--Continued

LOCAL NUMBER	OWNER	PRINCIPAL AQUIFER	LAND NET LOCATION	DATE COMPLETED	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	CASING DIAM-ETER (INCHES)	DISCHARGE (GALLONS PER MINUTE)
			GROUND-WATER NETWORK--Continued					
			LOWNDES COUNTY					
C130	USCE GW42	110ALVM	SESES25T18SR19W	03/21/1975	168.90	32	1.50	--
C131	USCE GW45	110ALVM	SWNES07T17SR19W	03/20/1975	198.30	22	1.50	--
F073	USCE TTM2A	211EUTW	NENWS25T19NR17E	04/01/1975	160	162	4	--
F074	USCE TTM2B	110ALVM	NESWS25T19NR17E	04/02/1975	160	19	6	--
			MONROE COUNTY					
B068	USCE APF58	211EUTW	NENWS34T12SR19W	01/15/1976	210	60	2	--
C051	USCE 84A	211GORD	NWNWS36T11SR08E	06/29/1972	234	170	4	30
C052	USCE 84B	211GORD	NWNWS36T11SR08E	07/10/1972	234	110	4	10
C053	USCE 84C	110ALVM	NWNWS36T11SR08E	07/10/1972	234	27	4	10
C054	USCE 85A	110ALVM	SWNWS36T11SR08E	07/11/1972	235	21	4	18
C057	USCE 89A	211GORD	SWNES01T12SR08E	06/30/1972	245	166	4	20
C058	USCE 89B	211MCSN	SWNES01T12SR08E	07/06/1972	245	45	4	2.0
C059	USCE 95A	211GORD	SWSWS21T12SR08E	08/30/1972	220	166	4	4.0
C060	USCE 96A	211GORD	NWSES20T12SR18W	07/25/1972	253	164	4	--
C061	USCE 91A	211MCSN	SWSWS17T12SR08E	07/--/1972	218	88	4	--
C062	USCE 92A	211GORD	NWSWS20T12SR08E	07/--/1972	216	200	4	--
C067	USCE 95B	110ALVM	SWSWS21T12SR08E	08/30/1972	220	20	4	7.0
C068	USCE 92B	110ALVM	NWSWS20T12SR08E	08/30/1972	216	19	4	7.0
C069	USCE 91B	110ALVM	SWSWS17T12SR08E	08/--/1972	218	20	4	4.0
C070	USCE 96B	110TRCS	SWSES20T12SR18W	08/--/1972	257	16	24	--
C080	USCE TTM6A	211TBGB	NENES33T13SR19W	05/14/1975	210	65	4	--
C081	USCE TTM6B	110ALVM	NENES33T13SR19W	05/16/1975	210	38	6	--
C085	USCE A1A	110ALVM	SWSWS20T12SR08E	06/17/1982	215	5	1.50	--
C086	USCE A1	110ALVM	SWSWS20T12SR08E	06/17/1982	215	24	1.50	--
C087	USCE A2	110ALVM	NWNWS29T12SR08E	06/18/1982	215	29	1.50	--
C088	USCE A2A	110ALVM	NWNWS29T12SR08E	06/18/1982	215	5	1.50	--
C089	USCE A3	110ALVM	NWNWS29T12SR08E	06/21/1982	215	25	1.50	--
C090	USCE A3A	110ALVM	NWNWS29T12SR08E	07/01/1982	215	5	1.00	--
C092	USCE GW80	110ALVM	SWNES35T12SR19W	05/28/1975	236.40	33	1.50	--
C093	USCE GW81	110ALVM	NESES36T12SR19W	05/29/1975	235.70	25	1.50	--
C094	USCE GW83	110ALVM	SESES30T12SR08E	06/02/1975	213.20	33	1.50	--
C095	USCE GW85	110ALVM	SWSES20T12SR18W	06/10/1975	257.60	26	1.50	--
C096	USCE GW86	110ALVM	NWNES19T12SR18W	06/09/1975	247.10	24	1.50	--
C097	USCE GW86A	110ALVM	NESWS21T12SR08E	06/23/1980	210	31	1.50	--
C098	USCE GW87	110ALVM	SENWS16T12SR18W	06/18/1975	258	30	1.50	--
C099	USCE GW88	110ALVM	SWSWS15T12SR08E	06/05/1975	244.20	24	1.50	--
C100	USCE GW89	110ALVM	SESWS09T12SR08E	06/04/1975	225.20	30	1.50	--
C101	USCE GW90	110ALVM	NENWS13T12SR08E	06/13/1975	270	26	1.50	--
C102	USCE GW91	110ALVM	SENES11T12SR08E	06/12/1975	261.30	23	1.50	--
C104	USCE GW92A	211GORD	NWSWS01T12SR08E	04/14/1975	257.30	215	1.50	--
C105	USCE GW92B	211EUTW	NWSWS01T12SR08E	04/14/1975	257.30	122	1.50	--
C106	USCE GW92C	211EUTW	NWSWS01T12SR08E	04/14/1975	257.40	100	1.50	--
C107	USCE LA2L	211GORD	SWNWS24T12SR19W	05/01/1975	220	147	1.50	--
C108	USCE LA2U	211EUTW	SWNWS24T12SR19W	05/02/1975	220	67	1.50	--
C109	USCE LA4L	211GORD	NESES36T12SR19W	05/03/1975	235	190	1.50	--
C110	USCE LA4U	211EUTW	NESES36T12SR19W	05/04/1975	235	122	1.50	--
C111	USCE LA5L	211GORD	SWSES30T12SR08E	05/05/1975	210	205	1.50	--
C112	USCE LA5U	211EUTW	SWSES30T12SR08E	05/06/1975	210	57	1.50	--
C113	USCE AF63	211EUTW	SWSES03T12SR08E	01/20/1976	230	54	2	--
D032	USCE GW92	110ALVM	NESWS06T12SR09E	06/11/1975	266.70	20	1.50	--
D033	USCE GW93A	211GORD	SWNWS06T12SR09E	05/15/1975	259.20	178	1.50	--
D034	USCE GW93B	211EUTW	SWNWS06T12SR09E	05/15/1975	259.40	102	1.50	--
D035	USCE GW93C	110ALVM	SWNWS06T12SR09E	05/15/1975	259.40	20	1.50	--
D036	USCE GW94A	110ALVM	NWNWS06T12SR09E	06/26/1975	255	27	1.50	--
G052	USCE APF55	211EUTW	NESWS03T13SR19W	08/05/1975	205.70	69	1.50	--
G053	USCE APF57	211EUTW	SESWS34T12SR19W	07/22/1975	207.30	50	1.50	--
G054	USCE GW73	110ALVM	SESWS27T13SR07E	05/23/1975	198	32	1.50	--
G055	USCE GW74	110ALVM	SWNWS36T13SR19W	05/26/1975	214.30	32	1.50	--
G056	USCE GW76	110ALVM	NWNES10T13SR19W	06/02/1975	203.40	45	1.50	--
G057	USCE GW76A	110ALVM	NWSES15T13SR07E	06/18/1975	202.40	25	1.50	--
G058	USCE GW77	110ALVM	NENES11T13SR19W	05/31/1975	234.20	46	1.50	--
G059	USCE GW78	110ALVM	NENWS03T13SR07E	05/20/1975	205.30	36	1.50	--
G060	USCE GW75	110ALVM	NWSES23T13SR19W	05/21/1975	200	30	2	--
H017	USCE TTM5A	211EUTW	SESWS22T13SR19W	05/08/1975	200	90	4	--
H018	USCE TTM5B	110ALVM	SESWS22T13SR19W	05/08/1975	200	26	6	--
L062	USCE 105A	211EUTW	SWSWS19T14SR19W	08/11/1972	210	64	4	--
L063	USCE 101A	211EUTW	SWSWS15T14SR07E	08/09/1972	202	90	4	--
L064	USCE 102A	211EUTW	NWNWS23T14SR07E	08/04/1972	191	50	4	--
L065	USCE 104A	211EUTW	SESES10T14SR19W	08/14/1972	194	55	4	--
L067	USCE 104B	110ALVM	SESES10T14SR19E	08/15/1972	194	24	4	--

DESCRIPTIONS OF GROUND-WATER WELLS--Continued

LOCAL NUMBER	OWNER	PRINCIPAL AQUIFER	LAND NET LOCATION	DATE COMPLETED	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	CASING DIAM-ETER (INCHES)	DISCHARGE (GALLONS PER MINUTE)
			GROUND-WATER NETWORK--Continued					
			MONROE COUNTY--Continued					
L068	USCE 102B	110ALVM	NWNWS23T14SR07E	08/07/1972	191	30	4	--
L069	USCE 101B	110TRCS	SWSWS15T14SR07E	08/09/1972	202	20	4	--
L075	USCE AB11	211MCSN	SWSWS26T14SR07E	12/11/1976	200	224	4	--
L077	USCE AB10	211EUTW	SWSWS26T14SR07E	12/15/1976	200	145	4	--
L078	USCE AB12	211EUTW	SWSWS26T14SR07E	12/17/1976	200	90	4	--
L084	USCE AB1	211EUTW	NWSWS26T14SR07E	10/28/1976	195	80	1.50	--
L085	USCE AB2	211EUTW	NWSWS26T14SR07E	10/28/1976	195	146	1.50	--
L086	USCE AB2A	211EUTW	NWSWS26T14SR07E	11/06/1976	195	119	1.50	--
L087	USCE AB5	211EUTW	NESES10T14SR19W	10/14/1976	192	150	1.50	--
L088	USCE AB6	211EUTW	NWSWS26T14SR07E	11/07/1976	190	70	1.50	--
L089	USCE AB7	211EUTW	NWSWS26T14SR07E	11/07/1976	187.40	133	1.50	--
L090	USCE GW70	110ALVM	SWSWS14T14SR07E	05/28/1975	193.30	26	1.50	--
L091	USCE GW70A	110ALVM	NWNWS23T14SR19W	06/17/1980	193	27	1.50	--
L092	USCE GW71	110ALVM	NENWS12T14SR19W	05/15/1975	225.40	32	1.50	--
L093	USCE GW72	110ALVM	SESES01T14SR19W	05/19/1975	220.80	30	1.50	--
L095	USCE P1	211EUTW	NENWS35T14SR19W	10/05/1982	190	38	1.50	--
L096	USCE P2	211EUTW	NENWS35T14SR19W	10/01/1982	190	42	1.50	--
			PRENTISS COUNTY					
D028	USCE MW1-2	211EUTW	NWNES33T04SR09E	08/18/1977	510	158	1.50	--
D030	USCE MW1-4	211GORD	NENES33T04SR09E	09/04/1978	510	285	1.50	--
D032	USCE MW2-2	211GORD	NESES31T04SR09E	03/18/1980	440	220	1.50	--
D033	USCE MW2-3	211EUTW	NESES31T04SR09E	03/25/1980	440	181	1.50	--
D036	USCE W1-1	211GORD	SWNWS08T04SR09E	07/07/1980	580	371	1.50	--
D037	USCE W1-2	211EUTW	SWNWS08T04SR09E	07/07/1980	580	280	1.50	--
D039	USCE W3-1	211GORD	SESWS15T04SR09E	12/04/1980	500	215	1.50	--
D040	USCE W3-2	211EUTW	SESWS15T04SR09E	12/10/1980	500	180	1.50	--
H026	USCE SW2-3	211GORD	SWSES10T05SR09E	12/13/1977	480	217	1.50	--
H028	USCE SW3-2	211GORD	SWNWS16T05SR09E	02/04/1980	450	192	1.50	--
H029	USCE SW3-3	211EUTW	SWNWS16T05SR09E	07/02/1980	450	132	1.50	--
H031	USCE SW2-4	211MCSN	SWSES10T05SR09E	01/01/1977	480	133	1.50	--
H033	USCE W6-2	211GORD	SESES10T05SR09E	03/04/1982	480	162	1.50	--
H034	USCE W6-3	211EUTW	SESES10T05SR09E	03/09/1982	480	92	1.50	--
M016	USCE 53A	211GORD	NWSES10T07SR09E	05/--/1972	332	35	4	3.0
M017	USCE 43C	211EUTWR	NWNWS27T06SR09E	05/--/1972	445	90	4	--
M018	USCE 43B	211MCSN	NWNWS27T06SR09E	05/--/1972	460	120	4	--
M019	USCE 52A	211GORD	NESES09T07SR09E	05/--/1972	324	40	4	20
M020	USCE 51A	211GORD	SENWS09T07SR09E	05/--/1972	356	64	4	6.0
M021	USCE 41A	211GORD	SENWS28T06SR09E	05/--/1972	480	226	4	--
M022	USCE 41B	211EUTW	SENWS28T06SR09E	05/--/1972	480	176	4	16
M023	USCE 43A	211GORD	NWNWS27T06SR09E	05/--/1972	460	170	4	--
M025	USCE 43D	211EUTWR	NWNWS27T06SR09E	05/--/1975	460	118	4	--
M026	USCE 42A	211EUTW	NENES28T06SR09E	05/--/1975	420	69	4	--
M027	USCE 42B	211EUTW	NENES28T06SR09E	05/--/1975	420	49	4	--
M028	USCE GW123A	110TRCS	NWNWS16T07SR09E	01/01/1980	316	23	2	--
M030	USCE GW122	110ALVM	SWSES07T07SR09E	02/21/1975	330	23	2	--
M031	USCE GW123	110ALVM	SESWS15T07SR09E	07/15/1975	354	22	2	--
M032	USCE GW124	110ALVM	SENWS09T07SR09E	07/18/1975	350	39	2	--
			TISHOMINGO COUNTY					
A017	USCE 10DP177	211GORD	NENWS36T02SR09E	05/14/1973	433.40	48	4	--
A019	USCE 2MW16	211EUTW	NWSES35T02SR09E	--/--/1981	500	108	1.50	--
A020	USCE 2MW17	211GORD	NWSES35T02SR09E	--/--/1981	500	119	1.50	--
D037	USCE 14A	211GORD	SENWS36T03SR09E	03/06/1972	545	184	2	--
D040	USCE 12A	211GORD	SENES34T03SR09E	03/09/1972	485	190	8	--
D041	USCE 12B	211EUTWR	SENES34T03SR09E	03/17/1972	485	150	8	60
D042	USCE 12C	211EUTWR	SENES34T03SR09E	03/21/1972	485	88	6	58
D044	USCE 14C	211EUTW	SENWS36T03SR09E	02/29/1972	545	106	4	--
D047	USCE 1DP141	211EUTWR	SENWS35T03SR09E	05/--/1972	464.50	134	3	2.0
D048	USCE 1DP142	211EUTWR	SENWS35T03SR09E	05/--/1972	462	57	1.50	--
D050	USCE 11C	211GORD	SWSES33T03SR09E	10/21/1975	505	404	6	--
D051	USCE 11D	211EUTW	SWSES33T03SR09E	10/21/1976	505	210	6	--
D055	USCE 3DP151	211GORD	NESES14T03SR09E	08/30/1972	453.30	163	3	--
D056	USCE 3DP152	211EUTW	NESES14T03SR09E	09/11/1972	451.40	100	3	--
D059	USCE 7DP167	211GORD	NESES01T03SR09E	03/12/1973	447	88	3	--
D060	USCE 7DP168	211EUTW	NESES01T03SR09E	03/13/1973	446.60	43	4	--
D064	USCE W2-3	211GORD	SWSWS11T03SR09E	11/03/1980	480	172	1.50	--
D065	USCE W2-4	211EUTW	SWSWS11T03SR09E	11/06/1980	479	104	1.50	--
D067	USCE 2MW6	211GORD	SWSWS01T03SR09E	--/--/1981	455	90	1.50	--
D068	USCE 2MW7	211EUTW	SWSES02T03SR09E	--/--/1981	475	110	1.50	--

DESCRIPTIONS OF GROUND-WATER WELLS--Continued

LOCAL NUMBER	OWNER	PRINCIPAL AQUIFER	LAND NET LOCATION	DATE COMPLETED	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	CASING DIAMETER (INCHES)	DISCHARGE (GALLONS PER MINUTE)
			GROUND-WATER NETWORK--Continued					
			TISHOMINGO COUNTY--Continued					
D069	USCE 2MW8	211GORD	SWSES02T03SR09E	--/--/1981	475	131	1.50	--
E014	USCE 15A	211GORD	NWSWS31T03SR10E	02/15/1972	540	340	2	20
E015	USCE 15B	211GORD	NWSWS31T03SR10E	02/24/1972	540	204	4	3.0
E016	USCE 15C	211EUTWR	NWSWS31T03SR10E	02/--/1972	540	130	4	3.0
E027	USCE NE2-3	211GORD	SWSWS33T03SR10E	03/07/1970	580	157	1.50	--
E028	USCE NE2-4	211GORD	SWSWS33T03SR10E	03/24/1978	580	340	1.50	--
E033	USCE NE3-4	211GORD	SESWS26T03SR10E	11/21/1979	585	135	1.50	--
E034	USCE NE3-5	211EUTW	SESWS26T03SR10E	11/27/1979	585	63	1.50	--
E040	USCE E2-1	211GORD	SESES20T03SR10E	03/08/1983	550.40	156	1.50	--
E041	USCE E2-2	211EUTW	SWSES20T03SR10E	03/08/1983	550.20	107	1.50	--
E042	USCE 2MW9	211EUTW	SENWS06T03SR10E	--/--/1981	450	36	1.50	--
E043	USCE 2MW10	211EUTW	SENWS06T03SR10E	--/--/1973	450	42	3	--
E044	USCE 2MW13	211EUTW	NWSWS36T02SR09E	--/--/1981	472	88	1.50	--
E045	USCE 2MW14	211GORD	NWSWS36T02SR09E	--/--/1981	472	99	1.50	--
G004	USCE 21A	211GORD	SWSWS26T04SR09E	05/24/1971	585	278	4	3.0
G005	USCE 21B	211EUTWL	SWSWS26T04SR09E	05/--/1971	585	235	4	11
G013	USCE 35A	211GORD	NESWS33T04SR10E	07/--/1971	600	300	4	6.0
G014	USCE 35B	211EUTWR	NESWS33T04SR10E	07/22/1971	600	203	4	5.0
G015	USCE 25A	211GORD	NWSWS20T04SR10E	07/28/1971	610	235	4	--
G016	USCE 25B	211EUTWR	NWSWS20T04SR10E	08/03/1971	610	200	4	30
G017	USCE 26A	211GORD	NESES20T04SR10E	07/28/1971	565	250	2	--
G018	USCE 26B	211EUTWR	NESES20T04SR10E	07/--/1971	565	127	4	--
G019	USCE 26C	211EUTWR	NESES20T04SR10E	07/--/1971	565	72	2	5.0
G020	USCE 23C	211GORD	NWNWS30T04SR10E	08/25/1971	588	330	2	--
G023	USCE 23G	211GORD	NWNWS30T04SR10E	09/15/1971	601.3	260	2	--
G027	USCE 23I	330MSSP	NWNWS30T04SR10E	10/07/1971	587	492	2	--
G031	USCE 23J	211GORD	NWNWS30T04SR10E	12/02/1971	587	380	4	60
G032	USCE 23L	211EUTWR	NWNWS30T04SR10E	12/08/1971	563	126	8	60
G033	USCE 23D	211EUTWR	NWNWS30T04SR10E	08/31/1971	590	145	4	20
G034	USCE 23E	211EUTWR	NWNWS30T04SR10E	09/30/1971	585	92	2	--
G038	USCE 22A	211GORD	SWNWS25T04SR09E	01/31/1972	625	360	4	--
G040	USCE 22B	211EUTWR	NWSWS25T04SR09E	02/04/1972	625	240	4	--
G041	USCE 23N	211MCSN	NWNWS30T04SR10E	01/24/1972	600	200	4	20
G042	USCE 23O	211EUTW	NWNWS30T04SR10E	02/01/1972	561	60	6	9.0
G079	USCE 6DP163	211GORD	SESES24T04SR09E	02/20/1973	573	222	4	--
G080	USCE 6DP164	211EUTW	SESES24T04SR09E	02/23/1973	572.60	125	4	--
G083	USCE NE1-1	211GORD	NENWS05T04SR10E	10/17/1977	500	190	3	--
G085	USCE NE1-3	211EUTW	NENWS05T04SR10E	06/22/1978	495	65	3	--
G086	USCE ME1-1	211GORD	NENES21T04SR10E	02/08/1979	560	204	1.50	--
G087	USCE ME1-2	211EUTWL	NENES21T04SR10E	02/13/1979	560	129	1.50	--
G092	USCE ME2-1	211GORD	NWSWS14T04SR10E	02/16/1979	560	162	1.50	--
G093	USCE ME2-2	211EUTW	NWSWS14T04SR10E	02/16/1979	560	67	1.50	--
G095	USCE ME3-2	211GORD	SWNES13T04SR10E	08/28/1979	517	93	1.50	--
G100	USCE SE1-2	211GORD	SWNWS35T04SR10E	06/08/1979	560	218	1.50	--
G102	USCE SE1-4	211EUTW	SWNWS35T04SR10E	04/30/1979	560	73	1.50	--
G104	USCE SE2-2	211GORD	NWSWS25T04SR10E	05/17/1979	580	183	1.50	--
G106	USCE SE2-4	211EUTW	NWSWS25T04SR10E	05/24/1979	580	103	1.50	--
G112	USCE 2DP147	211GORD	SESWS11T04SR09E	07/20/1972	504.50	165	3	--
G113	USCE 2DP148	211EUTW	SESWS11T04SR09E	07/25/1972	504.70	130	3	--
G116	USCE 4DP156	211GORD	SESWS31T04SR10E	01/01/1973	490.10	153	3.50	--
G118	USCE 4DP158	211EUTW	SESWS31T04SR10E	10/26/1972	487.70	56	4	--
G121	USCE 9DP173	211GORD	NESES14T04SR09E	04/19/1973	552.20	220	4	--
G122	USCE 9DP174	211EUTW	NESES14T04SR09E	04/23/1973	552.40	163	4	--
J008	USCE 33A	211EUTWL	SENES06T05SR09E	07/--/1971	515	172	4	--
J013	USCE 34A	211GORD	NENWS05T05SR10E	07/--/1971	560	266	4	8.0
J014	USCE 34B	211EUTWR	NENWS05T05SR10E	07/--/1971	560	134	4	8.0
J016	USCE 33B	211EUTWR	SENES06T05SR09E	07/--/1971	515	90	4	--
J017	USCE 33C	211GORD	SENES06T05SR09E	09/01/1971	515	212	2	--
J018	USCE 31A	211GORD	SWSES01T05SR09E	03/15/1972	473	178	4	1.0
J019	USCE 31B	211EUTWR	SWSES01T05SR09E	03/27/1972	473	74	4	--
J020	USCE 32A	211GORD	NWNWS06T05SR10E	04/27/1972	530	240	4	10
J021	USCE 32B	211EUTWR	NWNWS06T05SR10E	04/--/1972	530	112	4	8.0
J066	USCE SW1-2	211EUTW	NWNWS12T05SR09E	09/01/1977	560	150	1.50	--
J075	USCE SW1-1	211GORD	SWNWS12T05SR09E	08/25/1977	560	264	1.50	--
J076	USCE 5DP159	211GORD	NESWS08T05SR10E	11/06/1972	437.20	148	4	--
J077	USCE 5DP160	211EUTW	NESWS08T05SR10E	11/08/1972	436	60	3	--
J080	USCE E1-2	211GORD	SWSES09T05SR10E	02/16/1981	520	131	1.50	--
J081	USCE E1-3	211EUTW	SWSES09T05SR10E	03/16/1981	520	102	1.50	--
L029	USCE 54A	211GORD	SWSWS11T07SR09E	04/28/1972	332	27	4	--
L030	USCE 55A	211GORD	SESES11T07SR09E	05/11/1972	380	50	4	18

DESCRIPTIONS OF GROUND-WATER WELLS--Continued

LOCAL NUMBER	OWNER	PRINCIPAL AQUIFER	LAND NET LOCATION	DATE COMPLETED	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	CASING DIAM-ETER (INCHES)	DISCHARGE (GALLONS PER MINUTE)
			GROUND-WATER NETWORK--Continued					
			TISHOMINGO COUNTY--Continued					
L031	USCE 45A	211GORD	NWSWS25T06SR09E	03/29/1972	485	92	4	--
L032	USCE 45B	211MCSN	SWNWS25T06SR09E	03/29/1972	485	76	4	--
L033	USCE 54B	110ALVM	SWSWS11T07SR09E	06/06/1972	332	12	4	0.50
L034	USCE 54C	110ALVM	SWSWS11T07SR09E	05/01/1972	333	13	2	--
L051	USCE GW125	110ALVM	SENES02T07SR09E	07/22/1975	367.10	17	2	--
			WELLS NOT IN THE GROUND-WATER NETWORK					
			GREENE COUNTY					
0001	USCE 134A	111ALVM	NENWS25T22NR02W	09/12/1972	117.80	28	4	7.0
			PICKENS COUNTY					
P019	USCE 122A	211EUTW	NWSES15T21SR17W	09/28/1972	140	134	2	8.5
P020	USCE 122B	111ALVM	NWSES15T21SR17W	09/28/1972	139.80	30	4	8.5
			SUMTER COUNTY					
F010	USCE 132A	211EUTW	NWSWS22T22NR02W	09/20/1972	159.70	370	2	8.5
			LOWNDES COUNTY					
C101	USCE 114C	211EUTW	SESES24T17SR19W	08/25/1972	170	92	4	--
			PRENTISS COUNTY					
B035	NEW CANDLER W A	211EUTW	NESES25T04SR07E	03/18/1968	540	460	8	125
			TISHOMINGO COUNTY					
D052	BURNSVILLE	300PLZC	SESWS02T03SR09E	07/07/1977	520	280	10	350
E006	IUKA	337FRPN	SESWS13T03SR10E	03/01/1965	570	360	12	776
E039	MIDWAY-PLEASANT HILL	211GORD	SESWS25T03SR10E	08/01/1984	680	400	16	495

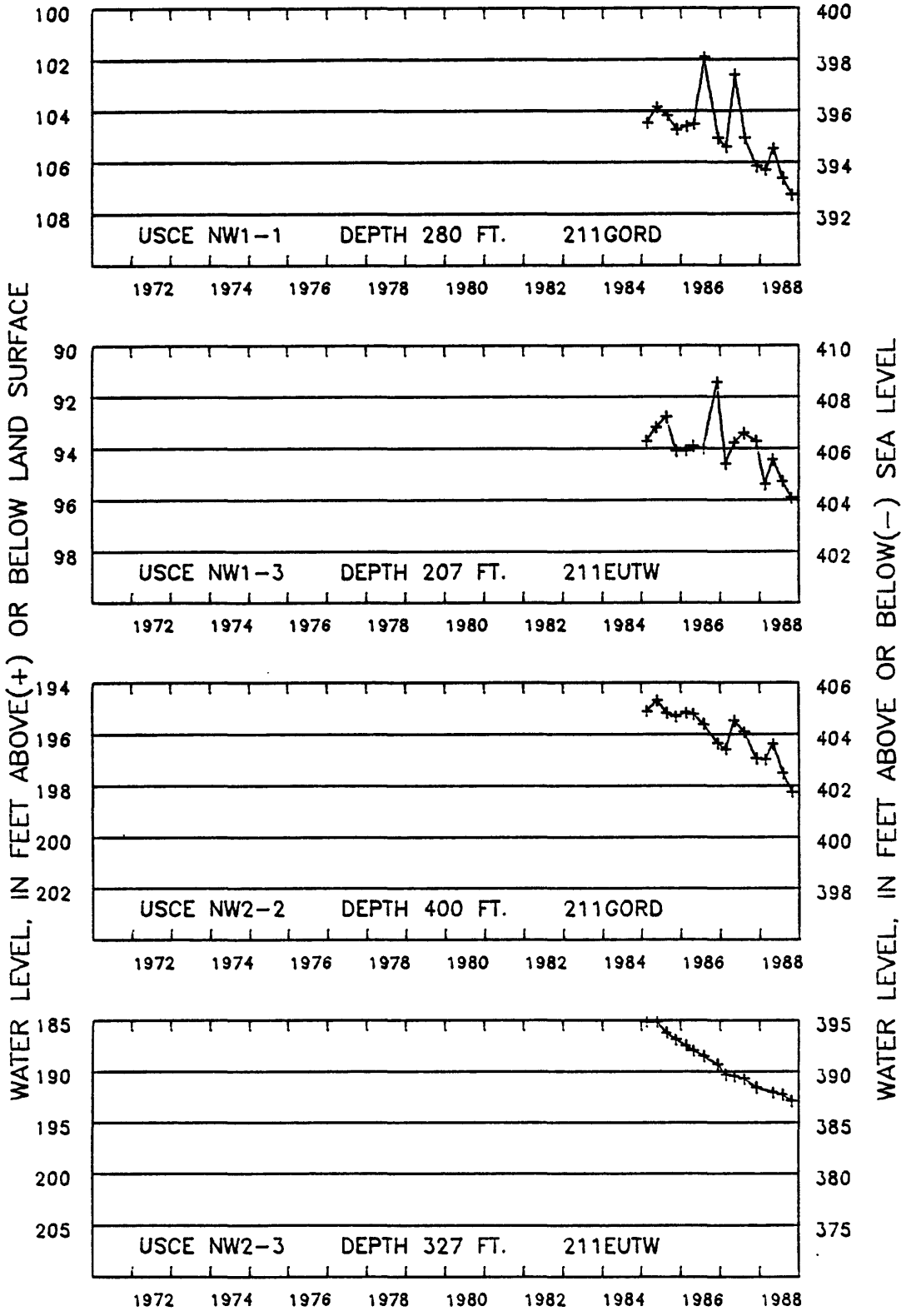
page 35 follows

APPENDIX A

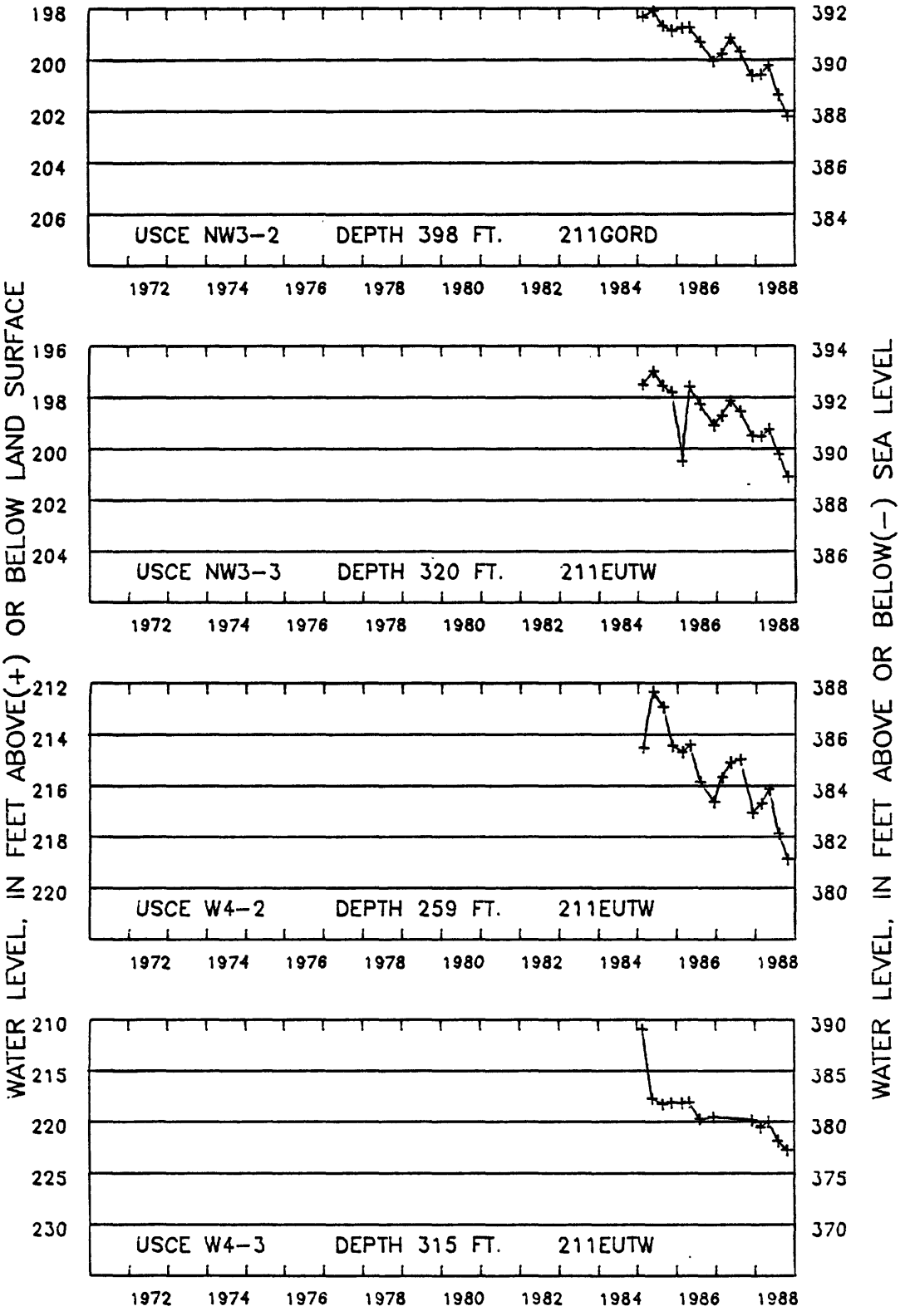
GROUND-WATER DATA

HYDROGRAPHS

page 37 follows



HYDROGRAPHS OF TENNESSEE−TOMBIGBEE OBSERVATION WELLS



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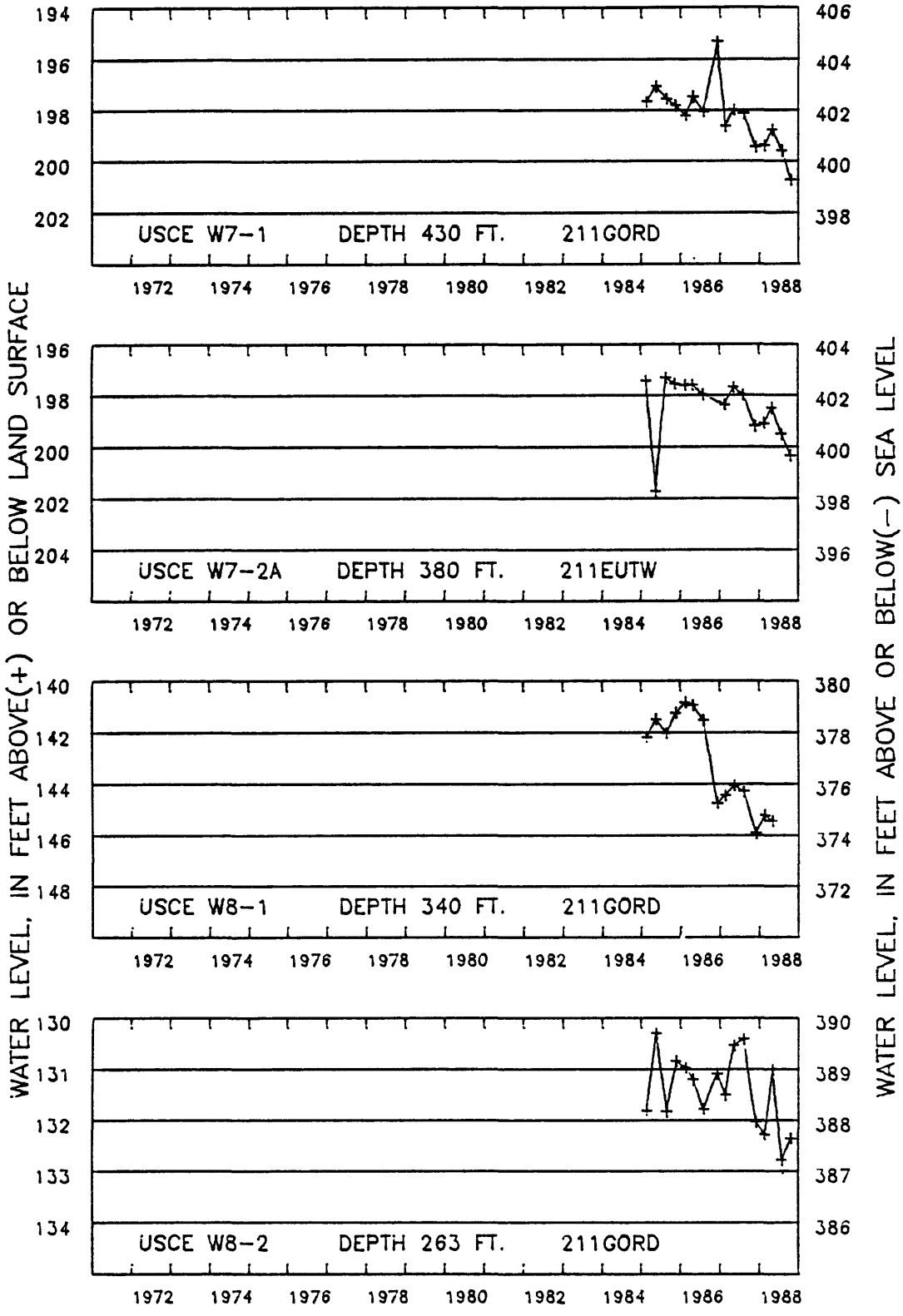

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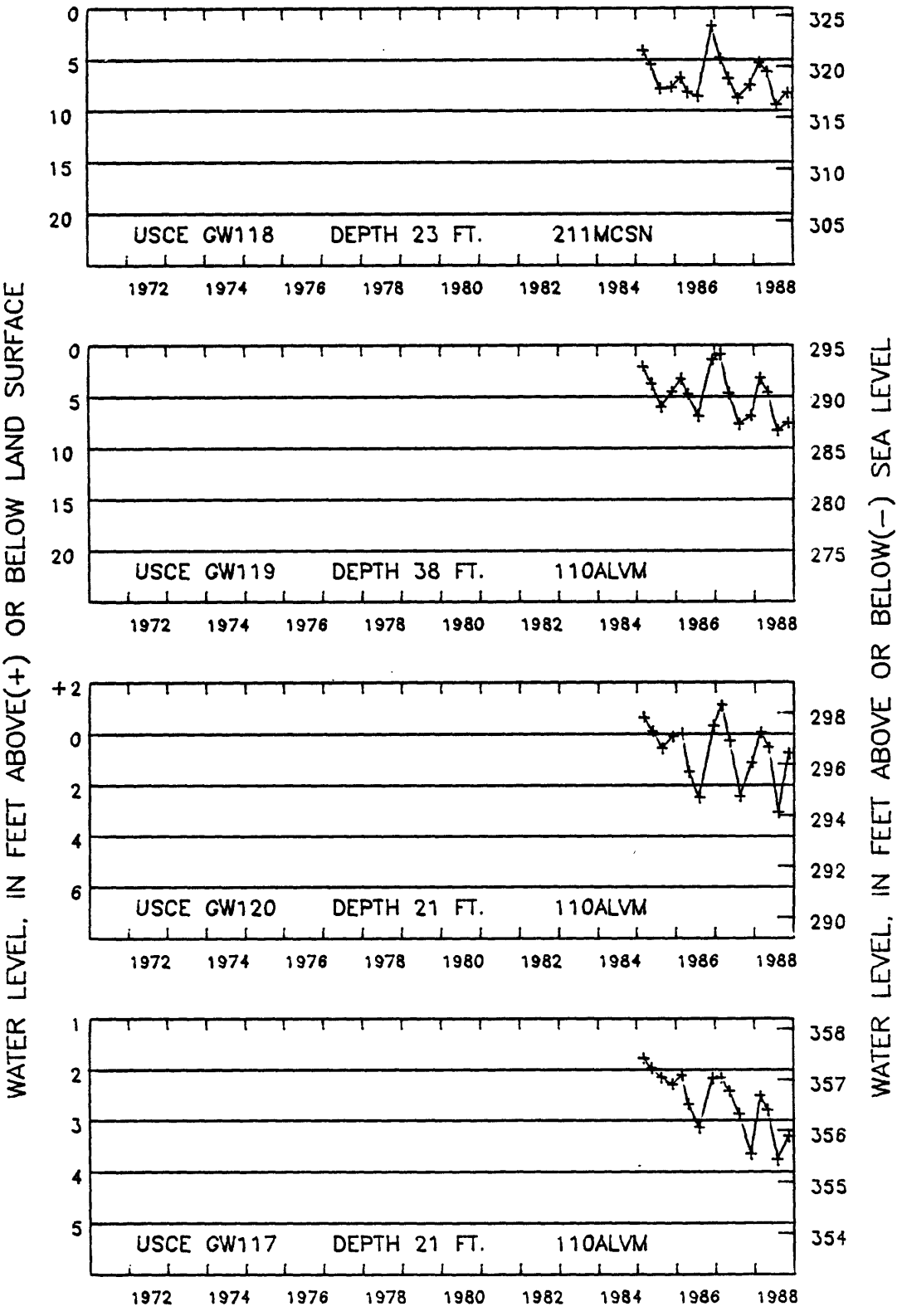

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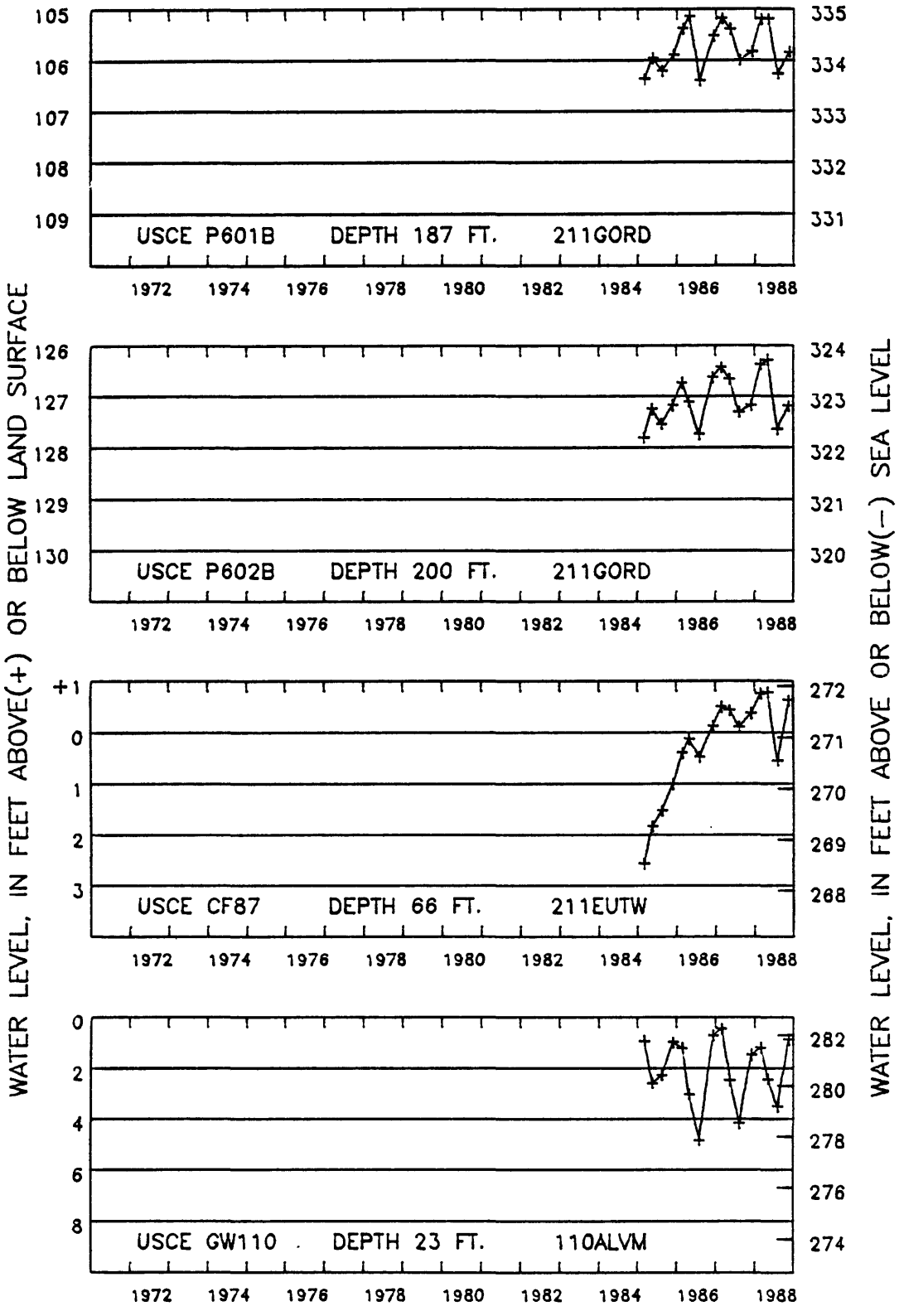

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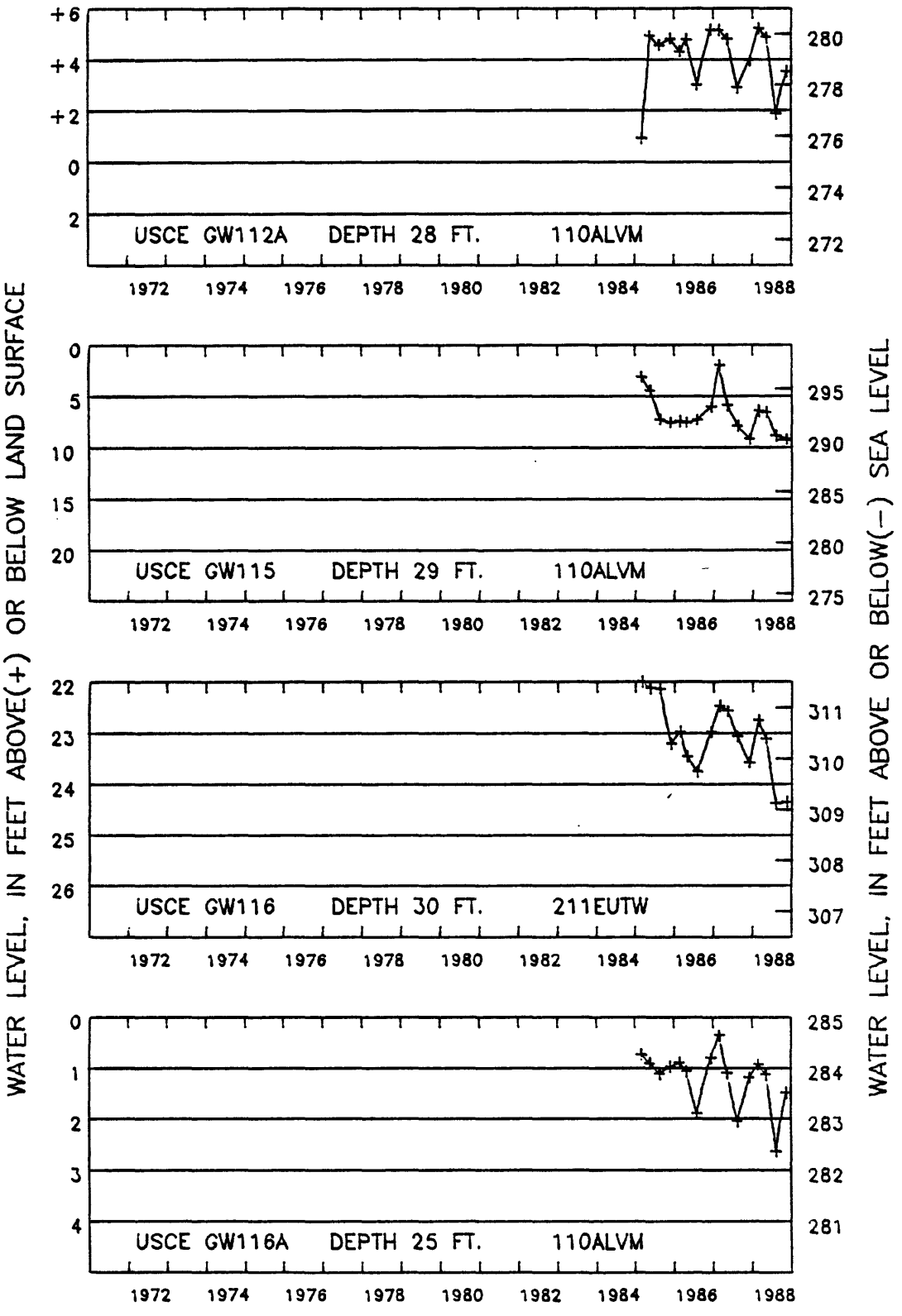

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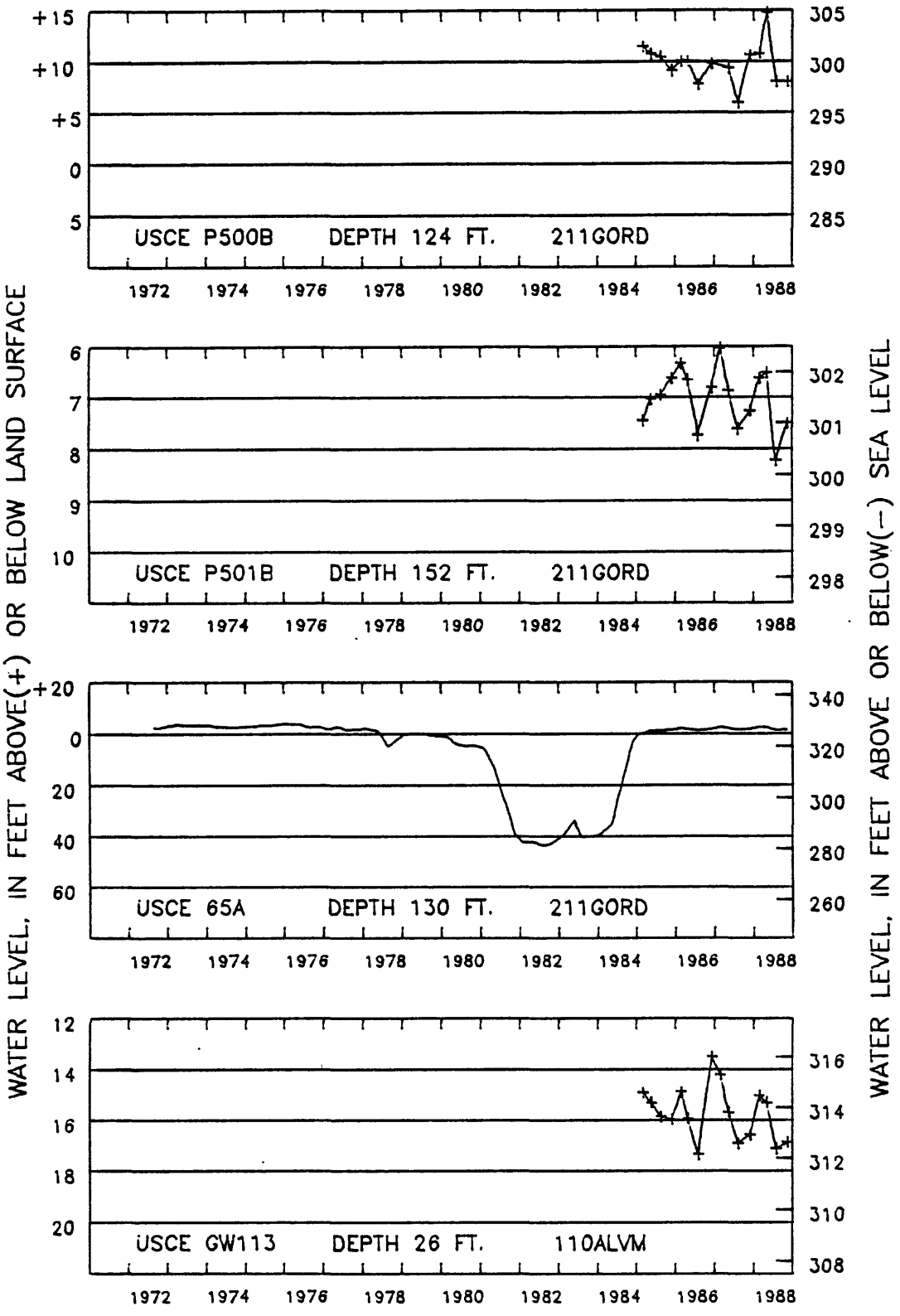

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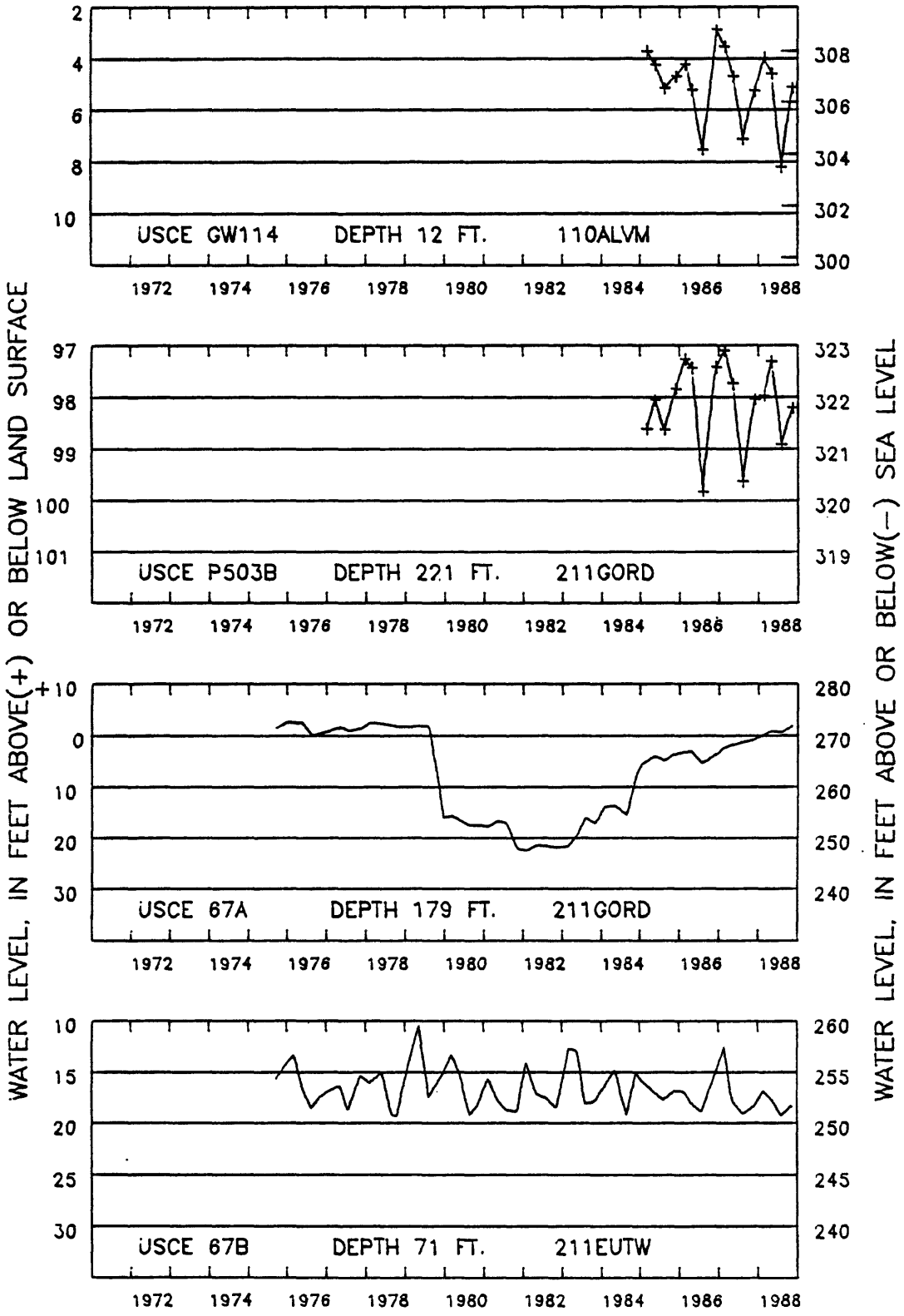

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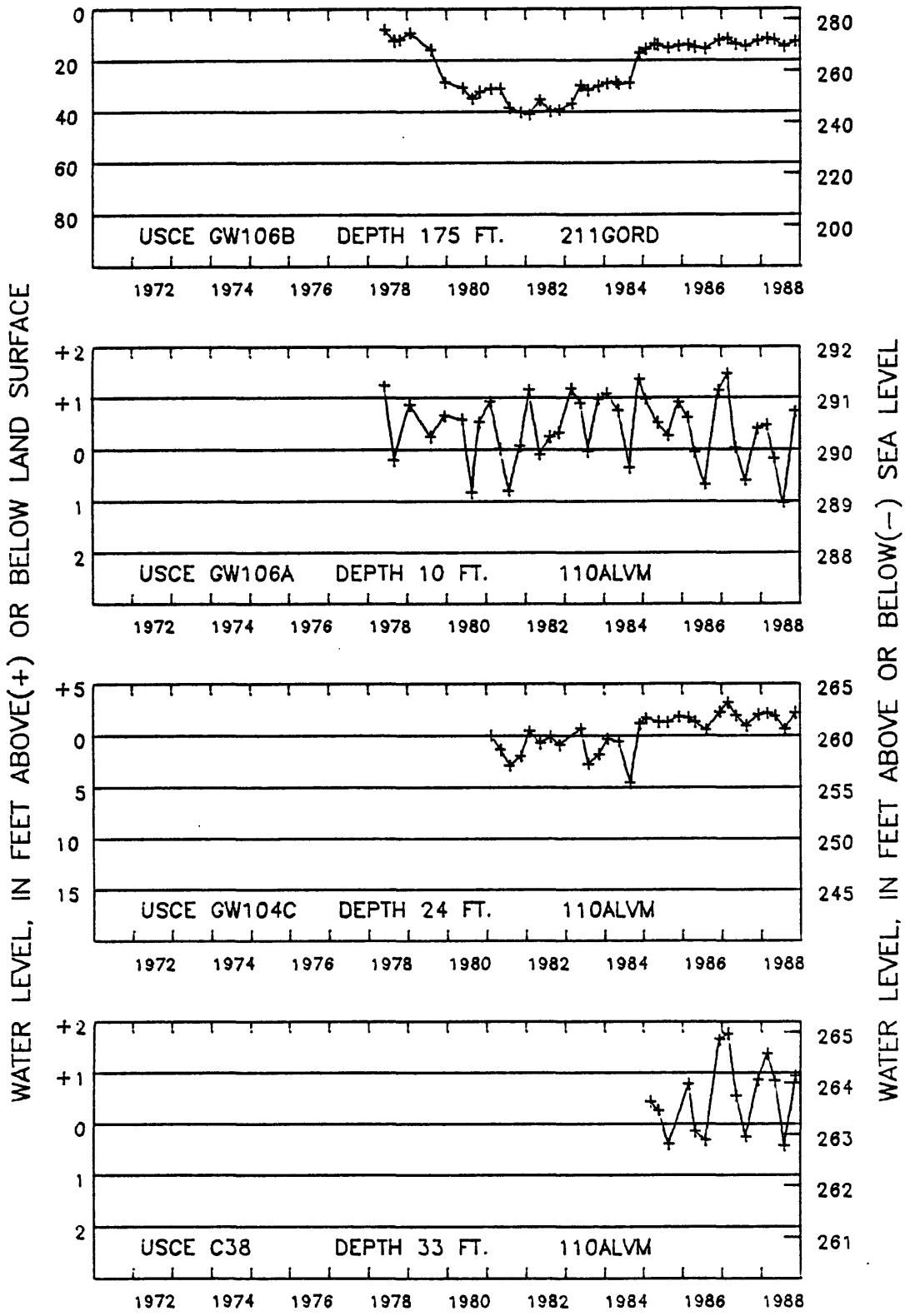

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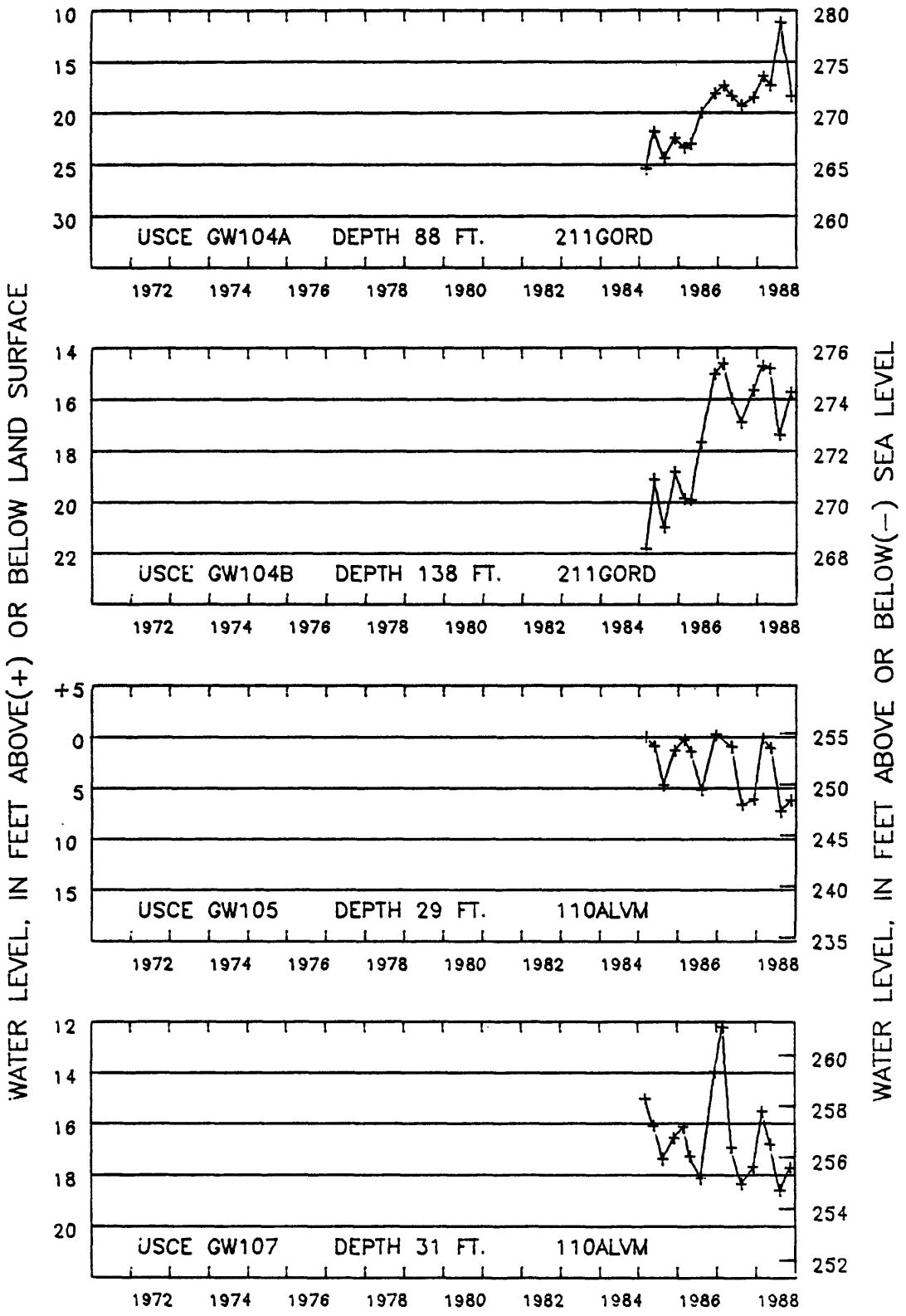

