

TIDE NOTES

<u>SITE</u>	<u>LOCATION</u>	<u>PERIOD</u>
Long Neck Point, CT 8468788	41° 02.3'N 73° 28.8'W	19 April 1995 to 13 July 1995 23 Oct 1995 to 17 Nov 1995
New Rochelle, NY 8518490	40° 53.5'N 73° 46.9'W	20 April 1995 to 13 July 1995 03 Nov 1995 to 15 Nov 1995
Willetts Point, NY 8516990	40° 53.5'N 73° 46.9'W	NOAA Station

Long Neck Point, CT

Sea Data Model TDR-3A (S/N 018) and Coastal Leasing Microtide (S/N 10302) gages were installed on 19 April 1995. The staff was installed and leveled on 24 April. The Long Neck primary gage, TDR #018, malfunctioned on 31 May and Coastal #10302 became the primary gage. A new backup gage, Coastal #10320, was installed. Both gages were removed 13 July 1995. Coastal Microtide (S/N 10357 and 10353) gages were installed on 23 October 1995. The staff was leveled on 23 October. Both gages were removed on 17 November 1995.

New Rochelle, NY

Sea Data Model TDR-3A (S/N 224) and Coastal Leasing Microtide (S/N 10321) gages were installed on 20 April 1995. The staff was installed on 20 April and leveled on 25 April. The primary gage, TDR #224, failed on 01 May. The backup gage, COASTAL #10321, was connected to the telemetry system as the new primary gage. The backup gage has a complete record of the deployment and no data were lost. TDR #510 was installed as the new secondary gage on 03 May. Both gages were removed 13 July 1995. Coastal Microtide (S/N 10307 and 10320) gages were installed on 3 November 1995 and the staff was leveled. Both gages and staff were removed 17 November 1995.

Tide and Water Level Correction

The reference stations for H-10612 were Willetts Point, NY (851-6990) and Bridgeport, CT (846-7150).

Soundings for field sheets were corrected using observed water level data from NOAA Station Willetts Point, NY (851-6990). Data were acquired by cellular phone modem using the NOAA REALDATA software.

Smooth sheet soundings were corrected for water level through application of observed data from the Long Neck Point, CT (846-8799), the New Rochelle, NY (851-8490) and the Willetts Point, NY (851-6990) stations. A staff MLLW datum was computed at each station by simultaneous comparison with Willetts Point, NY (851-6990) and with Bridgeport, CT (846-7150) using the NOAA Form 248 method prescribed by Marmer (Tidal Datum Planes, Spec. Pub. 135, U.S. Dept. of Commerce). The simultaneous comparison computations are included in the Phase IIA Summary Report* Tides.

* Filed with the hydrographic data.

The boundaries of tide zones used are listed in the Phase IIA Summary Report - Tides. Gage readings were recorded in relation to staff zero; therefore, the MLLW datum height was subtracted from gage readings before applying the time and ratio correctors.

Zoning correctors applied to the observed gage values were:

Station	Zone	Correctors			Staff MLLW Datum
		Time (h min)	Ratio	Height	
Long Neck Point	A2	+00 09	*1.01	0.496	0.496
New Rochelle	A3	-00 03	*0.99	0.983	0.983
Willets Point. NOAA	A8	-00 09	*1.01	0.000	0.000
New Rochelle	A9	00 00	*1.00	0.983	0.983

All data for project water level gages are reported in the Phase IIA Summary Report - Tides.

