

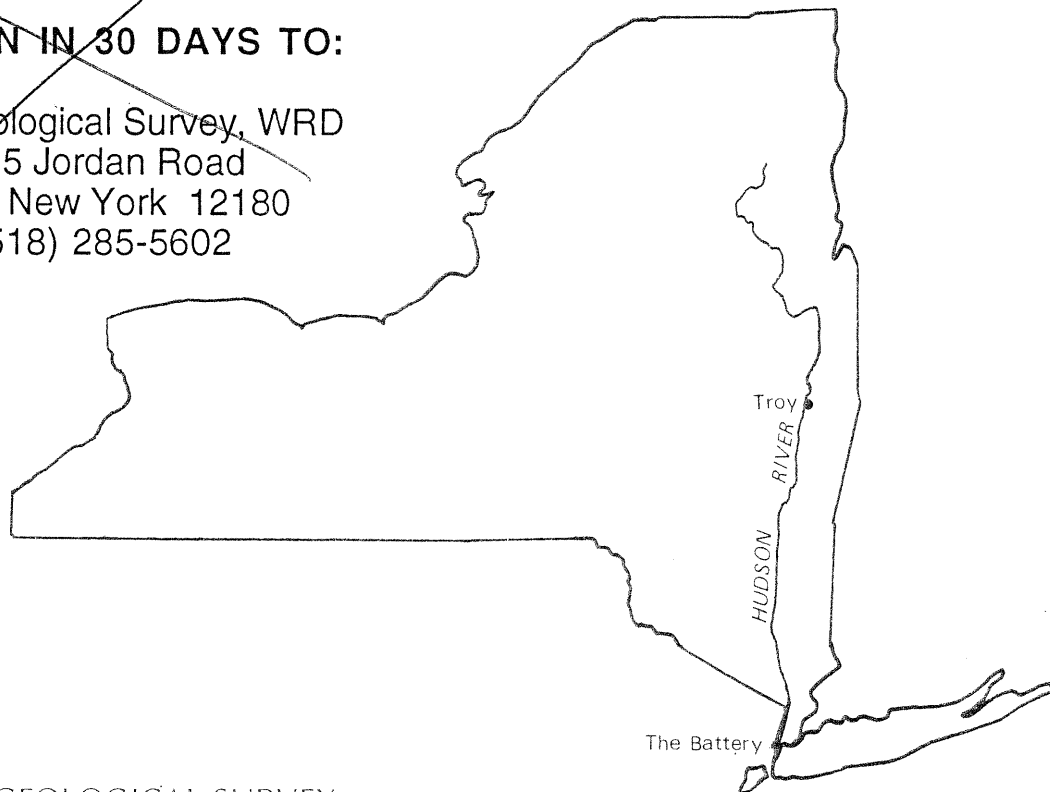
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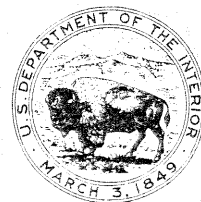


U.S. GEOLOGICAL SURVEY

Water-Resources Investigations 80-24

Prepared in cooperation with the

New York State Department of Environmental Conservation
New York City Department of Environmental Protection



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CROSS SECTIONS OF THE HUDSON RIVER ESTUARY FROM
TROY TO NEW YORK CITY, NEW YORK

By David A. Stedfast

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Albany, New York

November 1980

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

For additional information write to:

U.S. Geological Survey
343 U.S. Post Office & Courthouse
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CONVERSION FACTORS AND ABBREVIATIONS

The following factors may be used to convert inch-pound units to the International System of Units (SI).

<u>Multiply inch-pound units</u>	<u>By</u>	<u>To obtain SI units</u>
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)

CROSS SECTIONS OF THE HUDSON RIVER ESTUARY FROM TROY TO NEW YORK CITY, NEW YORK

By

David A. Stedfast

ABSTRACT

Data on channel geometry of the Hudson River estuary at 125 cross sections between the Federal Dam at Troy and the northern limits of New York City (133 miles) are presented for use in hydraulic modeling, tidal studies, traveltime and water-quality studies, and other uses requiring knowledge of Hudson River channel properties. The data were obtained from fathometer surveys of the estuary in 1966-69. Water-surface elevations were not recorded at times of fathometer runs but were calculated in 1979 from information on tide variations in the estuary and from stage data collected at Albany and New York City. Topographic maps and field reconnaissance were used to extend the ends of the cross sections beyond 100-year flood stage. Channel-configuration data are presented as perspective plots and in a table; also included are strip maps showing the location of the cross sections.

INTRODUCTION

The continued development of the water resources of the Hudson River estuary--the tide-affected reach between Troy and New York City--has caused a need for accurate data on river-channel configuration. This information is used in hydraulic and solute-transport modeling and in studies of such variables as tidal currents, time of travel, and flow volume, all of which have become important in water-management decisions and land-use planning. To date, little information on the channel geometry of the Hudson River estuary has been available.

Purpose and Scope

To depict the geometry of the Hudson River estuary, cross-section data that were collected by boat with a fathometer during 1966-69 were compiled for computer analysis. This report presents computer-generated plots of the 125 cross sections, lists channel-elevation data, and describes the methods used to derive this information.

Site Description

The Hudson River, in eastern New York State, flows south and east from its headwaters in the Adirondack Mountains to Glens Falls, where it begins its 180-mile southward course to its mouth at New York City. Thirty miles south of Glens Falls, the river flows over the Federal Dam at Troy, which marks the northern limit of the estuary. The location and major geographic features of the Hudson River estuary are shown in figure 1.

Acknowledgments

This study was done in cooperation with the New York State Department of Environmental Conservation and the New York City Department of Environmental Protection.

The U.S. Army Corps of Engineers (COE) at Troy provided data on river stage at Albany, and the National Oceanic and Atmospheric Administration (NOAA) in Maryland provided data on stage at The Battery, in New York City.

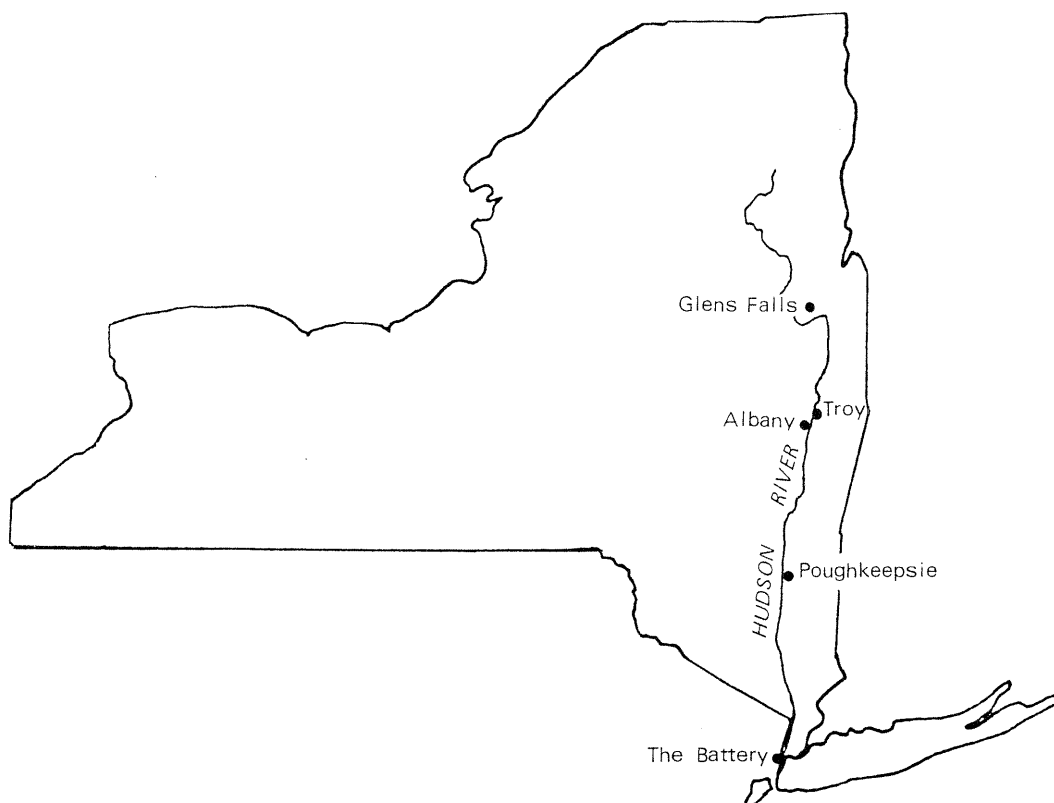


Figure 1.--Location and major geographic features of Hudson River estuary.

METHODS

The Hudson River estuary cross sections were delineated in several steps. First, field measurements of the underwater channel sections that had been made from a boat with a fathometer a decade earlier were digitized for use by computers. Second, the water-surface elevations at the times and locations of the fathometer runs were calculated for each cross section so that the riverbed elevations could be referenced to a common datum. Finally, the two ends of each cross section were extended from the end points determined by field survey to an elevation above flood stage.

Collection and Interpretation of Data

Field surveys of cross sections in the Hudson River estuary were made by the U.S. Geological Survey with a boat and fathometer during 1966-69 to collect data on streambed elevations. Preliminary work for that survey entailed (1) selection of cross sections on the basis of

hydraulic considerations, and (2) plotting the location of these sections on topographic maps. Sites were referenced in terms of river mileage, with zero at The Battery in New York City.

In 1977, the fathometer-survey data were digitized, and a computer program produced channel cross-section plots. The horizontal length for each cross section was measured from a topographic map to establish a scale for the fathometer charts.

Determination of Water-Surface Elevations

Hudson River water levels downstream from the Federal Dam at Troy are affected by tides. Because water-surface elevations had not been measured at all cross sections at the time of the fathometer runs, they had to be calculated.

The technique used to calculate water-surface elevations consisted of two steps. (1) The stage records collected at Albany and New York City during the time of fathometer runs were used with tide-adjustment information (U.S. Coast and Geodetic Survey, 1936) to determine the time and stage of high and low tide at the site of each fathometer run, and (2) water-surface elevations at the time of fathometer readings were then interpolated between high and low levels on the basis of a sine function.

Water-surface elevations that had been collected at a few cross sections near Poughkeepsie during some of the fathometer runs were later used to determine the degree of accuracy of the surface-elevation calculations. Comparison of stages recorded during five periods lasting from 0.5 to 1.5 tidal cycles were compared with the computed stages near Poughkeepsie, and it was found that the times of the highs and lows were accurate to within 0.1 hours, or 6 minutes. The average error in stage during all five comparison periods was 0.3 foot, which, at Poughkeepsie, could result in an error of approximately 1 percent in the cross-sectional area. Because Poughkeepsie is about halfway between Troy and New York City, the stage errors should be less toward Albany and New York City, where the actual stages are known.

Extension of Cross Sections

The cross-section end points, as determined from the fathometer charts, were all at or below normal high-tide stage. Because these sections may be used in hydraulic modeling, which requires that the ends extend at least to the anticipated flood stages, the cross sections were extended to above known peak flood stage; for most of the river, this is 10 feet above National Geodetic Vertical Datum (NGVD) of 1929. Near Albany, 7 miles south of Troy, the end points were extended to 20 feet above NGVD of 1929. Although this elevation is not above the highest recorded stage, it exceeds the estimated 100-year flood stage (U.S. Army Corps of Engineers, 1968). The information used in extending the cross sections was obtained from observer notes on the fathometer charts, contour interpolation on 7-1/2 minute topographic maps, and field reconnaissance.

PRESENTATION OF DATA

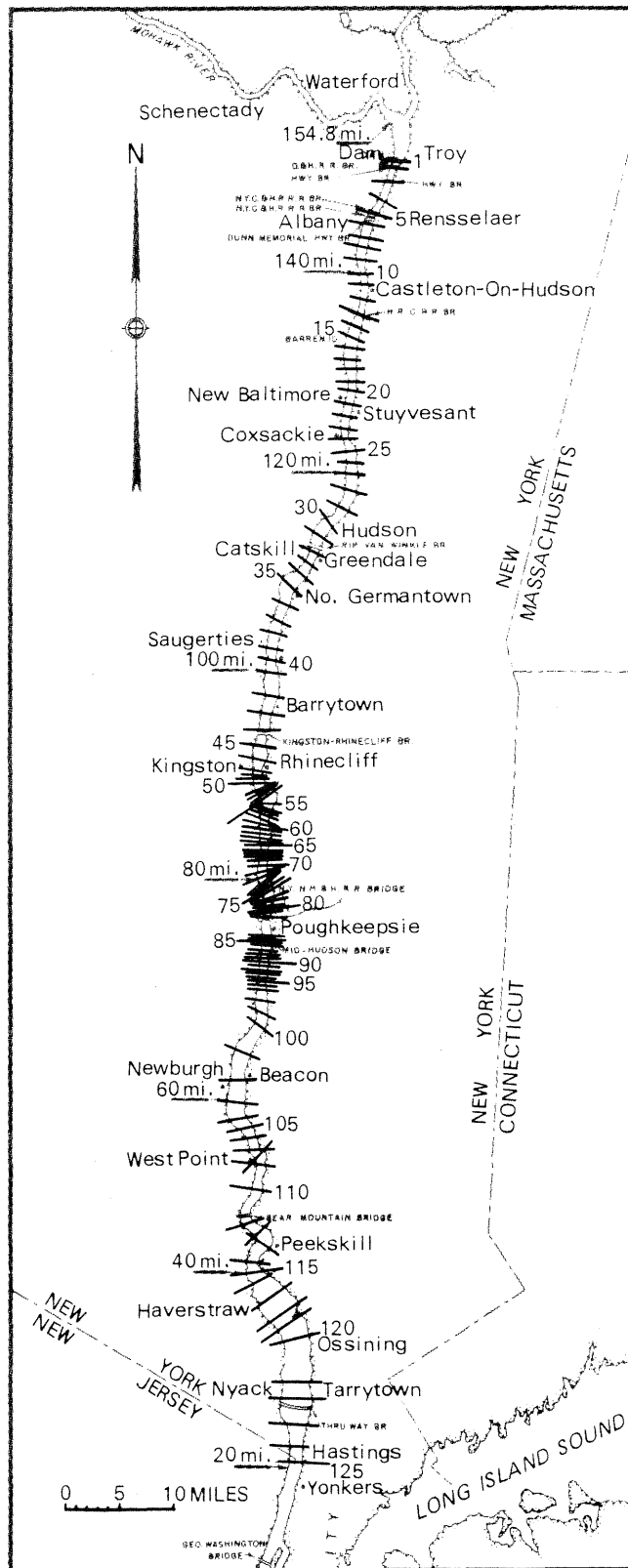
The Hudson River cross-section data are presented in two ways. The first is a series of "perspective plots," each consisting of five cross sections to give a visual interpretation of the channel configuration. The perspective plots were developed from a computer program (R. W. Schaffranek, U.S. Geological Survey, written commun., 1978) used to analyze river-channel geometry. They are plotted five per page at an angle of 75 degrees to give a three-dimensional view of the channel. The location, width, and depth of the cross sections, and also the length of each reach, are given in figure 2; the actual plots are presented in sequence in figure 3 (p. 39). The first cross section represents the upstream section of the estuary (just downstream from the Federal Dam); the others progress in sequence to the southernmost section (just upstream from New York City limits).

The second method of presentation is a tabulation of data. Table 1 (p. 9) lists, by section and stationing, the elevation of points in the cross sections. The river mile given for each section is measured upstream from The Battery in New York City, and the stationing of each section is given, in feet, from the left (east) bank. All elevations are given in feet above the National Geodetic Vertical Datum of 1929 (NGVD).

The field notes, original fathometer graphs, work maps, water-surface computations, and all other pertinent data used in this study are available for inspection in the files of the U.S. Geological Survey office in Albany, N.Y.

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- U.S. Army Corps of Engineers, 1968, Mohawk River and Catskill Creek, New York, review of reports for flood control: New York, U.S. Army Corps of Engineers, p. A-33.
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- U.S. Geological Survey, 7 1/2-minute quadrangle maps of New York State: U.S. Geological Survey, scale 1:24,000.
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Base from U.S. Army Corps of Engineers, 1962

Figure 2.--Hudson River estuary and location of cross sections depicted in figure 3.

TABLE 1

Riverbed Elevations of Hudson River Cross Sections

(Corresponding plots are given in figure 3, pp. 39-70.)

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

STATIONING (STAT.) IN FEET FROM EAST BANK
ELEVATIONS (ELEV.) IN FEET ABOVE NGVD
MILES ARE RIVER MILES NORTH OF THE BATTERY, NEW YORK CITY

STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	
500	20	530	2	555	-17	613	-17	620	-16	629	-16	634	-15	635	-15
636	-14	637	-12	638	-9	639	-6	640	-4	641	-2	662	-2	671	-1
1480	-1	1508	0	1588	0	1600	2	1601	20						
SECTION # 1 AT MILE 153.7															
470	20	525	2	546	-19	724	-19	732	-20	738	-21	749	-21	755	-21
757	-22	764	-21	774	-21	789	-20	806	-19	821	-18	827	-17	831	-16
850	-16	865	-17	871	-17	884	-18	892	-19	901	-20	954	-20	964	-19
973	-18	979	-15	985	-12	985	-12	996	-11	1000	-10	1009	-10	1015	-9
1019	-9	1032	-8	1097	-8	1106	-7	1125	-6	1133	-5	1144	-4	1156	-4
1158	-3	1167	-3	1180	2	1230	20								
SECTION # 2 AT MILE 152.2															
450	20	490	2	539	-9	545	-14	550	-16	556	-17	562	-19	575	-20
586	-20	598	-21	606	-21	612	-21	625	-21	651	-21	657	-21	670	-21
690	-20	709	-19	724	-19	737	-19	751	-19	776	-19	793	-19	799	-19
805	-19	807	-18	815	-15	819	-13	824	-13	829	-12	829	-13	825	-13
835	-14	839	-15	841	-15	846	-15	852	-15	899	-14	908	-14	950	-14
958	-14	962	-14	964	-14	972	-14	989	-14	1023	-13	1032	-13	1040	-13
1048	-12	1050	-11	1057	-10	1061	-9	1062	-8	1064	-7	1071	-7	1076	-7
1079	-7	1081	-6	1087	-6	1095	2	1130	10	1230	20				
SECTION # 3 AT MILE 150.2															
450	20	505	2	532	-7	548	-10	565	-15	581	-21	585	-25	589	-27
597	-27	607	-27	627	-27	651	-27	661	-27	671	-27	673	-28	684	-30
694	-32	696	-32	706	-32	716	-32	738	-33	750	-33	762	-33	770	-33
784	-33	793	-33	797	-32	799	-32	805	-31	813	-30	819	-29	831	-29
843	-28	857	-28	871	-28	887	-28	907	-28	926	-28	940	-27	950	-26
962	-25	972	-24	994	-19	998	-17	1020	-15	1033	-13	1043	-12	1049	-11
1055	-11	1055	-11	1061	-11	1067	-10	1073	-10	1089	-10	1105	-10	1115	2
1160	10	1161	20												
SECTION # 4 AT MILE 147.9															
300	20	340	10	440	2	458	-2	478	-3	502	-5	531	-8	544	-11
569	-16	573	-19	580	-22	584	-23	587	-24	596	-24	604	-24	604	-24
609	-25	636	-31	644	-31	656	-31	662	-31	669	-30	678	-30	689	-30
702	-31	718	-31	731	-32	745	-32	751	-32	762	-32	785	-32	793	-32
805	-32	813	-31	825	-31	849	-31	871	-30	880	-29	893	-27	909	-22
920	-17	927	-16	936	-15	947	-15	960	-15	1005	-15	1025	-15	1049	-15
1065	-15	1078	-15	1085	-14	1091	-15	1109	-15	1125	-16	1131	-16	1158	-15
1180	-14	1196	-14	1211	-14	1227	-14	1245	-15	1262	-15	1274	-16	1287	-16
1298	-16	1307	-16	1316	-16	1323	-16	1336	-15	1349	-14	1358	-14	1367	-13
1374	-13	1391	-13	1400	-12	1436	-11	1443	-10	1447	-10	1449	-9	1454	-8
1463	-8	1474	-8	1540	2	1570	10	1600	20						
SECTION # 5 AT MILE 146.4															

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

			SECTION # 6 AT MILE 145.0						
STAT.	ELEV.		STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	
450	20	520	2	550	-6	571	-10	588	-12
653	-13	677	-13	707	-12	716	-11	726	-11
793	-13	838	-14	869	-15	882	-15	895	-15
994	-15	1028	-15	1050	-14	1076	-14	1099	-13
1173	-13	1190	-13	1205	-13	1229	-14	1252	-14
1345	-13	1373	-13	1397	-12	1412	-12	1427	-12
1481	-9	1492	-8	1505	-7	1511	-6	1513	-4
1560	10	1750	20					1518	-4
								606	-13
								623	-13
								636	-13
								737	-11
								746	-12
								759	-12
								910	-15
								936	-15
								959	-15
								1123	-13
								1142	-13
								1153	-13
								1270	-14
								1306	-14
								1328	-13
								1451	-11
								1470	-10
								1530	2
			SECTION # 7 AT MILE 143.7						
350	20	530	10	550	2	559	-8	559	-12
660	-21	676	-21	700	-22	718	-23	742	-26
806	-31	820	-32	828	-33	838	-33	849	-33
905	-32	934	-32	963	-33	998	-34	1030	-34
1139	-35	1163	-35	1179	-35	1195	-35	1192	-36
1248	-35	1267	-34	1278	-35	1296	-35	1312	-35
1352	-36	1363	-35	1379	-34	1384	-34	1392	-34
1424	-34	1443	-34	1448	-33	1461	-32	1472	-29
1517	-21	1523	-19	1527	-18	1535	-16	1536	-14
1540	-8	1550	2	1560	10	1750	20	1537	-13
								572	-15
								599	-17
								630	-19
								764	-28
								782	-30
								796	-31
								860	-33
								870	-33
								889	-32
								1112	-35
								1120	-35
								1206	-37
								1219	-37
								1230	-36
								1260	-37
								1296	-35
								1320	-35
								1328	-36
								1344	-36
								1400	-34
								1408	-34
								1419	-34
								1483	-27
								1499	-25
								1504	-23
								1538	-11
								1539	-10
			SECTION # 8 AT MILE 142.5						
200	20	430	10	530	2	559	-7	577	-9
651	-22	667	-23	669	-24	674	-30	677	-32
741	-33	749	-34	769	-35	807	-36	823	-37
877	-34	892	-34	905	-34	907	-35	918	-35
961	-35	971	-35	979	-35	994	-35	1005	-35
1074	-34	1092	-34	1107	-34	1133	-35	1141	-35
1184	-34	1207	-23	1207	-19	1210	-18	1217	-18
1266	-16	1271	-16	1279	-15	1287	-15	1294	-15
1333	-9	1338	-8	1345	-8	1353	-8	1361	-8
1500	20							1379	-8
								595	-13
								613	-17
								631	-20
								690	-33
								700	-33
								710	-33
								836	-37
								838	-36
								859	-35
								933	-35
								946	-35
								951	-35
								1030	-35
								1056	-34
								1064	-34
								1148	-35
								1171	-34
								1181	-34
								1225	-17
								1238	-17
								1248	-17
								1310	-15
								1322	-13
								1328	-10
								1360	20
								1400	2
								1430	10
			SECTION # 9 AT MILE 141.2						
400	20	420	2	459	-2	493	-3	522	-3
635	-11	670	-12	714	-14	746	-17	766	-19
840	-35	875	-35	907	-36	936	-36	955	-36
1012	-37	1019	-37	1027	-38	1038	-37	1058	-38
1132	-38	1145	-37	1154	-37	1160	-36	1169	-37
1210	-29	1217	-24	1226	-17	1239	-12	1245	-10
								1252	-9
								570	-5
								607	-7
								622	-10
								781	-25
								805	-31
								822	-33
								966	-35
								973	-35
								992	-36
								1086	-38
								1104	-38
								1112	-38
								1175	-37
								1189	-37
								1191	-36
								1300	2
								1360	20
			SECTION # 10 AT MILE 139.9						
100	20	525	2	553	-7	592	-10	618	-12
761	-19	777	-20	793	-20	810	-20	819	-19
858	-20	863	-21	927	-31	976	-37	999	-38
1050	-38	1073	-38	1091	-37	1119	-37	1142	-38
1225	-37	1272	-35	1308	-34	1334	-33	1345	-32
1373	-19	1373	-15	1373	-13	1380	-12	1403	-8
1456	-7	1470	-7	1486	-7	1503	-6	1514	-6
2200	10	2400	20					655	-14
								692	-16
								740	-19
								828	-19
								840	-20
								846	-20
								1011	-38
								1024	-38
								1036	-38
								1168	-38
								1186	-38
								1202	-37
								1352	-31
								1357	-30
								1373	-29
								1412	-7
								1417	-7
								1429	-7
								1523	-6
								1530	2
								1600	8

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

			SECTION # 11 AT MILE 138.5								
STAT. ELEV.			STAT. ELEV.			STAT. ELEV.			STAT. ELEV.		
200	10	400	8	420	2	454	-8	475	-8	495	-8
587	-17	600	-19	655	-21	664	-22	671	-25	684	-30
764	-35	821	-37	848	-38	862	-37	871	-37	880	-37
924	-37	958	-38	974	-38	992	-38	1005	-37	1017	-37
1065	-38	1078	-37	1085	-36	1097	-33	1101	-32	1117	-31
1156	-25	1158	-20	1165	-18	1179	-17	1231	-15	1286	-14
1363	-13	1383	-12	1404	-10	1445	-9	1493	-8	1543	-7
1602	-7	1620	2	1680	8	1900	10	2000	20	1572	-7
			SECTION # 12 AT MILE 137.3								
STAT. ELEV.			STAT. ELEV.			STAT. ELEV.			STAT. ELEV.		
400	20	440	2	544	-2	643	-3	682	-5	690	-7
732	-16	748	-17	777	-18	785	-18	793	-18	797	-19
825	-34	837	-36	847	-36	859	-37	874	-37	886	-36
936	-37	946	-36	997	-36	1025	-36	1057	-36	1086	-36
1136	-36	1148	-36	1152	-35	1158	-35	1180	-35	1199	-35
1231	-32	1249	-26	1261	-22	1273	-19	1287	-18	1295	-18
1435	-12	1469	-10	1489	-9	1520	-7	1534	-6	1552	-5
1588	-3	1650	2	1750	8	1850	10	3700	10	3720	20
			SECTION # 13 AT MILE 135.8								
STAT. ELEV.			STAT. ELEV.			STAT. ELEV.			STAT. ELEV.		
0	20	330	10	480	2	502	-3	537	-4	576	-5
617	-12	643	-14	658	-15	689	-16	739	-16	778	-16
880	-20	899	-21	923	-20	971	-18	986	-18	995	-18
1025	-32	1036	-34	1053	-35	1082	-36	1129	-37	1270	-40
1346	-38	1366	-38	1381	-38	1407	-37	1429	-37	1444	-36
1474	-28	1496	-20	1540	2	1580	10	1600	20	1453	-34
			SECTION # 14 AT MILE 134.8								
STAT. ELEV.			STAT. ELEV.			STAT. ELEV.			STAT. ELEV.		
0	20	1	10	400	8	470	3	498	-3	528	-3
713	-7	805	-8	940	-12	1083	-16	1099	-17	1116	-21
1148	-31	1150	-34	1178	-37	1208	-38	1247	-38	1264	-38
1342	-37	1361	-37	1382	-38	1472	-37	1493	-37	1514	-38
1557	-37	1560	-36	1567	-32	1576	-26	1595	-22	1608	-18
1669	-9	1678	-7	1692	-8	1730	3	1780	10	1790	20
			SECTION # 15 AT MILE 133.5								
STAT. ELEV.			STAT. ELEV.			STAT. ELEV.			STAT. ELEV.		
0	20	1	10	300	8	400	3	498	-1	558	-2
685	-11	717	-22	726	-28	775	-32	822	-34	885	-36
1132	-35	1164	-34	1237	-32	1291	-30	1332	-27	1362	-24
1405	-9	1446	-2	1526	0	1551	0	1562	-1	1571	-2
1648	-6	1670	-7	1689	-8	1704	-8	1732	-7	1760	-5
1824	-2	1846	-1	1876	0	1880	3	2000	8	2150	10
			SECTION # 16 AT MILE 132.4								
STAT. ELEV.			STAT. ELEV.			STAT. ELEV.			STAT. ELEV.		
0	20	1	10	400	-8	480	3	500	-27	596	-35
632	-37	808	-37	853	-38	940	-36	996	-37	1015	-37
1098	-30	1105	-27	1164	-22	1220	-18	1286	-13	1371	-9
1480	3	1600	8	2000	10	2001	20			1441	-5

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

SECTION # 17 AT MILE 131.2											
STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.
200	20	201	10	450	8	540	3	548	-9	569	-12
650	-34	654	-35	664	-36	666	-35	668	-36	689	-36
729	-36	739	-37	760	-38	772	-38	785	-38	804	-37
833	-36	845	-36	854	-37	870	-37	895	-38	912	-38
964	-37	966	-36	978	-36	991	-36	1012	-37	1022	-36
1060	-32	1072	-28	1082	-28	1105	-27	1118	-27	1136	-26
1211	-17	1224	-16	1236	-16	1249	-15	1268	-14	1292	-13
1342	-7	1342	-5	1347	-4	1359	-3	1363	-2	1372	-2
1403	-1	1430	3	1500	20					1384	-1
											</

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

STAT. ELEV.			STAT. ELEV.			STAT. ELEV.			SECTION # 21 AT MILE 126.6		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	
220	10		280	-2		430	-4		480	-5	523	-6	554	-8	628	-18	678	-29
738	-36		775	-38		802	-39		822	-39	873	-39	903	-39	930	-39	957	-40
1020	-41		1040	-42		1051	-42		1121	-42	1138	-42	1161	-42	1192	-43	1333	-47
1359	-47		1366	-48		1390	-48		1423	-48	1440	-48	1447	-47	1453	-46	1477	-40
1500	-39		1554	-35		1578	-32		1665	-11	1688	-7	1695	-6	1709	-6	1725	-6
1752	-7		1789	-8		1806	-8		1819	-8	1829	-8	1850	-6	1860	-6	1876	-6
1890	-6		1903	-7		1910	-9		1917	-9	1923	-10	1933	-9	1954	-9	1957	-9
1967	-10		1977	-11		1997	-11		2011	-11	2038	-11	2051	-6	2058	-6	2071	-5
2088	-5		2105	-4		2230	-2		2280	10								
SECTION # 22 AT MILE 126.0																		
300	10		480	-2		555	-5		634	-6	666	-7	684	-7	695	-7	721	-12
758	-14		826	-18		860	-23		879	-24	900	-26	918	-32	942	-36	1000	-39
1081	-40		1136	-40		1192	-40		1205	-40	1218	-40	1250	-40	1284	-40	1321	-39
1360	-38		1397	-38		1502	-37		1557	-35	1576	-33	1599	-26	1639	-17	1652	-15
1662	-14		1670	-14		1678	-13		1685	-2	1800	8	2200	8	2300	-2	2325	-6
2349	-7		2375	-6		2414	-17		2459	-14	2504	-16	2564	-15	2623	-15	2713	-12
2772	-12		2823	-13		2921	-6		2972	-6	3020	-2	3120	20				
SECTION # 23 AT MILE 124.9																		
450	20		490	-2		547	-4		594	-6	639	-8	658	-10	663	-16	691	-28
697	-35		733	-38		772	-39		805	-40	852	-40	891	-40	907	-40	932	-40
982	-40		1032	-40		1074	-40		1090	-40	1107	-40	1126	-39	1132	-38	1151	-37
1237	-27		1276	-18		1315	-15		1389	-11	1462	-8	1534	-7	1614	-6	1705	-7
1777	-7		1805	-7		1861	-8		1991	-11	2063	-13	2115	-14	2179	-14	2249	-14
2337	-13		2373	-13		2404	-12		2420	-10	2448	-6	2454	-5	2473	-4	2484	-4
2501	-4		2510	-2		3100	-2		3350	10								
SECTION # 24 AT MILE 123.7																		
100	10		300	8		435	-2		442	-10	452	-12	460	-12	468	-12	471	-10
479	-10		489	-10		511	-14		513	-14	524	-14	548	-11	553	-10	561	-11
590	-15		598	-15		603	-15		632	-9	645	-9	709	-19	722	-19	761	-14
769	-13		775	-14		788	-15		804	-15	809	-15	814	-13	814	-13	825	-13
827	-13		846	-16		854	-16		864	-16	875	-15	883	-15	894	-16	925	-19
936	-18		952	-17		965	-17		973	-16	986	-17	994	-19	1007	-19	1010	-18
1015	-18		1028	-18		1041	-20		1049	-20	1049	-19	1065	-17	1068	-16	1076	-16
1086	-17		1092	-18		1136	-34		1173	-37	1276	-41	1295	-41	1311	-41	1335	-41
1345	-41		1393	-40		1411	-39		1422	-39	1430	-40	1445	-41	1461	-41	1482	-42
1530	-41		1570	-40		1588	-39		1599	-38	1607	-36	1625	-22	1670	-16	1694	-13
1728	-10		1760	-9		1770	-2		1800	10								
SECTION # 25 AT MILE 122.3																		
350	10		390	-2		419	-4		454	-5	477	-5	500	-6	550	-13	627	-22
685	-26		716	-29		723	-29		746	-29	766	-29	800	-27	827	-26	858	-23
904	-18		923	-13		927	-11		950	-9	966	-8	970	-8	1040	-2	1150	8
1950	8		2100	-2		2175	-7		2202	-8	2236	-9	2255	-11	2329	-22	2382	-31
2498	-37		2567	-39		2586	-40		2621	-40	2660	-39	2679	-39	2702	-39	2733	-40
2779	-40		2806	-40		2848	-40		2875	-40	2906	-40	2994	-41	3018	-41	3044	-41
3071	-40		3095	-38		3152	-29		3168	-28	3187	-27	3241	-26	3283	-24	3356	-21
3391	-19		3399	-16		3414	-11		3426	-9	3429	-9	3433	-8	3449	-8	3480	-2
3520	20																	