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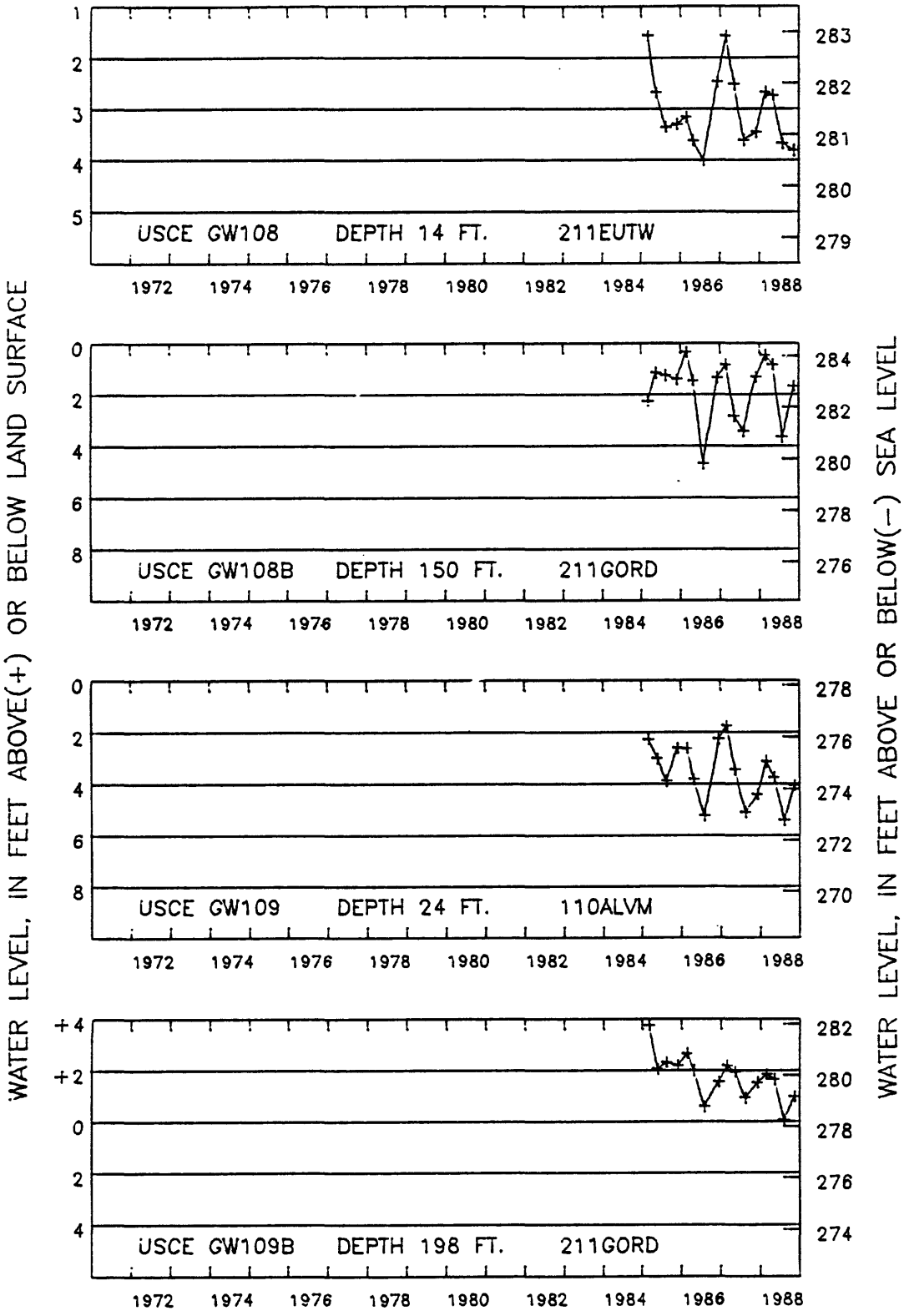

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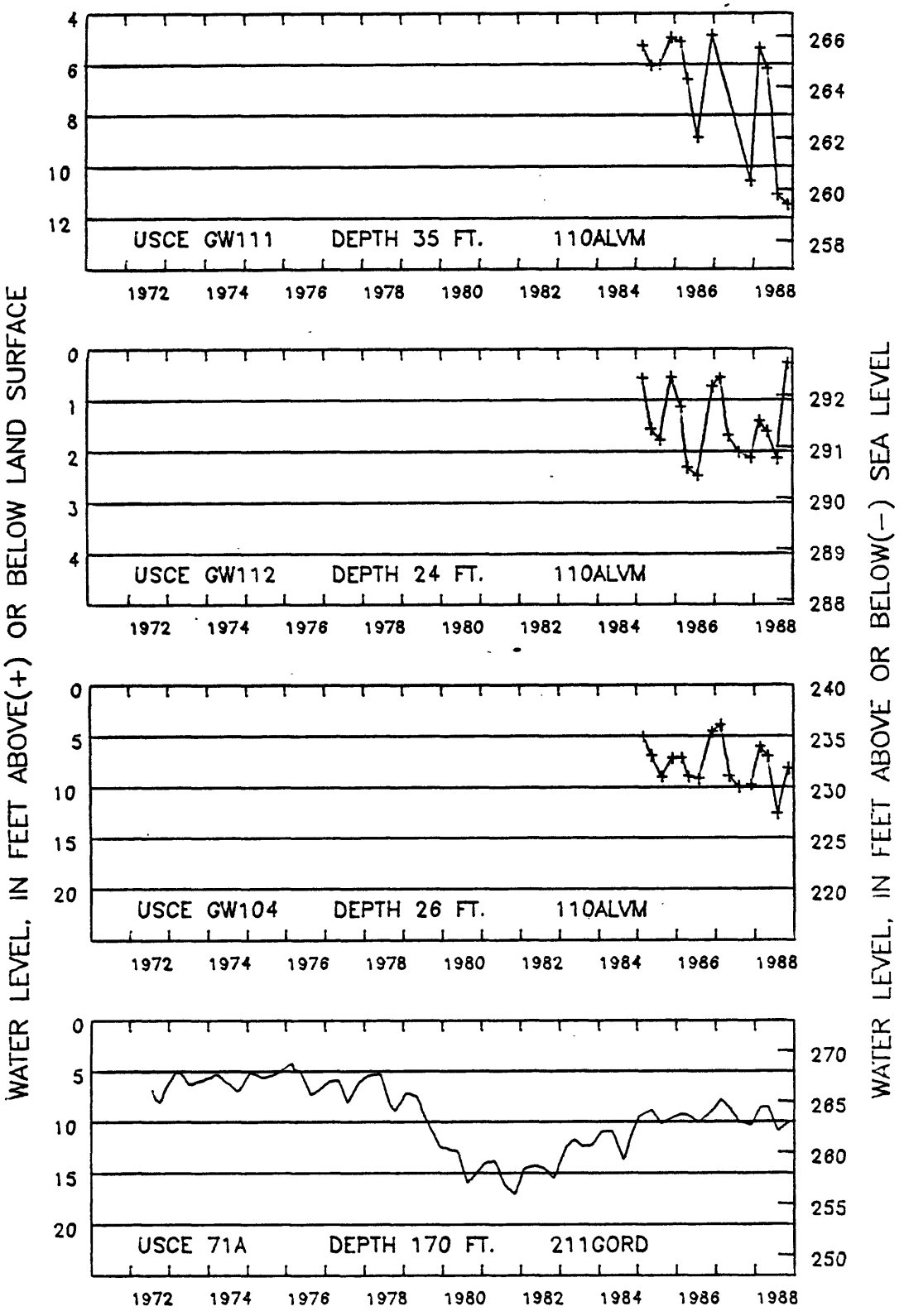

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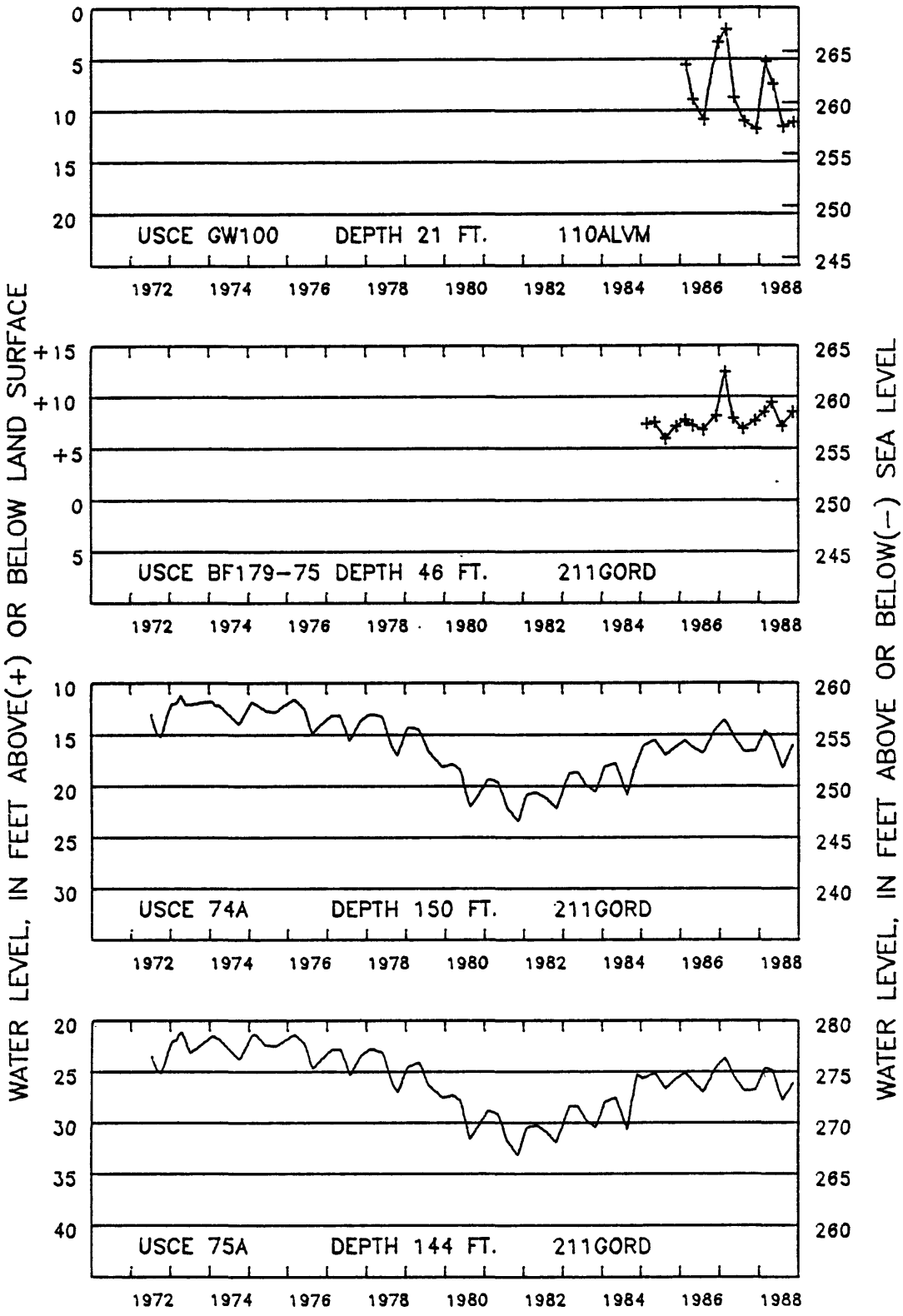

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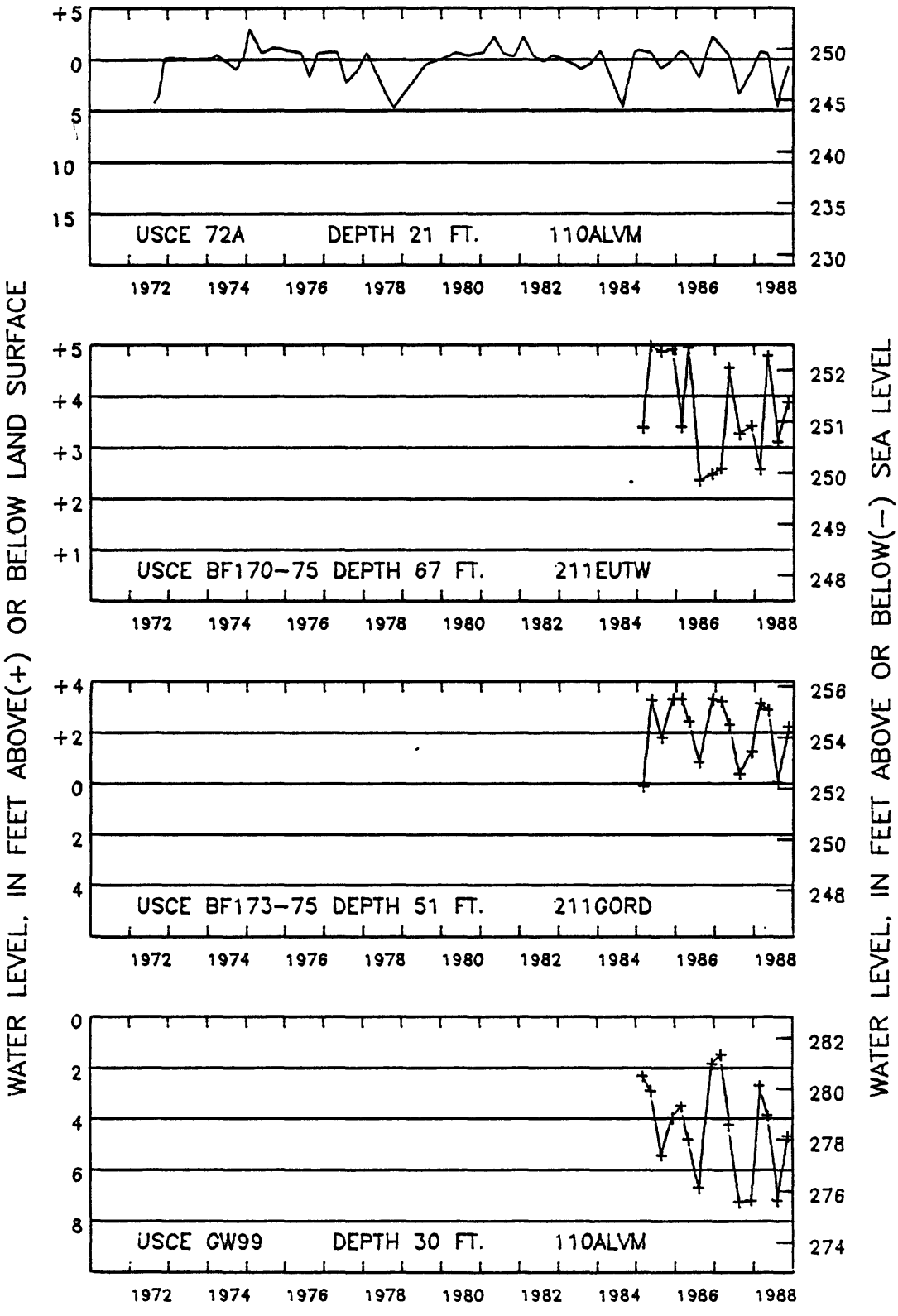

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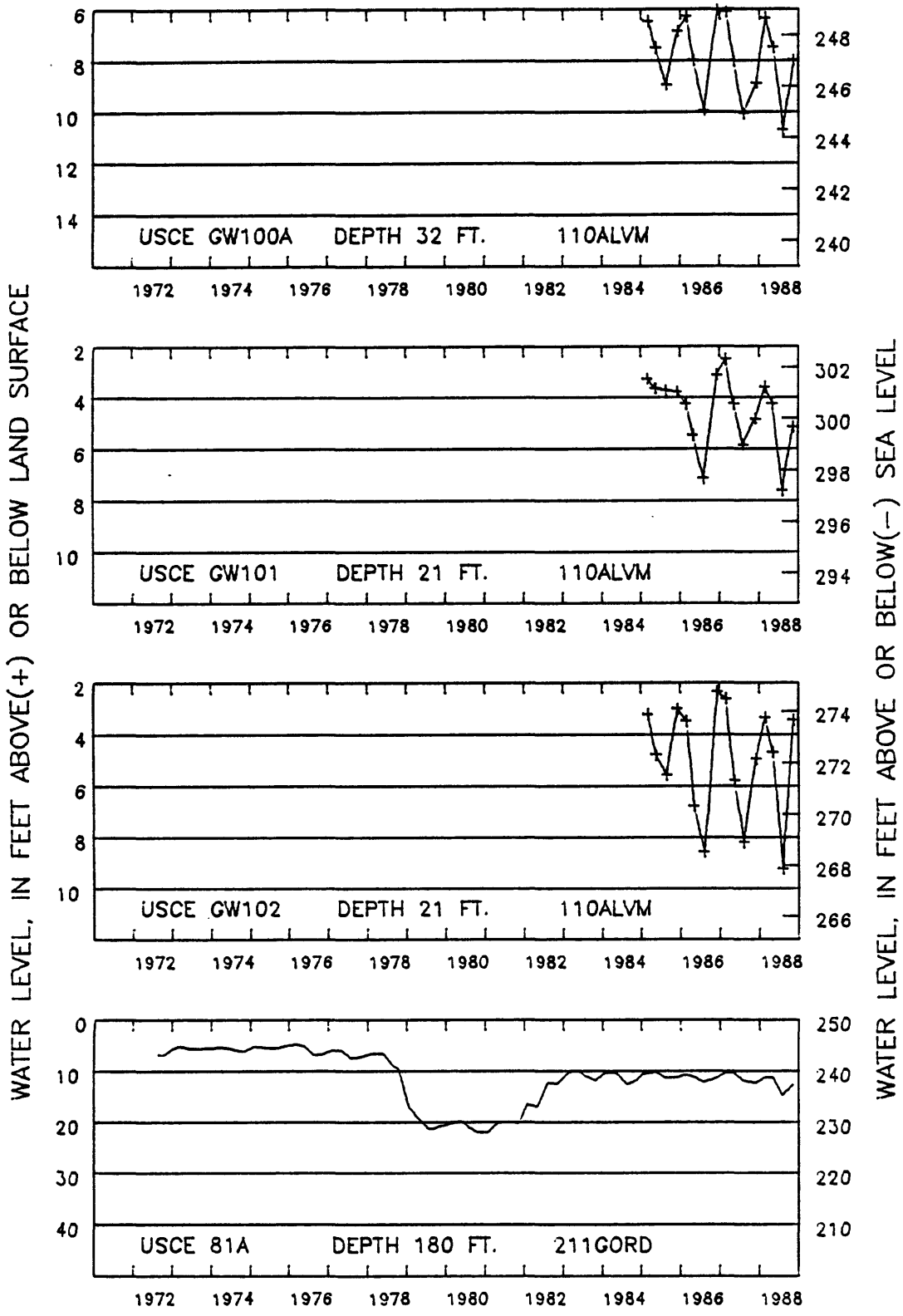

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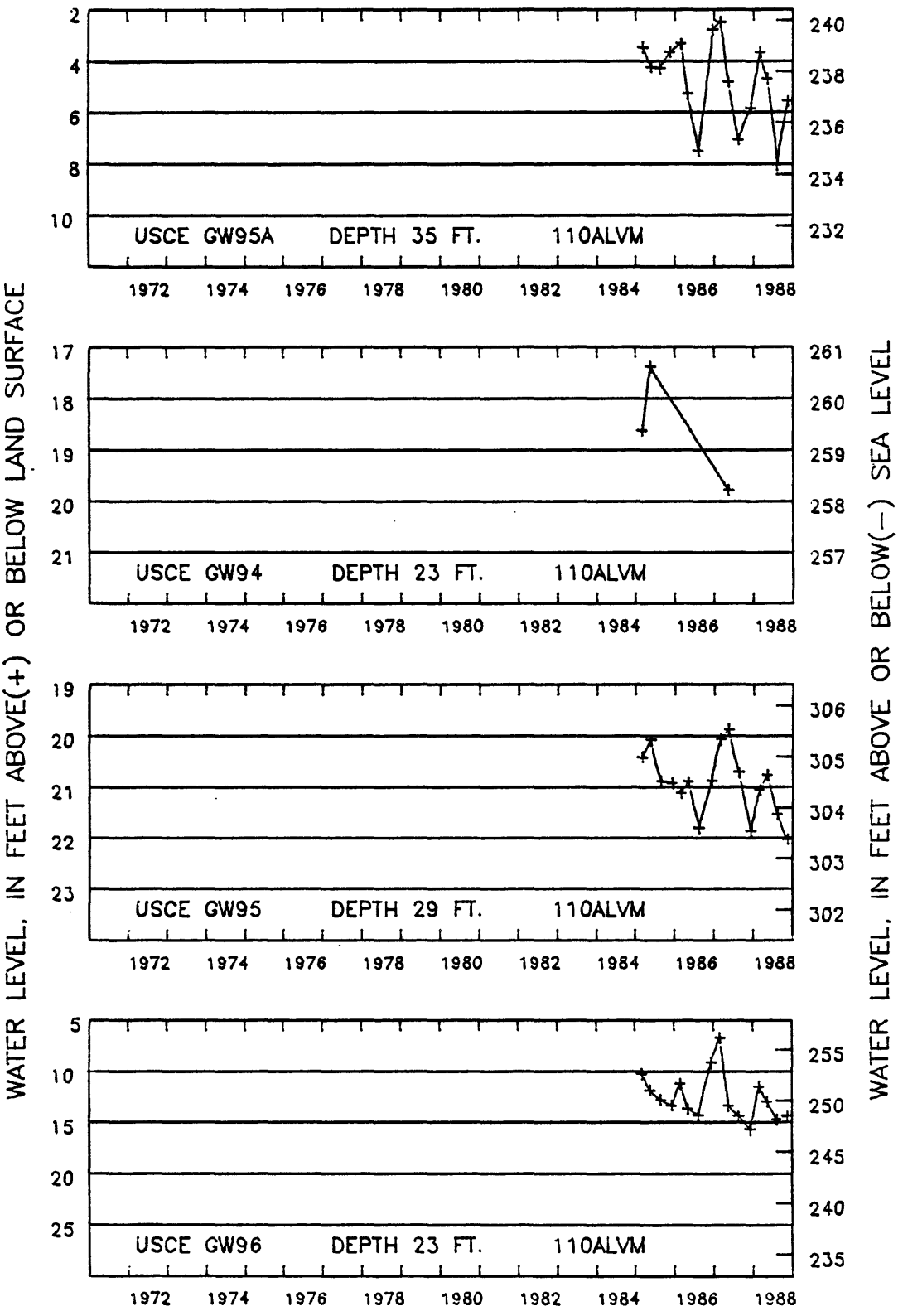
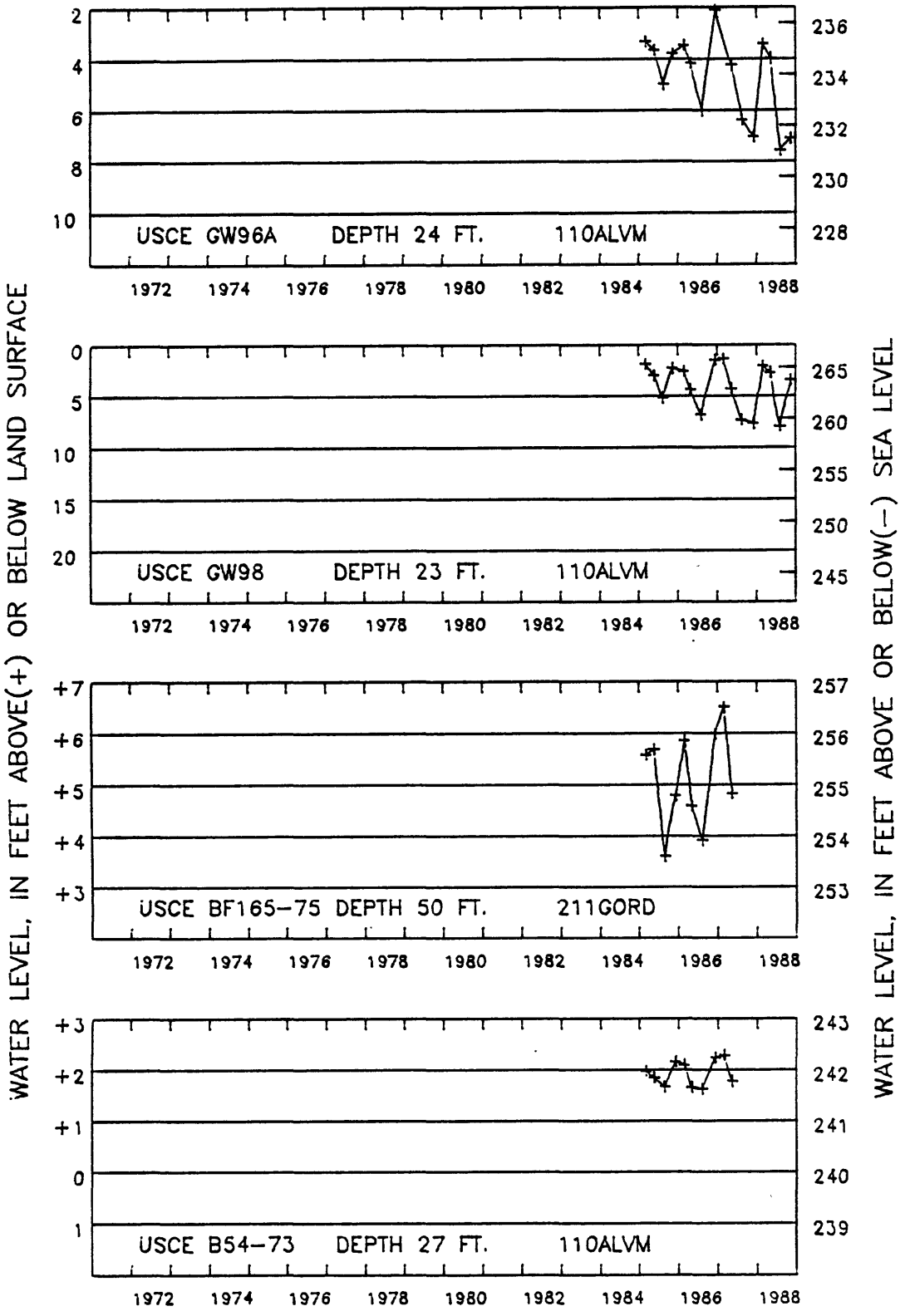


HYDROGRAPHS OF TENNESSEE–TOMBIGBEE OBSERVATION WELLS



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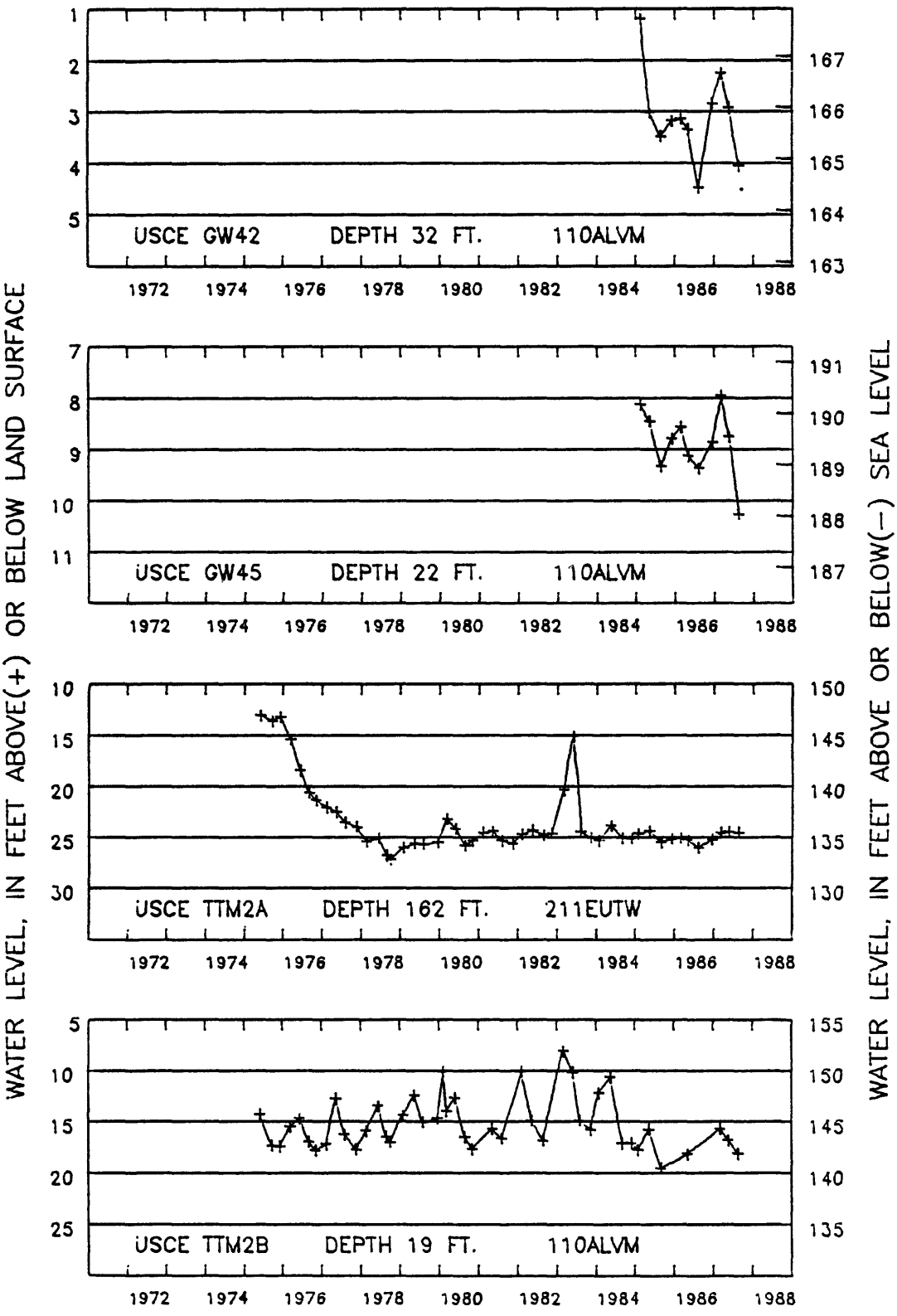

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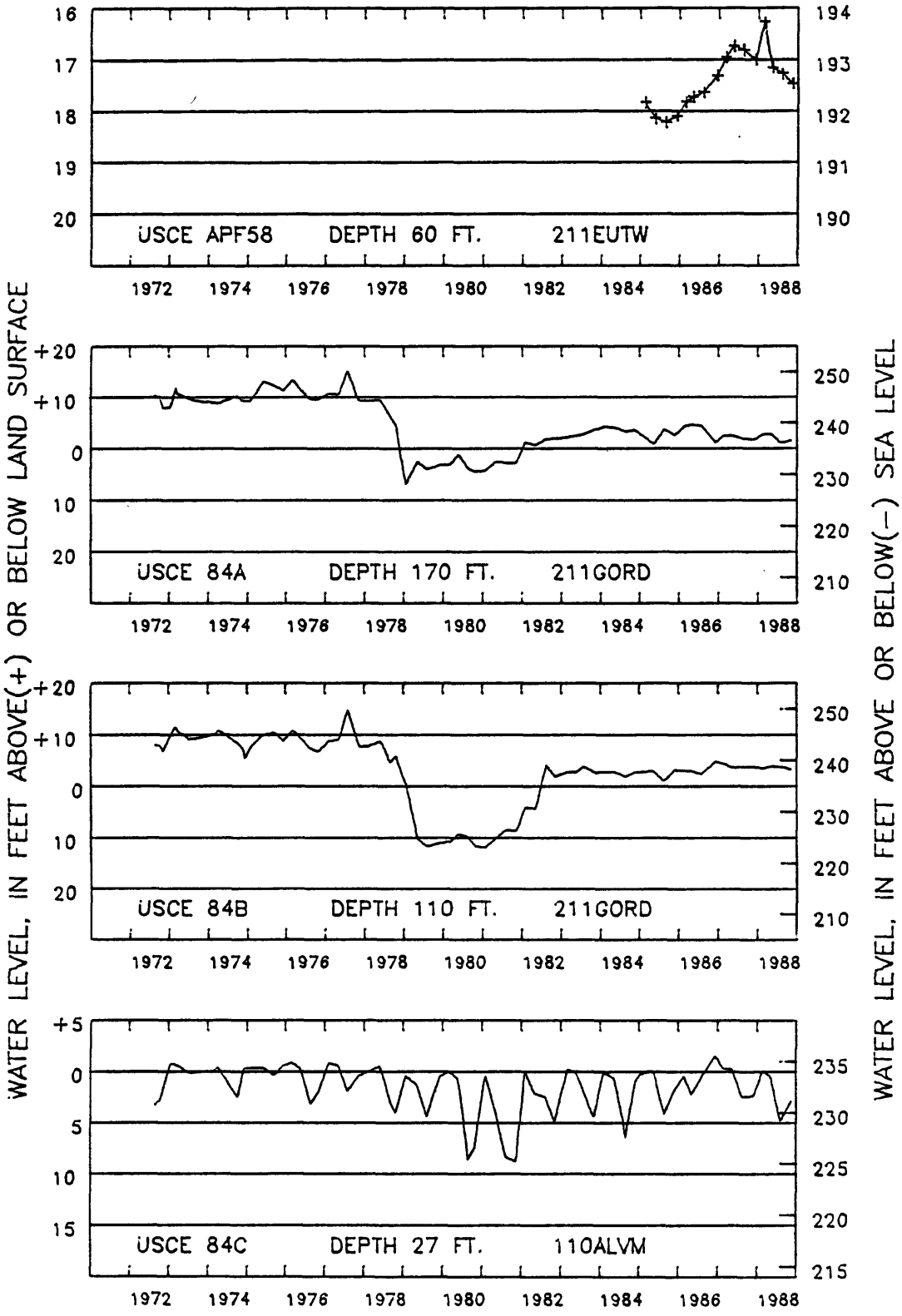

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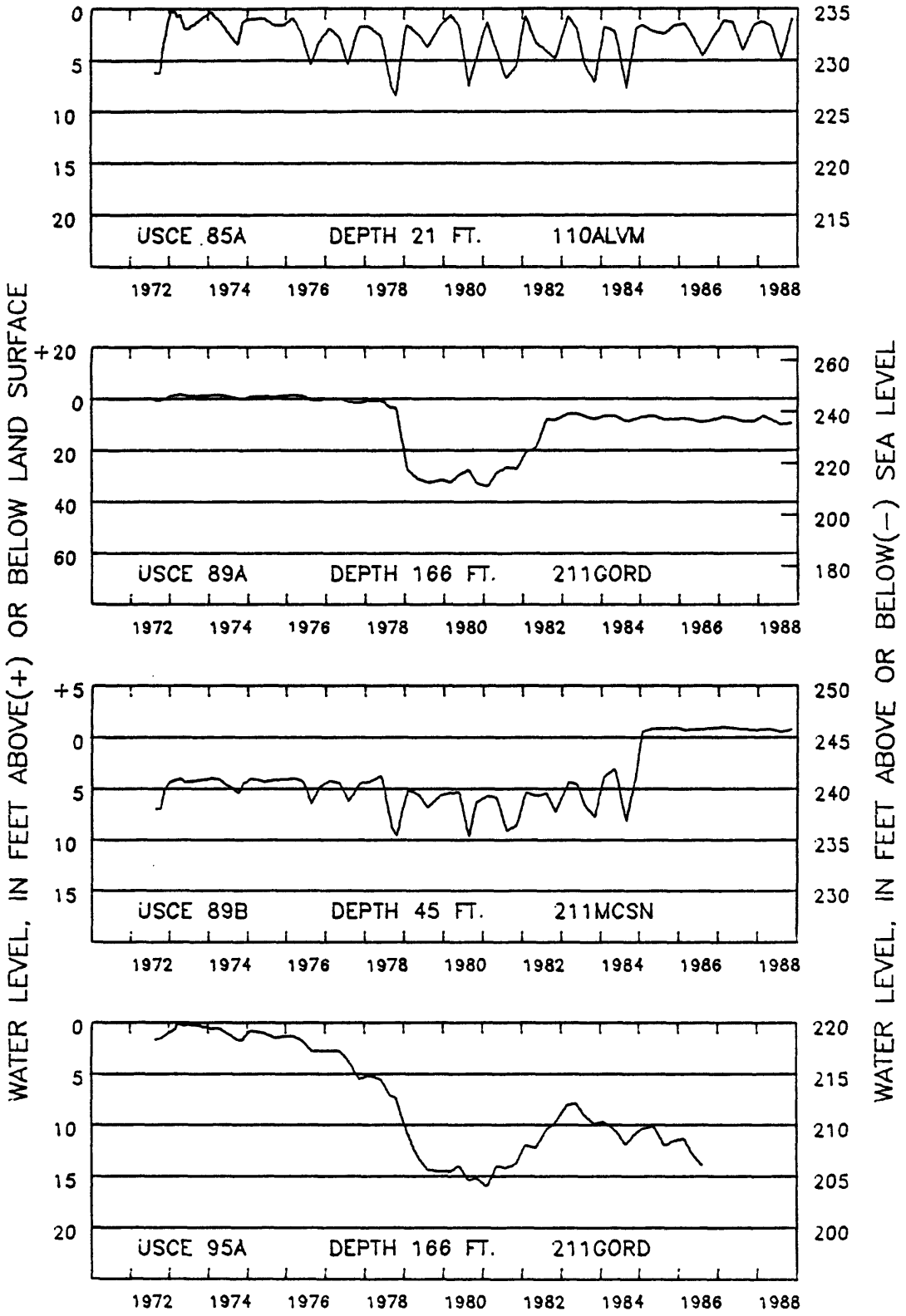

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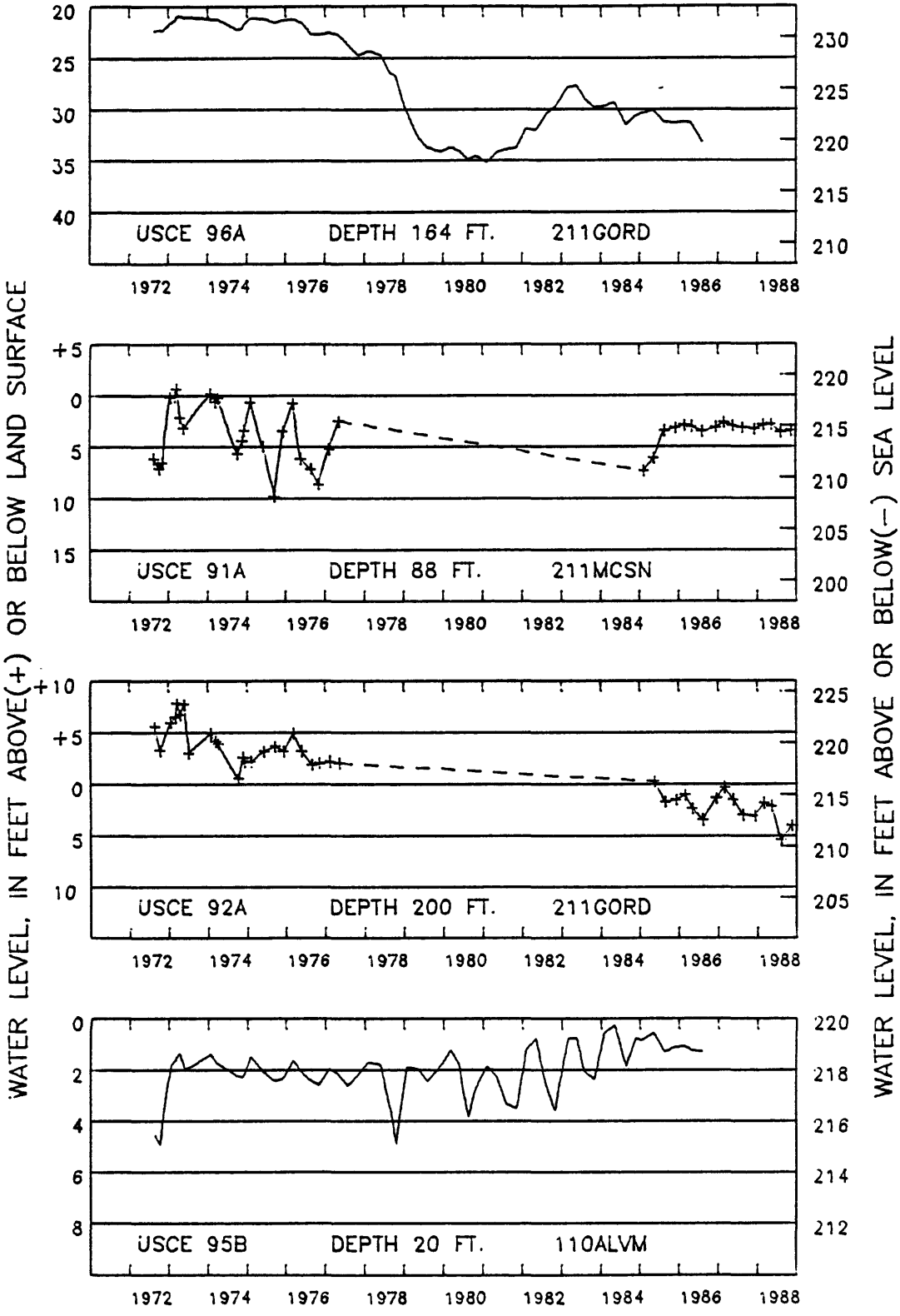

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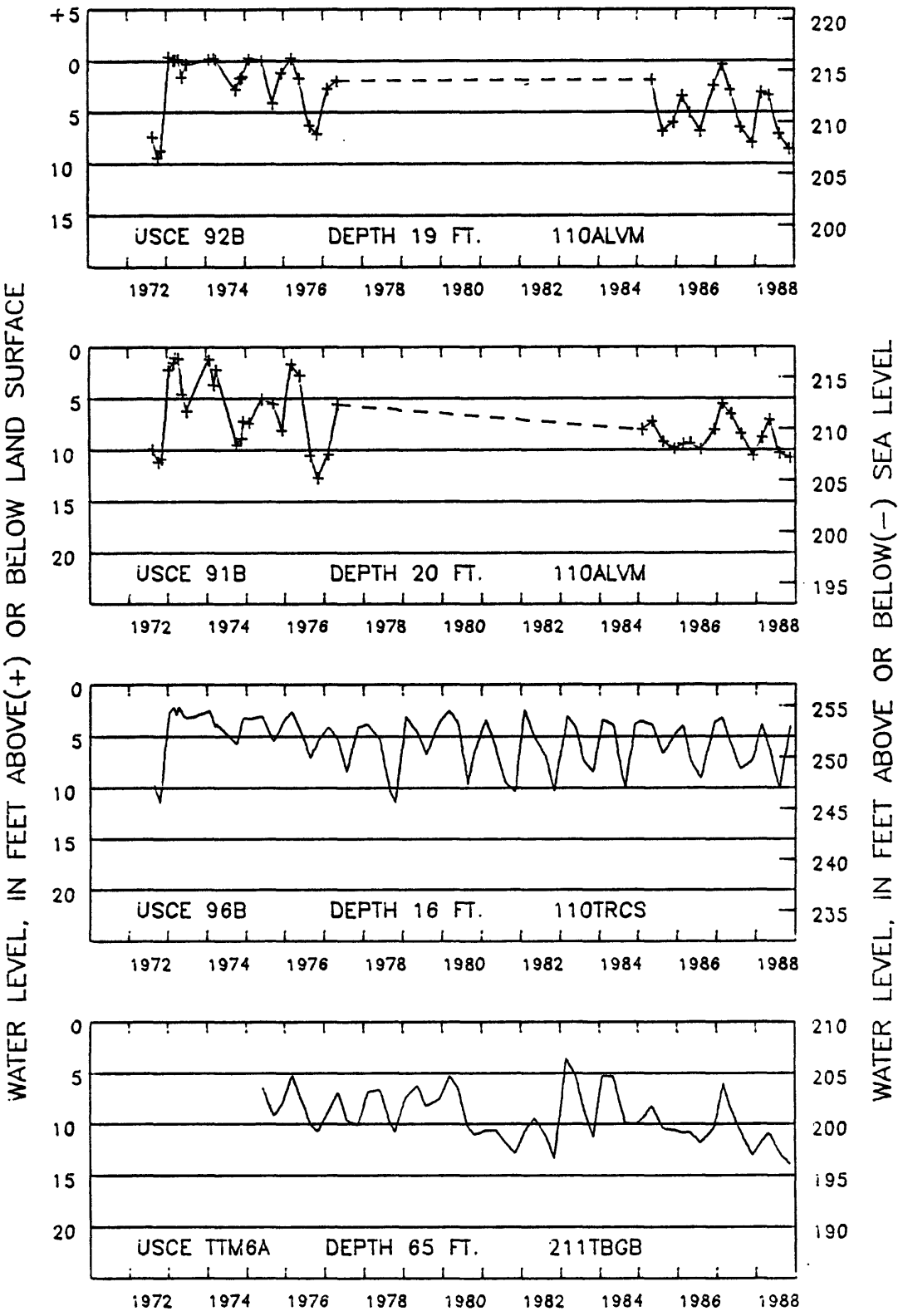

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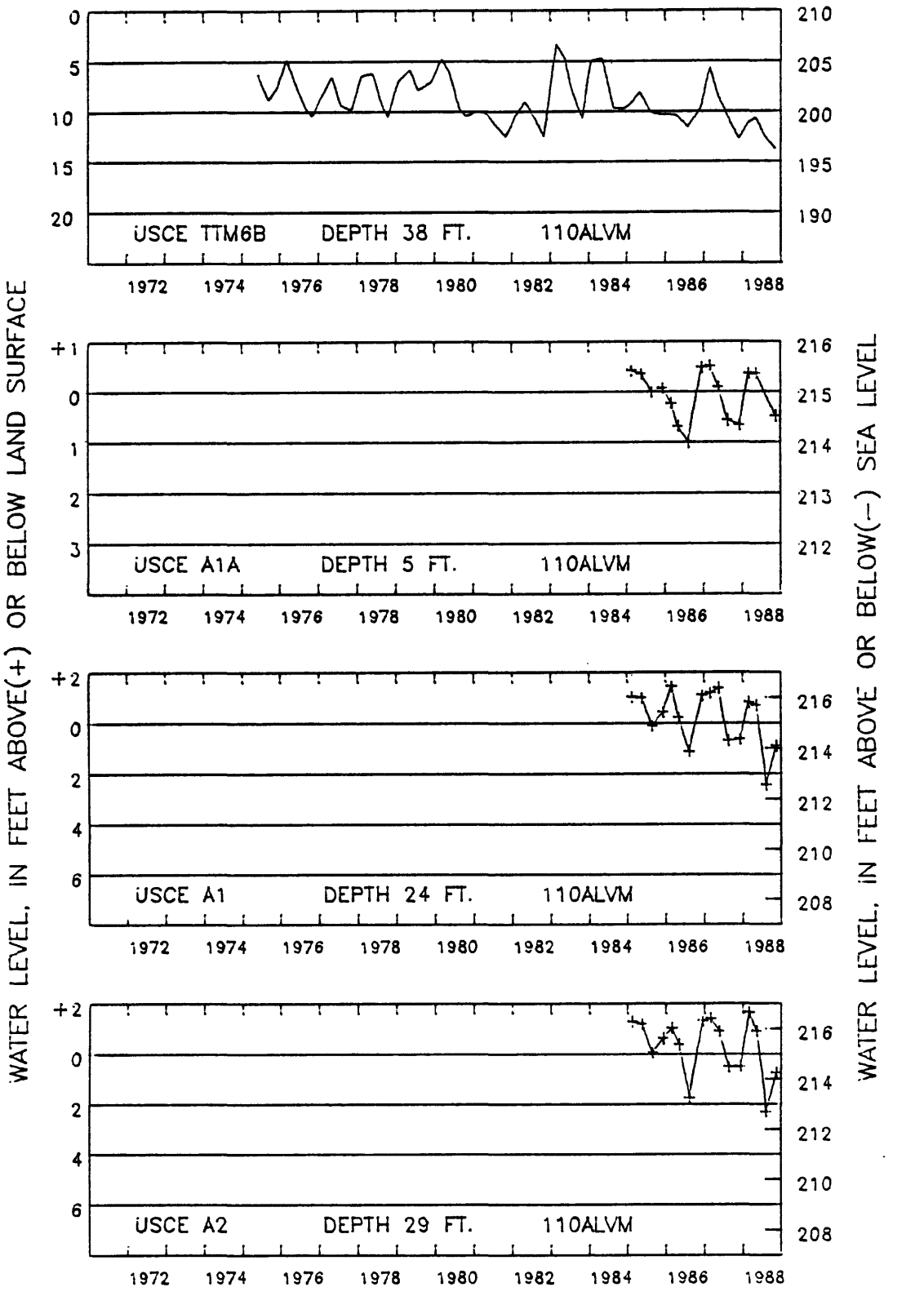

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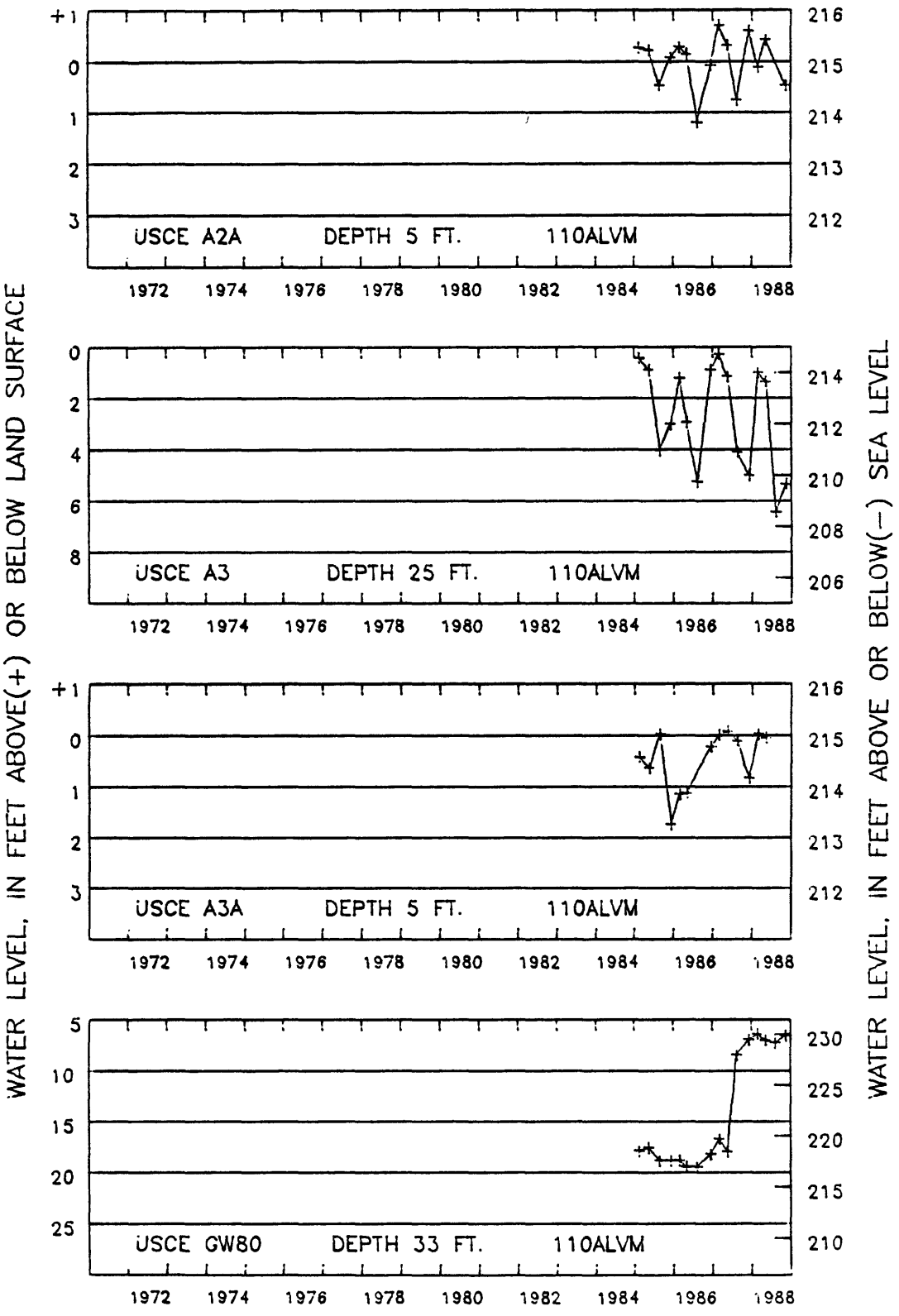

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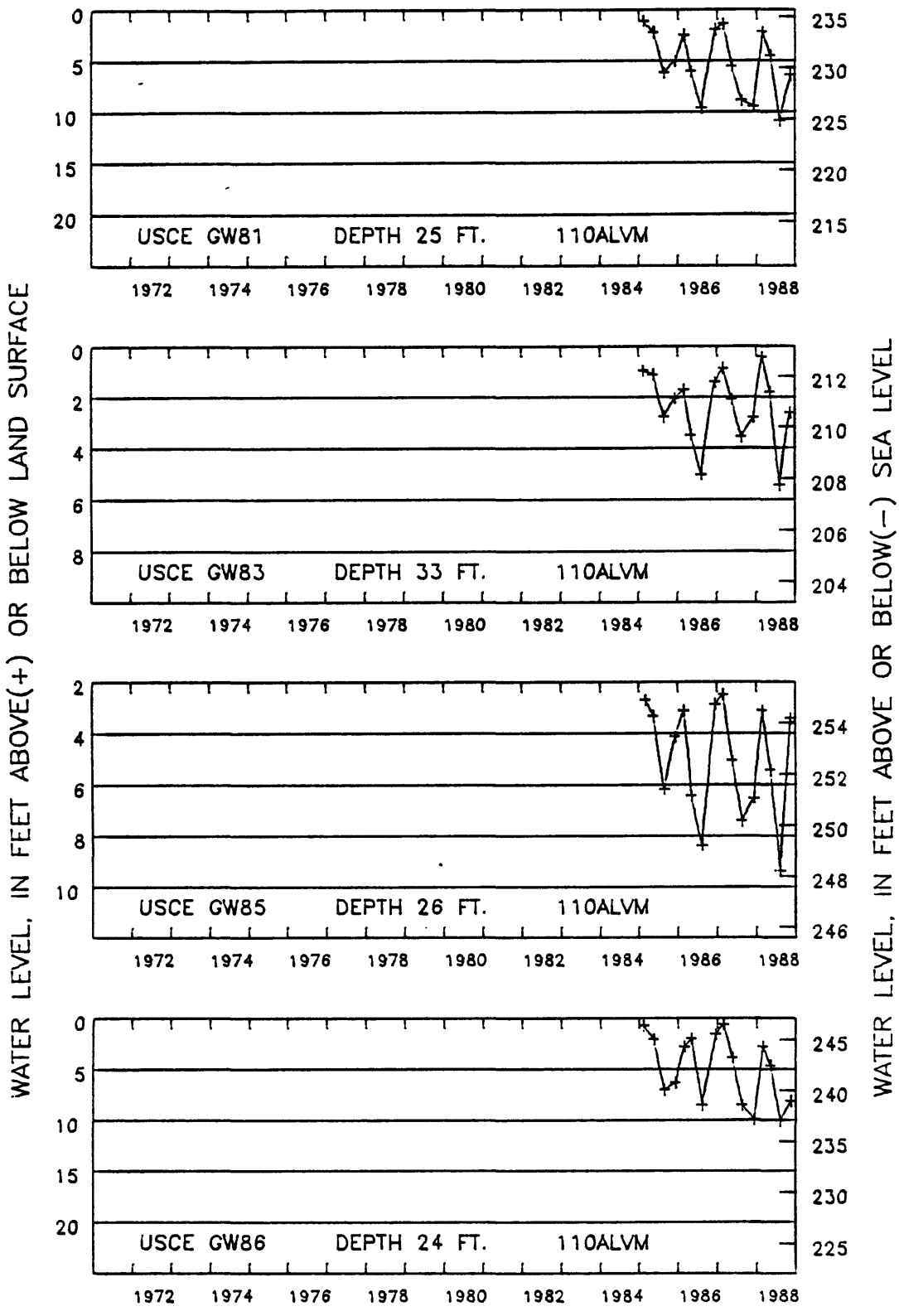

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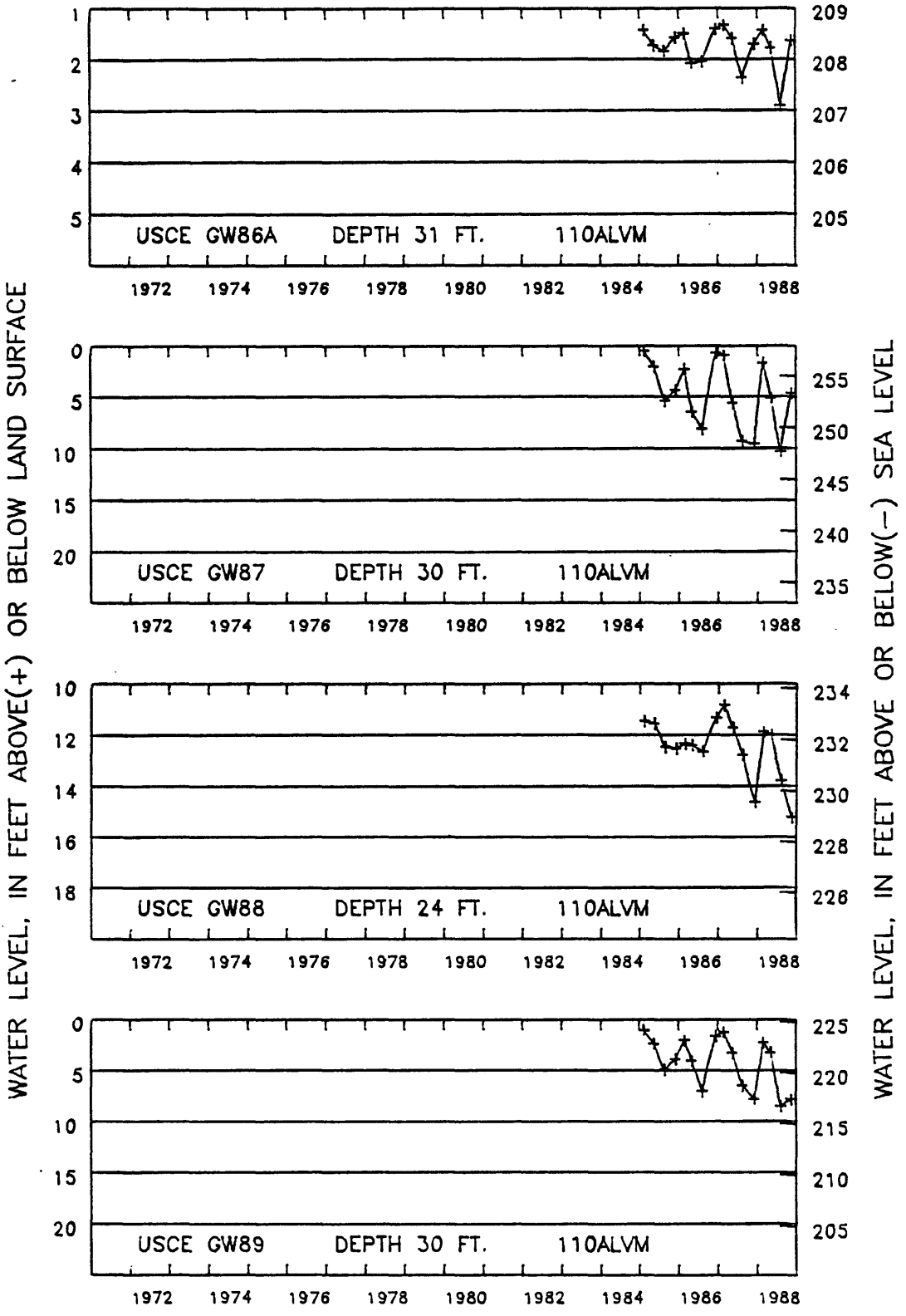

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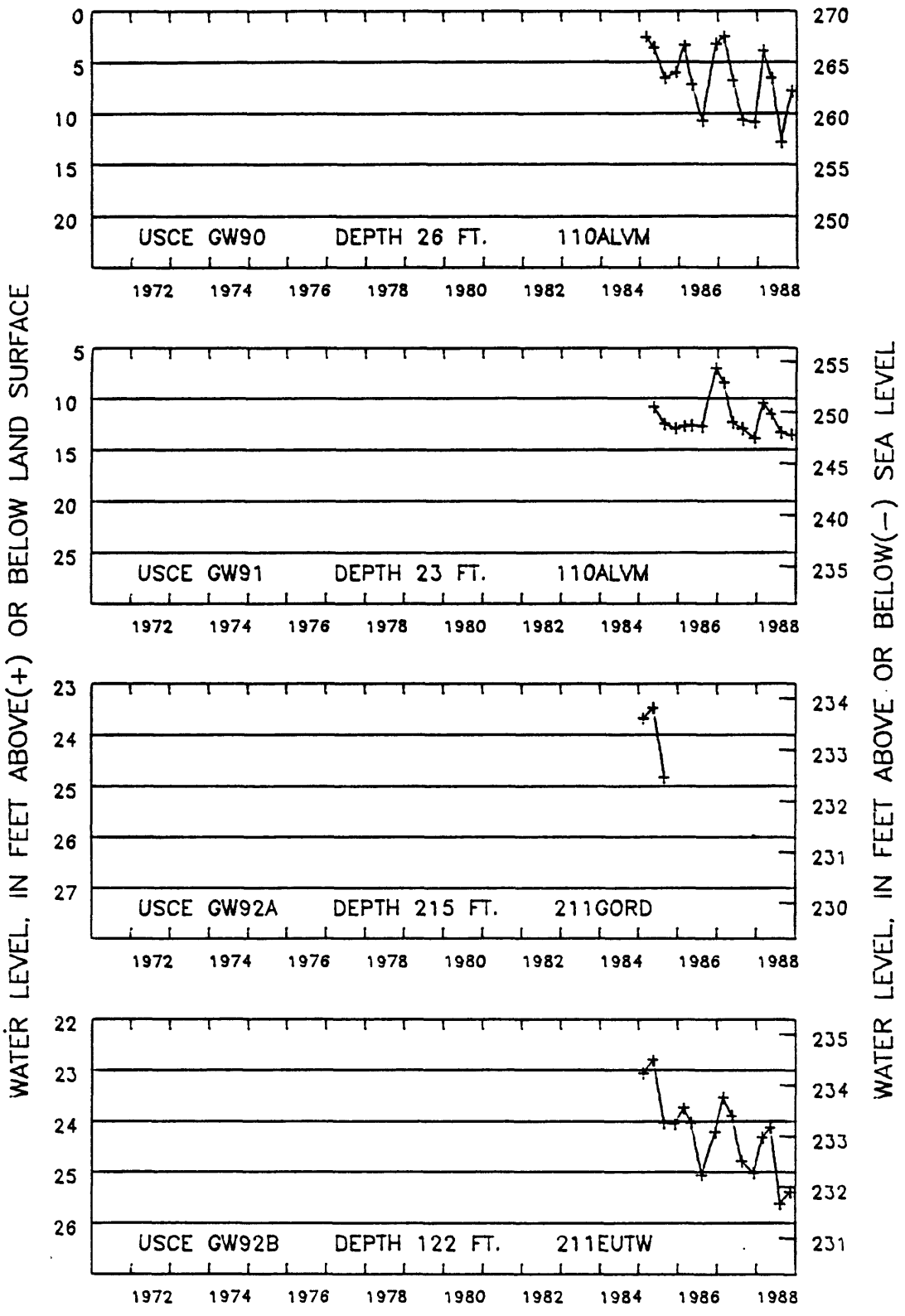