Table E-1. Abstract of Times of Hydrography

1995/165 04:23:44.88 to 1995/165 04:47:50.65
1995/165 04:50:51.89 to 1995/165 05:13:05.98
1995/165 05:21:13.83 to 1995/165 05:44:32.50
1995/165 05:48:33.57 to 1995/165 06:08:23.09
1995/165 06:12:17.94 to 1995/165 06:35:32.76
1995/170 00:38:00.04 to 1995/170 00:46:00.85
1995/170 00:49:14.82 to 1995/170 01:00:56.41
1995/170 01:12:00.02 to 1995/170 01:22:50.88
1995/170 01:25:21.59 to 1995/170 01:42:54.84
1995/175 22:32:33.14 to 1995/175 22:40:41.96
1995/175 22:43:05.34 to 1995/175 22:50:00.98
1995/175 22:52:03.92 to 1995/175 23:02:13.98
1995/175 23:04:00.03 to 1995/175 23:10:29.90
1995/175 23:16:09.92 to 1995/175 23:27:25.96
1995/175 23:32:50.06 to 1995/175 23:40:28.95
1995/175 23:42:56.78 to 1995/175 23:52:54.02
1995/165 06:48:52.86 to 1995/165 07:13:52.84
1995/165 07:22:16.10 to 1995/165 07:53:24.03
1995/165 08:07:49.30 to 1995/165 08:32:44.55
1995/165 08:50:19.43 to 1995/165 09:19:44.85
1995/165 09:25:12.73 to 1995/165 09:47:51.11
1995/165 09:55:10.67 to 1995/165 10:28:47.32
1995/165 10:35:21.85 to 1995/165 10:58:31.34
1995/165 12:02:27.41 to 1995/165 12:14:46.33
1995/165 12:19:36.58 to 1995/165 12:40:16.16
1995/165 12:44:26.72 to 1995/165 13:02:43.51
1995/165 13:06:19.99 to 1995/165 13:24:55.45
1995/165 13:29:21.11 to 1995/165 13:52:21.71
1995/165 14:08:22.30 to 1995/165 14:28:47.30
1995/165 14:36:43.07 to 1995/165 15:03:03.28
1995/165 15:08:42.41 to 1995/165 15:20:34.37
1995/165 15:27:47.12 to 1995/165 15:38:08.90
1995/165 15:46:17.76 to 1995/165 16:08:13.90
1995/165 16:15:47.38 to 1995/165 16:36:36.34
1995/165 16:41:17.49 to 1995/165 17:04:15.10
1995/165 17:09:22.24 to 1995/165 17:14:39.82
1995/165 17:30:42.04 to 1995/165 17:44:15.91
1995/166 01:43:26.02 to 1995/166 02:19:00.28
1995/166 02:32:06.75 to 1995/166 02:55:44.38
1995/166 03:04:37.26 to 1995/166 03:31:23.61
1995/166 03:37:47.25 to 1995/166 04:03:20.05
1995/166 04:10:11.17 to 1995/166 04:36:32.63
1995/166 04:43:15.16 to 1995/166 04:43:58.78
1995/166 04:51:41.74 to 1995/166 05:14:45.90
1995/166 05:19:53.92 to 1995/166 05:41:29.20
1995/166 05:46:52.34 to 1995/166 06:08:35.62
1995/166 06:15:46.29 to 1995/166 06:36:46.02
1995/166 06:42:46.48 to 1995/166 07:05:54.49
1995/166 07:12:50.05 to 1995/166 07:35:18.07
1995/166 07:41:16.75 to 1995/166 08:04:28.02
1995/166 08:44:30.23 to 1995/166 09:05:37.67

Table E-1. Abstract of Times of Hydrography (continued)