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

SECTION # 26 AT MILE 121.0											
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
150 10	260 -2	564 -4	700 -6	836 -8	860 -12	920 -19	1014 -28	1150 -33	1396 -37	1558 -38	1880 -39
2636 -32	2670 -32	2696 -32	2720 -32	2720 -33	2746 -33	2788 -33	2806 -31	2856 -30	2942 -29	3060 -29	3162 -29
3468 -16	3536 -14	3588 -12	3672 -10	3740 -8	3792 -7	3826 -6	3902 -6	4000 -2	4150 10		
SECTION # 27 AT MILE 120.0											
0 10	200 -2	406 -5	496 -7	613 -8	658 -9	680 -10	759 -17	816 -21	861 -24	913 -30	959 -36
1297 -39	1368 -38	1436 -36	1481 -34	1534 -29	1583 -21	1616 -19	1169 -40	1827 -15	1902 -13	1925 -13	2004 -13
2981 -13	3052 -13	3113 -13	3176 -14	3222 -14	3252 -14	3274 -14	3300 -13	3319 -13	3342 -13	3368 -14	3402 -15
3699 -15	3850 -2	3900 8	4100 10		3545 -16	3601 -16	3646 -16				
SECTION # 28 AT MILE 118.9											
270 10	300 -2	500 -4	635 -6	684 -7	718 -8	729 -10	729 -12	733 -17	737 -20	747 -24	759 -29
958 -40	1049 -40	1142 -39	1236 -39	1296 -38	1334 -37	1368 -35	1375 -33	1387 -32	1424 -30	1443 -28	1458 -25
1518 -12	1544 -9	1601 -6	1661 -5	1720 -2	1800 8	2700 8	2800 -2	2845 -5	2887 -6	2962 -10	3026 -12
3296 -16	3334 -16	3364 -16	3420 -17	3477 -17	3503 -18	3571 -18	3623 -18	3646 -19	3676 -19	3680 -20	3691 -21
3770 -19	3785 -19	3804 -19	3826 -19	3864 -20	3912 -20	3976 -20	4183 -17	4198 -17	4221 -16	4243 -17	4281 -17
4461 -8	4461 -6	4476 -5	4491 -4	4510 -2	4540 8	4800 10	4442 -11				
SECTION # 29 AT MILE 117.4											
350 10	440 -2	516 -4	574 -5	612 -7	648 -9	674 -11	696 -14	735 -20	738 -22	773 -26	796 -28
860 -38	889 -39	943 -39	1004 -40	1027 -40	1059 -39	1091 -39	1123 -39	1139 -38	1188 -40	1213 -40	1255 -40
1368 -38	1384 -39	1441 -41	1461 -43	1486 -43	1499 -43	1515 -42	1531 -40	1544 -38	1554 -33	1564 -27	1589 -22
1679 -16	1702 -17	1740 -19	1811 -20	1984 -22	2033 -23	2058 -23	2087 -22	2135 -21	2235 -18	2258 -18	2302 -18
2601 -16	2669 -16	2784 -15	2887 -13	2974 -12	3048 -12	3109 -12	3183 -12	3209 -11	3250 -11	3302 -9	3327 -8
SECTION # 30 AT MILE 116.3											
570 10	600 0	1500 -4	1528 -5	1560 -7	1579 -12	1598 -17	1626 -22	1648 -25	1664 -29	1683 -33	1698 -37
1758 -39	1768 -39	1777 -39	1793 -40	1809 -40	1824 -40	1850 -40	1872 -40	1894 -42	1906 -42	1919 -42	1944 -42
2168 -44	2187 -44	2231 -43	2265 -43	2281 -42	2319 -39	2328 -39	2350 -39	2360 -39	2373 -40	2391 -40	2439 -40
2725 -29	2760 -26	2782 -24	2795 -21	2795 -18	2810 -16	2832 -14	2839 -12	2848 -8	2870 -6	2911 -5	2955 -4
				3012 -4	3037 -4	4700 0	4800 20				

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

SECTION # 31 AT MILE 114.9											
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
440 10	490 -2	497 -8	505 -7	525 -9	555 -11	588 -13	616 -15	649 -17	676 -18	704 -18	727 -18
908 -12	944 -12	966 -12	987 -11	1004 -11	1039 -10	1062 -10	1082 -10	1105 -11	1130 -12	1158 -13	1241 -17
1405 -32	1445 -35	1463 -36	1491 -37	1521 -38	1556 -40	1599 -41	1629 -42	1665 -42	1690 -42	1710 -43	1723 -43
1856 -36	1897 -33	1932 -30	1962 -28	1990 -27	2013 -26	2048 -25	2063 -24	2134 -20	2171 -17	2217 -12	2257 -8

SECTION # 32 AT MILE 113.8															
100	20	200	0	505	-3	539	-3	571	-4	588	-6	598	-9	620	-12
637	-14	647	-15	667	-15	689	-15	780	-9	809	-8	836	-7	893	-6
949	-5	964	-5	993	-5	1035	-6	1065	-6	1089	-6	1114	-5	1136	-5
1151	-4	1178	-5	1246	-7	1308	-9	1340	-9	1362	-9	1379	-7	1408	-7
1445	-5	1470	-4	1497	-4	1536	-4	1578	-4	1622	-3	1693	-4	1762	-4
1833	-4	1865	-4	1939	-6	1995	-6	2047	-6	2071	-6	2145	-7	2177	-7
2221	-7	2302	-7	2327	-7	2349	-8	2368	-9	2378	-11	2388	-14	2390	-18
2405	-22	2422	-25	2454	-29	2486	-33	2543	-38	2594	-43	2717	-54	2759	-56
2773	-56	2791	-56	2813	-53	2845	-50	2903	-48	2960	-46	3002	-44	3043	-41
3073	-39	3097	-36	3110	-33	3122	-29	3129	-25	3139	-19	3154	-16	3169	-13
3198	-9	3223	-6	3252	-5	3450	-2	3490	20						

SECTION # 33 AT MILE 112.4															
180	20	280	-2	487	-10	522	-12	560	-17	598	-21	630	-26	667	-30
721	-35	781	-39	841	-44	901	-47	930	-49	949	-49	977	-49	1037	-47
1167	-44	1312	-40	1457	-36	1495	-35	1527	-35	1549	-35	1568	-35	1600	-35
1688	-32	1802	-28	1950	-22	2017	-20	2064	-16	2096	-12	2115	-8	2137	-6
2162	-4	2194	-4	2270	-2	2400	6	4500	10						

SECTION # 34 AT MILE 110.5															
300	10	350	-2	503	-3	593	-4	642	-6	673	-8	686	-10	695	-12
738	-15	794	-18	856	-22	930	-25	1017	-28	1082	-30	1101	-30	1119	-30
1150	-29	1187	-29	1237	-30	1265	-30	1299	-29	1320	-29	1345	-29	1382	-29
1410	-29	1429	-29	1463	-30	1519	-31	1553	-30	1590	-30	1615	-30	1664	-30
1707	-31	1813	-34	1912	-36	1971	-37	2063	-38	2138	-38	2231	-38	2314	-38
2364	-37	2423	-36	2481	-33	2550	-30	2590	-27	2633	-25	2670	-23	2707	-19
2735	-17	2757	-15	2782	-13	2825	-9	2875	-8	2940	-7	3008	-6	3073	-5
3098	-5	4200	-2	4300	20										

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

SECTION # 35 AT MILE 109.1											
STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.
450	10	480	4	509	-2	572	-3	644	-5	688	-6
760	-17	786	-20	815	-22	844	-22	913	-23	962	-25
1118	-26	1139	-27	1208	-26	1228	-27	1260	-27	1275	-27
1575	-23	1676	-22	1720	-22	1760	-23	1795	-24	1850	-28
1983	-36	2020	-36	2089	-37	2170	-37	2240	-36	2309	-34
2483	-27	2540	-23	2578	-19	2633	-13	2694	-8	2720	-8
2855	-8	2893	-8	2928	-10	2954	-10	2974	-9	3029	-6
3170	-5	3202	-4	3251	-5	3289	-5	3298	-6	3329	-9
3523	-6	3543	-6	3558	-5	3569	-5	3587	-6	3621	-9
3693	-9	3702	-6	3702	-4	3728	-3	3783	-2	3902	-3
4237	-1	4300	-1	4352	-1	4523	-2	4650	-1	4771	-1
6670	4	6700	20								

SECTION # 36 AT MILE 107.6															
430	10	460	4	483	-1	527	-2	575	-2	617	-3	673	-4	726	-4
943	-4	1120	-3	1281	-2	1432	-3	1546	-2	1758	-3	1860	-2	1906	-3
1994	-4	2057	-5	2120	-7	2142	-8	2150	-9	2159	-14	2171	-15	2198	-17
2225	-18	2257	-19	2352	-20	2432	-22	2529	-23	2607	-25	2685	-26	2748	-27
2785	-27	2836	-27	2923	-25	2999	-24	3072	-22	3188	-19	3225	-18	3252	-18
3291	-19	3339	-19	3388	-21	3432	-23	3463	-24	3497	-27	3561	-32	3626	-37
3680	-39	3736	-40	3797	-41	3853	-42	3909	-41	3965	-40	4006	-40	4062	-39
4086	-38	4111	-37	4135	-35	4145	-33	4157	-30	4169	-27	4176	-23	4188	-20
4201	-19	4218	-18	4240	4	4350	10								

SECTION # 37 AT MILE 105.4															
450	10	480	4	523	-2	552	-2	582	-3	588	-4	598	-7	613	-10
631	-12	655	-15	678	-17	704	-20	729	-22	771	-25	815	-28	845	-29
866	-29	887	-29	910	-28	923	-27	959	-24	980	-22	1010	-17	1028	-14
1039	-11	1044	-8	1049	-6	1067	-4	1101	-3	1145	-3	1222	-2	1348	-2
1480	-2	1596	-3	1745	-4	1807	-5	1859	-7	1915	-10	1944	-11	1995	-13
2047	-15	2124	-21	2178	-24	2245	-28	2307	-30	2330	-31	2351	-31	2379	-31
2444	-30	2488	-30	2531	-31	2622	-32	2709	-34	2776	-35	2885	-37	2962	-38
3011	-39	3055	-40	3106	-40	3145	-40	3179	-40	3199	-41	3220	-41	3238	-40
3264	-40	3289	-40	3307	-40	3320	-40	3356	-37	3382	-35	3439	-30	3485	-26
3532	-22	3565	-20	3576	-18	3599	-14	3612	-12	3619	-9	3625	-7	3650	-5
3681	-4	3730	-3	3792	-2	3846	-2	3875	4	3930	20				

SECTION # 38 AT MILE 104.0															
400	20	485	4	502	-7	502	-10	521	-11	545	-12	573	-17	597	-21
621	-25	645	-30	675	-35	694	-36	728	-37	758	-37	782	-38	865	-40
886	-40	924	-40	965	-38	998	-35	1043	-28	1064	-23	1085	-17	1114	-12
1130	-7	1145	-3	1154	-2	1187	-2	1228	-1	1486	-1	1538	-1	1552	-1
1725	-1	1965	-1	2199	-1	2441	-1	2512	-1	2673	-1	2742	-1	2775	-2
2823	-2	2839	-3	2868	-5	2879	-7	2879	-12	2891	-17	2908	-22	2917	-27
2934	-29	2970	-32	3057	-36	3150	-41	3218	-44	3330	-48	3422	-50	3481	-52
3510	-52	3529	-52	3543	-52	3567	-50	3595	-47	3669	-43	3737	-37	3787	-33
3830	-28	3873	-24	3929	-20	3963	-17	4012	-12	4060	-9	4098	-7	4143	-5
4202	-5	4261	-4	4337	-4	4377	-4	4399	-3	4410	4	4450	20		

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

			SECTION # 39 AT MILE 102.5								
STAT. ELEV.			STAT. ELEV.		STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.		STAT. ELEV.
420	20	480	4	514	-7	535	-11	547	-14	559	-21
583	-36	590	-39	601	-41	611	-44	623	-48	637	-51
682	-57	689	-60	708	-63	745	-66	769	-67	800	-68
873	-62	892	-62	915	-63	939	-64	953	-64	967	-64
1026	-58	1045	-57	1073	-57	1132	-53	1199	-49	1232	-47
1307	-45	1340	-44	1463	-39	1553	-35	1614	-31	1663	-24
1739	-7	1770	-5	1803	-3	1845	-3	1907	-2	2001	-2
2216	-1	2275	1	2308	2	2336	2	2380	4	2500	8
										4700	10
										573	-30
										665	-54
										823	-67
										996	-60
										1246	-46
										1697	-17
										2074	-2
										2159	-1

			SECTION # 40 AT MILE 101.0								
700	10	730	3	496	-2	540	-2	573	-3	619	-2
761	-3	805	-4	825	-4	836	-5	2195	-4	2208	-6
2387	-50	2398	-50	2416	-50	2540	-45	2595	-43	2619	-41
2743	-38	2803	-37	2825	-36	2851	-35	2882	-34	2909	-34
2997	-32	3070	-28	3108	-28	3148	-27	3203	-27	3249	-26
3362	-26	3400	-25	3419	-25	3446	-26	3501	-23	3537	-23
3583	-24	3616	-23	3634	-22	3669	-23	3746	-22	3777	-22
4087	-23	4204	-22	4279	-23	4350	-24	4396	-24	4421	-24
4480	-16	4500	-13	4505	-12	4524	-11	4569	-13	4593	-14
4670	-12	4692	-9	4745	-5	4821	-4	4922	-3	5031	-3
5174	-13	5181	-14	5223	-15	5254	-15	5280	-15	5305	-13
5389	-4	5411	-3	5439	-2	5490	-2	5530	3	5600	20
										644	-2
										2283	-31
										2641	-40
										2946	-32
										3289	-27
										3554	-23
										3797	-22
										4443	-23
										4608	-14
										5095	-3
										5333	-9
										708	-3
										2381	-49
										2668	-40
										2971	-32
										3322	-27
										3574	-24
										4012	-22
										4458	-18
										4630	-14
										5112	-4
										5360	-6

			SECTION # 41 AT MILE 100.2								
450	20	470	3	495	-9	563	-10	576	-10	625	-9
970	-7	1019	-7	1053	-7	1113	-7	1286	-7	1330	-8
1429	-23	1487	-32	1513	-34	1586	-45	1628	-52	1674	-55
1878	-57	1972	-58	2050	-58	2126	-56	2186	-54	2251	-50
2515	-18	2604	-13	2677	-12	2747	-11	2779	-10	2836	-12
2964	-10	3000	-9	3047	-9	3087	-8	3118	-7	3183	-8
3285	-9	3319	-9	3392	-9	3426	-10	3517	-11	3551	-11
3687	-9	3731	-10	3749	-10	3783	-11	3796	-13	3804	-14
3898	-9	3927	-9	3974	-10	3987	-11	4005	-10	4042	-9
4248	-9	4298	-10	4324	-15	4339	-16	4368	-17	4410	-17
4472	-15	4506	-14	4519	-13	4548	-8	4579	-6	4611	-5
4744	-35	4752	-36	4765	-37	4788	-37	4796	-35	4859	-19
5000	10									4880	-17
										717	-7
										1359	-9
										1703	-56
										2309	-44
										2886	-10
										3212	-8
										3582	-10
										3815	-13
										4112	-8
										4425	-16
										4653	-5
										4890	3

			SECTION # 42 AT MILE 98.5								
470	10	490	3	497	-4	534	-5	609	-5	664	-6
755	-11	770	-13	799	-18	822	-21	838	-23	867	-25
991	-30	1033	-31	1075	-33	1098	-34	1124	-34	1150	-33
1262	-30	1296	-29	1322	-26	1431	-17	1467	-15	1504	-13
1771	-11	1836	-12	1951	-12	2042	-14	2122	-14	2156	-14
2299	-15	2349	-16	2398	-17	2445	-17	2611	-22	2645	-24
2767	-30	2902	-36	3009	-43	3126	-49	3199	-52	3282	-53
3521	-56	3573	-55	3625	-54	3656	-52	3688	-49	3716	-44
3860	3	3980	10							3784	-26
										703	-8
										893	-27
										1194	-32
										1563	-12
										2232	-15
										2663	-26
										3368	-54
										3784	-26
										734	-10
										924	-28
										1238	-31
										1660	-11
										2258	-15
										2733	-28
										3461	-55
										3851	-10

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

			SECTION # 43 AT MILE 97.1										
STAT.	ELEV.		STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	
450	10	485	3	500	0	516	0	545	-1	592	-1	671	-3
792	-4	829	-6	845	-7	866	-9	876	-8	923	-8	966	-11
1021	-20	1050	-29	1073	-42	1097	-49	1126	-52	1142	-54	1176	-56
1236	-59	1265	-60	1315	-60	1349	-59	1415	-55	1476	-51	1557	-41
1728	-24	1768	-22	1812	-21	1989	-21	2028	-20	2057	-19	2107	-18
2231	-14	2246	-13	2257	-10	2267	-8	2281	-7	2307	-7	2317	-8
2380	-19	2409	-20	2444	-21	2478	-21	2504	-20	2628	-20	2735	-18
3080	-17	3127	-17	3183	-19	3219	-20	3330	-20	3419	-21	3456	-21
3543	-31	3569	-34	3622	-36	3682	-37	3751	-38	3788	-39	3911	-39
3977	-40	4003	-39	4022	-37	4032	-34	4035	-30	4066	-30	4106	-29
4140	-26	4156	-24	4171	-19	4179	-16	4187	-13	4198	-10	4211	-7
4270	8	4400	10									4220	3

			SECTION # 44 AT MILE 96.0										
STAT.	ELEV.		STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	
450	10	470	3	500	-8	542	-9	558	-10	571	-11	687	-28
766	-38	774	-40	810	-45	829	-46	845	-46	876	-45	889	-45
1013	-45	1081	-44	1163	-43	1218	-42	1402	-41	1455	-41	1520	-40
1618	-36	1718	-32	1865	-24	1910	-22	1954	-20	1989	-20	2028	-20
2136	-20	2220	-19	2236	-18	2262	-17	2302	-15	2320	-14	2357	-9
2438	-5	2494	-4	2549	-4	3535	-5	3580	-5	3640	-5	3688	-7
3730	-9	3769	-15	3869	-24	4043	-35	4064	-37	4116	-38	4224	-40
4264	-40	4329	-37	4350	-36	4390	-35	4440	-35	4463	-34	4521	-34
4605	-29	4634	-26	4655	-23	4671	-21	4676	-19	4676	-17	4679	-15
4710	3	4730	10									708	-31
												984	-45
												1573	-37
												2081	-20
												2394	-6
												3714	-8
												4237	-41
												4561	-32
												4692	-14

			SECTION # 45 AT MILE 95.0										
STAT.	ELEV.		STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	
400	10	420	3	440	-2	484	-3	560	-5	597	-7	649	-10
719	-16	779	-24	863	-31	925	-34	988	-36	1030	-38	1056	-39
1113	-39	1166	-39	1215	-39	1267	-39	1518	-40	1719	-40	1823	-40
1998	-36	2191	-29	2272	-26	2327	-25	2390	-24	2439	-22	2471	-20
2554	-10	2614	-7	2672	-6	2752	-5	2888	-5	3251	-5	3400	-5
3468	-6	3494	-7	3515	-9	3530	-11	3603	-20	3682	-25	3796	-30
3937	-37	4029	-42	4094	-46	4164	-51	4188	-52	4198	-53	4211	-54
4243	-52	4251	-51	4269	-50	4318	-39	4342	-30	4373	-21	4397	-13
4415	-7	4415	-7	4415	3	4530	10					688	-13
												1069	-39
												1915	-38
												2497	-17
												3444	-6
												3864	-33
												4230	-53
												4412	-9

			SECTION # 46 AT MILE 93.2										
STAT.	ELEV.		STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	
400	10	500	3	556	-6	592	-6	631	-7	712	-4	782	-4
940	-7	1086	-15	1232	-17	1365	-19	1455	-22	1678	-21	1798	-21
2064	-22	2205	-23	2405	-23	2466	-24	2568	-24	2717	-24	2863	-25
3249	-27	3470	-26	3628	-25	3810	-24	3930	-23	4033	-21	4117	-18
4258	-12	4279	-9	4291	-7	4312	-5	4335	-5	4755	-5	4791	-5
4834	-8	4847	-9	4972	-18	5041	-20	5144	-21	5308	-22	5408	-23
5507	-24	5530	-25	5530	-26	5559	-33	5607	-35	5646	-35	5699	-36
5776	-39	5866	-38	5953	-38	5973	-38	5991	-38	5999	-28	6001	-26
6211	-15	6291	-7	6316	-5	6362	-4	6421	-3	6455	-3	6480	-3
6544	-2	6570	-2	6600	3	6630	10					846	-4
												1895	-22
												3029	-26
												4207	-15
												4811	-6
												5484	-23
												5751	-38
												6073	-22
												6513	-3

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

			SECTION # 47 AT MILE 91.8									
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
420 10	535 0	545 -13	568 -15	584 -16	611 -19	629 -24	638 -30	660 -34	715 -40	733 -43	755 -43	773 -43
846 -46	859 -46	875 -46	891 -46	918 -45	957 -45	984 -44	1015 -44	1058 -42	1072 -42	1088 -42	1103 -41	1112 -42
1271 -47	1286 -47	1318 -48	1336 -49	1347 -49	1370 -50	1399 -51	1460 -52	1506 -53	1535 -54	1560 -54	1612 -53	1653 -52
1809 -50	1851 -50	1931 -48	1980 -47	2023 -47	2037 -47	2093 -45	2188 -40	2272 -35	2315 -33	2353 -33	2398 -33	2423 -33
2507 -32	2520 -33	2529 -34	2563 -32	2588 -30	2597 -28	2611 -27	2627 -27	2645 -27	2663 -28	2688 -28	2706 -27	2780 -26
3155 -10	3167 -10	3174 -10	3187 -10	3203 -10	4900 0	4960 8	5400 10					

			SECTION # 48 AT MILE 91.2									
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
340 10	430 0	452 -8	508 -11	628 -22	725 -30	828 -40	918 -46	1025 -53	1052 -53	1096 -55	1153 -55	1203 -55
1338 -58	1413 -57	1476 -56	1567 -54	1636 -52	1697 -49	1720 -48	1728 -47	1739 -47	1745 -47	1773 -50	1800 -50	1823 -50
1924 -43	1987 -38	2060 -34	2123 -31	2266 -30	2447 -28	2583 -25	2732 -22	2860 -20	2970 -18	3064 -17	3377 -18	3400 -17
3583 -12	3616 -9	3658 -7	3755 -5	3820 -4	3885 -4	4284 -4	4456 -4	4648 -3	4729 -2	4801 -3	4883 -3	5011 -3
5600 0	5700 20				5042 -3	5089 -4	5107 -3					

			SECTION # 49 AT MILE 90.7									
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
400 10	500 -1	553 -5	603 -8	669 -13	729 -18	841 -25	926 -31	956 -35	997 -40	1038 -43	1098 -48	1153 -49
1322 -53	1352 -54	1384 -55	1414 -56	1448 -55	1494 -55	1579 -54	1661 -54	1723 -54	1771 -53	1849 -51	1899 -50	1945 -50
2250 -48	2302 -46	2456 -42	2554 -37	2689 -33	2808 -29	2930 -25	3001 -23	3065 -22	3136 -21	3209 -20	3301 -21	3408 -21
3601 -24	3630 -24	3660 -23	3665 -22	3692 -5	3695 -4	3704 -4	3715 -4	3717 -5	3729 -12	3738 -13	3747 -15	3747 -17
3832 -13	3850 -6	3866 -5	3889 -4	3903 -4	3919 -4	3990 -1	4040 8	4400 10				

			SECTION # 50 AT MILE 90.4									
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
200 10	410 7	445 -1	453 -4	465 -6	484 -8	530 -12	577 -14	623 -15	663 -16	738 -17	768 -18	805 -19
877 -19	905 -20	922 -20	952 -20	980 -20	1055 -26	1122 -33	1183 -38	1320 -43	1425 -46	1560 -49	1665 -53	1788 -56
2094 -58	2129 -59	2168 -58	2208 -57	2434 -50	1842 -56	1921 -57	2049 -58	3193 -27	3340 -25	3433 -24	3508 -25	3543 -26
3778 -21	3832 -17	3920 -11	3986 -8	4039 -8	2639 -42	2788 -37	2977 -31	4244 -8	4265 -7	4284 -7	4303 -6	4317 -5
					3622 -26	3671 -26	3727 -23					
					4107 -7	4163 -8	4212 -8					
					4328 -5	4330 -1	4430 10					

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

SECTION # 51 AT MILE 90.1						SECTION # 52 AT MILE 89.7					
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
380 10	510 1	546 -4	583 -8	617 -16	666 -21	705 -24	732 -24	764 -24	797 -23	847 -22	889 -20
1176 -12	1227 -13	1351 -18	1498 -24	1611 -29	1668 -31	1763 -34	1960 -40	2069 -43	2112 -46	2181 -50	2236 -55
2303 -62	2322 -64	2335 -65	2372 -66	2402 -66	2457 -66	2517 -65	2575 -65	2607 -64	2627 -64	2690 -61	2719 -60
2940 -47	3016 -42	3092 -37	3237 -28	3343 -23	3403 -22	3437 -21	3472 -22	3495 -22	3508 -23	3522 -25	3587 -30
3715 -39	3750 -39	3777 -37	3883 -24	3941 -16	3975 -9	4001 -6	4017 -6	4035 -5	4074 -4	4111 -4	4152 -3
4190 20			4170 1								
SECTION # 53 AT MILE 89.2						SECTION # 54 AT MILE 88.5					
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
410 10	445 1	451 0	480 -1	502 -2	518 -3	567 -15	623 -21	679 -26	706 -27	724 -26	771 -26
919 -23	930 -22	1013 -10	1053 -3	1076 -2	1087 -2	1105 -2	1129 -2	1172 -1	1351 -1	1387 -1	1448 -2
1754 -4	1775 -5	1898 -14	1922 -15	1943 -16	1990 -18	2059 -19	2288 -25	2397 -29	2426 -30	2496 -32	2561 -33
2924 -47	2977 -50	3027 -53	3072 -56	3116 -58	3152 -59	3190 -58	3242 -57	3309 -56	3365 -54	3423 -50	3537 -43
4015 -32	4059 -32	4144 -34	4194 -35	4243 -36	4263 -36	4281 -36	4312 -32	4400 -18	4433 -12	4472 -6	4512 -4
4720 1	4750 20		4541 -3	4584 -2	4608 -2	4622 -2					
SECTION # 53 AT MILE 89.2						SECTION # 54 AT MILE 88.5					
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
480 10	510 1	551 -10	640 -19	721 -27	745 -24	775 -24	808 -24	840 -24	866 -24	887 -24	905 -25
1085 -12	1127 -4	1138 -3	1169 -2	1192 -2	1215 -3	1248 -3	1292 -3	1483 -3	1553 -2	1632 -3	1700 -5
2299 -27	2429 -31	2483 -32	2569 -32	2669 -34	2776 -36	2828 -38	2972 -45	3168 -55	3289 -61	3331 -63	3359 -62
3962 -28	4084 -27	4333 -27	4403 -28	4473 -27	4515 -25	4557 -21	4654 -8	4710 -3	4745 -2	4808 -1	4848 0
			4857 1	4900 1	4940 20						
SECTION # 54 AT MILE 88.5						SECTION # 54 AT MILE 88.5					
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
320 10	360 1	455 -2	598 -3	900 -3	996 -3	1046 -4	1071 -6	1157 -15	1240 -21	1285 -23	1313 -23
1465 -24	1510 -26	1557 -25	1651 -22	1686 -21	1720 -21	1750 -22	1782 -23	2017 -29	2229 -35	2319 -36	2392 -37
2963 -55	3002 -56	3094 -55	3160 -55	3216 -56	3250 -57	3276 -57	3312 -58	3335 -57	3355 -56	3415 -47	3513 -35
4078 -3	4147 -3	4232 -3	4767 -3	5309 -3	5602 -3	5642 -2	5679 -2	5741 -3	5782 -2	5805 -2	5860 1
			5950 10								