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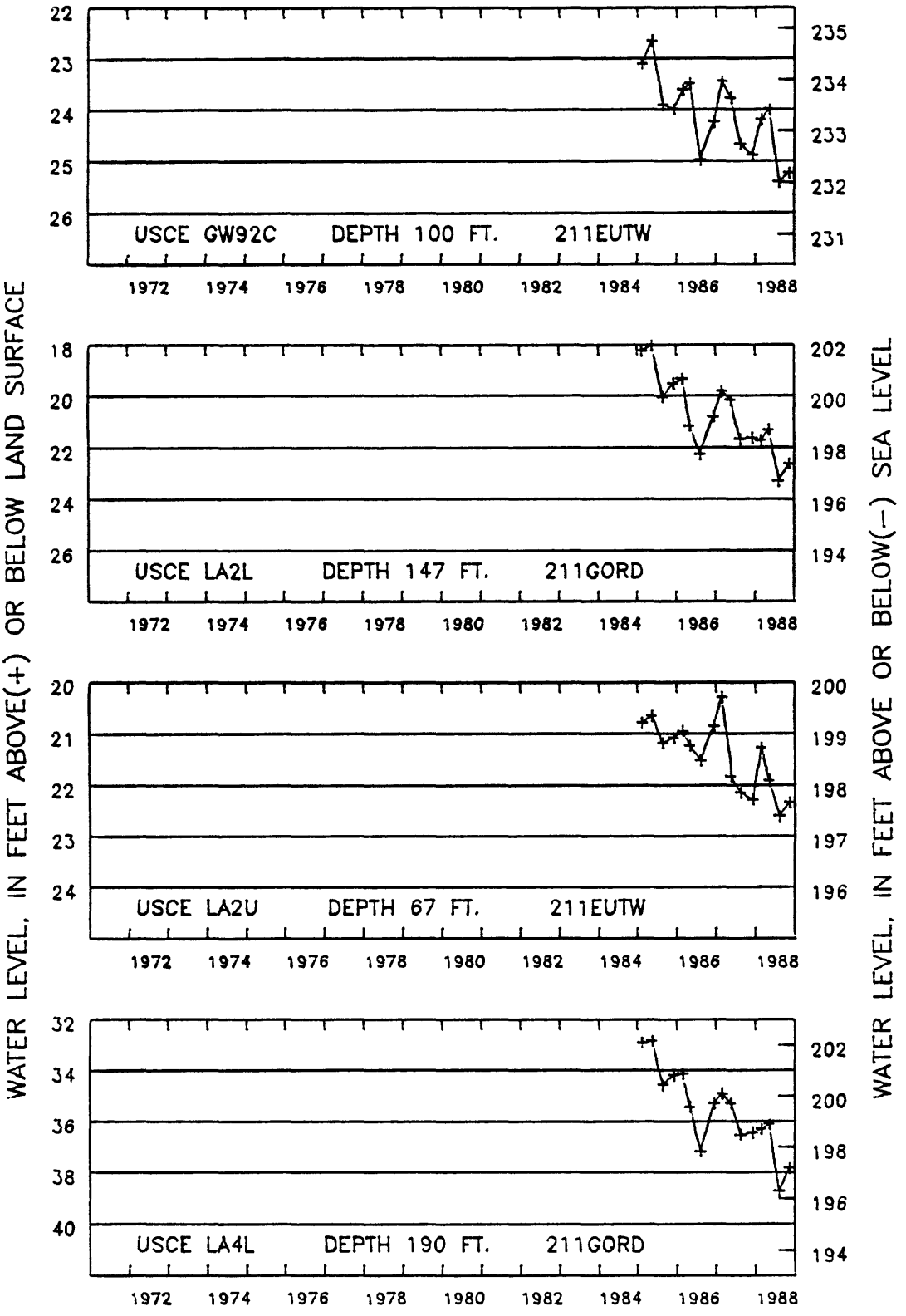

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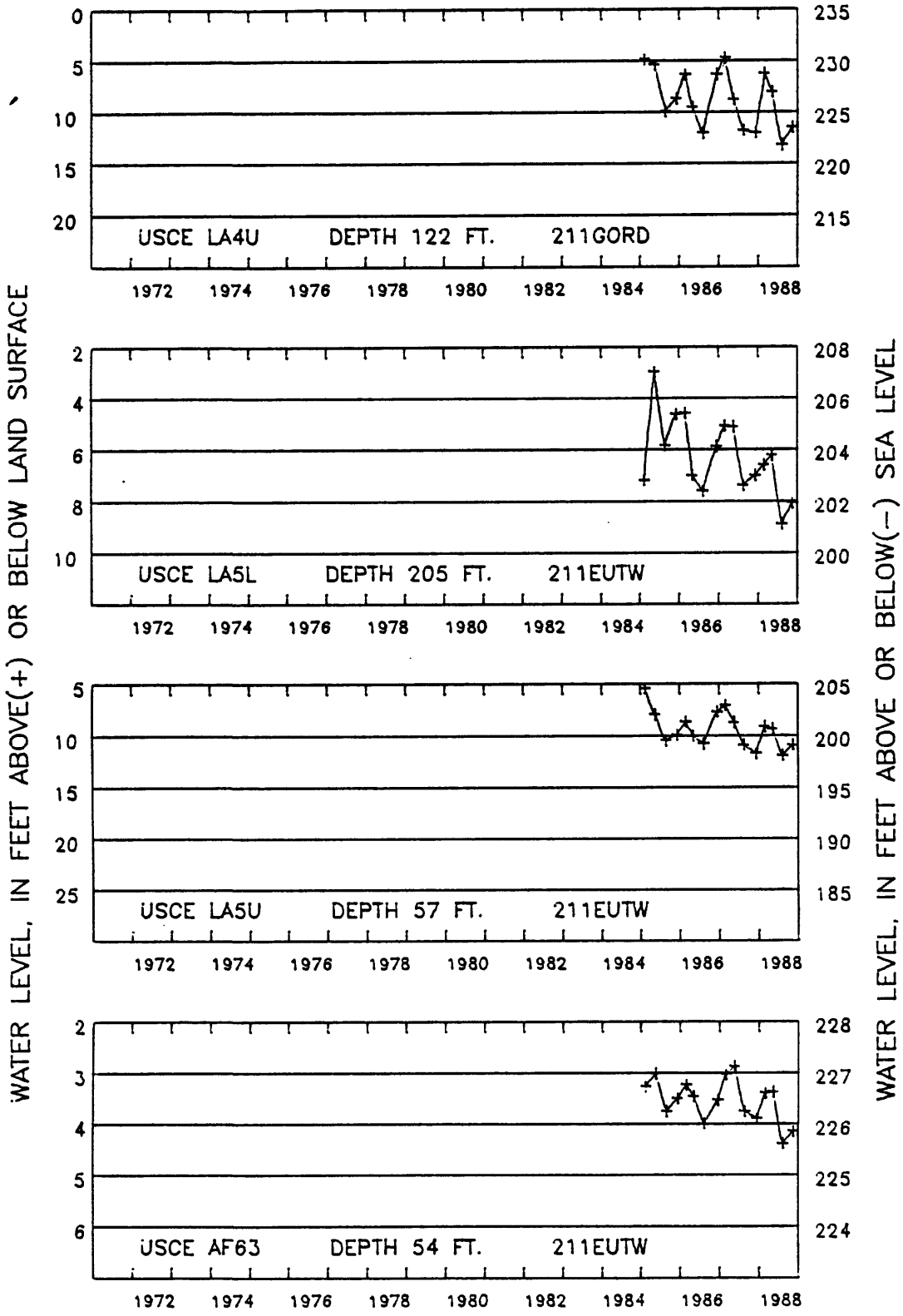

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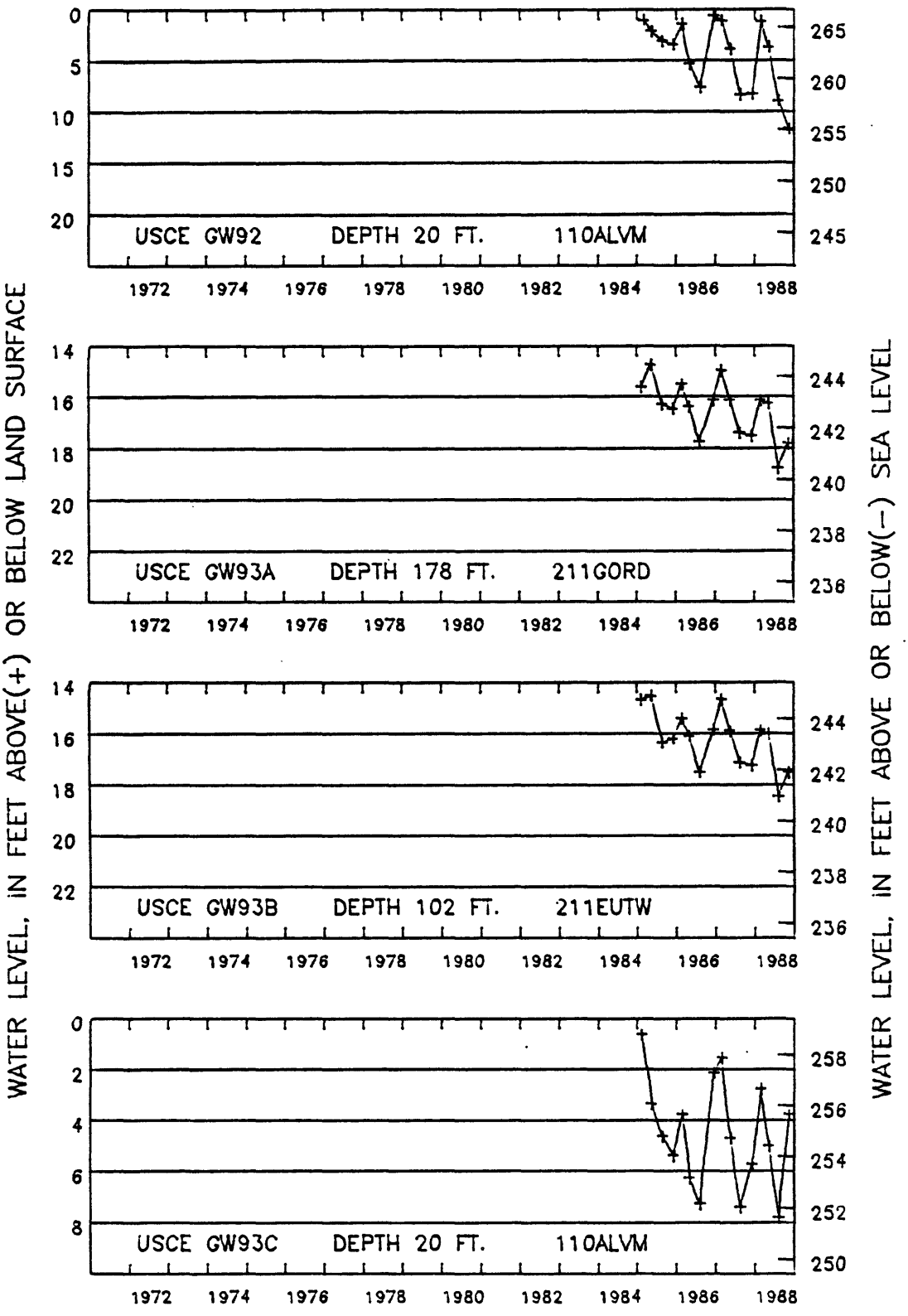

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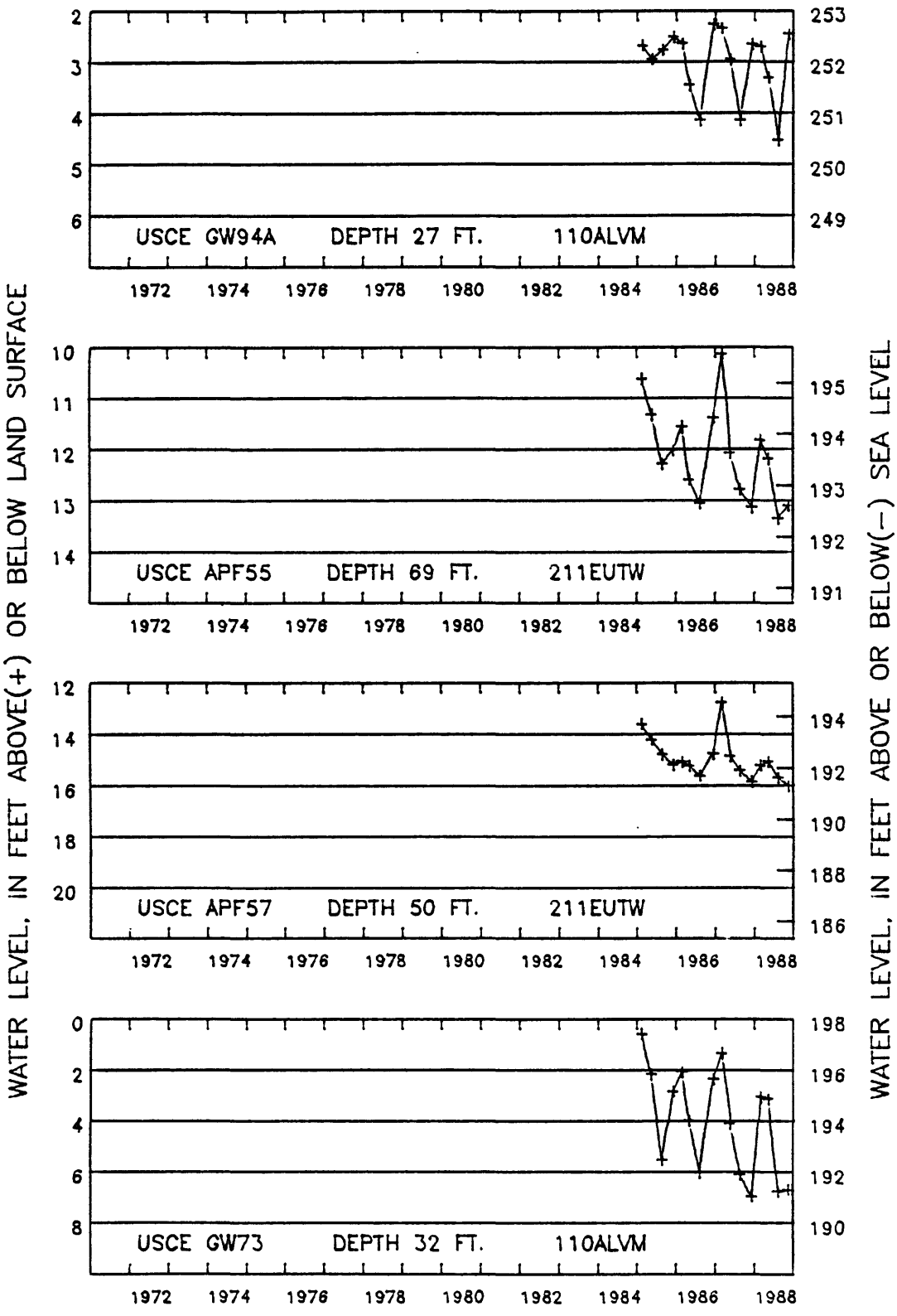

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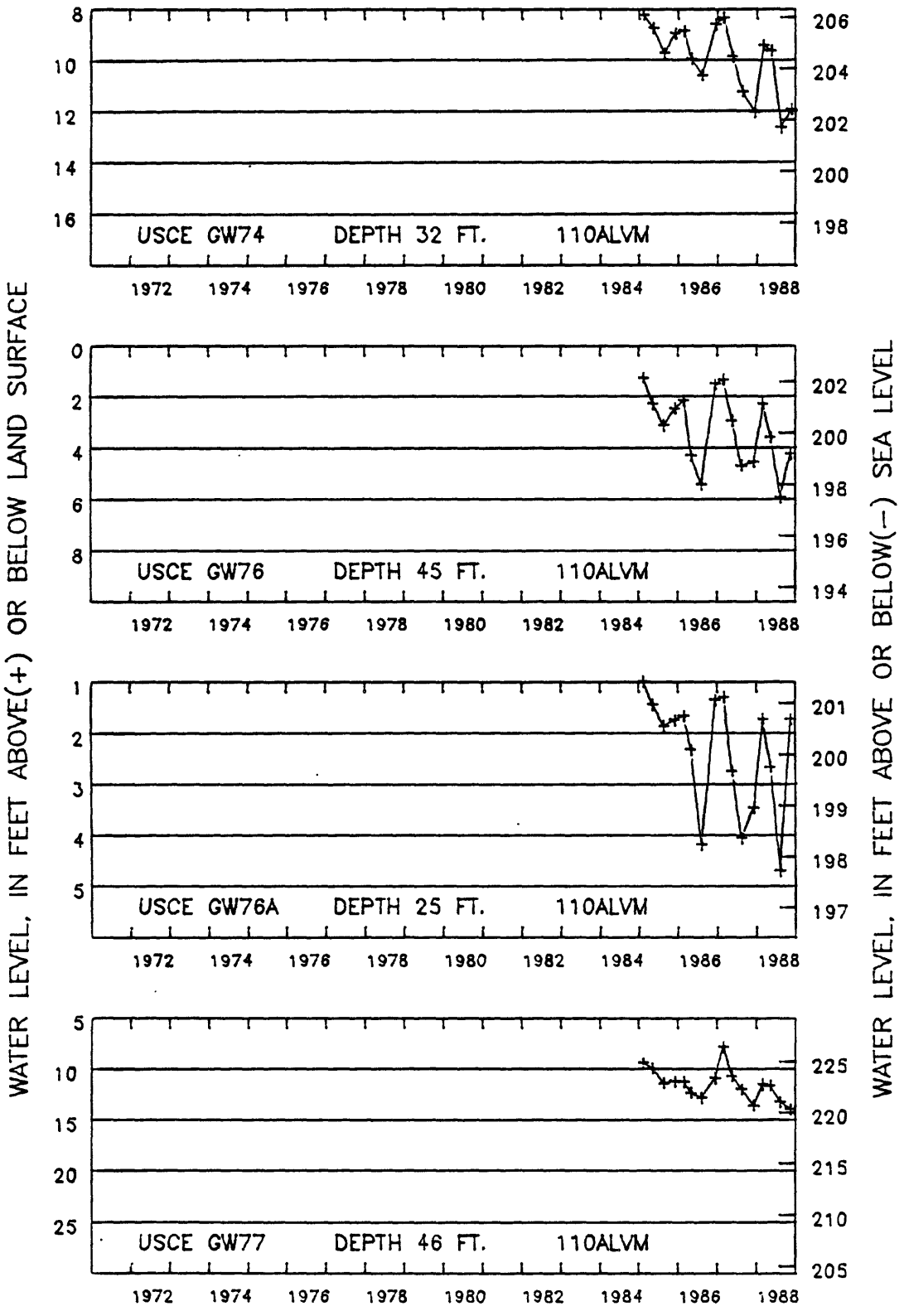

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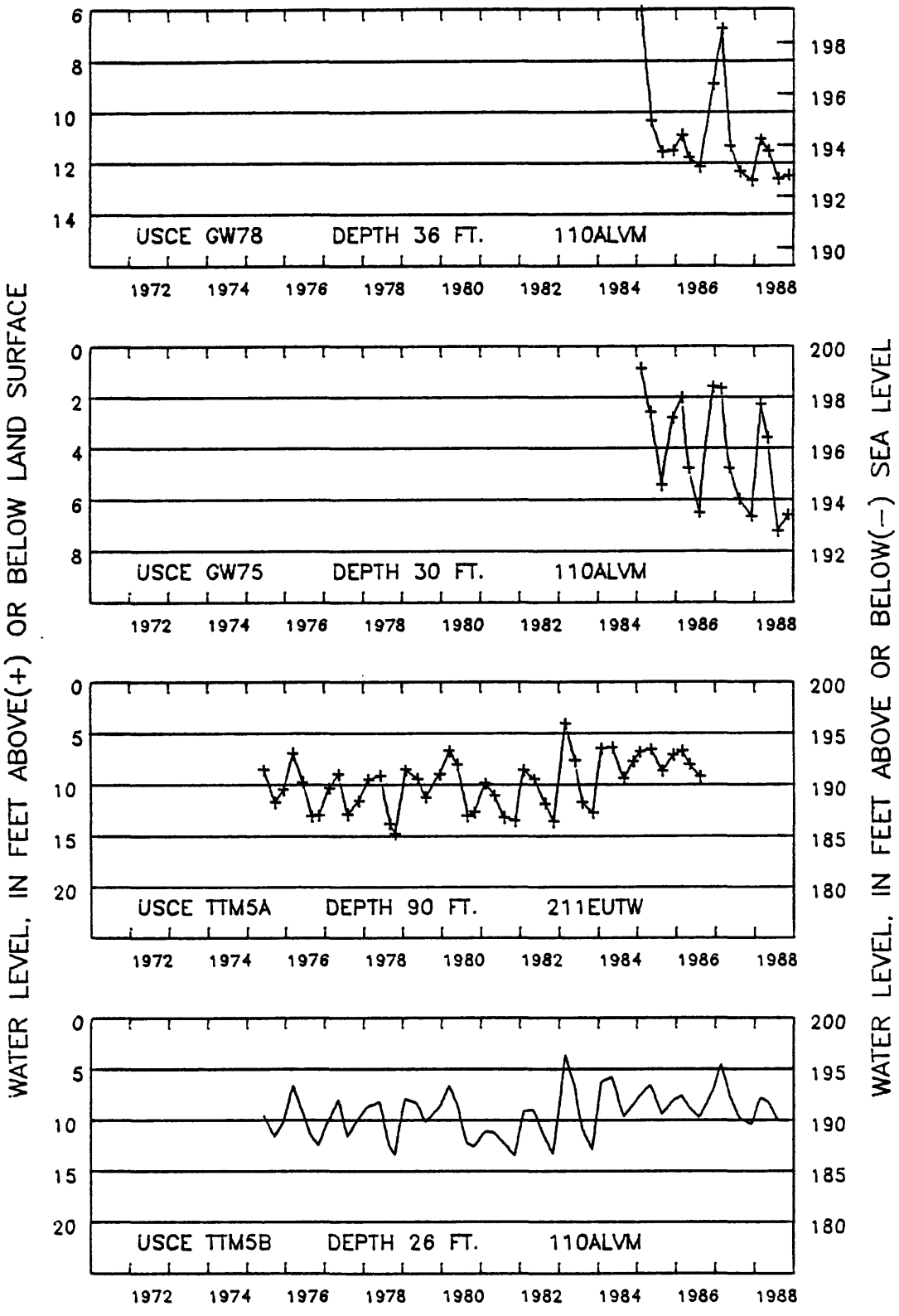

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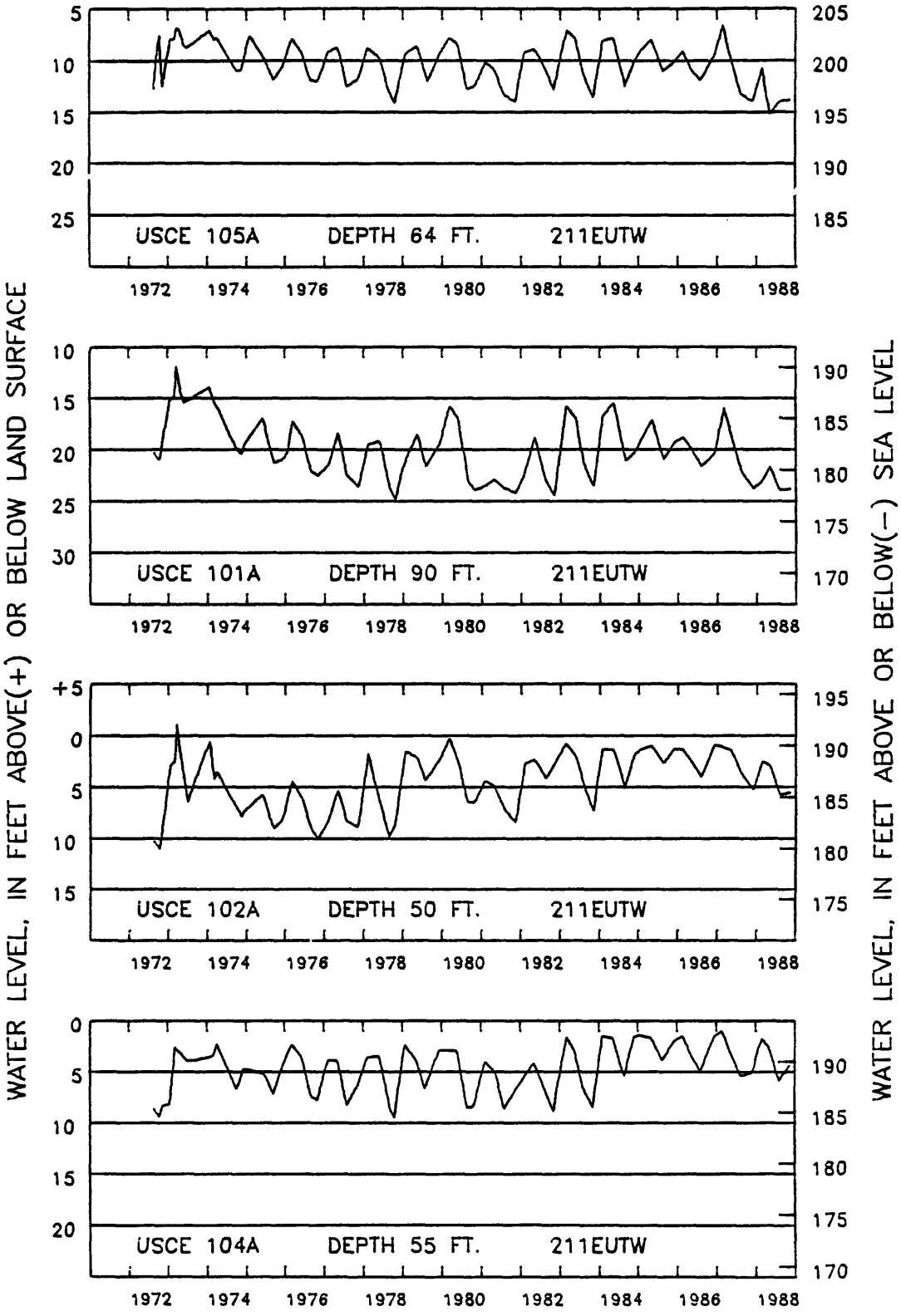

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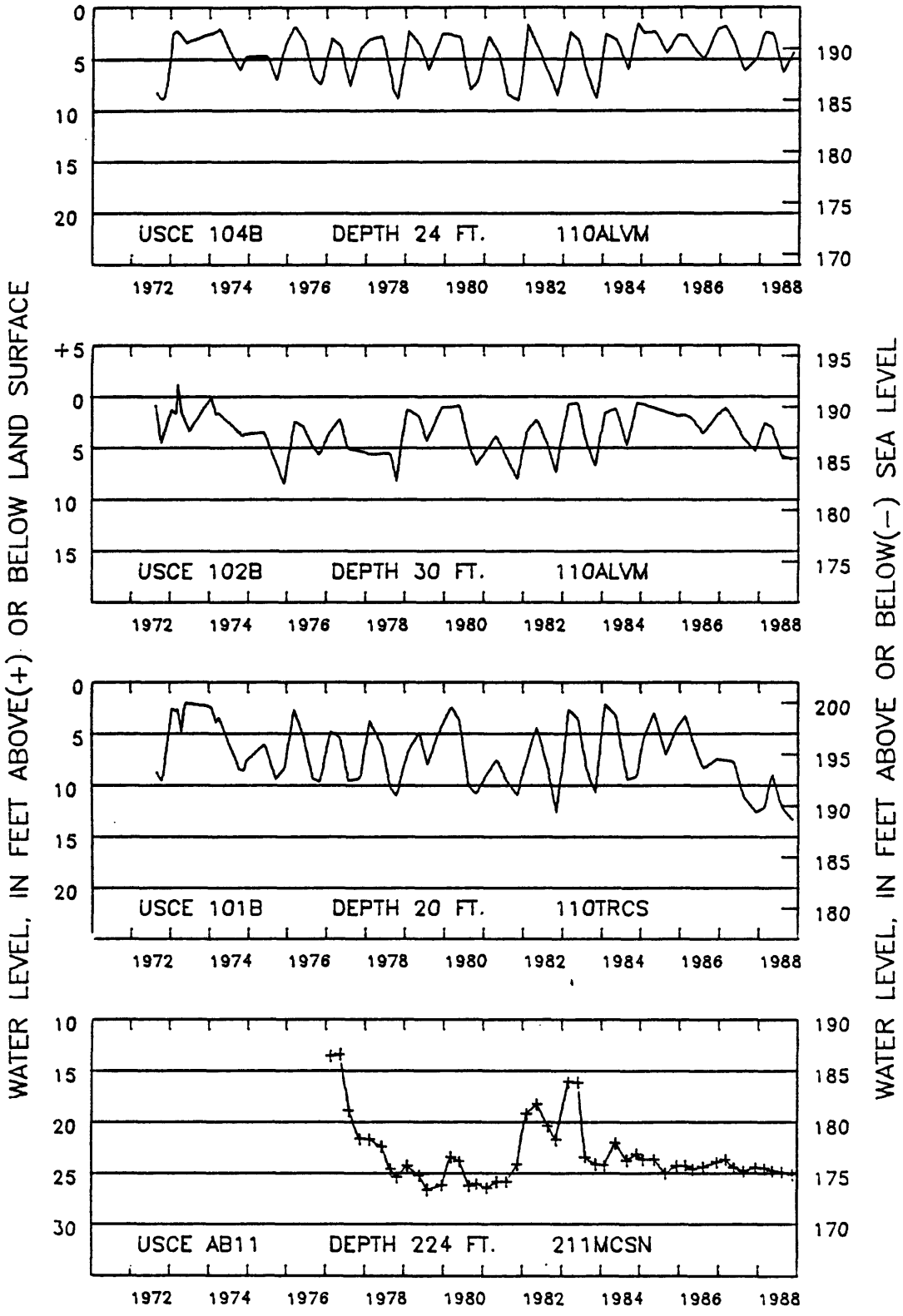

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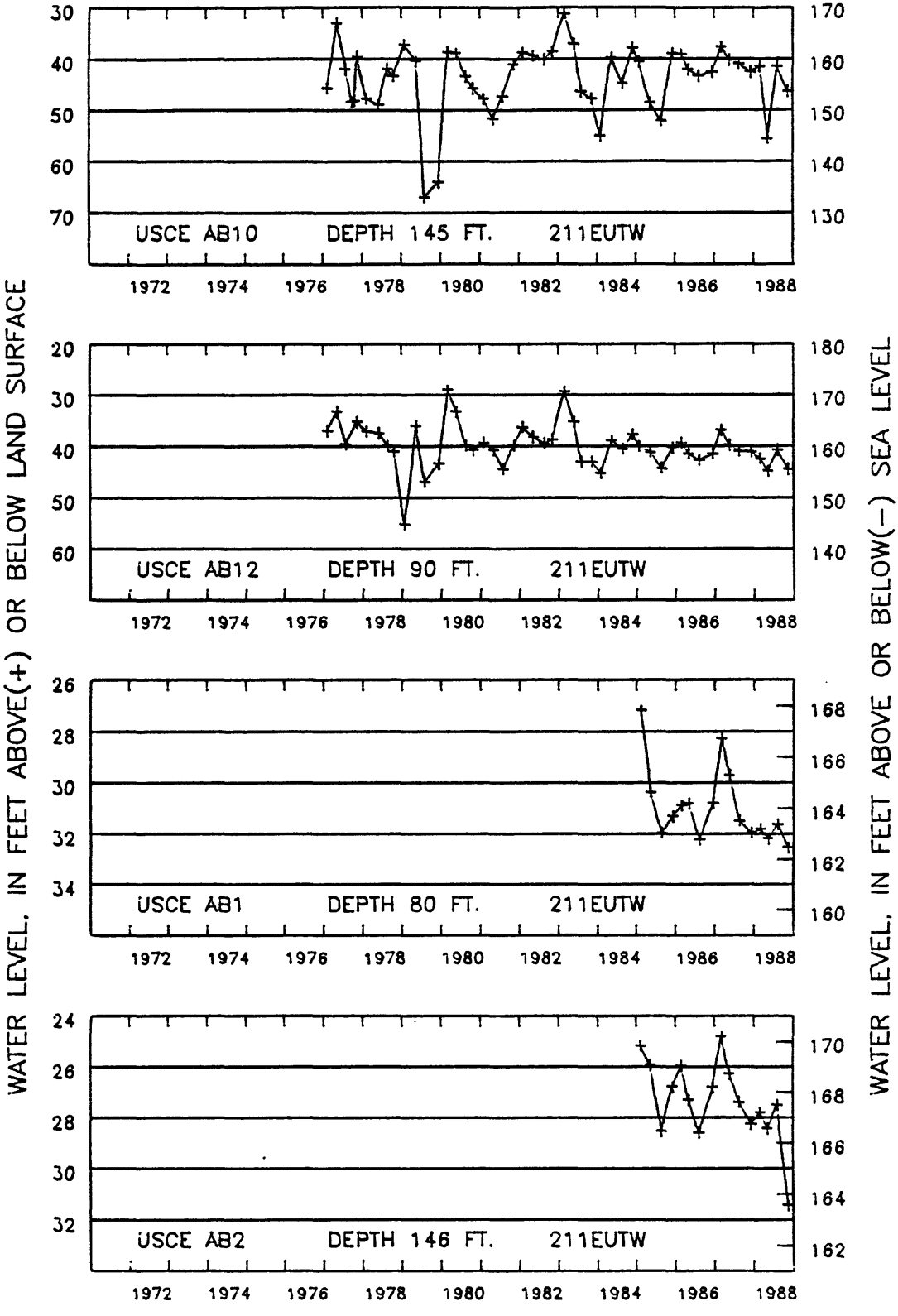

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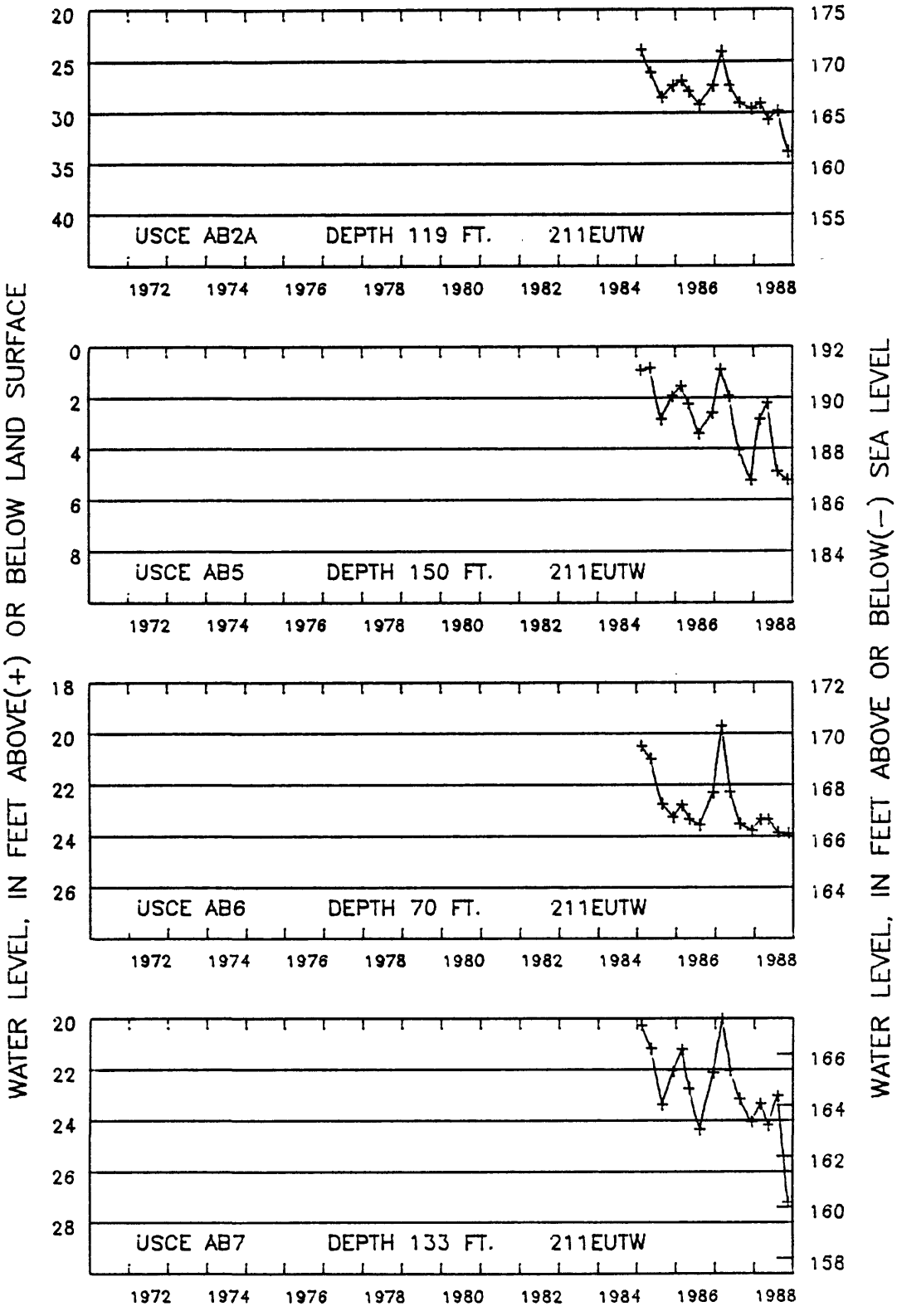

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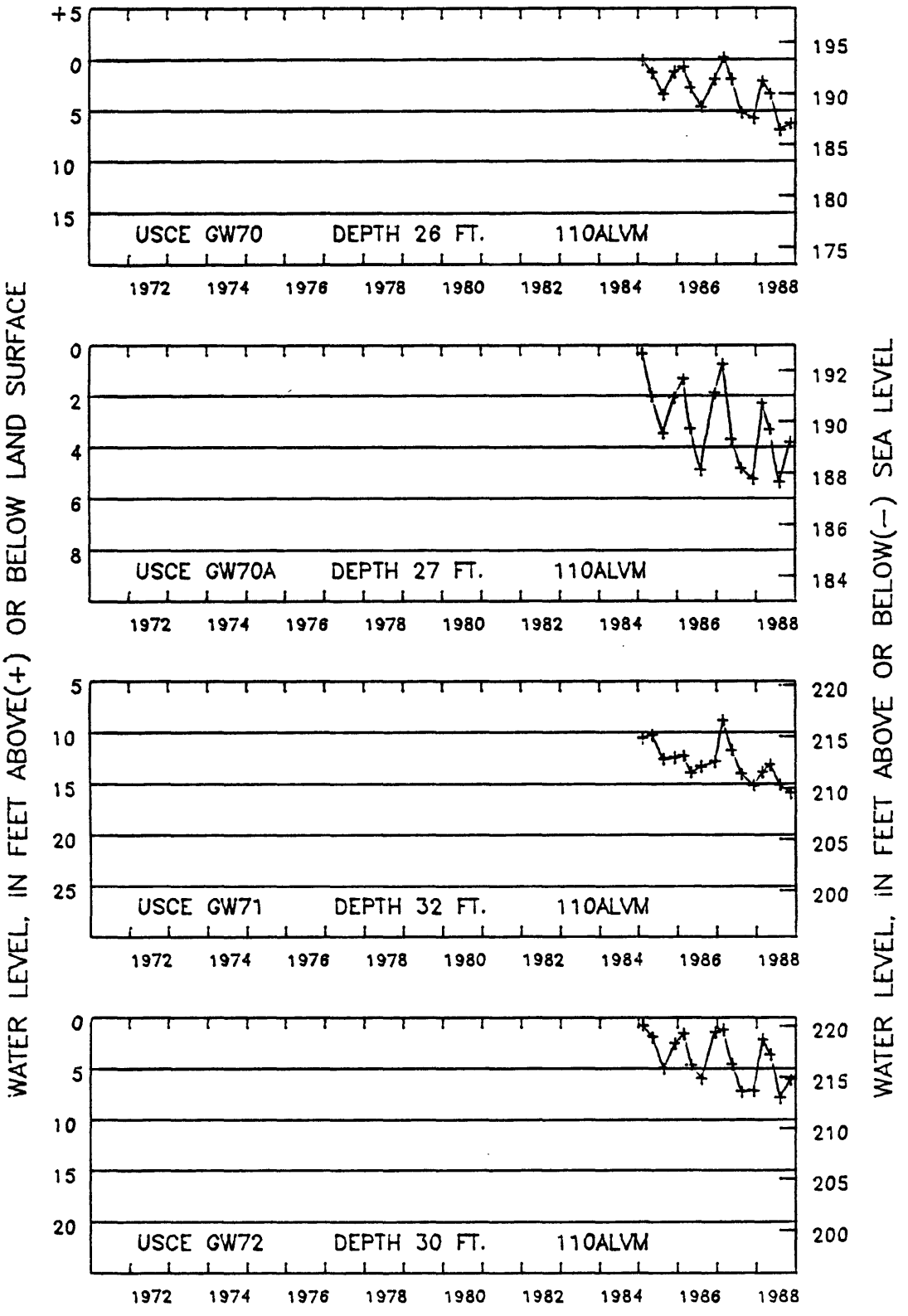

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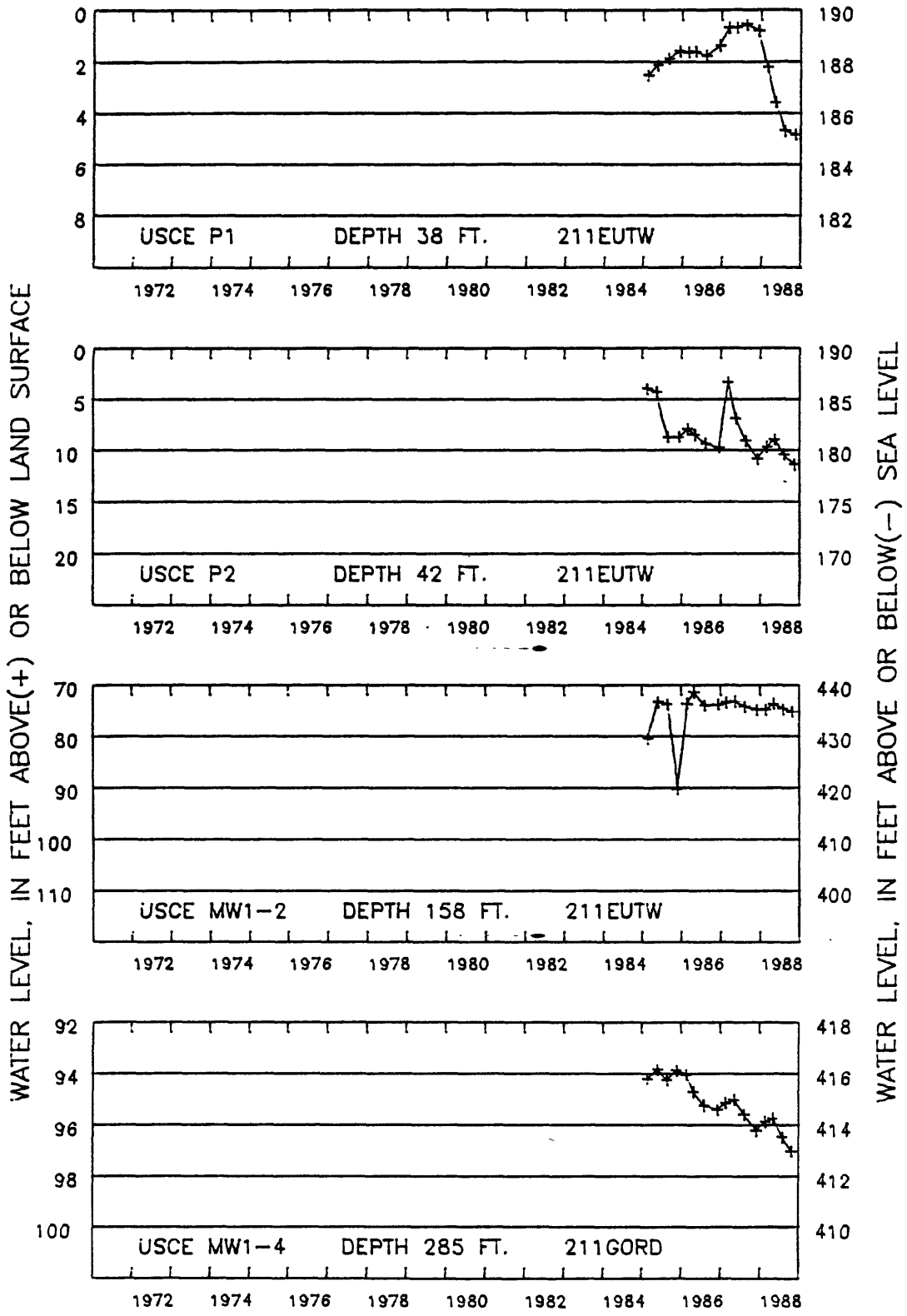

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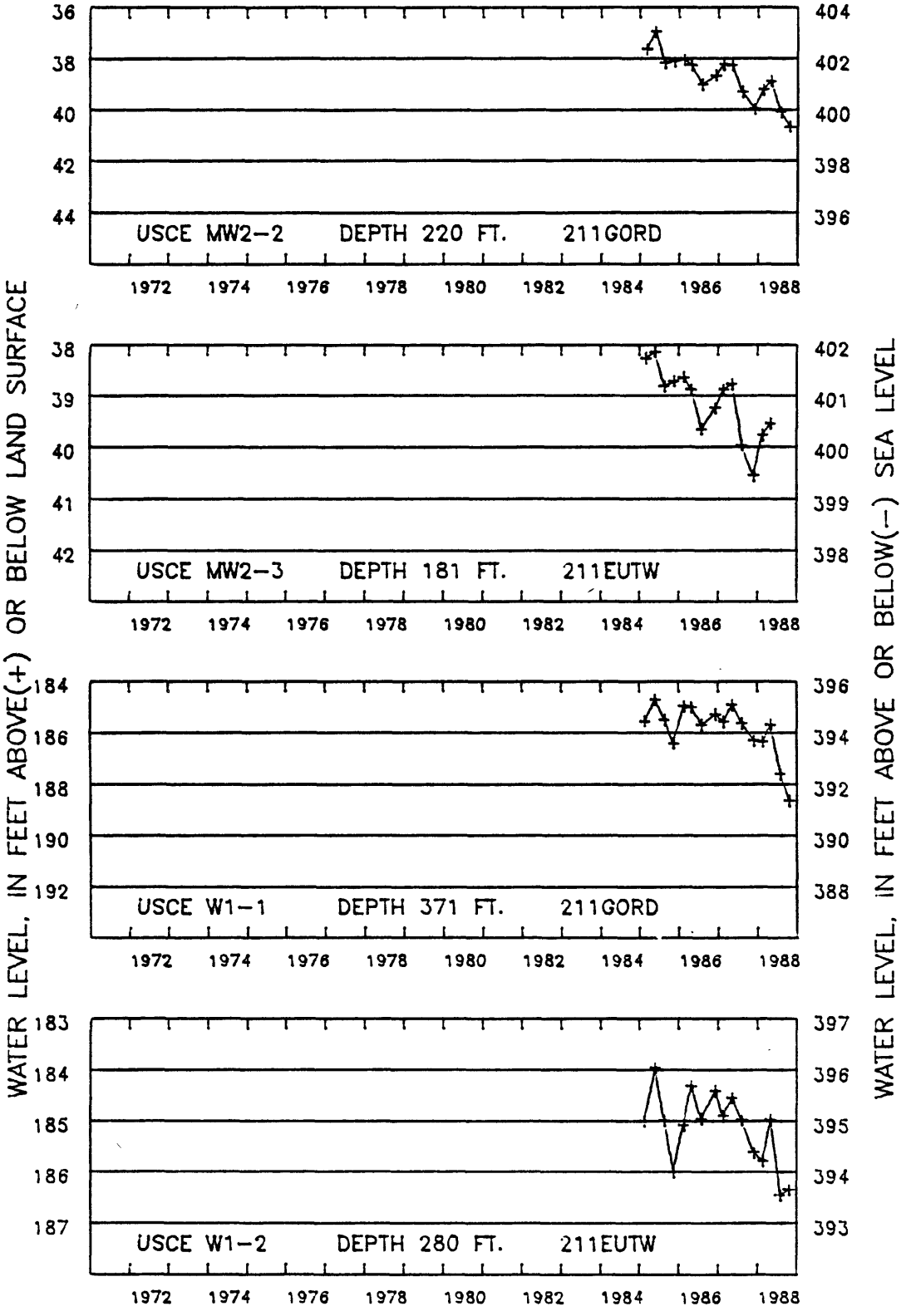

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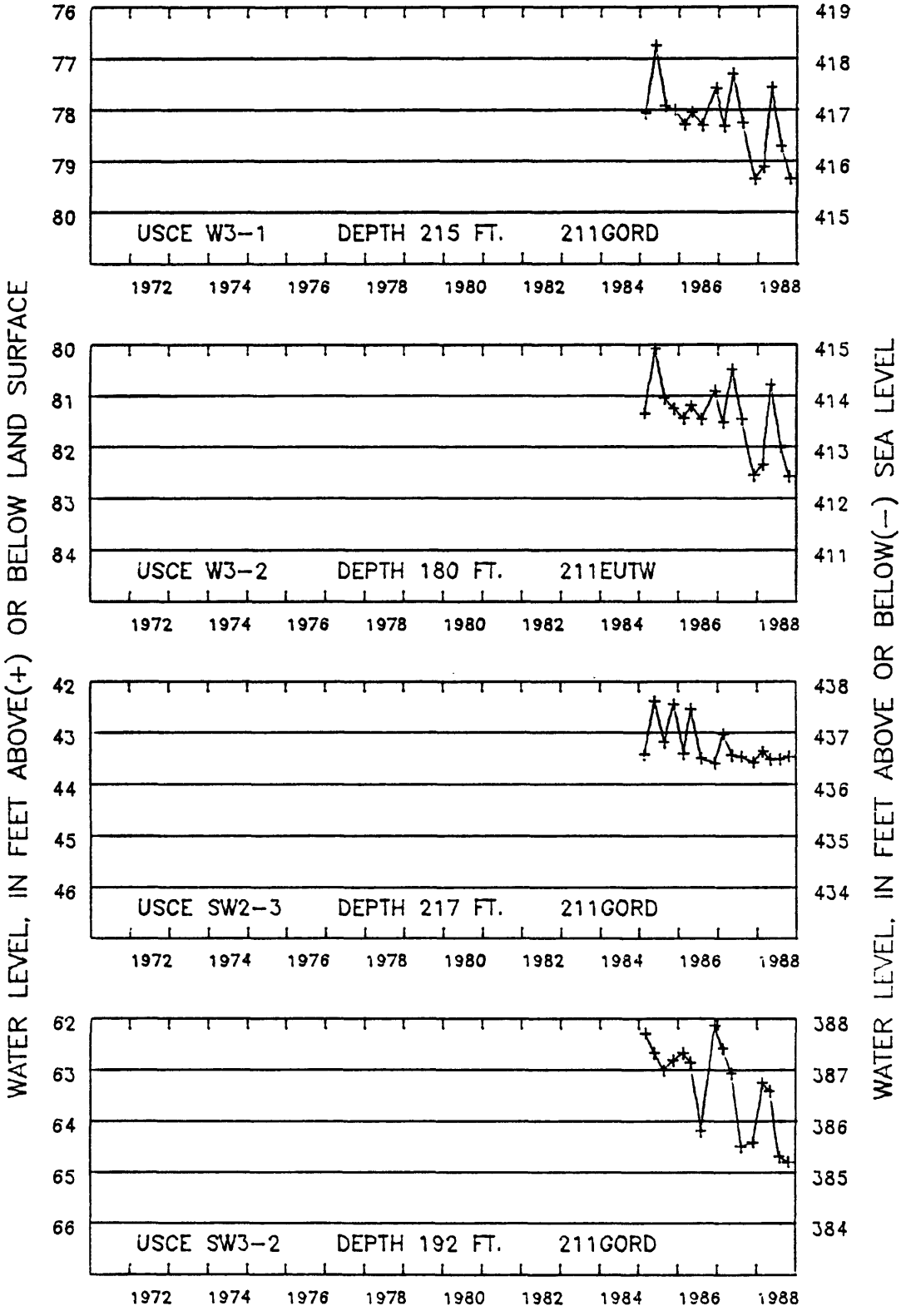

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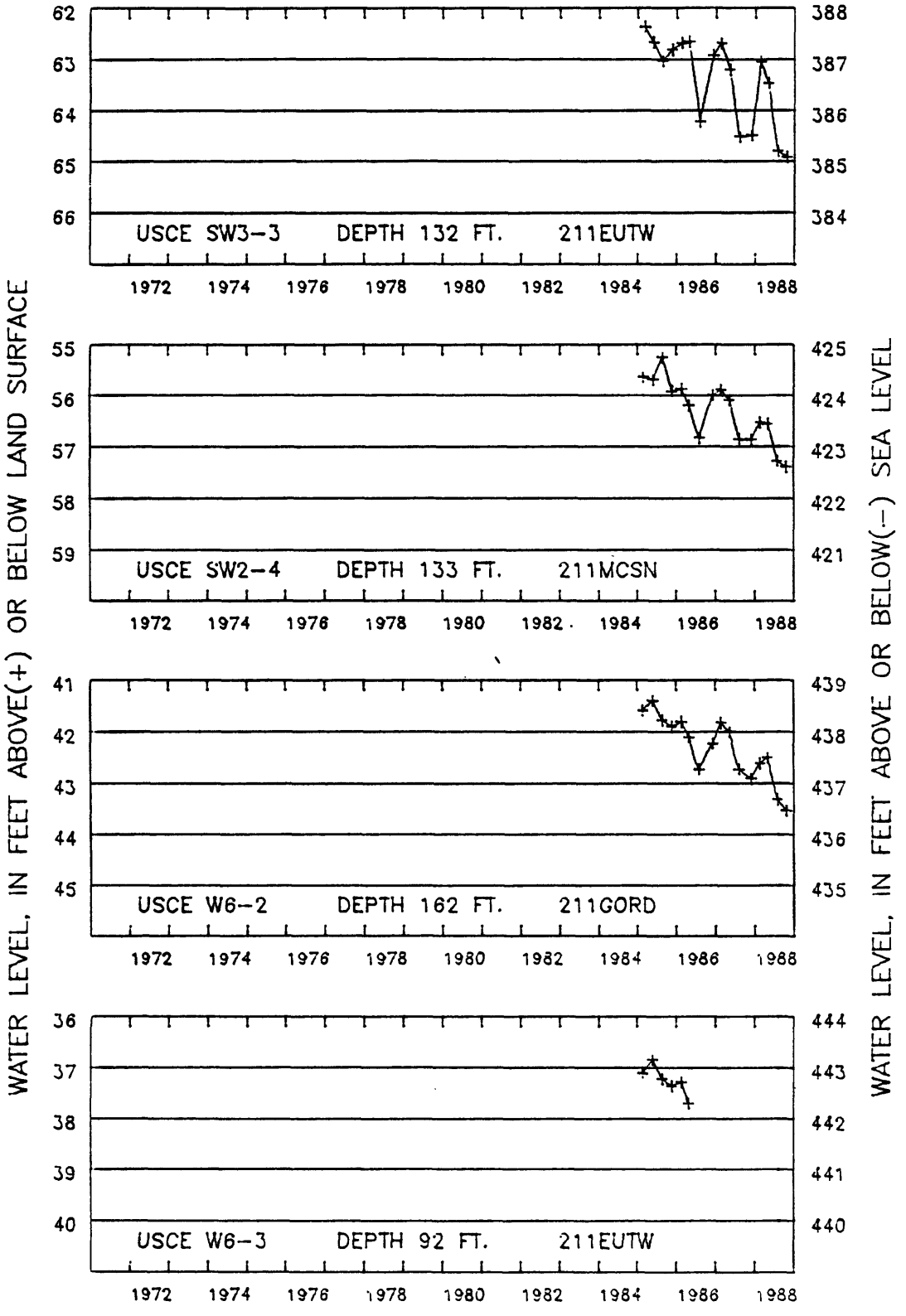

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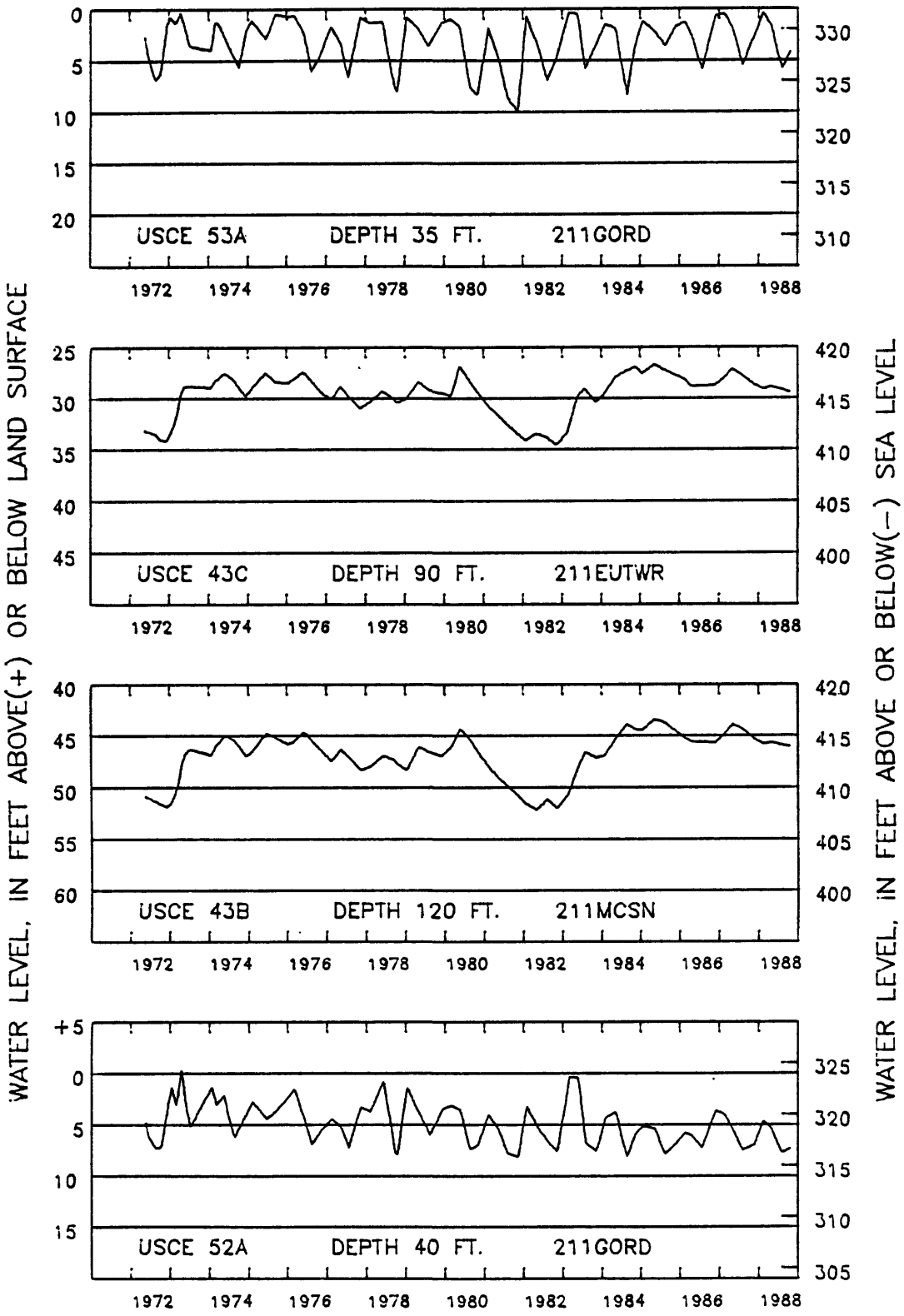

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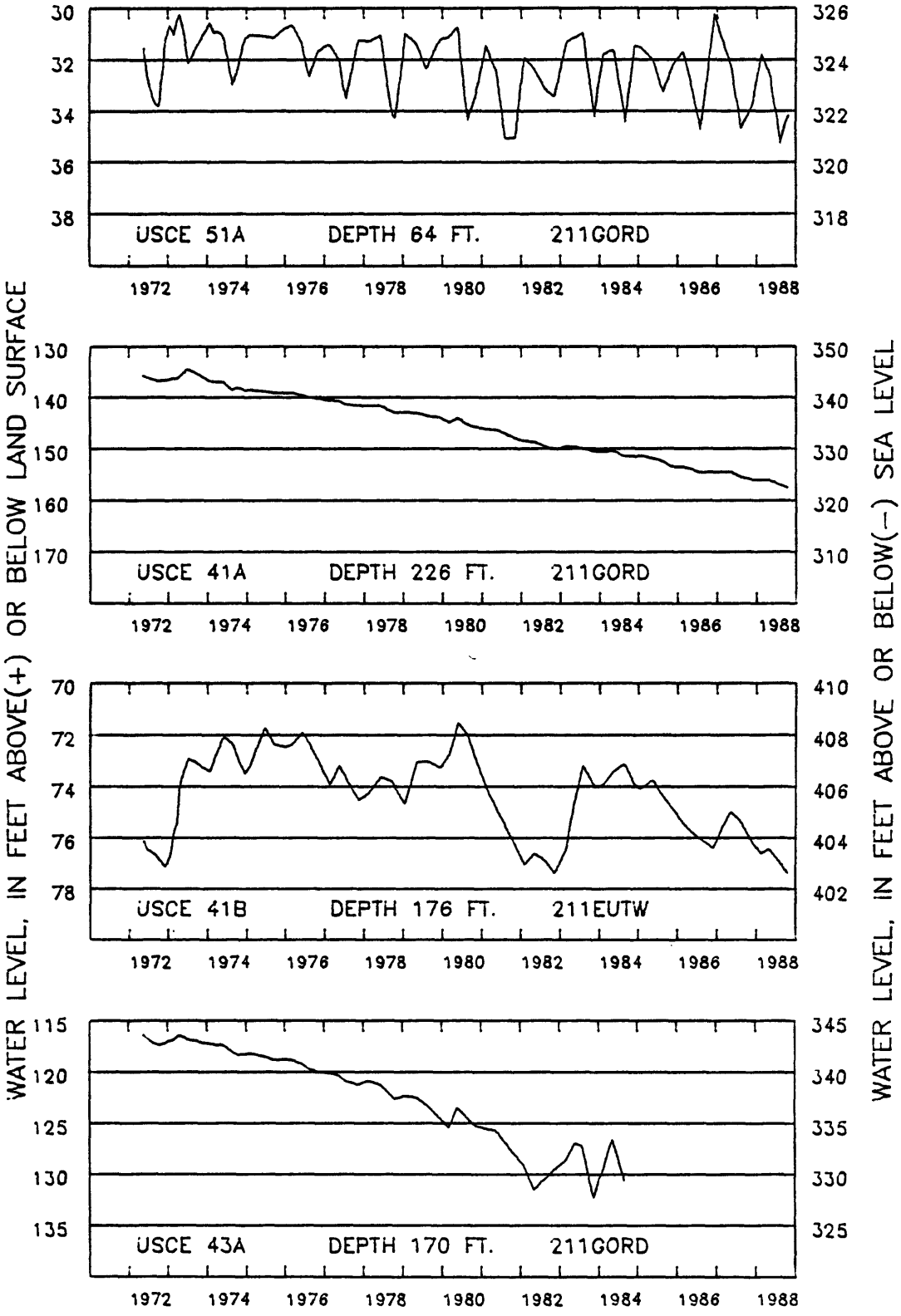