1995/166 09:10:39.17 to 1995/166 09:32:27.41
1995/166 09:38:16.40 to 1995/166 10:00:06.19
1995/166 10:25:54.62 to 1995/166 10:47:03.53
1995/166 10:52:06.52 to 1995/166 11:14:31.87
1995/166 11:32:08.22 to 1995/166 11:54:10.68
1995/166 11:59:46.33 to 1995/166 12:21:37.32
1995/166 12:27:29.78 to 1995/166 12:51:43.55
1995/166 12:55:56.18 to 1995/166 13:19:02.41
1995/166 13:25:00.20 to 1995/166 13:47:57.84
1995/166 13:52:27.94 to 1995/166 14:12:39.98
1995/166 22:14:32.21 to 1995/166 22:35:34.83
1995/166 22:42:13.21 to 1995/166 22:54:09.92
1995/166 23:12:25.97 to 1995/166 23:36:40.04
1995/166 23:42:20.65 to 1995/166 23:59:55.89
1995/166 23:59:55.97 to 1995/167 00:07:15.31
1995/167 00:19:08.31 to 1995/167 00:42:07.72
1995/167 00:47:50.41 to 1995/167 01:13:59.13
1995/167 01:20:00.18 to 1995/167 01:44:38.84
1995/167 01:51:28.78 to 1995/167 02:18:48.89
1995/167 02:24:18.25 to 1995/167 02:34:27.12
1995/167 02:43:34.22 to 1995/167 03:02:52.93
1995/167 03:10:11.30 to 1995/167 03:35:52.99
1995/167 03:46:38.51 to 1995/167 04:12:59.97
1995/167 04:18:48.58 to 1995/167 04:45:31.96
1995/167 04:51:01.32 to 1995/167 05:16:09.90
1995/167 05:22:58.35 to 1995/167 05:46:46.28
1995/167 05:54:25.17 to 1995/167 06:19:03.83
1995/167 06:24:52.44 to 1995/167 06:49:04.07
1995/167 06:56:00.00 to 1995/167 07:21:10.95
1995/167 07:26:18.68 to 1995/167 07:55:47.67
1995/167 08:00:52.43 to 1995/167 08:26:00.94
1995/167 08:33:59.98 to 1995/167 09:03:56.51
1995/167 09:40:46.17 to 1995/167 10:09:14.42
1995/167 10:16:41.09 to 1995/167 10:46:43.25
1995/167 10:54:08.15 to 1995/167 11:18:09.77
1995/167 11:36:37.67 to 1995/167 12:06:18.62
1995/167 12:27:37.75 to 1995/167 12:35:45.08
1995/167 12:40:07.25 to 1995/167 12:41:51.93
1995/167 12:45:05.38 to 1995/167 12:47:05.06
1995/167 13:19:39.77 to 1995/167 13:48:41.22
1995/167 21:34:56.18 to 1995/167 21:50:41.59
1995/167 21:54:13.33 to 1995/167 22:10:35.48
1995/167 22:24:21.05 to 1995/167 22:35:14.06
1995/167 22:38:58.84 to 1995/167 22:51:37.02
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1995/167 23:03:34.17 to 1995/167 23:07:13.17
1995/167 23:10:57.65 to 1995/167 23:26:33.21
1995/167 23:29:19.41 to 1995/167 23:40:22.19
1995/167 23:44:52.59 to 1995/167 23:58:43.06
1995/168 00:04:20.71 to 1995/168 00:17:41.55
1995/168 00:31:03.12 to 1995/168 00:44:33.15

Table E-1. Abstract of Times of Hydrography (continued)

1995/168 00:50:52.94 to 1995/168 00:53:37.36
1995/168 01:00:29.07 to 1995/168 01:14:47.38
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1995/168 01:36:56.29 to 1995/168 01:45:11.69
1995/168 01:56:46.03 to 1995/168 02:02:09.90
1995/168 02:06:59.56 to 1995/168 02:09:56.50
1995/168 02:42:20.49 to 1995/168 03:09:03.20
1995/168 03:14:24.26 to 1995/168 03:38:08.12
1995/168 03:46:15.08 to 1995/168 04:10:33.59
1995/168 04:15:36.28 to 1995/168 04:40:02.50
1995/168 05:06:45.44 to 1995/168 05:30:03.51
1995/168 05:34:20.88 to 1995/168 05:56:31.71
1995/168 06:01:39.14 to 1995/168 06:31:42.49
1995/168 06:41:39.66 to 1995/168 06:50:16.39
1995/168 06:54:16.28 to 1995/168 07:01:47.55
1995/168 07:09:35.84 to 1995/168 07:20:04.71
1995/168 07:23:53.35 to 1995/168 07:30:27.73
1995/168 07:38:44.76 to 1995/168 07:47:54.38
1995/168 07:50:35.17 to 1995/168 07:58:10.87
1995/168 08:17:25.29 to 1995/168 08:49:30.69
1995/168 09:01:17.77 to 1995/168 09:33:03.92
1995/168 09:55:12.23 to 1995/168 10:20:04.81
1995/168 10:25:57.86 to 1995/168 10:59:01.92
1995/168 11:07:07.70 to 1995/168 11:32:36.13
1995/168 11:36:39.57 to 1995/168 12:04:28.13
1995/168 12:34:13.55 to 1995/168 12:43:37.02
1995/168 12:56:42.95 to 1995/168 12:58:50.06
1995/168 13:06:40.14 to 1995/168 13:09:50.36
1995/168 13:15:28.21 to 1995/168 13:17:41.77
1995/168 13:25:58.47 to 1995/168 13:27:32.97
1995/168 22:30:30.78 to 1995/168 23:09:19.97
1995/168 23:16:27.69 to 1995/168 23:21:20.75
1995/168 23:30:56.89 to 1995/168 23:59:57.35
1995/168 23:59:57.43 to 1995/169 00:11:41.61
1995/169 00:29:22.12 to 1995/169 01:10:37.06
1995/169 01:24:31.53 to 1995/169 01:42:52.17
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1995/169 02:40:00.01 to 1995/169 02:53:45.14
1995/169 03:05:59.76 to 1995/169 03:21:38.06
1995/169 03:28:27.18 to 1995/169 03:40:47.21
1995/169 03:47:01.01 to 1995/169 03:55:38.33
1995/169 04:01:08.88 to 1995/169 04:08:36.29
1995/169 04:14:41.49 to 1995/169 04:18:33.53
1995/169 04:25:29.09 to 1995/169 04:34:15.31
1995/169 04:40:56.95 to 1995/169 04:46:08.08
1995/169 04:53:22.91 to 1995/169 05:04:37.54
1995/169 05:09:56.23 to 1995/169 05:24:33.21
1995/169 05:31:23.81 to 1995/169 05:50:49.26
1995/169 06:04:36.02 to 1995/169 06:31:23.25
1995/169 06:36:40.76 to 1995/169 07:01:31.56