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

			SECTION # 55 AT MILE 87.8								
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
450 10	470 2	505 -3	531 -4	541 -4	562 -5	607 -5	827 -5				
1247 -4	1485 -4	1702 -4	1859 -4	1895 -5	1933 -6	1957 -7	1979 -8				
2010 -11	2115 -25	2224 -37	2241 -37	2246 -37	2251 -36	2253 -35	2265 -35				
2277 -34	2346 -39	2544 -49	2639 -55	2692 -59	2718 -60	2718 -60	2744 -60				
2785 -61	2804 -62	2806 -62	2821 -62	2842 -61	2861 -60	2880 -60	2890 -60				
2895 -61	2921 -62	2937 -67	2942 -69	2949 -70	2954 -71	2966 -71	2973 -70				
2988 -70	3009 -64	3023 -61	3028 -61	3030 -60	3045 -60	3057 -60	3071 -58				
3081 -57	3092 -57	3109 -57	3147 -58	3169 -60	3183 -61	3193 -63	3200 -64				
3200 -65	3207 -66	3221 -67	3231 -67	3250 -66	3264 -66	3300 -63	3331 -63				
3355 -63	3386 -63	3417 -62	3448 -61	3474 -61	3507 -60	3565 -60	3720 -57				
3908 -52	4004 -48	4120 -44	4185 -20	4237 -4	4347 -2	4521 -2	4583 -1				
6600 2	6750 10										
			SECTION # 56 AT MILE 87.4								
410 10	450 2	507 2	525 0	554 -2	594 -3	613 -4	638 -4				
719 -4	815 -4	879 -4	929 -3	971 -3	1017 -3	1030 -3	1042 -3				
1118 -3	1160 -3	1190 -4	1219 -4	1242 -5	1259 -7	1288 -12	1335 -23				
1380 -33	1412 -38	1471 -44	1520 -48	1564 -53	1601 -56	1621 -59	1621 -59				
1663 -61	1702 -64	1752 -67	1764 -68	1776 -68	1789 -68	1826 -66	1838 -66				
1845 -66	1865 -67	1914 -71	1932 -72	1941 -72	1946 -71	1959 -71	1961 -70				
1966 -70	1983 -70	1996 -70	2008 -71	2055 -78	2065 -79	2079 -79	2087 -79				
2094 -78	2099 -78	2126 -73	2139 -72	2146 -72	2156 -73	2168 -73	2188 -74				
2195 -74	2203 -74	2269 -71	2365 -68	2444 -64	2459 -63	2464 -63	2484 -63				
2496 -63	2503 -62	2513 -61	2530 -60	2545 -59	2565 -58	2609 -57	2668 -55				
2700 -55	2737 -56	2759 -55	2784 -54	2848 -43	2952 -16	3011 -11	3173 -6				
3348 -3	3496 -2	3969 -2	4546 -1	4763 -1	4940 2	5050 20					
			SECTION # 57 AT MILE 86.9								
420 10	450 2	526 2	538 -6	548 -9	570 -17	579 -22	599 -32				
614 -40	626 -48	651 -55	662 -58	662 -58	685 -65	690 -66	700 -65				
709 -65	718 -65	723 -67	738 -68	750 -68	761 -67	770 -68	781 -70				
793 -71	801 -72	823 -72	867 -77	934 -82	1001 -89	1076 -96	1112 -97				
1127 -97	1155 -96	1212 -93	1263 -89	1329 -83	1341 -82	1347 -81	1357 -79				
1405 -73	1445 -67	1468 -63	1478 -60	1485 -58	1493 -58	1529 -48	1591 -33				
1634 -23	1675 -19	1711 -17	1786 -17	1834 -17	1879 -18	1951 -20	2028 -20				
2115 -16	2163 -15	2223 -12	2268 -10	2317 -8	2340 -7	2372 -5	2433 -3				
2536 -2	2671 -2	2840 -2	2981 -2	3085 -1	3153 0	3160 0	3193 1				
3270 2	3300 20										
			SECTION # 58 AT MILE 86.3								
500 20	520 2	448 2	512 -2	533 -4	548 -10	579 -23	614 -38				
643 -52	657 -58	657 -58	667 -63	686 -75	703 -80	719 -80	743 -80				
870 -78	998 -77	1168 -74	1199 -73	1222 -73	1249 -73	1268 -74	1325 -70				
1432 -65	1449 -64	1458 -64	1473 -64	1480 -64	1497 -64	1518 -61	1549 -59				
1563 -58	1585 -58	1663 -49	1873 -34	2038 -26	2102 -24	2126 -23	2145 -23				
2166 -23	2181 -22	2195 -22	2209 -22	2295 -21	2393 -19	2457 -19	2512 -20				
2565 -21	2627 -23	2686 -24	2703 -24	2729 -24	2774 -24	2789 -25	2824 -24				
2872 -22	2915 -20	2972 -12	3022 -6	3053 -4	3101 -2	3132 -1	3146 1				
3168 2	3190 2	3220 20									

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

STAT. ELEV.			STAT. ELEV.			STAT. ELEV.			SECTION # 59 AT MILE 85.8			STAT. ELEV.			STAT. ELEV.			STAT. ELEV.					
450	-20		530	-2		541	-2		551	-8		572	-19		575	-31		584	-32		611	-40	
640	-52		659	-57		666	-58		666	-58		666	-59		673	-60		714	-60		775	-59	
791	-59		806	-59		813	-59		830	-59		854	-59		873	-59		902	-60		970	-60	
1016	-61		1056	-60		1083	-60		1107	-60		1126	-60		1150	-60		1160	-60		1187	-59	
1235	-58		1252	-58		1471	-54		1591	-51		1702	-47		1885	-39		2030	-34		2124	-32	
2148	-32		2165	-32		2191	-31		2234	-30		2430	-30		2514	-29		2630	-27		2704	-27	
2779	-28		2849	-30		2921	-31		2957	-32		2991	-32		3001	-32		3020	-32		3054	-32	
3111	-27		3188	-16		3225	-10		3225	-9		3280	2		3450	20							

[illegible]

SECTION # 61 AT MILE 84.8															
410	10	460	2	495	2	516	0	562	-2	617	-3	716	-2	769	-3
795	-4	831	-10	871	-12	990	-24	1016	-27	1041	-29	1119	-31	1237	-34
1273	-35	1313	-36	1405	-40	1414	-41	1423	-41	1439	-41	1467	-42	1626	-47
1665	-48	1720	-49	1759	-53	1814	-57	1826	-59	1837	-58	1854	-57	1893	-49
1932	-41	1966	-32	1973	-23	2001	-12	2019	-6	2081	-3	2098	-3	2116	-2
2128	-2	2160	-2	2190	-2	2220	-3	2245	-2	2266	-3	2309	-8	2323	-12
2378	-17	2404	-27	2415	-28	2429	-29	2466	-42	2487	-44	2530	-52	2535	-53
2567	-54	2602	-55	2632	-55	2680	-52	2728	-51	2816	-51	2885	-50	2965	-47
3030	-43	3101	-40	3159	-39	3228	-39	3274	-39	3320	-37	3364	-35	3419	-34
3460	-34	3511	-33	3559	-33	3617	-31	3651	-31	3815	-31	3884	-29	3971	-28
4068	-28	4121	-27	4199	-27	4287	-26	4342	-25	4386	-20	4411	-15	4434	-12
4496	-8	4524	-4	4526	-1	4526	2	4750	2	4780	20				

[illegible]

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

SECTION # 63 AT MILE 84.1															
STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.
0	20	200	10	493	2	509	0	529	-1	542	-3	564	-5	582	-8
598	-13	609	-17	633	-21	668	-30	700	-38	724	-42	744	-45	762	-46
788	-48	819	-49	830	-48	839	-47	850	-45	870	-44	899	-45	948	-46
994	-47	1025	-48	1088	-48	1121	-50	1163	-53	1189	-55	1214	-56	1247	-56
1278	-54	1307	-53	1340	-52	1365	-52	1398	-53	1433	-56	1447	-58	1482	-61
1513	-59	1555	-57	1571	-56	1662	-54	1688	-53	1715	-52	1742	-51	1764	-51
1781	-50	1808	-50	1819	-49	1859	-46	1901	-44	1921	-43	1939	-42	1959	-41
1979	-42	2012	-43	2039	-46	2063	-48	2079	-51	2101	-53	2121	-55	2134	-57
2149	-59	2149	-59	2196	-61	2245	-63	2296	-65	2340	-67	2373	-69	2418	-72
2458	-72	2495	-73	2524	-74	2540	-72	2562	-69	2562	-66	2577	-64	2584	-61
2597	-59	2604	-58	2611	-53	2628	-45	2644	-36	2659	-25	2670	-16	2690	-9
2695	-8	2717	-4	2737	-3	2768	-1	2941	-1	2994	0	3027	0	3063	1
3085	2	3100	10	3110	20										
SECTION # 64 AT MILE 83.5															
440	10	480	2	498	2	502	0	512	-2	524	-4	536	-6	548	-10
557	-16	572	-21	593	-28	620	-37	653	-46	677	-50	696	-51	732	-53
775	-54	816	-56	852	-58	873	-58	900	-58	919	-58	950	-58	984	-56
1010	-55	1036	-53	1101	-51	1130	-50	1175	-49	1206	-49	1242	-48	1278	-47
1328	-46	1376	-45	1381	-45	1393	-45	1407	-44	1436	-43	1450	-43	1484	-42
1522	-42	1568	-42	1592	-43	1628	-44	1692	-46	1711	-47	1731	-48	1747	-48
1786	-49	1821	-50	1860	-50	1891	-50	1939	-51	2020	-52	2085	-53	2116	-53
2214	-56	2264	-56	2286	-56	2305	-55	2327	-55	2360	-55	2391	-55	2418	-55
2434	-56	2463	-56	2487	-55	2494	-55	2516	-55	2525	-54	2571	-53	2633	-53
2686	-52	2729	-51	2743	-50	2758	-49	2770	-47	2786	-44	2798	-40	2805	-35
2825	-30	2832	-26	2846	-20	2865	-13	2882	-7	2901	-5	2918	-2	2928	0
2954	2	3000	10	3010	20										
SECTION # 65 AT MILE 83.2															
440	10	480	3	493	-11	509	-12	523	-14	542	-20	556	-25	570	-32
582	-38	593	-44	600	-48	605	-53	607	-55	626	-56	642	-55	656	-54
666	-53	673	-53	684	-53	696	-52	750	-52	789	-52	862	-51	943	-51
992	-50	1013	-49	1051	-49	1072	-48	1083	-48	1172	-46	1273	-44	1345	-42
1410	-41	1462	-41	1506	-41	1557	-42	1618	-43	1674	-44	1700	-44	1716	-45
1730	-46	1802	-47	1854	-47	1928	-48	2010	-49	2096	-50	2204	-52	2293	-54
2356	-55	2402	-57	2449	-58	2498	-59	2528	-59	2577	-58	2629	-58	2671	-56
2689	-55	2699	-53	2729	-51	2745	-48	2755	-47	2757	-45	2764	-41	2773	-38
2785	-34	2804	-30	2811	-27	2827	-23	2848	-19	2862	-15	2867	-14	2869	-11
2874	-10	2892	-8	2916	-6	2937	-5	2955	-3	2976	-2	2990	3	3040	20
SECTION # 66 AT MILE 82.7															
450	10	495	3	500	-1	525	-2	571	-6	588	-9	601	-12	615	-15
634	-19	648	-22	661	-25	682	-28	703	-32	735	-36	765	-38	793	-40
821	-41	855	-40	922	-39	980	-40	1074	-41	1102	-41	1155	-41	1224	-42
1319	-43	1381	-43	1441	-43	1471	-42	1512	-42	1602	-41	1662	-40	1729	-39
1819	-39	1881	-39	1978	-41	2098	-43	2197	-44	2292	-45	2368	-46	2444	-47
2562	-49	2658	-52	2751	-55	2804	-57	2824	-58	2850	-59	2875	-59	2907	-60
2935	-59	2963	-59	2984	-59	3034	-58	3083	-57	3106	-55	3124	-52	3143	-48
3163	-45	3180	-42	3184	-38	3193	-34	3198	-30	3203	-26	3219	-21	3228	-17
3235	-13	3242	-9	3251	-6	3260	-4	3281	-3	3306	-2	3332	-1	3350	-1
3355	3	3420	20												

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

			SECTION # 67 AT MILE 82.3								
STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.	
440	10		480	3		502	-9		512	-13	
579	-39		597	-42		634	-46		690	-47	
1037	-42		1143	-41		1246	-41		1345	-41	
1785	-39		1915	-40		1992	-41		2029	-41	
2719	-52		2781	-53		2847	-55		2894	-55	
3105	-46		3130	-42		3151	-37		3175	-32	
3240	-14		3254	-13		3264	-10		3275	-8	
3360	20								3281	-5	
									537	-28	
									793	-46	
									1465	-40	
									2411	-45	
									2967	-53	
									3211	-24	
									3293	-3	
									543	-32	
									866	-44	
									1574	-39	
									2516	-47	
									3016	-52	
									3225	-20	
									3291	-2	
									556	-36	
									946	-43	
									1684	-39	
									2605	-49	
									3064	-49	
									3235	-17	
									3295	3	

			SECTION # 68 AT MILE 82.0								
STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.	
500	10		540	0		548	0		569	-5	
721	-39		735	-40		755	-41		774	-42	
859	-47		879	-46		898	-46		942	-46	
1346	-43		1434	-43		1540	-43		1604	-42	
1758	-41		1797	-41		1825	-42		1852	-43	
1949	-42		1965	-42		1986	-42		2004	-42	
2121	-42		2163	-43		2236	-44		2257	-44	
2632	-51		2653	-51		2664	-52		2676	-52	
2860	-59		2883	-60		2910	-60		2936	-61	
3005	-63		3014	-62		3028	-61		3028	-61	
3324	-11		3331	-9		3354	-7		3382	-6	
3460	0		3500	20					3393	-6	
									643	-18	
									801	-46	
									992	-48	
									1664	-41	
									1889	-42	
									2036	-42	
									2457	-47	
									2726	-54	
									2961	-62	
									3163	-45	
									3412	-4	
									675	-29	
									820	-47	
									1107	-44	
									1691	-41	
									1908	-42	
									2052	-42	
									2545	-49	
									2759	-55	
									2982	-63	
									3214	-35	
									3426	-2	
									702	-37	
									840	-47	
									1220	-43	
									1726	-41	
									1928	-42	
									2078	-43	
									2602	-50	
									2818	-57	
									2989	-63	
									3276	-21	
									3442	-1	

			SECTION # 69 AT MILE 81.6								
STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.	
500	10		530	0		539	-1		565	-6	
1031	-43		1163	-45		1283	-48		1403	-49	
1803	-45		1937	-44		2011	-44		2032	-44	
2302	-52		2362	-57		2399	-60		2415	-61	
2577	-75		2602	-76		2621	-77		2639	-76	
2755	-65		2771	-62		2785	-60		2780	-61	
2895	-28		2928	-23		2969	-17		3002	-10	
3080	20								3023	-6	
									678	-26	
									1498	-48	
									2073	-45	
									2438	-63	
									2669	-75	
									2852	-47	
									3043	-2	
									796	-33	
									1542	-47	
									2135	-46	
									2477	-67	
									2701	-71	
									2877	-40	
									3046	0	
									925	-39	
									1667	-45	
									2216	-48	
									2530	-72	
									2729	-68	
									2889	-32	
									3050	0	

			SECTION # 70 AT MILE 81.3								
STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.	
400	10		455	-1		447	-1		488	-7	
672	-57		682	-59		694	-61		701	-62	
861	-85		875	-86		887	-86		897	-86	
1021	-73		1074	-65		1097	-63		1112	-62	
1370	-51		1475	-50		1559	-50		1654	-51	
1984	-62		2020	-58		2056	-57		2111	-56	
2453	-45		2517	-39		2558	-33		2598	-25	
2694	-8		2713	-5		2730	-3		2737	-1	
									531	-17	
									720	-64	
									925	-84	
									1184	-58	
									1824	-55	
									2242	-52	
									2646	-16	
									2790	20	
									608	-38	
									792	-74	
									940	-83	
									1231	-55	
									1917	-57	
									2326	-50	
									2658	-14	
									631	-49	
									842	-82	
									976	-80	
									1265	-53	
									1936	-58	
									2393	-48	
									2675	-12	

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		SECTION # 71 AT MILE 81.0		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	
STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
300	10	500	8	535	-1	538	-1	548	-12	558	-25	572	-39	589	-49
596	-53	618	-58	630	-60	637	-62	637	-62	654	-64	690	-67	728	-68
771	-69	870	-69	886	-69	910	-69	927	-69	961	-70	975	-71	1006	-70
1035	-70	1323	-66	1354	-66	1383	-65	1414	-66	1443	-66	1482	-66	1522	-67
1578	-67	1602	-67	1616	-67	1628	-68	1642	-68	1652	-68	1666	-68	1698	-66
1719	-65	1734	-65	1743	-65	1750	-65	1765	-65	1777	-65	1798	-64	1849	-62
1873	-62	1916	-63	1950	-64	1988	-66	2024	-68	2034	-71	2053	-73	2070	-75
2082	-75	2094	-75	2110	-75	2144	-71	2187	-66	2209	-63	2214	-62	2211	-61
2245	-57	2274	-48	2302	-42	2319	-36	2350	-29	2382	-22	2401	-18	2425	-13
2444	-8	2451	-5	2458	-2	2460	-1	2500	20						

STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		SECTION # 72 AT MILE 80.6		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	
STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
420	10	460	-1	449	-4	460	-10	485	-16	496	-20	517	-25	530	-30
551	-38	566	-42	583	-49	598	-53	610	-55	627	-57	636	-58	659	-58
706	-59	727	-60	784	-61	814	-62	829	-62	829	-62	869	-65	928	-70
966	-74	990	-76	994	-78	1011	-79	1043	-83	1094	-89	1149	-96	1197	-102
1238	-105	1270	-106	1310	-106	1335	-106	1361	-106	1393	-104	1418	-103	1462	-101
1518	-97	1558	-93	1602	-87	1653	-77	1711	-70	1759	-66	1806	-63	1812	-62
1848	-61	1876	-60	1903	-57	1948	-51	1997	-37	2050	-25	2067	-16	2111	-11
2141	-13	2160	-8	2202	-5	2217	-3	2230	-2	2235	-1	2270	20		

STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		SECTION # 73 AT MILE 80.2		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	
STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
500	10	540	-1	548	-2	586	-3	623	-5	702	-10	768	-17	801	-24
817	-28	874	-36	920	-46	940	-55	955	-60	962	-62	962	-62	975	-66
1006	-78	1035	-88	1074	-98	1136	-109	1215	-117	1261	-121	1272	-123	1288	-126
1340	-132	1371	-134	1404	-135	1455	-136	1523	-136	1560	-135	1602	-134	1640	-132
1662	-128	1684	-124	1730	-112	1807	-97	1871	-84	1923	-71	1945	-64	1950	-63
1952	-62	1974	-52	2016	-33	2071	-19	2106	-15	2139	-12	2170	-10	2196	-7
2207	-5	2212	-3	2216	-2	2220	-1	2260	20						

STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		SECTION # 74 AT MILE 79.8		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	
STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
500	10	540	-1	561	-2	594	-4	639	-8	769	-13	800	-14	830	-15
856	-16	887	-20	927	-27	958	-36	991	-43	1007	-49	1040	-56	1081	-60
1097	-66	1097	-66	1105	-67	1137	-72	1170	-80	1199	-87	1225	-94	1295	-100
1376	-106	1402	-107	1411	-108	1435	-108	1458	-109	1486	-110	1508	-112	1529	-112
1545	-113	1564	-113	1586	-114	1607	-117	1626	-114	1647	-111	1730	-101	1810	-92
1918	-83	2013	-77	2110	-71	2157	-69	2185	-68	2194	-67	2202	-65	2209	-62
2235	-54	2277	-40	2338	-24	2371	-15	2376	-9	2388	-5	2390	-2	2390	-2
2395	-1	2440	20												

STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		SECTION # 75 AT MILE 79.4		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	
STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
400	10	435	-1	442	-2	459	-7	484	-11	530	-20	569	-31	576	-35
587	-36	624	-41	645	-44	663	-44	691	-45	721	-45	737	-45	748	-44
762	-45	794	-46	810	-46	831	-46	854	-46	875	-48	912	-50	935	-52
937	-53	953	-53	969	-53	1038	-53	1061	-53	1105	-54	1305	-57	1443	-59
1491	-59	1565	-59	1597	-60	1620	-61	1661	-62	1687	-62	1687	-62	1724	-63
1776	-64	1820	-64	1857	-65	1903	-64	1951	-63	1997	-63	2029	-62	2075	-62
2161	-63	2207	-62	2266	-62	2301	-63	2338	-63	2377	-64	2397	-65	2420	-65
2446	-64	2471	-63	2487	-62	2489	-62	2531	-50	2535	-47	2561	-41	2584	-35
2614	-29	2621	-25	2632	-18	2641	-9	2650	-5	2664	-2	2680	-1	2740	20

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

SECTION # 76 AT MILE 78.9								
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
400 10	430 -1	438 -2	455 -7	475 -15	500 -23	540 -33	574 -44	
602 -54	633 -58	656 -60	681 -61	695 -62	695 -62	724 -65	732 -65	
755 -65	775 -66	808 -69	817 -70	820 -71	831 -71	848 -71	862 -70	
876 -68	885 -68	893 -68	902 -69	916 -71	950 -72	987 -73	1001 -74	
1015 -74	1043 -74	1086 -73	1179 -71	1191 -71	1196 -70	1213 -67	1219 -64	
1230 -62	1233 -62	1267 -53	1284 -51	1304 -51	1326 -51	1366 -51	1547 -53	
1624 -53	1666 -53	1714 -54	1751 -55	1802 -55	1847 -56	1898 -56	1938 -56	
1977 -55	2020 -54	2260 -51	2339 -49	2362 -49	2388 -49	2405 -48	2450 -47	
2589 -42	2637 -40	2668 -38	2730 -30	2801 -19	2855 -12	2886 -10	2922 -8	
2959 -6	2988 -4	3016 -3	3044 -2	3050 -1	3080 10			

SECTION # 77 AT MILE 78.4								
500 10	540 -1	547 -2	566 -7	576 -11	581 -13	593 -14	605 -15	
605 -19	654 -32	689 -44	713 -54	728 -58	735 -65	735 -65	752 -69	
772 -79	779 -85	787 -87	821 -96	838 -104	855 -109	867 -112	872 -113	
887 -112	894 -112	904 -112	904 -112	929 -111	1049 -92	1135 -76	1169 -69	
1193 -66	1196 -65	1196 -62	1284 -55	1306 -54	1345 -52	1384 -51	1411 -51	
1448 -51	1625 -51	1715 -51	1735 -51	1747 -51	1855 -51	1921 -51	1972 -50	
2014 -50	2063 -50	2122 -50	2203 -50	2213 -49	2220 -50	2232 -50	2257 -50	
2298 -49	2401 -47	2521 -44	2600 -41	2676 -38	2727 -35	2754 -32	2847 -20	
2899 -12	2916 -10	2940 -7	2970 -5	2994 -3	3019 -2	3030 -1	3080 10	

SECTION # 78 AT MILE 78.0								
400 10	430 -1	445 -2	489 -6	549 -14	612 -30	651 -40	675 -48	
697 -56	719 -60	733 -62	733 -62	758 -66	804 -72	837 -76	843 -77	
856 -77	864 -77	873 -77	949 -73	1048 -68	1122 -66	1218 -62	1210 -62	
1352 -57	1407 -56	1464 -55	1495 -54	1517 -54	1533 -54	1555 -53	1574 -53	
1596 -54	1618 -55	1632 -54	1684 -53	1815 -51	1930 -51	2045 -51	2117 -52	
2141 -53	2169 -54	2202 -51	2218 -54	2248 -58	2281 -53	2289 -53	2300 -58	
2319 -59	2349 -60	2391 -59	2404 -59	2465 -59	2492 -56	2550 -57	2774 -43	
2813 -31	2837 -27	2865 -21	2870 -15	2892 -9	2906 -4	2908 -2	2925 -1	
2970 10								

SECTION # 79 AT MILE 77.6								
440 20	490 -1	507 -2	572 -7	584 -9	663 -26	701 -33	770 -51	
825 -57	844 -59	873 -59	952 -59	1033 -58	1126 -59	1179 -58	1207 -59	
1282 -58	1334 -59	1423 -56	1451 -56	1513 -55	1573 -54	1630 -53	1700 -53	
1771 -52	2046 -51	2111 -52	2190 -53	2321 -54	2376 -55	2402 -55	2445 -54	
2477 -54	2505 -54	2586 -55	2663 -56	2718 -57	2742 -58	2890 -58	2919 -57	
2945 -57	2952 -55	2988 -47	3009 -38	3036 -29	3050 -16	3081 -2	3082 -1	
3110 10								

SECTION # 80 AT MILE 77.2								
370 10	490 -1	495 -2	500 -7	516 -16	560 -23	612 -33	660 -42	
720 -52	767 -57	805 -60	848 -62	878 -62	908 -62	935 -61	1009 -59	
1025 -58	1066 -59	1085 -61	1101 -62	1120 -62	1136 -62	1253 -58	1302 -57	
1398 -56	1447 -56	1602 -55	1632 -55	1667 -55	1710 -55	1754 -54	1795 -54	
1833 -54	1871 -54	1920 -55	1980 -56	2037 -57	2083 -57	2151 -58	2216 -58	
2268 -57	2339 -57	2399 -58	2442 -59	2475 -61	2513 -62	2526 -62	2554 -63	
2586 -63	2616 -63	2652 -62	2692 -60	2739 -56	2774 -50	2812 -45	2850 -39	
2872 -34	2889 -18	2896 -10	2910 -5	2926 -2	2940 -1	2980 10		

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

SECTION # 81 AT MILE 76.7								
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
100 10	480 8	509 -1	510 -2	520 -10	536 -20	581 -32	637 -43	
696 -53	701 -53	716 -54	820 -54	914 -56	942 -56	957 -56	1005 -56	
1082 -56	1125 -56	1150 -56	1191 -56	1229 -57	1267 -56	1295 -56	1320 -56	
1348 -56	1376 -56	1399 -56	1419 -56	1442 -56	1475 -55	1501 -55	1531 -56	
1559 -56	1579 -57	1605 -57	1648 -56	1694 -55	1752 -55	1793 -55	1828 -55	
1892 -55	1963 -56	2054 -58	2136 -59	2197 -60	2268 -62	2268 -62	2303 -63	
2352 -67	2402 -71	2441 -74	2466 -75	2486 -76	2519 -76	2550 -75	2580 -73	
2608 -72	2629 -70	2641 -68	2651 -66	2659 -64	2684 -62	2677 -62	2702 -60	
2738 -52	2766 -44	2791 -34	2824 -24	2827 -21	2849 -14	2898 -6	2918 -2	
2925 -1	2960 8	3100 10						

SECTION # 82 AT MILE 76.4															
400	10	495	-1	498	-2	530	-6	557	-8	589	-13	628	-27	675	-36
709	-44	771	-52	805	-56	849	-57	876	-57	918	-56	953	-56	980	-57
1002	-58	1014	-58	1031	-56	1049	-56	1085	-56	1152	-56	1179	-56	1201	-55
1275	-56	1334	-57	1398	-56	1445	-56	1496	-57	1538	-58	1585	-58	1595	-57
1617	-55	1622	-55	1659	-55	1666	-55	1681	-55	1732	-53	1831	-53	1900	-54
1934	-54	1951	-54	2006	-49	2013	-48	2025	-49	2077	-53	2084	-53	2099	-53
2121	-54	2133	-54	2163	-56	2205	-55	2234	-55	2254	-55	2266	-55	2397	-58
2426	-58	2456	-59	2478	-60	2493	-62	2493	-62	2515	-64	2564	-65	2601	-65
2635	-66	2687	-67	2739	-68	2768	-67	2790	-66	2805	-64	2817	-62	2827	-62
2871	-51	2921	-36	2970	-18	2997	-3	3005	-1	3040	10				

SECTION # 83 AT MILE 75.9															
430	20	490	0	502	0	524	-11	550	-24	585	-32	602	-34	620	-33
666	-43	674	-44	685	-43	705	-41	718	-41	742	-43	766	-50	781	-51
812	-52	890	-55	921	-55	951	-55	984	-52	1001	-51	1017	-51	1038	-55
1045	-56	1062	-56	1082	-60	1082	-60	1117	-70	1130	-71	1147	-72	1161	-71
1165	-70	1185	-60	1167	-60	1193	-51	1202	-50	1226	-52	1256	-54	1291	-54
1341	-55	1379	-54	1409	-55	1435	-56	1485	-55	1516	-56	1549	-57	1562	-57
1594	-56	1610	-57	1625	-58	1662	-56	1679	-56	1712	-57	1736	-57	1806	-56
1834	-57	1880	-57	2022	-54	2085	-53	2113	-53	2174	-52	2277	-52	2316	-53
2333	-54	2349	-54	2377	-54	2412	-55	2423	-56	2449	-55	2473	-55	2499	-55
2514	-54	2536	-57	2551	-57	2564	-57	2578	-56	2591	-56	2602	-56	2621	-58
2628	-58	2647	-58	2660	-57	2669	-56	2680	-57	2726	-60	2750	-62	2765	-63
2798	-62	2822	-61	2902	-47	3014	-21	3105	0	3120	0	3160	10		

SECTION # 84 AT MILE 75.4															
300	10	490	1	495	-2	525	-6	560	-12	578	-18	606	-23	654	-34
689	-38	724	-40	747	-40	765	-41	797	-41	938	-45	981	-47	1007	-49
1100	-59	1107	-59	1127	-59	1190	-56	1243	-53	1306	-47	1327	-45	1357	-44
1382	-44	1420	-45	1503	-56	1523	-57	1541	-57	1558	-57	1611	-53	1634	-53
1662	-53	1705	-54	1899	-59	1957	-62	1957	-62	2009	-64	2090	-66	2130	-67
2206	-67	2292	-66	2375	-65	2430	-63	2458	-62	2466	-62	2617	-54	2660	-50
2723	-46	2788	-42	2821	-41	2917	-39	2975	-37	3043	-34	3096	-30	3146	-27
3217	-22	3269	-18	3297	-14	3330	-8	3368	-4	3406	-1	3410	-1	3460	10

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

			SECTION # 85 AT MILE 74.9								
STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.	
250	10		440	8		485	-1		491	-2	
750	-35		776	-35		800	-36		816	-36	
878	-37		899	-37		922	-37		944	-37	
1064	-38		1081	-38		1095	-39		1128	-39	
1262	-41		1279	-42		1293	-43		1309	-42	
1378	-45		1394	-47		1404	-47		1420	-48	
1597	-54		1616	-54		1645	-53		1678	-51	
2022	-59		2084	-62		2084	-62		2183	-71	
2497	-87		2508	-87		2523	-87		2600	-81	
2891	-44		2936	-32		2945	-19		2961	-6	
									2975	-1	
									3020	10	

			SECTION # 86 AT MILE 74.6								
STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.	
460	10		495	0		498	0		619	-2	
782	-21		832	-27		896	-31		1006	-36	
1283	-46		1301	-46		1329	-45		1338	-45	
1426	-45		1437	-45		1472	-46		1505	-47	
1629	-49		1692	-51		1787	-57		1833	-61	
1974	-74		2007	-77		2025	-78		2075	-79	
2495	-88		2520	-88		2546	-87		2564	-85	
2735	-67		2764	-61		2773	-61		2779	-56	
2942	-1		2955	0		2990	10		2808	-47	
									529	-14	
									567	-18	
									612	-25	
									689	-5	
									716	-9	
									744	-15	
									1184	-44	
									1230	-44	
									1378	-46	
									1393	-46	
									1547	-47	
									1849	-62	
									1904	-67	
									2403	-85	
									2465	-87	
									2636	-78	
									2676	-75	
									2861	-24	
									2891	-12	

			SECTION # 87 AT MILE 74.3								
STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.	
450	20		499	0		500	0		502	-5	
640	-28		714	-36		736	-38		783	-39	
940	-55		955	-55		978	-55		997	-56	
1100	-57		1126	-56		1143	-57		1197	-57	
1354	-61		1392	-65		1400	-67		1421	-70	
1552	-76		1573	-77		1592	-77		1647	-75	
1857	-83		1942	-87		2014	-91		2099	-94	
2268	-87		2287	-81		2299	-75		2314	-69	
2361	-40		2378	-28		2390	-18		2404	-7	
									2418	-1	
									529	-14	
									567	-18	
									612	-25	
									689	-5	
									716	-9	
									744	-15	
									1184	-44	
									1230	-44	
									1378	-46	
									1393	-46	
									1547	-47	
									1849	-62	
									1904	-67	
									2403	-85	
									2465	-87	
									2636	-78	
									2676	-75	
									2861	-24	
									2891	-12	

			SECTION # 88 AT MILE 74.0								
STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.		STAT.	ELEV.	
470	10		495	0		498	0		583	-5	
716	-31		728	-36		758	-42		794	-51	
909	-65		930	-65		990	-63		1031	-62	
1365	-73		1425	-76		1454	-76		1503	-76	
1728	-66		1772	-65		1834	-64		1903	-64	
2278	-64		2345	-64		2462	-65		2522	-66	
2598	-61		2602	-61		2637	-54		2669	-42	
2890	-2		2908	0		2910	0		2950	10	
									583	-5	
									622	-9	
									661	-14	
									679	-20	
									702	-25	
									794	-51	
									847	-60	
									889	-63	
									1128	-63	
									1190	-65	
									1273	-68	
									1576	-75	
									1625	-72	
									1673	-69	
									2062	-62	
									2128	-63	
									2202	-63	
									2577	-66	
									2591	-64	
									2802	-9	
									2853	-5	

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

			SECTION # 89 AT MILE 73.6					
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
430 20	475 0	481 0	517 -9	528 -16	562 -27	583 -35	609 -45	
626 -52	635 -60	635 -60	652 -67	678 -76	709 -87	732 -94	737 -98	
763 -100	782 -101	796 -102	806 -101	872 -97	953 -90	1066 -81	1138 -72	
1235 -62	1275 -60	1287 -60	1322 -58	1405 -56	1510 -55	1604 -54	1671 -54	
1730 -54	1761 -54	1782 -54	1839 -54	1870 -55	1903 -55	1922 -55	1962 -55	
2019 -53	2071 -53	2123 -52	2190 -53	2225 -53	2254 -54	2268 -55	2280 -55	
2292 -54	2318 -53	2344 -50	2377 -46	2403 -42	2417 -38	2451 -34	2460 -32	
2500 -28	2548 -22	2600 -16	2640 -11	2645 -10	2685 -6	2723 -3	2768 0	
2780 0	2820 10							