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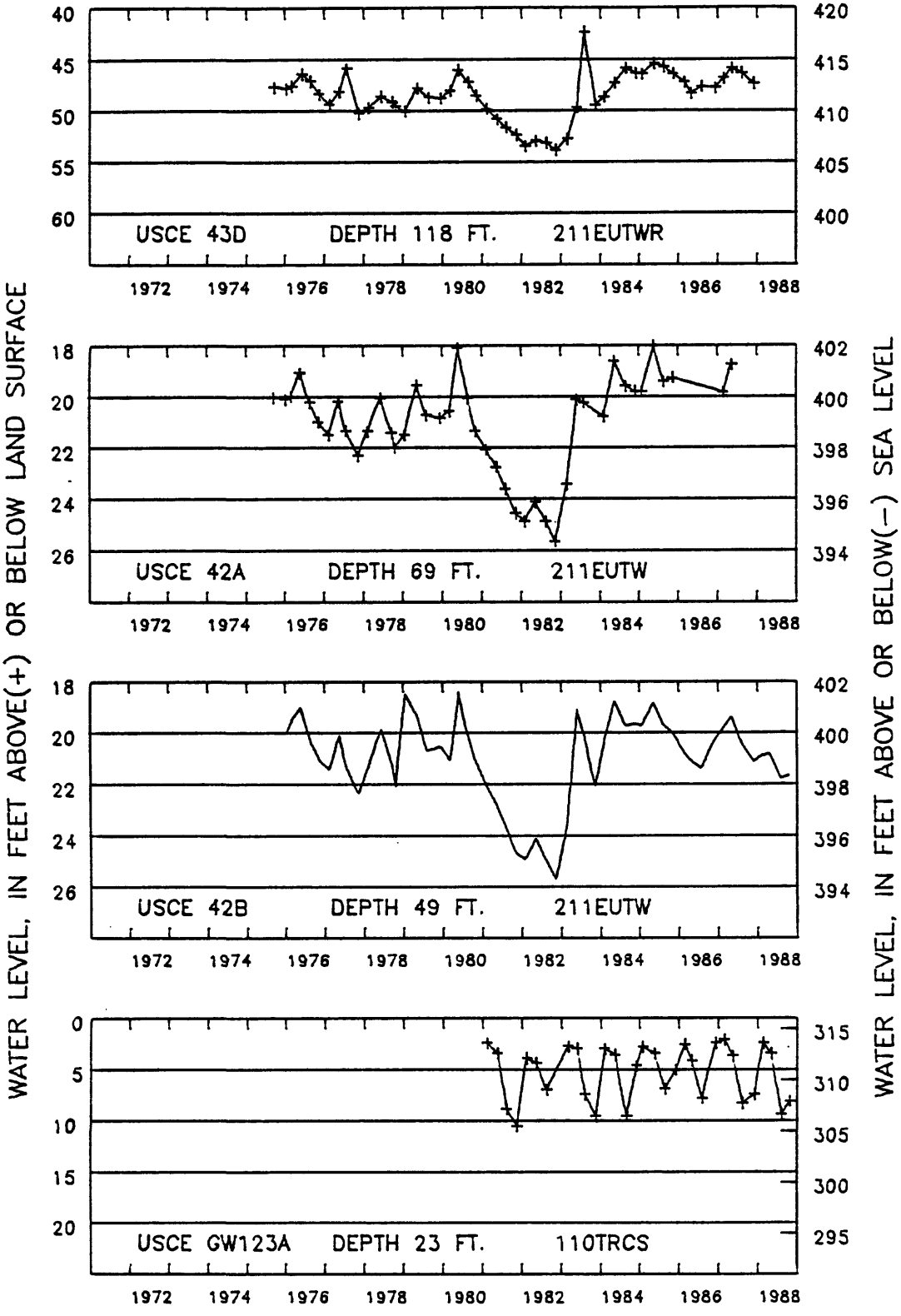

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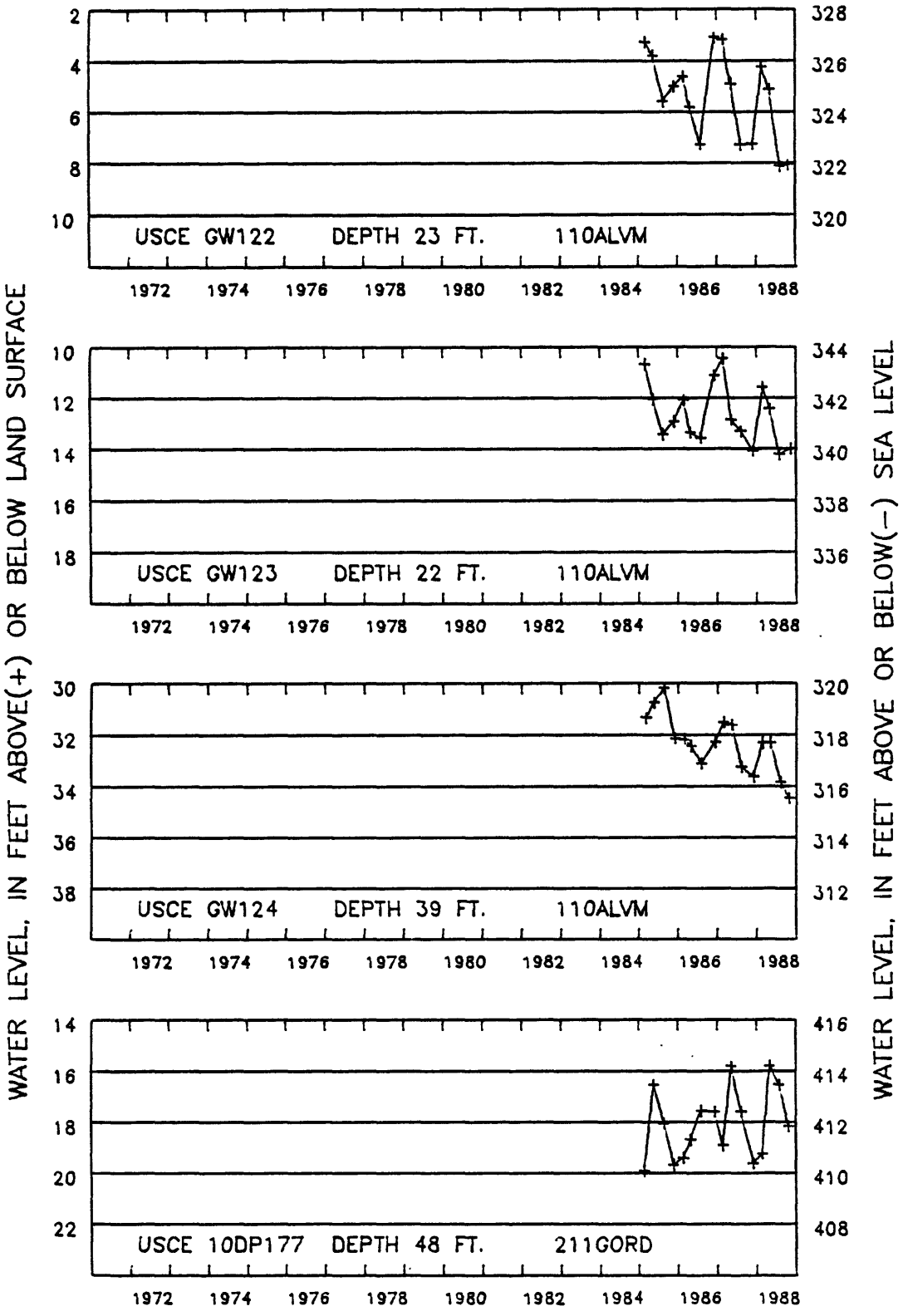

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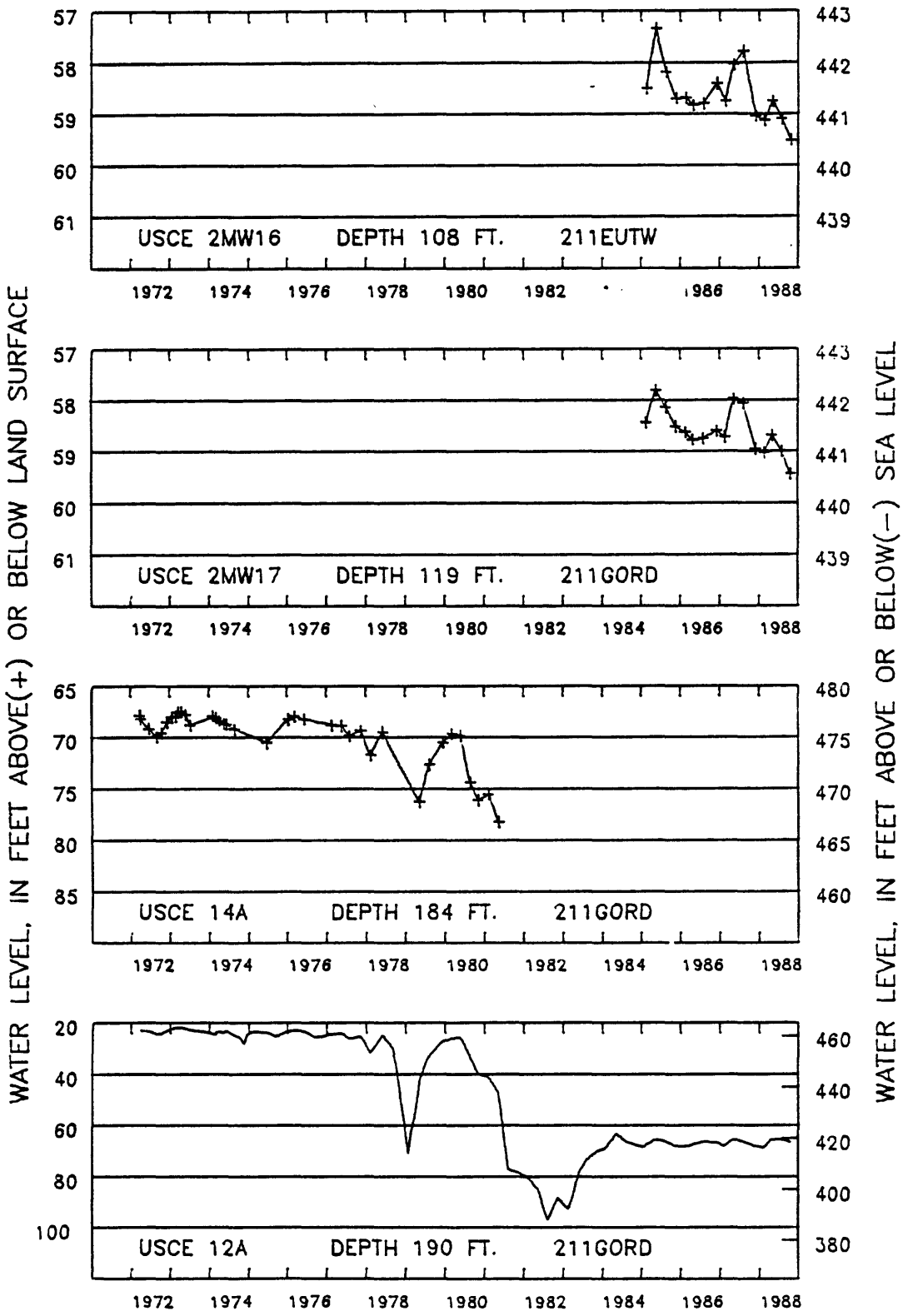

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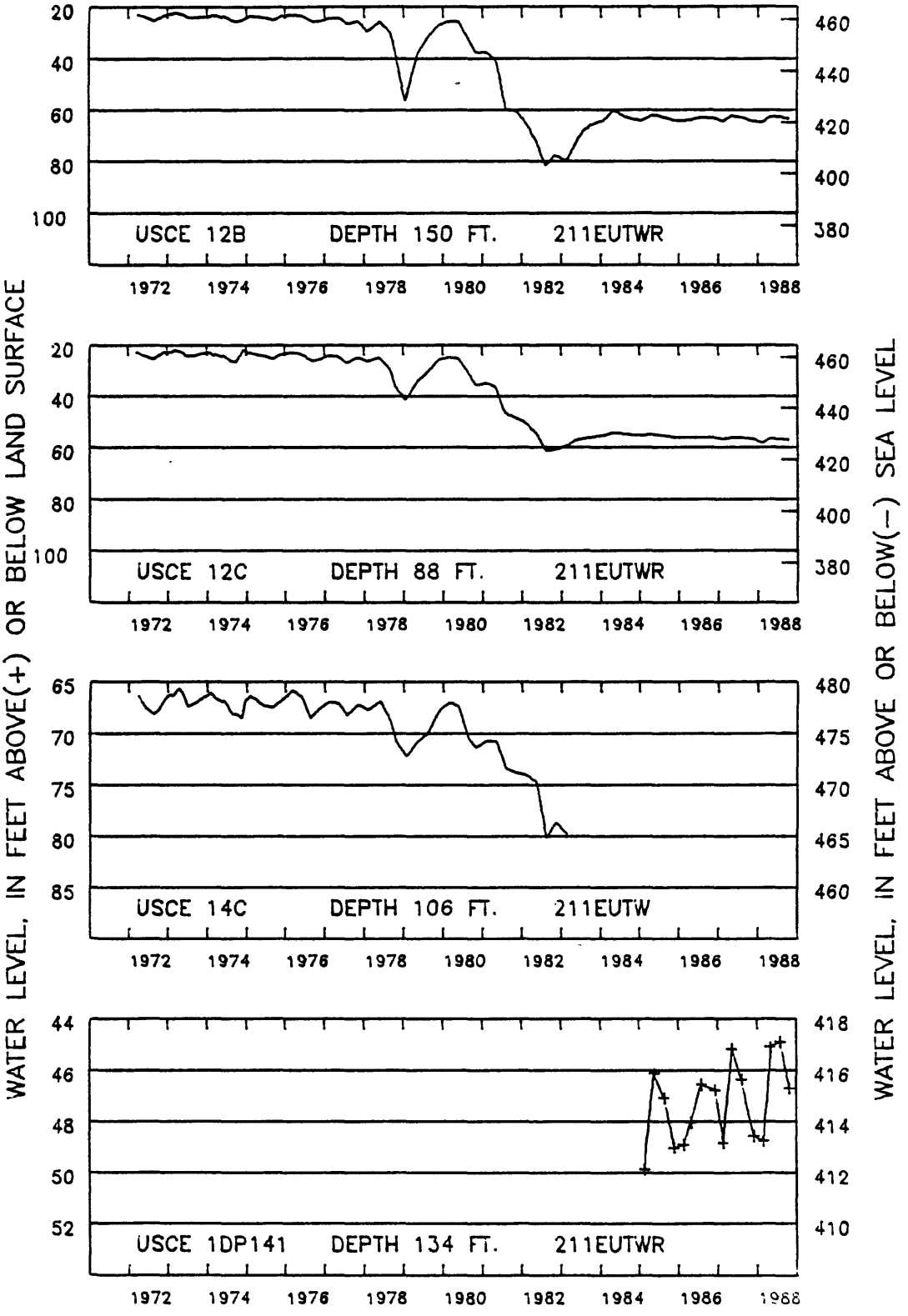

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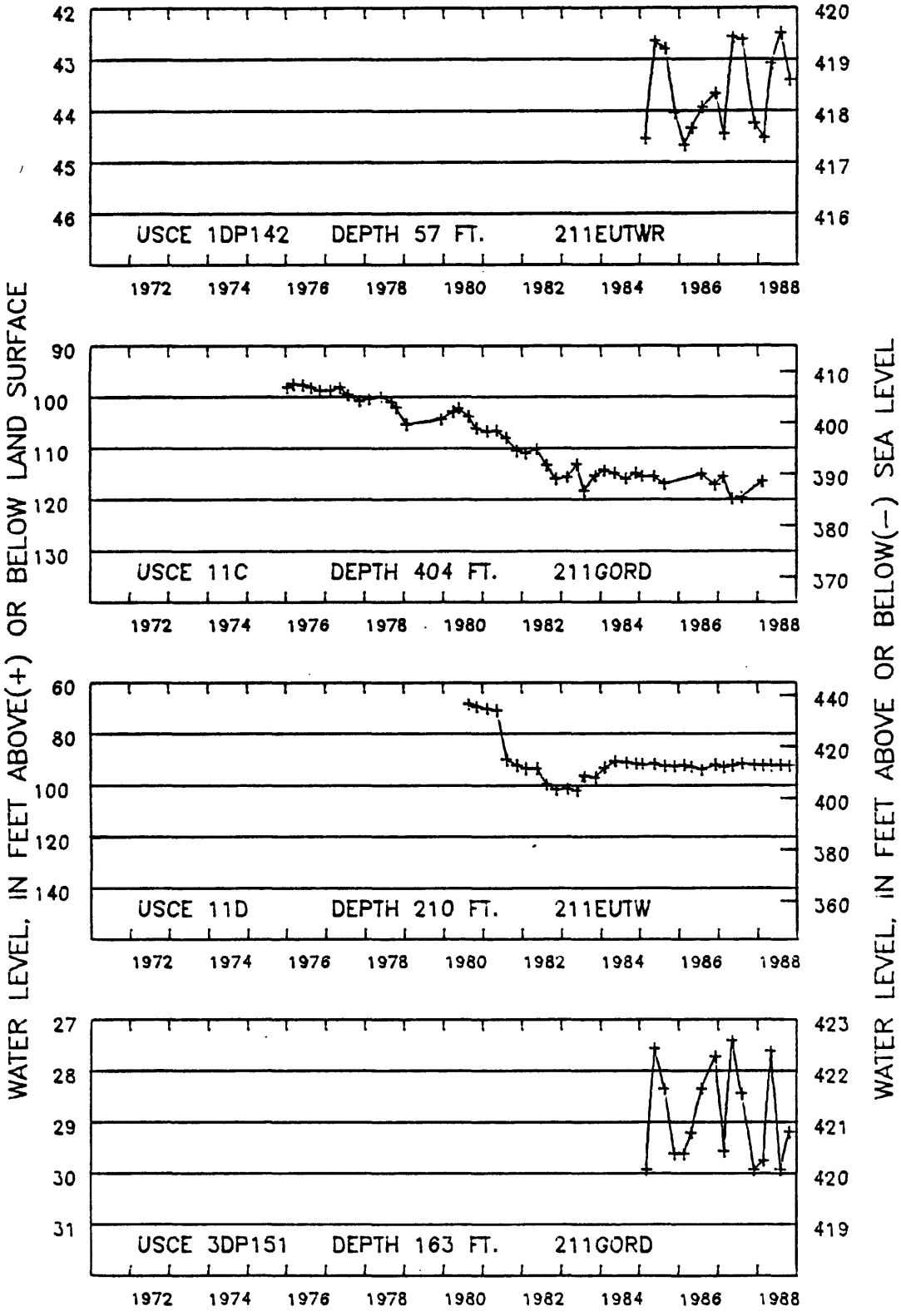

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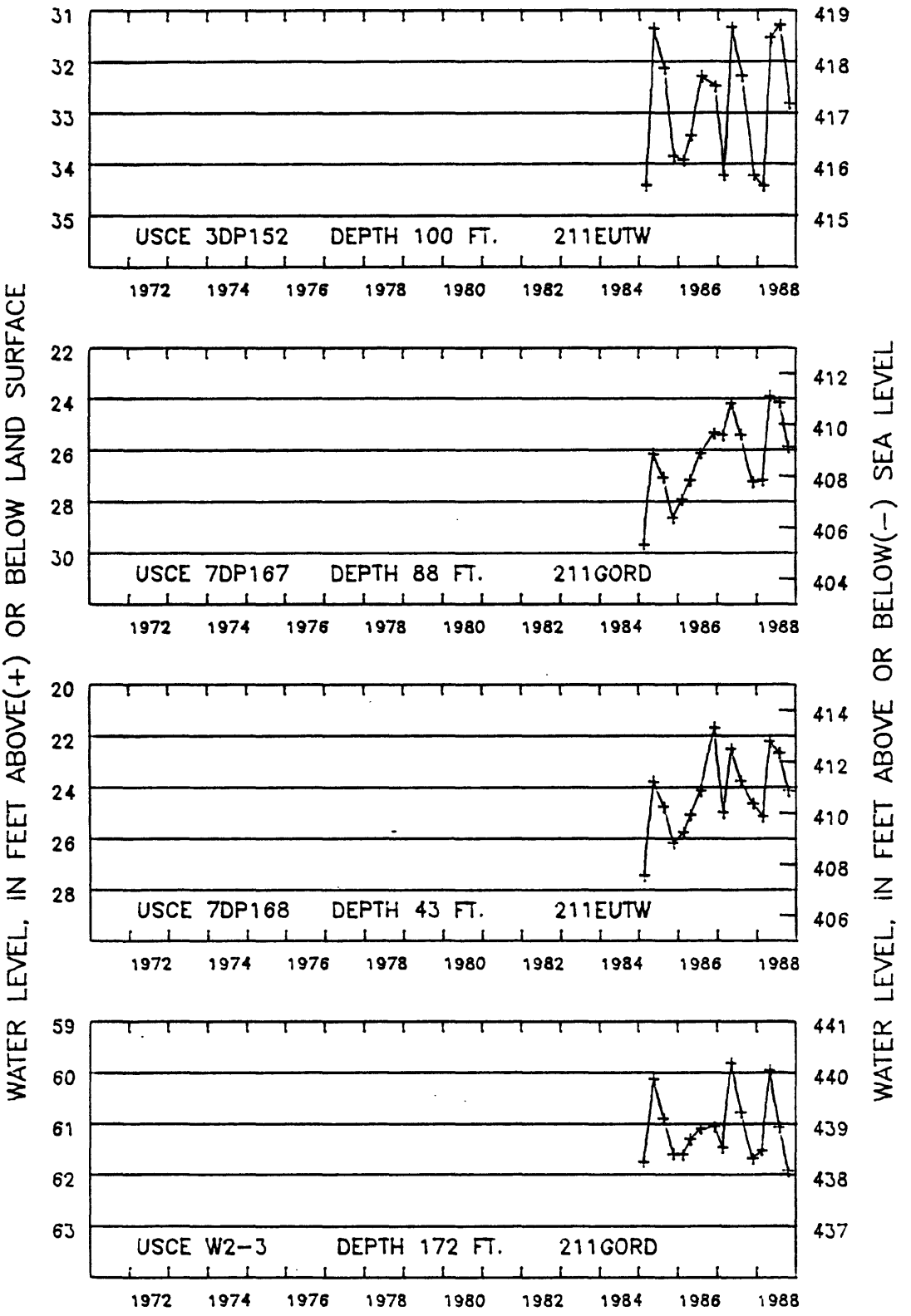

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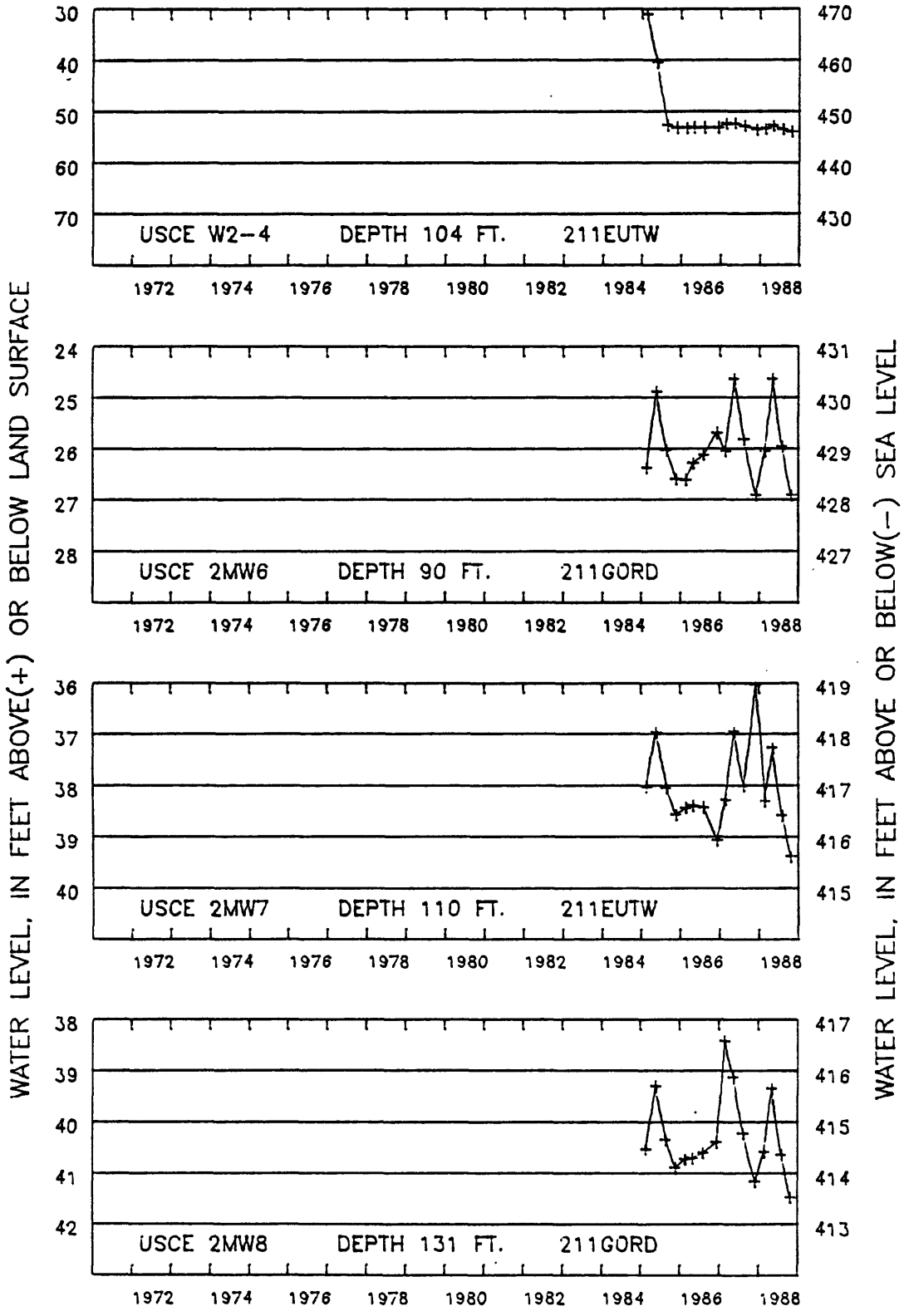

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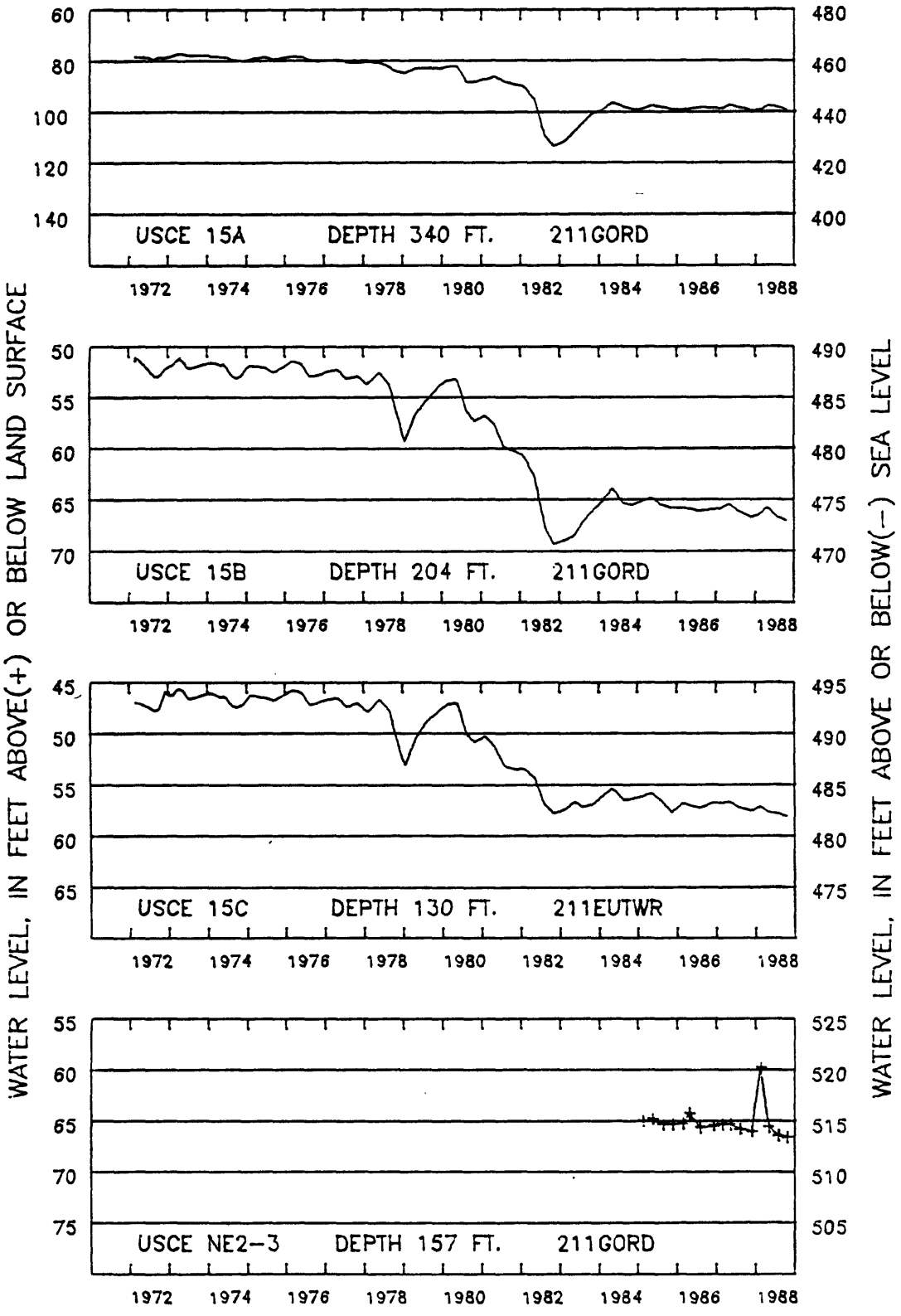

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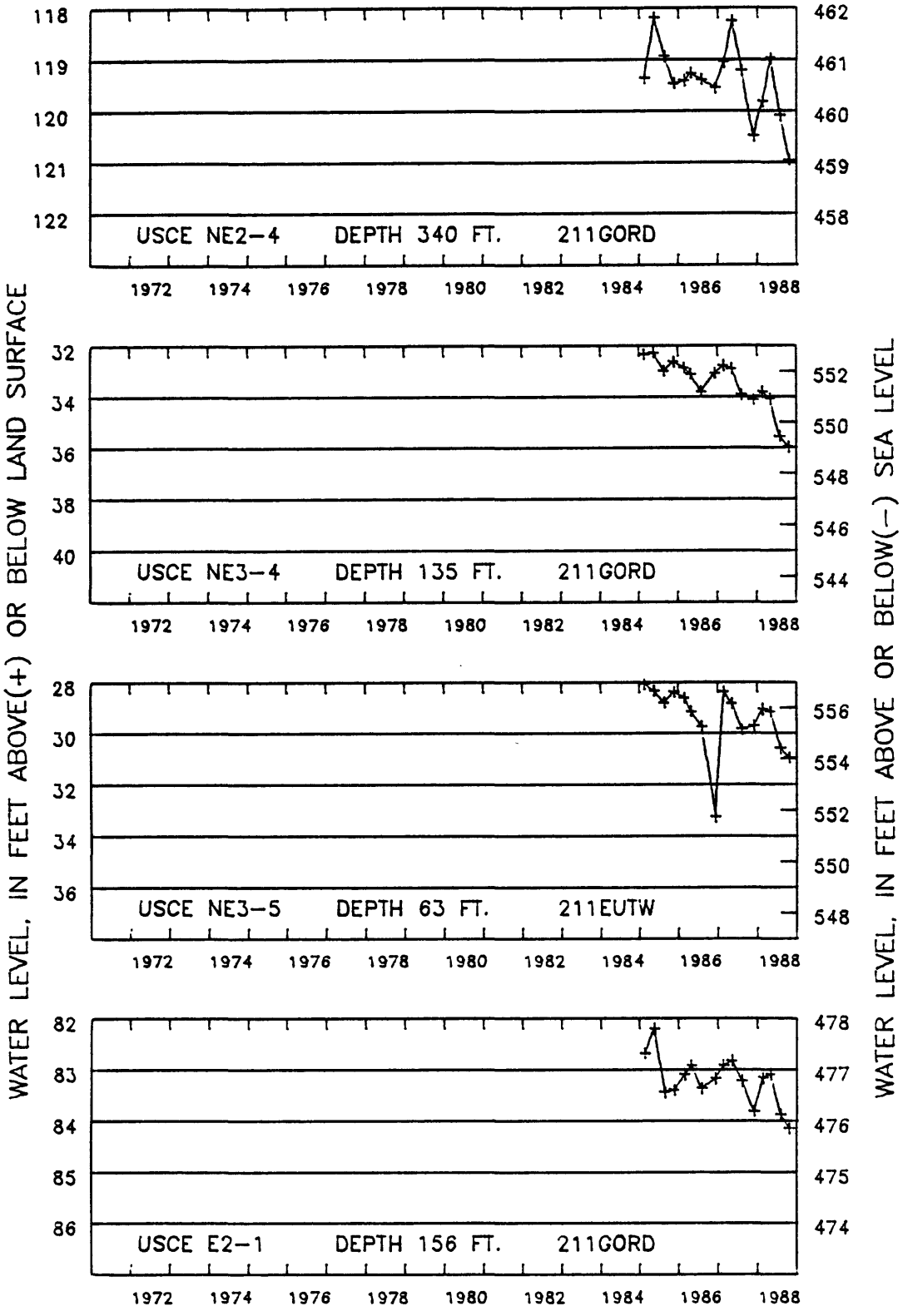

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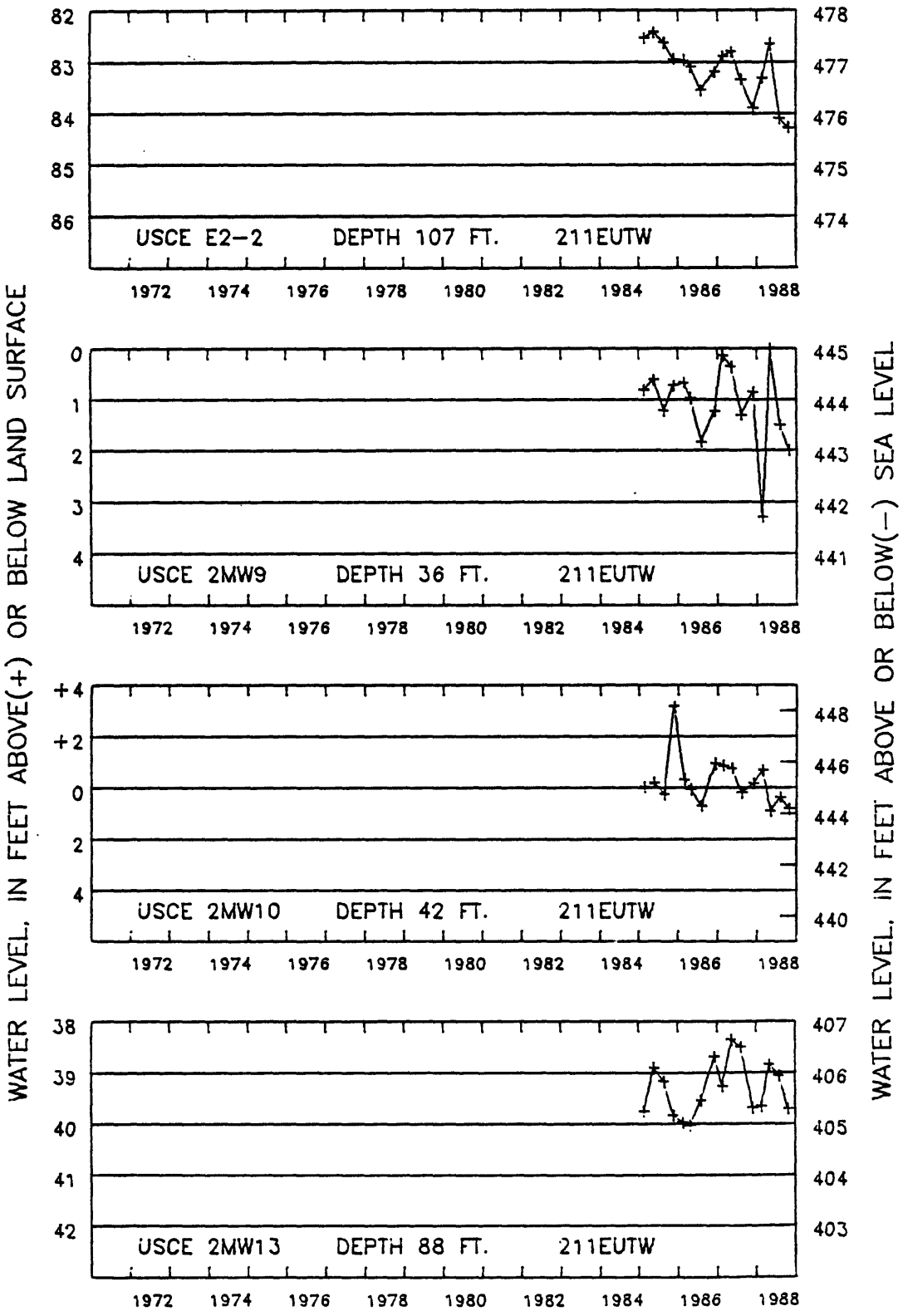

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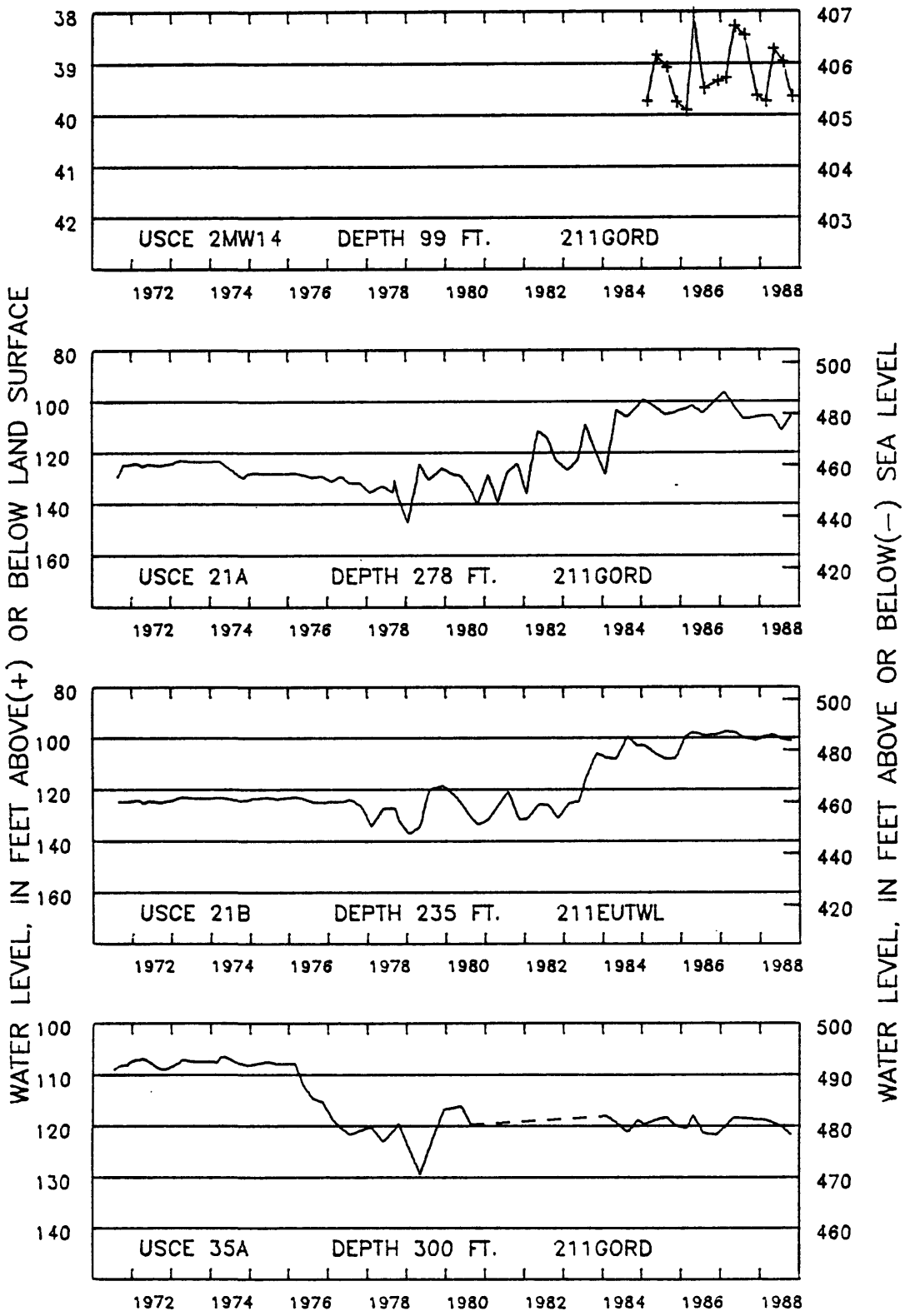

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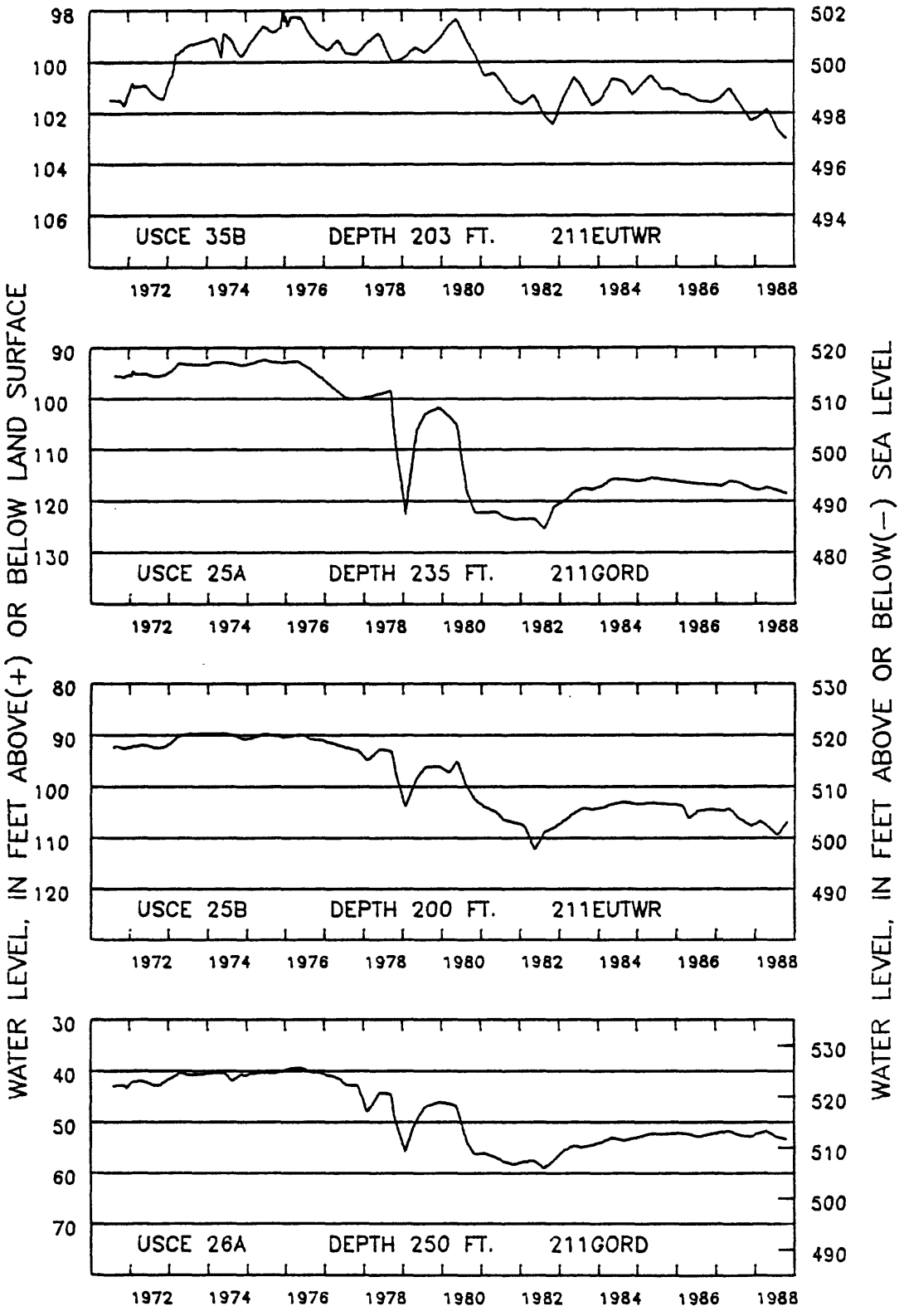

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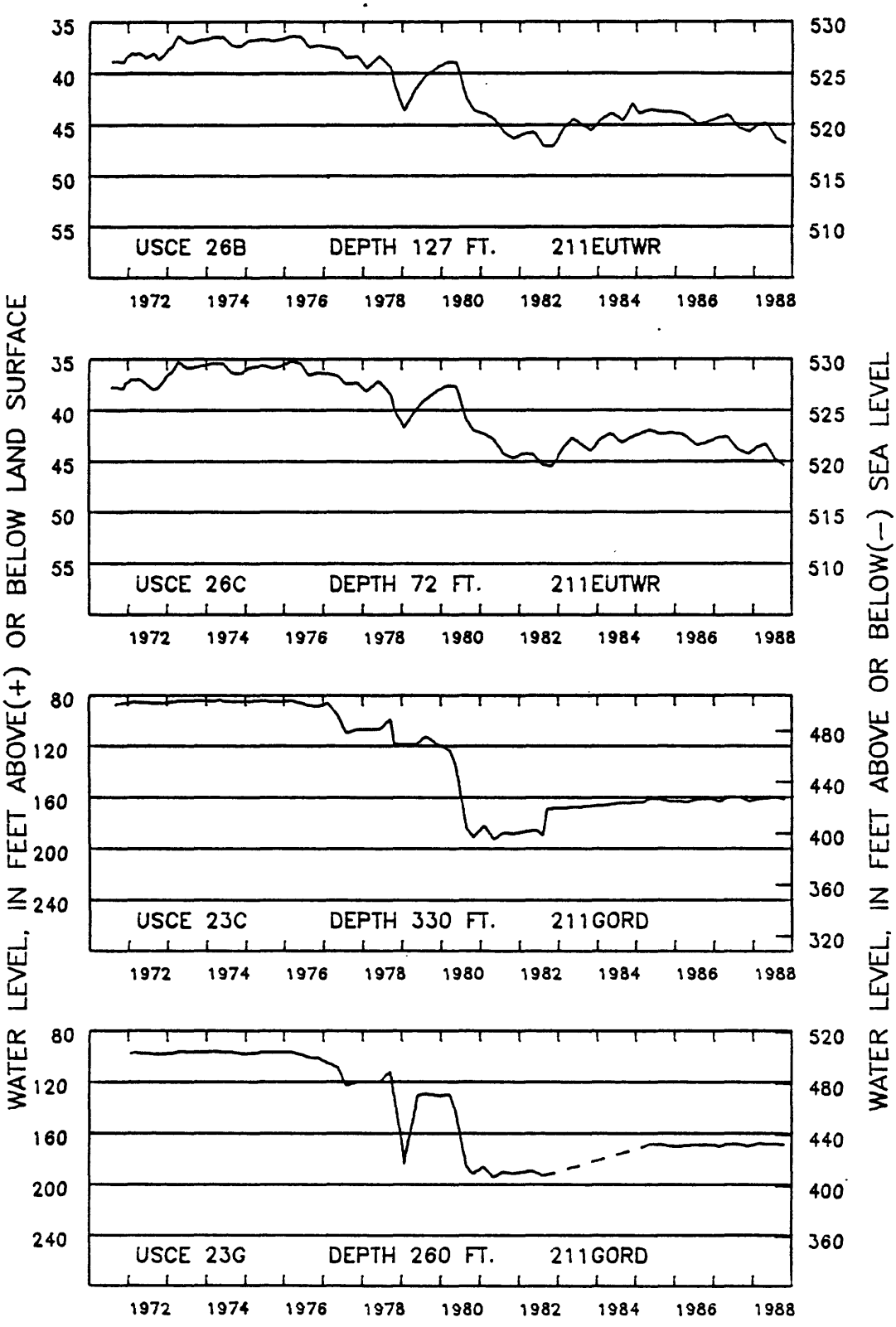

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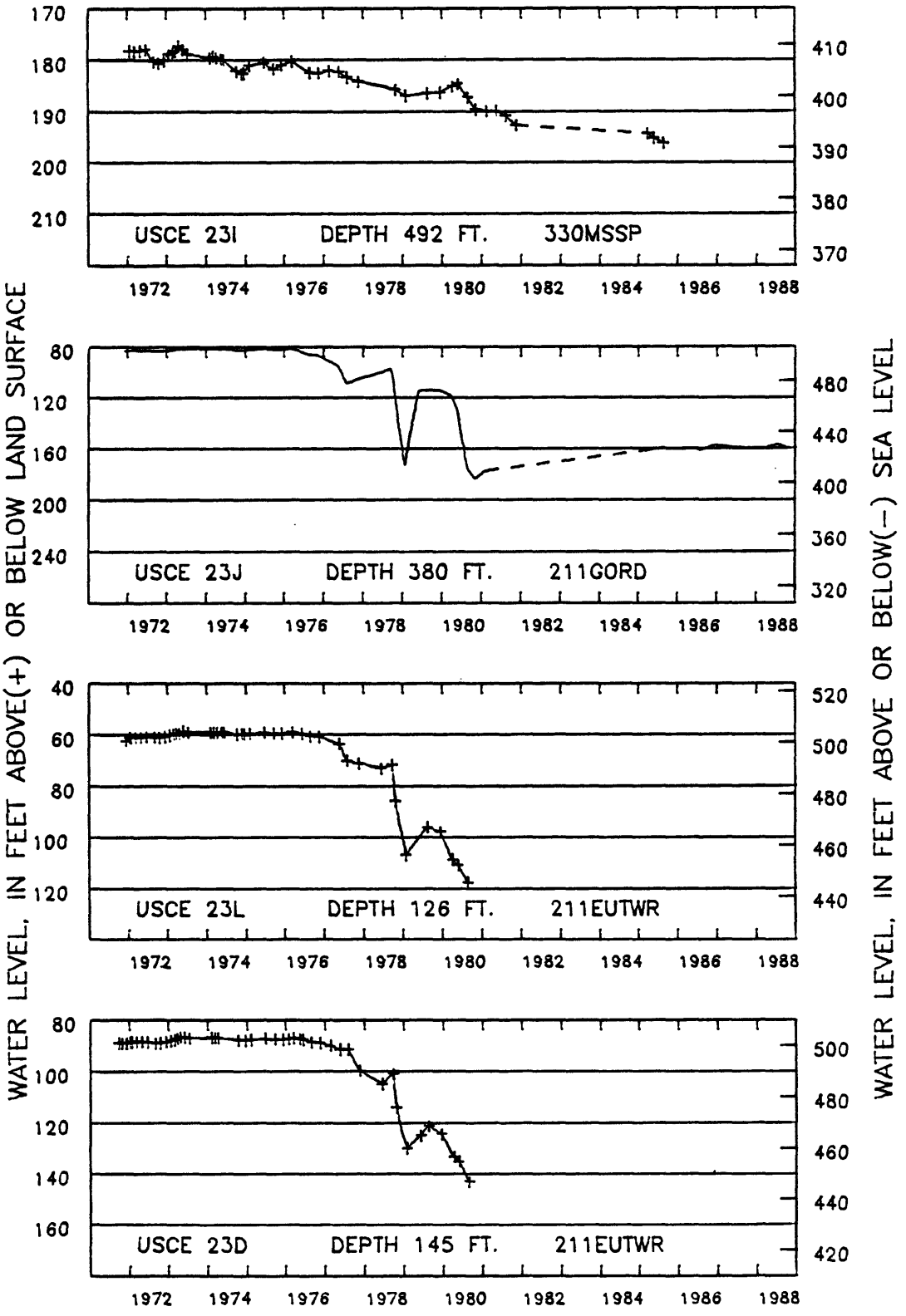

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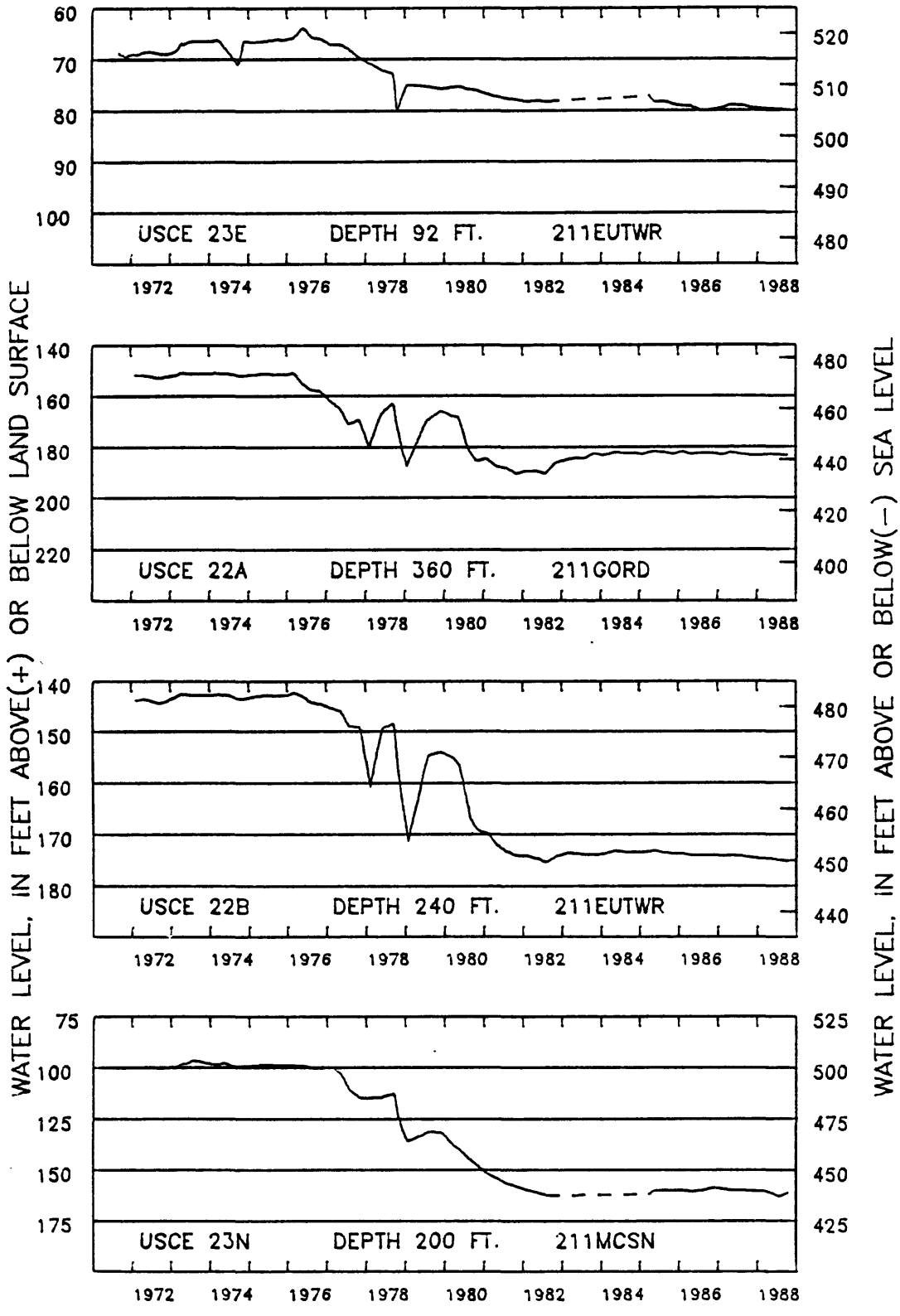

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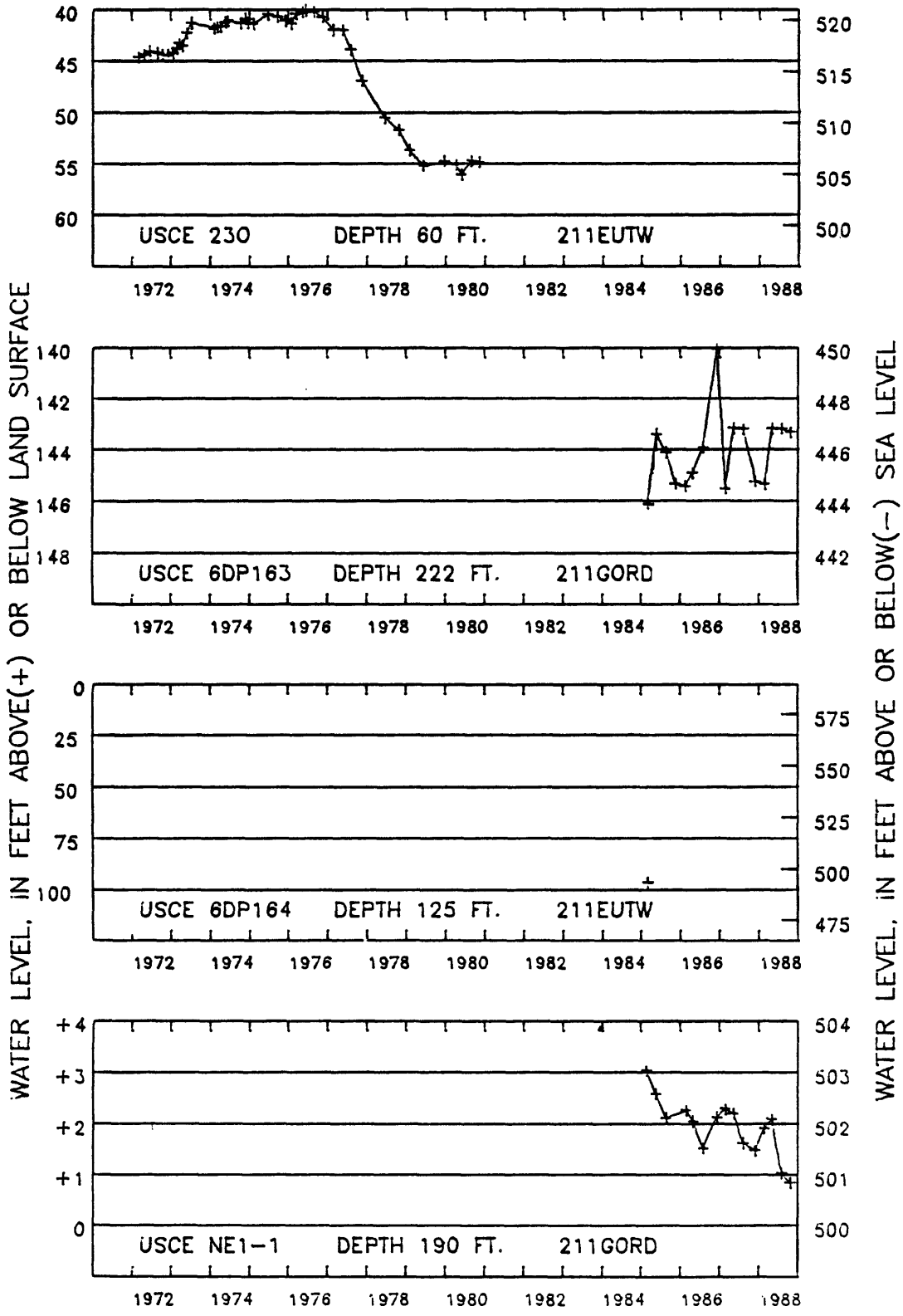

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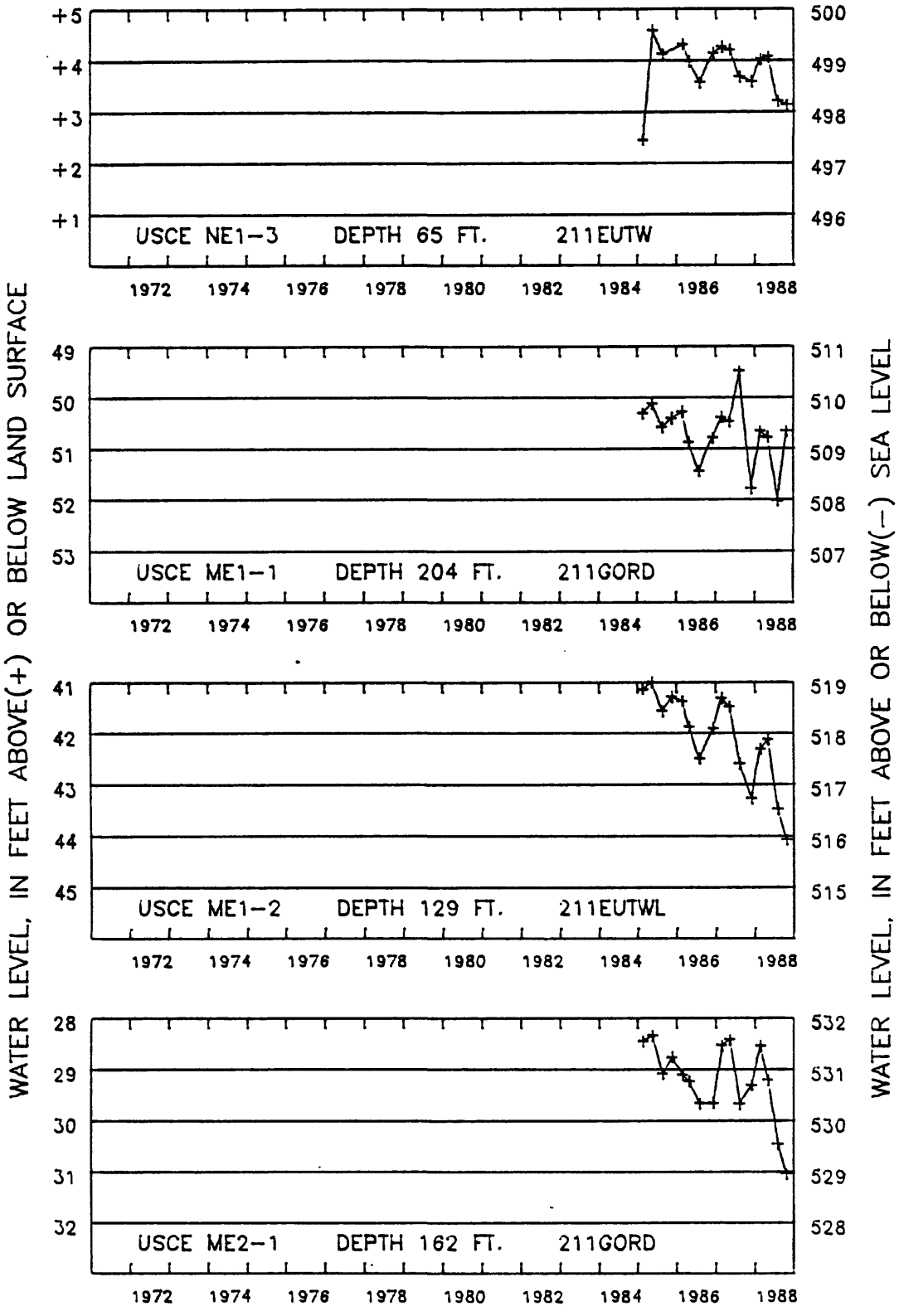