Table E-1. Abstract of Times of Hydrography (continued)

1995/169 07:46:50.82 to 1995/169 07:54:51.41
1995/169 07:58:08.64 to 1995/169 08:04:49.07
1995/169 08:11:17.78 to 1995/169 08:19:42.95
1995/169 08:23:01.16 to 1995/169 08:29:49.20
1995/169 08:36:05.47 to 1995/169 08:43:08.32
1995/169 08:46:27.02 to 1995/169 08:51:19.19
1995/169 08:57:33.75 to 1995/169 09:04:29.08
1995/169 09:07:19.13 to 1995/169 09:12:25.09
1995/169 09:18:22.26 to 1995/169 09:25:36.90
1995/169 09:28:49.91 to 1995/169 09:34:41.98
1995/169 09:40:17.79 to 1995/169 09:47:22.31
1995/169 09:50:14.69 to 1995/169 09:56:35.62
1995/169 10:03:20.53 to 1995/169 10:10:04.70
1995/169 10:14:35.40 to 1995/169 10:22:13.89
1995/169 10:44:58.64 to 1995/169 11:26:40.55
1995/169 11:41:37.52 to 1995/169 12:05:40.04
1995/169 12:09:28.37 to 1995/169 12:36:07.31
1995/169 12:40:23.19 to 1995/169 13:04:59.78
1995/169 13:08:09.60 to 1995/169 13:27:59.93
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1995/170 02:13:51.07 to 1995/170 02:27:40.94
1995/170 02:33:35.77 to 1995/170 02:46:58.39
1995/170 02:51:57.52 to 1995/170 02:57:17.55
1995/170 03:01:05.29 to 1995/170 03:03:23.71
1995/170 03:09:19.14 to 1995/170 03:24:13.59
1995/170 03:30:21.76 to 1995/170 03:33:37.65
1995/170 03:39:13.53 to 1995/170 03:52:09.78
1995/170 03:57:46.54 to 1995/170 04:16:21.70
1995/170 04:20:58.62 to 1995/170 04:37:41.79
1995/170 04:42:14.57 to 1995/170 04:53:59.72
1995/170 04:58:09.68 to 1995/170 05:07:53.66
1995/170 05:12:28.21 to 1995/170 05:15:28.70
1995/170 05:29:32.94 to 1995/170 05:46:57.89
1995/170 05:55:02.48 to 1995/170 05:57:34.53
1995/170 06:02:24.19 to 1995/170 06:04:50.61
1995/170 06:08:30.06 to 1995/170 06:11:17.81
1995/170 06:23:08.73 to 1995/170 06:24:43.61
1995/170 06:40:19.98 to 1995/170 06:42:39.00
1995/170 06:59:19.06 to 1995/170 07:06:16.26
1995/170 07:15:32.24 to 1995/170 07:28:03.02
1995/170 07:34:39.40 to 1995/170 07:48:22.97
1995/170 07:55:36.02 to 1995/170 08:06:04.70
1995/170 08:13:02.95 to 1995/170 08:19:16.01
1995/170 08:23:51.74 to 1995/170 08:40:52.55
1995/170 08:56:47.88 to 1995/170 09:09:19.54
1995/170 09:18:51.53 to 1995/170 09:34:39.96
1995/170 09:41:39.38 to 1995/170 09:58:35.01
1995/170 10:16:29.14 to 1995/170 10:30:28.77
1995/170 10:35:17.24 to 1995/170 10:51:37.38
1995/170 10:55:08.10 to 1995/170 11:09:49.07
1995/170 11:15:50.07 to 1995/170 11:36:27.08