			SECTION # 90 AT MILE 73.3					
460 10	494 1	495 2	502 -5	522 -12	556 -20	576 -27	593 -30	
605 -38	615 -44	632 -51	651 -58	656 -60	656 -60	681 -64	700 -68	
705 -70	722 -72	744 -76	778 -79	803 -81	810 -82	817 -82	834 -81	
864 -79	878 -78	903 -73	937 -71	1005 -67	1083 -64	1147 -60	1149 -60	
1217 -54	1247 -53	1271 -52	1288 -52	1310 -53	1334 -54	1344 -54	1359 -53	
1405 -52	1442 -52	1515 -52	1564 -52	1642 -54	1703 -55	1727 -55	1757 -54	
1803 -54	1830 -55	1862 -54	1927 -55	1991 -53	2066 -53	2137 -53	2193 -54	
2237 -53	2291 -54	2306 -54	2345 -53	2357 -53	2379 -53	2401 -53	2415 -53	
2554 -48	2625 -45	2694 -39	2750 -32	2813 -24	2884 -16	2920 -7	3003 1	
3020 1	3060 10							

			SECTION # 91 AT MILE 72.9					
470 10	500 1	500 2	525 -2	548 -7	558 -9	573 -10	593 -13	
615 -17	638 -19	673 -22	683 -23	691 -25	716 -28	738 -30	761 -34	
781 -37	806 -42	831 -45	854 -48	892 -51	909 -52	927 -52	942 -51	
974 -51	1017 -51	1055 -52	1072 -52	1087 -52	1135 -51	1183 -50	1233 -50	
1248 -50	1384 -48	1449 -46	1524 -46	1624 -45	1667 -45	1707 -45	1732 -46	
1747 -46	1783 -45	1845 -45	1901 -46	1933 -46	1998 -48	2046 -49	2071 -49	
2116 -50	2212 -52	2292 -52	2325 -53	2362 -54	2420 -54	2493 -56	2551 -58	
2583 -59	2633 -60	2676 -60	2731 -59	2797 -57	2917 -52	2962 -49	2990 -45	
3010 -40	3038 -34	3063 -27	3108 -20	3125 -15	3148 -9	3161 -3	3176 1	
3190 1	3220 10							

			SECTION # 92 AT MILE 72.5					
460 10	480 1	493 2	531 0	569 -2	586 -4	599 -6	690 -21	
818 -43	856 -48	878 -49	887 -49	909 -49	973 -48	1046 -47	1112 -45	
1159 -46	1344 -44	1382 -44	1450 -44	1585 -46	1627 -46	1676 -46	1773 -46	
1828 -45	1914 -45	2047 -44	2100 -45	2184 -45	2244 -45	2321 -48	2458 -52	
2569 -56	2639 -58	2639 -58	2699 -61	2763 -65	2840 -68	2898 -71	2924 -72	
2949 -72	2975 -71	2995 -69	3028 -66	3053 -64	3064 -62	3075 -59	3070 -58	
3101 -51	3159 -38	3198 -24	3221 -13	3227 -6	3227 -2	3247 1	3280 1	
3300 10								

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		SECTION # 93 AT MILE 72.0		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	
450	10	480	1	505	2	533	0	564	-4	648	-34	709	-48	728	-51
755	-52	809	-54	867	-55	912	-55	971	-54	1033	-53	1083	-52	1145	-50
1209	-47	1264	-44	1300	-42	1309	-41	1323	-42	1345	-42	1423	-45	1471	-46
1500	-47	1538	-49	1552	-49	1573	-49	1630	-49	1723	-48	1814	-49	1892	-49
1957	-49	2028	-49	2092	-49	2187	-48	2206	-48	2292	-48	2364	-48	2463	-49
2535	-49	2599	-50	2647	-51	2697	-52	2706	-52	2721	-52	2799	-51	2813	-50
2840	-50	2868	-49	2909	-48	2989	-46	3028	-44	3092	-41	3135	-37	3149	-35
3175	-31	3206	-26	3220	-21	3232	-17	3232	-14	3249	-10	3263	-6	3275	-2
3294	2	3310	1	3340	10										

STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		SECTION # 94 AT MILE 71.6		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	
430	10	455	1	498	2	568	0	647	-4	672	-5	694	-8	724	-14
737	-19	753	-24	805	-30	839	-37	873	-42	950	-46	1133	-53	1212	-56
1255	-57	1282	-57	1323	-57	1332	-57	1341	-56	1352	-55	1370	-54	1418	-54
1472	-53	1524	-51	1573	-48	1603	-46	1646	-45	1675	-43	1720	-43	1759	-42
1788	-42	1806	-42	1836	-43	1883	-44	1922	-46	1942	-47	1994	-49	2046	-51
2093	-52	2116	-52	2157	-52	2218	-53	2256	-53	2306	-52	2364	-52	2403	-52
2466	-52	2584	-53	2658	-54	2728	-54	2783	-53	2846	-52	2909	-50	2957	-48
2975	-47	2988	-46	3006	-46	3018	-46	3049	-46	3058	-45	3065	-44	3090	-40
3131	-33	3178	-26	3185	-24	3232	-17	3253	-14	3266	-10	3282	-7	3291	-4
3302	0	3302	2	3302	1	3330	10								

STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		SECTION # 95 AT MILE 71.1		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	
420	10	440	1	482	2	492	-1	508	-5	660	-27	851	-58	851	-58
885	-60	969	-63	1050	-66	1118	-67	1189	-68	1249	-68	1283	-67	1331	-65
1475	-58	1467	-58	1501	-55	1566	-51	1661	-49	1729	-49	1771	-49	1823	-49
1931	-51	2027	-53	2130	-54	2224	-56	2279	-57	2300	-58	2360	-58	2415	-58
2465	-58	2507	-57	2609	-53	2675	-50	2719	-47	2740	-44	2779	-29	2792	-25
2800	-19	2868	-7	2910	3	2915	1	2960	20						

STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		SECTION # 96 AT MILE 70.9		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	
420	10	500	2	504	3	564	-23	631	-58	631	-58	747	-80	765	-82
787	-83	802	-84	811	-84	824	-83	846	-82	999	-74	1063	-71	1109	-70
1146	-70	1179	-69	1238	-66	1295	-62	1352	-58	1356	-58	1383	-56	1426	-54
1444	-53	1490	-53	1569	-54	1656	-54	1731	-55	1799	-57	1840	-58	1882	-59
1930	-59	1978	-61	2009	-61	2044	-61	2083	-60	2134	-59	2169	-57	2256	-54
2316	-49	2357	-44	2383	-38	2405	-27	2416	-21	2445	-12	2482	-6	2513	-3
2535	1	2545	3	2550	2	2630	20								

STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		SECTION # 97 AT MILE 70.3		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.		STAT. ELEV.	
460	10	480	2	502	-6	541	-17	577	-33	591	-42	620	-49	641	-51
654	-58	654	-58	693	-66	707	-67	734	-68	768	-69	799	-68	818	-67
874	-68	909	-68	1102	-64	1164	-64	1247	-62	1459	-60	1496	-60	1531	-59
1560	-59	1666	-59	1814	-59	2002	-59	2081	-59	2108	-59	2133	-58	2142	-58
2160	-58	2208	-60	2225	-60	2243	-60	2293	-59	2355	-58	2364	-59	2415	-58
2507	-55	2565	-52	2604	-48	2623	-45	2677	-33	2681	-34	2708	-25	2729	-15
2760	-7	2766	-6	2785	-4	2822	-4	2872	-3	2895	-3	2922	-3	2945	-1
2959	1	2972	2	2980	2	3010	10								

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

SECTION # 98 AT MILE 69.0													
STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.
270	20	400	1	405	-7	416	-8	447	-11	484	-13	521	-16
595	-21	616	-22	642	-24	679	-26	721	-28	747	-29	816	-30
937	-31	1031	-32	1100	-32	1184	-33	1247	-33	1342	-34	1426	-34
1605	-36	1683	-37	1705	-38	1720	-38	1757	-38	1783	-38	1820	-38
1920	-39	2015	-40	2104	-40	2183	-40	2267	-39	2352	-39	2457	-39
2625	-41	2714	-42	2804	-44	2841	-45	2878	-45	2946	-46	2998	-47
3141	-48	3272	-47	3382	-47	3530	-46	3645	-44	3809	-43	3966	-40
4271	-35	4424	-32	4545	-28	4645	-25	4703	-22	4750	-21	4792	-19
4861	-13	4887	-11	4913	-9	4925	1	4950	10				

SECTION # 99 AT MILE 67.7															
380	10	480	1	498	-22	527	-24	541	-27	553	-30	564	-33	570	-36
582	-39	592	-43	598	-47	613	-50	625	-54	639	-57	650	-59	650	-59
670	-61	691	-64	715	-66	744	-67	783	-67	832	-69	851	-69	883	-68
896	-66	914	-65	937	-66	982	-70	990	-71	1035	-71	1058	-70	1072	-68
1097	-66	1111	-65	1148	-68	1166	-69	1174	-68	1232	-68	1265	-66	1289	-64
1306	-64	1326	-64	1365	-66	1414	-64	1457	-66	1500	-69	1545	-71	1574	-72
1636	-72	1699	-70	1775	-69	1839	-68	1906	-68	1982	-65	2072	-62	2130	-61
2208	-60	2261	-59	2279	-59	2347	-56	2433	-52	2503	-49	2536	-46	2575	-44
2603	-44	2620	-42	2640	-36	2665	-30	2685	-25	2700	-21	2712	-18	2730	1
2830	10														

SECTION #100 AT MILE 66.2															
450	20	570	1	614	-7	658	-9	708	-11	733	-13	762	-15	787	-17
812	-19	842	-22	886	-25	931	-28	960	-30	995	-33	1025	-35	1054	-38
1094	-41	1109	-45	1153	-48	1183	-51	1193	-54	1198	-58	1198	-59	1198	-59
1203	-59	1208	-57	1208	-57	1213	-57	1228	-57	1233	-57	1252	-58	1272	-59
1272	-59	1277	-59	1297	-60	1302	-61	1307	-61	1322	-61	1337	-61	1356	-60
1381	-60	1391	-59	1416	-60	1440	-58	1520	-57	1653	-54	1797	-52	1827	-52
1851	-52	1901	-52	1985	-53	2223	-57	2307	-58	2401	-58	2539	-58	2658	-57
2777	-55	2945	-53	3064	-52	3178	-49	3282	-47	3445	-41	3628	-33	3663	-31
3678	-29	3708	-26	3762	-21	3821	-16	3871	-12	3870	8	4170	10		

SECTION #101 AT MILE 63.6															
480	10	480	1	494	-6	514	-6	557	-7	583	-7	600	-6	614	-5
628	-4	750	-4	1448	-2	1609	-3	1721	-9	1826	-14	1911	-17	1956	-18
1976	-18	1989	-17	2003	-17	2023	-18	2029	-19	2082	-22	2135	-23	2234	-25
2320	-26	2381	-26	2478	-28	2533	-29	2606	-32	2616	-32	2639	-31	2651	-31
2695	-32	2708	-32	2746	-32	2775	-32	2811	-33	2860	-34	2972	-36	3039	-36
3083	-37	3163	-38	3223	-39	3325	-39	3437	-40	3526	-40	3650	-41	3837	-40
4105	-41	4158	-41	4418	-42	4540	-43	4627	-44	4659	-44	4716	-44	4753	-45
4783	-46	4804	-45	4828	-45	4883	-48	4960	-56	4992	-59	5025	-60	5043	-61
5084	-60	5153	-59	5232	-57	5283	-56	5317	-52	5340	-46	5364	-40	5447	-17
5482	-12	5580	1	5600	20										

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

SECTION #102 AT MILE 61.3															
STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.
0	15	476	10	476	-11	519	-13	519	-16	549	-18	563	-20	573	-21
607	-21	626	-22	690	-24	777	-25	874	-26	962	-27	1078	-29	1195	-30
1331	-31	1394	-31	1438	-31	1457	-32	1482	-31	1511	-31	1584	-31	1662	-32
1725	-32	1788	-32	1856	-32	1939	-32	2016	-33	2075	-33	2104	-34	2128	-34
2152	-34	2177	-33	2206	-33	2245	-34	2342	-34	2434	-35	2493	-35	2541	-36
2658	-36	2847	-37	3042	-39	3139	-40	3202	-41	3217	-42	3246	-42	3270	-41
3299	-41	3338	-42	3503	-44	3562	-45	3586	-45	3610	-45	3698	-43	3737	-43
3858	-44	3970	-44	4043	-44	4320	-41	4393	-40	4524	-39	4587	-37	4665	-30
4694	-21	4705	-13	4830	1	4880	20								
SECTION #103 AT MILE 59.1															
30	20	500	1	502	-1	2161	-2	2223	-2	2331	-2	2436	-3	2482	-4
2549	-7	2598	-10	2638	-13	2673	-16	2718	-18	2784	-20	2875	-22	2969	-23
3097	-24	3195	-24	3299	-25	3384	-25	3535	-27	3663	-27	3790	-28	3925	-29
4008	-29	4163	-29	4301	-30	4401	-30	4489	-31	4598	-32	4678	-33	4785	-33
4889	-35	4991	-36	5073	-37	5155	-38	5264	-38	5342	-39	5446	-39	5513	-40
5564	-39	5626	-40	5715	-39	5788	-39	5906	-39	6017	-38	6125	-37	6234	-36
6301	-35	6336	-35	6367	-35	6385	-35	6399	-35	6423	-35	6445	-35	6490	-35
6516	-35	6618	-34	6663	-34	6729	-34	6778	-35	6814	-35	6858	-35	6905	-34
6960	-33	7007	-32	7042	-30	7045	-29	7049	-28	7058	-28	7067	-28	7071	-27
7073	-27	7122	-25	7144	-24	7158	-21	7176	-19	7182	-17	7189	-16	7202	-16
7218	-16	7227	-16	7244	-15	7271	-11	7307	-9	7340	-6	7389	-5	7457	-4
7513	-4	7551	-5	7575	-5	7613	-4	7651	-4	7671	-4	7780	1	7800	10
SECTION #104 AT MILE 57.5															
430	15	450	1	467	-3	555	-9	616	-11	627	-12	688	-13	748	-14
787	-14	809	-12	870	-10	886	-9	942	-7	1046	-5	1118	-4	1173	-3
1278	-3	1427	-3	1571	-2	1714	-2	1880	-2	1990	-3	2134	-3	2200	-3
2250	-4	2300	-4	2371	-3	2476	-4	2570	-5	2636	-8	2691	-11	2708	-14
2752	-17	2813	-19	2967	-24	2995	-24	3056	-25	3100	-25	3111	-26	3133	-28
3177	-28	3343	-30	3387	-30	3448	-31	3486	-31	3525	-31	3536	-31	3547	-33
3735	-38	3944	-41	4160	-44	4215	-44	4276	-44	4436	-42	4585	-42	4657	-42
4706	-41	4960	-39	5297	-38	5600	-37	5783	-36	5992	-35	6169	-34	6268	-33
6357	-32	6434	-30	6511	-29	6539	-29	6578	-29	6655	-27	6826	-25	7008	-22
7069	-20	7107	-17	7163	-12	7179	-9	7212	-7	7295	-5	7394	-5	7621	-4
7781	-4	7891	-3	8283	-3	8377	-3	8526	-2	8681	-2	9000	1	9230	20
SECTION #105 AT MILE 56.2															
440	20	460	1	505	-14	543	-14	581	-12	605	-12	648	-11	686	-12
729	-14	820	-17	882	-18	902	-18	1016	-23	1078	-26	1141	-29	1207	-33
1289	-37	1375	-41	1413	-43	1466	-46	1532	-49	1595	-50	1604	-51	1614	-52
1695	-54	1800	-58	1862	-61	1862	-61	1867	-61	1924	-63	1977	-66	2034	-69
2068	-70	2120	-71	2163	-73	2230	-75	2326	-78	2398	-80	2422	-81	2445	-81
2484	-81	2536	-80	2570	-79	2637	-80	2689	-80	2708	-81	2732	-81	2766	-80
2809	-77	2847	-74	2885	-71	2923	-67	2952	-63	2966	-61	2962	-61	2981	-56
3000	-51	3005	-46	3014	-41	3038	-36	3048	-31	3057	-26	3067	-20	3091	-15
3100	-12	3120	1	3140	20										

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

			SECTION #106 AT MILE 55.0								
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
100 20	500 1	518 -17	522 -19	531 -23	540 -26	540 -29	558 -34				
562 -38	562 -41	585 -47	593 -50	602 -55	616 -59	616 -59	593 -59				
602 -63	611 -67	620 -73	625 -82	642 -89	656 -94	647 -99	665 -106				
674 -113	674 -116	696 -118	714 -120	727 -121	745 -120	785 -118	829 -117				
852 -115	869 -113	869 -112	896 -112	941 -111	981 -110	1025 -106	1047 -104				
1070 -101	1078 -97	1101 -94	1132 -87	1167 -83	1190 -79	1248 -71	1301 -67				
1341 -64	1399 -61	1434 -59	1443 -59	1497 -58	1546 -55	1608 -52	1733 -48				
1768 -47	1826 -45	1951 -41	2031 -39	2106 -38	2155 -37	2222 -36	2293 -34				
2400 -31	2462 -29	2534 -26	2560 -24	2565 -23	2580 1	2680 20					
			SECTION #107 AT MILE 53.9								
410 15	440 1	500 -2	676 -2	823 -2	902 -2	990 -1	1132 -1				
1284 -2	1475 -2	1627 -2	1789 -2	1852 -2	1887 -4	1926 -7	1960 -10				
1985 -13	2048 -17	2073 -19	2117 -22	2151 -25	2190 -26	2210 -27	2259 -27				
2288 -29	2342 -34	2386 -37	2421 -39	2475 -41	2475 -42	2489 -42	2529 -42				
2563 -41	2592 -42	2651 -43	2715 -46	2759 -47	2774 -49	2788 -51	2852 -53				
2925 -56	3019 -59	3019 -59	3043 -59	3131 -61	3185 -63	3215 -65	3259 -66				
3268 -68	3308 -69	3371 -71	3479 -73	3577 -75	3660 -77	3719 -80	3793 -82				
3832 -84	3861 -85	3891 -85	3925 -85	3954 -81	3989 -76	3999 -72	4018 -66				
4052 -59	4018 -59	4038 -54	4062 -49	4087 -44	4106 -39	4141 -34	4175 -29				
4220 1	4350 20										
			SECTION #108 AT MILE 52.9								
300 20	500 1	509 -6	538 -7	561 -10	713 -59	713 -59	792 -89				
894 -122	906 -126	923 -129	947 -130	944 -132	944 -134	964 -136	982 -142				
1002 -144	1037 -146	1069 -148	1113 -149	1160 -150	1195 -151	1207 -151	1204 -149				
1201 -147	1198 -145	1195 -144	1210 -143	1207 -142	1212 -141	1218 -141	1230 -141				
1245 -142	1250 -143	1248 -144	1256 -145	1259 -148	1274 -150	1300 -151	1321 -152				
1338 -153	1350 -153	1350 -152	1358 -150	1361 -148	1379 -148	1391 -148	1431 -151				
1449 -152	1458 -151	1481 -149	1516 -148	1563 -148	1598 -148	1653 -148	1683 -148				
1688 -147	1703 -145	1706 -142	1729 -139	1735 -138	1747 -138	1753 -135	1773 -132				
1776 -129	1782 -128	1761 -127	1776 -125	1805 -122	1814 -118	1834 -113	1884 -93				
1887 -77	1954 -59	1960 -59	2033 -41	2144 -15	2160 1	2280 20					
			SECTION #109 AT MILE 51.6								
460 20	490 1	502 0	515 -2	547 -8	567 -15	589 -19	601 -22				
619 -26	633 -29	646 -34	663 -38	690 -43	707 -48	722 -52	742 -55				
754 -57	764 -59	764 -59	816 -65	866 -72	870 -72	900 -72	1031 -69				
1085 -68	1140 -67	1184 -66	1258 -65	1313 -64	1372 -63	1411 -62	1468 -62				
1540 -63	1574 -63	1611 -65	1639 -66	1653 -65	1668 -65	1787 -65	1809 -65				
1846 -66	1898 -66	1952 -65	2022 -65	2078 -65	2130 -66	2170 -65	2199 -64				
2241 -63	2273 -62	2313 -61	2355 -61	2362 -61	2382 -60	2422 -60	2434 -60				
2432 -60	2441 -59	2451 -57	2476 -54	2491 -51	2506 -46	2518 -44	2533 -43				
2558 -39	2575 -36	2592 -31	2599 -30	2600 10	2850 20						

34

SECTION #110 AT MILE 49.3									
STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.	STAT. ELEV.
450 -20	480 -1	495 -4	515 -5	532 -9	541 -12	558 -17	566 -21		
590 -28	597 -32	619 -36	648 -41	673 -46	699 -51	724 -55	748 -58		
753 -59	753 -59	770 -61	784 -63	782 -65	816 -69	840 -74	874 -78		
916 -83	979 -89	1059 -98	1129 -105	1200 -110	1246 -113	1324 -117	1348 -118		
1385 -118	1404 -118	1443 -119	1506 -119	1557 -119	1606 -119	1630 -118	1640 -117		
1674 -114	1717 -112	1766 -110	1778 -106	1793 -102	1805 -98	1817 -97	1822 -93		
1832 -88	1839 -83	1854 -78	1849 -75	1863 -72	1873 -69	1875 -66	1885 -63		
1900 -59	1890 -60	1895 -53	1912 -43	1924 -37	1934 -28	1948 -21	1963 -18		
1980 -1	2080 -20								

SECTION #111 AT MILE 46.5															
350	20	500	0	518	-6	571	-7	602	-8	624	-10	648	-13	659	-15
666	-20	669	-25	684	-30	691	-35	698	-40	698	-45	715	-50	722	-55
744	-60	744	-60	789	-62	825	-65	874	-70	920	-75	966	-80	1005	-83
1054	-88	1111	-92	1142	-95	1188	-98	1227	-99	1262	-100	1330	-102	1418	-103
1510	-105	1591	-106	1633	-107	1675	-107	1735	-106	1781	-105	1803	-104	1834	-102
1894	-97	1919	-95	1954	-90	1972	-87	2018	-82	2046	-77	2074	-73	2110	-68
2127	-63	2131	-62	2145	-60	2170	-60	2212	-55	2258	-50	2265	-47	2286	-45
2314	-40	2353	-35	2374	-30	2392	-27	2406	-25	2413	-22	2427	-20	2438	-19
2449	-18	2466	-18	2509	-18	2510	10	2800	20						

				SECTION #112 AT MILE 44.4											
350	20	480	0	494	-6	538	-8	560	-9	576	-10	579	-11	582	-11
585	-13	601	-15	636	-16	649	-17	645	-18	655	-20	664	-25	683	-30
693	-35	712	-40	728	-45	743	-50	746	-55	762	-60	762	-60	759	-60
800	-63	832	-65	863	-66	901	-66	914	-66	927	-67	965	-70	996	-71
1034	-72	1047	-72	1056	-71	1094	-71	1119	-71	1135	-70	1167	-70	1211	-70
1287	-68	1328	-68	1363	-68	1369	-67	1391	-66	1448	-66	1492	-66	1584	-67
1631	-66	1669	-66	1736	-66	1849	-65	1922	-65	1998	-65	2029	-65	2064	-66
2112	-66	2175	-64	2187	-64	2216	-65	2235	-65	2251	-64	2270	-65	2298	-65
2349	-65	2387	-64	2431	-63	2497	-63	2548	-61	2611	-60	2614	-60	2674	-58
2718	-55	2753	-50	2775	-45	2791	-40	2816	-30	2832	-20	2857	-15	2883	-11
2900	0	3000	20												

[illegible]

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

SECTION #114 AT MILE 41.4											
STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.
410	20	490	1	504	-5	546	-7	556	-9	595	-13
694	-17	725	-18	760	-18	796	-19	919	-23	954	-24
1077	-28	1084	-29	1102	-29	1144	-31	1162	-32	1211	-32
1644	-45	1658	-46	1679	-47	1711	-47	2007	-52	2017	-53
2130	-54	2165	-56	2186	-56	2218	-56	2235	-56	2256	-59
2320	-58	2348	-58	2411	-59	2464	-60	2464	-60	2552	-61
2672	-63	2700	-63	2725	-62	2749	-62	2777	-62	2806	-63
2932	-61	2960	-60	2978	-60	3003	-60	2999	-60	3056	-59
3217	-57	3337	-55	3383	-55	3415	-55	3439	-56	3506	-60
3633	-62	3661	-61	3700	-60	3738	-55	3760	-50	3791	-41
3840	-34	3848	-30	3862	-24	3897	-22	3928	-20	3957	-17
3999	-16	4009	-16	4024	-16	4034	-15	4048	-15	4062	-15
4400	10									4075	1
										4100	8

SECTION #115 AT MILE 40.1															
300	10	490	1	502	-4	554	-5	572	-6	595	-7	819	-9	846	-9
860	-8	877	-6	893	-6	923	-5	1188	-6	1498	-7	1672	-6	1714	-7
1732	-6	1994	-6	2006	-7	2025	-6	2038	-6	2066	-7	2119	-7	2220	-8
2273	-8	2291	-9	2331	-9	2534	-12	2585	-12	2798	-15	2853	-16	2878	-17
2927	-16	2989	-18	3081	-19	3101	-19	3177	-17	3206	-18	3221	-19	3235	-20
3241	-21	3275	-20	3290	-20	3472	-27	3498	-27	3606	-32	3625	-33	3639	-33
3779	-41	3906	-49	4031	-59	4031	-59	4105	-69	4178	-79	4255	-89	4304	-96
4355	-98	4416	-98	4442	-99	4529	-99	4612	-99	4686	-97	4740	-96	4780	-95
4821	-95	4837	-96	4864	-95	4954	-90	4992	-89	5091	-80	5142	-76	5192	-74
5254	-73	5288	-73	5300	-73	5316	-73	5322	-72	5336	-72	5356	-73	5371	-72
5425	-72	5440	-71	5488	-60	5488	-60	5517	-50	5542	-40	5564	-30	5585	-20
5611	-11	5621	-11	5631	-10	5635	1	5670	20						

						SECTION #116 AT MILE 38.8											
400	20	460	1	481	-5	629	-9	663	-9	692	-9	718	-9	798	-9		
868	-10	946	-13	1132	-12	1255	-12	1331	-12	1378	-12	1409	-12	1452	-12		
1481	-12	1517	-12	1555	-12	1591	-11	1902	-11	1983	-12	2059	-12	2118	-13		
2135	-13	2158	-15	2190	-16	2230	-17	2304	-16	2325	-17	2378	-17	2463	-17		
2499	-16	2524	-17	2585	-14	2653	-14	2721	-16	2748	-18	2763	-18	2852	-25		
2909	-26	2947	-27	3110	-30	3252	-30	3372	-30	3421	-30	3463	-30	3683	-31		
4121	-33	4163	-34	4241	-34	4284	-35	4516	-37	4571	-37	4717	-39	4772	-39		
4948	-40	5024	-41	5109	-41	5468	-40	5504	-41	5578	-40	5872	-38	5891	-38		
5914	-38	6128	-37	6230	-36	6278	-35	6293	-36	6312	-35	6445	-34	6653	-33		
6991	-31	7004	-32	7033	-32	7071	-31	7099	-32	7114	-33	7128	-32	7139	-32		
7194	-33	7236	-31	7255	-32	7274	-30	7308	-29	7331	-27	7372	-20	7395	-17		
7444	-15	7488	-12	7530	-8	7575	-5	7613	-5	7625	1	7650	8	85000	10		

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

SECTION #117 AT MILE 36.9															
STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.
430	10	450	2	459	-5	536	-8	657	-8	719	-11	833	-12	1252	-12
1321	-11	1525	-11	1588	-11	1996	-11	2342	-11	2486	-12	2654	-11	5181	-11
5398	-12	5657	-12	6020	-12	6104	-12	6398	-12	6538	-12	6839	-12	7032	-13
7041	-13	7406	-13	7552	-14	7632	-14	7713	-17	7743	-16	7771	-17	7832	-14
7883	-15	7909	-15	8036	-15	8088	-13	8113	-17	8156	-19	8208	-19	8302	-26
8440	-25	8507	-24	9196	-26	9422	-27	9616	-27	9659	-27	9682	-27	10069	-28
10142	-29	10215	-27	10340	-29	10375	-28	10420	-29	10456	-29	10516	-33	10585	-36
10652	-37	10697	-37	10897	-40	10985	-40	11077	-39	11238	-32	11400	-29	12055	-26
12853	-24	13532	-23	13848	-14	14140	-13	14185	-12	14243	-12	14344	-8	14527	-8
14590	-7	14669	-9	14890	-9	15200	-10	15279	-13	15316	-13	15410	-15	15518	-21
15544	-22	15595	-20	15662	-14	15739	-9	15750	2	15770	6	16400	10		

SECTION #118 AT MILE 35.0															
420	10	450	1	475	-4	537	-4	673	-8	735	-9	824	-9	1980	-9
2725	-9	3469	-9	3659	-9	3973	-9	4711	-10	4958	-11	5079	-9	5126	-9
5188	-10	5707	-9	6821	-9	7110	-9	7218	-9	7315	-9	7381	-9	7411	-9
7463	-9	7500	-9	7559	-10	7636	-10	7762	-12	8935	-12	9683	-12	10427	-12
10669	-12	10923	-13	11104	-13	11151	-13	11227	-14	11259	-13	11467	-15	11543	-16
11561	-17	11566	-18	11571	-20	11617	-22	11627	-22	11632	-22	11635	-20	11652	-19
11689	-19	11771	-22	11768	-21	11766	-20	11788	-20	11820	-21	11822	-22	12255	-32
12324	-34	12378	-34	12909	-39	13149	-40	13406	-42	13648	-42	13789	-41	13845	-41
13905	-40	13999	-37	14102	-34	14125	-34	14147	-35	14196	-33	14216	-33	14253	-33
14283	-33	14473	-23	14500	-22	14542	-16	14562	-15	14611	-15	14653	-15	14673	-14
14693	-14	14742	-11	14786	-9	14826	-6	14858	-5	14908	-5	14930	1	14980	20

				SECTION #119 AT MILE 33.8											
400	20	440	1	467	-1	504	-3	550	-6	590	-7	645	-9	691	-9
730	-9	951	-9	1166	-9	1266	-9	1293	-10	1315	-11	1363	-13	1380	-14
1418	-14	1435	-14	1562	-16	1588	-15	1602	-15	1610	-14	1619	-14	1641	-16
1678	-18	1796	-19	1853	-19	1867	-19	1884	-21	1921	-21	1952	-22	2138	-27
2261	-29	2307	-29	2344	-29	2372	-28	2504	-31	2664	-35	2712	-38	2760	-39
2845	-39	2874	-40	2918	-40	2970	-38	3029	-39	3146	-37	3237	-38	3290	-37
3601	-40	3822	-41	4168	-43	4418	-40	4898	-35	5145	-33	5180	-33	5224	-32
5388	-32	5408	-32	5441	-31	5539	-32	5587	-30	5611	-30	5784	-30	6019	-29
6082	-28	6174	-28	6203	-27	6220	-27	6249	-27	6266	-27	6332	-26	6450	-25
6492	-21	6514	-17	6512	-13	6538	-11	6573	-10	6601	-11	6614	-12	6632	-12
6663	-12	6744	-11	6805	-9	6869	-7	6921	-4	6950	-3	6969	-4	6985	-4
7000	1	7050	20												