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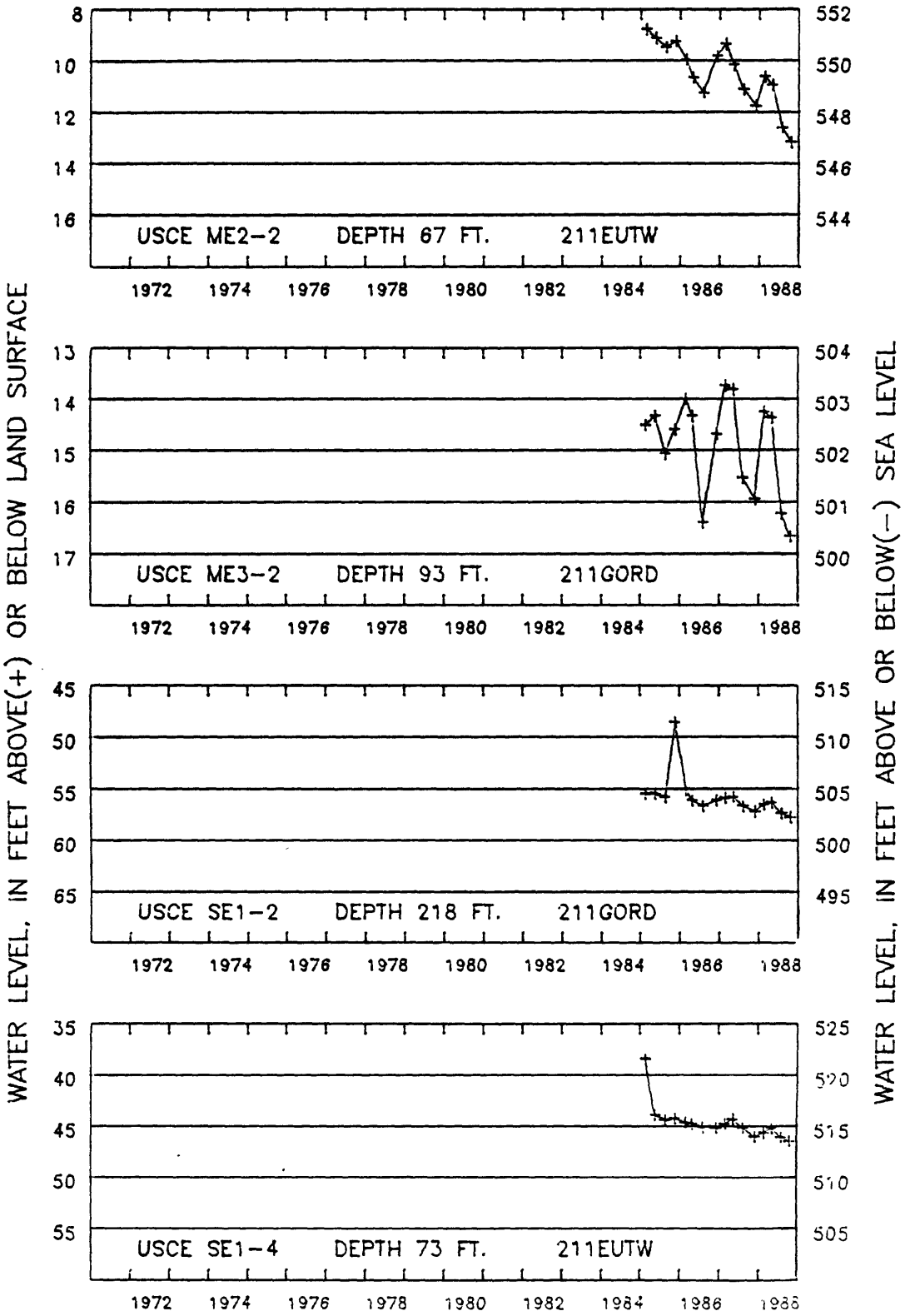

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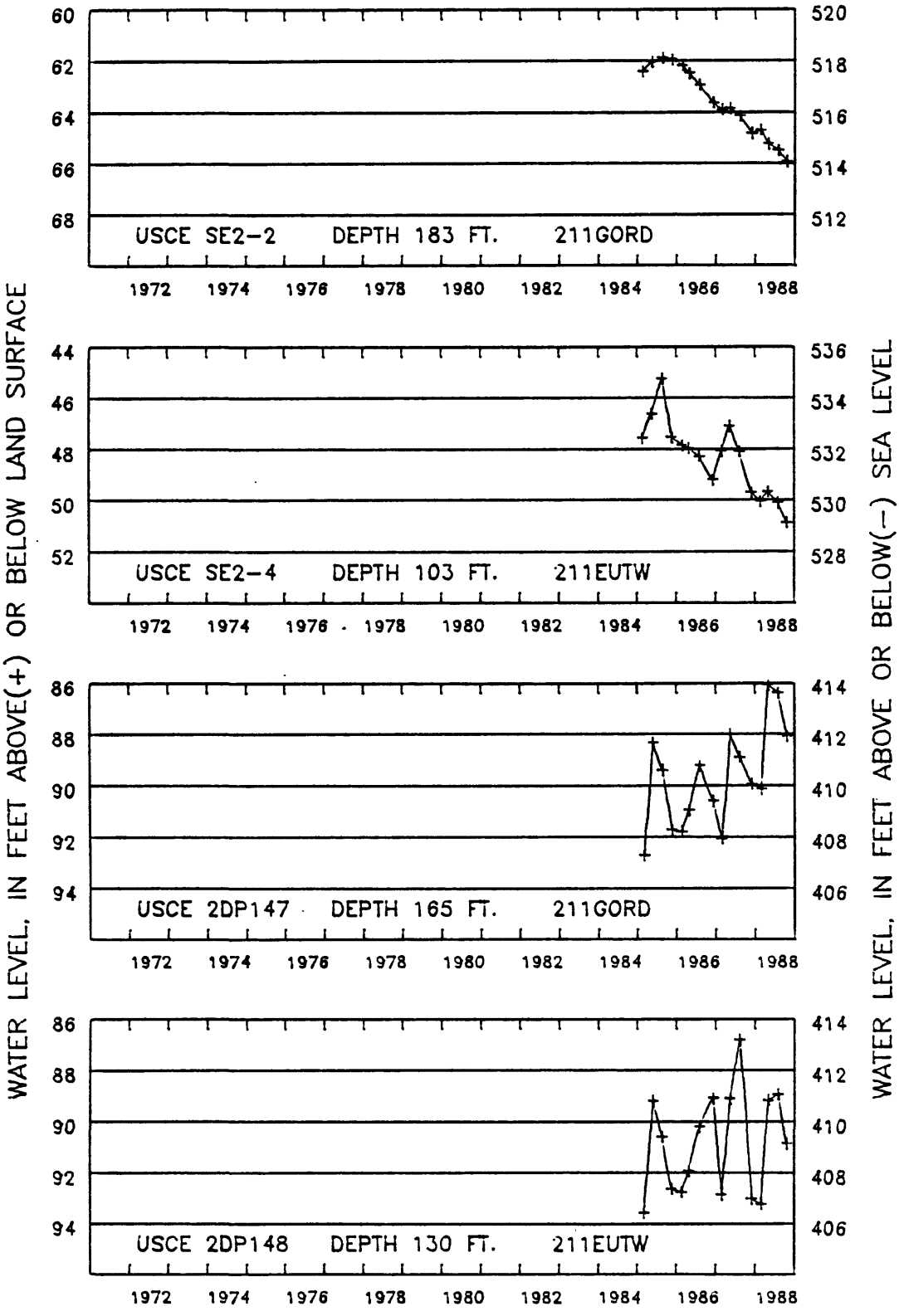

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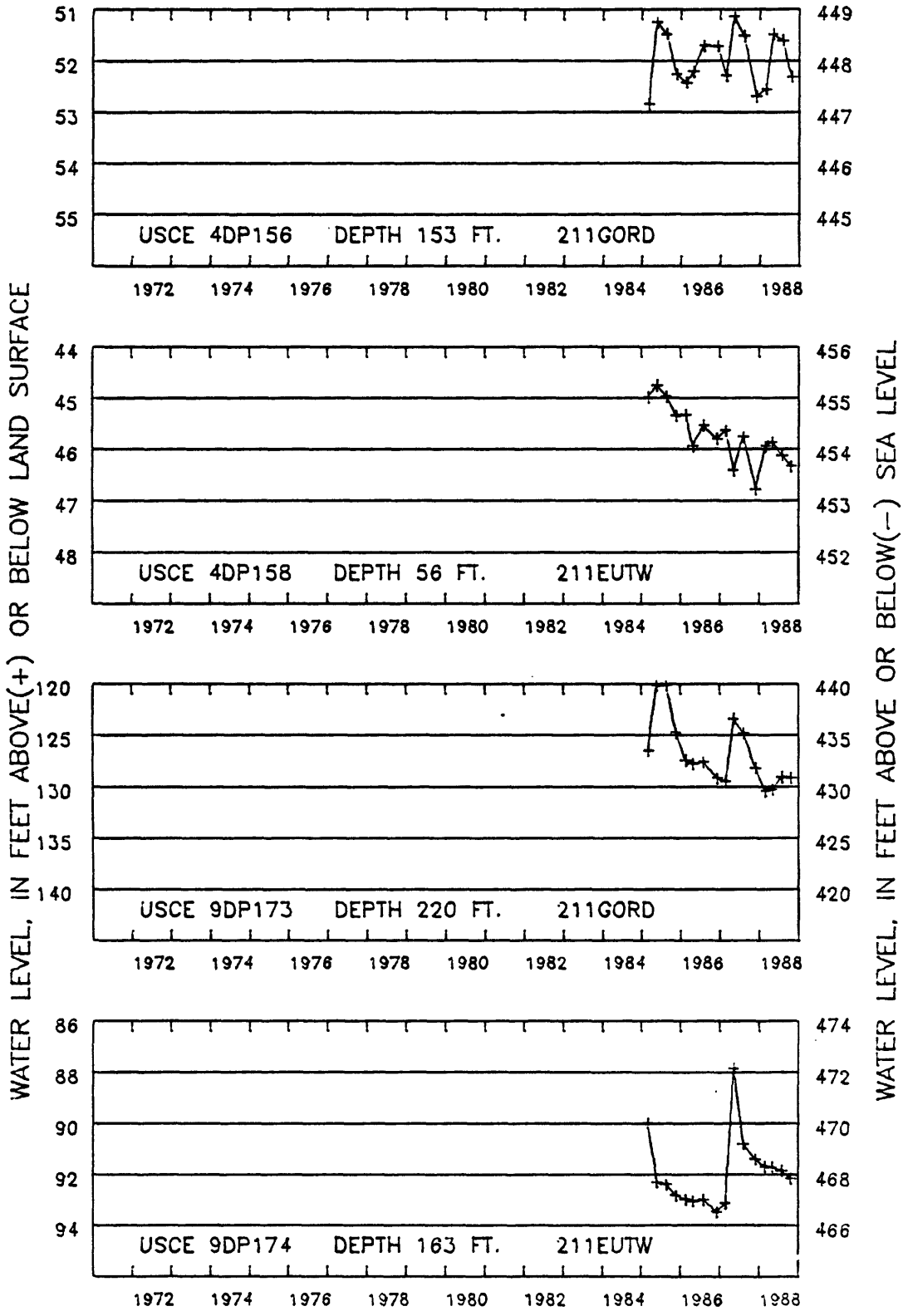

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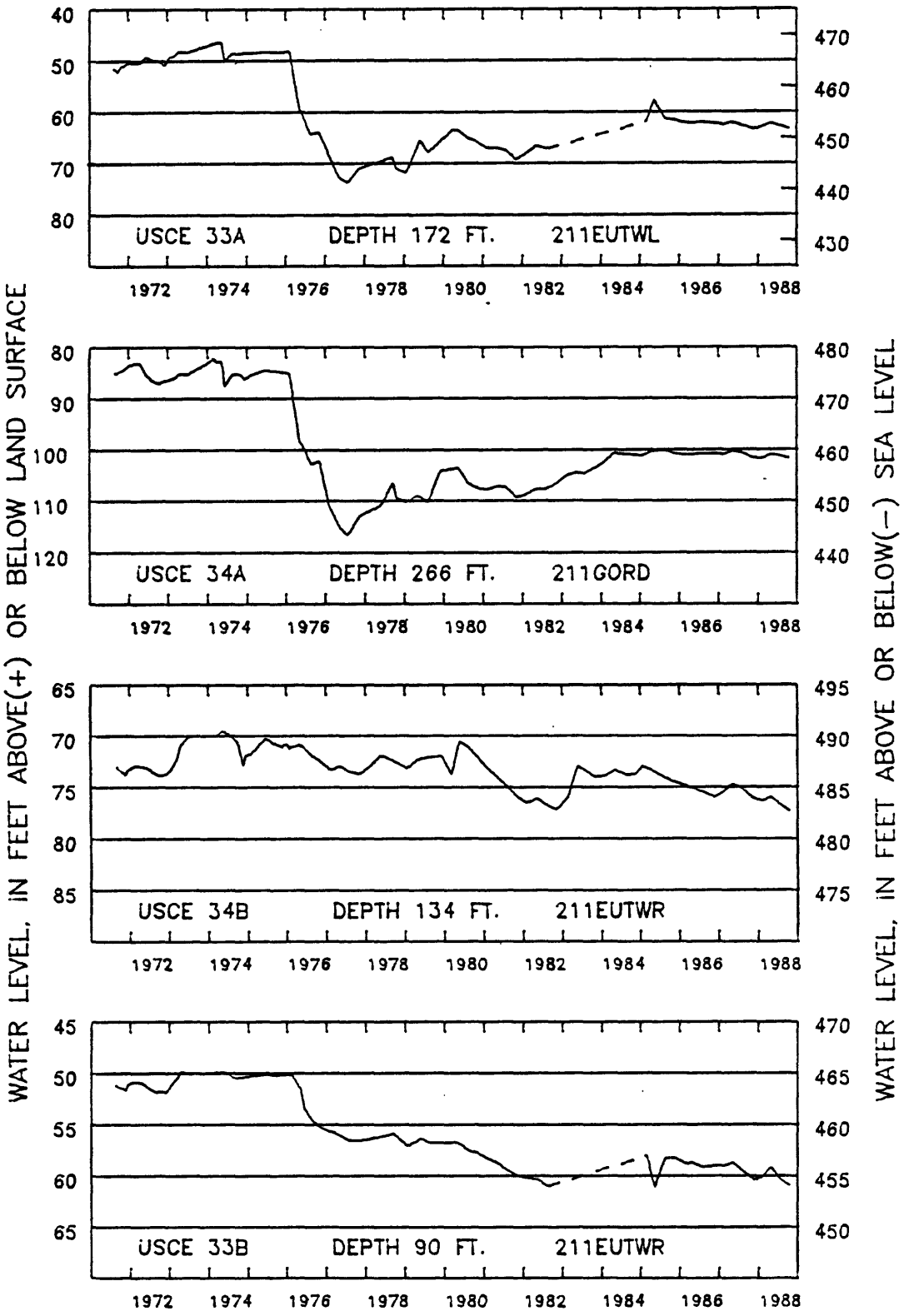

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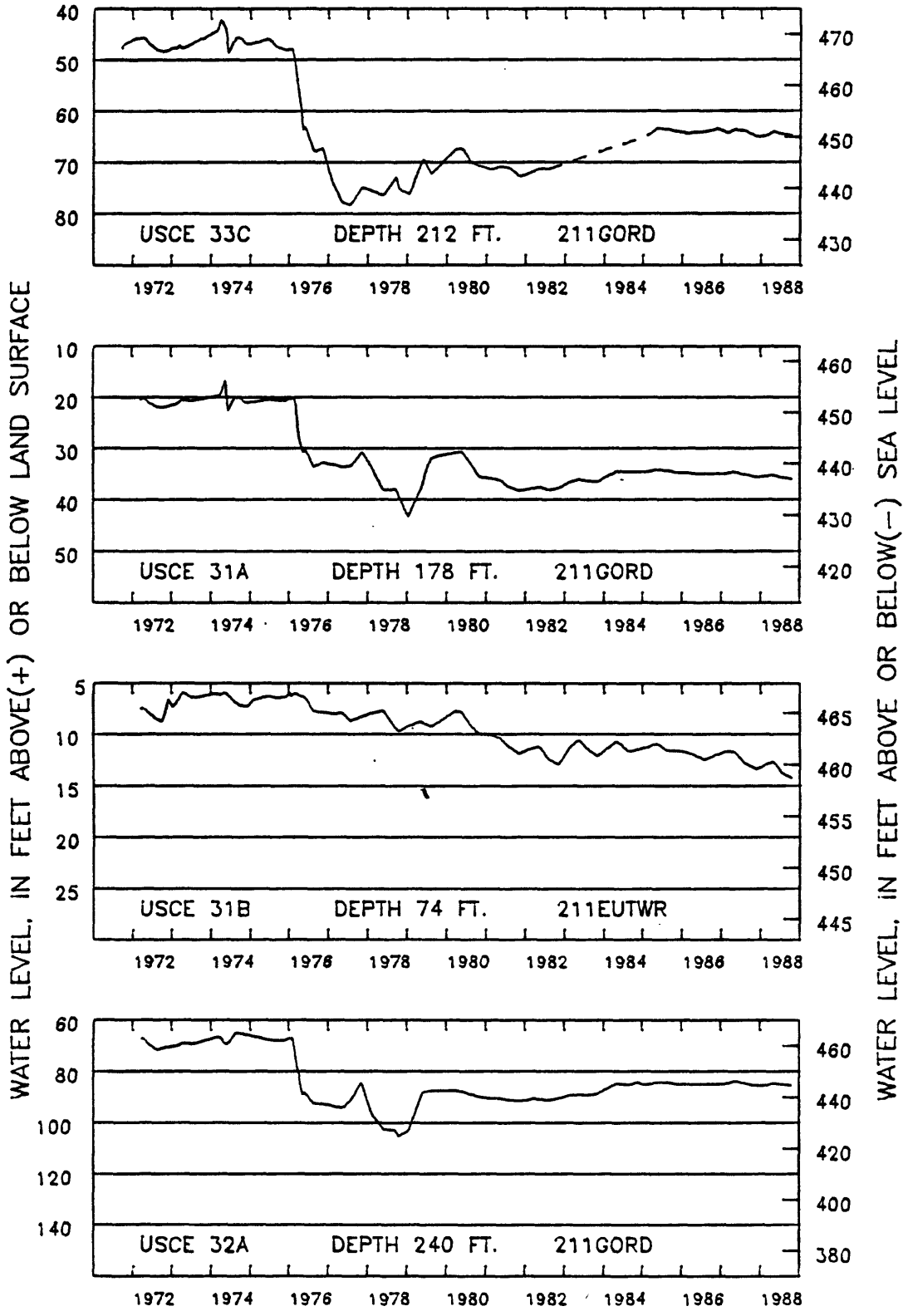

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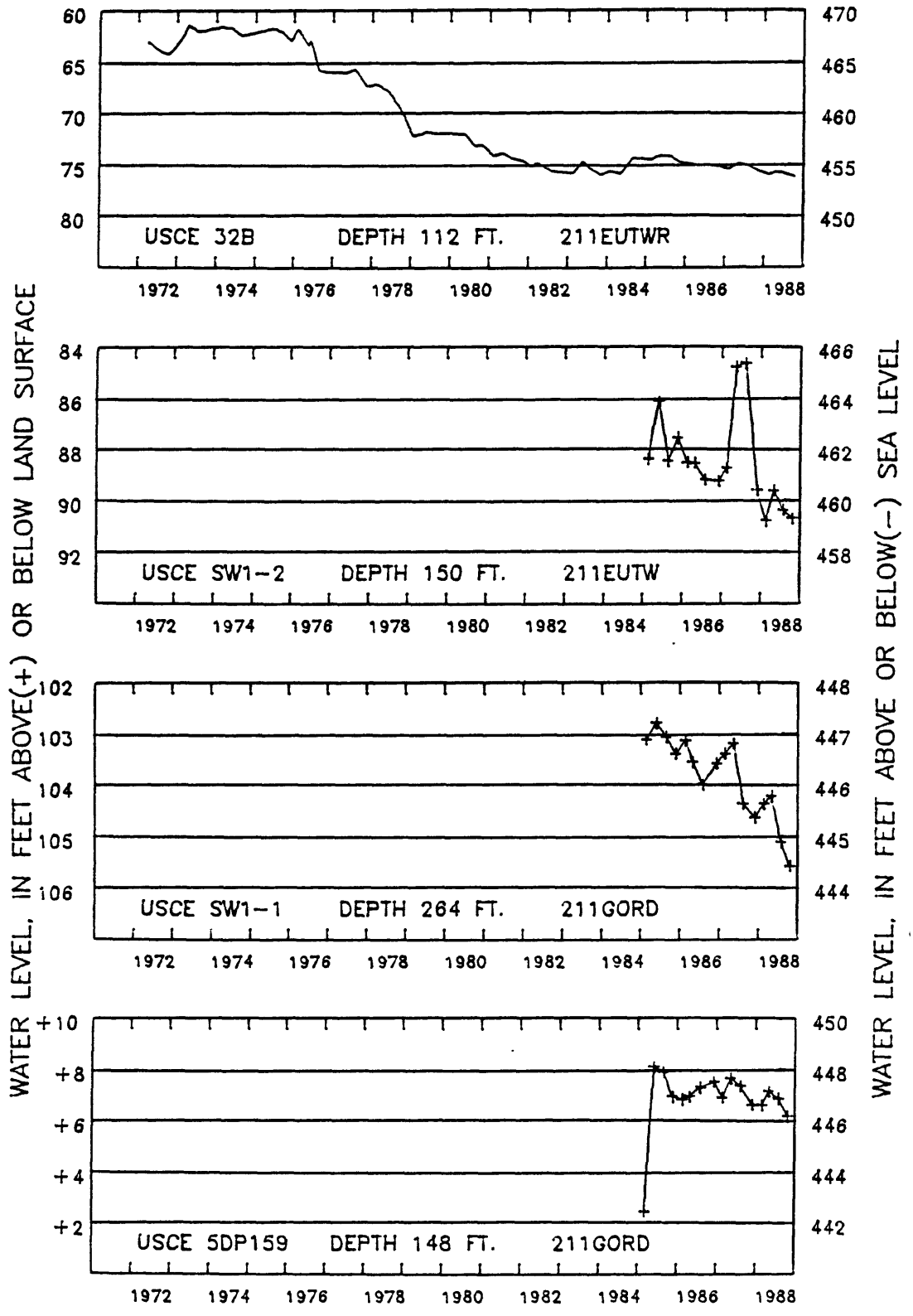
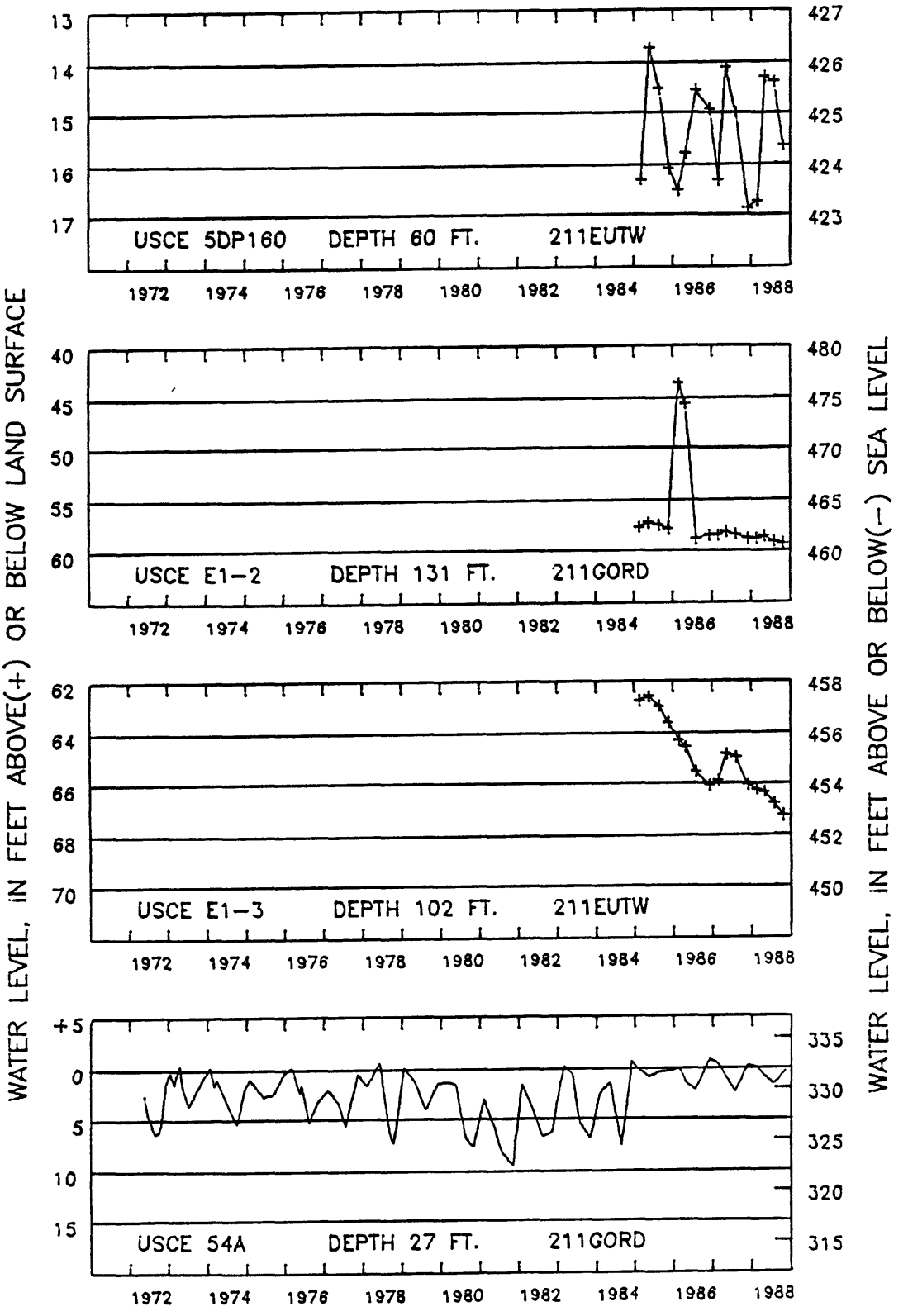
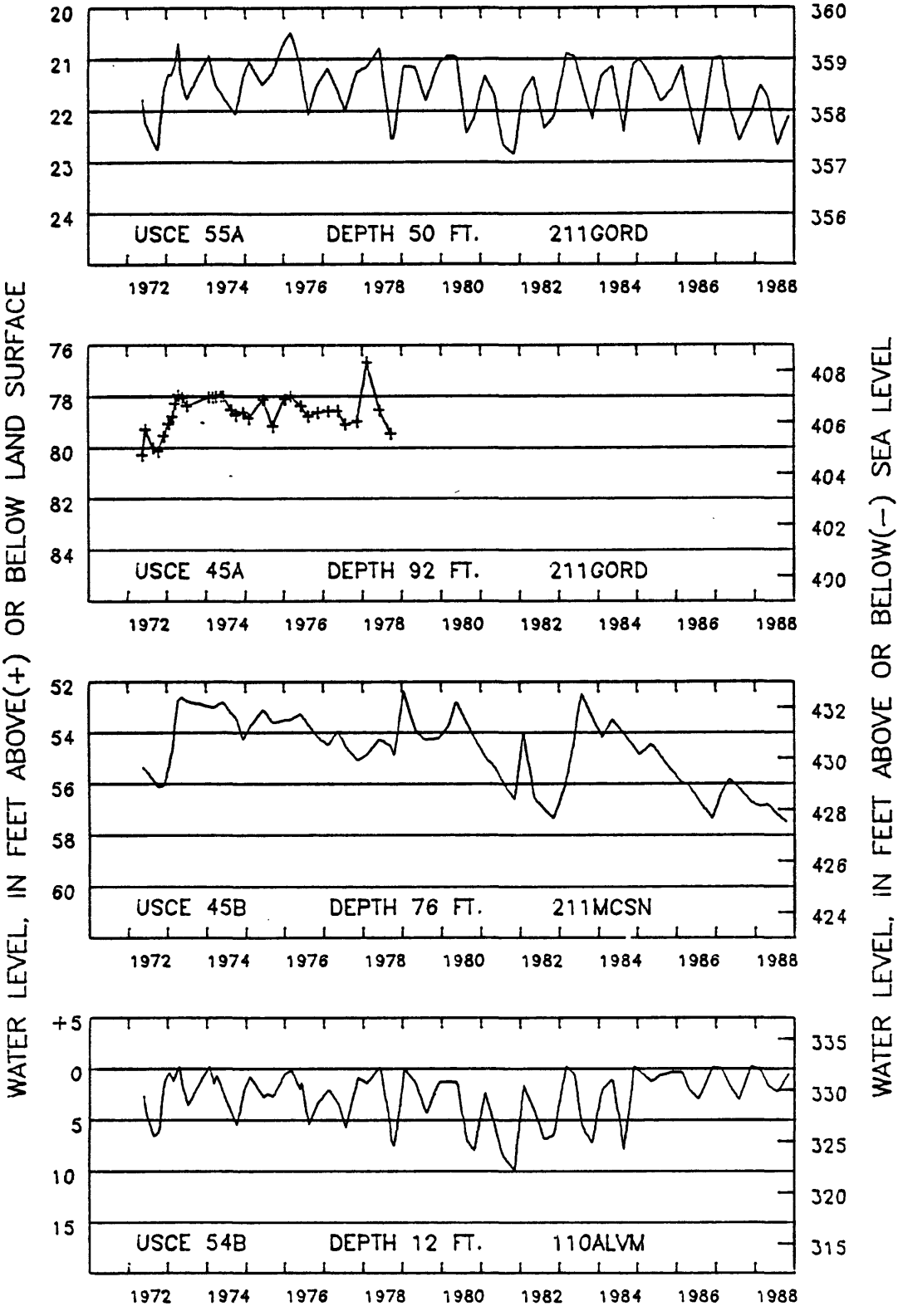


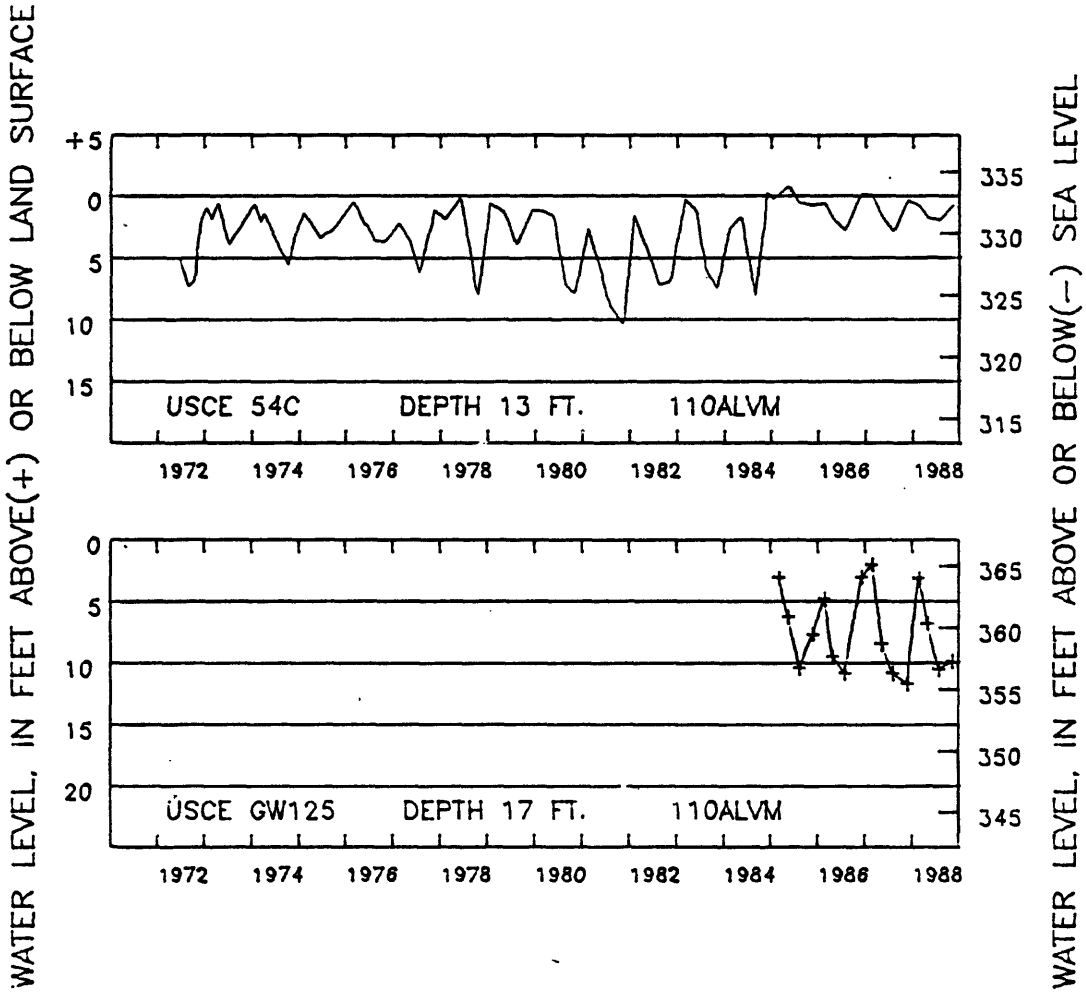
HYDROGRAPHS OF TENNESSEE–TOMBIGBEE OBSERVATION WELLS



HYDROGRAPHS OF TENNESSEE-TOMBIGBEE OBSERVATION WELLS



HYDROGRAPHS OF TENNESSEE–TOMBIGBEE OBSERVATION WELLS



HYDROGRAPHS OF TENNESSEE–TOMBIGBEE OBSERVATION WELLS

APPENDIX A

GROUND-WATER DATA

WATER-QUALITY FIELD DETERMINATIONS

GROUND-WATER WELLS

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN)	FLOW RATE, INSTANTANEOUS (G/M)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)
GREENE COUNTY									
0001 USCE 134A	325150088092901	05-15-87	1000	--	--	--	30	4.90	17.0
PICKENS COUNTY									
P019 USCE 122A	331351088175001	05-14-87	0855	--	--	--	265	7.80	18.0
P020 USCE 122B	331351088175002	05-14-87	1150	--	--	--	105	4.90	18.0
SUMTER COUNTY									
F010 USCE 132A	325215088111301	05-14-87	1500	--	--	--	2250	7.90	20.5
LOWNDES COUNTY									
C101 USCE 114C	333355088282503	06-03-87	1430	10.61	--	--	290	7.20	17.5
MONROE COUNTY									
C057 USCE 89A	340409088243801	06-03-87	1055	8.46	--	--	115	6.30	18.0
C058 USCE 89B	340409088243802	06-03-87	0955	-0.25	--	--	139	6.20	18.0
PRENTISS COUNTY									
B035 NEW CANDLER W A	344217088302801	06-03-87	0739	--	10	125	279	6.80	18.0
TISHOMINGO COUNTY									
D041 USCE 12B	344638088200103	06-02-87	1325	63.13	60	10	190	6.50	17.5
D052 BURNSVILLE	345033088192201	06-02-87	1455	--	10	350	118	6.40	17.0
E006 IUKA	344849088120401	06-02-87	1558	--	10	776	24	5.60	17.0
E039 MIDWAY-PLEASANT HILL	344711088114802	06-02-87	1705	--	10	495	95	6.20	17.5
G040 USCE 22B	344218088184302	06-11-87	1015	174.97	35	5.0	162	5.70	17.0

page 111 follows

APPENDIX B

SURFACE-WATER DATA

page 113 follows

APPENDIX B

SURFACE-WATER DATA

DESCRIPTIONS OF SITES

Page 115 follows

DESCRIPTIONS OF SURFACE-WATER SITES

STATION NUMBER	STATION NAME	LATITUDE	LONGITUDE	SEQ. NO.	HYDRO-LOGIC UNIT CODE	DRAIN-AGE AREA (SQ. MI.)
	SURFACE-WATER NETWORK					
03592824	TENNESSEE-TOMBIGBEE WATERWAY AT CROSS ROADS, MS	34 54 51	088 14 48	00	06030005	
343140088192235	TTW BAY SPRINGS LAKE NAVIGATION MILE 412.3	34 31 40	088 19 22	35	03160101	
02430005	TENN-TOM WATERWAY BELOW BAY SPRINGS LOCK AND DAM, MS	34 31 24	088 19 27	35	03160101	
342201088242935	TTW LOCK "D" POOL SEDIMENTATION RANGE 1AD	34 22 01	088 24 29	35	03160101	
340103088285435	TTW LOCK "A" POOL SEDIMENTATION RANGE 1AA	34 01 03	088 28 54	35	03160101	
02430100	MACKEYS CREEK NEAR MOORES MILL, MS	34 29 13	088 20 44	00	03160101	118
02436500	TOWN CREEK NEAR NETTLETON, MS	34 03 32	088 37 40	00	03160102	620
02437000	TOMBIGBEE RIVER NEAR AMORY, MS	33 59 07	088 33 03	00	03160101	1930
335008088311335	TTW ABERDEEN LAKE SEDIMENTATION RANGE 1A	33 50 08	088 31 13	35	03160101	
02437101	TOMBIGBEE RIVER BELOW ABERDEEN LOCK AND DAM, MS	33 49 29	088 31 16	35	03160101	2050
02437600	JAMES CREEK AT ABERDEEN, MS	33 48 48	088 33 59	00	03160101	28.4
333927088304935	TTW COLUMBUS LAKE BUTTAHATCHEE RIVER BEND SR 26A	33 39 27	088 30 49	35	03160101	
02439600	BUTTAHATCHEE RIVER NEAR KOLOLA SPRINGS, MS	33 40 24	088 25 45	00	03160103	855
02441000	TIBBEE CREEK NEAR TIBBEE, MS	33 32 17	088 38 00	00	03160104	926
333119088291435	TTW COLUMBUS LAKE SEDIMENTATION RANGE 1A	33 31 19	088 29 14	35	03160101	
02441391	TOMBIGBEE RIVER BELOW COLUMBUS LOCK AND DAM, MS	33 31 04	088 29 22	35	03160101	4440
02441498	TOMBIGBEE RIVER COLUMBUS BEND SR 11B AT COLUMBUS, MS	33 26 06	088 29 38	35	03160101	
02443500	LUXAPALLILA CREEK NEAR COLUMBUS, MS	33 30 50	088 23 42	00	03160105	715
02443610	TOMBIGBEE RIVER PRATT CAMP SR 5HB BELOW COLUMBUS, MS	33 20 30	088 23 40	00	03160106	
02444158	TOMBIGBEE RIVER ABOVE BEVILL LOCK AND DAM, AL	33 13 08	088 17 10		03160106	
02444161	TOMBIGBEE RIVER BELOW BEVILL LOCK AND DAM, AL	33 12 37	088 17 19		03160106	5750
02444210	TOMBIGBEE RIVER BIG CREEK BEND NEAR PICKENSVILLE, AL	33 11 11	088 16 03		03160106	
02447010	TOMBIGBEE RIVER COOKS BEND NEAR WARSAW, AL	32 57 38	088 11 14		03160106	
02447020	TOMBIGBEE RIVER ABOVE GAINESVILLE LOCK AND DAM, AL	32 51 38	088 09 25		03160106	
02449000	TOMBIGBEE RIVER AT GAINESVILLE, AL	32 49 30	088 09 24	00	03160106	8630
02466998	TOMBIGBEE RIVER ABOVE DEMOPOLIS LOCK AND DAM, AL	32 30 55	087 51 27		03160201	
	SITES NOT IN THE SURFACE-WATER NETWORK					
332929088273300	TTW ALICEVILLE LAKE ABOVE COLUMBUS BEND	33 29 29	088 27 33		03160101	
332751088261000	TTW ALICEVILLE LAKE COLUMBUS CUT	33 27 51	088 26 10		03160101	
3321120882235	TTW ALICEVILLE LAKE ABOVE HAIRSTON BEND	33 21 12	088 22 35		03160106	
3321000882248	TTW ALICEVILLE LAKE HAIRSTON BEND SR 11HB	33 21 00	088 22 48		03160106	
3320300882122	TTW ALICEVILLE LAKE HAIRSTON CUT	33 20 30	088 21 22		03160106	
02448000	NOXUBEE RIVER AT MACON, MS	33 06 08	088 33 40	00	03160108	768
323704087542400	TTW DEMOPOLIS LAKE ABOVE RATTLESNAKE BEND SR 12CA	32 37 04	087 54 24		03160106	
323653087540800	TTW DEMOPOLIS LAKE RATTLESNAKE BEND SR RB1	32 36 53	087 54 08		03160106	
323642087541800	TTW DEMOPOLIS LAKE RATTLESNAKE CUT SR 12CB	32 36 42	087 54 18		03160106	
02469762	TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM, AL	31 45 30	088 07 35		03160203	18400

page 117 follows

APPENDIX B

SURFACE-WATER DATA

WATER-QUALITY FIELD DETERMINATIONS AND ANALYSES

page 119 follows

SURFACE-WATER SITES

03592824 TENNESSEE-TOMBIGBEE WATERWAY AT CROSS ROADS, MS

DATE	TIME	SAMPLING DEPTH (FEET)	GAGE HEIGHT (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY									
04...	0910	--	13.45	--	--	--	35.9	--	--
04...	0911	1.00	--	153	7.70	20.5	--	7.0	78
04...	0912	5.00	--	154	7.70	20.5	--	6.8	76
04...	0913	10.0	--	154	7.70	20.5	--	6.6	74
04...	0914	15.0	--	155	7.70	20.0	--	6.4	71
04...	0915	17.0	--	156	7.70	20.0	--	6.4	71
JUL									
20...	0900	--	12.85	--	--	--	42.0	--	--
20...	0901	1.00	--	154	8.00	30.0	--	6.7	89
20...	0902	5.00	--	154	8.00	29.5	--	6.7	88
20...	0903	10.0	--	154	8.00	29.5	--	5.8	76
20...	0904	15.0	--	153	7.90	29.5	--	5.8	76

343140088192235 TTW BAY SPRINGS LAKE NAVIGATION MILE 412.3

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
04...	1150	--	--	--	--	125	--	--
04...	1151	1.00	118	8.00	21.5	--	8.5	97
04...	1152	5.00	117	8.50	21.0	--	8.7	98
04...	1153	10.0	117	8.40	20.5	--	8.7	97
04...	1154	15.0	116	8.40	20.0	--	8.6	95
04...	1155	20.0	116	8.30	19.5	--	8.3	91
04...	1156	25.0	115	8.20	19.0	--	8.3	90
04...	1157	30.0	114	8.10	18.5	--	7.6	81
04...	1158	35.0	114	8.10	17.0	--	6.6	69
04...	1159	40.0	115	8.10	15.0	--	5.6	56
04...	1200	45.0	114	8.10	14.5	--	5.4	53
04...	1201	50.0	113	8.10	14.0	--	5.6	55
04...	1202	55.0	112	8.10	13.5	--	5.0	48
04...	1203	60.0	112	8.00	13.0	--	4.0	38
04...	1204	65.0	113	8.00	13.0	--	3.2	30
04...	1205	67.0	112	7.90	12.5	--	3.0	28
JUL								
20...	1130	--	--	--	--	168	--	--
20...	1131	1.00	118	8.20	30.5	--	6.7	89
20...	1132	5.00	118	8.20	30.5	--	6.8	91
20...	1133	10.0	118	8.20	30.0	--	6.8	90
20...	1134	15.0	118	8.20	30.0	--	6.7	89
20...	1135	20.0	117	8.10	29.5	--	6.5	85
20...	1136	25.0	116	7.60	27.5	--	2.9	37
20...	1137	30.0	117	8.00	24.5	--	0.4	5
20...	1138	35.0	113	8.50	19.5	--	0.3	3
20...	1139	40.0	112	8.60	17.0	--	0.3	3
20...	1140	45.0	112	8.40	15.5	--	0.2	2
20...	1141	50.0	110	8.30	14.5	--	0.3	3
20...	1142	55.0	110	8.00	14.5	--	0.2	2
20...	1143	60.0	120	7.80	13.5	--	0.3	3
20...	1144	65.0	133	7.80	13.0	--	0.4	4

02430005 TENN-TOM WATERWAY BELOW BAY SPRINGS LOCK AND DAM, MS

DATE	TIME	SAMPLING DEPTH (FEET)	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY									
04...	1330	--	0.0	--	--	--	110	--	--
04...	1331	1.00	--	116	6.80	20.0	--	8.5	94
04...	1332	5.00	--	117	6.80	19.5	--	8.5	93
04...	1333	10.0	--	117	7.80	19.0	--	8.4	91
04...	1334	13.0	--	116	8.20	19.0	--	8.4	91
JUL									
20...	1430	--	0.0	--	--	--	90.2	--	--
20...	1431	1.00	--	118	9.90	29.5	--	12.2	160
20...	1432	5.00	--	119	9.50	29.0	--	10.4	135
20...	1433	10.0	--	120	9.10	29.0	--	9.9	128
20...	1434	13.0	--	120	8.80	29.0	--	9.4	122

342201088242935 TTW LOCK "D" POOL SEDIMENTATION RANGE 1AD

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
04...	1530	--	--	--	--	87.2	--	--
04...	1531	1.00	89	8.40	25.5	--	8.5	104
04...	1532	5.00	88	8.50	24.0	--	7.9	94
04...	1533	10.0	87	8.50	23.0	--	7.6	89
04...	1534	15.0	88	8.40	22.0	--	6.3	72
04...	1535	20.0	88	8.10	21.5	--	3.6	41
JUL								
20...	1600	--	--	--	--	72.6	--	--
20...	1601	1.00	89	8.40	33.0	--	7.1	98
20...	1602	5.00	91	9.30	32.0	--	9.7	132
20...	1603	10.0	92	8.70	31.0	--	7.8	105
20...	1604	15.0	92	7.80	30.0	--	5.0	66
20...	1605	18.0	94	7.30	30.0	--	1.3	17

340103088285435 TTW LOCK "A" POOL SEDIMENTATION RANGE 1AA

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
05...	1015	--	--	--	--	27.5	--	--
05...	1016	1.00	44	7.30	24.0	--	6.9	82
05...	1017	5.00	44	7.20	23.5	--	6.8	80
05...	1018	10.0	44	7.20	23.0	--	6.7	78
05...	1019	13.0	44	7.20	23.0	--	6.6	77
JUL								
21...	0900	--	--	--	--	31.1	--	--
21...	0901	1.00	52	7.10	30.0	--	6.3	83
21...	0902	5.00	51	6.90	30.0	--	6.1	80
21...	0903	10.0	51	6.90	30.0	--	6.2	81
21...	0904	12.0	51	6.90	30.0	--	6.2	81

02430100 MACKEYS CREEK NEAR MOORES MILL, MS

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
04...	1745	64	115	7.90	21.5	>34.2	7.6	86
JUL								
20...	1300	59	110	7.80	29.0	>24.4	6.4	83

02436500 TOWN CREEK NEAR NETTLETON, MS

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
05...	0830	121	331	8.00	22.0	>24.0	7.5	86
JUL								
21...	1130	29	450	9.60	29.5	>12.3	17.4	227

02436500 TOWN CREEK NEAR NETTLETON, MS--Continued

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
27...	1310	134	45	16	95
NOV					
24...	0050	21800	1470	86500	63
24...	0540	22000	993	59000	53
25...	0850	6540	442	7800	89
DEC					
08...	1130	2820	1040	7920	65
JAN					
20...	1330	1300	248	870	--
FEB					
23...	1730	2370	521	3330	--
APR					
14...	0820	1160	701	2200	--
14...	0905	1380	1120	4170	--
14...	1100	2060	1500	8340	--
14...	1400	2650	1400	10000	62
14...	2000	2010	989	5370	--
15...	0840	1080	448	1310	--
JUN					
04...	1500	97	45	12	--
JUL					
07...	1200	85	31	7.1	--
AUG					
19...	1100	392	349	369	--

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM
NOV												
24...	0050	33	38	42	48	55	63	77	97	99	99	100
24...	0540	30	33	37	42	47	53	71	98	100	--	--
25...	0850	47	50	58	65	79	89	95	99	100	--	--
DEC												
08...	1130	30	35	41	46	56	65	81	98	100	--	--
APR												
14...	1400	27	31	35	43	53	62	76	95	100	--	--

DATE	TIME	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
JUL									
07...	1202	25.0	--	3	32	78	99	--	--
07...	1204	50.0	1	4	33	79	98	99	99
07...	1206	75.0	1	2	13	68	97	98	99

02437000 TOMBIGBEE RIVER NEAR AMORY, MS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (IN)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAY								
05...	1500	<1000	160	8.50	25.5	22.0	8.9	108
JUL								
21...	1030	<1000	123	7.40	29.5	26.0	6.4	83

335008088311335 TTW ABERDEEN LAKE SEDIMENTATION RANGE 1A

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
05...	1600	--	--	--	--	27.0	--	--
05...	1601	1.00	130	8.20	25.5	--	9.1	111
05...	1602	5.00	131	8.10	25.0	--	7.9	95
05...	1603	10.0	131	7.90	23.5	--	6.7	79
05...	1604	15.0	131	7.80	23.5	--	6.1	72
05...	1605	18.0	131	7.70	23.0	--	5.3	62
JUL								
21...	1330	--	--	--	--	29.7	--	--
21...	1331	1.00	117	9.60	31.5	--	12.1	163
21...	1332	5.00	118	8.90	31.0	--	9.6	128
21...	1333	10.0	118	8.40	30.5	--	6.9	91
21...	1334	15.0	119	8.00	30.0	--	5.3	69
21...	1335	18.0	118	7.80	30.0	--	4.8	63

02437101 TOMBIGBEE RIVER BELOW ABERDEEN LOCK AND DAM, MS

DATE	TIME	SAMPLING DEPTH (FEET)	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY									
05...	1730	--	1060	--	--	--	27.0	--	--
05...	1731	1.00	--	133	7.80	23.5	--	7.7	90
05...	1732	5.00	--	133	7.80	23.5	--	7.7	90
05...	1733	10.0	--	132	7.80	23.5	--	7.7	90
05...	1734	13.0	--	132	7.80	23.5	--	7.7	90
JUL									
21...	1445	--	212	--	--	--	25.1	--	--
21...	1446	1.00	--	121	9.60	31.0	--	11.7	156
21...	1447	5.00	--	121	9.10	30.5	--	10.5	139
21...	1448	10.0	--	122	8.70	30.5	--	9.6	127

02437600 JAMES CREEK AT ABERDEEN, MS

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
05...	1300	0.03	799	9.30	25.0	>2.40	12.0	145
JUL								
21...	1230	0.0	--	--	--	--	--	--

333927088304935 TTW COLUMBUS LAKE BUTTAHATCHEE RIVER BEND SR 26A

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
06...	1500	--	--	--	--	23.0	--	--
06...	1501	1.00	190	7.90	26.0	--	7.6	93
06...	1502	5.00	190	7.80	24.5	--	7.1	85
06...	1503	10.0	195	7.60	24.0	--	6.1	72
06...	1504	14.0	196	7.50	23.5	--	4.3	50
JUL								
22...	1430	--	--	--	--	30.0	--	--
22...	1431	1.00	230	8.40	31.5	--	8.2	110
22...	1432	5.00	224	8.10	30.5	--	6.6	87
22...	1433	10.0	224	7.70	30.0	--	4.8	63
22...	1434	14.0	215	7.40	30.0	--	3.2	42

02439600 BUTTAHATCHEE RIVER NEAR KOLOLA SPRINGS, MS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (IN)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAY								
06...	1230	399	30	7.30	22.0	33.0	7.2	82
JUL								
22...	1000	179	31	6.90	26.5	18.0	6.7	83

02441000 TIBBEE CREEK NEAR TIBBEE, MS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (IN)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAY								
06...	1030	<500	318	7.80	23.0	23.0	5.7	66
JUL								
22...	0800	<500	230	7.80	28.0	27.6	5.0	63

333119088291435 TTW COLUMBUS LAKE SEDIMENTATION RANGE 1A

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (IN)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAY								
06...	1600	--	--	--	--	23.0	--	--
06...	1601	1.00	140	7.80	25.0	--	7.7	93
06...	1602	5.00	139	7.70	24.5	--	7.3	87
06...	1603	10.0	142	7.60	24.0	--	6.1	72
06...	1604	15.0	152	7.50	23.5	--	5.2	61
06...	1605	20.0	173	7.50	23.0	--	4.5	52
JUL								
22...	1600	--	--	--	--	35.0	--	--
22...	1601	1.00	136	8.50	31.0	--	8.6	115
22...	1602	5.00	135	8.10	30.5	--	7.4	98
22...	1603	10.0	130	7.60	30.0	--	4.2	55
22...	1604	15.0	130	7.30	29.5	--	4.6	60
22...	1605	20.0	131	7.20	29.5	--	3.8	49
22...	1606	25.0	136	6.90	29.5	--	2.2	29

02441391 TOMBIGBEE RIVER BELOW COLUMBUS LOCK AND DAM, MS

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (IN)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAY								
11...	1200	--	112	7.30	24.5	13.5	7.8	--
11...	1201	5.00	115	7.10	24.0	--	7.8	--
11...	1202	10.0	113	7.10	24.0	--	7.7	--
11...	1203	14.0	113	7.10	24.0	--	7.7	--
JUL								
13...	1200	--	130	7.60	31.0	19.0	6.2	84
13...	1201	5.00	125	7.50	30.0	--	6.2	--
13...	1202	10.0	123	7.20	30.0	--	5.6	--
13...	1203	13.0	123	7.20	29.5	--	4.7	--

332929088273300 TTW ALICEVILLE LAKE ABOVE COLUMBUS BEND

DATE	TIME	STREAM FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (LEFT) (MG/L)	SEDI-MENT, SUS-PENDED (CENTER) (MG/L)	SEDI-MENT, SUS-PENDED (RIGHT) (MG/L)	SEDI-MENT, SUS-PENDED (TOTAL) (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
FEB							
27...	1535	57100	324	300	285	303	46700
28...	0820	58800	316	296	286	299	47500
MAR							
01...	0835	63800	344	317	282	314	54100
02...	1240	63700	230	216	188	211	36300
03...	0840	53200	117	113	101	110	15800
03...	1320	49200	102	98	99	100	13300

DATE	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
MAR								
04...	25.0	--	<1	3	10	13	15	22
04...	50.0	--	<1	5	12	15	17	21
04...	75.0	--	<1	12	42	42	43	46

02441498 TOMBIGBEE RIVER COLUMBUS BEND SR 11B AT COLUMBUS, MS

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (IN)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAY								
11...	1315	--	117	6.90	24.5	18.7	3.4	--
11...	1316	5.00	121	6.90	24.0	--	4.1	--
11...	1317	10.0	120	6.80	24.0	--	5.8	--
11...	1318	15.0	121	6.80	24.0	--	6.3	--
11...	1319	20.0	120	6.80	24.0	--	6.4	--
11...	1320	21.0	120	6.70	24.0	--	6.5	--
JUL								
13...	1305	--	124	8.30	31.0	26.2	7.7	104
13...	1306	5.00	125	8.10	30.5	--	7.8	--
13...	1307	10.0	129	8.10	30.0	--	7.8	--
13...	1308	15.0	128	7.10	29.5	--	4.0	--
13...	1309	20.0	129	7.00	29.5	--	3.6	--
13...	1310	25.0	131	6.90	29.5	--	2.9	--

DATE	TIME	STREAM FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (LEFT) (MG/L)	SEDI-MENT, SUS-PENDED (CENTER) (MG/L)	SEDI-MENT, SUS-PENDED (RIGHT) (MG/L)	SEDI-MENT, SUS-PENDED (TOTAL) (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
FEB							
27...	1610	20100	277	239	263	260	14100
28...	0855	20400	271	281	267	273	15000
MAR							
01...	0910	23800	236	259	255	250	16100
02...	1310	21800	199	195	192	195	11500
03...	0905	19300	106	115	103	108	5630
03...	1305	19500	107	243	98	149	7840

DATE	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
MAR								
04...	25.0	1	5	10	12	13	15	22
04...	50.0	--	14	42	66	77	82	88
04	75.0	--	--	--	--	--	--	--

332751088261000 TTW ALICEVILLE LAKE COLUMBUS CUT

DATE	TIME	STREAM FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (LEFT) (MG/L)	SEDIMENT, SUSPENDED (CENTER) (MG/L)	SEDIMENT, SUSPENDED (RIGHT) (MG/L)	SEDIMENT, SUSPENDED (TOTAL) (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
FEB							
27...	1515	37000	333	378	343	351	35100
28...	0800	38400	318	331	332	327	33900
MAR							
01...	0815	40000	313	323	311	316	43100
02...	1220	41900	218	239	233	230	26000
03...	0810	33900	160	130	134	141	12900
03...	1420	29700	266	123	111	167	13400

DATE	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
MAR								
04...	25.0	5	10	28	48	54	57	64
04...	50.0	<1	2	59	88	95	97	98
04...	75.0	<1	<1	15	81	97	99	100

02443500 LUXAPALLILA CREEK NEAR COLUMBUS, MS

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
06...	0745	183	33	6.90	21.5	42.5	6.8	77
JUL								
22...	1130	75	31	6.60	26.5	54.0	4.8	59

332112088223500 TTW ALICEVILLE LAKE ABOVE HAIRSTON BEND

DATE	TIME	STREAM FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (LEFT) (MG/L)	SEDIMENT, SUSPENDED (CENTER) (MG/L)	SEDIMENT, SUSPENDED (RIGHT) (MG/L)	SEDIMENT, SUSPENDED (TOTAL) (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
FEB							
28...	1300	63200	354	397	373	375	64000
MAR							
01...	1145	69700	416	479	432	442	83200
02...	1035	74000	387	549	359	432	86300
03...	1130	60800	114	105	118	112	18400
04...	1050	40800	67	79	72	73	8040

DATE	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
MAR								
04...	25.0	--	--	--	--	--	--	--
04...	50.0	<1	<1	1	20	28	29	33
04...	75.0	--	<1	1	61	81	84	88

332100088224800 TTW ALICEVILLE LAKE HAIRSTON BEND SR 11HB

DATE	TIME	STREAM FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (LEFT) (MG/L)	SEDI-MENT, SUS-PENDED (CENTER) (MG/L)	SEDI-MENT, SUS-PENDED (RIGHT) (MG/L)	SEDI-MENT, SUS-PENDED (TOTAL) (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
FEB							
28...	1015	6800	333	358	373	355	6520
MAR							
01...	0935	7100	1147	402	448	666	12800
02...	0810	16200	340	403	473	405	17700
03...	0940	10800	152	141	156	150	4370
04...	0900	4500	78	64	60	67	814

DATE	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
MAR								
04...	25.0	<1	2	46	100	--	--	--
04...	50.0	<1	6	90	100	--	--	--
04...	75.0	<1	8	98	100	--	--	--

02443610 TOMBIGBEE RIVER PRATT CAMP SR 5HB BELOW COLUMBUS, MS

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (IN)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAY								
12...	0830	--	135	7.20	24.5	26.2	6.2	--
12...	0831	5.00	134	7.20	24.5	--	6.5	--
12...	0832	10.0	177	7.10	24.5	--	3.2	--
12...	0833	15.0	151	6.70	22.5	--	0.9	--
JUL								
13...	1515	--	127	8.50	32.0	31.5	7.3	100
13...	1516	5.00	129	8.20	31.5	--	7.4	--
13...	1517	10.0	139	7.00	29.5	--	0.9	--
13...	1518	15.0	151	6.70	28.0	--	0	--

332030088212200 TTW ALICEVILLE LAKE HAIRSTON CUT

DATE	TIME	STREAM FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (LEFT) (MG/L)	SEDI-MENT, SUS-PENDED (CENTER) (MG/L)	SEDI-MENT, SUS-PENDED (RIGHT) (MG/L)	SEDI-MENT, SUS-PENDED (TOTAL) (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
FEB							
28...	1150	56400	358	409	506	424	64600
MAR							
01...	1030	62600	499	475	472	482	81500
02...	0915	57800	342	334	740	472	73700
03...	1035	50000	121	326	142	196	26500
04...	0955	36300	55	63	64	61	5980

DATE	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
MAR								
04...	25.0	<1	<1	2	7	14	18	26
04...	50.0	--	--	2	24	55	61	70
04...	75.0	--	<1	4	95	99	100	--

02444158 TOMBIGBEE RIVER ABOVE BEVILL LOCK AND DAM, AL

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
12...	1025	--	120	7.00	25.0	25.5	4.4	--
12...	1026	5.00	122	7.00	24.5	--	5.0	--
12...	1027	10.0	122	6.90	24.5	--	6.0	--
12...	1028	15.0	122	6.80	24.5	--	5.8	--
12...	1029	20.0	122	6.90	24.5	--	5.3	--
12...	1030	25.0	122	6.80	24.0	--	5.1	--
12...	1031	29.0	123	6.90	24.0	--	4.3	--
JUL								
14...	0930	--	122	7.30	30.5	27.7	5.7	77
14...	0931	5.00	122	7.40	30.5	--	5.7	--
14...	0932	10.0	121	7.40	30.5	--	5.6	--
14...	0933	15.0	121	7.20	30.5	--	5.4	--
14...	0934	20.0	121	7.00	30.5	--	3.0	--
14...	0935	25.0	122	6.70	29.5	--	1.9	--
14...	0936	30.0	124	6.80	29.5	--	0.4	--

02444161 TOMBIGBEE RIVER BELOW BEVILL LOCK AND DAM, AL

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
12...	1205	--	120	6.90	24.5	15.0	5.1	--
12...	1206	5.00	121	7.00	24.5	--	6.2	--
12...	1207	10.0	122	7.00	24.5	--	8.0	--
12...	1208	15.0	122	7.00	24.5	--	9.6	--
12...	1209	20.0	122	7.00	24.5	--	9.3	--
JUL								
14...	1210	--	121	7.00	30.5	22.5	6.3	84
14...	1211	5.00	120	7.40	30.5	--	6.2	--
14...	1212	10.0	120	7.30	30.5	--	6.0	--
14...	1213	13.0	120	7.30	30.5	--	6.2	--

