

The boundaries of tide zones used are listed in the Phase IIB 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	
Cuttyhunk	B6	00 00	*1.00	1.151	1.151
Cuttyhunk	B7	+00 06	*1.00	1.151	1.151
Cuttyhunk	B8	+00 12	*0.94	1.151	1.151
Cuttyhunk	B9	+00 18	*0.88	1.151	1.151
Cedar Tree Neck	B10	-00 12	*1.20	0.611	0.611
Cedar Tree Neck	B11	00 00	*1.00	0.611	0.611

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

The on-line times for acquisition of valid hydrographic data are presented in Table E-1.

**Table E-1. Abstract of Times of Hydrography**

1995/276 01:22:04.38 to 1995/276 01:37:00.31  
 1995/276 01:44:59.56 to 1995/276 02:10:01.02  
 1995/276 02:17:45.46 to 1995/276 02:39:53.91  
 1995/276 02:48:54.48 to 1995/276 03:07:44.74  
 1995/276 03:15:54.36 to 1995/276 03:32:18.57  
 1995/276 03:39:59.53 to 1995/276 03:55:22.94  
 1995/276 04:01:10.06 to 1995/276 04:17:00.20  
 1995/276 04:24:03.47 to 1995/276 04:37:30.52  
 1995/276 04:44:36.23 to 1995/276 04:56:49.73  
 1995/276 05:03:09.15 to 1995/276 05:15:53.25  
 1995/276 05:22:55.03 to 1995/276 05:35:14.54  
 1995/276 05:41:40.48 to 1995/276 05:54:20.42  
 1995/276 06:00:56.21 to 1995/276 06:13:15.64  
 1995/276 06:28:20.61 to 1995/276 07:28:18.72  
 1995/276 07:33:33.26 to 1995/276 08:31:36.48  
 1995/276 08:37:44.05 to 1995/276 09:37:27.48  
 1995/276 09:42:50.69 to 1995/276 10:43:29.96  
 1995/276 10:47:54.65 to 1995/276 11:01:22.29  
 1995/277 15:34:59.36 to 1995/277 15:34:59.95  
 1995/277 15:55:00.05 to 1995/277 16:06:08.98  
 1995/277 16:15:19.11 to 1995/277 16:40:35.85  
 1995/277 16:47:13.93 to 1995/277 17:00:29.95  
 1995/277 17:19:58.05 to 1995/277 17:41:25.91  
 1995/277 18:15:54.83 to 1995/277 18:33:29.84  
 1995/277 20:17:50.07 to 1995/277 20:17:51.92  
 1995/277 20:25:09.70 to 1995/277 20:39:12.89  
 1995/277 20:50:46.33 to 1995/277 21:01:48.82  
 1995/277 21:23:08.23 to 1995/277 21:32:20.51  
 1995/277 21:43:32.62 to 1995/277 21:50:55.88  
 1995/277 22:01:33.04 to 1995/277 22:07:09.06  
 1995/277 22:14:28.32 to 1995/277 22:18:19.47

**Table E-1. Abstract of Times of Hydrography (Continued)**

1995/277 22:23:38.15 to 1995/277 22:25:35.54  
1995/277 23:14:01.06 to 1995/277 23:59:56.75  
1995/277 23:59:56.83 to 1995/278 00:33:26.87  
1995/278 00:55:57.68 to 1995/278 02:15:35.04  
1995/278 02:22:17.86 to 1995/278 03:43:42.76  
1995/278 03:55:54.42 to 1995/278 04:51:59.86  
1995/278 05:01:00.14 to 1995/278 05:15:22.30  
1995/278 05:26:24.71 to 1995/278 06:43:39.79  
1995/278 07:36:03.20 to 1995/278 08:33:59.96  
1995/278 08:44:00.16 to 1995/278 08:56:06.04  
1995/278 09:13:20.16 to 1995/278 10:22:11.41  
1995/278 10:29:27.11 to 1995/278 11:34:08.93  
1995/278 11:34:16.26 to 1995/278 11:47:11.62  
1995/278 12:01:07.85 to 1995/278 13:17:44.79  
1995/278 13:49:25.74 to 1995/278 15:05:30.39  
1995/278 15:13:18.76 to 1995/278 16:32:17.53  
1995/278 16:37:35.04 to 1995/278 17:01:59.98  
1995/278 17:16:00.14 to 1995/278 17:53:34.36  
1995/278 18:54:00.05 to 1995/278 19:39:26.79  
1995/278 19:48:03.07 to 1995/278 21:05:10.53  
1995/278 21:53:30.13 to 1995/278 22:37:00.07  
1995/278 23:13:06.60 to 1995/278 23:59:56.43  
1995/278 23:59:56.51 to 1995/279 00:27:59.49  
1995/279 01:01:09.31 to 1995/279 02:23:38.19  
1995/279 03:16:32.41 to 1995/279 04:11:10.76  
1995/279 04:56:00.02 to 1995/279 05:11:59.93  
1995/279 05:18:00.10 to 1995/279 05:44:54.42  
1995/279 06:12:12.00 to 1995/279 07:08:34.04  
1995/279 07:26:45.04 to 1995/279 08:39:53.43  
1995/279 08:58:16.58 to 1995/279 10:15:19.89  
1995/279 10:31:05.14 to 1995/279 11:25:14.16  
1995/279 11:48:31.19 to 1995/279 12:42:34.75  
1995/279 12:44:30.50 to 1995/279 13:30:52.93  
1995/279 13:36:57.84 to 1995/279 14:30:17.83  
1995/279 14:32:37.89 to 1995/279 15:17:38.30  
1995/291 07:48:59.67 to 1995/291 09:02:11.61  
1995/291 09:09:17.54 to 1995/291 10:21:06.53  
1995/291 10:29:40.15 to 1995/291 11:42:37.58  
1995/291 11:52:13.41 to 1995/291 13:06:32.30  
1995/291 13:32:43.82 to 1995/291 14:24:23.53  
1995/291 15:07:17.25 to 1995/291 15:49:59.57  
1995/291 16:01:11.38 to 1995/291 16:11:59.94  
1995/291 16:29:00.15 to 1995/291 16:47:42.11  
1995/291 17:01:57.30 to 1995/291 17:37:05.39  
1995/291 18:23:36.64 to 1995/291 19:00:40.34  
1995/291 19:10:02.84 to 1995/291 19:37:12.87  
1995/291 19:49:42.30 to 1995/291 20:17:11.29  
1995/291 20:27:05.78 to 1995/291 20:58:19.62