SECTION #120 AT MILE 32.2															
200	10	490	6	510	1	520	-9	553	-11	620	-11	738	-11	818	-11
961	-12	1192	-11	1294	-10	1410	-11	1630	-11	1762	-10	1853	-11	2084	-11
2296	-11	2523	-10	2707	-10	2749	-10	2881	-10	3168	-10	3259	-10	3399	-11
3441	-11	3502	-11	3611	-12	3684	-13	3760	-16	3820	-20	3893	-26	3989	-31
4080	-33	4189	-34	4256	-35	4487	-36	4554	-38	4643	-37	4683	-38	4759	-36
4794	-36	5262	-30	5335	-29	5428	-30	5462	-30	5506	-28	5851	-28	5918	-28
6034	-28	6080	-28	6158	-29	6200	-28	6263	-29	6365	-29	6394	-29	6434	-28
6543	-29	6690	-28	6797	-29	6986	-28	7208	-28	7431	-28	7529	-28	7660	-28
7840	-27	8130	-28	8201	-28	8328	-27	8392	-27	8437	-26	8466	-25	8512	-26
8748	-20	8819	-19	8919	-18	8979	-17	9126	-19	9162	-19	9191	-17	9320	-16
9380	-16	9447	-16	9520	-17	9738	-17	9901	-18	10003	-17	10105	-16	10190	-15
10252	-12	10332	-9	10390	-8	10484	-5	10561	-4	10650	-3	10660	1	10700	10

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

SECTION #121 AT MILE 29.7															
STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.
450	10	480	0	505	-6	584	-7	663	-8	795	-9	924	-9	1044	-11
1407	-10	1661	-10	1823	-10	2067	-11	2128	-11	2187	-12	2240	-12	2659	-27
2702	-26	2776	-31	2811	-31	2905	-34	2936	-34	3045	-37	3162	-38	3444	-40
3599	-39	3723	-39	3812	-37	3860	-38	3919	-36	3992	-36	4041	-35	4948	-30
5100	-30	5250	-27	5273	-26	5308	-26	5443	-25	5496	-26	5542	-28	5570	-27
5610	-23	5623	-23	5661	-24	5687	-22	5710	-22	5755	-25	5793	-26	5925	-24
5961	-25	6098	-24	6146	-23	6190	-23	6294	-21	6342	-21	6736	-18	6825	-17
6870	-18	6896	-17	6921	-16	6947	-18	7041	-18	7165	-15	7234	-15	7335	-14
7625	-14	7670	-13	7838	-14	7947	-13	8184	-13	8244	-14	8267	-13	8344	-13
8430	-13	8755	-12	8885	-12	9012	-11	9372	-11	9502	-12	9591	-12	9649	-13
9730	-12	9911	-12	10066	-12	10213	-13	10561	-13	11625	-14	11668	-13	11722	-14
12420	-15	12562	-15	12827	-9	12880	-9	12964	-8	13032	-7	13098	-6	13139	-6
13185	-6	13210	0	13300	20										

SECTION #122 AT MILE 27.3															
450	10	490	0	502	-6	632	-6	683	-7	1170	-8	1377	-7	1416	-8
1465	-7	1581	-11	1651	-12	1720	-14	1869	-17	1931	-15	2001	-15	2075	-11
2284	-11	2518	-16	2549	-15	2593	-18	2788	-22	2843	-21	2964	-25	3008	-29
3119	-31	3210	-32	3365	-37	3393	-36	3453	-38	3502	-38	3583	-39	3602	-39
3641	-40	3678	-40	3832	-43	3890	-42	4045	-45	4089	-45	4128	-45	4203	-43
4333	-42	4381	-43	4402	-42	4495	-41	4553	-40	4592	-40	4692	-38	4743	-38
4850	-36	4882	-35	4922	-35	5003	-34	5066	-34	5075	-33	5128	-32	5177	-31
5200	-31	5226	-30	5263	-31	5295	-30	5333	-30	5351	-29	5398	-30	5555	-25
5732	-24	5794	-17	5933	-17	6017	-18	6103	-16	6323	-16	6353	-15	6409	-16
6430	-15	7627	-12	9441	-10	9606	-12	9701	-9	9743	-12	9875	-12	9922	-11
10156	-11	10239	-12	10304	-10	10372	-11	10413	-10	10434	-11	10495	-10	10573	-11
10638	-9	12265	-9	12673	-11	12845	-10	12905	-11	13151	-10	13260	-9	13313	-7
13330	0	13450	20												

						SECTION #123 AT MILE 24.9									
460	10	480	2	498	-5	575	-6	609	-7	702	-8	786	-9	894	-12
945	-12	993	-14	1141	-18	1285	-28	1314	-29	1341	-34	1414	-38	1439	-38
1479	-40	1713	-46	1758	-46	1819	-45	1871	-46	1923	-47	1957	-48	2071	-48
2130	-50	2174	-49	2264	-50	2385	-48	2480	-48	2677	-48	2835	-47	2896	-46
2921	-46	3046	-43	3098	-43	3230	-39	3286	-39	3430	-35	3457	-36	3539	-33
3701	-30	3722	-31	3758	-29	3831	-28	3979	-26	4014	-27	4242	-22	4353	-21
4407	-20	4469	-21	4676	-19	4843	-20	4878	-20	5219	-21	5262	-21	5325	-21
5434	-21	5538	-18	5609	-21	5648	-20	5719	-21	5822	-22	5897	-18	5968	-17
6229	-24	6279	-23	6339	-25	6387	-24	6419	-24	6510	-24	6719	-33	6776	-31
6815	-32	6917	-23	6967	-24	7022	-22	7143	-24	7193	-24	7251	-25	7316	-22
7362	-21	7380	2	7400	9	9800	10								

SECTION #124 AT MILE 22.7															
100	10	480	8	495	2	507	-14	522	-14	607	-18	649	-18	686	-20
735	-28	937	-36	1139	-40	1188	-42	1253	-42	1512	-48	1650	-51	1705	-50
1785	-51	1865	-50	1919	-51	1972	-51	2061	-51	2227	-52	2305	-51	2371	-52
2445	-52	2553	-51	2702	-48	2884	-43	3002	-39	3228	-32	3406	-28	3457	-27
3648	-25	3730	-22	3768	-22	3894	-23	3985	-23	4110	-21	4221	-20	4398	-20
4449	-19	4480	-19	4527	-17	4607	-16	4740	-12	4785	-11	4871	-8	4953	-6
5018	-5	5100	-5	5220	-4	5459	-4	5522	-4	5673	-4	5855	-4	5895	-4
5946	-4	6014	-3	6063	-4	6099	-4	6172	-4	6243	-4	6281	-4	6341	-4
6445	-4	6498	-3	6552	-3	6565	2	6690	20						

TABLE 1.--RIVERBED ELEVATIONS OF HUDSON RIVER ESTUARY CROSS SECTIONS

SECTION #125 AT MILE 21.0															
STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.	STAT.	ELEV.
400	10	470	8	490	2	502	-13	534	-14	561	-17	593	-18	657	-18
671	-19	711	-34	725	-34	747	-34	765	-36	814	-36	863	-36	1027	-38
1059	-38	1081	-38	1108	-38	1139	-39	1247	-40	1286	-38	1335	-37	1353	-38
1382	-39	1426	-38	1482	-40	1517	-40	1745	-45	1801	-45	1911	-47	2046	-47
2075	-47	2141	-48	2237	-48	2276	-49	2386	-49	2423	-49	2497	-49	2565	-50
2627	-50	2661	-49	2722	-49	2783	-49	2815	-49	2874	-50	2948	-49	3136	-49
3217	-49	3266	-49	3342	-48	3398	-47	3445	-47	3504	-47	3582	-45	3643	-42
3697	-42	3785	-39	3830	-37	3954	-33	4079	-31	4219	-28	4285	-27	4347	-26
4484	-23	4690	-22	4753	-20	4829	-20	4866	-19	4986	-17	5106	-16	5197	-15
5238	-13	5287	-13	5339	-11	5395	-9	5469	-8	5537	-6	5586	-5	5645	-5
5674	-5	5696	-5	5700	2	5730	20								

FIGURE 3

Perspective plots of Hudson River cross sections

(Corresponding data are given in table 1.)

NOTES ON SCALE OF PLOTS

Sections 1-49:	Length of reach is 332,622 feet Width of cross section plot is 22,119 feet Depth of deepest cross section is 87.50 feet Viewing angle theta is 75 degrees
Sections 49-97:	Length of reach is 107,695 feet Width of cross section plot is 9,746 feet Depth of deepest cross section is 155.90 feet Viewing angle theta is 75 degrees
Sections 97-101:	Length of reach is 35,375 feet Width of cross section plot is 9,551 feet Depth of deepest cross section is 92.50 feet Viewing angle theta is 75 degrees
Sections 101-125:	Length of reach is 224,918 feet Width of cross section plot is 48,531 feet Depth of deepest cross section is 173.50 feet Viewing angle theta is 75 degrees

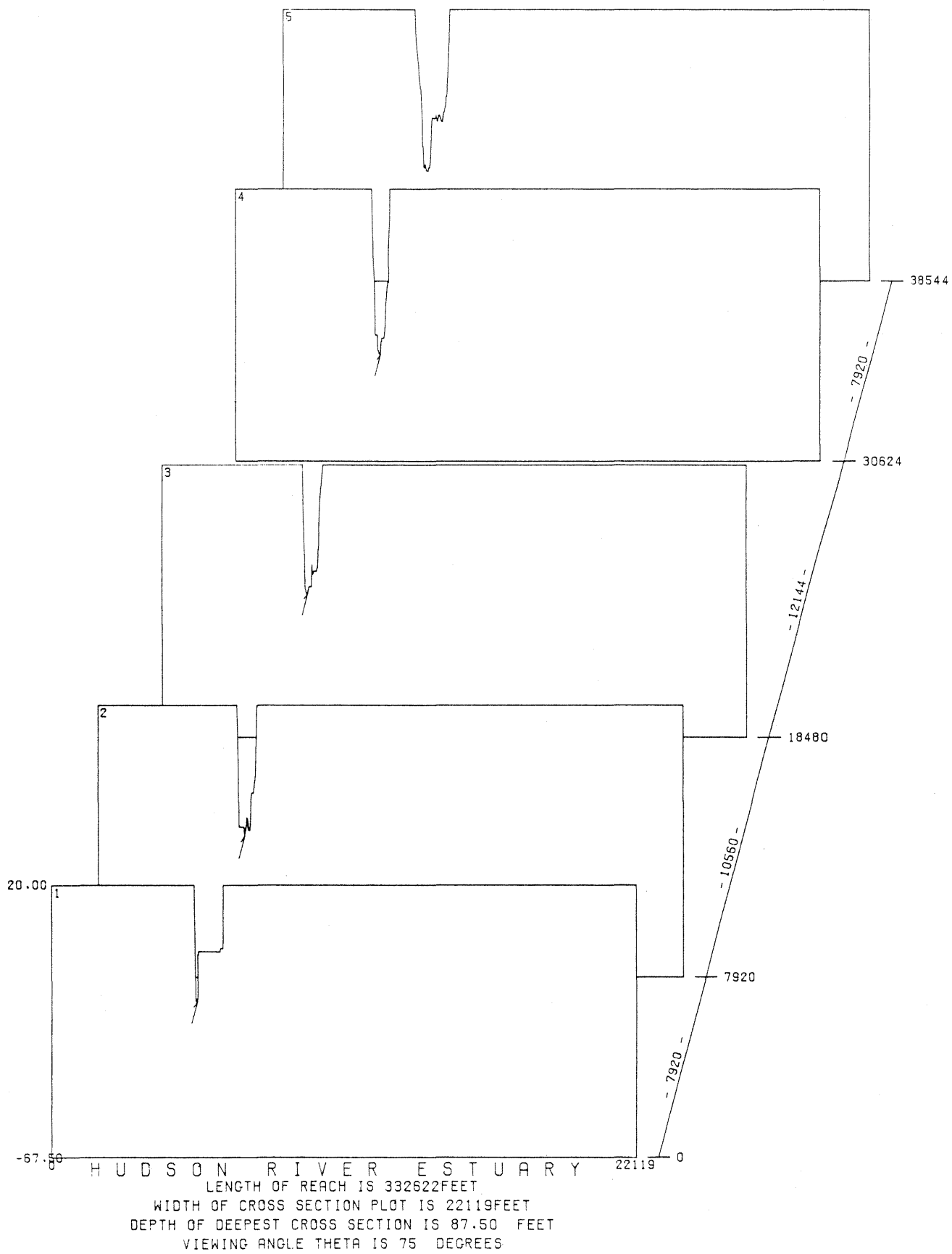


Figure 3.--Perspective plots of Hudson River cross sections 1 through 5.

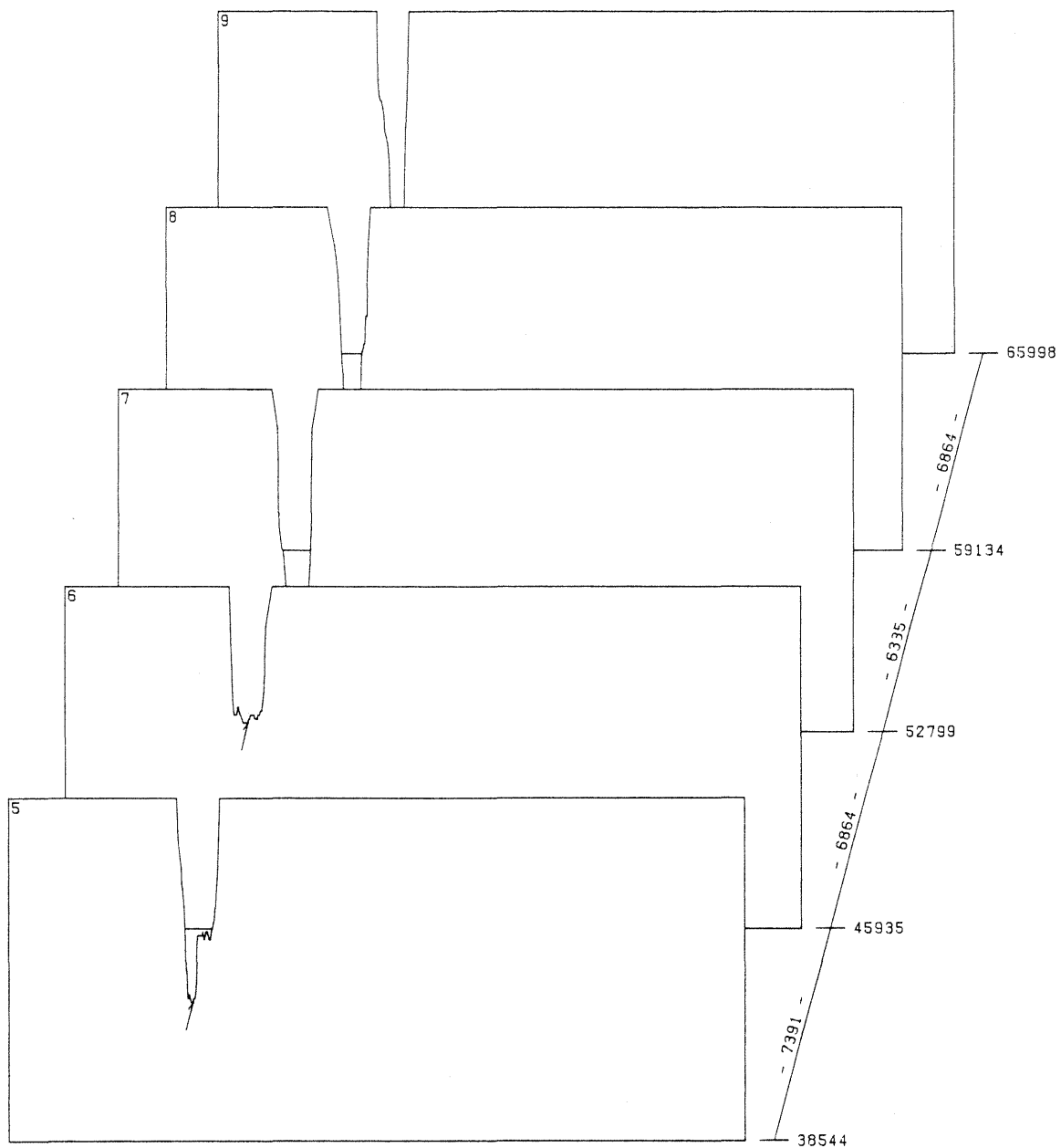


Figure 3.--Perspective plots of Hudson River cross sections 5 through 9.
(Information on scale of plots is given on page 39.)

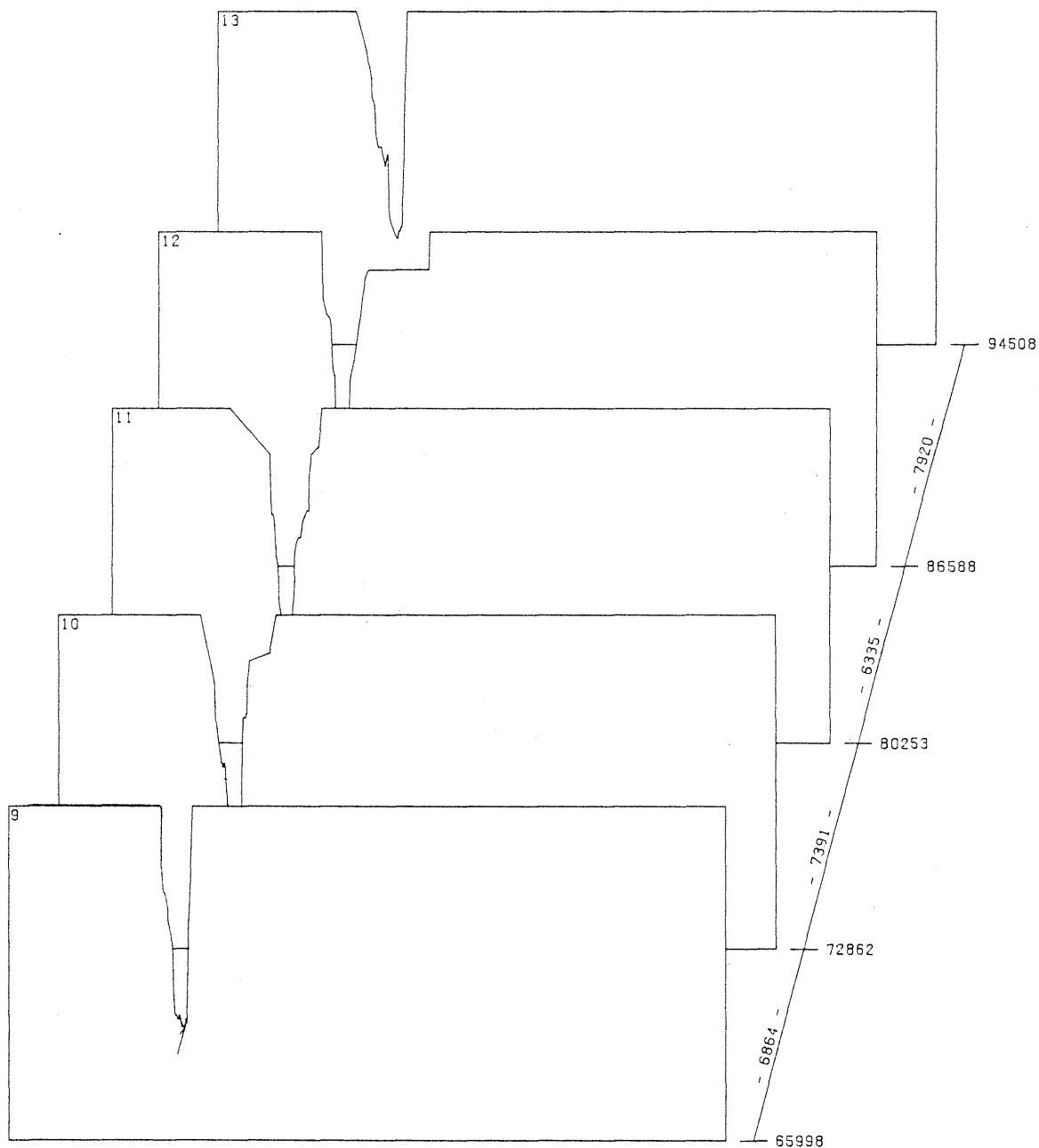


Figure 3.--Perspective plots of Hudson River cross sections 9 through 13.
 (Information on scale of plots is given on page 39.)

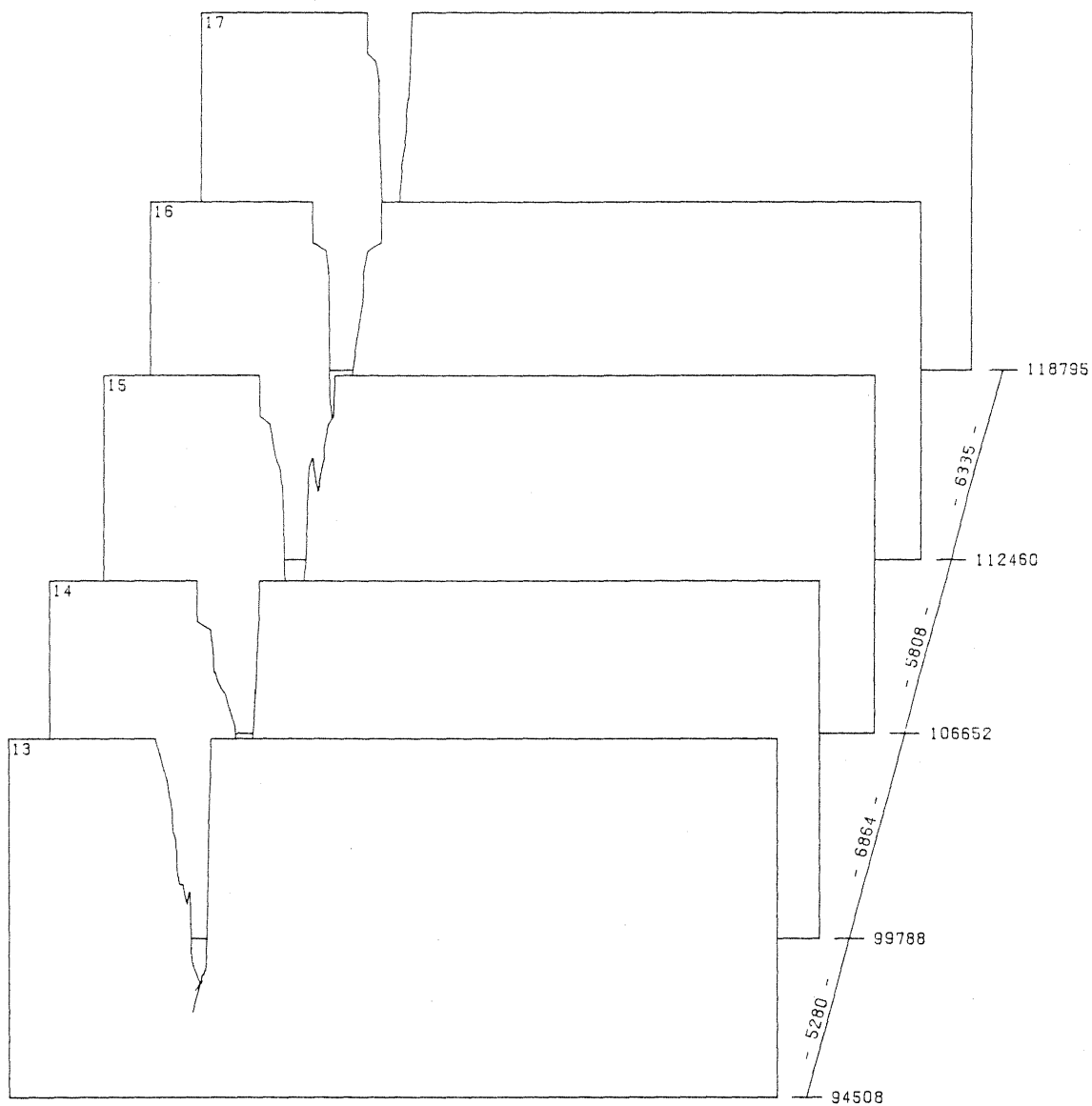


Figure 3.--Perspective plots of Hudson River cross sections 13 through 17.
(Information on scale of plots is given on page 39.)

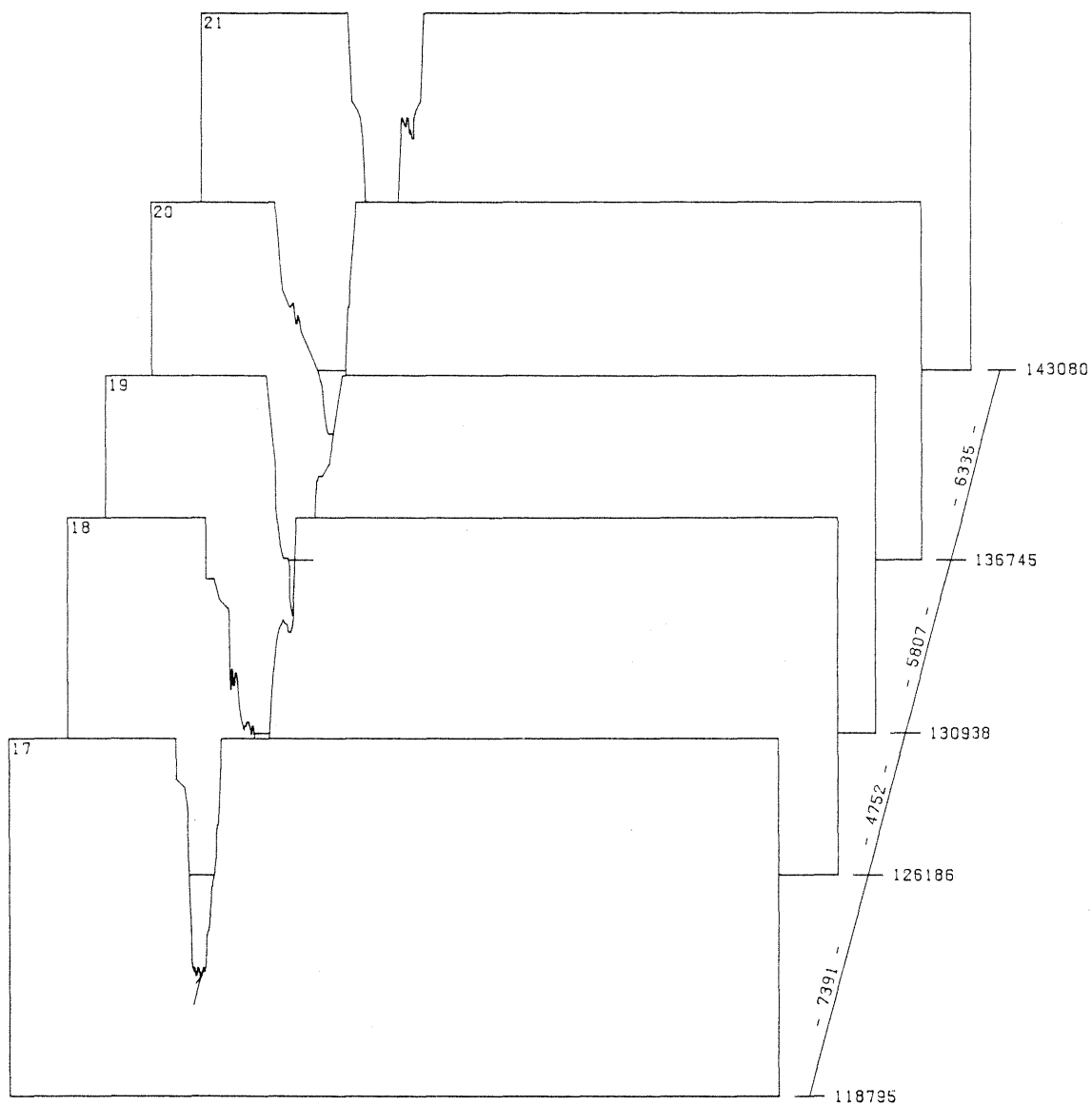


Figure 3.--Perspective plots of Hudson River cross sections 17 through 21.
(Information on scale of plots is given on page 39.)

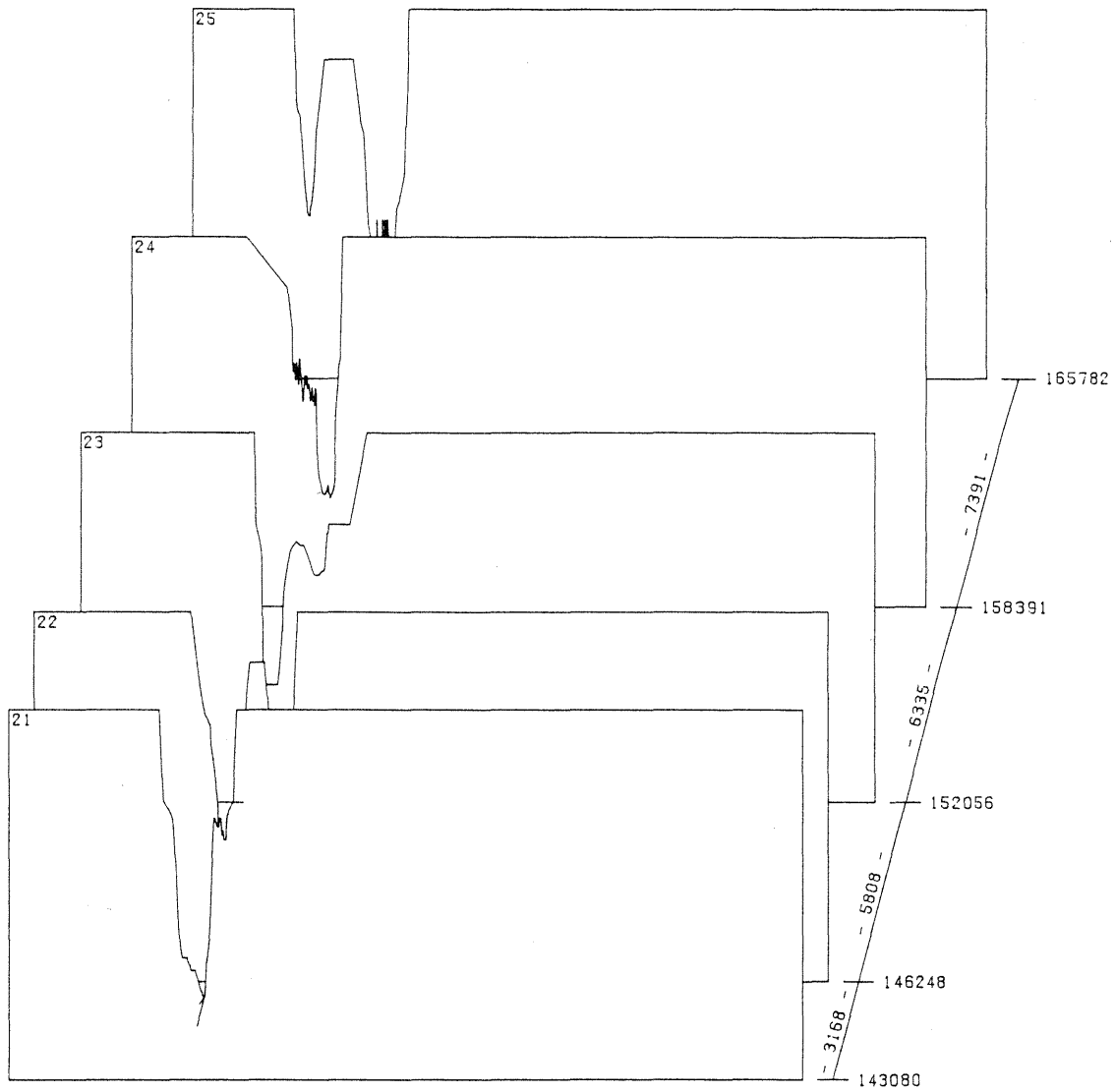


Figure 3.--Perspective plots of Hudson River cross sections 21 through 25.
(Information on scale of plots is given on page 39.)