02444210 TOMBIGBEE RIVER BIG CREEK BEND NEAR PICKENSVILLE, AL

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
12...	1255	--	65	6.90	24.0	10.5	5.5	--
12...	1256	5.00	67	6.70	23.0	--	6.3	--
JUL								
14...	1245	--	86	7.30	30.5	12.5	6.1	81
14...	1246	5.00	87	7.20	30.5	--	6.4	--

02447010 TOMBIGBEE RIVER COOKS BEND NEAR WARSAW, AL

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
12...	1535	--	114	7.50	28.0	22.5	4.0	--
12...	1536	5.00	116	7.20	25.5	--	6.2	--
12...	1537	10.0	116	7.00	25.0	--	6.8	--
12...	1538	15.0	116	6.90	25.0	--	7.1	--
12...	1539	20.0	116	6.80	24.5	--	6.6	--
12...	1540	25.0	116	6.80	25.0	--	6.7	--
12...	1541	30.0	116	6.90	25.0	--	6.5	--
12...	1542	35.0	117	6.90	25.0	--	6.4	--
12...	1543	40.0	117	6.90	25.0	--	6.4	--
12...	1544	42.0	117	6.80	24.5	--	6.4	--
JUL								
14...	1605	--	110	8.40	32.0	32.5	7.0	96
14...	1606	5.00	112	7.60	30.5	--	6.8	--
14...	1607	10.0	113	7.40	30.5	--	6.0	--
14...	1608	15.0	113	7.20	30.0	--	6.0	--
14...	1609	20.0	115	7.00	30.0	--	4.1	--
14...	1610	25.0	116	6.90	30.0	--	2.5	--
14...	1611	30.0	119	6.80	29.5	--	2.5	--
14...	1612	35.0	121	6.70	29.5	--	2.1	--
14...	1613	38.0	127	6.80	29.5	--	0.8	--

02447020 TOMBIGBEE RIVER ABOVE GAINESVILLE LOCK AND DAM, AL

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
13...	0900	--	120	6.90	25.5	19.7	6.4	--
13...	0901	5.00	120	7.00	25.5	--	6.7	--
13...	0902	10.0	120	7.10	25.5	--	6.5	--
13...	0904	15.0	120	7.10	25.5	--	6.6	--
13...	0905	20.0	119	7.00	25.5	--	6.5	--
13...	0906	25.0	119	7.00	25.5	--	6.5	--
13...	0907	30.0	119	7.00	25.5	--	6.5	--
13...	0908	35.0	119	7.10	25.5	--	6.4	--
13...	0909	40.0	119	7.00	25.5	--	6.2	--
13...	0910	41.0	119	7.00	25.5	--	6.1	--
JUL								
15...	0940	--	124	7.30	29.5	30.7	5.7	75
15...	0941	5.00	123	7.40	29.5	--	5.8	--
15...	0942	10.0	124	7.40	29.5	--	5.8	--
15...	0943	15.0	123	7.30	29.5	--	5.8	--
15...	0944	20.0	123	7.40	29.5	--	5.8	--
15...	0945	25.0	123	7.30	29.5	--	5.8	--
15...	0946	30.0	123	7.00	29.5	--	4.4	--
15...	0947	32.0	123	7.00	29.5	--	1.6	--

02448000 NOXUBEE RIVER AT MACON, MS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
06...	1805	51	31	4.3	85
NOV					
18...	0945	128	27	9.3	93
JAN					
06...	1345	456	43	53	--
FEB					
17...	1030	3190	163	1400	--
26...	2000	4310	200	2330	--
MAR					
01...	1600	10700	40	1160	97
02...	2100	9590	39	1010	--
03...	1045	8840	36	859	--
31...	0920	1020	89	245	--
MAY					
12...	1000	459	100	124	--
JUN					
16...	1250	167	57	26	--
JUL					
20...	1830	74	40	8.0	--
SEP					
15...	1030	74	406	81	--

DATE	TIME	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
MAR									
01...	1604	50.0	2	3	22	96	100	--	--
01...	1605	70.0	1	1	2	44	94	--	--
01...	1606	85.0	100	--	--	--	--	--	--
SEP									
15...	1032	25.0	--	--	2	10	20	30	41
15...	1034	50.0	--	--	1	4	7	10	15
15...	1036	75.0	--	--	2	16	30	43	60

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL

DATE	TIME	SAM-PLING DEPTH (FEET)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (IN)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
15...	0955	--	2110	168	7.90	22.0	--	7.4	85
NOV									
19...	0920	--	2170	155	7.90	16.0	--	9.4	95
DEC									
10...	1030	--	24500	86	7.20	12.0	--	11.0	101
JAN									
13...	1000	--	3980	101	7.40	7.0	--	12.6	104
FEB									
18...	1030	--	19100	106	7.10	11.0	--	11.2	102
MAR									
20...	1020	--	21400	87	7.00	15.0	--	10.7	107
APR									
22...	0915	--	2110	99	6.90	21.0	--	8.6	97
MAY									
13...	1045	--	217	114	7.00	25.5	--	8.8	108
13...	1046	--	--	114	7.40	26.0	17.2	8.0	--
13...	1047	5.00	--	116	7.30	25.5	--	8.8	--
13...	1048	10.0	--	116	7.30	25.5	--	8.6	--
13...	1049	15.0	--	119	7.20	25.0	--	8.6	--
13...	1050	16.0	--	122	7.20	25.0	--	7.8	--
JUN									
17...	0840	--	3100	137	6.60	29.0	--	7.4	96
JUL									
15...	1200	--	3100	126	6.80	30.0	--	7.0	93
15...	1201	5.00	--	127	8.00	29.5	--	6.5	--
15...	1202	10.0	--	128	7.70	29.5	--	6.2	--
15...	1203	15.0	--	128	7.60	29.5	--	6.2	--
15...	1204	18.0	--	130	7.60	29.5	--	6.3	--
AUG									
18...	0945	--	1190	149	7.00	31.0	--	7.6	102
SEP									
09...	0945	--	380	160	7.40	28.0	--	7.6	97

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL--Continued

DATE	TIME	TURBIDITY (FTU)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO
OCT 15...	0955	38	160	280	67	27	24	1.7	6.2	16	0.3
NOV 19...	0920	22	98	--	62	10	22	1.8	6.5	18	0.4
DEC 10...	1030	3.7	550	3100	38	9	13	1.3	2.6	12	0.2
JAN 13...	1000	15	45	180	38	10	13	1.4	3.3	15	0.2
FEB 18...	1030	62	2300	1500	45	12	16	1.3	3.4	13	0.2
MAR 20...	1020	27	450	360	35	10	12	1.2	2.8	14	0.2
APR 22...	0915	9.0	K5	K6	40	10	13	1.7	4.1	18	0.3
MAY 13...	1045	6.5	K23	K19	47	9	16	1.8	4.2	16	0.3
JUN 17...	0840	11	--	--	52	13	18	1.7	5.6	18	0.4
JUL 15...	1200	8.0	14	30	49	8	17	1.7	4.8	17	0.3
AUG 18...	0945	5.1	K4	--	58	9	20	1.9	5.2	16	0.3
SEP 09...	0945	3.9	40	K1	60	7	21	1.8	5.4	16	0.3

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE WATER WH IT FIELD MG/L AS HCO3	CARBONATE WATER WH IT FIELD MG/L AS CO3	ALKALINITY WAT WH TOT IT FIELD MG/L AS CACO3	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
OCT 15...	2.8	51	0	41	10	9.9	0.20	4.4	107	84	0.15
NOV 19...	2.8	64	0	53	14	8.7	<0.10	5.3	111	94	0.15
DEC 10...	2.1	34	0	28	16	4.3	<0.10	7.6	78	64	0.11
JAN 13...	1.6	35	0	28	14	5.8	<0.10	7.3	69	65	0.09
FEB 18...	1.7	43	0	35	12	5.3	<0.10	6.2	75	67	0.10
MAR 20...	1.3	31	0	25	10	4.2	<0.10	5.7	55	53	0.07
APR 22...	1.2	36	0	29	11	6.0	<0.10	4.0	63	59	0.09
MAY 13...	1.3	--	0	--	10	5.9	0.10	3.3	71	66	0.10
JUN 17...	1.8	53	0	43	11	11	0.10	1.6	79	75	0.11
JUL 15...	2.0	53	0	43	11	7.4	0.10	2.9	83	73	0.11
AUG 18...	2.4	60	0	49	11	7.1	0.20	4.7	91	82	0.12
SEP 09...	2.1	66	0	54	11	7.9	0.20	3.4	87	85	0.12

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL--Continued

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	PHOS-PHOROUS DIS-SOLVED (MG/L AS P)	PHOS-PHOROUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT 15...	610	--	--	0.40	0.030	--	--
NOV 19...	650	0.310	0.050	0.80	0.050	0.030	0.020
DEC 10...	5160	0.130	0.040	0.60	0.120	0.030	0.010
JAN 13...	741	0.220	0.030	0.60	0.050	0.020	<0.010
FEB 18...	3870	0.170	0.020	0.70	0.130	0.020	0.020
MAR 20...	3180	0.160	0.030	0.90	0.090	0.020	0.020
APR 22...	359	<0.100	0.020	0.50	0.030	0.020	<0.010
MAY 13...	41.6	--	--	0.30	0.050	--	--
JUN 17...	661	0.140	0.020	0.90	0.050	0.010	<0.010
JUL 15...	695	0.100	0.010	0.60	0.050	0.010	0.010
AUG 18...	292	<0.100	0.010	0.90	0.050	0.010	<0.010
SEP 09...	89.3	<0.100	0.020	0.60	0.030	<0.010	0.010

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT 15...	50	<1	34	<0.5	2	<1	<3	2	70	<5
FEB 18...	70	<1	21	<0.5	<1	<1	<3	4	180	<5
APR 22...	50	1	26	<0.5	1	<1	<3	3	200	<5
AUG 18...	20	1	23	<0.5	<1	<1	<3	<1	6	<5

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 15...	5	5	<0.1	<10	<1	<1	<1.0	150	<6	9
FEB 18...	<4	25	<0.1	<10	3	<1	<1.0	99	<6	47
APR 22...	5	2	<0.1	<10	2	<1	<1.0	89	<6	5
AUG 18...	<4	<1	<0.1	<10	<1	17	<1.0	130	<6	27

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL--Continued

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SUS. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
15...	0955	2110	48	273	84
NOV					
19...	0920	2170	20	117	98
24...	1600	40000	323	34990	--
25...	1600	53300	269	38700	--
DEC					
01...	1415	39100	87	9180	--
02...	1205	28100	55	4170	--
10...	1030	24500	52	3440	89
10...	1115	24700	80	5330	--
JAN					
13...	1000	3980	11	118	91
20...	1420	72400	285	55710	--
21...	1300	68300	138	25450	--
22...	1335	64500	120	20900	--
FEB					
18...	1030	19100	86	4440	94
18...	1245	19190	124	6420	85
27...	1505	53200	171	24560	78
28...	0900	76000	280	57460	78
MAR					
02...	1605	90100	305	74200	75
05...	1445	73400	85	16840	86
06...	1120	59800	58	9360	92
20...	1020	21400	--	--	82
APR					
22...	0915	2110	15	85	85
MAY					
13...	1045	217	19	11	90
JUN					
17...	0840	3100	29	243	93
JUL					
15...	1200	3100	20	167	96
AUG					
18...	0945	1190	14	45	99
SEP					
09...	0945	380	12	12	99

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	159	150	154	155	150	152	73	67	70	105	90	96
2	159	148	153	159	148	153	73	70	72	109	89	94
3	159	149	154	155	146	150	79	71	75	103	83	91
4	163	150	156	157	144	151	90	67	75	102	81	89
5	159	151	154	145	140	142	88	63	71	116	86	99
6	158	152	155	140	135	138	100	62	69	107	91	100
7	156	152	154	145	135	138	69	60	64	123	90	97
8	166	154	160	138	129	132	65	55	60	122	83	93
9	165	152	159	147	135	140	65	53	57	129	87	98
10	160	154	156	152	136	145	86	57	76	101	88	95
11	169	157	162	136	132	134	107	85	94	157	90	103
12	172	154	160	146	135	141	113	110	111	125	88	101
13	165	155	159	146	142	144	109	99	104	103	98	99
14	188	164	174	146	140	142	100	91	96	102	90	98
15	173	166	168	147	140	143	92	86	89	116	91	98
16	171	161	164	149	139	143	101	84	88	110	101	103
17	168	162	164	174	148	157	105	79	89	126	92	104
18	164	161	162	178	148	166	93	82	85	135	107	118
19	162	159	161	156	147	152	112	90	102	112	102	107
20	160	156	159	171	139	151	127	77	92	116	95	107
21	159	155	157	163	141	148	107	78	89	95	85	89
22	156	152	155	143	128	136	121	75	85	85	78	81
23	158	154	156	145	127	137	109	77	93	79	74	76
24	157	153	155	131	120	126	104	93	98	76	73	74
25	153	143	150	122	117	120	112	99	104	89	72	80
26	164	148	157	119	107	114	116	113	114	90	75	82
27	167	161	164	107	97	101	114	109	111	81	74	78
28	163	155	159	95	82	88	109	100	104	83	76	80
29	158	148	154	81	73	76		95	97	88	83	86
30	156	149	152	74	69	71		93	96	87	84	86
31	156	149	152	---	---	---		92	97	90	85	88
MONTH	188	143	158	178	69	134	127	53	88	157	72	93

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	90	84	88	88	73	80	104	95	99	132	104	112
2	110	84	99	73	69	71	99	90	95	122	104	110
3	108	87	94	67	60	63	105	86	92	123	104	111
4	93	84	89	60	58	59	114	86	98	115	105	107
5	88	82	85	59	57	58	119	86	97	124	108	110
6	90	80	84	62	59	61	95	84	90	123	111	115
7	111	86	100	67	61	63	96	86	89	140	109	118
8	112	102	107	79	66	71	126	83	91	124	110	116
9	106	102	104	77	68	72	97	83	88	135	111	118
10	111	103	109	80	67	73	126	84	91	129	110	114
11	113	107	111	84	79	82	105	82	87	136	110	116
12	110	104	107	86	83	84	123	83	93	131	111	115
13	110	103	106	83	78	80	92	86	89	130	114	119
14	110	104	106	78	74	75	105	83	89	132	113	116
15	123	100	109	77	73	75	116	84	92	124	112	115
16	117	104	110	86	77	81	94	87	91	135	111	116
17	115	102	106	108	79	87	97	89	92	147	116	121
18	112	104	107	106	78	94	126	88	97	150	113	122
19	115	112	113	97	84	90	108	93	98	137	112	120
20	111	100	105	91	81	85	119	90	99	142	111	123
21	100	95	97	93	84	88	117	96	100	142	112	119
22	117	96	104	99	93	96	113	96	100	132	113	119
23	111	94	102	99	95	97	125	96	102	144	114	125
24	108	99	105	97	94	96	128	99	107	130	110	115
25	102	96	99	96	91	93	120	100	104	128	109	115
26	104	94	97	98	85	91	122	101	104	124	114	118
27	99	91	95	91	83	85	123	101	105	132	117	121
28	94	90	93	89	84	87	116	103	107	126	118	121
29	---	---	---	96	85	88	124	100	105	125	122	123
30	---	---	---	115	97	105	119	102	111	135	119	123
31	---	---	---	104	97	99	---	---	---	127	119	123
MONTH	123	80	101	115	57	82	128	82	97	150	104	117
		JUNE			JULY			AUGUST			SEPTEMBER	
1	131	121	126	165	146	154	144	130	135	154	147	151
2	135	122	128	168	147	153	144	135	141	154	148	151
3	138	123	130	150	142	146	145	137	140	154	148	151
4	132	122	125	157	139	144	145	141	143	154	148	151
5	144	126	135	157	141	149	148	128	134	155	149	151
6	149	124	134	164	146	154	144	129	134	155	150	153
7	151	129	135	196	150	163	144	129	134	159	146	150
8	150	127	135	169	155	162	155	137	147	158	150	154
9	132	127	129	168	157	161	155	139	149	153	142	154
10	141	130	135	167	156	161	153	135	142	145	142	143
11	143	129	134	168	159	162	147	141	144	150	143	145
12	141	128	135	170	154	162	154	134	140	151	144	147
13	139	129	131	172	162	167	149	136	139	153	143	145
14	201	133	159	167	157	160	150	140	144	154	143	146
15	196	144	155	162	134	150	147	142	144	153	144	148
16	169	137	146	142	135	138	149	138	141	156	148	152
17	157	133	142	144	127	133	147	141	144	156	145	149
18	158	134	143	138	128	133	151	140	146	158	149	153
19	151	132	141	143	129	133	148	138	144	152	147	149
20	161	138	149	133	127	129	152	138	143	163	151	157
21	172	140	148	146	132	140	152	146	149	159	153	156
22	150	138	144	148	132	141	154	145	149	160	152	157
23	164	139	147	137	128	133	150	146	148	157	151	154
24	160	140	146	136	129	132	152	147	149	164	155	160
25	155	143	150	140	132	136	155	147	151	158	154	157
26	152	146	148	138	128	133	158	145	149	161	153	158
27	162	146	151	138	128	134	155	145	150	158	153	156
28	173	151	161	144	138	141	156	145	150	165	157	161
29	172	147	155	145	135	140	149	146	147	165	156	161
30	162	145	153	144	132	139	151	147	149	164	155	158
31	---	---	---	141	130	135	155	151	153	---	---	---
MONTH	201	121	142	196	127	146	158	128	144	165	142	153
YEAR	201	53	121									

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	28.5	28.0	28.0	19.0	18.5	19.0	13.5	13.5	13.5	6.5	6.0	6.0
2	28.5	27.5	28.0	19.0	18.0	18.5	13.5	13.0	13.5	6.0	5.5	6.0
3	29.0	28.0	28.5	19.0	18.0	19.0	13.0	13.0	13.0	6.0	5.5	6.0
4	28.5	27.5	28.0	18.5	18.5	18.5	12.5	12.5	12.5	6.0	5.5	6.0
5	29.0	28.0	28.5	19.0	18.5	19.0	12.5	12.0	12.5	6.0	5.5	6.0
6	28.0	27.0	27.5	19.0	18.5	19.0	12.0	11.0	12.0	6.0	5.5	6.0
7	27.5	26.5	27.0	19.0	18.5	19.0	11.5	11.5	11.5	6.5	6.0	6.0
8	26.5	26.0	26.0	19.0	19.0	19.0	11.5	11.5	11.5	6.5	6.0	6.5
9	26.5	25.5	26.0	19.5	19.0	19.5	11.5	11.5	11.5	6.5	6.0	6.5
10	27.0	26.0	26.0	19.5	19.5	19.5	12.0	11.5	11.5	7.0	6.5	6.5
11	26.0	24.0	25.0	19.5	19.0	19.0	11.5	11.0	11.0	6.5	6.5	6.5
12	25.0	22.5	24.0	19.0	18.5	18.5	11.0	10.5	10.5	6.5	6.0	6.5
13	25.0	23.5	25.0	18.0	17.0	17.5	10.5	10.0	10.5	7.0	6.5	6.5
14	24.0	20.5	22.0	17.0	16.0	16.5	10.0	9.5	9.5	7.0	6.5	6.5
15	23.0	22.0	22.5	16.0	15.0	16.0	9.5	9.0	9.5	7.0	7.0	7.0
16	23.0	20.0	22.5	16.0	15.0	15.5	9.0	9.0	9.0	7.5	7.0	7.0
17	22.5	20.0	22.0	16.0	15.0	15.5	9.5	9.0	9.5	8.0	7.0	7.5
18	22.5	21.0	22.0	16.0	15.5	16.0	9.5	9.5	9.5	9.5	8.0	9.0
19	22.5	21.0	21.5	16.0	15.5	16.0	10.0	9.5	10.0	10.0	9.5	10.0
20	22.0	20.0	21.0	16.0	15.5	15.5	10.0	9.5	9.5	10.0	9.5	9.5
21	21.5	20.5	21.0	15.5	15.0	15.0	9.5	9.5	9.5	9.5	8.5	9.0
22	20.5	19.5	20.0	15.0	14.5	15.0	9.5	9.0	9.5	8.5	7.5	8.0
23	21.0	20.0	20.5	14.5	14.0	14.0	9.5	9.0	9.0	7.5	6.5	7.0
24	21.0	20.0	20.5	14.5	14.0	14.5	9.0	9.0	9.0	6.5	6.5	6.5
25	21.0	19.5	20.5	15.0	14.5	14.5	9.0	8.5	9.0	6.5	6.5	6.5
26	19.5	19.0	19.0	15.0	14.5	14.5	8.5	8.0	8.5	6.5	6.0	6.0
27	19.5	18.5	19.0	15.5	14.5	15.0	8.0	7.5	8.0	6.0	5.5	5.5
28	19.5	18.5	19.0	15.0	14.0	14.5	7.5	7.5	7.5	5.5	5.5	5.5
29	19.0	17.5	18.5	14.5	13.5	14.0	7.0	7.0	7.0	5.5	5.5	5.5
30	19.0	17.5	18.5	13.5	13.5	13.5	7.0	6.5	6.5	6.5	5.5	6.0
31	19.0	18.5	18.5	---	---	---	6.5	6.0	6.5	7.0	6.5	6.5
MONTH	29.0	17.5	23.0	19.5	13.5	16.5	13.5	6.0	10.0	10.0	5.5	6.5
		FEBRUARY			MARCH			APRIL			MAY	
1	7.0	6.5	7.0	9.0	9.0	9.0	16.5	15.5	16.0	24.0	22.5	23.5
2	8.5	7.0	8.0	9.5	9.0	9.5	16.0	15.5	16.0	24.5	23.5	24.0
3	9.0	8.5	8.5	10.5	9.5	10.0	15.5	14.5	15.0	24.5	23.5	24.0
4	9.0	8.5	9.0	10.5	10.5	10.5	14.5	13.0	14.0	25.0	23.5	24.0
5	9.5	9.0	9.0	11.0	10.5	11.0	14.0	12.5	13.5	25.0	24.0	24.5
6	9.5	9.5	9.5	11.5	11.0	11.5	14.0	13.5	13.5	25.0	24.5	24.5
7	10.0	9.5	9.5	11.5	11.5	11.5	14.0	13.5	14.0	25.5	24.5	24.5
8	10.0	9.5	10.0	12.0	11.5	12.0	14.5	13.5	14.0	25.5	24.5	25.0
9	10.0	9.5	10.0	12.5	12.0	12.0	15.0	14.0	14.5	25.5	24.5	25.0
10	10.0	9.5	9.5	12.0	12.0	12.0	15.5	14.5	15.0	25.5	25.0	25.0
11	9.5	9.0	9.5	12.0	11.5	12.0	16.0	15.0	15.5	25.5	24.5	25.0
12	10.0	9.5	9.5	11.5	11.5	11.5	17.0	16.0	16.5	26.0	24.5	25.0
13	10.0	9.5	10.0	11.5	11.0	11.0	17.5	17.0	17.0	26.5	25.0	25.5
14	10.5	10.0	10.5	11.5	10.5	11.0	19.0	17.5	17.5	26.0	25.5	26.0
15	11.5	10.5	11.0	11.5	11.0	11.5	18.5	17.5	18.0	26.5	25.5	26.0
16	12.0	11.5	11.5	12.5	11.5	12.0	18.5	18.0	18.0	26.5	25.5	26.0
17	11.5	11.5	11.5	13.5	12.5	13.0	18.5	18.0	18.5	26.5	26.0	26.0
18	11.5	10.5	11.0	14.5	13.0	13.5	19.5	18.5	19.0	26.5	25.5	26.0
19	10.0	10.0	10.0	15.5	14.5	15.0	20.0	19.0	19.5	27.0	25.5	26.5
20	10.0	9.5	9.5	15.5	15.0	15.5	21.0	19.5	20.0	28.0	26.0	27.0
21	9.0	8.5	9.0	16.0	15.5	16.0	21.5	20.0	20.5	28.5	27.0	27.5
22	8.5	8.5	8.5	17.0	16.0	16.5	22.5	20.5	21.0	28.5	27.5	27.5
23	8.5	8.5	8.5	17.5	16.5	17.0	23.0	21.0	21.5	28.5	27.5	28.0
24	8.5	8.0	8.5	18.0	17.0	17.5	22.5	21.0	21.5	29.0	28.0	28.0
25	8.5	8.0	8.5	18.0	17.5	18.0	22.5	21.0	21.5	28.5	28.0	28.5
26	9.0	8.5	8.5	18.0	18.0	18.0	22.5	21.0	21.5	29.0	28.0	28.5
27	9.0	8.5	8.5	18.0	18.0	18.0	23.0	21.5	22.0	29.5	28.5	28.5
28	9.0	8.5	9.0	18.5	17.5	18.0	23.5	22.0	22.5	29.5	28.5	29.0
29	---	---	---	18.5	18.0	18.5	24.0	22.0	22.5	29.5	28.5	29.0
30	---	---	---	18.5	16.5	17.5	24.5	22.5	23.0	29.5	28.5	29.0
31	---	---	---	16.5	16.0	16.5	---	---	---	30.0	29.0	29.5
MONTH	12.0	6.5	9.5	18.5	9.0	13.5	24.5	12.5	18.0	30.0	22.5	26.5

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	31.0	29.0	29.5	30.5	30.0	30.0	33.0	32.0	32.5	29.5	28.0	28.5
2	30.5	29.0	30.0	30.0	29.0	30.0	33.5	32.0	32.5	29.0	27.5	28.0
3	30.5	29.5	30.0	30.5	29.5	30.0	32.5	31.5	32.0	28.5	27.0	28.0
4	30.0	29.5	29.5	30.5	29.5	30.0	32.5	31.5	32.0	28.5	27.5	28.0
5	30.0	29.0	29.0	30.5	29.5	30.0	32.5	31.0	32.0	28.0	27.5	27.5
6	29.5	27.5	28.5	30.5	29.5	30.0	32.0	31.0	31.5	27.5	27.0	27.0
7	30.5	27.5	29.0	29.0	27.0	28.5	32.0	30.5	31.5	27.5	26.5	27.0
8	30.0	28.5	29.0	29.0	27.5	28.5	32.0	31.0	31.5	29.0	27.0	27.5
9	29.5	28.5	29.5	29.5	28.0	29.0	32.5	30.5	31.5	29.0	28.0	28.0
10	29.5	29.0	29.5	30.0	28.5	29.0	32.5	31.0	32.0	29.0	28.0	28.5
11	29.5	29.0	29.5	30.0	28.5	29.0	32.5	31.5	32.0	29.0	28.0	28.5
12	29.0	28.5	29.0	30.5	29.5	30.0	32.0	31.0	31.5	29.0	28.0	28.5
13	29.0	28.5	29.0	31.5	29.5	30.0	31.5	31.0	31.0	29.0	28.0	28.5
14	29.0	27.0	28.0	30.5	29.5	30.0	31.0	31.0	31.0	29.0	28.0	28.5
15	29.0	26.5	28.5	31.5	29.0	30.0	32.0	30.5	31.0	29.0	28.0	28.5
16	29.5	27.5	28.5	32.0	30.0	30.5	32.5	31.0	31.5	28.5	28.0	28.5
17	30.5	28.0	29.5	31.0	30.0	30.5	32.5	31.0	31.5	29.0	28.0	28.5
18	30.5	29.0	30.0	31.0	30.0	30.5	32.0	30.0	30.5	29.0	28.0	28.0
19	29.5	29.0	29.5	31.0	30.0	30.5	31.5	30.0	30.5	28.0	27.5	28.0
20	29.5	28.0	28.5	31.0	30.0	30.5	32.0	30.0	30.5	27.5	26.5	27.5
21	29.5	27.5	28.5	31.0	30.5	30.5	31.0	29.5	30.0	28.5	27.0	27.5
22	28.0	27.0	27.5	30.5	30.0	30.5	32.0	30.0	30.5	27.5	26.0	27.0
23	28.5	25.0	27.0	31.0	30.5	30.5	31.0	30.0	30.5	27.5	26.5	27.0
24	29.5	28.0	29.0	31.5	30.5	31.0	32.5	30.5	31.0	26.5	25.5	26.0
25	29.0	28.0	28.5	32.0	31.0	31.5	32.0	30.5	31.0	27.0	26.0	26.5
26	30.5	28.5	29.5	32.5	31.0	31.5	31.5	31.0	31.0	27.0	25.5	26.0
27	31.0	30.0	30.5	32.5	31.0	32.0	31.5	30.5	31.0	26.5	26.0	26.5
28	30.5	29.5	30.0	32.5	31.5	32.0	31.0	30.0	30.5	26.5	25.5	26.0
29	31.0	29.5	30.0	33.0	31.5	32.5	31.0	30.0	30.5	26.5	25.5	26.0
30	30.5	30.0	30.0	33.5	32.0	32.5	30.0	29.5	29.5	26.0	25.0	25.5
31	---	---	---	33.0	31.5	32.0	29.0	28.5	29.0	---	---	---
MONTH	31.0	25.0	29.0	33.5	27.0	30.5	33.5	28.5	31.0	29.5	25.0	27.5
YEAR	33.5	5.5	20.0									

323704087542400 TTW DEMOPOLIS LAKE ABOVE RATTLESNAKE BEND SR 12CA

DATE	TIME	STREAM FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (LEFT) (MG/L)	SEDI-MENT, SUS-PENDED (CENTER) (MG/L)	SEDI-MENT, SUS-PENDED (RIGHT) (MG/L)	SEDI-MENT, SUS-PENDED (TOTAL) (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
JAN							
20...	1510	70200	258	257	340	285	54000
21...	1300	75100	248	306	324	293	59400
22...	1605	61900	201	168	154	174	29100
23...	1030	58400	131	116	158	135	21300

DATE	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
JAN								
23...	25.0	<1	1	5	19	36	51	66
23...	50.0	--	<1	7	92	96	97	97
23...	75.0	<1	6	89	99	100	--	--

323653087540800 TTW DEMOPOLIS LAKE RATTLESNAKE BEND SR RB1

DATE	TIME	STREAM FLOW, INSTAN-TANEOUS (CFS)	SEDIMENT, SUSPENDED (LEFT) (MG/L)	SEDIMENT, SUSPENDED (CENTER) (MG/L)	SEDIMENT, SUSPENDED (RIGHT) (MG/L)	SEDIMENT, SUSPENDED (TOTAL) (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
JAN							
20...	1435	21700	380	340	294	338	19800
21...	1410	28300	230	224	246	233	17800
22...	1720	22100	126	142	132	133	7940
23...	1135	23200	111	119	128	119	7450

DATE	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
JAN								
23...	25.0	1	6	54	97	98	98	99
23...	50.0	--	<1	2	85	98	98	99
23...	75.0	1	4	10	19	22	28	36

323642087541800 TTW DEMOPOLIS LAKE RATTLESNAKE CUT SR 12CB

DATE	TIME	STREAM FLOW, INSTAN-TANEOUS (CFS)	SEDIMENT, SUSPENDED (LEFT) (MG/L)	SEDIMENT, SUSPENDED (CENTER) (MG/L)	SEDIMENT, SUSPENDED (RIGHT) (MG/L)	SEDIMENT, SUSPENDED (TOTAL) (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
JAN							
20...	1020	48500	362	398	895	552	72300
21...	1135	46800	267	383	467	405	51200
22...	1500	39600	147	184	301	211	22600
23...	0920	35200	123	168	153	148	14100

DATE	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
JAN								
23...	25.0	1	2	11	36	40	42	44
23...	50.0	<1	1	2	3	5	7	11
23...	75.0	<1	5	82	100	--	--	--

02466998 TOMBIGBEE RIVER ABOVE DEMOPOLIS LOCK AND DAM, AL

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
13...	1410	--	156	7.00	28.0	32.0	5.4	--
13...	1411	5.00	158	7.00	27.5	--	6.8	--
13...	1412	10.0	157	6.90	27.0	--	7.3	--
13...	1413	15.0	157	6.80	26.5	--	7.5	--
13...	1414	20.0	155	6.90	26.5	--	6.8	--
13...	1415	25.0	155	6.90	26.5	--	6.9	--
13...	1416	30.0	154	6.80	26.5	--	6.9	--
13...	1417	35.0	149	6.90	26.0	--	6.8	--
13...	1418	40.0	147	7.00	26.0	--	6.7	--
13...	1419	45.0	146	7.00	26.0	--	6.7	--
13...	1420	50.0	143	7.00	26.0	--	6.4	--
13...	1421	55.0	142	7.00	26.0	--	6.6	--
13...	1422	60.0	140	7.10	25.5	--	5.9	--
JUL								
15...	1600	--	218	7.50	30.5	21.7	7.3	98
15...	1601	5.00	222	7.50	30.5	--	7.3	--
15...	1602	10.0	222	7.40	28.0	--	7.1	--
15...	1603	15.0	222	7.30	28.0	--	6.9	--
15...	1604	20.0	222	7.20	28.0	--	6.7	--
15...	1605	25.0	220	7.10	27.5	--	6.7	--
15...	1606	30.0	220	7.10	27.5	--	6.3	--
15...	1607	35.0	219	7.10	27.5	--	6.3	--
15...	1608	40.0	219	7.10	27.5	--	6.3	--
15...	1609	45.0	219	7.00	27.0	--	6.3	--
15...	1610	50.0	219	7.00	27.0	--	6.2	--
15...	1611	55.0	219	7.00	26.5	--	5.7	--
15...	1612	60.0	223	6.90	26.0	--	3.3	--

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM, AL

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT							
23...	1020	2000	235	7.80	22.5	8.6	98
FEB							
12...	1000	35600	130	7.20	10.5	11.8	105
APR							
16...	1030	21300	132	7.00	17.0	10.0	104
AUG							
13...	1020	5340	240	7.00	30.5	4.0	54

DATE	TIME	TURBIDITY (FTU)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO
OCT											
23...	1020	8.8	8	6	69	20	18	5.7	21	39	1
FEB											
12...	1000	33	230	580	37	10	11	2.2	4.3	20	0.3
APR											
16...	1030	9.0	21	18	49	19	14	3.5	8.4	26	0.5
AUG											
13...	1020	3.7	43	18	83	32	22	6.7	21	35	1

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE WATER WH IT FIELD MG/L AS HCO3	CARBONATE WATER WH IT FIELD MG/L AS CO3	ALKALINITY WAT WH TOT IT FIELD MG/L AS CACO3	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
OCT											
23...	2.8	58	0	47	41	16	0.20	2.6	157	138	0.21
FEB											
12...	1.3	31	0	25	10	[illegible].1	0.10	6.5	76	59	0.10
APR											
16...	1.4	38	0	31	24	[illegible]	<0.10	6.9	90	87	0.12
AUG											
13...	2.8	64	0	52	47	16	0.10	4.3	165	151	0.22

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM, AL--Continued

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHOROUS DIS-SOLVED (MG/L AS P)	PHOS-PHOROUS ORTHO, DIS-SOLVED (MG/L AS P)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT										
23...	848	0.230	<0.010	0.50	0.030	0.030	0.020	9	49	92
FEB										
12...	7310	0.360	0.060	0.30	0.050	0.040	0.020	60	5770	82
APR										
16...	5180	0.270	0.050	1.1	0.040	0.020	<0.010	28	1610	92
AUG										
13...	2380	0.110	0.020	0.50	0.030	0.020	<0.010	16	231	99

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT										
23...	30	1	36	<0.5	1	<1	<3	3	45	<5
FEB										
12...	50	<1	20	<0.5	<1	<1	<3	1	100	<5
APR										
16...	70	<1	30	<0.5	1	<1	<3	3	210	<5
AUG										
13...	60	1	36	<0.5	<1	<1	<3	3	120	<5

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT										
23...	9	10	0.3	<10	<1	<1	<1.0	100	<6	61
FEB										
12...	<4	21	<0.1	<10	3	<1	1.0	62	<6	11
APR										
16...	<4	53	<0.1	<10	<1	<1	<1.0	80	<6	19
AUG										
13...	<4	41	<0.1	<10	5	<1	<1.0	130	<6	<3

DATE	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
APR								
16...	<0.4	<0.4	2.0	<0.4	1.6	<0.4	0.04	0.07
AUG								
13...	0.8	<0.4	3.8	<0.4	3.0	<0.4	0.06	0.10

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM, AL--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	185	134	119	116	---	133	165	180	175	232	253
2	215	187	140	134	113	133	141	165	182	180	---	245
3	221	183	122	132	123	133	135	160	155	176	208	239
4	243	198	122	130	120	104	135	165	155	191	210	243
5	242	200	125	135	172	130	138	160	150	185	209	240
6	247	200	---	174	170	132	151	171	151	194	243	---
7	240	260	150	174	150	100	150	160	150	196	242	260
8	252	208	158	205	150	120	150	168	190	188	239	260
9	231	208	156	170	150	101	150	176	187	185	246	255
10	232	211	149	174	171	100	149	160	188	192	240	245
11	---	230	155	171	170	108	149	170	190	205	236	260
12	230	230	134	177	132	98	148	165	150	215	242	262
13	225	205	140	180	138	104	151	147	180	211	243	240
14	235	180	152	185	148	112	147	165	170	209	245	243
15	230	186	160	164	150	108	131	159	164	209	257	244
16	242	184	165	190	130	130	151	155	176	210	255	265
17	237	175	168	164	122	120	152	154	175	208	252	270
18	220	185	157	139	124	119	151	156	176	202	249	267
19	210	168	160	142	120	118	151	155	160	200	251	270
20	264	186	165	140	134	109	152	161	165	201	250	265
21	240	188	165	120	131	124	152	161	167	205	249	260
22	230	198	175	124	134	122	165	160	164	201	251	255
23	230	204	150	122	132	124	175	160	154	203	298	257
24	236	185	160	114	141	125	145	168	164	205	250	235
25	262	155	158	115	142	127	165	170	170	204	245	240
26	260	174	160	108	140	---	158	168	175	205	248	242
27	250	155	145	110	139	130	159	167	170	207	256	240
28	255	153	150	119	130	132	159	165	172	206	245	242
29	245	130	147	123	---	128	142	170	170	207	245	235
30	215	133	149	118	---	132	145	170	180	206	271	233
31	205	---	120	116	---	130	---	---	---	205	258	---
MEAN	235	188	150	145	139	119	149	163	169	200	246	251

WTR YR 1987 MEAN 180 MAX 298 MIN 98

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.5	21.0	15.5	10.0	9.0	---	17.0	23.0	29.0	30.0	32.0	32.0
2	29.5	21.5	16.0	10.0	10.0	11.5	17.0	24.0	29.0	30.0	---	31.0
3	29.5	21.0	15.0	10.0	10.0	11.5	16.0	23.0	30.0	30.0	31.0	30.0
4	29.5	21.0	15.0	9.0	10.0	11.5	16.0	24.0	30.0	30.0	32.0	30.0
5	29.5	22.0	15.0	9.5	10.0	11.0	16.0	25.0	30.0	30.0	32.0	30.0
6	28.0	21.0	---	9.0	10.0	11.5	15.0	25.0	29.5	30.0	31.5	---
7	27.0	22.0	14.0	13.0	10.0	11.0	15.0	24.0	29.0	30.0	33.0	30.0
8	27.5	22.0	14.5	8.0	10.0	11.5	15.0	24.5	29.0	30.0	32.5	30.0
9	28.0	22.0	14.5	10.0	10.0	11.5	15.5	25.0	29.0	30.0	32.5	31.0
10	27.5	21.5	14.0	9.0	10.5	11.5	16.0	24.0	29.0	30.0	31.5	30.0
11	---	21.0	14.5	9.0	10.0	11.5	16.0	25.5	29.0	32.0	31.0	30.0
12	27.0	21.0	14.0	9.5	11.0	12.0	16.0	25.0	30.0	32.5	32.0	30.0
13	27.0	19.5	14.0	9.5	12.0	12.0	17.0	25.0	29.5	33.0	32.0	30.0
14	26.0	19.0	12.0	9.0	12.0	12.5	17.0	25.0	29.0	32.5	31.0	30.0
15	25.0	18.0	12.0	9.0	12.0	12.0	17.0	25.0	29.0	32.0	32.0	30.0
16	25.0	18.0	12.5	9.0	12.0	13.0	17.0	25.0	29.0	32.5	32.0	30.0
17	25.0	18.0	12.0	9.5	12.0	12.5	17.0	25.0	29.0	32.5	32.0	30.0
18	25.0	18.5	12.0	10.0	11.0	12.5	18.0	25.0	29.0	31.0	32.0	30.0
19	24.0	18.5	12.0	10.0	10.0	12.5	18.0	25.5	30.0	31.5	32.0	30.0
20	24.0	18.5	11.5	10.0	11.5	15.0	21.0	26.0	30.0	31.5	33.0	30.0
21	24.0	18.0	11.5	10.0	11.0	15.0	21.0	26.0	29.5	32.0	33.0	30.0
22	24.0	18.5	12.0	9.5	10.0	15.5	21.0	25.0	29.0	32.0	34.0	29.0
23	24.0	18.0	11.5	9.5	11.0	16.0	21.0	25.0	29.0	32.0	33.0	29.0
24	24.0	18.0	12.0	9.0	10.5	16.0	22.0	27.0	30.0	32.0	33.0	28.0
25	23.0	18.0	11.0	9.0	11.0	16.0	23.0	27.0	30.0	32.0	33.0	28.0
26	23.0	17.5	11.0	8.0	10.5	---	21.5	27.0	30.0	32.0	33.0	28.0
27	24.0	17.0	11.0	9.0	12.0	17.0	22.5	27.0	30.0	32.0	32.0	28.0
28	22.0	15.0	11.0	10.0	11.0	17.	22.5	27.0	30.0	31.5	33.0	28.0
29	22.0	16.0	10.0	12.0	---	18.	23.0	27.0	30.0	33.0	33.0	28.0
30	21.0	16.0	9.5	10.0	---	17	22.0	27.0	30.0	33.0	33.0	28.0
31	22.0	---	9.5	10.0	---	17	---	---	---	.0	33.0	---
MEAN	25.5	19.0		9.5	10.5	13.	18.5	25.5	29.5	31.5	32.5	29.5

WTR YR 1987 MEAN 2: MAX 34.0 MIN 8.0

page 141 follows

APPENDIX C

DISPOSAL AREA DATA

page 143 follows

APPENDIX C

DISPOSAL AREA DATA

DESCRIPTIONS OF WELLS

page 145 follows

DESCRIPTIONS OF DISPOSAL AREA WELLS

LOCAL NUMBER	OWNER	LAND NET LOCATION	DATE COMPLETED	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	CASING DIAM-ETER (INCHES)
		TISHOMINGO COUNTY				
J071	USCE 1704-A	SENES17T05SR10E	02/13/1980	440.00	32.0	4.00
J072	USCE 1704-B	SENES17T05SR10E	02/14/1980	440.00	21.0	4.00

page 147 follows

APPENDIX C

DISPOSAL AREA DATA

WATER-QUALITY FIELD DETERMINATIONS

page 149 follows

DISPOSAL AREA WELLS

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)
TISHOMINGO COUNTY							
J071 USCE 1704-A	343855088155380	12-11-86	0900	21.45	285	4.80	--
		06-02-87	0745	21.33	360	4.80	16.0
J072 USCE 1704-B	343855088155381	12-11-86	0847	11.82	910	5.70	--
		06-02-87	0750	14.86	890	5.60	16.0

APPENDIX COE

U.S. ARMY CORPS OF ENGINEERS DATA

page COE 3 follows

APPENDIX COE

U.S. ARMY CORPS OF ENGINEERS DATA

SURFACE-WATER CHEMISTRY

page COE-5 follows

03592824 TENN-TOM WATERWAY AT CROSS ROADS, MS

SURFACE WATER

DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/04/87	9:10	4.5	26	0.189	0.07	0.34	0.28	0.259	0.06	< 0.01	< 0.01	65	65	25	25	10
07/20/87	9:00	3.8	103	0.123	0.02	0.16	0.14	0.223	0.01	< 0.01	< 0.01	33	33	19	19	10

343140088192235 TENN-TOM WATERWAY BAY SPRINGS LAKE NAVAGATION MILE 412.3

SURFACE WATER

DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/04/87	11:50	0.5	40	0.133	0.1	0.1	< 0.01	0.233	0.01	0.01	< 0.01	< 2	< 2	< 2	< 2	10
07/20/87	11:30	1.3	59	0.141	0.12	0.37	0.25	0.181	< 0.01	< 0.01	< 0.01	19	19	195	195	5

02430005 TENN-TOM WATERWAY BL BAY SPRINGS LOCK & DAM, MS

SURFACE WATER

DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/04/87	13:30	0.6	31	0.125	0.04	0.14	0.1	0.165	0.01	0.01	< 0.01	< 2	< 2	< 2	< 2	10
07/20/87	14:30	1.2	59	0.104	0.12	0.26	0.14	0.154	< 0.01	< 0.01	< 0.01	21	21	52	52	10

02430100 MACKEYS CREEK NR MOORES MILL, MS

SURFACE WATER

DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR

NOT SAMPLED

342201088242935 TENN-TOM WATERWAY LOCK "D" POOL SEDIMENTATION RANGE 1AD

SURFACE WATER DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/04/87	15:30	0.6	14	0.091	0.01	0.35	0.34	0.101	0.05	0.01	< 0.01	37	37	5	5	10
07/20/87	16:00	1.8	48	0.246	0.12	0.33	0.21	0.316	0.01	< 0.01	< 0.01	154	25	151	151	10

02436500 TOWN CREEK NR NETTLETON, MS

SURFACE WATER DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR

NOT SAMPLED

340103088285435 TENN-TOM WATERWAY LOCK "A" POOL SEDIMENTATION RANGE 1AA

SURFACE WATER DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/07/87	10:15	9.4	28	0.123	0.01	0.59	0.58	0.133	0.05	0.05	< 0.01	341	341	32	32	25
07/21/87	9:00	5.3	37	0.094	0.05	0.1	0.05	0.144	0.01	< 0.01	< 0.01	54	53	8	8	10

02437000 TOMBIGBEE RIVER NR AMORY, MS

SURFACE WATER DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR

NOT SAMPLED

335008088311335 TENN-TOM WATERWAY ABERDEEN LAKE SEDIMENTATION RANGE 1A

SURFACE WATER			ALKA-LINITY, CARBON-ATE IT-FLD	NITRO-GEN, NO2+NO3 TOTAL	NITRO-GEN, AMMONIA TOTAL	NITRO-GEN, KJELDAHL, TOTAL	NITRO-GEN ORGANIC TOTAL	NITRO-GEN IN-ORGANIC TOTAL	PHOS-PHORUS, TOTAL	PHOS-PHORUS, DIS-SOLVED	PHOS-PHORUS, ORTHO, TOTAL	IRON, TOTAL	IRON, DIS-SOLVED	MANGA-NESE, TOTAL	MANGA-NESE, DIS-SOLVED	
DATE	TIME	TURBID-ITY (NTU)	(MG/L - CACO3)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(UG/L AS FE)	(UG/L AS FE)	(UG/L AS MN)	(UG/L AS MN)	TRUE COLOR
05/05/87	16:00	6	37	0.101	0.14	0.51	0.37	0.241	0.06	0.03	< 0.01	35	35	< 2	< 2	15
07/21/87	13:30	5.3	76	0.005	0.08	0.09	0.01	0.085	0.03	< 0.01	0.01	196	23	97	10	15

02437101 TENN-TOM WATERWAY BL ABERDEEN LOCK & DAM

SURFACE WATER			ALKA-LINITY, CARBON-ATE IT-FLD	NITRO-GEN, NO2+NO3 TOTAL	NITRO-GEN, AMMONIA TOTAL	NITRO-GEN, KJELDAHL, TOTAL	NITRO-GEN ORGANIC TOTAL	NITRO-GEN IN-ORGANIC TOTAL	PHOS-PHORUS, TOTAL	PHOS-PHORUS, DIS-SOLVED	PHOS-PHORUS, ORTHO, TOTAL	IRON, TOTAL	IRON, DIS-SOLVED	MANGA-NESE, TOTAL	MANGA-NESE, DIS-SOLVED	
DATE	TIME	TURBID-ITY (NTU)	(MG/L - CACO3)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(UG/L AS FE)	(UG/L AS FE)	(UG/L AS MN)	(UG/L AS MN)	TRUE COLOR
05/05/87	17:30	4.1	53	0.049	0.2	0.45	0.25	0.249	0.05		< 0.01	62	62	< 2	< 2	15
07/21/87	14:45	6.3	70	0.011	0.04	0.32	0.28	0.351	0.01	< 0.01	< 0.01	17	17	11	11	15

02437600 JAMES CREEK AT ABERDEEN, MS

SURFACE WATER			ALKA-LINITY, CARBON-ATE IT-FLD	NITRO-GEN, NO2+NO3 TOTAL	NITRO-GEN, AMMONIA TOTAL	NITRO-GEN, KJELDAHL, TOTAL	NITRO-GEN ORGANIC TOTAL	NITRO-GEN IN-ORGANIC TOTAL	PHOS-PHORUS, TOTAL	PHOS-PHORUS, DIS-SOLVED	PHOS-PHORUS, ORTHO, TOTAL	IRON, TOTAL	IRON, DIS-SOLVED	MANGA-NESE, TOTAL	MANGA-NESE, DIS-SOLVED	
DATE	TIME	TURBID-ITY (NTU)	(MG/L - CACO3)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(UG/L AS FE)	(UG/L AS FE)	(UG/L AS MN)	(UG/L AS MN)	TRUE COLOR

NOT SAMPLED

02439600 BUTTAHATCHEE RIVER NR KOLOLA SPRINGS, MS

SURFACE WATER			ALKA-LINITY, CARBON-ATE IT-FLD	NITRO-GEN, NO2+NO3 TOTAL	NITRO-GEN, AMMONIA TOTAL	NITRO-GEN, KJELDAHL, TOTAL	NITRO-GEN ORGANIC TOTAL	NITRO-GEN IN-ORGANIC TOTAL	PHOS-PHORUS, TOTAL	PHOS-PHORUS, DIS-SOLVED	PHOS-PHORUS, ORTHO, TOTAL	IRON, TOTAL	IRON, DIS-SOLVED	MANGA-NESE, TOTAL	MANGA-NESE, DIS-SOLVED	
DATE	TIME	TURBID-ITY (NTU)	(MG/L - CACO3)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(UG/L AS FE)	(UG/L AS FE)	(UG/L AS MN)	(UG/L AS MN)	TRUE COLOR

NOT SAMPLED

333927088304935 TENN-TOM WATERWAY COLUMBUS LAKE BUTTAHATCHEE R BENDWAY 26A

SURFACE WATER DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/06/87	15:00	7.5	70	0.052	0.09	2.99	2.9	0.122	< 0.01	< 0.01	< 0.01	44	44	9	< 2	15
07/22/87	14:30	8.3	65	0.133	0.14	0.19	0.05	0.273	0.03	< 0.01	< 0.01	33	33	45	45	10

02441000 TIBBEE CREEK NR TIBBEE, MS

SURFACE WATER DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR

NOT SAMPLED

3331190882914 TENN-TOM WATERWAY COLUMBUS LAKE SEDIMENTATION RANGE 1A

SURFACE WATER DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/06/87	16:00	8.2	31	0.09	0.06	0.7	0.64	0.15	0.15	0.02	< 0.01	115	115	< 2	< 2	15
07/22/87	16:00	3.1	65	0.138	0.04	0.15	0.11	0.178	0.03	< 0.01	< 0.01	14	14	9	9	5

02441391 TOMBIGBEE RIVER BL COLUMBUS LOCK & DAM, MS

SURFACE WATER DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/11/87	12:00		49	0.061	0.07	0.31	0.24	0.131	0.07		< 0.01	70	45	< 2	< 2	20
07/13/87	12:00	8.1	59	0.03	0.07	0.25	0.18	0.1	0.04	0.02	0.03	35	28	7	4	20

02441498 TOMBIGBEE RIVER COLUMBUS BEND SR 11B AT COLUMBUS, MS

DATE	TIME	SURFACE WATER	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/11/87	13:15			48	0.005	0.03	0.21	0.18	0.035	0.07		0.01	109	109	< 2	< 2	15
07/13/87	13:05		5.7	76	0.011	0.07	0.19	0.12	0.081	0.02	0.01	0.03	27	18	6	5	20

02443500 LUXAPALLILA CREEK NR COLUMBUS, MS

DATE	TIME	SURFACE WATER	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR

NOT SAMPLED

02443610 TOMBIGBEE RIVER AT PRATT CAMP SR 5HB BL COLUMBUS, MS

DATE	TIME	SURFACE WATER	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/12/87	08:30		1.3	53	0.015	0.03	0.56	0.53	0.045	0.1		< 0.01	159	159	8	8	20

02444158 TOMBIGBEE RIVER AB ALICEVILLE LOCK & DAM, AL

DATE	TIME	SURFACE WATER	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/12/87	10:25		7.2	53	0.064	0.02	0.4	0.38	0.084	0.07	< 0.02	< 0.01	68	68	13	< 2	15
07/13/87	12:25		5.1	42	0.194	0.08	0.4	0.32	0.274	0.03	0.01	0.02	< 1	< 1	20	20	15

02444161 TOMBIGBEE RIVER BL ALICEVILLE LOCK & DAM, AL

SURFACE WATER

DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/12/87	12:05		50	0.058	0.02	0.27	0.25	0.078	0.09	0.09	< 0.01	95	95	< 2	< 2	15
07/14/87	12:10	1.7	44	0.147	0.08	0.48	0.4	0.227	0.05	< 0.01	0.02	< 1	< 1	5	< 1	10

02444210 TOMBIGBEE RIVER BIG CREEK BEND NR PICKENSVILLE, AL

SURFACE WATER

DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/12/87	12:55		40	0.005	0.02	0.39	0.37	0.025	0.1	0.02	0.01	509	509	477	477	20
07/14/87	12:45	9.3	31	0.286	0.06	0.44	0.38	0.346	0.05	< 0.01	0.02	24	24	475	475	15

02446500 SIPSEY RIVER NR ELROD, AL

SURFACE WATER

DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR

NOT SAMPLED

02447010 TOMBIGBEE RIVER AT COOKS BENDWAY NR WARSAW, AL

SURFACE WATER

DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/12/87	15:35		59	0.051	0.03	0.32	0.29	0.081	0.07		< 0.01	127	127	< 2	< 2	25
07/14/87	16:05	5.3	65	0.184	0.15	0.46	0.31	0.334	0.04	< 0.01	0.02	38	38	65	65	20

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02447020 TOMBIGBEE RIVER AB GAINESVILLE LOCK & DAM, AL

SURFACE WATER DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/13/87	09:00	4	63	0.031	0.03			0.061	< 0.01	< 0.01	< 0.01	84	84	< 2	< 2	15
07/15/87	09:40	3.8	70	0.003	0.04	0.05	0.01	0.043	0.01	< 0.01	0.02	37	5	9	6	15

02448500 NOXUBEE RIVER NR GEIGER, AL

SURFACE WATER DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR

NOT SAMPLED

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL

SURFACE WATER DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/13/87	10:45	2	59	0.04	0.03	0.23	0.2	0.07	0.09		< 0.01	98	98	< 2	< 2	15
07/15/87	12:00	3.5	81	0.186	0.05	0.15	0.1	0.236	0.01	< 0.01	0.01	25	25	7	4	20

02466998 TOMBIGBEE RIVER AB DEMOPOLIS LOCK & DAM, AL

SURFACE WATER DATE	TIME	TURBIDITY (NTU)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	NITROGEN ORGANIC TOTAL (MG/L AS N)	NITROGEN INORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	TRUE COLOR
05/13/87	14:10	1.4	59	0.178	0.02	0.3	0.28	0.198	0.07	0.01	< 0.01	2	< 2	< 2	< 2	15
07/15/87	16:00	3.8	76	0.449	0.07	0.16	0.09	0.519	0.01	0.01	0.02	5	5	8	7	10

APPENDIX COE

U.S. ARMY CORPS OF ENGINEERS DATA

GROUND-WATER CHEMISTRY

page COE-15 follows

343855088155380 DISPOSAL AREA WELL USCE 1704 A

GROUND WATER

DATE	TIME	DEPTH	TRUE COLOR	TOTAL ALKA-LINITY (MG/L)	DIS-SOLVED NO3 + NO2 (MG/L)	DIS-SOLVED CAL-CIUM (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTAS-SIUM (MG/L)	DIS-SOLVED SUL-FATE (MG/L)	TOTAL IRON (UG/L)	TOTAL MANGANESE (UG/L)
12/11/86	09:00	0	10	18	0.022	25	11	8.3	3.7	112	24100	3120
06/02/87	07:45	0	10	22	0.019	12	6	12	2.6	107	22	2123

343855088155381 DISPOSAL AREA WELL USCE 1704-B

GROUND WATER

DATE	TIME	DEPTH	TRUE COLOR	TOTAL ALKA-LINITY (MG/L)	DIS-SOLVED NO3 + NO2 (MG/L)	DIS-SOLVED CAL-CIUM (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTAS-SIUM (MG/L)	DIS-SOLVED SUL-FATE (MG/L)	TOTAL IRON (UG/L)	TOTAL MANGANESE (UG/L)
12/11/86	08:47	0	10	37	0.011	93	25	6.2	6.9	315	70500	4260
06/02/87	07:50	0	5	53	0.399	44	14	7.6	6.6	223	57	4760

325150088092901 GROUND-WATER WELL USCE 134A

GROUND WATER

DATE	TIME	DEPTH	TRUE COLOR	TOTAL ALKA-LINITY (MG/L)	DIS-SOLVED NO3 + NO2 (MG/L)	DIS-SOLVED CAL-CIUM (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTAS-SIUM (MG/L)	DIS-SOLVED SUL-FATE (MG/L)	TOTAL IRON (UG/L)	DIS-SOLVED IRON (UG/L)	TOTAL MANGANESE (UG/L)
05/15/87	10:00	0	15	43	0.087	4.3	0.4	2.2	1	7.8	32	32	< 2

331351088175001 GROUND-WATER WELL USCE 122A

GROUND WATER

DATE	TIME	DEPTH	TRUE COLOR	TOTAL ALKA-LINITY (MG/L)	DIS-SOLVED NO3 + NO2 (MG/L)	DIS-SOLVED CAL-CIUM (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTAS-SIUM (MG/L)	DIS-SOLVED SUL-FATE (MG/L)	TOTAL IRON (UG/L)	TOTAL MANGANESE (UG/L)
05/14/87	08:55	0	15	164	0.182	0.6	0.3	64	2.5	7.2	2	< 2

344849088120401 GROUND-WATER WELL IUCA

GROUND WATER

DATE	TIME	DEPTH	TRUE COLOR	TOTAL ALKA-LINITY (MG/L)	DIS-SOLVED NO3 + NO2 (MG/L)	DIS-SOLVED CAL-CIUM (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTAS-SIUM (MG/L)	DIS-SOLVED SUL-FATE (MG/L)	TOTAL IRON (UG/L)	TOTAL MANGANESE (UG/L)
06/02/87	17:05	360	5	22	0.131	2	1	1.3	0.7	3.2	< 2	8

344711088114802 GROUND-WATER WELL MIDWAY-PLEASANT HILL

GROUND WATER

DATE	TIME	DEPTH	TRUE COLOR	TOTAL ALKA-LINITY (MG/L)	DIS-SOLVED NO3 + NO2 (MG/L)	DIS-SOLVED CAL-CIUM (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTAS-SIUM (MG/L)	DIS-SOLVED SUL-FATE (MG/L)	TOTAL IRON (UG/L)	TOTAL MANGANESE (UG/L)
06/02/87	17:05	400	10	28	0.007	2	1	2.1	1.7	6.2	17	1070

344218088184302 GROUND-WATER WELL USCE 22B

GROUND WATER

DATE	TIME	DEPTH	TRUE COLOR	TOTAL ALKA-LINITY (MG/L)	DIS-SOLVED NO3 + NO2 (MG/L)	DIS-SOLVED CAL-CIUM (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTAS-SIUM (MG/L)	DIS-SOLVED SUL-FATE (MG/L)	TOTAL IRON (UG/L)	TOTAL MANGANESE (UG/L)
06/11/87	10:15	240	10	38	0.008	4	1	3.7	1.7	15	1363	143

340409088243802 GROUND-WATER WELL USCE 89B

GROUND WATER

DATE	TIME	DEPTH	TRUE COLOR	TOTAL ALKA-LINITY (MG/L)	DIS-SOLVED NO3 + NO2 (MG/L)	DIS-SOLVED CAL-CIUM (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTAS-SIUM (MG/L)	DIS-SOLVED SUL-FATE (MG/L)	TOTAL IRON (UG/L)	TOTAL MANGANESE (UG/L)
06/03/87	09:55	45	10	47	0.021	5	1	4	3.8	5.7	13	653

344217088302801 GROUND-WATER WELL NEW CANDLER

GROUND WATER

DATE	TIME	DEPTH	TRUE COLOR	TOTAL ALKA-LINITY (MG/L)	DIS-SOLVED NO3 + NO2 (MG/L)	DIS-SOLVED CAL-CIUM (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTAS-SIUM (MG/L)	DIS-SOLVED SUL-FATE (MG/L)	TOTAL IRON (UG/L)	TOTAL MANGANESE (UG/L)
06/03/87	07:39	460	10	131	0.196	18	3	9.6	4	26	749	194

344638088200103 GROUND-WATER WELL USCE 12B

GROUND WATER

DATE	TIME	DEPTH	TRUE COLOR	TOTAL ALKA-LINITY (MG/L)	DIS-SOLVED NO3 + NO2 (MG/L)	DIS-SOLVED CAL-CIUM (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTAS-SIUM (MG/L)	DIS-SOLVED SUL-FATE (MG/L)	TOTAL IRON (UG/L)	TOTAL MANGANESE (UG/L)
06/02/87	13:55	150	10	56	0.032	9	1	4.6	3.2	39	17	721

345033088192201 GROUND-WATER WELL BURNSVILLE

GROUND WATER

DATE	TIME	DEPTH	TRUE COLOR	TOTAL ALKA-LINITY (MG/L)	DIS-SOLVED NO3 + NO2 (MG/L)	DIS-SOLVED CAL-CIUM (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTAS-SIUM (MG/L)	DIS-SOLVED SUL-FATE (MG/L)	TOTAL IRON (UG/L)	TOTAL MANGANESE (UG/L)
06/02/87	14:55	280	25	31	0.09	4	1	4.7	2.5	8.2	16	934

331351088175002 GROUND-WATER WELL USCE 122B

GROUND WATER DATE	TIME	DEPTH	TRUE COLOR	TOTAL ALKA-LINITY (MG/L)	DIS-SOLVED NO3 + NO2 (MG/L)	DIS-SOLVED CAL-CIUM (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTAS-SIUM (MG/L)	DIS-SOLVED SUL-FATE (MG/L)	TOTAL IRON (UG/L)	TOTAL MANGANESE (UG/L)
05/14/87	11:11	0	5	150	0.01	6.4	1.2	5.4	1.7	6.7	1523	62