Table E-1. Abstract of Times of Hydrography (continued)

1995/170 11:40:43.86 to 1995/170 11:55:25.50
1995/170 12:08:07.27 to 1995/170 12:24:39.17
1995/170 12:28:50.32 to 1995/170 12:43:48.22
1995/170 12:50:42.60 to 1995/170 13:08:11.99
1995/171 09:45:19.76 to 1995/171 10:01:01.90
1995/171 10:10:49.88 to 1995/171 10:17:35.75
1995/171 10:35:03.28 to 1995/171 10:50:04.25
1995/171 10:56:30.79 to 1995/171 11:09:28.22
1995/171 11:21:28.03 to 1995/171 11:37:03.67
1995/171 11:40:56.74 to 1995/171 11:55:05.57
1995/171 12:13:07.70 to 1995/171 12:28:30.59
1995/171 12:30:50.35 to 1995/171 12:42:39.05
1995/171 12:48:15.82 to 1995/171 13:00:13.70
1995/171 13:04:05.00 to 1995/171 13:13:46.61
1995/171 13:19:06.79 to 1995/171 13:29:57.13
1995/171 13:35:33.89 to 1995/171 13:43:03.08
1995/171 13:47:59.55 to 1995/171 13:54:36.60
1995/171 14:27:55.33 to 1995/171 14:31:52.40
1995/171 14:46:11.82 to 1995/171 14:50:23.64
1995/171 14:57:07.94 to 1995/171 15:02:26.78
1995/171 15:13:25.87 to 1995/171 15:24:37.54
1995/171 15:52:36.02 to 1995/171 15:56:49.09
1995/171 16:08:02.10 to 1995/171 16:11:59.17
1995/171 16:15:00.11 to 1995/171 16:20:44.13
1995/171 16:27:13.03 to 1995/171 16:32:57.82
1995/171 16:38:11.55 to 1995/171 16:48:35.45
1995/171 16:56:23.75 to 1995/171 17:08:35.56
1995/171 17:17:50.96 to 1995/171 17:30:47.71
1995/171 17:37:48.31 to 1995/171 17:53:39.64
1995/171 17:57:51.38 to 1995/171 18:03:06.67
1995/171 18:49:15.05 to 1995/171 18:58:06.30
1995/171 19:14:13.85 to 1995/171 19:25:04.42
1995/171 19:30:10.07 to 1995/171 19:31:39.91
1995/171 19:31:55.02 to 1995/171 19:39:47.24
1995/171 19:45:09.79 to 1995/171 19:55:31.69
1995/171 20:00:37.72 to 1995/171 20:09:59.70
1995/171 20:31:08.17 to 1995/171 20:36:15.08
1995/171 20:40:45.02 to 1995/171 20:46:13.75
1995/171 20:50:37.42 to 1995/171 20:55:52.51
1995/171 20:59:53.41 to 1995/171 21:06:09.41
1995/171 21:11:02.49 to 1995/171 21:17:17.21
1995/171 21:21:56.45 to 1995/171 21:28:26.13
1995/171 21:31:50.37 to 1995/171 21:38:27.55
1995/171 21:43:08.67 to 1995/171 21:49:51.30
1995/171 22:00:06.70 to 1995/171 22:04:01.56
1995/171 22:07:45.46 to 1995/171 22:12:27.29
1995/171 22:17:02.35 to 1995/171 22:21:09.53
1995/171 22:25:06.45 to 1995/171 22:30:20.62
1995/171 22:35:37.49 to 1995/171 22:40:02.60
1995/171 22:45:07.66 to 1995/171 22:50:04.05
1995/171 22:53:45.92 to 1995/171 22:57:44.94