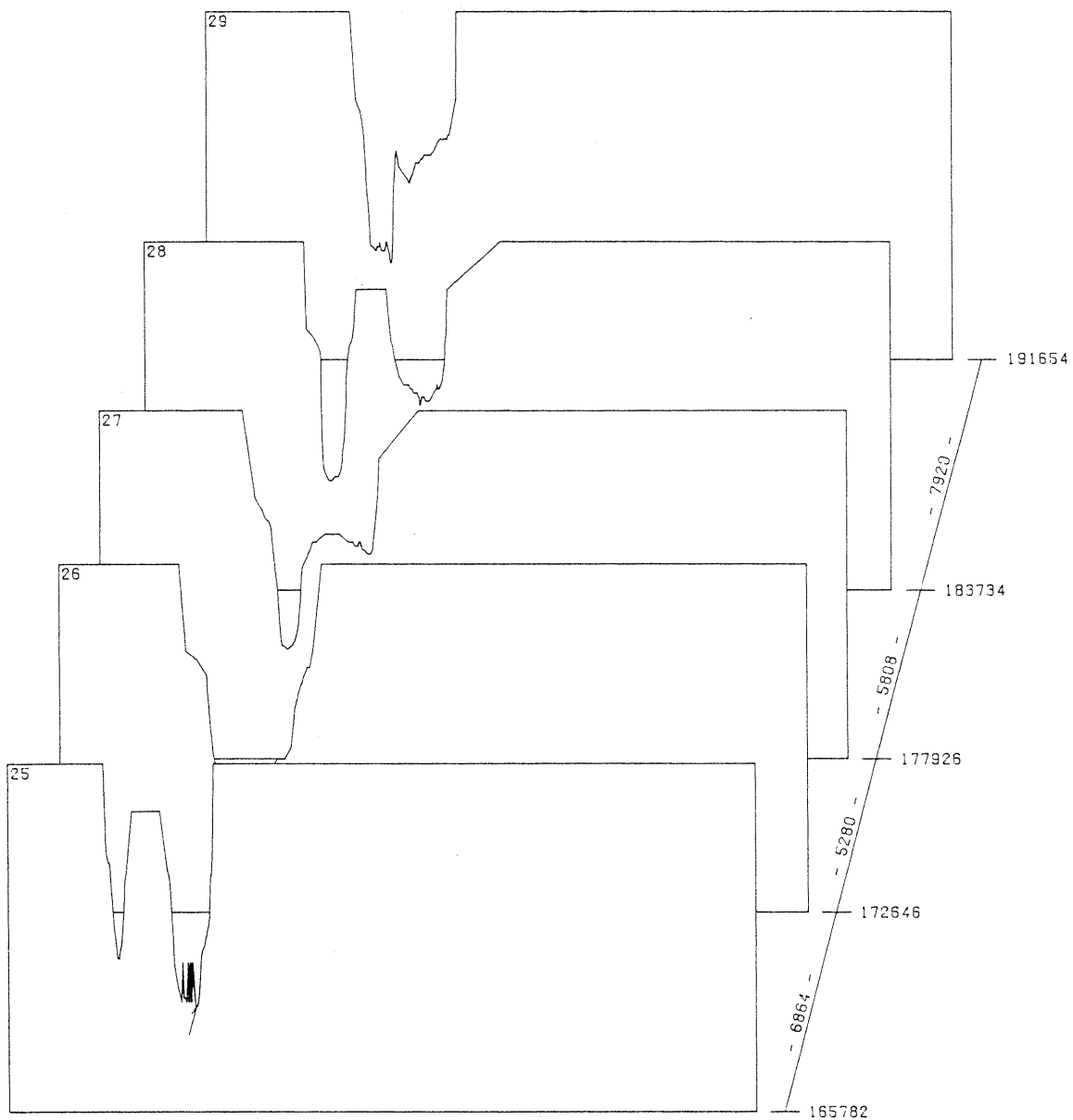


Figure 3.--Perspective plots of Hudson River cross sections 25 through 29.
(Information on scale of plots is given on page 39.)

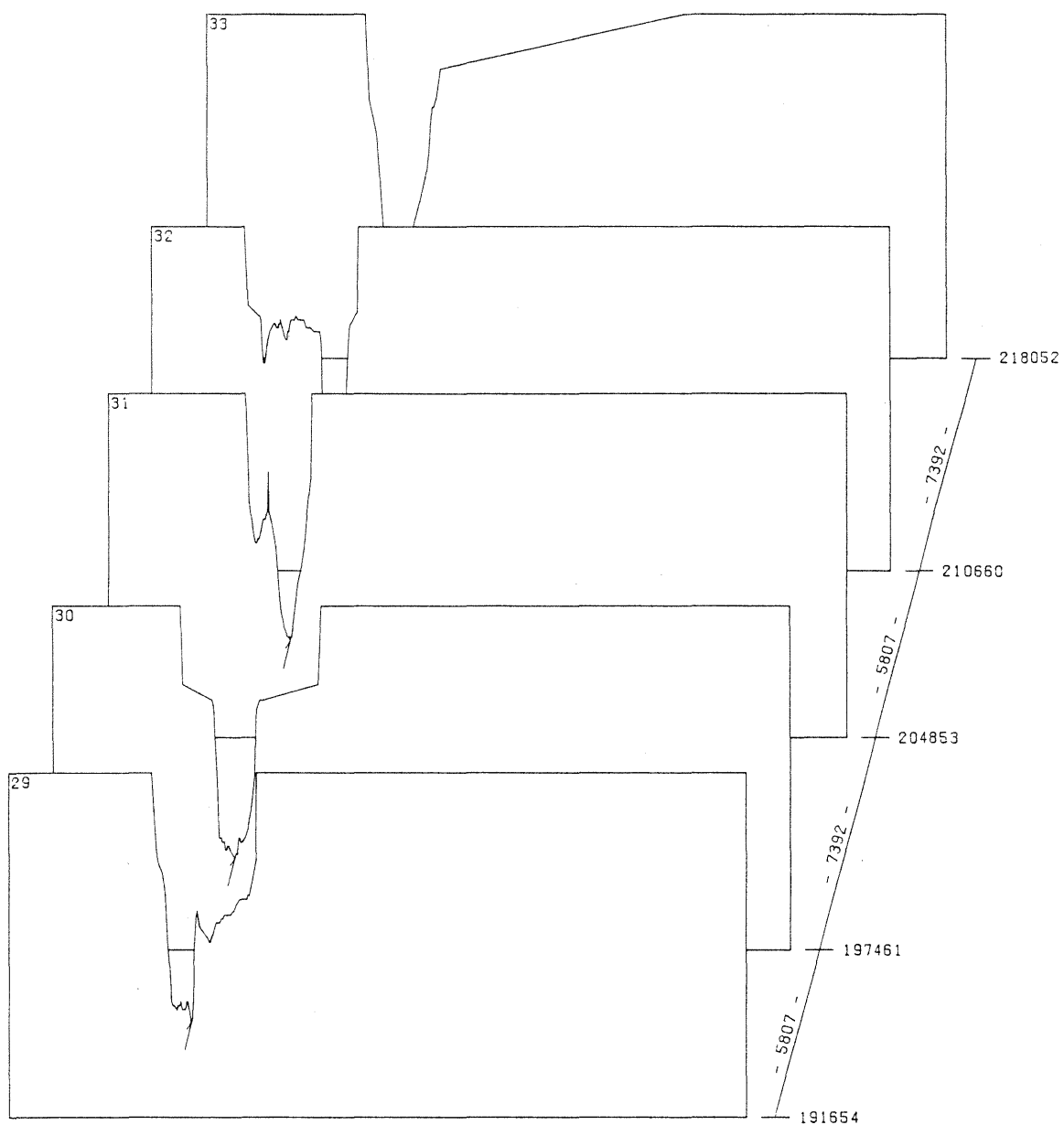


Figure 3.--Perspective plots of Hudson River cross sections 29 through 33.
(Information on scale of plots is given on page 39.)

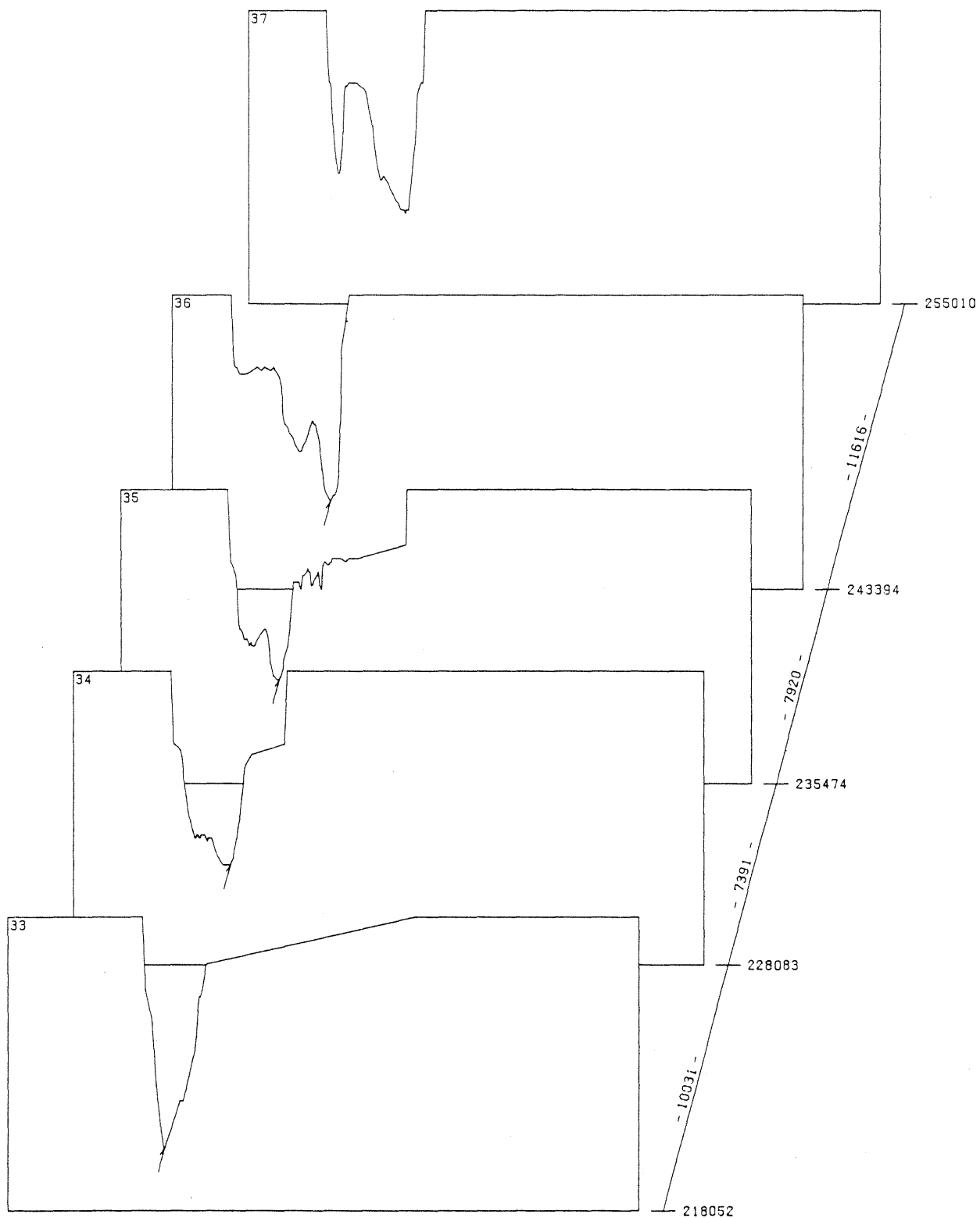


Figure 3.--Perspective plots of Hudson River cross sections 33 through 37.
(Information on scale of plots is given on page 39.)

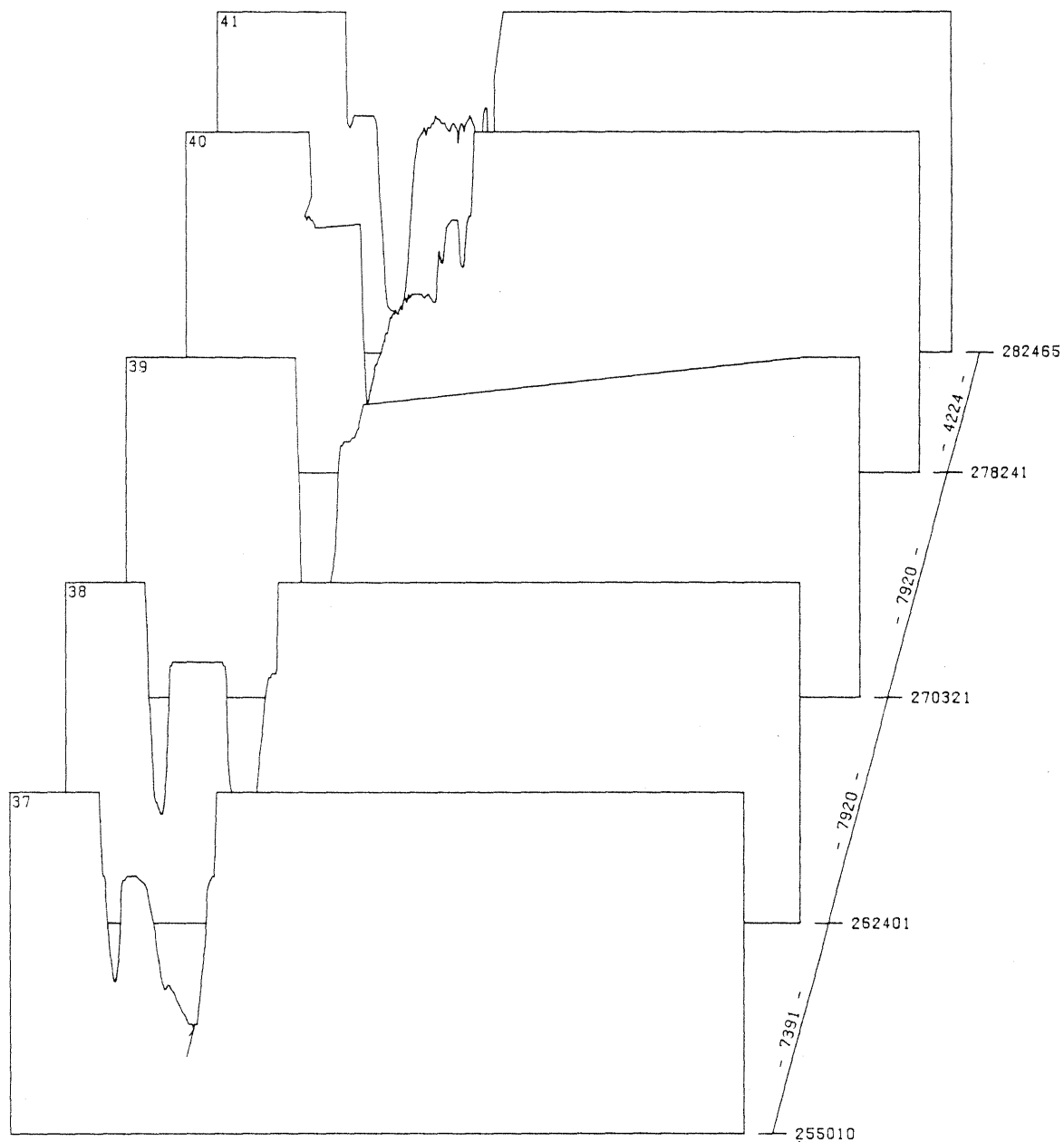


Figure 3.--Perspective plots of Hudson River cross sections 37 through 41.
(Information on scale of plots is given on page 39.)

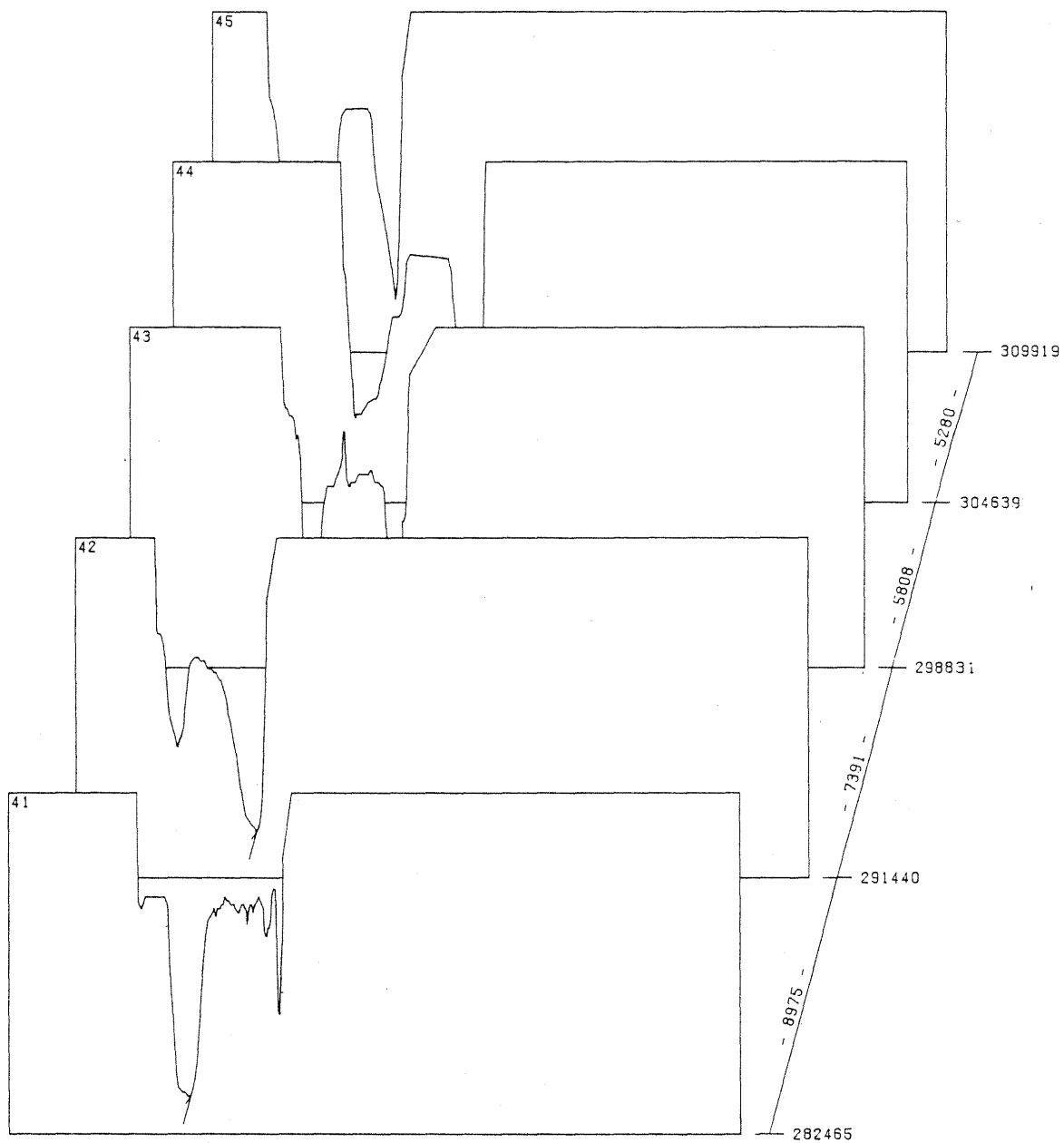


Figure 3.--Perspective plots of Hudson River cross sections 41 through 45.
(Information on scale of plots is given on page 39.)

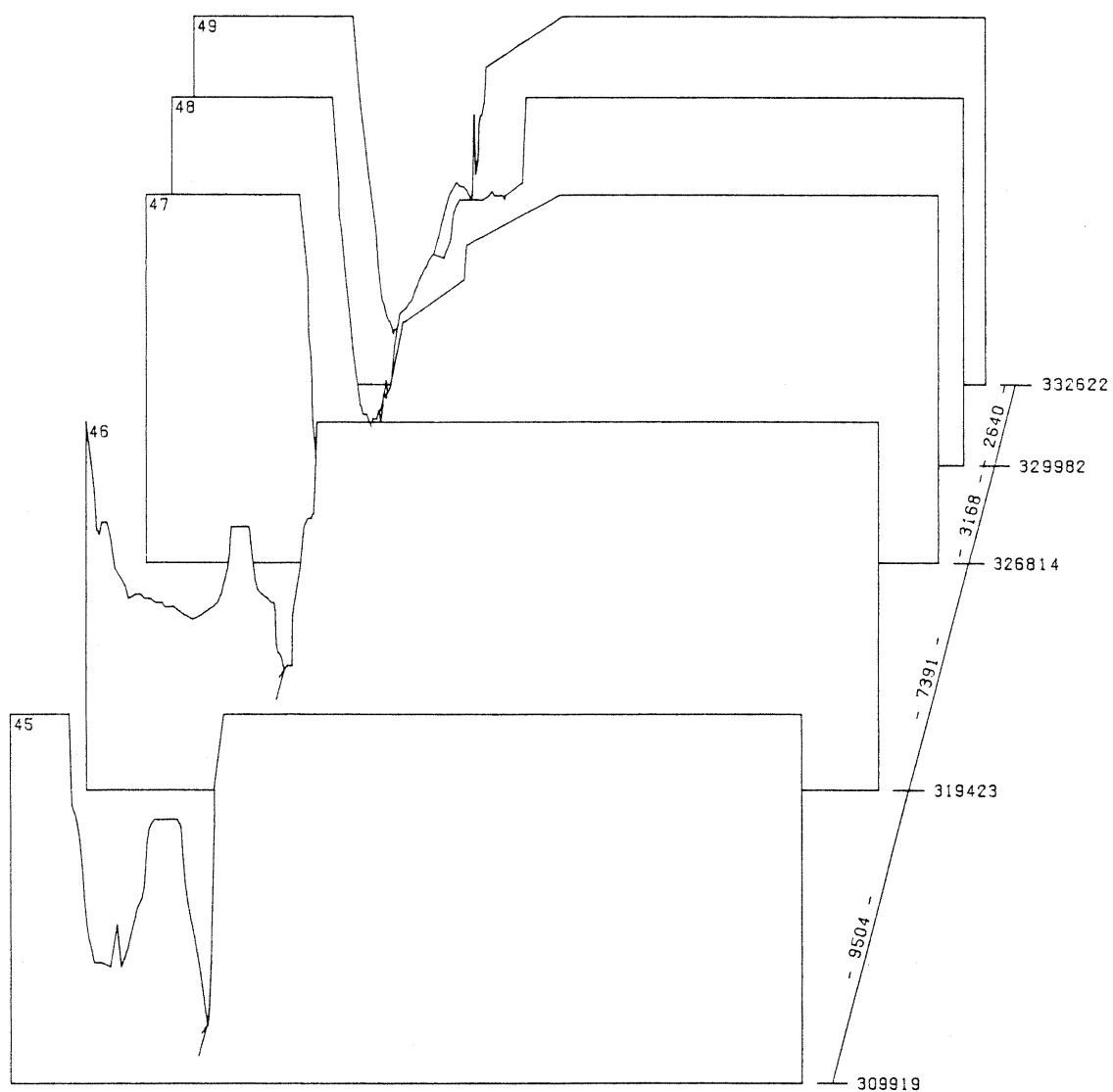


Figure 3.--Perspective plots of Hudson River cross sections 45 through 49.
(Information on scale of plots is given on page 39.)

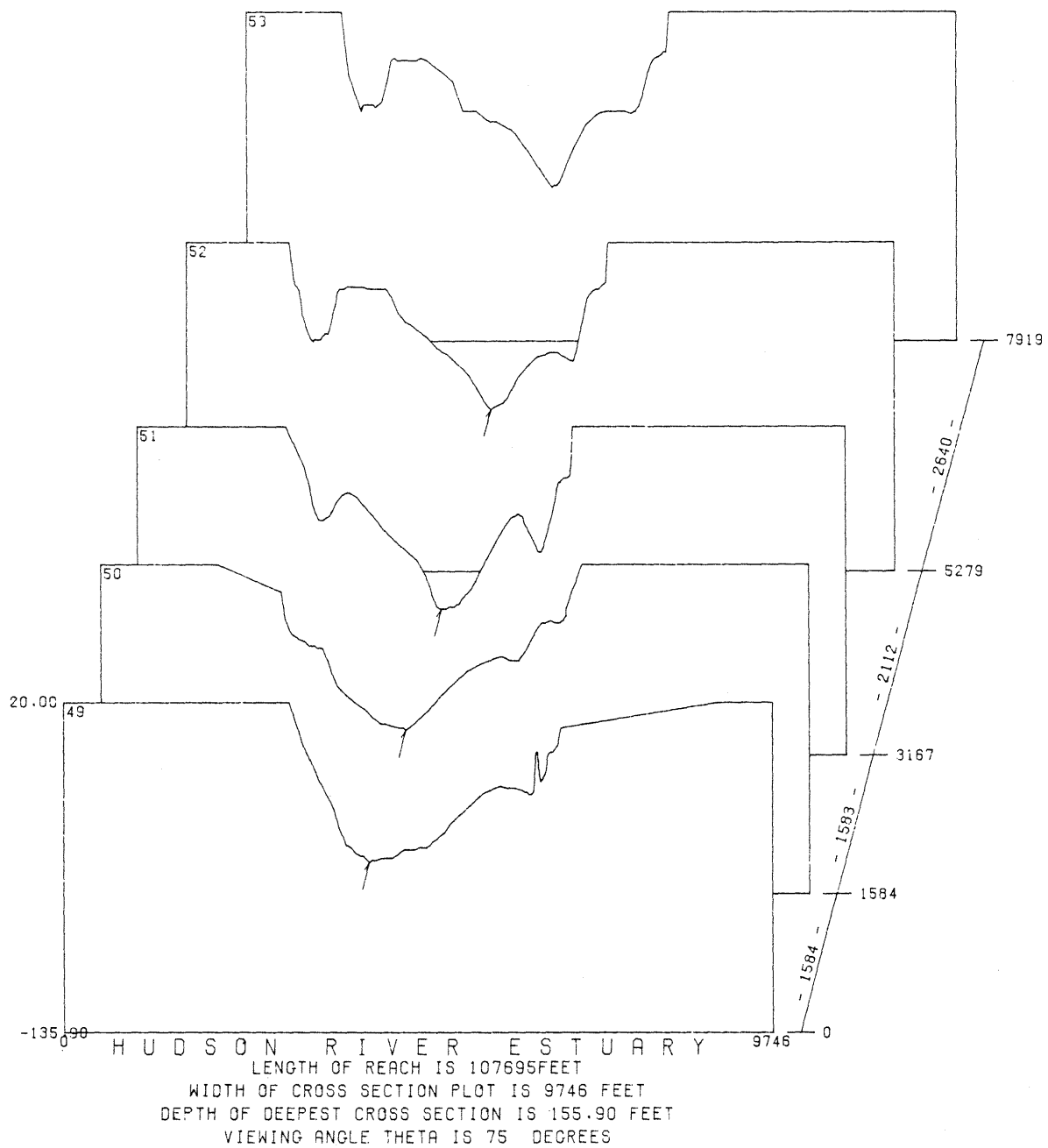


Figure 3.--Perspective plots of Hudson River cross sections 49 through 53.

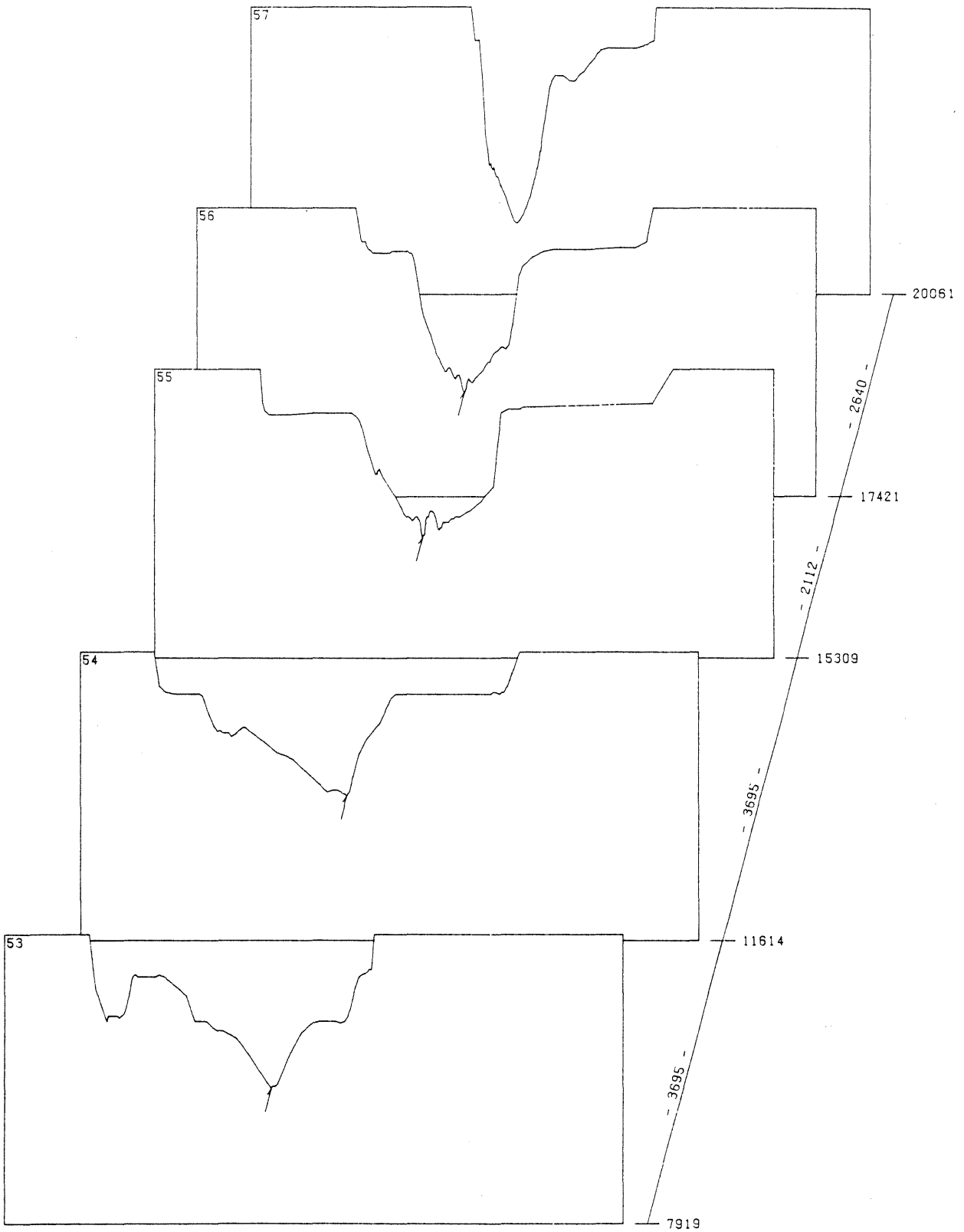


Figure 3.--Perspective plots of Hudson River cross sections 53 through 57.
 (Information on scale of plots is given on page 39.)