325215088111301 GROUND-WATER WELL USCE 132A

GROUND WATER DATE	TIME	DEPTH	TRUE COLOR	TOTAL ALKA-LINITY (MG/L)	DIS-SOLVED NO3 + NO2 (MG/L)	DIS-SOLVED CAL-CIUM (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTAS-SIUM (MG/L)	DIS-SOLVED SUL-FATE (MG/L)	TOTAL IRON (UG/L)	TOTAL MANGANESE (UG/L)
05/14/87	15:00	0	10	381	0.338	5.9	2	522	7.2	4.7	87	< 2

333355088282503 GROUND-WATER WELL USCE 114C

GROUND WATER DATE	TIME	DEPTH	TRUE COLOR	TOTAL ALKA-LINITY (MG/L)	DIS-SOLVED NO3 + NO2 (MG/L)	DIS-SOLVED CAL-CIUM (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTAS-SIUM (MG/L)	DIS-SOLVED SUL-FATE (MG/L)	TOTAL IRON (UG/L)	TOTAL MANGANESE (UG/L)
06/03/87	14:30	92	10	146	0.025	7	1	41	3.8	4.7	325	204

340409088243801 GROUND-WATER WELL USCE 89A

GROUND WATER DATE	TIME	DEPTH	TRUE COLOR	TOTAL ALKA-LINITY (MG/L)	DIS-SOLVED NO3 + NO2 (MG/L)	DIS-SOLVED CAL-CIUM (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTAS-SIUM (MG/L)	DIS-SOLVED SUL-FATE (MG/L)	TOTAL IRON (UG/L)	TOTAL MANGANESE (UG/L)
06/03/87	10:55	166	15	28	0.009	3	1	2.8	1.9	6.2	17	332

APPENDIX COE

U.S. ARMY CORPS OF ENGINEERS DATA

SEDIMENT CHEMISTRY

page COE - 21 follows

3592824 TENN-TOM WATERWAY AT CROSS ROADS, MS

SEDIMENT

DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)

NOT SAMPLED

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)

343140088192235 TENN-TON WATERWAY BAY SPRINGS LAKE NAVIGATION MILE 412.3

SEDIMENT

DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)
07/20/87	11:30	4.9	25	0.71	6.31	1.2	4.4	4.2	0.05	0.6	< 0.2	< 0.2	< 0.19	< 0.15	< 0.16	< 0.1	< 0.12	< 0.15	< 0.2	< 1.4	< 2	< 0.1	< 1.2

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)
< 1	< 1	< 1	< 3	< 1	< 1	< 1	< 1.3	< 1	< 1	< 1	< .05

02430005 TENN-TOM WATERWAY BELOW BAY SPRINGS LAKE LOCK AND DAM, MS

SEDIMENT

DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)

NOT SAMPLED

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)

342201088242935 TENN-TOM WATERWAY LOCK "B" POOL SEDIMENTATION RANGE 1AD

SEDIMENT DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)
NOT SAMPLED																							

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)

34010308B285435 TENN-TOM WATERWAY LOCK "A" POOL SEDIMENTATION RANGE 1AA

SEDIMENT DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)
NOT SAMPLED																							

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)

3350080888311335 TENN-TOM WATERWAY ABERDEEN LAKE SEDIMENTATION RANGE 1A

SEDIMENT DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)
07/21/87	13:30	15	62	1.43	11	3.6	7.6	9.8	0.08	1	< 0.2	< 0.2	< 0.19	< 0.15	< 0.16	< 0.1	< 0.12	< 0.15	< 0.2	< 1.4	< 2	< 0.1	< 1.2

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)
< 1	< 1	< 1	< 3	< 1	< 1	< 1	< 1.3	< 1	< 1	< 1	< 0.05

02437101 TOMBIGBEE RIVER BELOW ADERDEEN LOCK AND DAM, MS

SEDIMENT DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)
NOT SAMPLED																							

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KS)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)

333927088304935 TTW COLUMBUS LAKE BUTTAHATCHEE R BENDWAY 26A

SEDIMENT DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)
07/22/87	14:30	4.9	26	< 0.5	6.7	1.4	4.8	4.8	0.03	0.5	< 0.2	< 0.2	< 0.19	< 0.15	< 0.16	< 0.1	< 0.12	< 0.15	< 0.2	< 1.4	< 2	< 0.1	< 1.2

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)
< 1	< 1	< 1	< 3	< 1	< 1	< 1	< 1.3	< 1	< 1	< 1	< 0.05

333119088291435 TTW COLUMBUS LAKE SEDIMENTATION RANGE 1A

SEDIMENT DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	D,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)
07/22/87	16:00	25	48	0.64	13	3.4	6.1	8.7	13.46	0.7	< 0.2	< 0.2	< 0.19	< 0.15	< 0.16	< 0.1	< 0.12	< 0.15	< 0.2	< 1.4	< 2	< 0.1	< 1.2

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)
< 1	< 1	< 1	< 3	< 1	< 1	< 1	< 1.3	< 1	< 1	< 1	0.11

02441391 TOMBIGBEE RIVER BELOW COLUMBUS LOCK AND DAM, MS

SEDIMENT

DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)
NOT SAMPLED																							

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)

02441498 TOMBIGBEE RIVER (COL. BEND. 11B) AT COLUMBUS, MS

SEDIMENT

DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)
07/13/87	13:05	2.2	58	1.95	12	3.9	9.6	13	0.12	0.3	< 0.2	< 0.2	< 0.19	< 0.15	< 0.16	< 0.1	< 0.12	< 0.15	< 0.2	< 1.4	< 2	< 0.1	< 1.2

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)
< 1	< 1	< 1	< 3	< 1	< 1	< 1	< 1	< 1	< 1	< 1.3	< 0.05

02442610 TOMBIGBEE RIVER (PRATT CAMP 5MB) BELOW COLUMBUS, MS

SEDIMENT

DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)
07/13/87	15:15	4	81	2.11	18	5.6	10	9.5	0.08	1.2	< 0.2	< 0.2	< 0.19	< 0.15	< 0.16	< 0.1	< 0.12	< 0.15	< 0.2	< 1.4	< 2	< 0.1	< 1.2

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)
< 1	< 1	< 1	< 3	< 1	< 1	< 1	< 1.3	< 1	< 1	< 1	< 0.05

02444158 TOMBIGBEE RIVER ABOVE ALICEVILLE LOCK AND DAM, AL

SEDIMENT

DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)
07/13/87	12:25	7.1	65	0.93	13	5.05	7.4	9	0.07	0.3	< 0.2	< 0.2	< 0.19	< 0.15	< 0.16	< 0.1	< 0.12	< 0.15	< 0.2	< 1.4	< 2	< 0.1	< 1.2

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)
			< 3	< 1	< 1	< 1	< 1.3	< 1	< 1	< 1	0.11

02444161 TOMBIGBEE RIVER BELOW ALICEVILLE LOCK AND DAM, AL

SEDIMENT

DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)

NOT SAMPLED

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)

02444210 TOMBIGBEE RIVER (BIG CREEK BEND) NR PICKENSVILLE, AL

SEDIMENT

DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)
07/14/87	12:45	4.6	26	0.5	5.5	2.5	6.1	3.9	0.03	0.6	< 0.2	< 0.2	< 0.19	< 0.15	< 0.16	< 0.1	< 0.12	< 0.15	< 0.2	< 1.4	< 2	< 0.1	< 1.2

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)
< 1	< 1	< 1	< 3	< 1	< 1	< 1	< 1.3	< 1	< 1	< 1	0.11

02447010 TOMBIGBEE RIVER AT COOKS DENDWAY NR MARSAW, AL

SEDIMENT

DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)
07/14/87	16:04	15	63	1	12	3.9	6.5	8.4	0.07	1.4	< 0.2	< 0.2	< 0.19	< 0.15	< 0.16	< 0.1	< 0.12	< 0.15	< 0.2	< 1.4	< 2	< 0.1	< 1.2

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)
< 1	< 1	< 1	< 3	< 1	< 1	< 1	< 1.3	< 1	< 1	< 1	< 0.05

02447020 TOMBIGBEE RIVER AB GAINESVILLE LOCK AND DAM, AL

SEDIMENT

DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)
07/15/87	09:40	4.6	43	0.65	5.6	3.1	8.6	8.4	0.03	0.3	< 0.2	< 0.2	< 0.19	< 0.15	< 0.16	< 0.1	< 0.12	< 0.15	< 0.2	< 1.4	< 2	< 0.1	< 1.2

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)
< 1	< 1	< 1	< 3	< 1	< 1	< 1	< 1.3	< 1	< 1	< 1	< 0.05

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL

SEDIMENT

DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)

NOT SAMPLED

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)

02466998 TOMBIGBEE RIVER AB DEMOPOLIS LOCK AND DAM, AL

SEDIMENT

DATE	TIME	ARSENIC (MG/KG)	BARIUM (MG/KG)	CADMIUM (MG/KG)	CHROMIUM (MG/KG)	COBALT (MG/KG)	COPPER (MG/KG)	LEAD (MG/KG)	SILVER (MG/KG)	SELENIUM (MG/KG)	P,P'DDT (UG/KG)	O,P'DDT (UG/KG)	P,P'DDD (UG/KG)	P,P'DDE (UG/KG)	ALDRIN (UG/KG)	GAMMA BHC (UG/KG)	CHLOR-DANE (UG/KG)	DIELDRIN (UG/KG)	ENDRIN (UG/KG)	ETHION (UG/KG)	TOXA-PHENE (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)
07/15/87	16:00	52	72	0.92	14	4.5	6.6	8.4	0.04	0.4	< 0.2	0.2	< 0.19	< 0.15	< 0.16	< 0.1	< 0.12	< 1.5	< 0.2	< 1.4	< 2	< 0.1	< 1.2

PCB-1254 (UG/KG)	PCB-1260 (UG/KG)	TOTAL PCB'S (UG/KG)	MALA-THION (UG/KG)	PARA-THION (UG/KG)	DIAZINON (UG/KG)	METHYL PARATHION (UG/KG)	2,4,5-T (UG/KG)	SILVEX (MG/KG)	TRITHION (UG/KG)	METHYL TRITHION (UG/KG)	MERCURY (MG/KG)
< 1	< 1	< 1	< 3	< 1	< 1	< 1	< 1.3	< 1	< 1	< 1	< 0.05

APPENDIX TVA

TENNESSEE VALLEY AUTHORITY DATA

page TVA-3 follows

APPENDIX TVA

TENNESSEE VALLEY AUTHORITY DATA

PHYTOPLANKTON DENSITIES

page TVA-5 follows

PHYTOPLANKTON DENSITIES (NUMBER/LITER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	CROSS ROADS MS		BAY SPRINGS LAKE		BL BAY SPRINGS L & D		LOCK D POOL	
	MAY 4	JULY 20	MAY 4	JULY 20	MAY 4	JULY 20	MAY 4	JULY 20
Chlorophyta								
Acanthosphaera	0	0	0	0	0	0	0	3,112
Actinastrum	0	0	0	0	0	0	0	0
Ankistrodesmus	12,448	9,336	12,448	0	0	0	105,808	28,008
Botryococcus	0	0	0	0	0	0	0	0
Chlamydomonas	6,224	6,224	18,672	0	31,120	0	12,448	0
Chlorella	0	0	0	0	0	0	0	0
Chodatella	0	0	0	0	0	0	0	0
Closteriopsis	0	0	0	0	0	0	0	0
Closterium	0	0	0	0	0	0	0	0
Coelastrum	0	0	0	0	0	0	24,896	0
Crucigenia	0	0	0	12,448	12,448	37,344	0	71,576
Dictyosphaerium	0	0	0	12,448	0	0	0	37,344
Elakatothrix	12,448	0	0	0	0	0	0	0
Euastrum	0	0	0	0	0	0	0	0
Eudorina	0	0	0	0	0	0	0	0
Gloeoactinium	0	0	0	0	0	0	0	0
Golenkinia	0	0	0	0	0	0	0	0
Gonium	0	0	0	0	0	0	0	0
Kirchneriella	15,560	12,448	0	9,336	0	0	0	18,672
Micractinium	0	0	0	0	0	0	0	0
Micrasterias	0	0	0	0	0	0	0	0
Oocystis	0	12,448	0	0	12,448	0	6,224	31,120
Pandorina	0	0	0	0	0	0	0	0
Pediastrum	0	24,896	0	0	0	0	49,792	0
Platydorina	0	0	0	0	0	0	0	0
Polyedriopsis	0	0	0	0	0	0	0	0
Scenedesmus	77,800	56,016	56,016	24,896	37,344	37,344	87,136	121,368
Schroederia	0	6,224	0	0	0	0	3,112	0
Staurastrum	6,224	12,448	0	0	0	18,672	0	18,672
Tetrastrum	0	0	0	0	0	0	0	0
Treubaria	0	0	0	0	0	0	0	0
Total	130,704	140,040	87,136	59,128	93,360	93,360	289,416	329,872
Chrysophyta								
Achnanthes	6,224	0	0	0	0	0	3,112	0
Asterionella	1,011,400	0	192,944	0	84,024	0	71,576	18,672
Attheya	6,224	0	0	0	0	0	0	0
Chaetoceros	0	37,344	0	0	0	0	0	0
Cymstopleura	0	3,112	0	0	0	0	0	0
Cymbella	6,224	0	0	0	3,112	0	0	0
Dinobryon	0	0	136,928	0	12,448	0	161,824	9,336
Fragilaria	0	93,360	1,020,736	0	700,200	0	329,872	0
Gyrosigma	0	0	0	0	0	0	0	0
Melosira	385,888	236,512	152,488	6,224	99,584	15,560	96,472	118,256

PHYTOPLANKTON DENSITIES (NUMBER/LITER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

		CROSS ROADS MS		BAY SPRINGS LAKE		BL BAY SPRINGS L & D		LOCK D POOL	
		MAY 4	JULY 20	MAY 4	JULY 20	MAY 4	JULY 20	MAY 4	JULY 20
Navicula		21,784	0	3,112	0	0	6,224	15,560	0
Nitzschia		0	0	0	0	0	0	0	0
Ophiocytium		0	0	0	0	0	0	0	0
Pleurosigma		0	0	0	0	0	0	0	0
Rhizosolenia		0	0	12,448	0	9,336	0	6,224	6,224
Stephanodiscus		24,896	21,784	12,448	3,112	12,448	0	15,560	0
Synedra		24,896	18,672	9,336	9,336	31,120	18,672	43,568	43,568
Synura		0	0	0	0	0	0	0	77,800
Tabellaria		0	0	0	0	0	0	0	0
	Total	1,487,536	410,784	1,540,440	18,672	952,272	40,456	743,768	273,856
Cryptophyta									
Chroomonas		0	6,224	62,240	0	77,800	0	12,448	0
Cryptomonas		0	15,560	49,792	0	43,568	0	6,224	6,224
	Total	0	21,784	112,032	0	121,368	0	18,672	6,224
Cyanophyta									
Anabaena		0	34,232	0	0	0	0	0	52,904
Anacystis		65,352	115,144	435,680	0	227,176	0	124,480	0
Aphanizomenon		0	0	0	0	0	0	0	0
Aphanothece		0	0	0	0	0	0	0	0
Lyngbya		0	0	0	0	0	0	0	0
Merismopedia		0	105,808	0	84,024	0	127,592	112,032	230,288
Nostoc		0	0	0	0	0	0	0	0
Oscillatoria		0	771,776	0	0	0	0	0	497,920
Raphidiopsis		12,448	21,784	9,336	6,224	18,672	9,336	9,336	9,336
	Total	77,800	1,048,744	445,016	90,248	245,848	136,928	245,848	790,448
Euglenophyta									
Cryptoglena		0	0	0	0	0	0	0	0
Euglena		0	15,560	9,336	3,112	9,336	6,224	24,896	28,008
Phacus		0	0	0	0	0	0	3,112	6,224
Trachelomonas		0	9,336	0	0	0	0	0	12,448
	Total	0	24,896	9,336	3,112	9,336	6,224	28,008	46,680
Pyrrophyta									
Ceratium		0	0	0	0	0	0	0	0
Gymnodinium		0	0	0	3,112	0	3,112	0	3,112
Peridinium		0	0	0	0	0	0	0	0
	Total	0	0	0	3,112	0	3,112	0	3,112

PHYTOPLANKTON DENSITIES (NUMBER/LITER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	LOCK A POOL		ABERDEEN LAKE		BELOW ABERDEEN L & D		BUTTA RIVER BENDWAY	
	MAY 5	JULY 21	MAY 5	JULY 21	MAY 5	JULY 21	MAY 6	JULY 22
Chlorophyta								
Acanthosphaera	0	0	0	0	0	0	0	0
Actinastrum	0	18,672	0	15,560	18,672	0	0	0
Ankistrodesmus	15,560	28,008	155,600	28,008	192,944	21,784	68,464	12,448
Botryococcus	149,376	0	0	0	0	0	0	0
Chlamydomonas	12,448	21,784	12,448	21,784	21,784	0	9,336	0
Chlorella	0	0	6,224	6,224	9,336	0	0	3,112
Chodatella	0	0	0	0	0	0	0	0
Closteriopsis	0	0	0	0	0	0	0	0
Closterium	0	6,224	0	0	0	0	0	0
Coelastrum	24,896	0	0	59,128	0	24,896	24,896	0
Crucigenia	0	37,344	108,920	62,240	80,912	71,576	68,464	24,896
Dictyosphaerium	0	0	0	12,448	0	31,120	0	56,016
Elakatothrix	0	0	0	0	0	0	0	0
Euastrum	0	0	6,224	0	0	0	0	0
Eudorina	0	0	0	99,584	0	0	0	0
Gloeoactinium	0	0	0	108,920	0	21,784	0	80,912
Golenkinia	0	0	0	0	0	0	0	0
Gonium	0	0	0	49,792	0	0	0	0
Kirchneriella	0	18,672	124,480	108,920	56,016	46,680	68,464	34,232
Micractinium	0	0	0	0	0	0	28,008	0
Micrasterias	0	0	0	0	0	0	0	0
Oocystis	0	0	24,896	12,448	12,448	24,896	0	49,792
Pandorina	0	0	0	0	0	0	0	49,792
Pediastrum	0	99,584	0	105,808	24,896	0	62,240	24,896
Platydorina	0	0	0	49,792	0	49,792	0	49,792
Polyedriopsis	0	0	0	0	0	0	0	0
Scenedesmus	127,592	164,936	494,808	258,296	417,008	87,136	323,648	62,240
Schroederia	9,336	6,224	21,784	12,448	6,224	0	3,112	9,336
Staurastrum	0	15,560	0	24,896	0	6,224	0	0
Tetrastrum	0	0	0	12,448	0	0	0	0
Treubaria	0	0	3,112	0	0	0	0	12,448
Total	339,208	417,008	958,496	1,048,744	840,240	385,888	656,632	469,912
Chrysophyta								
Achnanthes	0	12,448	0	15,560	0	0	0	0
Asterionella	0	0	24,896	18,672	0	12,448	52,904	0
Attheya	0	0	0	0	0	0	0	0
Chaetoceros	0	0	0	0	0	0	0	0
Cymatopleura	0	0	0	0	0	0	0	0
Cymbella	0	0	0	0	0	0	0	0
Dinobryon	0	6,224	28,008	0	43,568	0	0	0
Fragilaria	0	0	0	0	0	0	0	0
Gyrosigma	0	6,224	0	6,224	3,112	0	0	0
Melosira	158,712	525,928	535,264	656,632	703,312	460,576	497,920	675,304

PHYTOPLANKTON DENSITIES (NUMBER/LITER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

		LOCK A POOL		ABERDEEN LAKE		BELOW ABERDEEN L & D		BUTTA RIVER BENDWAY	
		MAY 5	JULY 21	MAY 5	JULY 21	MAY 5	JULY 21	MAY 6	JULY 22
Navicula		3,112	9,336	3,112	3,112	24,896	3,112	6,224	9,336
Nitzschia		0	0	0	0	0	0	0	0
Ophiocytium		0	0	3,112	0	0	0	0	0
Pleurosigma		0	0	0	0	0	0	0	0
Rhizosolenia		0	6,224	9,336	0	0	0	0	0
Stephanodiscus		6,224	0	15,560	28,008	12,448	15,560	18,672	15,560
Synedra		3,112	34,232	28,008	56,016	15,560	43,568	18,672	21,784
Synura		0	0	43,568	0	0	0	0	0
Tabellaria		0	0	0	0	0	0	0	0
	Total	171,160	600,616	690,864	784,224	802,896	535,264	594,392	721,984
Cryptophyta									
Chroomonas		15,560	0	21,784	21,784	9,336	0	21,784	0
Cryptomonas		6,224	12,448	12,448	34,232	24,896	9,336	15,560	3,112
	Total	21,784	12,448	34,232	56,016	34,232	9,336	37,344	3,112
Cyanophyta									
Anabaena		0	196,056	0	0	0	174,272	0	80,912
Anacystis		0	192,944	242,736	152,488	227,176	99,584	121,368	130,704
Aphanizomenon		0	0	0	0	0	0	0	0
Aphanothece		0	0	0	0	0	0	0	0
Lyngbya		0	0	0	0	0	0	0	0
Merismopedia		24,896	252,072	84,024	289,416	37,344	189,832	149,376	625,512
Nostoc		0	0	0	0	0	0	0	0
Oscillatoria		0	0	0	846,464	0	124,480	0	224,064
Raphidiopsis		0	40,456	15,560	46,680	6,224	24,896	21,784	90,248
	Total	24,896	681,528	342,320	1,335,048	270,744	613,064	292,528	1,151,440
Euglenophyta									
Cryptoglena		0	0	0	0	0	0	0	0
Euglena		9,336	46,680	112,032	133,816	68,464	56,016	40,456	56,016
Phacus		0	0	3,112	12,448	0	6,224	3,112	12,448
Trachelomonas		0	15,560	9,336	59,128	12,448	31,120	12,448	49,792
	Total	9,336	62,240	124,480	205,392	80,912	93,360	56,016	118,256
Pyrrophyta									
Ceratium		0	0	0	0	0	0	0	0
Gymnodinium		0	6,224	3,112	6,224	0	3,112	6,224	9,336
Peridinium		0	0	0	0	0	0	0	0
	Total	0	6,224	3,112	6,224	0	3,112	6,224	9,336

PHYTOPLANKTON DENSITIES (NUMBER/LITER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	COLUMBUS LAKE		BELOW COLUMBUS L & D		COLUMBUS BENDWAY		PRATT CAMP BENDWAY	
	MAY 6	JULY 22	MAY 11	JULY 13	MAY 11	JULY 13	MAY 12	JULY 13
Chlorophyta								
Acanthosphaera	0	0	0	0	0	6,224	0	18,672
Actinastrum	0	0	0	74,688	0	136,928	0	46,680
Ankistrodesmus	34,232	46,680	74,688	9,336	15,560	6,224	31,120	24,896
Botryococcus	0	0	0	0	0	0	0	0
Chlamydomonas	12,448	18,672	24,896	18,672	15,560	37,344	6,224	15,560
Chlorella	0	12,448	0	0	0	9,336	0	9,336
Chodatella	0	12,448	0	0	0	6,224	0	9,336
Closteriopsis	0	0	0	0	0	0	0	0
Closterium	0	6,224	0	0	0	0	0	0
Coelastrum	24,896	24,896	0	0	24,896	24,896	24,896	0
Crucigenia	31,120	121,368	80,912	84,024	37,344	152,488	49,792	115,144
Dictyosphaerium	0	84,024	0	62,240	0	93,360	0	217,840
Elakatothrix	0	0	0	0	0	0	0	12,448
Euastrum	0	0	0	12,448	0	12,448	0	0
Eudorina	0	0	0	0	0	0	0	0
Gloeoactinium	0	59,128	0	180,496	0	155,600	37,344	84,024
Golenkinia	0	6,224	0	0	0	0	0	0
Gonium	0	49,792	0	49,792	0	217,840	0	186,720
Kirchneriella	0	196,056	28,008	118,256	0	90,248	68,464	130,704
Micractinium	0	0	0	0	0	0	0	0
Micrasterias	0	0	0	0	0	12,448	0	0
Oocystis	24,896	37,344	12,448	49,792	12,448	62,240	12,448	24,896
Pandorina	0	0	49,792	0	49,792	49,792	49,792	99,584
Pediastrum	24,896	37,344	99,584	12,448	49,792	74,688	24,896	49,792
Platydorina	0	99,584	0	0	0	99,584	0	0
Polyedriopsis	0	0	0	0	0	0	0	0
Scenedesmus	183,608	261,408	189,832	264,520	112,032	351,656	233,400	301,864
Schroederia	15,560	28,008	15,560	31,120	0	31,120	6,224	34,232
Staurastrum	3,112	9,336	0	18,672	0	18,672	0	9,336
Tetrastrum	0	0	0	0	0	0	0	0
Treubaria	0	15,560	0	0	0	9,336	0	9,336
Total	354,768	1,126,544	575,720	986,504	317,424	1,658,696	544,600	1,400,400
Chrysophyta								
Achnanthes	0	0	0	0	0	0	0	0
Asterionella	49,792	0	0	0	0	0	0	0
Attheya	0	0	0	0	0	0	0	0
Chaetoceros	0	0	0	31,120	0	80,912	0	31,120
Cymatopleura	0	0	0	0	0	0	0	0
Cymbella	0	6,224	0	0	0	6,224	0	6,224
Dinobryon	186,720	0	37,344	0	0	0	74,688	0
Fragilaria	0	0	0	0	0	0	0	0
Gyrosigma	0	0	3,112	0	0	0	0	0
Melosira	479,248	656,632	591,280	525,928	217,840	852,688	217,840	168,048

PHYTOPLANKTON DENSITIES (NUMBER/LITER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

		COLUMBUS LAKE		BELOW COLUMBUS L & D		COLUMBUS BENDWAY		PRATT CAMP BENDWAY	
		MAY 6	JULY 22	MAY 11	JULY 13	MAY 11	JULY 13	MAY 12	JULY 13
Navicula		15,560	15,560	12,448	0	0	9,336	0	0
Nitzschia		0	0	6,224	0	0	0	0	0
Ophiocytium		0	0	0	0	0	0	0	0
Pleurosigma		0	0	0	0	0	0	0	0
Rhizosolenia		0	9,336	15,560	0	0	6,224	3,112	6,224
Stephanodiscus		3,112	62,240	0	15,560	9,336	40,456	59,128	43,568
Synedra		6,224	105,808	15,560	65,352	3,112	65,352	6,224	105,808
Synura		0	0	0	0	0	0	0	0
Tabellaria		0	0	0	0	0	24,896	0	0
	Total	740,656	855,800	681,528	637,960	230,288	1,086,088	360,992	360,992
Cryptophyta									
Chroomonas		43,568	21,784	21,784	0	0	0	0	15,560
Cryptomonas		24,896	31,120	15,560	12,448	9,336	18,672	9,336	31,120
	Total	68,464	52,904	37,344	12,448	9,336	18,672	9,336	46,680
Cyanophyta									
Anabaena		0	332,984	31,120	118,256	0	105,808	0	336,096
Anacystis		121,368	292,528	105,808	311,200	130,704	441,904	0	317,424
Aphanizomenon		0	0	0	0	0	0	0	0
Aphanothece		0	0	0	0	0	0	0	65,352
Lyngbya		0	0	0	0	0	0	0	0
Merismopedia		74,688	812,232	0	329,872	186,720	1,064,304	0	855,800
Nostoc		0	0	0	0	0	0	0	0
Oscillatoria		0	1,742,720	0	1,269,696	0	1,493,760	0	4,307,008
Raphidiopsis		12,448	242,736	9,336	71,576	15,560	87,136	12,448	133,816
	Total	208,504	3,423,200	146,264	2,100,600	332,984	3,192,912	12,448	6,015,496
Euglenophyta									
Cryptoglena		0	6,224	0	0	0	0	0	0
Euglena		40,456	273,856	31,120	118,256	40,456	121,368	227,176	211,616
Phacus		0	21,784	0	0	3,112	12,448	0	12,448
Trachelomonas		12,448	118,256	3,112	49,792	6,224	56,016	34,232	43,568
	Total	52,904	420,120	34,232	168,048	49,792	189,832	261,408	267,632
Pyrrophyta									
Ceratium		0	0	0	0	0	0	0	0
Gymnodinium		0	18,672	0	0	0	6,224	0	21,784
Peridinium		0	6,224	0	0	0	3,112	0	0
	Total	0	24,896	0	0	0	9,336	0	21,784

PHYTOPLANKTON DENSITIES (NUMBER/LITER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	ABOVE ALICEVILLE L & D		BELOW ALICEVILLE L & D		BIG CREEK BENDWAY		COOKS BENDWAY	
	MAY 12	JULY 14	MAY 12	JULY 14	MAY 12	JULY 14	MAY 12	JULY 14
Chlorophyta								
Acanthosphaera	0	21,784	0	18,672	0	21,784	0	12,448
Actinastrum	0	124,480	0	80,912	37,344	112,032	0	68,464
Ankistrodesmus	21,784	56,016	28,008	77,800	96,472	46,680	43,568	56,016
Botryococcus	0	0	0	0	0	0	0	0
Chlamydomonas	6,224	62,240	3,112	31,120	6,224	24,896	12,448	15,560
Chlorella	0	0	0	12,448	9,336	6,224	0	12,448
Chodatella	0	0	0	9,336	0	9,336	0	9,336
Closteriopsis	0	0	0	6,224	0	0	0	0
Closterium	0	0	0	0	0	0	0	0
Coelastrum	0	0	24,896	24,896	0	0	49,792	46,680
Crucigenia	24,896	112,032	0	146,264	404,560	1,182,560	49,792	62,240
Dictyosphaerium	0	93,360	0	87,136	0	0	12,448	96,472
Elakatothrix	0	0	0	0	0	0	0	12,448
Euastrum	0	18,672	0	6,224	0	12,448	0	0
Eudorina	0	0	0	0	0	0	0	0
Gloeoactinium	0	224,064	0	196,056	0	43,568	0	258,296
Golenkinia	0	0	0	0	0	0	0	0
Gonium	0	49,792	0	99,584	0	0	0	37,344
Kirchneriella	28,008	118,256	12,448	133,816	146,264	239,624	37,344	40,456
Micractinium	0	0	0	0	0	0	0	0
Micrasterias	0	0	0	0	0	0	0	0
Oocystis	0	62,240	0	37,344	0	24,896	12,448	0
Pandorina	49,792	99,584	99,584	99,584	0	49,792	0	49,792
Pediastrum	24,896	124,480	49,792	99,584	0	0	0	0
Platydorina	0	99,584	0	99,584	0	49,792	0	99,584
Polyedriopsis	0	0	0	0	0	0	0	3,112
Scenedesmus	77,800	261,408	108,920	252,072	759,328	342,320	186,720	239,624
Schroederia	6,224	43,568	0	24,896	24,896	40,456	0	28,008
Staurastrum	0	0	0	12,448	0	0	0	6,224
Tetrastrum	12,448	0	0	0	0	0	0	0
Treubaria	0	9,336	0	9,336	3,112	9,336	0	0
Total	252,072	1,580,896	326,760	1,565,336	1,487,536	2,215,744	404,560	1,154,552
Chrysophyta								
Achnanthes	0	0	0	0	0	0	0	0
Asterionella	0	0	0	0	0	0	0	0
Attheya	0	0	0	0	0	0	0	0
Chaetoceros	0	0	0	0	0	0	0	0
Cymatopleura	0	0	0	0	0	0	0	0
Cymbella	0	9,336	3,112	3,112	0	0	0	0
Dinobryon	0	0	0	0	9,336	0	0	0
Fragilaria	0	0	0	0	0	0	0	0
Gyrosigma	0	0	0	0	0	6,224	0	0
Melosira	211,616	653,520	224,064	501,032	136,928	634,848	448,128	669,080

PHYTOPLANKTON DENSITIES (NUMBER/LITER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

		ABOVE ALICEVILLE L & D		BELOW ALICEVILLE L & D		BIG CREEK BENDWAY		COOKS BENDWAY	
		MAY 12	JULY 14	MAY 12	JULY 14	MAY 12	JULY 14	MAY 12	JULY 14
Navicula		3,112	0	3,112	6,224	34,232	6,224	0	0
Nitzschia		0	0	0	0	3,112	0	0	0
Ophiocytium		0	0	0	0	0	0	0	0
Pleurosigma		0	0	3,112	0	0	0	0	0
Rhizosolenia		0	0	0	0	0	9,336	3,112	0
Stephanodiscus		43,568	56,016	37,344	34,232	9,336	0	56,016	40,456
Synedra		28,008	71,576	3,112	43,568	59,128	90,248	31,120	37,344
Synura		0	0	0	0	0	0	0	0
Tabellaria		0	0	0	0	0	0	0	0
	Total	286,304	790,448	273,856	588,168	252,072	746,880	538,376	746,880
Cryptophyta									
Chroomonas		0	18,672	0	21,784	0	15,560	0	28,008
Cryptomonas		12,448	31,120	0	34,232	6,224	24,896	0	40,456
	Total	12,448	49,792	0	56,016	6,224	40,456	0	68,464
Cyanophyta									
Anabaena		84,024	354,768	0	127,592	0	0	0	121,368
Anacystis		65,352	497,920	0	376,552	127,592	479,248	96,472	485,472
Aphanizomenon		0	522,816	0	0	0	0	0	0
Aphanothece		0	124,480	0	0	0	0	0	0
Lyngbya		0	995,840	0	0	0	0	0	0
Merismopedia		112,032	986,504	130,704	734,432	186,720	435,680	236,512	569,496
Nostoc		0	217,840	0	0	0	0	0	0
Oscillatoria		0	4,680,448	0	3,734,400	0	0	0	3,286,272
Raphidiopsis		15,560	407,672	9,336	121,368	146,264	189,832	99,584	214,728
	Total	276,968	8,788,288	140,040	5,094,344	460,576	1,104,760	432,568	4,677,336
Euglenophyta									
Cryptoglena		0	15,560	0	0	0	0	0	0
Euglena		71,576	258,296	0	99,584	121,368	96,472	87,136	108,920
Phacus		9,336	0	6,224	0	0	9,336	6,224	6,224
Trachelomonas		21,784	40,456	6,224	31,120	31,120	31,120	9,336	15,560
	Total	102,696	314,312	12,448	130,704	152,488	136,928	102,696	130,704
Pyrrophyta									
Ceratium		0	6,224	0	0	0	0	0	0
Gymnodinium		0	31,120	0	18,672	3,112	6,224	0	9,336
Peridinium		0	12,448	0	0	0	0	0	0
	Total	0	49,792	0	18,672	3,112	6,224	0	9,336

PHYTOPLANKTON DENSITIES (NUMBER/LITER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	ABOVE GAINESVILLE L & D		GAINES-VILLE AL		ABOVE DEMOPOLIS L & D	
	MAY 13	JULY 15	MAY 13	JULY 15	MAY 13	JULY 15
Chlorophyta						
Acanthosphaera	0	15,560	0	0	0	0
Actinastrum	0	46,680	0	15,560	0	49,792
Ankistrodesmus	24,896	0	31,120	18,672	84,024	0
Botryococcus	0	0	0	0	0	0
Chlamydomonas	12,448	9,336	12,448	21,784	21,784	15,560
Chlorella	12,448	31,120	0	15,560	0	9,336
Chodatella	0	12,448	0	0	0	6,224
Closteriopsis	0	0	0	0	3,112	0
Closterium	0	6,224	0	0	0	0
Coelastrum	0	0	24,896	0	0	24,896
Crucigenia	0	49,792	62,240	140,040	12,448	80,912
Dictyosphaerium	0	84,024	0	43,568	0	56,016
Elakatothrix	0	12,448	0	0	0	31,120
Euastrum	0	0	6,224	6,224	0	0
Eudorina	0	0	0	0	0	0
Gloeoactinium	0	146,264	0	37,344	0	43,568
Golenkinia	0	0	0	0	0	0
Gonium	0	99,584	0	49,792	0	37,344
Kirchneriella	0	62,240	12,448	80,912	37,344	80,912
Micractinium	0	0	0	0	0	0
Micrasterias	0	0	0	0	0	0
Oocystis	0	37,344	0	37,344	0	12,448
Pandorina	0	49,792	49,792	0	0	99,584
Pediastrum	24,896	37,344	49,792	99,584	124,480	37,344
Platydorina	0	0	0	0	0	99,584
Polyedriopsis	0	6,224	0	0	0	0
Scenedesmus	149,376	252,072	192,944	258,296	196,056	401,448
Schroederia	6,224	18,672	0	12,448	6,224	28,008
Staurastrum	0	0	0	6,224	6,224	0
Tetrastrum	12,448	0	0	0	0	0
Treubaria	0	6,224	0	0	0	0
Total	242,736	983,392	441,904	843,352	491,696	1,114,096
Chrysophyta						
Achnanthes	0	0	0	0	0	0
Asterionella	0	0	6,224	0	0	0
Attheya	0	0	0	0	0	0
Chaetoceros	0	0	0	0	0	40,456
Cymatopleura	0	0	0	0	0	0
Cymbella	0	0	0	0	0	0
Dinobryon	0	0	0	0	0	0
Fragilaria	0	0	0	0	0	0
Gyrosigma	0	0	0	0	0	0
Melosira	177,384	591,280	90,248	448,128	460,576	183,608

PHYTOPLANKTON DENSITIES (NUMBER/LITER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

		ABOVE GAINESVILLE L & D		GAINES-VILLE AL		ABOVE DEMOPOLIS L & D	
		MAY 13	JULY 15	MAY 13	JULY 15	MAY 13	JULY 15
Navicula		3,112	9,336	0	6,224	0	6,224
Nitzschia		0	0	0	0	0	0
Ophiocytium		0	0	0	0	0	0
Pleurosigma		0	0	0	0	0	0
Rhizosolenia		0	0	0	0	0	0
Stephanodiscus		15,560	49,792	6,224	31,120	40,456	90,248
Synedra		3,112	34,232	6,224	9,336	0	59,128
Synura		0	0	0	0	0	0
Tabellaria		0	0	0	0	0	0
	Total	199,168	684,640	108,920	494,808	501,032	379,664
Cryptophyta							
Chroomonas		0	24,896	0	12,448	0	15,560
Cryptomonas		0	37,344	0	24,896	0	21,784
	Total	0	62,240	0	37,344	0	37,344
Cyanophyta							
Anabaena		0	118,256	0	102,696	0	74,688
Anacystis		0	457,464	65,352	199,168	127,592	130,704
Aphanizomenon		0	0	0	0	0	0
Aphanothece		0	0	0	0	0	0
Lyngbya		0	0	0	0	0	0
Merismopedia		0	743,768	124,480	432,568	49,792	332,984
Nostoc		0	0	0	0	0	0
Oscillatoria		0	3,112,000	0	3,311,168	0	1,493,760
Raphidiopsis		12,448	155,600	12,448	180,496	24,896	130,704
	Total	12,448	4,587,088	202,280	4,226,096	202,280	2,162,840
Euglenophyta							
Cryptoglena		0	0	0	0	0	0
Euglena		46,680	68,464	46,680	28,008	46,680	43,568
Phacus		3,112	6,224	0	0	0	0
Trachelomonas		6,224	15,560	3,112	18,672	0	15,560
	Total	56,016	90,248	49,792	46,680	46,680	59,128
Pyrrophyta							
Ceratium		0	0	0	0	0	0
Gymnodinium		0	21,784	0	12,448	0	6,224
Peridinium		0	0	0	0	0	0
	Total	0	21,784	0	12,448	0	6,224

APPENDIX TVA

TENNESSEE VALLEY AUTHORITY DATA

ZOOPLANKTON DENSITIES

page TVA-17 follows

ZOOPLANKTON DENSITIES (NUMBER/CUBIC METER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	CROSS ROADS MS		BAY SPRINGS LAKE		BL BAY SPRINGS L & D		LOCK D POOL	
	MAY 6	JULY 20	MAY 4	JULY 20	MAY 4	JULY 20	MAY 4	JULY 20
Cladocera								
Bosmina longirostris	91,300	16,561	7,844	59,003	9,073	135,660	7,620	30,337
Ceriodaphnia lacustris	2,800	0	996	0	2,520	0	7,320	0
Chydorus sp.	0	0	0	0	0	0	310	0
Daphnia galeata	0	0	0	0	504	0	0	0
Daphnia parvula	0	0	0	0	0	0	0	0
Daphnia pulex	0	0	0	0	0	0	0	0
Daphnia retrocurva	10,250	159	374	0	1,512	0	1,520	0
Diaphanosoma leuchtenbergianum	4,190	955	1,619	109	7,056	1,230	8,540	281
Holopedium gibberum	0	0	0	0	0	0	0	0
Ilyocryptus spinifer	0	0	0	0	0	0	0	0
Moina micrura	0	0	0	0	0	0	0	0
Moina minuta	0	0	0	109	0	0	0	0
Scapholebris kingi	0	0	0	0	0	0	0	0
Total	108,540	17,675	10,833	59,221	20,665	136,890	25,310	30,618
Copepoda								
Calanoid imm.	4,190	0	747	0	1,008	0	310	0
Cyclopoid imm.	6,520	2,548	9,837	2,076	24,698	2,870	8,840	1,404
Cyclops bicuspidatus thomasi	470	0	125	0	0	0	0	0
Cyclops vernalis	930	0	498	0	1,512	0	0	0
Diaptomus pallidus	930	0	0	0	0	0	310	0
Diaptomus reighardi	0	0	0	219	0	0	0	0
Eurytemora affinis	0	0	0	0	0	0	0	0
Mesocyclops edax	0	637	498	765	2,520	1,230	310	0
Nauplii	14,440	17,994	3,985	4,480	30,746	10,270	17,380	25,000
Tropocyclops prasinus	0	0	0	1,311	0	3,280	0	843
Total	27,480	21,179	15,690	8,851	60,484	17,650	27,150	27,247
Rotifera								
Asplanchna herricki	1,390	0	125	437	2,016	410	310	0
Brachionus angularis	1,860	955	125	0	504	0	310	1,404
Brachionus bennini	0	0	0	0	0	0	0	0
Brachionus bidentata	0	0	0	0	0	0	0	0
Brachionus budapestinensis	0	318	0	0	504	0	0	0
Brachionus calyciflorus	3,730	318	1,245	0	3,024	0	1,520	0
Brachionus caudatus	0	159	374	0	1,008	0	610	0
Brachionus havanaensis	0	0	0	0	0	0	0	0
Brachionus quadridentatus	0	0	0	0	0	0	0	562
Brachionus urceolaris	0	0	0	0	0	0	0	0
Collotheca sp.	0	955	0	4,371	504	2,050	920	1,404
Conochiloides sp.	0	0	0	5,791	2,016	8,200	310	46,348
Conochilus unicornis	347,050	21,815	19,175	3,387	19,153	6,970	20,730	41,292

ZOOPLANKTON DENSITIES (NUMBER/CUBIC METER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	CROSS ROADS MS		BAY SPRINGS LAKE		BL BAY SPRINGS L & D		LOCK D POOL	
	MAY 6	JULY 20	MAY 4	JULY 20	MAY 4	JULY 20	MAY 4	JULY 20
Filinia longiseta	0	318	0	0	0	0	0	1,685
Hexarthra intermedia	0	637	0	0	0	0	0	0
Hexarthra mira	0	0	0	0	0	0	0	0
Kellicottia bostoniensis	0	159	0	0	1,512	0	0	1,404
Kellicottia longispina	0	0	125	437	0	1,230	0	0
Keratella crassa	930	0	0	437	0	0	920	281
Keratella earlinae	38,670	1,115	8,343	5,135	35,786	4,510	174,700	1,685
Platyias patulus	0	318	125	0	0	0	0	0
Ploesoma hudsoni	0	0	0	0	0	0	610	0
Ploesoma truncata	0	0	0	437	0	0	920	1,404
Polyarthra sp.	3,730	0	0	0	0	0	610	0
Synchaeta sp.	0	0	0	2,622	0	0	0	14,045
Synchaeta stylata	15,370	5,573	1,494	0	0	7,790	310	0
Trichocerca sp.	0	796	0	1,858	2,016	8,200	620	0
Total	412,730	33,436	31,131	24,912	68,043	39,360	203,400	111,514

ZOOPLANKTON DENSITIES (NUMBER/CUBIC METER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	LOCK A POOL		ABERDEEN LAKE		BELOW ABERDEEN L & D		BUTTA RIVER BENDWAY	
	MAY 5	JULY 21	MAY 5	JULY 21	MAY 5	JULY 21	MAY 6	JULY 22
Cladocera								
Bosmina longirostris	34,038	90,990	65,089	47,639	12,452	27,027	135,680	15,625
Ceriodaphnia lacustris	2,885	0	7,634	0	601	338	0	808
Chydorus sp.	0	0	0	0	0	0	0	0
Daphnia galeata	2,308	0	804	0	0	0	0	0
Daphnia parvula	0	0	0	0	0	0	0	0
Daphnia pulex	0	0	0	0	0	0	0	0
Daphnia retrocurva	1,154	0	1,607	0	546	0	4,870	0
Diaphanosoma leuchtenbergianum	39,808	7,458	20,893	27,192	1,802	7,432	19,460	13,470
Holopedium gibberum	0	0	0	0	0	0	2,160	0
Ilyocryptus spinifer	0	298	0	0	0	0	0	0
Moina micrura	0	0	0	843	0	338	0	0
Moina minuta	0	0	0	0	0	0	0	0
Scapholebris kingi	0	0	0	0	0	0	0	0
Total	80,193	98,746	96,027	75,674	15,401	35,135	162,170	29,903
Copepoda								
Calanoid imm.	1,154	0	2,411	211	382	1,014	4,320	0
Cyclopoid imm.	3,462	6,862	12,054	2,951	164	6,081	5,410	1,078
Cyclops bicuspidatus thomasi	0	0	0	0	0	0	0	0
Cyclops vernalis	0	0	0	0	0	0	0	0
Diaptomus pallidus	577	0	1,205	0	109	0	0	0
Diaptomus reighardi	0	0	0	0	0	0	0	0
Eurytemora affinis	0	0	0	0	0	0	0	0
Mesocyclops edax	577	1,193	1,205	0	0	338	540	0
Nauplii	30,577	15,215	34,955	23,187	2,785	24,324	27,570	9,968
Tropocyclops prasinus	0	0	0	0	0	3,041	0	269
Total	36,347	23,270	51,830	26,349	3,440	34,798	37,840	11,315
Rotifera								
Asplanchna herricki	0	298	6,429	3,794	1,911	1,014	8,110	0
Brachionus angularis	0	0	1,607	843	218	1,014	7,030	1,078
Brachionus bennini	0	0	0	422	0	0	0	0
Brachionus bidentata	0	0	2,411	0	109	1,014	0	269
Brachionus budapestinensis	0	0	0	7,378	0	3,378	0	269
Brachionus calyciflorus	2,308	0	2,813	9,696	164	6,419	0	5,927
Brachionus caudatus	0	0	0	8,432	655	9,459	0	1,616
Brachionus havanaensis	0	0	0	0	0	338	0	0
Brachionus quadridentatus	0	0	2,009	211	0	0	1,620	269
Brachionus urceolaris	0	0	402	0	109	0	0	0
Collotheca sp.	0	2,387	0	0	0	0	540	0
Conochiloides sp.	0	18,496	1,205	16,231	710	36,486	1,080	10,237
Conochilus unicornis	16,154	10,442	34,955	4,005	8,356	6,081	38,380	4,580

ZOOPLANKTON DENSITIES (NUMBER/CUBIC METER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	LOCK A POOL		ABERDEEN LAKE		BELOW ABERDEEN L & D		BUTTA RIVER BENDWAY	
	MAY 5	JULY 21	MAY 5	JULY 21	MAY 5	JULY 21	MAY 6	JULY 22
Filinia longiseta	1,731	1,193	2,411	0	109	0	540	0
Hexarthra intermedia	0	0	0	0	218	0	0	0
Hexarthra mira	0	895	0	0	0	0	0	0
Kellicottia bostoniensis	5,192	0	4,018	0	109	0	1,080	0
Kellicottia longispina	0	0	402	0	164	2,027	0	1,347
Keratella crassa	0	1,193	0	0	55	0	0	0
Keratella earlinae	16,731	4,773	18,080	422	1,311	1,014	25,410	2,155
Platyias patulus	0	4,475	0	2,319	0	2,365	0	0
Ploesoma hudsoni	1,731	0	0	0	0	0	0	0
Ploesoma truncata	0	3,580	0	1,686	437	0	1,620	0
Polyarthra sp.	577	0	402	0	2,130	338	1,080	0
Synchaeta sp.	0	5,967	0	9,275	0	0	0	0
Synchaeta stylata	1,154	0	2,411	0	1,038	9,122	3,240	1,886
Trichocerca sp.	8,654	4,475	3,214	10,329	164	6,757	1,080	3,772
Total	54,232	58,174	82,769	75,043	17,967	86,826	90,810	33,405

ZOOPLANKTON DENSITIES (NUMBER/CUBIC METER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	COLUMBUS LAKE		BELOW COLUMBUS L & D		COLUMBUS BENDWAY		PRATT CAMP BENDWAY	
	MAY 6	JULY 22	MAY 11	JULY 13	MAY 11	JULY 13	MAY 12	JULY 15
Cladocera								
Bosmina longirostris	176,310	6,868	77,876	2,858	71,352	39,332	72,531	1,807
Ceriodaphnia lacustris	1,270	0	590	87	5,691	11,482	3,601	5,422
Chydorus sp.	0	0	0	0	0	0	0	0
Daphnia galeata	640	0	1,180	0	438	0	0	0
Daphnia parvula	640	0	0	0	0	0	0	0
Daphnia pulex	0	0	0	0	438	0	2,058	0
Daphnia retrocurva	2,230	0	0	0	2,626	244	3,086	0
Diaphanosoma leuchtenbergianum	8,910	7,555	13,569	1,126	5,691	26,873	19,033	6,928
Holopedium gibberum	1,270	0	0	0	875	244	0	0
Ilyocryptus spinifer	0	0	0	0	0	0	0	0
Moina micrura	0	0	0	346	0	10,261	0	0
Moina minuta	0	0	0	0	0	0	0	0
Scapholebris kingi	0	0	0	0	0	0	0	0
Total	191,270	14,423	93,215	4,417	87,111	88,436	100,309	14,157
Copepoda								
Calanoid imm.	4,140	515	5,310	260	4,815	733	2,572	301
Cyclopoid imm.	4,140	687	2,360	3,118	7,004	12,215	3,086	8,133
Cyclops bicuspidatus thomasi	0	0	0	0	0	0	0	0
Cyclops vernalis	0	0	0	0	0	0	0	0
Diaptomus pallidus	1,270	0	0	0	438	489	2,572	904
Diaptomus reighardi	1,590	172	0	0	0	0	0	0
Eurytemora affinis	0	0	0	0	0	0	0	0
Mesocyclops edax	960	687	0	260	0	5,863	0	0
Nauplii	38,510	30,907	37,758	21,824	30,642	9,039	34,979	51,205
Tropocyclops prasinus	0	172	0	346	0	5,619	0	301
Total	50,610	33,140	45,428	25,808	42,899	33,958	43,209	60,844
Rotifera								
Asplanchna herricki	3,500	687	13,569	520	4,815	8,306	1,029	3,614
Brachionus angularis	9,550	19,574	54,867	7,968	23,200	3,909	20,062	11,446
Brachionus bennini	0	0	0	0	0	733	0	0
Brachionus bidentata	960	0	1,180	1,212	438	0	0	0
Brachionus budapestinensis	0	859	0	0	0	0	0	0
Brachionus calyciflorus	0	4,464	1,770	8,141	438	76,221	0	5,723
Brachionus caudatus	0	26,614	1,180	3,118	438	2,443	0	11,145
Brachionus havanaensis	0	0	0	0	0	0	514	301
Brachionus quadridentatus	320	0	590	0	0	0	0	0
Brachionus urceolaris	0	0	0	0	0	0	0	0
Collotheca sp.	0	0	0	346	0	244	0	0
Conochiloides sp.	0	20,948	0	9,353	0	2,932	0	2,108
Conochilus unicornis	16,230	3,091	9,440	6,842	0	2,199	36,523	301

ZOOPLANKTON DENSITIES (NUMBER/CUBIC METER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	COLUMBUS LAKE		BELOW COLUMBUS L & D		COLUMBUS BENDWAY		PRATT CAMP BENDWAY	
	MAY 6	JULY 22	MAY 11	JULY 13	MAY 11	JULY 13	MAY 12	JULY 15
Filinia longiseta	3,180	687	590	0	0	0	0	301
Hexarthra intermedia	0	0	0	0	0	0	0	0
Hexarthra mira	0	0	0	0	0	0	0	0
Kellicottia bostoniensis	320	0	1,180	0	0	0	514	0
Kellicottia longispina	320	1,030	0	606	0	1,221	0	301
Keratella crassa	320	0	0	0	1,313	0	2,572	0
Keratella earlinae	19,410	515	26,549	173	5,253	0	31,893	301
Platyias patulus	0	515	0	260	0	0	0	1,506
Ploesoma hudsoni	640	0	1,180	0	0	0	514	0
Ploesoma truncata	0	0	1,770	0	438	0	514	0
Polyarthra sp.	320	859	590	173	0	1,710	0	3,916
Synchaeta sp.	0	0	0	0	0	0	0	0
Synchaeta stylata	1,270	3,949	2,950	2,512	0	7,818	1,029	2,108
Trichocerca sp.	960	1,030	590	1,299	875	0	7,202	1,506
Total	57,300	84,822	117,995	42,523	37,208	107,736	102,366	44,577

ZOOPLANKTON DENSITIES (NUMBER/CUBIC METER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	ABOVE ALICEVILLE L & D		BELOW ALICEVILLE L & D	BIG CREEK BENDWAY		COOKS BENDWAY	
	MAY 12	JULY 14	JULY 14	MAY 12	JULY 14	MAY 12	JULY 14
Cladocera							
Bosmina longirostris	29,531	8,791	2,143	7,050	2,726	148,480	2,495
Ceriodaphnia lacustris	13,594	22,395	476	6,310	0	16,380	20,200
Chydorus sp.	0	0	0	0	0	0	0
Daphnia galeata	0	0	0	0	0	0	0
Daphnia parvula	0	0	0	0	0	0	0
Daphnia pulex	15,000	0	0	0	0	0	0
Daphnia retrocurva	7,031	419	0	1,490	0	8,050	475
Diaphanosoma leuchtenbergianum	15,703	18,000	7,381	1,110	22,975	9,400	6,060
Holopedium gibberum	234	0	0	0	0	540	0
Ilyocryptus spinifer	0	0	0	0	0	0	0
Moina micrura	0	1,465	0	0	0	2,420	3,327
Moina minuta	0	0	0	0	0	0	0
Scapholebris kingi	234	0	0	0	0	0	0
Total	81,327	51,070	10,000	15,960	25,701	185,270	32,557
Copepoda							
Calanoid imm.	5,156	419	476	0	389	3,760	832
Cyclopoid imm.	15,234	6,070	1,905	3,710	1,168	6,710	7,248
Cyclops bicuspidatus thomasi	0	0	0	0	0	0	0
Cyclops vernalis	703	0	0	0	0	270	0
Diaptomus pallidus	3,047	0	0	0	0	270	119
Diaptomus reighardi	703	0	0	0	0	110	0
Eurytemora affinis	938	0	0	740	0	6,980	0
Mesocyclops edax	3,516	2,093	0	0	0	2,690	2,495
Nauplii	46,641	13,186	9,286	4,460	10,903	50,480	21,031
Tropocyclops prasinus	0	837	476	0	0	0	238
Total	75,938	22,605	12,143	8,910	12,460	71,270	31,963
Rotifera							
Asplanchna herricki	234	3,349	2,143	105,070	5,452	9,130	1,782
Brachionus angularis	9,844	3,140	7,857	73,140	14,019	18,530	8,317
Brachionus bennini	0	0	0	0	0	0	0
Brachionus bidentata	0	0	0	0	779	270	0
Brachionus budapestinensis	0	0	0	370	779	0	0
Brachionus calyciflorus	0	3,767	6,429	9,280	8,567	0	1,188
Brachionus caudatus	0	2,302	1,667	37,500	20,639	0	1,901
Brachionus havanaensis	234	0	0	0	0	0	0
Brachionus quadridentatus	0	0	0	0	0	0	0
Brachionus urceolaris	0	0	0	0	0	0	0
Collotheca sp.	0	0	0	0	0	0	0
Conochiloides sp.	0	3,767	1,190	0	1,168	0	3,921
Conochilus unicornis	3,281	1,256	5,000	1,490	1,947	0	475

ZOOPLANKTON DENSITIES (NUMBER/CUBIC METER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	ABOVE ALICEVILLE L & D		BELOW ALICEVILLE L & D	BIG CREEK BENDWAY		COOKS BENDWAY	
	MAY 12	JULY 14	JULY 14	MAY 12	JULY 14	MAY 12	JULY 14
Filinia longiseta	469	209	0	0	389	9,670	0
Hexarthra intermedia	0	1,256	0	0	0	0	0
Hexarthra mira	0	0	0	0	0	0	0
Kellicottia bostoniensis	234	419	0	0	0	2,680	119
Kellicottia longispina	0	0	714	0	0	0	0
Keratella crassa	469	0	0	0	0	13,420	0
Keratella earlinae	29,063	0	0	740	389	36,520	0
Platyias patulus	0	0	0	0	0	0	0
Ploesoma hudsoni	0	0	0	0	0	2,150	0
Ploesoma truncata	234	0	0	0	0	7,520	0
Polyarthra sp.	234	9,000	3,095	0	6,231	0	0
Synchaeta sp.	0	6,488	0	0	0	0	0
Synchaeta stylata	1,172	0	14,048	740	6,231	0	2,020
Trichocerca sp.	2,344	1,465	238	0	389	2,420	119
Total	47,812	36,418	42,381	228,330	66,979	102,310	19,842

ZOOPLANKTON DENSITIES (NUMBER/CUBIC METER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	ABOVE GAINESVILLE L & D		GAINES-VILLE AL		ABOVE DEMOPOLIS L & D	
	MAY 13	JULY 15	MAY 13	JULY 15	MAY 13	JULY 15
Cladocera						
Bosmina longirostris	60,454	12,011	141,800	5,774	28,212	2,725
Ceriodaphnia lacustris	4,050	24,911	1,390	2,717	1,393	1,135
Chydorus sp.	0	0	0	0	0	0
Daphnia galeata	150	0	0	0	174	0
Daphnia parvula	0	0	0	0	0	0
Daphnia pulex	0	0	0	0	0	0
Daphnia retrocurva	2,550	0	1,160	0	348	0
Diaphanosoma leuchtenbergianum	9,601	40,480	2,770	15,965	4,005	2,952
Holopedium gibberum	150	0	0	0	174	0
Ilyocryptus spinifer	0	0	0	0	0	0
Moina micrura	0	1,779	0	1,019	0	908
Moina minuta	0	0	0	0	0	0
Scapholebris kingi	0	0	0	0	0	0
Total	76,955	79,181	147,120	25,475	34,306	7,720
Copepoda						
Calanoid imm.	2,250	1,335	6,010	0	1,219	0
Cyclopoid imm.	14,851	21,352	7,390	13,587	13,061	908
Cyclops bicuspidatus thomasi	0	0	0	0	0	0
Cyclops vernalis	600	0	0	0	0	0
Diaptomus pallidus	750	0	0	0	348	454
Diaptomus reighardi	1,200	0	690	0	348	0
Eurytemora affinis	6,600	0	3,230	0	3,657	0
Mesocyclops edax	900	890	460	1,698	348	341
Nauplii	21,151	63,612	14,320	26,834	42,144	3,520
Tropocyclops prasinus	150	1,335	0	340	348	0
Total	48,452	88,524	32,100	42,459	61,473	5,223
Rotifera						
Asplanchna herricki	1,350	1,779	690	340	348	1,703
Brachionus angularis	2,250	24,021	4,160	25,815	1,393	41,213
Brschionus bennini	0	0	0	0	0	114
Brschionus bidentata	0	0	0	0	0	0
Brachionus budapestinensis	0	3,559	0	1,359	0	454
Brachionus calyciflorus	0	6,673	0	10,530	3,135	1,703
Brachionus caudatus	300	4,893	1,160	15,285	0	7,039
Brachionus havanaensis	0	0	0	0	0	114
Brachionus quadridentatus	0	0	0	0	0	0
Brachionus urceolaris	0	0	0	0	0	0
Collotheca sp.	0	0	0	679	0	0
Conochiloides sp.	0	42,260	0	5,774	0	681
Conochilus unicornis	0	1,779	0	340	0	341

ZOOPLANKTON DENSITIES (NUMBER/CUBIC METER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	ABOVE GAINESVILLE L & D		GAINES-VILLE AL		ABOVE DEMOPOLIS L & D	
	MAY 13	JULY 15	MAY 13	JULY 15	MAY 13	JULY 15
Filinia longiseta	0	0	4,620	0	522	0
Hexarthra intermedia	0	0	0	0	174	0
Hexarthra mira	0	0	0	340	0	0
Kellicottia bostoniensis	0	0	0	0	0	0
Kellicottia longispina	0	445	0	0	0	341
Keratella crassa	0	0	0	0	174	0
Keratella earlinae	6,600	0	16,630	0	5,747	795
Platyias patulus	0	890	0	1,019	0	13,851
Ploesoma hudsoni	750	0	1,160	0	1,741	0
Ploesoma truncata	450	0	2,540	0	2,961	568
Polyarthra sp.	150	445	230	1,698	0	341
Synchaeta sp.	0	0	0	0	0	0
Synchaeta stylata	0	23,577	0	24,457	0	2,725
Trichocerca sp.	150	1,335	920	1,019	174	114
Total	12,000	111,656	32,110	88,655	16,369	72,097

APPENDIX TVA

TENNESSEE VALLEY AUTHORITY DATA

PERIPHYTON DENSITIES

page TVA-29 follows

PERIPHYTON DENSITIES (NUMBER/SQUARE CENTIMETER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	CROSS ROADS MS AUG 11	BAY SPRINGS LAKE AUG 11	BL BAY SPRINGS L & D AUG 11	LOCK A POOL AUG 12	ABERDEEN LAKE AUG 12	BELOW ABERDEEN L & D AUG 12	BUTTA RIVER BENDWAY AUG 12	COLUMBUS LAKE AUG 12
Chlorophyta								
Actinastrum	0	0	0	0	0	0	0	0
Ankistrodesmus	0	0	0	0	399	0	0	0
Closterium	0	0	0	0	0	0	0	25
Coelastrum	0	0	0	100	0	0	0	0
Cosmarium	37	75	0	50	62	112	50	0
Crucigenia	0	0	0	0	0	0	0	199
Euastrum	0	0	0	0	0	0	0	0
Kirchneriella	0	0	0	0	137	0	0	100
Mougeotia	598	1,756	20,364	0	0	5,194	0	2,018
Pandorina	0	0	0	0	199	0	0	0
Pediastrum	0	0	199	0	100	0	0	0
Platydorina	0	0	0	0	199	0	0	0
Scenedesmus	324	311	0	361	822	0	386	399
Staurastrum	0	25	0	25	0	0	0	0
Stigeoclonium	2,379	785	0	473	3,873	2,703	386	3,027
Tetrastrum	0	0	0	50	0	0	0	0
Total	3,338	2,952	20,563	1,059	5,791	8,009	822	5,768
Chrysophyta								
Achnanthes	13,426	8,258	0	536	149	212	0	0
Asterionella	0	0	26,604	0	0	0	0	0
Cocconeis	311	0	0	0	149	0	0	125
Cymbella	187	2,404	361	1,196	1,918	3,027	50	4,247
Diatoma	0	0	0	0	0	0	0	0
Eunotia	0	87	0	0	0	0	0	0
Fragilaria	0	0	0	0	0	0	0	0
Gomphonema	2,939	2,865	660	3,873	1,333	262	324	1,171
Gyrosigma	0	25	0	0	0	149	25	0
Melosira	50	0	0	224	635	436	660	498
Navicula	262	386	0	411	112	1,171	249	299
Nitzschia	12	0	0	0	0	411	12	125
Ophiocytium	0	0	0	25	0	0	0	0
Stephanodiscus	0	62	37	0	0	12	12	75
Synedra	797	660	137	374	25	224	0	137
Total	17,984	14,747	27,799	6,639	4,321	5,904	1,332	6,677