Table E-1. Abstract of Times of Hydrography (continued)

1995/171 23:04:48.80 to 1995/171 23:09:13.35
1995/171 23:14:19.38 to 1995/171 23:18:01.64
1995/171 23:24:27.28 to 1995/171 23:31:59.73
1995/171 23:36:33.10 to 1995/171 23:42:58.30
1995/171 23:48:10.77 to 1995/171 23:55:38.09
1995/171 23:59:03.06 to 1995/171 23:59:58.65
1995/171 23:59:58.76 to 1995/172 00:04:45.50
1995/172 00:27:02.70 to 1995/172 00:35:07.15
1995/172 00:39:54.44 to 1995/172 00:48:55.39
1995/172 00:54:00.01 to 1995/172 01:03:50.95
1995/172 01:08:49.28 to 1995/172 01:19:59.99
1995/172 09:45:05.64 to 1995/172 09:46:43.77
1995/172 09:51:10.62 to 1995/172 09:52:29.79
1995/172 09:58:37.66 to 1995/172 10:00:18.10
1995/172 10:04:24.72 to 1995/172 10:05:38.04
1995/172 10:16:11.10 to 1995/172 10:17:32.47
1995/172 10:27:10.95 to 1995/172 10:28:35.24
1995/172 10:33:21.93 to 1995/172 10:55:20.62
1995/172 10:59:32.06 to 1995/172 11:27:30.98
1995/172 11:32:04.94 to 1995/172 11:53:09.63
1995/172 11:57:50.18 to 1995/172 12:24:58.74
1995/172 12:29:48.70 to 1995/172 12:49:29.92
1995/172 12:52:57.22 to 1995/172 13:16:15.00
1995/172 13:28:39.11 to 1995/172 13:47:15.75
1995/172 14:02:25.46 to 1995/172 14:25:03.17
1995/172 14:30:59.56 to 1995/172 14:53:23.43
1995/172 14:55:30.45 to 1995/172 15:23:40.63
1995/172 15:27:56.51 to 1995/172 15:53:42.12
1995/172 15:55:55.95 to 1995/172 16:30:53.77
1995/172 16:35:03.14 to 1995/172 16:50:59.83
1995/172 16:51:30.05 to 1995/172 17:08:38.03
1995/172 17:10:48.90 to 1995/172 17:16:17.82
1995/172 17:16:21.00 to 1995/172 17:29:32.88
1995/172 17:29:37.02 to 1995/172 17:35:34.89
1995/172 17:35:39.04 to 1995/172 17:45:40.10
1995/172 17:50:12.57 to 1995/172 17:52:59.96
1995/172 17:53:30.17 to 1995/172 18:00:59.96
1995/172 18:02:00.02 to 1995/172 18:07:59.96
1995/172 18:09:00.10 to 1995/172 18:17:59.95
1995/172 18:22:00.13 to 1995/172 18:23:20.78
1995/172 18:28:10.44 to 1995/172 18:31:27.82
1995/172 18:32:16.03 to 1995/172 18:36:08.89
1995/172 18:36:18.07 to 1995/172 18:57:59.95
1995/172 19:00:30.15 to 1995/172 19:02:38.20
1995/174 08:44:40.21 to 1995/174 08:45:40.13
1995/174 08:45:46.27 to 1995/174 09:20:24.84
1995/174 09:32:16.65 to 1995/174 10:05:29.60
1995/174 10:07:41.95 to 1995/174 10:41:29.86
1995/174 10:45:37.20 to 1995/174 11:18:20.34
1995/174 11:20:24.99 to 1995/174 11:54:38.47
1995/174 11:59:51.56 to 1995/174 12:31:31.54

Table E-1. Abstract of Times of Hydrography (continued)

1995/174 12:34:15.29 to 1995/174 13:09:51.03
1995/174 13:15:09.72 to 1995/174 13:31:18.24
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