**Table E-1. Abstract of Times of Hydrography (Continued)**

1995/291 21:08:31.59 to 1995/291 21:41:39.19  
1995/291 22:31:06.63 to 1995/291 22:55:28.38  
1995/291 23:10:44.61 to 1995/291 23:37:37.15  
1995/291 23:44:28.86 to 1995/291 23:59:56.49  
1995/291 23:59:56.71 to 1995/292 00:05:51.39  
1995/292 00:17:51.20 to 1995/292 00:39:16.39  
1995/292 00:46:59.35 to 1995/292 01:05:03.99  
1995/292 01:12:41.91 to 1995/292 01:30:41.51  
1995/292 01:36:49.08 to 1995/292 01:50:48.42  
1995/292 01:58:20.72 to 1995/292 02:11:33.25  
1995/292 02:18:48.66 to 1995/292 02:29:09.97  
1995/292 02:37:32.33 to 1995/292 02:48:28.30  
1995/292 02:54:41.79 to 1995/292 03:01:45.50  
1995/292 03:08:48.46 to 1995/292 03:14:12.04  
1995/292 03:22:15.15 to 1995/292 03:24:32.38  
1995/292 04:12:50.20 to 1995/292 04:42:01.09  
1995/292 04:52:09.81 to 1995/292 05:34:31.69  
1995/292 05:42:33.61 to 1995/292 05:43:50.93  
1995/292 05:43:51.00 to 1995/292 06:16:44.30  
1995/292 06:53:00.17 to 1995/292 08:05:17.30  
1995/292 08:13:02.63 to 1995/292 09:10:04.95  
1995/292 09:18:26.13 to 1995/292 10:17:15.99  
1995/292 10:21:08.18 to 1995/292 11:19:36.11  
1995/292 11:25:50.79 to 1995/292 12:24:41.54  
1995/292 12:29:18.16 to 1995/292 13:31:39.25  
1995/292 13:36:24.46 to 1995/292 14:36:28.38  
1995/292 14:40:41.90 to 1995/292 15:45:25.77  
1995/292 16:25:23.23 to 1995/292 17:25:05.52  
1995/292 17:32:47.00 to 1995/292 18:29:57.32  
1995/292 18:36:01.04 to 1995/292 19:27:52.60  
1995/292 19:41:39.35 to 1995/292 19:52:29.39  
1995/292 20:01:16.64 to 1995/292 20:21:58.21  
1995/292 20:28:13.56 to 1995/292 20:47:37.29  
1995/292 21:23:43.97 to 1995/292 21:41:35.28  
1995/292 21:47:14.11 to 1995/292 22:03:58.46  
1995/292 22:07:38.80 to 1995/292 22:22:47.46  
1995/292 22:27:43.41 to 1995/292 22:42:26.23  
1995/292 22:46:30.56 to 1995/292 22:59:20.58  
1995/292 23:04:30.67 to 1995/292 23:16:48.11  
1995/292 23:20:43.55 to 1995/292 23:31:04.56  
1995/292 23:35:44.44 to 1995/292 23:44:50.79  
1995/292 23:48:38.24 to 1995/292 23:56:11.27  
1995/293 00:00:39.97 to 1995/293 00:06:52.87  
1995/293 00:22:08.87 to 1995/293 00:27:19.71  
1995/293 00:51:19.99 to 1995/293 00:55:00.47  
1995/293 00:59:30.35 to 1995/293 01:01:41.29  
1995/293 01:06:37.46 to 1995/293 01:07:30.27  
1995/293 01:14:34.42 to 1995/293 01:42:27.03