PERIPHYTON DENSITIES (NUMBER/SQUARE CENTIMETER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	CROSS ROADS MS AUG 11	BAY SPRINGS LAKE AUG 11	BL BAY SPRINGS L & D AUG 11	LOCK A POOL AUG 12	ABERDEEN LAKE AUG 12	BELOW ABERDEEN L & D AUG 12	BUTTA RIVER BENDWAY AUG 12	COLUMBUS LAKE AUG 12
Cyanophyta								
Coelosphaerium	0	0	2,616	0	0	0	0	0
Merismopedia	0	0	0	100	249	0	0	149
Oscillatoria	0	0	0	0	697	0	399	697
Raphidiopsis	0	0	0	0	224	125	75	0
Total	0	0	2,616	100	1,170	125	474	846
Euglenophyta								
Euglena	75	100	0	25	100	37	0	0
Phacus	0	0	0	0	0	0	0	75
Trachelomonas	0	0	0	25	0	25	12	75
Total	75	100	0	50	100	62	12	150
Pyrrophyta								
Gymnodinium	0	0	0	0	25	0	0	0
Peridinium	0	0	0	0	0	0	0	0
Total	0	0	0	0	25	0	0	0

PERIPHYTON DENSITIES (NUMBER/SQUARE CENTIMETER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	BELOW COLUMBUS L & D AUG 10	COLUMBUS BENDWAY AUG 10	PRATT CAMP BENDWAY AUG 11	ABOVE ALICEVILL L & D AUG 11	BELOW ALICEVILL L & D AUG 11	BIG CREEK BENDWAY AUG 11	COOKS BENDWAY AUG 12	ABOVE GAINESVIL L & D AUG 12	GAINES-VILLE AL AUG 12	ABOVE DEMOPOLIS L & D AUG12
Chlorophyta										
Actinastrum	0	0	0	0	112	0	0	0	0	0
Ankistrodesmus	0	0	187	125	0	37	100	0	0	212
Closterium	0	0	75	0	0	0	0	0	0	0
Coelastrum	0	0	0	0	0	0	0	0	0	100
Cosmarium	0	87	50	75	50	0	75	62	62	37
Crucigenia	0	100	50	0	0	0	50	50	0	523
Euastrum	0	0	0	0	0	0	50	0	0	0
Kirchneriella	0	0	0	0	0	0	50	0	0	50
Mougeotia	0	0	0	0	0	0	0	0	237	436
Pandorina	0	0	199	0	199	0	0	199	0	199
Pediastrum	0	100	0	0	100	0	100	0	50	299
Platydorina	0	0	0	0	0	0	0	0	0	0
Scenedesmus	25	473	423	1,059	697	75	1,233	585	573	6,140
Staurastrum	0	0	0	0	0	0	0	0	0	0
Stigeoclonium	511	4,895	3,799	2,715	9,727	361	623	2,603	1,495	361
Tetrastrum	0	0	0	0	0	0	50	0	0	0
Total	536	5,655	4,783	3,974	10,885	473	2,331	3,499	2,417	8,357
Chrysophyta										
Achnanthes	0	125	25	62	0	0	0	37	0	137
Asterionella	0	0	0	0	0	0	0	0	0	0
Cocconeis	0	75	0	0	0	0	0	0	0	50
Cymbella	149	2,728	3,438	1,358	311	12	50	1,968	7,062	797
Diatoma	0	0	0	0	25	0	37	0	0	0
Eunotia	0	75	174	87	50	0	0	75	149	0
Fragilaria	0	0	0	0	0	0	0	0	0	523
Gomphonema	0	810	1,507	536	847	112	511	1,544	361	87
Gyrosigma	0	0	0	0	0	12	12	0	62	25
Melosira	0	50	623	436	149	100	361	1,009	336	486
Navicula	37	598	187	585	511	50	199	411	62	585
Nitzschia	0	0	0	0	0	0	12	0	25	75
Ophiocytium	0	0	0	0	0	0	0	0	0	0
Stephanodiscus	0	0	0	0	0	0	0	25	0	25
Synedra	0	0	37	0	149	25	62	199	149	262
Total	186	4,461	5,991	3,064	2,042	311	1,244	5,268	8,206	3,052

PERIPHYTON DENSITIES (NUMBER/SQUARE CENTIMETER) IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	BELOW COLUMBUS L & D AUG 10	COLUMBUS BENDWAY AUG 10	PRATT CAMP BENDWAY AUG 11	ABOVE ALICEVILL L & D AUG 11	BELOW ALICEVILL L & D AUG 11	BIG CREEK BENDWAY AUG 11	COOKS BENDWAY AUG 12	ABOVE GAINESVIL L & D AUG 12	GAINES-VILLE AL AUG 12	ABOVE DEMOPOLIS L & D AUG12
Cyanophyta										
Coelosphaerium	0	0	0	0	0	0	0	0	0	0
Merismopedia	0	0	0	0	0	0	237	100	274	0
Oscillatoria	0	3,288	23,017	2,690	0	0	2,491	0	598	16,142
Raphidiopsis	0	0	0	0	0	0	536	249	0	411
Total	0	3,288	23,017	2,690	0	0	3,264	349	872	16,553
Euglenophyta										
Euglena	0	0	12	100	25	12	12	0	0	37
Phacus	0	12	0	0	0	0	12	25	0	0
Trachelomonas	0	0	0	0	0	0	0	0	0	0
Total	0	12	12	100	25	12	24	25	0	37
Pyrrophyta										
Gymnodinium	0	0	0	0	0	0	0	0	0	0
Peridinium	0	0	0	0	0	0	0	12	0	0
Total	0	0	0	0	0	0	0	12	0	0

APPENDIX TVA

TENNESSEE VALLEY AUTHORITY DATA

PERIPHYTON AUTOTROPHIC INDICES

page TVA-35 follows

CHLOROPHYLL/BIOMASS ANALYSES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

STORET STATION DESCRIPTION	DATE	REP. NO.	PAM2	PI	CBM2	CCM2	CAM2	AFOW	AI	CCAM2	CAI
03592824	11AUG87	1	2.03	1.50	0.74	1.30	6.43	1539.73	239.47	5.07	303.59
TTW at Cross		2	2.02	1.44	1.00	0.80	4.79	1288.36	268.99	3.51	366.92
Roads, MS		3	0.00	1.77	0.06	0.33	1.93	298.63	154.78	1.93	154.78
		4	8.21	1.10	0.39	0.67	6.34	1771.23	279.41	1.32	1345.19
		5	1.90	1.27	0.40	0.32	2.34	460.96	196.92	1.17	393.84
		6	2.98	1.37	0.31	0.65	5.28	1418.49	268.50	3.36	421.55
		7	7.86	1.14	0.15	1.25	6.82	1725.34	252.99	1.98	873.56
		8	0.26	1.64	0.34	0.40	2.78	697.95	250.87	2.56	272.61
343140088192235	11AUG87	1	2.07	1.22	0.40	0.36	2.22	1086.30	490.38	0.95	1142.32
TTW Bay Springs		2	1.16	1.27	0.24	0.35	1.45	939.73	649.49	0.73	1284.64
Lake Navigation		3	0.00	1.77	0.23	0.33	1.92	1256.85	655.79	1.92	655.79
Mile 412.3		4	0.03	1.69	0.37	0.32	2.19	1220.55	558.04	2.12	575.36
		5	0.00	1.75	0.17	0.16	1.52	933.56	615.53	1.52	615.53
		6	0.83	1.31	0.16	0.27	1.17	747.95	638.06	0.66	1136.08
		7	1.34	1.23	0.24	0.21	1.48	978.77	661.43	0.66	1486.68
		8	1.87	1.17	0.26	0.38	1.73	1173.29	679.78	0.59	2004.92
02430005	11AUG87	1	0.00	1.73	2.54	1.29	12.92	1954.11	151.27	12.92	151.27
TTW below Bay		2	0.88	1.65	1.53	1.70	12.24	1859.59	151.92	11.41	162.96
Springs L&D, MS		3	0.00	1.77	0.86	1.10	7.05	1341.10	190.28	7.05	190.28
340103088285435	12AUG87	1	1.70	1.39	0.76	0.41	3.25	1526.03	469.57	2.19	695.38
TTW Lock "A" Pool		2	1.38	1.42	1.52	0.12	2.85	1856.16	475.69	2.05	662.12
Sedimentation		3	1.35	1.35	0.61	0.24	2.14	1227.40	574.12	1.32	932.17
Range 1AA		4	1.54	1.35	0.75	0.47	2.47	1383.56	560.52	1.54	900.66
		5	2.35	1.26	0.78	0.22	2.81	2415.07	858.46	1.39	1737.63
		6	1.19	1.28	0.27	0.11	1.54	7626.71	4950.12	0.80	9478.21
		7	2.31	1.16	0.32	0.31	2.07	1589.04	769.14	0.66	2413.65
		8	2.93	1.15	0.44	0.36	2.59	22441.78	8673.13	0.80	27889.9
335008088311335	12AUG87	1	1.66	1.38	0.81	0.09	3.00	1376.03	458.70	1.98	696.70
TTW Aberdeen		2	4.45	1.26	0.18	0.48	5.36	1439.04	268.63	2.56	562.07
Lake Sedimentation		3	9.02	1.16	0.86	0.78	8.24	4368.49	530.21	2.71	1614.03
Range 1A		4	2.66	1.51	0.38	0.51	8.87	3680.82	414.79	7.02	524.15
		5	0.79	1.57	0.00	0.46	4.13	1244.52	301.51	3.51	354.44
		6	1.68	1.36	0.81	0.09	2.78	892.47	320.89	1.76	508.35
		7	0.42	1.59	0.25	0.35	2.67	899.32	337.41	2.34	384.19
		8	7.90	1.25	50.19	0.00	5.69	3336.99	586.72	4.39	760.30
02437101	12AUG87	1	1.71	1.64	5.32	0.92	18.61	2439.73	131.06	17.34	140.73
Tombigbee River		2	4.81	1.60	6.99	2.41	31.97	5223.97	163.39	28.53	183.11
below Aberdeen		3	0.00	1.71	7.95	2.13	25.62	3134.93	122.37	25.62	122.37
L&D, MS		4	0.00	1.77	5.41	2.62	33.22	6521.23	196.32	33.22	196.32
		5	0.00	1.82	7.23	4.50	45.15	4246.58	94.05	45.15	94.05
		6	4.70	1.57	6.88	1.55	23.27	2595.89	111.56	20.19	128.58
		7	1.32	1.66	5.99	0.78	21.28	2940.41	138.15	20.19	145.64
		8	0.00	1.72	7.81	1.14	26.48	3106.85	117.31	26.48	117.31

CHLOROPHYLL/BIOMASS ANALYSES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

STORET STATION DESCRIPTION	DATE	REP. NO.	PAM2	PI	CBM2	CCM2	CAM2	AFOW	AI	CCAM2	CAI
333927088304935	12AUG87	1	5.99	1.30	0.56	0.98	8.39	21062.33	2511.75	4.61	4570.33
TTW Columbus		2	0.64	1.64	0.56	0.40	7.17	2700.68	376.49	6.58	410.22
Lake Buttahatchee		3	4.52	1.16	0.56	0.10	4.08	1257.53	308.09	1.32	955.06
River Bendway 26A		4	6.94	1.26	1.06	0.38	8.48	4475.34	527.83	4.17	1073.33
		5	6.34	1.40	0.12	0.74	12.74	11800.68	926.57	8.56	1378.81
		6	1.99	1.50	0.87	0.37	6.31	1612.33	255.69	4.97	324.14
		7	2.46	1.46	0.55	0.12	6.24	4617.81	740.12	4.61	1002.02
		8	1.58	1.50	0.36	0.26	5.03	1236.30	245.63	3.95	312.98
333119088291435	12AUG87	1	9.63	1.25	1.81	2.32	11.18	4601.37	411.55	5.27	873.65
TTW Columbus Lake		2	10.69	1.30	1.22	1.65	14.61	5971.92	408.75	7.90	755.91
Sedimentation		3	3.99	1.38	0.21	0.53	7.20	1987.67	276.12	4.61	431.31
Range 1A		4	5.73	1.45	0.00	1.04	13.97	4729.45	338.43	10.09	468.50
		5	1.47	1.61	0.00	0.87	10.68	3043.15	284.84	9.44	322.49
		6	0.90	1.63	0.69	0.35	9.60	2760.27	287.48	8.78	314.45
		7	4.96	1.37	0.66	0.28	8.67	2182.88	251.86	5.49	397.88
		8	4.74	1.38	0.27	0.39	8.79	3235.62	368.11	5.71	567.08
02441391	10AUG87	1	2.00	1.54	0.43	1.17	8.08	1654.79	204.79	6.66	248.59
Tombigbee River		2	1.19	1.28	0.00	0.22	1.56	1252.05	801.67	0.80	1556.01
below Columbus		3	0.79	1.25	0.00	0.00	0.94	1235.62	1309.52	0.44	2815.23
L&D, MS		4	0.00	1.84	0.00	0.47	12.51	.	.	12.51	0.00
		5	1.84	1.59	0.00	0.09	11.68	6487.67	555.25	10.14	639.59
		6	2.95	1.12	0.00	0.23	2.43	1122.60	462.92	0.59	1918.31
		7	2.03	1.60	0.00	0.15	13.46	358.22	26.62	11.73	30.54
		8	0.00	1.77	0.00	0.45	15.59	13383.56	858.25	15.59	858.25
02441498	10AUG87	1	0.00	1.87	0.00	0.00	9.71	2945.89	303.49	9.71	303.49
Tombigbee River		2	4.79	1.35	0.32	0.00	7.84	2894.52	369.05	4.75	608.76
(Col. Bend. 11B)		3	0.00	1.74	0.00	0.00	11.12	4041.10	363.26	11.12	363.26
at Columbus, MS		4	0.00	1.77	0.00	0.00	7.25	4623.29	637.66	7.25	637.66
		5	0.00	1.77	0.00	0.00	7.59	4021.92	530.00	7.59	530.00
		6	0.00	1.88	0.00	0.00	6.26	12768.49	2041.07	6.26	2041.07
		7	1.46	1.60	0.00	0.00	10.57	4126.71	390.48	9.19	448.92
		8	0.38	1.67	0.00	0.00	10.57	4215.75	398.84	9.83	429.02
02443610	11AUG87	1	0.00	2.13	0.00	0.00	4.73	1482.19	313.46	4.73	313.46
Tombigbee River		2	0.00	1.83	0.00	0.00	7.31	2449.32	335.15	7.31	335.15
(Pratt Camp 5HB)		3	5.16	1.09	0.00	0.03	3.93	1378.08	350.49	0.73	1883.90
below Columbus		4	0.72	1.52	0.00	0.10	2.59	1341.10	517.39	2.05	654.76
L&D, MS		5	3.84	1.08	0.00	0.00	2.89	1406.16	487.00	0.51	2746.12
		6	4.49	1.15	0.30	0.00	4.01	1532.19	382.00	1.24	1232.10
		7	5.21	1.13	0.48	0.00	4.44	1719.18	387.62	1.24	1382.46
		8	2.33	1.27	0.00	0.00	2.95	1712.33	580.87	1.46	1170.41
		9	6.86	1.16	0.00	0.27	6.36	10253.42	1612.94	2.05	5006.02

CHLOROPHYLL/BIOMASS ANALYSES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

STORET STATION DESCRIPTION	DATE	REP. NO.	PAM2	PI	CBM2	CCM2	CAM2	AFOW	AI	CCAM2	CAI
02444158	11AUG87	1	5.03	1.33	0.00	0.24	7.64	3110.27	406.95	4.39	708.65
Tombigbee River		2	4.81	1.34	0.11	0.46	7.55	16257.53	2152.89	4.46	3643.40
above Aliceville		3	1.81	1.46	0.00	0.00	4.77	2677.40	561.34	3.51	762.52
L&D, AL		4	1.05	1.52	0.00	0.00	3.95	957.53	242.72	3.15	304.42
		5	2.35	1.39	0.00	0.09	4.52	24588.36	5444.89	2.93	8403.32
		6	3.26	1.13	0.00	0.00	2.77	939.73	339.66	0.73	1284.64
		7	2.68	1.36	0.35	0.48	4.56	7876.71	1726.24	2.85	2760.97
		8	5.33	1.30	0.00	0.27	7.53	2897.26	384.76	4.10	707.26
		9	2.65	1.43	0.00	0.00	6.10	2668.49	437.70	4.32	618.29
02444161	11AUG87	1	4.34	1.30	0.00	0.18	6.07	2503.42	412.29	3.29	760.51
Tombigbee River		2	4.92	1.34	0.16	0.25	7.92	5532.88	698.20	4.75	1163.64
below Aliceville		3	3.28	1.41	0.17	0.12	6.93	67932.88	9809.74	4.75	14287.2
L&D, AL		4	3.08	1.49	0.00	0.29	9.47	7202.74	760.46	7.32	984.64
		5	9.69	1.13	0.00	0.00	8.21	5429.45	661.42	2.19	2474.09
		6	0.25	1.66	0.00	27.65	4.50	1558.90	346.29	4.46	349.36
		7	3.14	1.33	0.25	0.10	4.86	3858.22	794.49	2.85	1352.40
		8	3.47	1.41	1.27	0.37	7.02	2390.41	340.29	4.83	495.12
		9	7.15	1.22	0.57	0.80	7.73	3656.85	473.05	3.29	1110.90
02444210	11AUG87	1	1.43	1.44	0.64	0.24	3.32	30841.78	9278.97	2.41	12776.4
Tombigbee River		2	2.39	1.30	1.42	1.15	3.16	35150.68	11126.43	1.76	20021.8
(Big Creek) near		3	7.53	1.20	0.00	0.00	7.84	21752.74	2775.21	3.07	7080.21
Pickensville, AL		4	0.55	1.53	0.00	0.32	2.16	25483.56	11793.01	1.76	14515.4
		5	0.90	1.52	0.00	0.00	3.32	5914.38	1782.34	2.63	2245.89
		6	1.73	1.41	0.10	0.00	3.56	14932.19	4196.12	2.41	6185.73
		7	6.12	1.11	0.10	0.00	4.87	10052.05	2064.27	1.10	9161.05
		8	5.03	1.08	0.55	0.93	3.70	20394.52	5514.81	0.66	30977.9
		9	4.37	1.28	0.69	0.28	5.57	16448.63	2953.00	2.85	5765.63
02447010	12AUG87	1	7.20	1.31	1.70	0.36	10.18	6785.62	666.55	5.71	1189.26
Tombigbee River		2	0.75	1.65	0.54	0.63	9.52	3773.97	396.58	8.78	429.93
(Cooks Bend) near		3	1.78	1.60	2.03	0.00	12.32	3522.60	285.96	10.97	321.04
Warsaw, AL		4	7.20	1.26	0.00	0.00	8.76	6182.19	705.87	4.17	1482.69
		5	3.82	1.46	0.00	0.22	9.90	3001.37	303.18	7.24	414.44
		6	5.57	1.29	0.79	0.04	7.44	4188.36	562.89	3.95	1060.31
		7	3.18	1.44	28.88	0.00	5.29	5093.84	962.15	5.27	967.15
		8	0.20	1.68	0.28	0.18	5.79	2720.55	469.80	5.49	495.88
		9	3.18	1.44	0.47	0.38	7.37	4218.49	572.54	5.27	800.95
02447020	12AUG87	1	0.59	1.57	0.00	0.00	3.10	8520.55	2750.73	2.63	3235.54
Tombigbee River		2	1.43	1.44	0.00	0.00	3.40	1976.03	580.66	2.41	818.58
above Gainesville		3	0.79	1.57	0.65	0.00	4.08	3512.33	861.21	3.51	1000.31
L&D, AL		4	14.29	1.27	1.42	0.44	18.17	10936.30	601.82	9.22	1186.54
		5	3.16	1.25	0.14	0.11	3.74	1682.19	449.86	1.76	958.18
		6	5.97	1.21	0.53	0.00	6.34	3686.30	581.68	2.63	1399.81
		7	5.82	1.39	0.50	0.36	11.02	11501.37	1043.36	7.24	1588.17
		8	4.10	1.24	0.68	0.00	4.73	1776.03	375.10	2.19	809.30

CHLOROPHYLL/BIOMASS ANALYSES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

STORET STATION DESCRIPTION	DATE	REP. NO.	PAM2	PI	CBM2	CCM2	CAM2	AFOW	AI	CCAM2	CAI
02449000	12AUG87	1	10.45	1.16	1.27	1.53	9.45	4634.93	490.52	3.07	1508.61
Tombigbee River		2	11.67	1.15	2.71	3.29	10.07	3896.58	387.03	3.07	1268.28
at Gainesville, AL		3	5.33	1.39	1.39	1.63	10.19	4415.75	433.38	6.80	649.09
		4	9.15	1.29	2.81	4.59	11.92	6341.10	531.94	6.36	996.38
		5	14.11	1.20	5.40	5.23	14.06	6354.79	452.09	5.71	1113.75
		6	3.66	1.43	2.03	2.48	7.97	2687.67	337.10	5.71	471.05
		7	0.00	1.87	4.15	4.71	8.72	2509.59	287.78	8.72	287.78
		8	6.17	1.36	3.09	3.06	10.32	2459.59	238.28	6.58	373.60
02466998	12AUG87	1	10.75	1.26	0.23	2.45	13.09	6211.64	474.41	6.34	979.80
Tombigbee River		2	8.72	1.33	0.75	2.41	13.46	9443.15	701.59	7.92	1191.62
above Demopolis		3	7.29	1.41	1.54	2.68	15.16	6731.51	444.12	10.46	643.51
L&D, AL		4	2.79	1.50	1.20	1.47	8.83	3061.64	346.72	6.97	439.03
		5	0.00	1.70	1.34	1.32	10.04	2913.01	290.12	10.04	290.12
		6	3.96	1.53	3.65	1.83	15.27	7373.29	482.75	12.68	581.51
		7	5.01	1.45	0.00	2.01	12.61	4055.48	321.69	9.19	441.17
		8	4.28	1.45	1.70	1.53	10.69	2661.64	249.05	7.92	335.87

APPENDIX TVA

TENNESSEE VALLEY AUTHORITY DATA

BENTHIC MACROINVERTEBRATE DENSITIES

page TVA-41 follows

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	CROSS ROADS MS						BAY SPRINGS LAKE						BL BAY SPRINGS L & D					
	MAY 4			JULY 20			MAY 4			JULY 20			MAY 4			JULY 20		
	05	10	90	10	50	90	10	50	90	10	50	90	10	50	90	10	50	90
Annelida																		
Hirudines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pharyngobdellida																		
Erpobdellidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhynchobdellida																		
Glossiphoniidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta	24	109	24	6	344	0	284	6	6	0	375	0	36	12	6	61	18	54
Plesiopora																		
Branchiura sowerbyi	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda																		
Crustacea																		
Amphipoda																		
Crangonyx sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyalella azteca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decapoda																		
Cambarus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orconectes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palaemonetes sp.	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda																		
Asellus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Insecta																		
Coleoptera																		
Berosus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dubiraphia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenelmis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera																		
Ablabesmyia sp.	0	0	6	12	0	6	0	0	0	0	12	0	0	0	0	0	0	0
Ceratopogonidae	0	0	0	6	0	0	12	0	0	0	0	0	0	0	0	0	0	0
Chaoborus sp.	30	6	12	103	212	169	18	4,829	157	786	18	538	0	0	0	0	0	0
Chironomidae	12	0	12	42	6	42	61	12	18	0	12	0	6	12	0	6	0	12
Chironomus sp.	0	0	12	0	0	0	30	72	30	0	0	0	6	0	0	0	0	0
Clinotanypus sp.	0	0	0	0	0	133	0	0	0	0	0	0	0	0	0	0	0	0
Coelotanypus sp.	235	6	339	236	49	236	224	0	60	6	18	0	0	0	0	0	0	0
Cryptochironomus sp.	0	6	0	0	18	0	6	0	0	0	30	0	0	0	0	0	6	6
Culicidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicrotendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epoicocladius sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eukiefferiella sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyptotendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Muscidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parachironomus sp.	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	CROSS ROADS MS						BAY SPRINGS LAKE						BL BAY SPRINGS L & D					
	MAY 4			JULY 20			MAY 4			JULY 20			MAY 4			JULY 20		
	05	10	90	10	50	90	10	50	90	10	50	90	10	50	90	10	50	90
Paracladopelma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polypedilum sp.	0	0	12	12	6	0	0	0	6	0	0	0	0	0	0	0	0	0
Procladius sp.	12	0	24	12	0	12	12	12	0	0	12	0	0	0	0	0	0	0
Pseudochironomus	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0
Simuliidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stictochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	18	6	42	6	12	29
Tanypus sp.	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tipulidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tribelos sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Xenochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
Ephemeroptera																		
Baetidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caenis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexagenia sp.	30	0	84	78	24	67	109	0	0	0	0	0	0	0	0	0	0	0
Isonychia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptophlebiidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenonema sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tricorythodes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hemiptera																		
Corixidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Megaloptera																		
Sialis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odonata																		
Argia sp.	0	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	0	0
Didymops sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enallagma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gomphidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gomphus sp.	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
Trichoptera																		
Cheumatopsyche sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyrnellus fraternus	0	0	0	0	0	0	18	0	0	0	6	0	0	0	0	0	0	0
Hydroptila sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limnephilidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macronema sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neureclipsis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oecetis sp.	0	0	0	0	0	0	0	0	6	0	18	0	0	0	0	0	0	0
Polycentropus sp.	0	0	0	0	0	0	6	0	0	0	18	0	0	0	0	0	0	0
Bryozoa																		
Phylactolaemata																		
Plumatellina																		
Pectinatella magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	CROSS ROADS MS						BAY SPRINGS LAKE						BL BAY SPRINGS L & D					
	MAY 4			JULY 20			MAY 4			JULY 20			MAY 4			JULY 20		
	05	10	90	10	50	90	10	50	90	10	50	90	10	50	90	10	50	90
Mollusca																		
Bivalvia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontida																		
Corbicula sp.	48	73	36	12	0	6	302	12	115	6	97	0	151	151	42	18	18	0
Psidium sp.	0	0	0	0	0	0	12	0	24	0	0	0	0	0	0	0	0	0
Sphaerium sp.	36	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unionidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gastropoda																		
Basommatophora																		
Physella sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mesogastropoda																		
Amnicola sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Campeloma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleurocera sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viviparus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemata	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0
Platyhelminthes																		
Turbellaria																		
Tricladida																		
Planariidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	LOCK D POOL						LOCK A POOL						MACKEYS CREEK			
	MAY 4			JULY 20			MAY 5			JULY 21			MAY 4			JULY 20
	10	50	90	10	50	90	10	50	90	10	50	90	10*	50*	90*	10
Annelida																
Hirudinea	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
Pharyngobdellida																
Erpobdellidae	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0
Rhynchobdellida																
Glossiphoniidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta	0	54	24	0	12	0	121	248	12	36	284	12	43	0	43	72
Plesiopora																
Branchiura sowerbyi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda																
Crustacea																
Amphipoda																
Crangonyx sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyalella azteca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decapoda																
Cambarus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orconectes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Palaemonetes sp.	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
Isopoda																
Asellus sp.	0	6	66	0	0	0	0	0	0	0	0	0	0	0	0	0
Insecta																
Coleoptera																
Berosus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dubiraphia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenelmis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera																
Ablabesmyia sp.	0	0	12	0	0	0	12	0	6	0	0	36	0	0	0	0
Ceratopogonidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaoborus sp.	6	0	0	121	151	36	0	30	18	6	18	18	0	0	0	0
Chironomidae	60	36	67	6	0	18	217	18	48	12	0	6	172	0	129	0
Chironomus sp.	423	284	109	18	12	0	362	0	30	0	0	0	0	0	0	0
Clinotanypus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coelotanypus sp.	0	24	6	48	0	0	0	55	127	67	103	12	0	0	0	0
Cryptochironomus sp.	0	6	12	0	0	0	91	36	0	0	0	0	0	0	0	0
Culicidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicrotendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epoicocladius sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eukiefferiella sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyptotendipes sp.	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Muscidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parachironomus sp.	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	LOCK D POOL						LOCK A POOL						MACKEYS CREEK			
	MAY 4			JULY 20			MAY 5			JULY 21			MAY 4			JULY 20
	10	50	90	10	50	90	10	50	90	10	50	90	10*	50*	90*	10
Paracladopelma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polypedilum sp.	12	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0
Procladius sp.	91	97	115	0	6	14	272	12	30	30	12	0	0	0	0	0
Pseudochironomus	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0
Simuliidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenochironomus sp.	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0
Stictochironomus sp.	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanypus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tipulidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tribelos sp.	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Xenochironomus sp.	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0
Ephemeroptera																
Baetidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caenis sp.	0	0	0	0	0	0	187	6	0	0	0	0	0	0	0	0
Hexagenia sp.	0	0	0	0	0	0	6	6	18	0	0	0	0	0	0	0
Isonychia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptophlebiidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenonema sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tricorythodes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hemiptera																
Corixidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Megaloptera																
Sialis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odonata																
Argia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Didymops sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enallagma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gomphidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gomphus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trichoptera																
Cheumatopsyche sp.	0	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0
Cyrnellus fraternus	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydroptila sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limnephilidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	0
Macronema sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Neureclipsis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oecetis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polycentropus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bryozoa																
Phylactolaemata																
Plumatellina																
Pectinatella magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	LOCK D POOL						LOCK A POOL						MACKEYS CREEK			
	MAY 4			JULY 20			MAY 5			JULY 21			MAY 4			JULY 20
	10	50	90	10	50	90	10	50	90	10	50	90	10*	50*	90*	10
Mollusca																
Bivalvia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontida																
Corbicula sp.	0	0	6	0	0	0	0	18	6	6	18	6	215	43	43	14
Psidium sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sphaerium sp.	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0
Unionidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gastropoda																
Basommatophora																
Physella sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mesogastropoda																
Amnicola sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Campeloma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleurocera sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viviparus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Platyhelminthes																
Turbellaria																
Tricladida																
Planariidae	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0	0

* Number based on one sample.

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	TOWN CREEK						AMORY MS						ABERDEEN LAKE					
	MAY 5			JULY 21			MAY 5			JULY 21			MAY 5			JULY 21		
	10	50	90	10	50	90	10	50	90	10	50	90	10	50	90	10	50	90
Annelida																		
Hirudinea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pharyngobdellida																		
Erpobdellidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhynchobdellida																		
Glossiphoniidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta	14	0	0	36	6	0	0	6	18	201	0	115	12	24	12	42	272	61
Plesiopora																		
Branchiura sowerbyi	0	0	0	0	0	0	0	0	0	43	0	0	6	6	6	18	91	12
Arthropoda																		
Crustacea																		
Amphipoda																		
Crangonyx sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyalella azteca	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0
Decapoda																		
Cambarus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orconectes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palaemonetes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda																		
Asellus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Insecta																		
Coleoptera																		
Berosus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dubiraphia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenelmis sp.	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0
Diptera																		
Ablabesmyia sp.	0	0	0	0	0	0	0	0	6	0	0	0	0	18	0	0	0	0
Ceratopogonidae	0	0	0	0	14	86	0	0	6	0	0	0	12	0	0	0	6	0
Chaoborus sp.	0	0	0	0	0	0	0	0	0	158	43	143	0	0	18	1,124	1,227	121
Chironomidae	54	244	48	316	761	531	79	78	54	186	115	890	12	0	0	0	0	30
Chironomus sp.	0	0	0	0	0	0	212	60	459	14	0	0	90	6	12	12	67	0
Clinotanypus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coelotanypus sp.	0	0	0	0	0	0	6	0	0	143	29	29	133	417	254	49	73	6
Cryptochironomus sp.	0	0	0	43	0	43	6	12	0	0	14	0	12	0	0	0	6	54
Culicidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicrotendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0
Epoicocladius sp.	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0
Eukiefferiella sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyptotendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Muscidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parachironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	TOWN CREEK						AMORY MS						ABERDEEN LAKE					
	MAY 5			JULY 21			MAY 5			JULY 21			MAY 5			JULY 21		
	10	50	90	10	50	90	10	50	90	10	50	90	10	50	90	10	50	90
Paracladopelma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polypedilum sp.	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	12
Procladius sp.	0	0	0	0	0	0	14	0	43	0	0	72	54	36	127	0	36	18
Pseudochironomus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	18
Simuliidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stictochironomus sp.	0	0	72	0	0	0	0	14	0	6	0	0	0	0	0	0	0	0
Tanypus sp.	0	0	0	0	0	0	0	0	0	0	0	6	0	0	12	18	73	0
Tipulidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tribelos sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Xenochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ephemeroptera																		
Baetidae	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
Caenis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Hexagenia sp.	0	0	0	0	0	0	0	0	0	545	91	1,895	0	91	0	6	0	6
Isonychia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptophlebiidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenonema sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tricorythodes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hemiptera																		
Corixidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Megaloptera																		
Sialis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odonata																		
Argia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Didymops sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enallagma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gomphidae	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
Gomphus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trichoptera																		
Cheumatopsyche sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyrnellus fraternus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Hydroptila sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limnephilidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macronema sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neureclipsis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oecetis sp.	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0
Polycentropus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bryozoa																		
Phylactolaemata																		
Plumatellina																		
Pectinatella magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	TOWN CREEK						AMORY MS						ABERDEEN LAKE					
	MAY 5			JULY 21			MAY 5			JULY 21			MAY 5			JULY 21		
	10	50	90	10	50	90	10	50	90	10	50	90	10	50	90	10	50	90
Mollusca																		
Bivalvia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontida																		
Corbicula sp.	0	0	0	0	0	0	0	12	0	0	14	0	0	0	0	0	0	0
Psidium sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sphaerium sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
Unionidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gastropoda																		
Basommatophora																		
Physella sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mesogastropoda																		
Amnicola sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Campeloma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleurocera sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viviparus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Platyhelminthes																		
Turbellaria																		
Tricladida																		
Planariidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	BELOW ABERDEEN L & D						JAMES CREEK			BUTTA RIVER BENDWAY					
	MAY 5			JULY 21			MAY 5			MAY 6			JULY 21		
	10	50	90	10	50	90	10*	50*	90*	10	50	90	10	50	90
Annelida															
Hirudinea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pharyngobdellida															
Erpobdellidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhynchobdellida															
Glossiphoniidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta	72	36	42	373	79	718	0	0	0	181	36	145	375	230	326
Plesiopora															
Branchiura sowerbyi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda															
Crustacea															
Amphipoda															
Crangonyx sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyalella azteca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decapoda															
Cambarus sp.	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0
Orconectes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palaemonetes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda															
Asellus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Insecta															
Coleoptera															
Berosus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dubiraphia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenelmis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera															
Ablabesmyia sp.	0	0	0	0	0	0	430	226	194	0	0	0	0	0	0
Ceratopogonidae	0	0	0	0	0	14	0	0	22	12	6	0	0	0	0
Chaoborus sp.	0	0	12	703	215	617	0	0	0	0	12	0	302	260	85
Chironomidae	175	85	54	57	29	43	65	54	32	85	24	133	61	12	54
Chironomus sp.	0	0	0	0	0	0	0	0	11	54	24	0	6	12	0
Clinotanypus sp.	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0
Coelotanypus sp.	0	0	0	0	14	115	0	0	0	18	0	42	36	12	42
Cryptochironomus sp.	42	42	36	0	14	43	0	118	36	0	6	0	6	0	0
Culicidae	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0
Dicrotendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epoicocladius sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eukiefferiella sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyptotendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Muscidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parachironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	BELOW ABERDEEN L & D						JAMES CREEK			BUTTA RIVER BENDWAY					
	MAY 5			JULY 21			MAY 5			MAY 6			JULY 21		
	10	50	90	10	50	90	10*	50*	90*	10	50	90	10	50	90
Paracladopelma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratendipes sp.	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0
Polypedilum sp.	0	0	12	0	0	14	32	11	0	0	91	0	6	12	0
Procladius sp.	0	0	0	14	0	14	0	0	0	48	0	79	12	0	0
Pseudochironomus	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0
Simuliidae	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0
Stenochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stictochironomus sp.	0	0	0	36	0	72	0	0	0	0	0	0	0	18	6
Tanypus sp.	0	0	0	0	0	0	0	0	0	0	0	0	121	212	18
Tipulidae	0	0	0	0	0	0	43	0	0	0	0	0	0	0	0
Tribelos sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Xenochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ephemeroptera															
Baetidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caenis sp.	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0
Haxagenia sp.	0	0	0	14	0	115	0	0	0	42	0	42	6	0	18
Isonychia sp.	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0
Leptophlebiidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenonema sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tricorythodes sp.	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0
Hemiptera															
Corixidae	0	0	0	0	0	0	22	11	0	0	0	0	0	0	0
Megaloptera															
Sialis sp.	0	0	0	0	0	0	0	0	0	0	0	0	18	0	48
Odonata															
Argia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Didymops sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enallagma sp.	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0
Gomphidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gomphus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trichoptera															
Cheumatopsyche sp.	0	0	0	0	0	0	75	0	0	0	0	0	0	0	0
Cyrnellus fraternus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydroptila sp.	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0
Limnephilidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macronema sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neureclipsis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oecetis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polycentropus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bryozoa															
Phylactolaemata															
Plumatellina															
Pectinatella magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	BELOW ABERDEEN L & D						JAMES CREEK			BUTTA RIVER BENDWAY					
	MAY 5			JULY 21			MAY 5			MAY 6			JULY 21		
	10	50	90	10	50	90	10*	50*	90*	10	50	90	10	50	90
Mollusca															
Bivalvia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontida															
Corbicula sp.	36	24	30	14	0	0	0	0	0	0	0	12	0	0	0
Psidium sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sphaerium sp.	0	0	0	0	0	0	11	11	0	0	0	0	0	0	0
Unionidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gastropoda															
Basommatophora															
Physella sp.	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
Mesogastropoda															
Amnicola sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Campeloma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleurocera sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viviparus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemata	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
Platyhelminthes															
Turbellaria															
Tricladida															
Planariidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* Number based on one sample.

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	KOLOLA SPRINGS MS						TIBBEE CREEK					COLUMBUS LAKE					
	MAY 6			JULY 22			MAY 6			JULY 22		MAY 6			JULY 21		
	10	50	90	10	50	90	10	50	90	10	90	10	50	90	10	50	90
Annelida																	
Hirudinea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pharyngobdellida																	
Erpobdellidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhynchobdellida																	
Glossiphoniidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta	14	0	86	0	14	91	43	187	0	0	810	54	84	254	12	18	0
Plesiopora																	
Branchiura sowerbyi	0	0	0	0	0	0	0	14	0	0	0	12	0	6	0	133	30
Arthropoda																	
Crustacea																	
Amphipoda																	
Crangonyx sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyalella azteca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decapoda																	
Cambarus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orconectes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palaemonetes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda																	
Asellus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Insecta																	
Coleoptera																	
Berosus sp.	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0
Dubiraphia sp.	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0
Stenelmis sp.	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0
Diptera																	
Ablabesmyia sp.	0	0	14	0	0	6	43	0	14	6	6	0	0	0	0	0	0
Ceratopogonidae	0	0	0	0	0	0	0	100	0	0	0	6	0	0	0	0	0
Chaoborus sp.	0	0	0	0	0	0	0	0	0	0	0	320	24	0	2,345	121	151
Chironomidae	0	6	29	6	24	6	172	100	29	0	61	24	42	30	0	30	18
Chironomus sp.	0	0	0	0	0	0	0	0	0	0	0	66	42	18	0	18	0
Clinotanypus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coelotanypus sp.	0	0	0	6	0	6	0	0	0	0	0	175	6	18	55	60	91
Cryptochironomus sp.	14	0	0	0	0	0	0	14	0	0	61	0	0	12	0	0	0
Culicidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicrotendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Epoicocladius sp.	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eukiefferiella sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyptotendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Muscidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parachironomus sp.	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	KOLOLA SPRINGS MS						TIBBEE CREEK					COLUMBUS LAKE					
	MAY 6			JULY 22			MAY 6			JULY 22		MAY 6			JULY 21		
	10	50	90	10	50	90	10	50	90	10	90	10	50	90	10	50	90
Paracladopelma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polypedilum sp.	0	0	43	0	0	0	0	0	6	0	12	0	0	0	0	0	0
Procladius sp.	0	0	12	29	0	0	42	258	0	0	12	133	375	139	6	18	0
Pseudochironomus	0	0	0	0	0	0	0	0	0	0	157	0	0	0	0	12	0
Simuliidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stictochironomus sp.	6	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0
Tanypus sp.	0	0	0	0	0	0	0	0	0	14	0	0	0	12	181	6	39
Tipulidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tribelos sp.	0	0	0	0	0	0	0	43	0	0	24	0	0	0	0	0	0
Xenochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ephemeroptera																	
Baetidae	0	0	0	0	0	0	0	0	14	0	6	0	0	0	0	0	0
Caenis sp.	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0
Hexagenia sp.	0	0	115	0	0	18	29	43	0	0	0	6	0	60	0	115	24
Isonychia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptophlebiidae	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0
Stenonema sp.	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tricorythodes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hemiptera																	
Corixidae	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0
Megaloptera																	
Sialis sp.	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0
Odonata																	
Argia sp.	0	0	0	0	0	0	0	0	0	6	6	0	0	0	0	0	0
Didymops sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enallagma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gomphidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gomphus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trichoptera																	
Cheumatopsyche sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyrnellus fraternus	0	0	0	0	0	0	0	0	0	6	0	0	6	0	0	6	0
Hydroptila sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limnephilidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macronema sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neureclipsis sp.	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0
Oecetis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polycentropus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bryozoa																	
Phylactolaemata																	
Plumatellina																	
Pectinatella magnifica	0	0	0	0	0	0	0	0	0	0	0	6	0	6	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	KOLOLA SPRINGS MS						TIBBEE CREEK					COLUMBUS LAKE					
	MAY 6			JULY 22			MAY 6			JULY 22		MAY 6			JULY 21		
	10	50	90	10	50	90	10	50	90	10	90	10	50	90	10	50	90
Mollusca																	
Bivalvia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontida																	
Corbicula sp.	14	0	0	6	6	0	14	0	0	0	12	0	0	6	0	0	0
Psidium sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sphaerium sp.	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	30	0
Unionidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gastropoda																	
Basommatophora																	
Physella sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
Mesogastropoda																	
Amnicola sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Campeloma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleurocera sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viviparus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemata	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0
Platyhelminthes																	
Turbellaria																	
Tricladida																	
Planariidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES
IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	BELOW COLUMBUS L & D						COLUMBUS BENDWAY						LUX CREEK					
	MAY 11			JULY 13			MAY 11			JULY 13			MAY 5			JULY 22		
	10	50	90	10	50	90	10	50	90	10	50	90	10	50	90	10	50	90
Annelida																		
Hirudinea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pharyngobdellida																		
Erpobdellidae	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhynchobdellida																		
Glossiphoniidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta	0	0	363	67	30	242	133	242	187	42	121	248	86	14	14	72	43	43
Plesiopora																		
Branchiura sowerbyi	0	0	0	0	0	0	6	12	42	0	0	0	0	0	0	0	0	0
Arthropoda																		
Crustacea																		
Amphipoda																		
Crangonyx sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyalella azteca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decapoda																		
Cambarus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orconectes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palaemonetes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda																		
Asellus sp.	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Insecta																		
Coleoptera																		
Berosus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dubiraphia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenelmis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0
Diptera																		
Ablabesmyia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
Ceratopogonidae	0	0	0	0	6	0	0	12	0	0	0	0	0	0	0	0	0	0
Chaoborus sp.	0	0	18	55	48	85	0	6	6	272	955	67	0	0	0	0	6	0
Chironomidae	36	54	12	6	12	36	66	72	103	169	73	30	14	43	43	36	0	0
Chironomus sp.	0	0	0	0	0	0	139	12	12	42	6	0	129	0	0	194	0	0
Clinotanypus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coelotanypus sp.	0	0	12	0	0	24	0	0	18	79	115	0	0	0	0	0	0	0
Cryptochironomus sp.	6	0	6	12	12	6	6	0	6	0	0	36	0	0	0	0	0	0
Culicidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicrotendipes sp.	12	109	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epoicocladius sp.	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
Eukiefferiella sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyptotendipes sp.	18	0	0	97	12	0	0	0	0	0	0	0	0	0	0	0	0	0
Muscidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parachironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	BELOW COLUMBUS L & D						COLUMBUS BENDWAY						LUX CREEK					
	MAY 11			JULY 13			MAY 11			JULY 13			MAY 5			JULY 22		
	10	50	90	10	50	90	10	50	90	10	50	90	10	50	90	10	50	90
Paracladopelma sp.	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0
Paratendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polypedilum sp.	0	0	0	0	0	0	145	0	163	0	0	0	0	0	0	0	0	0
Procladius sp.	0	0	0	0	0	0	0	12	72	12	30	12	0	0	0	0	0	0
Pseudochironomus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Simuliidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stictochironomus sp.	0	0	0	0	6	24	0	0	0	0	0	42	0	57	0	0	0	0
Tanypus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tipulidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tribelos sp.	0	0	0	0	0	0	0	0	0	0	0	0	6	6	0	0	0	0
Xenochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ephemeroptera																		
Bsetidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caenis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexagenia sp.	0	0	0	0	0	0	0	0	18	85	24	6	0	0	0	0	6	0
Isonychia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptophlebiidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenonems sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tricorythodes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hemiptera																		
Corixidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Megaloptera																		
Sialis sp.	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
Odonata																		
Argia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Didymops sp.	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
Enallagma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gomphidae	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
Gomphus sp.	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
Trichoptera																		
Cheumatopsyche sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyrnellus fraternus	0	0	0	24	12	18	0	0	0	0	24	0	0	0	0	0	0	0
Hydroptila sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limnephilidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macronema sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neureclipsis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oecetis sp.	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0
Polycentropus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bryozoa																		
Phylactolaemata																		
Plumatellina																		
Pectinatella magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	BELOW COLUMBUS L & D						COLUMBUS BENDWAY						LUX CREEK					
	MAY 11			JULY 13			MAY 11			JULY 13			MAY 5			JULY 22		
	10	50	90	10	50	90	10	50	90	10	50	90	10	50	90	10	50	90
Mollusca																		
Bivalvia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontida																		
Corbicula sp.	0	24	6	0	6	24	0	0	12	0	0	6	0	0	14	0	0	6
Psidium sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sphaerium sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unionidae	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0
Gastropoda																		
Basommatophora																		
Physella sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mesogastropoda																		
Amnicola sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Campeloma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleurocera sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viviparus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Platyhelminthes																		
Turbellaria																		
Tricladida																		
Planariidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES
IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	PRATT CAMP BENDWAY						ABOVE ALICEVILLE L & D						BELOW ALICEVILLE L & D					
	MAY 12			JULY 13			MAY 12			JULY 14			MAY 12			JULY 14		
	10	50	90	10	50	90	10	50	90	10*	50	90*	10	50	90	10	50*	90
Annelida																		
Hirudinea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pharyngobdellida																		
Erpobdellidae	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	12
Rhynchobdellida																		
Glossiphoniidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta	36	18	24	12	6	0	417	187	6	0	290	0	127	0	689	24	36	949
Plesiopora																		
Branchiura sowerbyi	0	0	0	0	0	24	6	0	0	0	0	18	0	0	12	0	0	0
Arthropoda																		
Crustacea																		
Amphipoda																		
Crangonyx sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyalella azteca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decapoda																		
Cambarus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orconectes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palaemonetes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda																		
Asellus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Insecta																		
Coleoptera																		
Berosus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dubiraphia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6
Stenelmis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera																		
Ablabesmyia sp.	0	0	0	0	0	0	24	0	0	0	6	0	0	0	0	6	0	0
Ceratopogonidae	36	0	12	0	0	18	6	0	0	0	24	0	0	6	18	0	0	30
Chaoborus sp.	242	314	713	677	1,045	242	54	61	12	145	411	18	0	6	12	133	145	85
Chironomidae	6	0	6	0	6	6	30	42	6	18	24	18	133	24	236	36	363	49
Chironomus sp.	423	54	24	0	0	12	0	42	18	254	85	91	91	6	30	0	0	0
Clinotanypus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coelotanypus sp.	18	24	6	6	6	217	12	103	272	508	91	91	0	0	12	0	0	30
Cryptochironomus sp.	0	0	0	0	0	0	0	0	0	0	30	18	36	0	18	48	54	24
Culicidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicrotendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	121	0	18	0	36	0
Epoicocladius sp.	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0
Eukiefferiella sp.	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
Glyptotendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	18	0	0
Muscidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	PRATT CAMP BENDWAY						ABOVE ALICEVILLE L & D						BELOW ALICEVILLE L & D					
	MAY 12			JULY 13			MAY 12			JULY 14			MAY 12			JULY 14		
	10	50	90	10	50	90	10	50	90	10*	50	90*	10	50	90	10	50*	90
Parachironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paracladopelma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polypedilum sp.	0	0	0	0	0	0	0	6	0	0	0	0	97	12	91	0	0	0
Procladius sp.	30	12	18	0	0	0	12	85	30	0	6	0	12	0	30	0	0	0
Pseudochironomus	0	0	0	0	0	0	0	0	0	0	0	0	30	6	0	0	0	0
Simuliidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stictochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145
Tanypus sp.	18	0	0	0	0	49	0	0	0	0	18	0	0	0	0	0	0	6
Tipulidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tribelos sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Xenochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	18	0
Ephemeroptera																		
Baetidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caenis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
Hexagenia sp.	12	0	0	0	0	12	54	0	151	0	0	54	0	0	36	0	0	0
Isonychia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptophlebiidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenonema sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tricorythodes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hemiptera																		
Corixidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Megaloptera																		
Sialis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odonata																		
Argia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Didymops sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enallagma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gomphidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gomphus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trichoptera																		
Cheumatopsyche sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyrnellus fraternus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
Hydroptila sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limnephilidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mscronema sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neureclipsis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oecetis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polycentropus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bryozoa																		
Phylactolaemata																		

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	PRATT CAMP BENDWAY						ABOVE ALICEVILLE L & D						BELOW ALICEVILLE L & D					
	MAY 12			JULY 13			MAY 12			JULY 14			MAY 12			JULY 14		
	10	50	90	10	50	90	10	50	90	10*	50	90*	10	50	90	10	50*	90
Plumatellina																		
Pectinatella magnifica	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0
Mollusca																		
Bivalvia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
Heterodontida																		
Corbicula sp.	0	0	0	0	0	0	0	0	0	0	0	0	6	0	61	0	0	18
Psidium sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sphaerium sp.	0	0	0	18	0	6	18	0	121	254	30	73	0	0	12	0	0	0
Unionidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gastropoda																		
Basommatophora																		
Physella sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mesogastropoda																		
Amnicola sp.	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
Campeloma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleurocera sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viviparus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Platyhelminthes																		
Turbellaria																		
Tricladida																		
Planariidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* Number based on one sample.

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	BIG CREEK BENDWAY						COOKS BENDWAY						ABOVE GAINESVILLE L & D					
	MAY 12			JULY 14			MAY 12			JULY 14			MAY 13			JULY 15		
	10	50	90	10	50	90*	10	50	90	10	50	90	10	50	90	10	50	90
Annelida																		
Hirudinea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pharyngobdellida																		
Erpobdellidae	0	0	0	6	0	18	0	0	0	0	0	0	0	0	0	0	0	0
Rhynchobdellida																		
Glossiphoniidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta	1,710	979	1,191	254	2,544	1,269	194	48	12	42	30	49	695	85	193	55	49	193
Plesiopora																		
Branchiura sowerbyi	0	0	0	0	0	0	18	0	0	0	0	0	0	0	6	0	0	0
Arthropoda																		
Crustacea																		
Amphipoda																		
Crangonyx sp.	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0
Hyalella azteca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decapoda																		
Cambarus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orconectes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palaemonetes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda																		
Asellus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Insecta																		
Coleoptera																		
Berosus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dubiraphia sp.	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenelmis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera																		
Ablabesmyia sp.	12	0	6	12	0	0	0	0	97	6	0	0	12	0	18	0	0	0
Ceratopogonidae	12	18	36	0	0	18	6	6	12	0	0	0	36	6	6	6	0	0
Chaoborus sp.	6	12	12	48	363	254	0	169	97	48	810	308	18	24	18	30	683	0
Chironomidae	127	84	73	0	48	73	103	48	60	73	12	151	54	30	145	79	0	0
Chironomus sp.	30	48	42	18	6	36	42	248	115	24	0	18	36	48	90	36	103	0
Clinotanypus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coelotanypus sp.	6	6	0	42	97	73	12	6	85	67	193	278	12	0	24	109	61	0
Cryptochironomus sp.	18	0	12	6	12	0	0	0	0	0	0	0	0	0	0	6	0	73
Culicidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicrotendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	12	0	18	0	0	0
Epoicocladius sp.	0	0	0	0	0	0	0	0	0	6	6	6	0	0	0	0	0	0
Eukiefferiella sp.	6	0	0	0	0	0	0	0	54	0	0	0	0	0	0	0	0	0
Glyptotendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Muscidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parachironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	BIG CREEK BENDWAY						COOKS BENDWAY						ABOVE GAINESVILLE L & D					
	MAY 12			JULY 14			MAY 12			JULY 14			MAY 13			JULY 15		
	10	50	90	10	50	90*	10	50	90	10	50	90	10	50	90	10	50	90
Paracladopelma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polypedilum sp.	0	18	0	0	0	0	0	0	0	18	18	12	0	0	6	0	0	0
Procladius sp.	181	91	139	6	36	18	85	115	48	6	0	0	0	36	48	6	24	0
Pseudochironomus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Simuliidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stictochironomus sp.	0	0	0	0	0	0	0	0	0	18	0	12	0	0	0	6	36	54
Tanypus sp.	12	6	0	0	91	18	0	0	0	0	0	0	0	0	0	0	0	0
Tipulidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tribelos sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Xenochironomus sp.	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	36	0	0
Ephemeroptera																		
Baetidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caenis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexagenia sp.	24	6	18	0	0	0	0	24	290	109	0	115	24	0	30	187	0	0
Isonychia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptophlebiidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenonema sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tricorythodes sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hemiptera																		
Corixidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Megaloptera																		
Sialis sp.	0	6	0	0	12	0	0	0	0	6	0	0	0	0	0	0	0	6
Odonata																		
Argia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Didymops sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enallagma sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gomphidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gomphus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trichoptera																		
Cheumatopsyche sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyrnellus fraternus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0	6	0
Hydroptila sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limnephilidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macronema sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neureclipsis sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oecetis sp.	0	0	0	0	0	18	0	0	6	0	0	6	0	0	0	0	0	0
Polycentropus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bryozoa																		
Phylactolaemata																		
Plumatellina																		
Pectinatella magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	BIG CREEK BENDWAY						COOKS BENDWAY						ABOVE GAINESVILLE L & D					
	MAY 12			JULY 14			MAY 12			JULY 14			MAY 13			JULY 15		
	10	50	90	10	50	90*	10	50	90	10	50	90	10	50	90	10	50	90
Mollusca																		
Bivalvia	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0
Heterodontida																		
Corbicula sp.	0	0	0	0	0	0	12	6	12	0	0	0	0	6	24	0	0	0
Psidium sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sphaerium sp.	0	0	0	0	6	18	0	0	30	6	6	85	0	0	0	175	0	0
Unionidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gastropoda																		
Basommatophora																		
Physella sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mesogastropoda																		
Amnicola sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
Campeloma sp.	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0
Pleurocera sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viviparus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Platyhelminthes																		
Turbellaria																		
Tricladida																		
Planariidae	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0

* Number based on one sample.

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987

	GAINESVILLE AL						ABOVE DEMOPOLIS L & D					
	MAY 13			JULY 15			MAY 13			JULY 15		
	10	50	90	10	30	90	10	50	90	10	50	90
Annelida												
Hirudinea	0	0	0	0	0	0	6	0	0	0	0	0
Pharyngobdellida												
Erpobdellidae	0	0	0	0	0	0	0	0	0	6	6	0
Rhynchobdellida												
Glossiphoniidae	6	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta	326	48	151	109	30	91	163	24	133	375	133	241
Plesiopora												
Branchiura sowerbyi	0	0	0	12	6	0	18	0	0	0	0	0
Arthropoda												
Crustacea												
Amphipoda												
Crangonyx sp.	0	0	0	0	0	0	0	0	0	0	0	0
Hyalella azteca	0	0	0	0	0	0	0	0	0	0	0	0
Decapoda												
Cambarus sp.	0	0	0	0	0	0	0	0	0	0	0	0
Orconectes sp.	0	0	0	0	0	0	0	0	0	0	0	0
Palaemonetes sp.	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda												
Asellus sp.	0	0	0	0	0	0	0	0	0	0	0	0
Insecta												
Coleoptera												
Berosus sp.	0	0	0	0	0	0	0	0	0	0	0	0
Dubiraphia sp.	0	0	0	0	0	0	0	0	0	0	0	0
Stenelmis sp.	0	0	6	0	0	0	0	0	0	0	0	0
Diptera												
Ablabesmyia sp.	0	6	18	6	0	12	0	0	0	0	0	0
Ceratopogonidae	0	0	0	0	0	0	6	6	0	18	0	18
Chaoborus sp.	12	0	6	30	6	6	48	42	24	0	194	6
Chironomidae	66	84	67	61	103	12	127	6	18	36	18	73
Chironomus sp.	6	0	66	0	0	0	6	42	12	0	6	0
Clinotanypus sp.	0	0	0	0	0	0	0	0	0	0	0	0
Coelotanypus sp.	0	0	0	0	0	6	84	0	0	36	85	48
Cryptochironomus sp.	48	30	24	30	67	30	6	0	12	12	6	48
Culicidae	0	0	0	0	0	0	0	0	0	0	0	0
Dicrotendipes sp.	0	0	0	0	0	0	0	0	0	0	0	6
Epoicocladius sp.	0	0	0	0	0	0	0	0	0	0	0	0
Eukiefferiella sp.	0	0	0	0	0	0	0	0	0	0	0	0
Glyptotendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0
Muscidae	0	0	0	0	0	0	0	0	0	0	6	0
Parachironomus sp.	0	0	0	0	0	0	0	0	0	0	6	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	GAINESVILLE AL						ABOVE DEMOPOLIS L & D					
	MAY 13			JULY 15			MAY 13			JULY 15		
	10	50	90	10	30	90	10	50	90	10	50	90
Paracladopelma sp.	0	0	0	0	0	0	0	0	0	0	0	0
Paratendipes sp.	0	0	0	0	0	0	0	0	0	0	0	0
Polypedilum sp.	0	48	121	0	0	6	0	0	6	0	0	12
Procladius sp.	0	0	0	0	0	0	115	66	6	48	24	54
Pseudochironomus	0	0	0	0	0	0	0	0	0	0	0	0
Simuliidae	0	0	0	0	0	0	0	0	0	0	0	0
Stenochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0
Stictochironomus sp.	0	0	6	0	0	0	0	0	0	18	0	0
Tanypus sp.	0	0	0	0	0	0	0	0	0	0	0	0
Tipulidae	0	0	0	0	0	0	0	0	0	0	0	0
Tribelos sp.	0	0	6	0	0	0	0	0	0	0	0	0
Xenochironomus sp.	0	0	0	0	6	0	0	0	0	12	0	0
Ephemeroptera												
Baetidae	0	0	0	0	0	0	0	0	0	0	0	0
Caenis sp.	0	6	0	0	0	0	0	0	0	0	0	0
Hexagenia sp.	0	0	0	0	0	0	48	0	0	0	0	6
Isonychia sp.	0	0	0	0	0	0	0	0	0	0	0	0
Leptophlebiidae	0	0	0	0	0	0	0	0	0	0	0	0
Stenonema sp.	0	0	0	0	0	0	0	0	0	0	0	0
Tricorythodes sp.	0	0	0	0	0	0	0	0	0	0	0	0
Hemiptera												
Corixidae	0	0	0	0	0	0	0	0	0	0	0	0
Megaloptera												
Sialis sp.	0	0	0	0	0	0	0	0	0	0	0	6
Odonata												
Argia sp.	0	0	0	0	0	0	0	0	0	0	0	0
Didymops sp.	0	0	0	0	0	0	0	0	0	0	0	0
Enallagma sp.	0	0	0	0	0	0	0	0	0	0	0	0
Gomphidae	0	0	0	0	0	0	0	0	0	0	0	0
Gomphus sp.	0	0	0	0	0	0	0	0	0	0	0	0
Trichoptera												
Cheumatopsyche sp.	0	0	0	0	0	0	0	0	0	0	0	0
Cyrnellus fraternus	0	6	0	0	0	12	0	0	0	0	0	0
Hydroptila sp.	0	0	0	0	0	0	0	0	0	0	0	0
Limnephilidae	0	0	0	0	0	0	0	0	0	0	0	0
Macronema sp.	0	0	0	0	0	0	0	0	0	0	0	0
Neureclipsis sp.	0	0	0	0	0	0	0	0	0	0	0	0
Oecetis sp.	0	0	0	0	0	6	0	0	0	0	0	0
Polycentropus sp.	0	0	0	0	0	0	0	0	0	0	0	0
Bryozoa												
Phylactolaemata												
Plumatellina												
Pectinatella magnifica	0	0	0	0	0	0	0	0	0	0	0	0

BENTHIC MACROINVERTEBRATE MEAN DENSITIES (NUMBER/SQUARE METER) FOR THREE REPLICATE SAMPLES IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, 1987 -- Continued

	GAINESVILLE AL						ABOVE DEMOPOLIS L & D					
	MAY 13			JULY 15			MAY 13			JULY 15		
	10	50	90	10	30	90	10	50	90	10	50	90
Mollusca												
Bivalvia	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontida												
Corbicula sp.	36	0	18	0	0	6	12	48	6	30	0	0
Psidium sp.	0	0	0	0	0	0	0	0	0	0	0	0
Sphaerium sp.	6	0	0	0	0	0	0	0	0	0	0	0
Unionidae	0	0	0	0	0	0	0	0	0	0	0	0
Gastropoda												
Basommatophora												
Physella sp.	0	0	0	0	0	0	0	0	0	0	0	0
Mesogastropoda												
Amnicola sp.	0	0	0	0	0	0	0	0	0	0	0	0
Campeloma sp.	0	0	0	0	0	0	6	0	0	0	0	0
Pleurocera sp.	0	0	0	0	0	0	0	0	0	6	0	0
Viviparus sp.	0	0	0	0	0	0	0	0	0	6	6	0
Nemata	0	0	0	0	0	0	0	0	0	12	0	0
Platyhelminthes												
Turbellaria												
Tricladida												
Planariidae	0	0	0	0	0	0	0	6	0	0	0	0