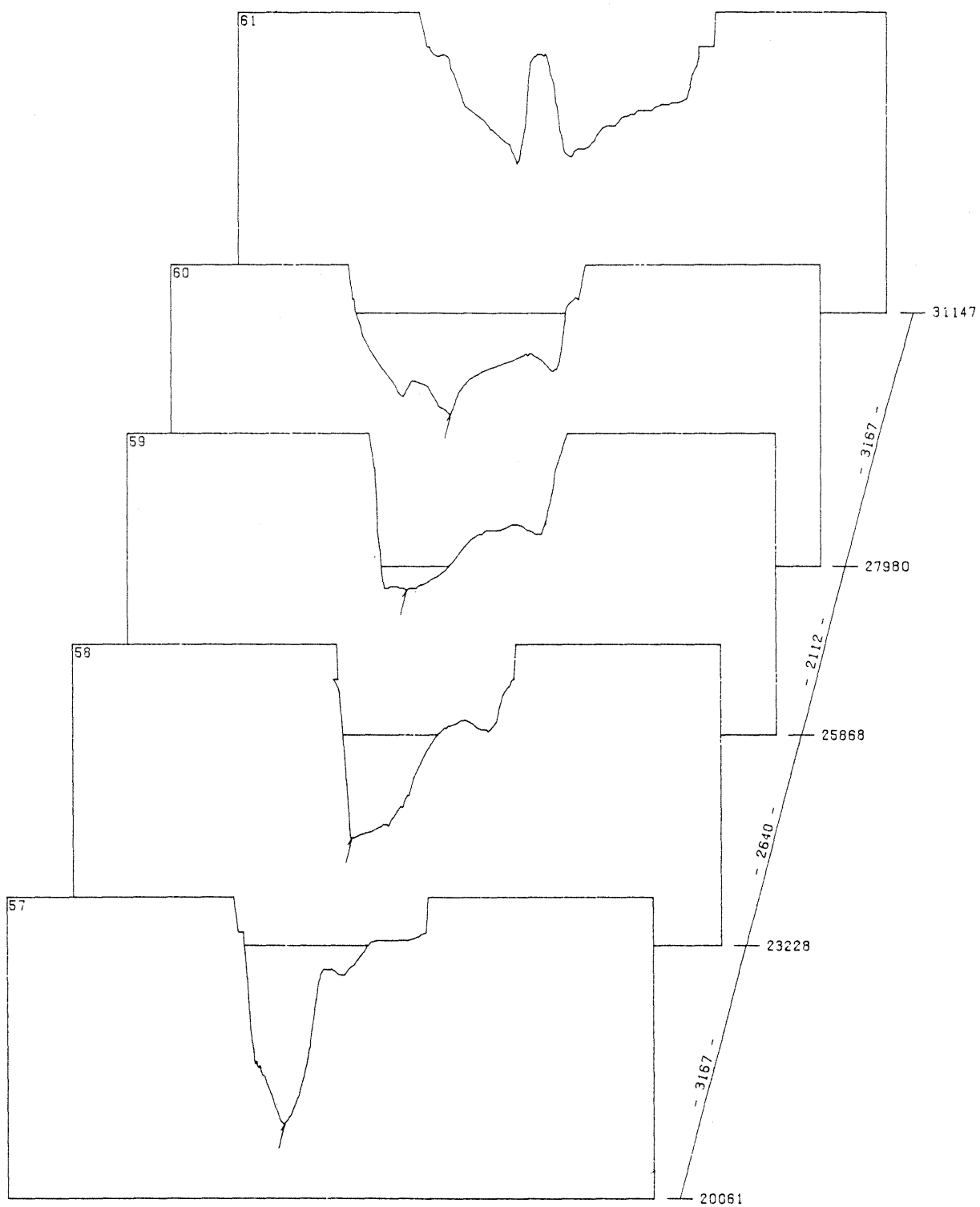


Figure 3.--Perspective plots of Hudson River cross sections 57 through 61.
 (Information on scale of plots is given on page 39.)

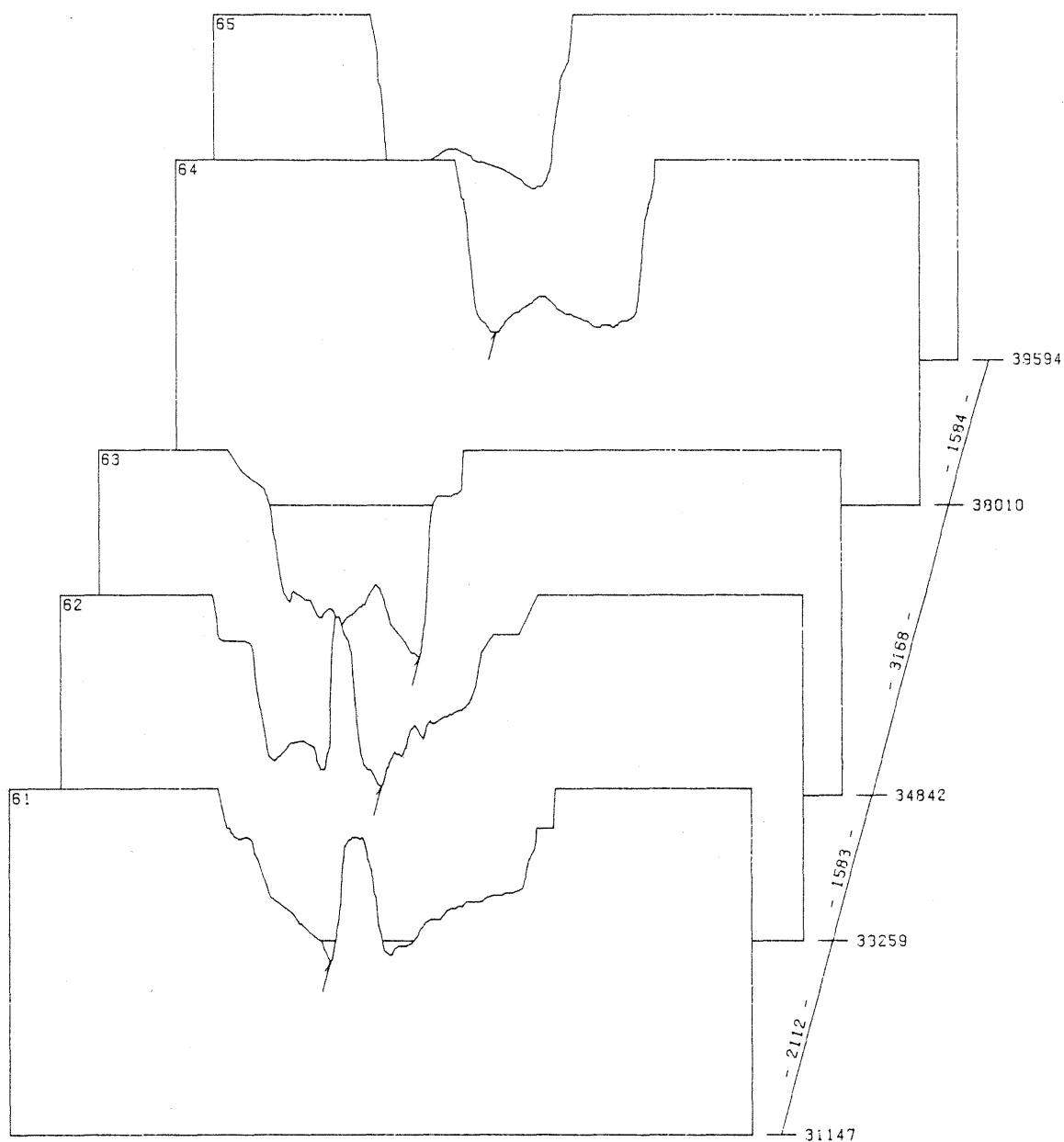


Figure 3.--Perspective plots of Hudson River cross sections 61 through 65.
(Information on scale of plots is given on page 39.)

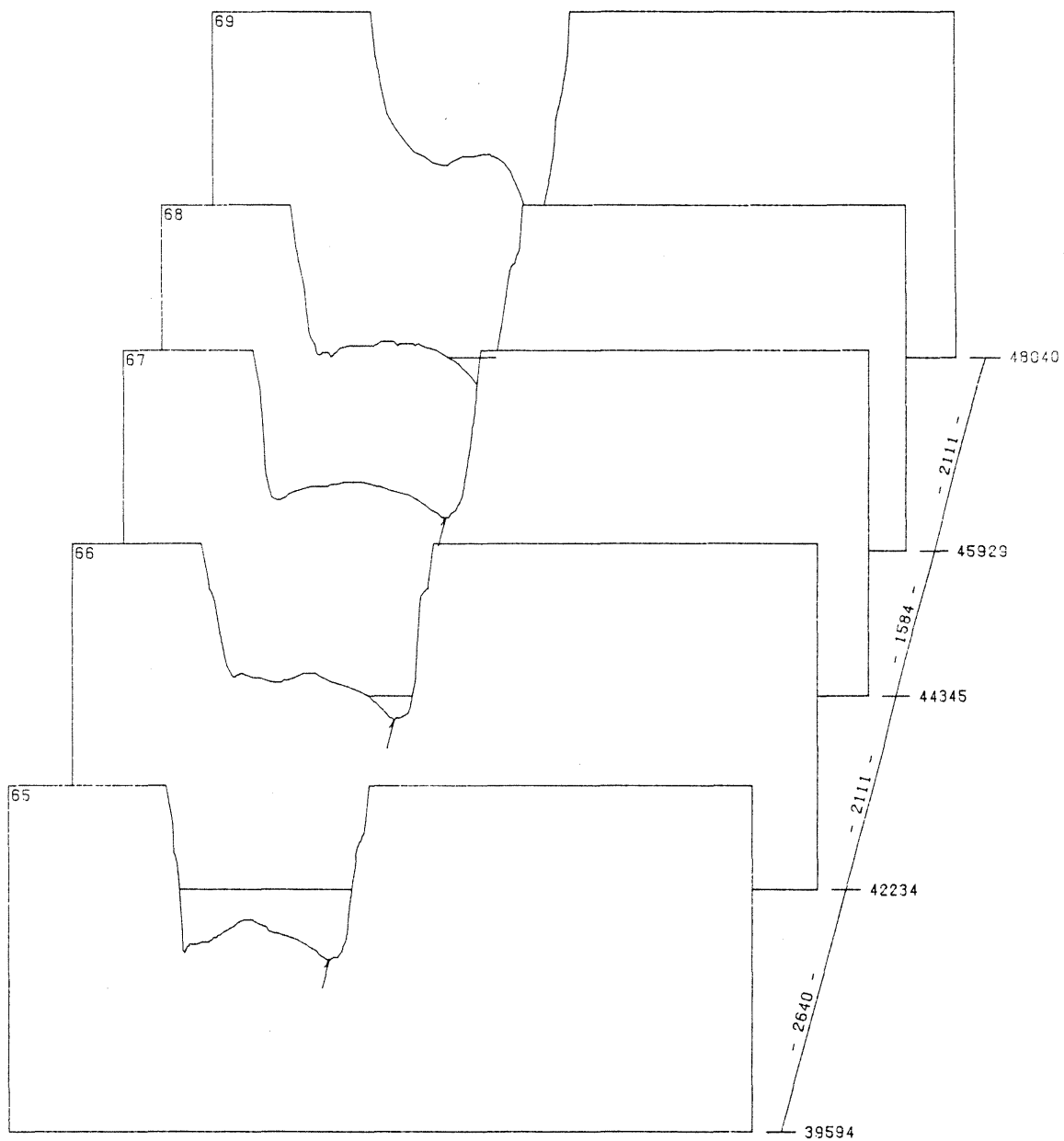


Figure 3.--Perspective plots of Hudson River cross sections 65 through 69.
(Information on scale of plots is given on page 39.)

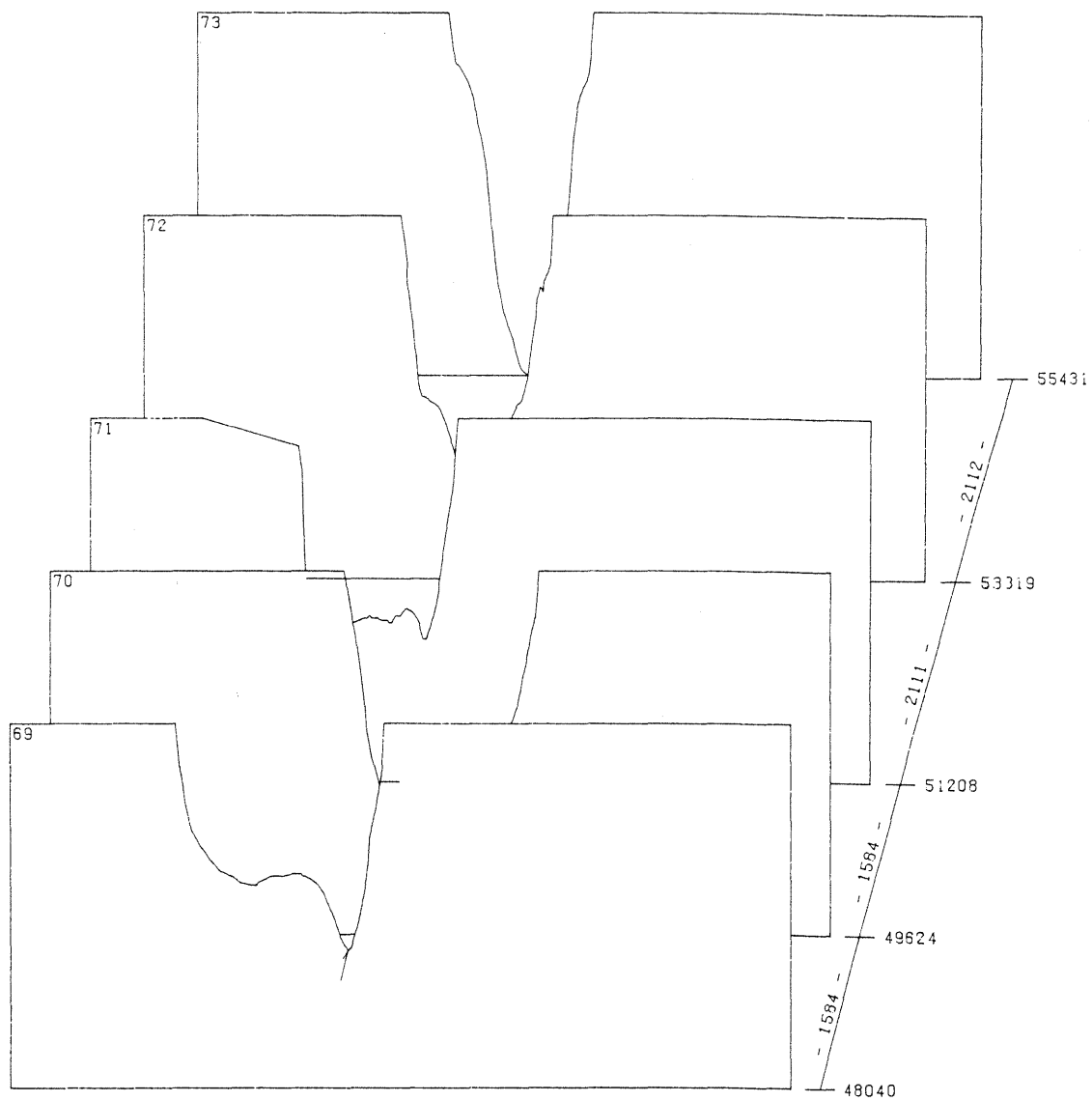


Figure 3.--Perspective plots of Hudson River cross sections 69 through 73.
 (Information on scale of plots is given on page 39.)

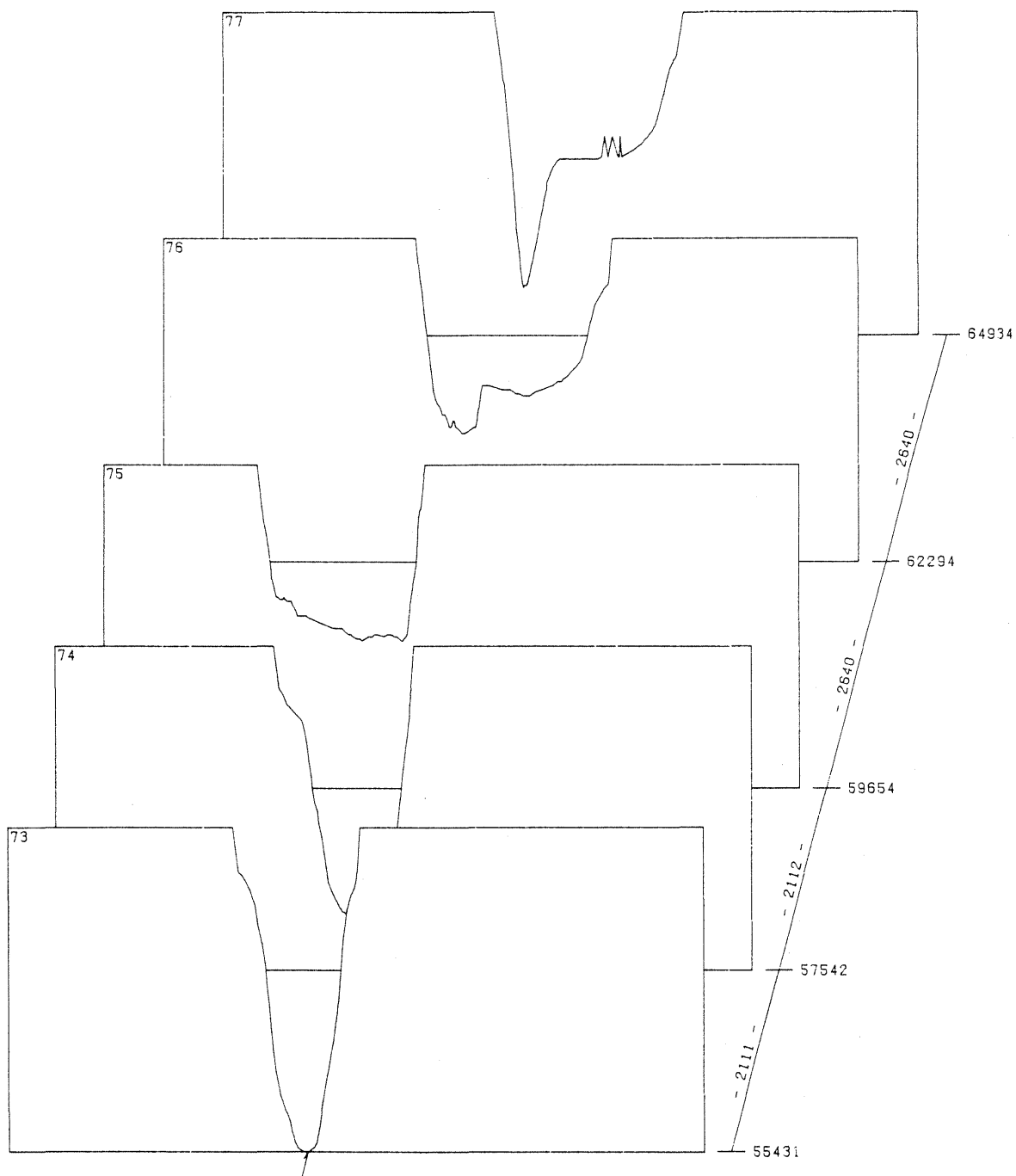


Figure 3.--Perspective plots of Hudson River cross sections 73 through 77.
 (Information on scale of plots is given on page 39.)

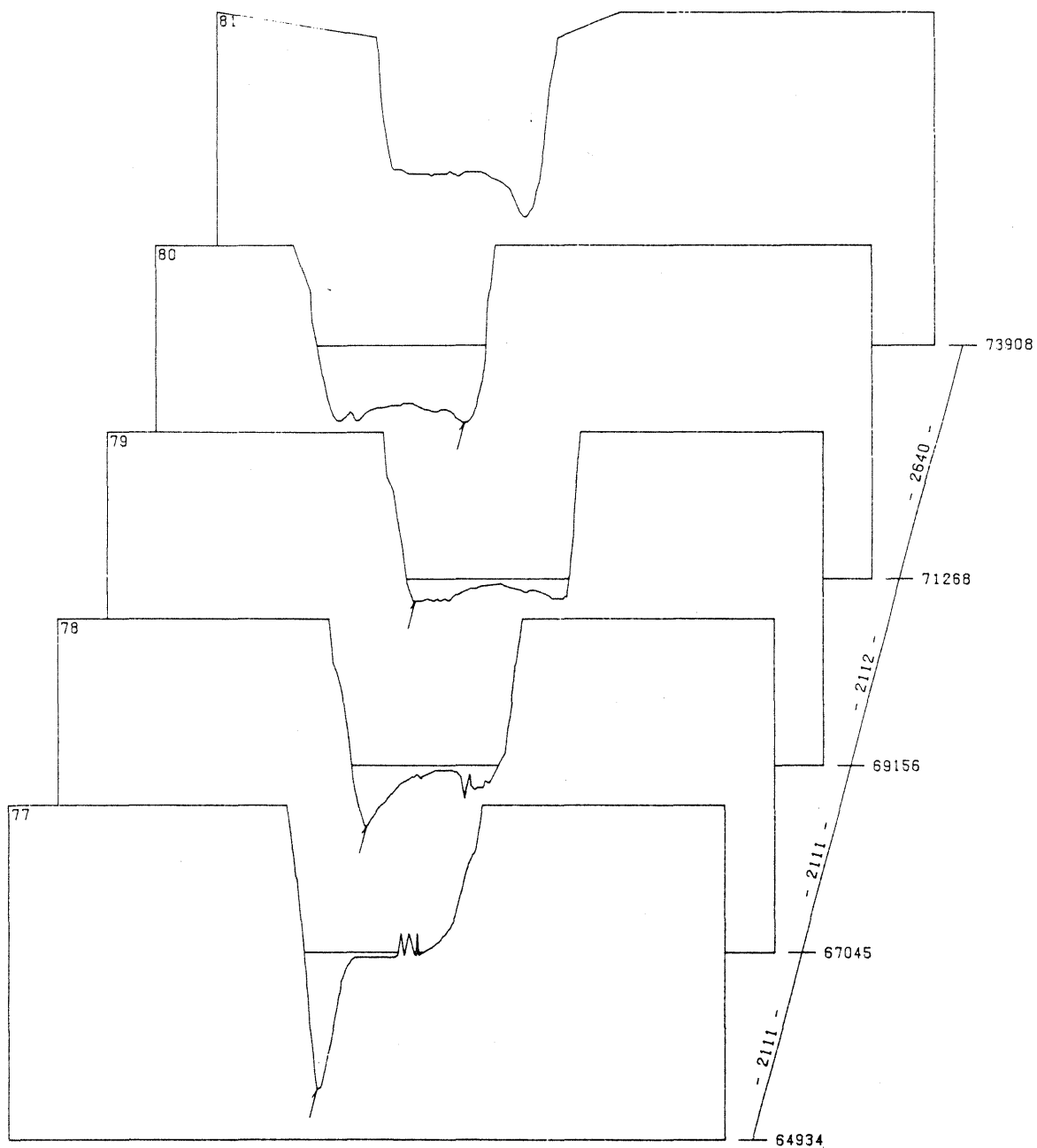


Figure 3.--Perspective plots of Hudson River cross sections 77 through 81.
(Information on scale of plots is given on page 39.)

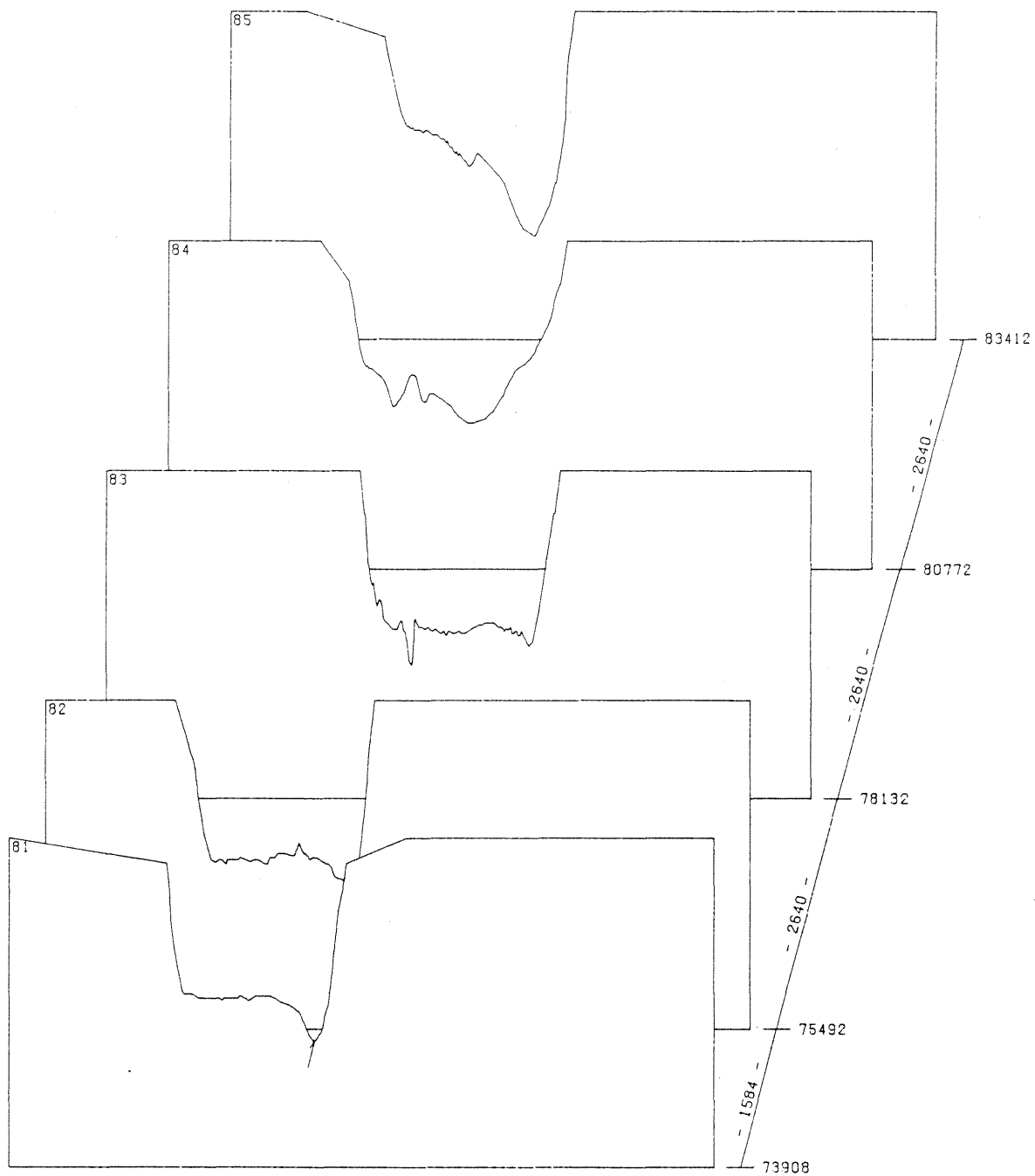


Figure 3.--Perspective plots of Hudson River cross sections 81 through 85.
 (Information on scale of plots is given on page 39.)

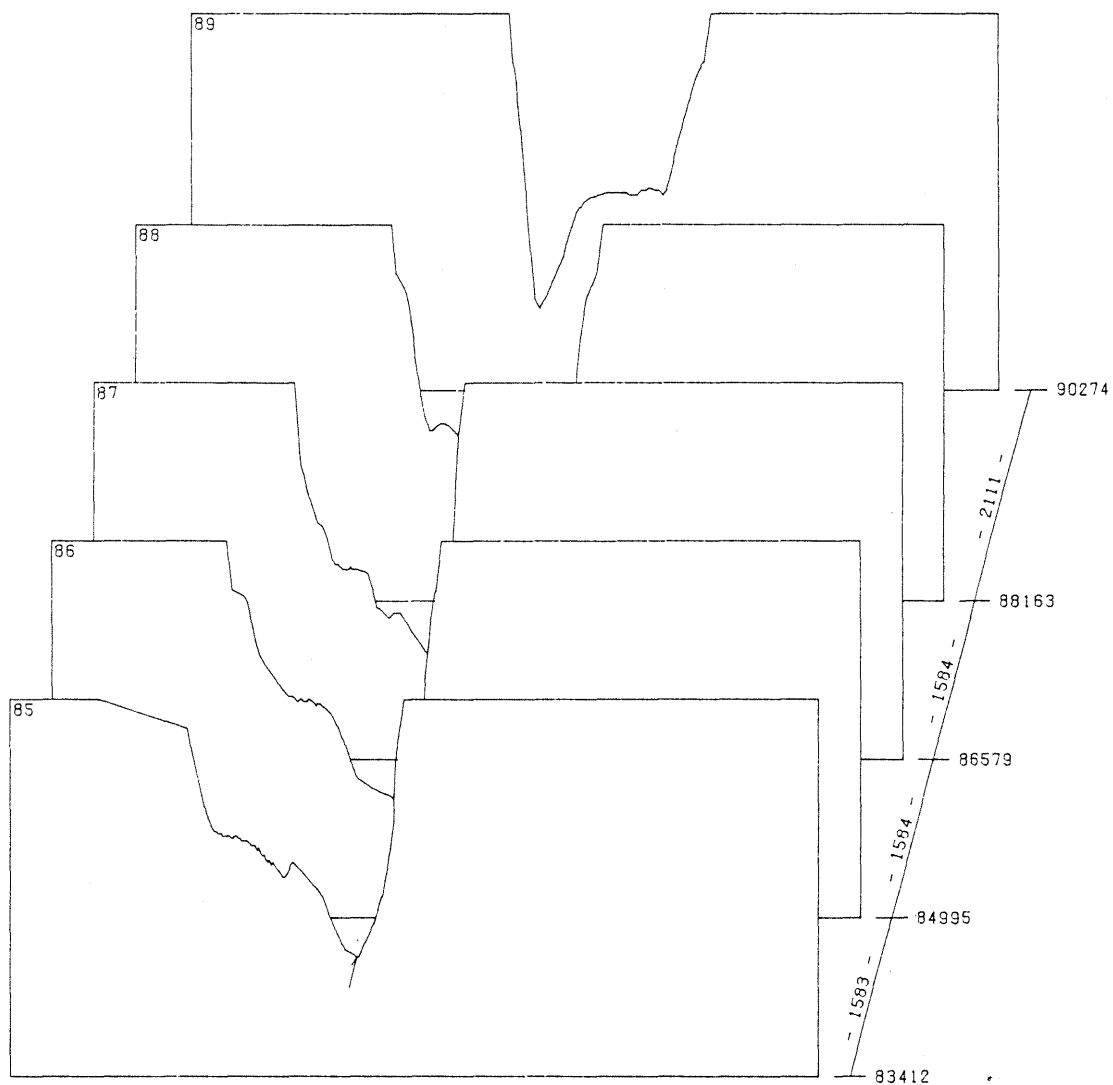


Figure 3.--Perspective plots of Hudson River cross sections 85 through 89.
(Information on scale of plots is given on page 39.)

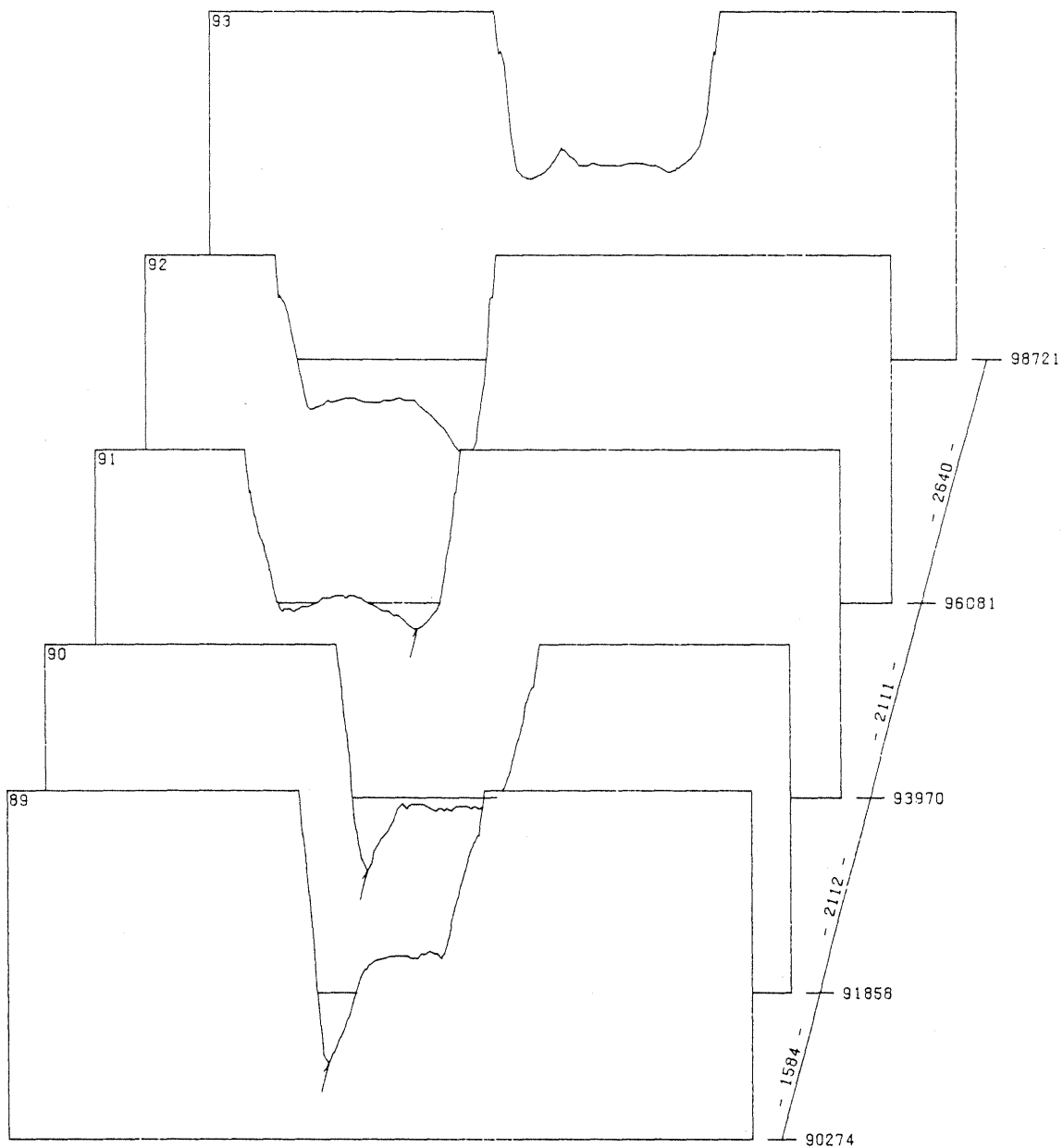


Figure 3.--Perspective plots of Hudson River cross sections 89 through 93.
 (Information on scale of plots is given on page 39.)

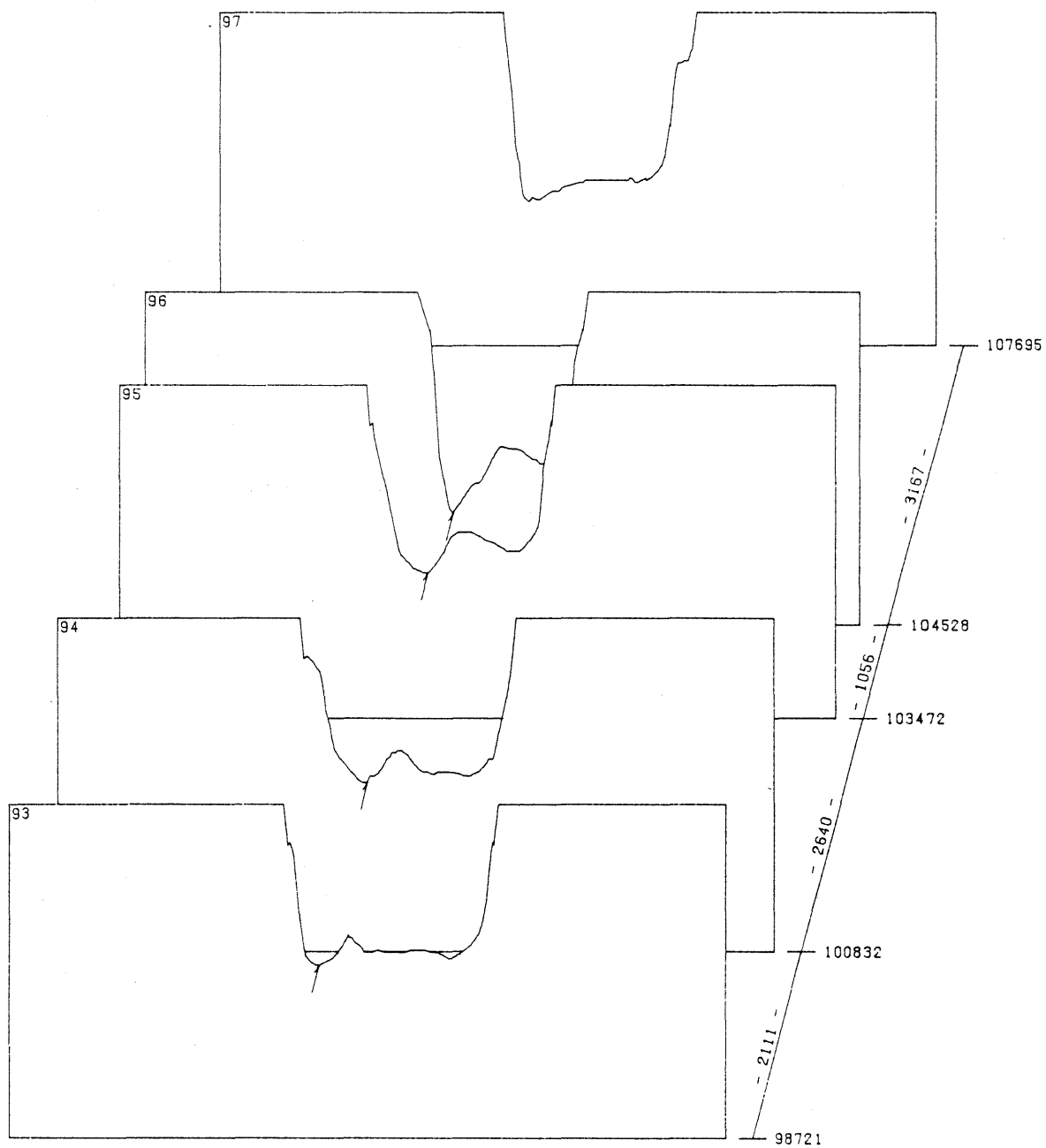


Figure 3.--Perspective plots of Hudson River cross sections 93 through 97.
(Information on scale of plots is given on page 39.)

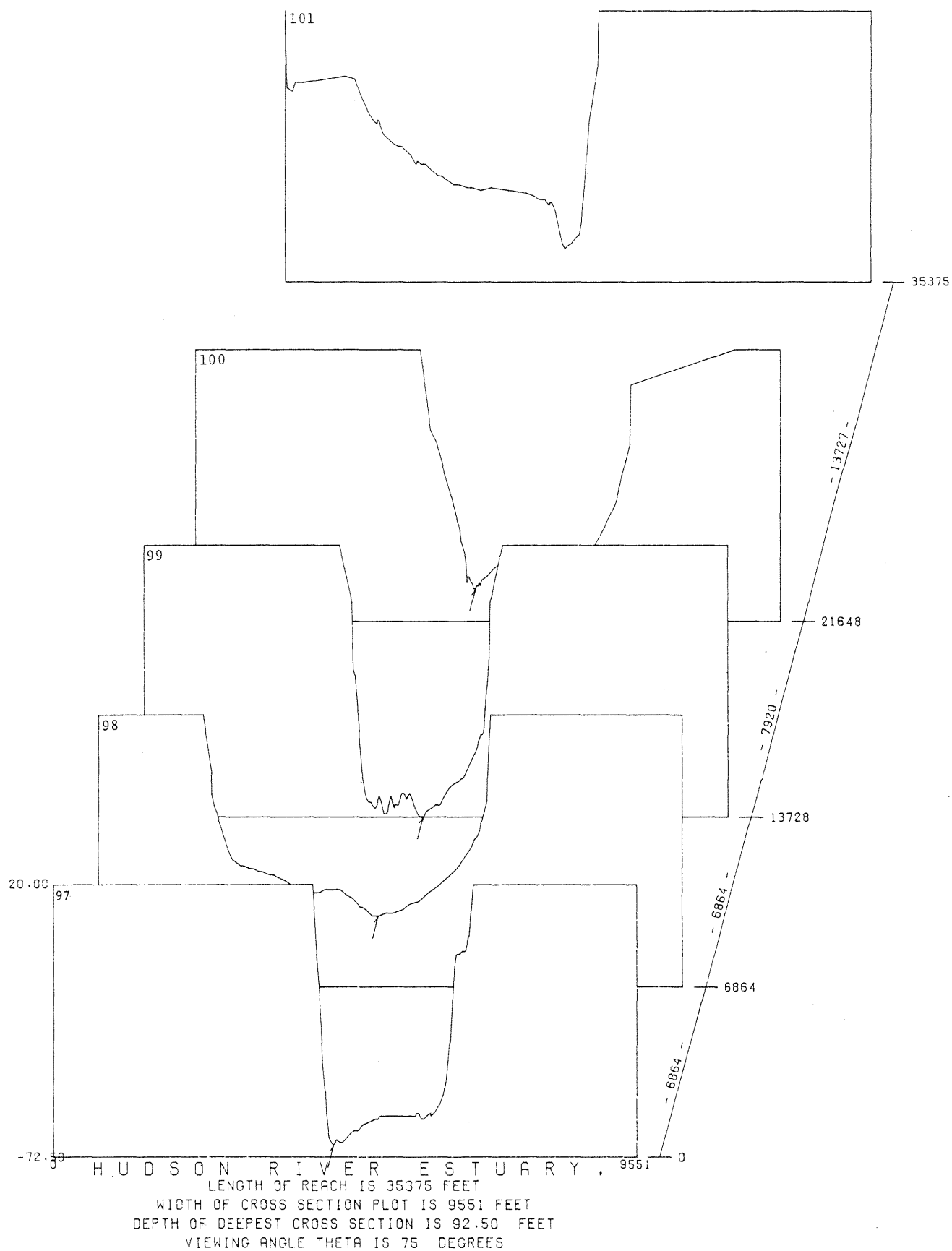


Figure 3.--Perspective plots of Hudson River cross sections 97 through 101.

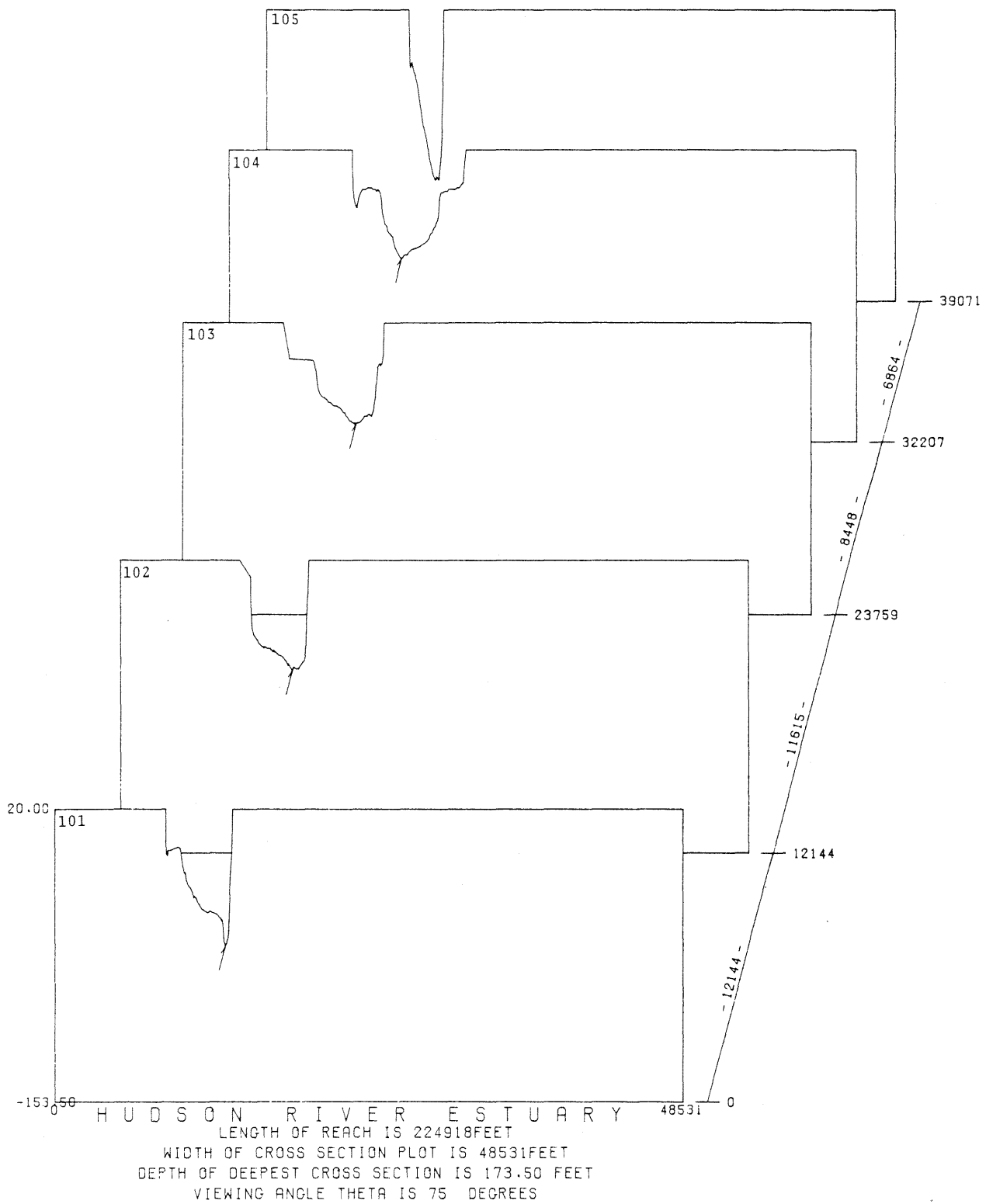


Figure 3.--Perspective plots of Hudson River cross sections 101 through 105.

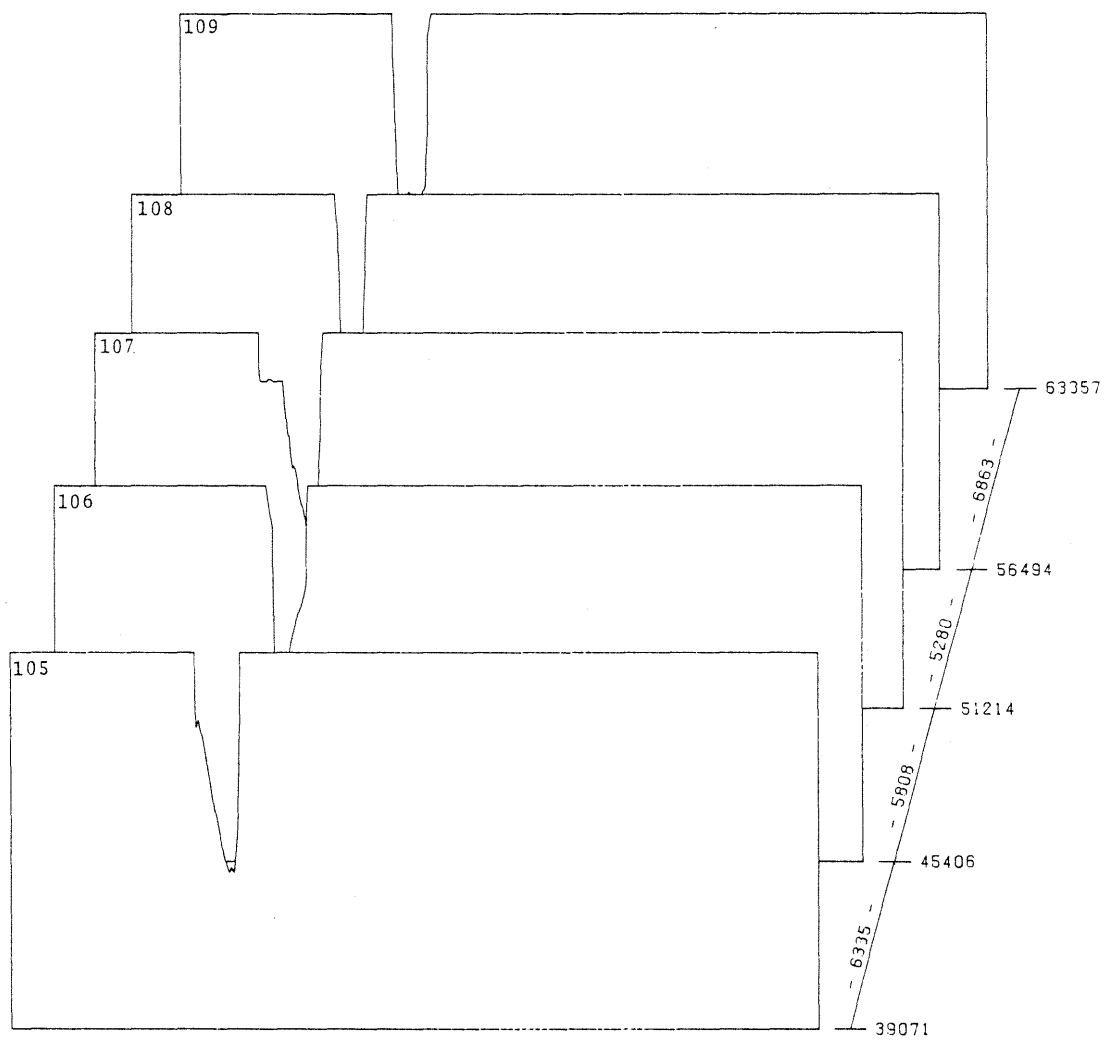


Figure 3.--Perspective plots of Hudson River cross sections 105 through 109.
(Information on scale of plots is given on page 39.)

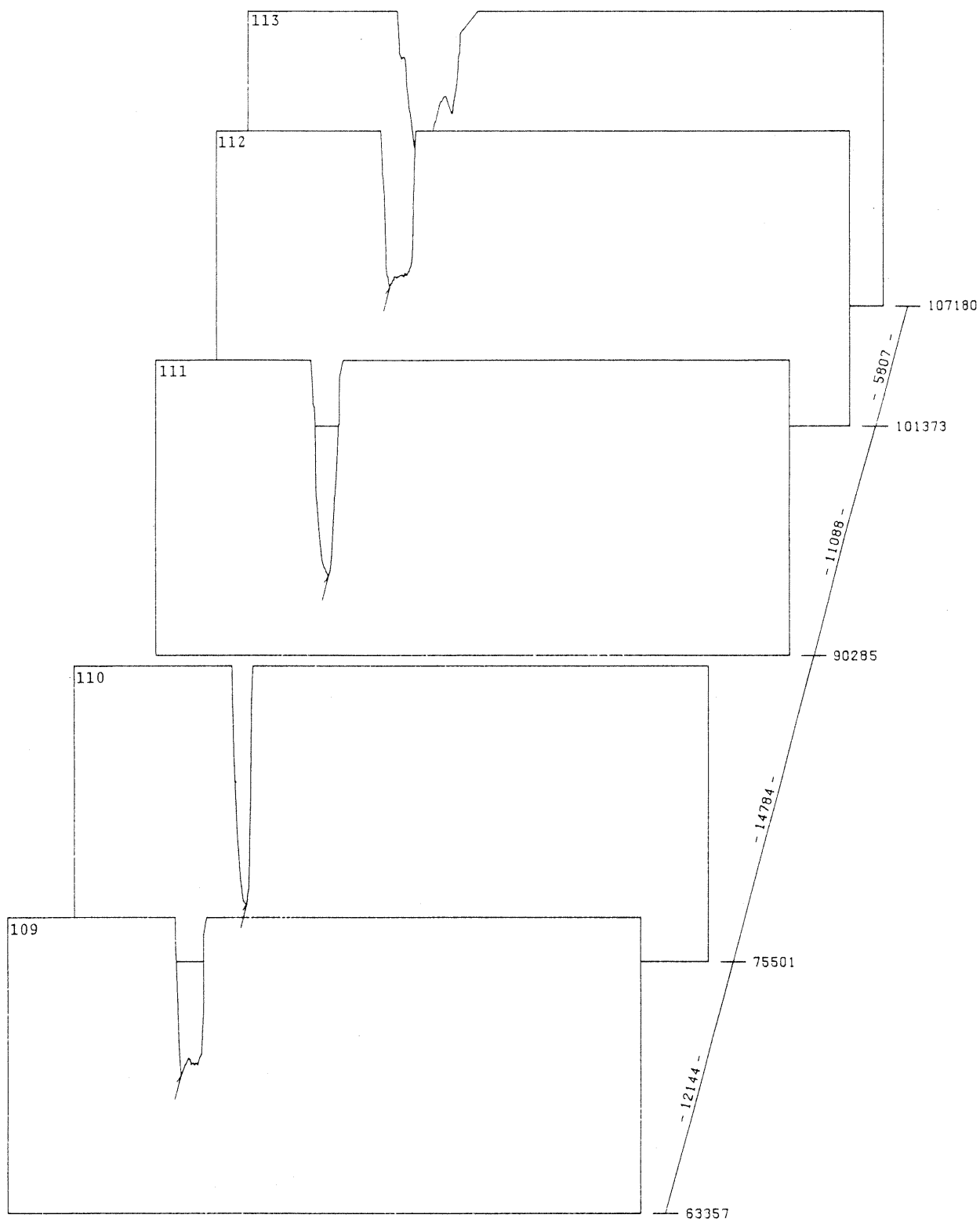


Figure 3.--Perspective plots of Hudson River cross sections 109 through 113.
(Information on scale of plots is given on page 39.)

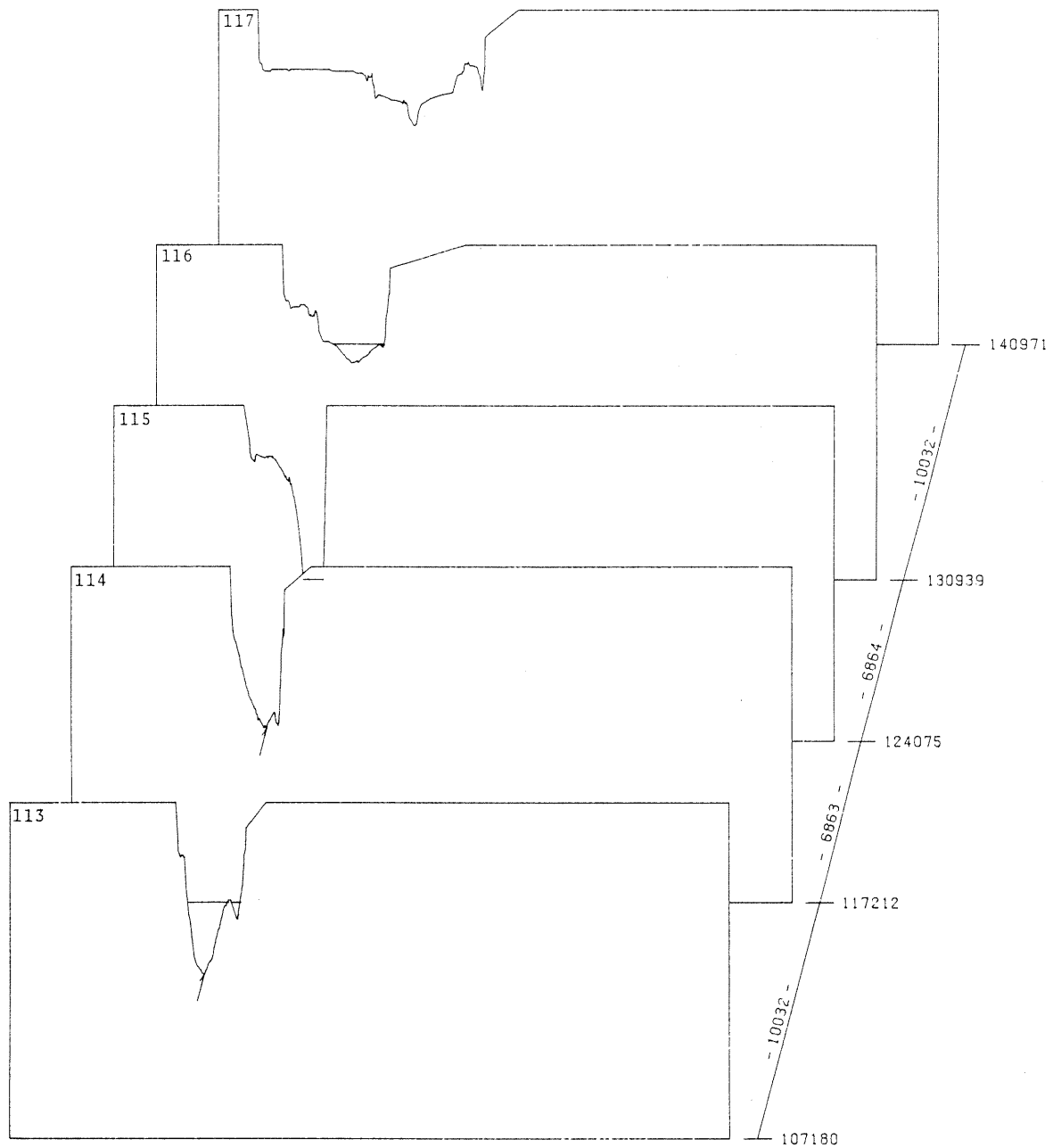


Figure 3.--Perspective plots of Hudson River cross sections 113 through 117.
 (Information on scale of plots is given on page 39.)

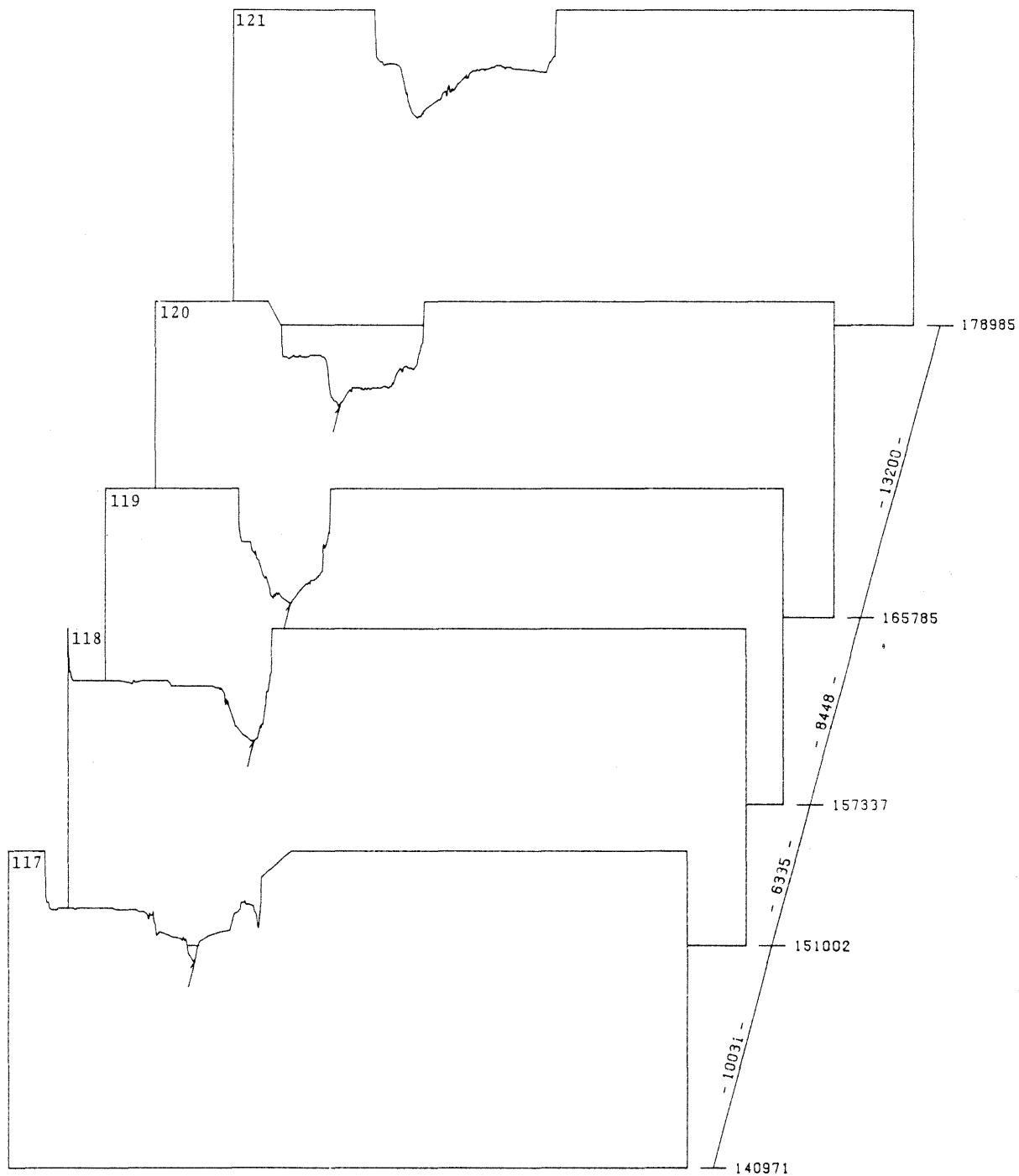


Figure 3.--Perspective plots of Hudson River cross sections 117 through 121.
(Information on scale of plots is given on page 39.)

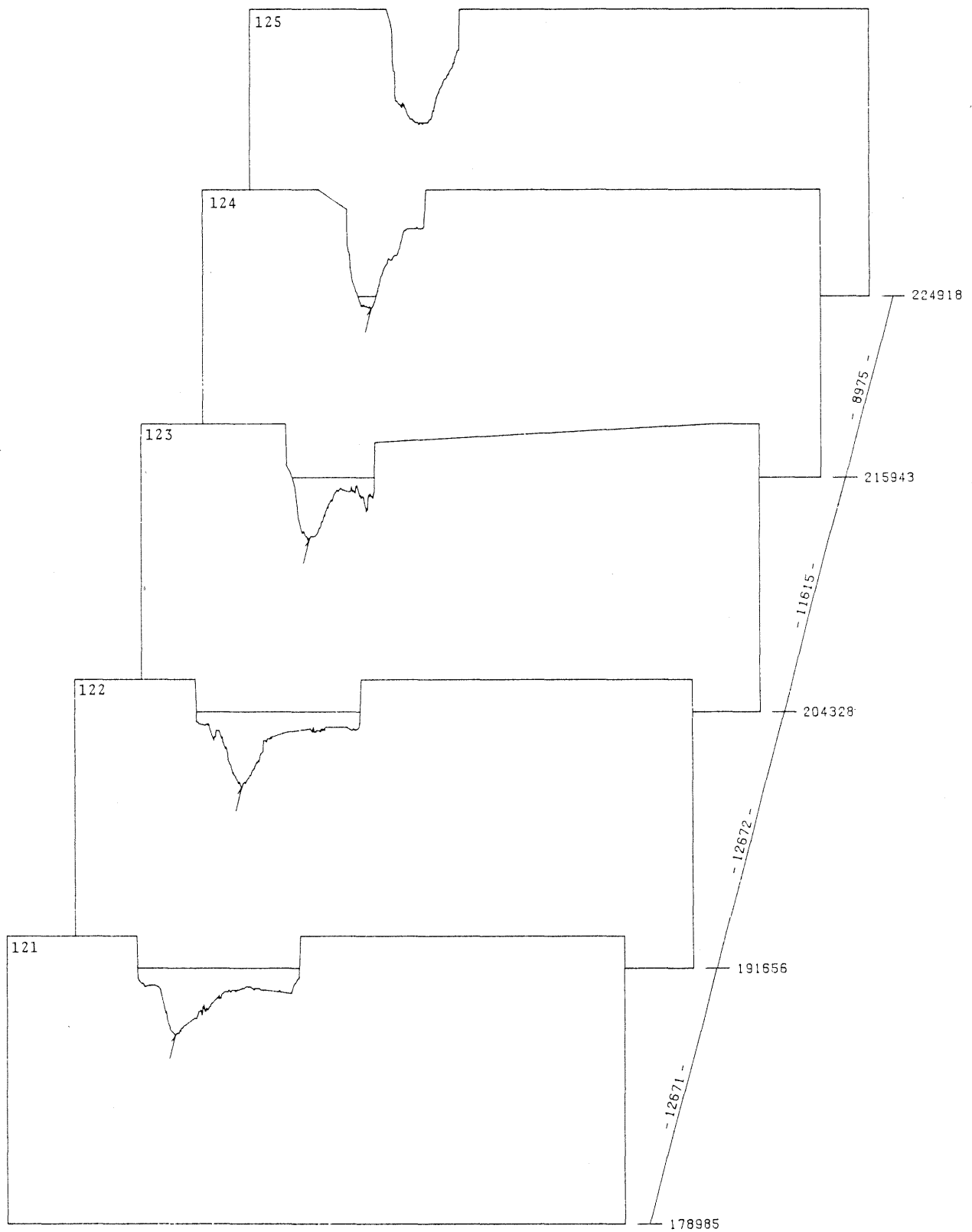


Figure 3.--Perspective plots of Hudson River cross sections 121 through 125.
(Information on scale of plots is given on page 39.)