**Table E-1. Abstract of Times of Hydrography (Continued)**

1995/293 01:50:57.17 to 1995/293 02:04:02.30  
1995/293 02:08:48.11 to 1995/293 02:35:53.69  
1995/293 02:39:49.73 to 1995/293 03:01:15.81  
1995/293 03:06:33.90 to 1995/293 03:31:42.47  
1995/293 03:35:50.06 to 1995/293 03:57:43.99  
1995/293 04:04:19.11 to 1995/293 04:18:22.89  
1995/293 04:22:36.41 to 1995/293 04:35:43.31  
1995/293 04:42:47.47 to 1995/293 04:57:06.66  
1995/293 05:02:06.39 to 1995/293 05:14:54.33  
1995/293 05:21:27.68 to 1995/293 05:34:24.17  
1995/293 05:44:16.60 to 1995/293 05:50:11.28  
1995/293 05:56:35.14 to 1995/293 06:02:19.75  
1995/293 06:06:23.26 to 1995/293 06:12:19.65  
1995/293 06:17:19.68 to 1995/293 06:23:08.73  
1995/293 06:27:41.20 to 1995/293 06:33:26.11  
1995/293 06:38:39.76 to 1995/293 06:44:21.41  
1995/293 06:48:37.59 to 1995/293 06:54:34.34  
1995/293 06:59:04.15 to 1995/293 07:04:42.24  
1995/293 07:07:51.47 to 1995/293 07:13:57.11  
1995/293 07:19:17.58 to 1995/293 07:25:03.67  
1995/293 07:29:26.37 to 1995/293 07:35:20.46  
1995/293 07:40:11.89 to 1995/293 07:45:49.98  
1995/293 08:01:58.64 to 1995/293 08:13:13.56  
1995/293 08:18:46.77 to 1995/293 08:30:41.98  
1995/293 08:35:23.64 to 1995/293 08:46:32.93  
1995/293 08:52:07.32 to 1995/293 09:04:12.24  
1995/293 09:16:29.08 to 1995/293 09:28:02.89  
1995/293 09:33:21.88 to 1995/293 09:45:32.20  
1995/293 09:50:20.08 to 1995/293 10:01:48.34  
1995/293 10:06:45.18 to 1995/293 10:19:36.90  
1995/293 10:23:44.79 to 1995/293 10:35:15.12  
1995/293 10:40:07.14 to 1995/293 10:52:55.98  
1995/293 10:57:05.05 to 1995/293 11:08:28.57  
1995/293 11:13:51.71 to 1995/293 11:25:56.16  
1995/293 11:29:46.20 to 1995/293 11:41:23.46  
1995/293 11:45:34.63 to 1995/293 11:57:12.35  
1995/293 12:13:00.09 to 1995/293 12:57:08.62  
1995/293 13:30:29.40 to 1995/293 13:46:36.72  
1995/293 13:56:31.51 to 1995/293 14:26:48.76  
1995/293 14:42:18.61 to 1995/293 14:45:36.50  
1995/293 14:49:01.51 to 1995/293 14:53:07.76  
1995/293 14:57:14.17 to 1995/293 15:00:43.39  
1995/293 15:21:27.26 to 1995/293 15:39:08.49  
1995/293 15:43:52.52 to 1995/293 16:04:18.98  
1995/293 16:15:22.87 to 1995/293 16:28:20.30  
1995/293 16:34:58.97 to 1995/293 16:47:21.44  
1995/296 13:51:06.99 to 1995/296 13:56:39.97  
1995/296 14:01:57.18 to 1995/296 14:05:04.19

**Table E-1. Abstract of Times of Hydrography (Continued)**

1995/296 14:11:31.31 to 1995/296 14:16:54.59  
1995/296 14:35:06.78 to 1995/296 14:44:37.13  
1995/296 16:11:47.60 to 1995/296 16:18:46.27  
1995/296 21:24:16.79 to 1995/296 21:33:47.44  
1995/296 23:14:53.62 to 1995/296 23:34:28.32  
1995/297 00:11:42.24 to 1995/297 00:33:34.10  
1995/298 17:48:58.43 to 1995/298 18:24:47.48  
1995/298 18:28:48.85 to 1995/298 18:38:36.35  
1995/298 18:50:09.79 to 1995/298 19:00:29.17  
1995/298 19:05:13.50 to 1995/298 19:13:46.30  
1995/298 19:19:51.50 to 1995/298 19:24:00.71  
1995/298 19:34:09.43 to 1995/298 19:48:14.10  
1995/298 19:56:36.17 to 1995/298 20:05:23.79  
1995/298 20:12:07.57 to 1995/298 20:32:03.00  
1995/298 20:39:20.86 to 1995/298 20:54:46.33  
1995/298 21:00:41.76 to 1995/298 21:14:54.13  
1995/298 21:20:00.75 to 1995/298 21:32:37.36  
1995/298 21:39:43.89 to 1995/298 21:49:22.83  
1995/298 22:09:36.48 to 1995/298 22:16:28.63  
1995/298 22:18:14.32 to 1995/298 22:27:41.11  
1995/298 22:30:55.84 to 1995/298 22:38:24.82  
1995/298 22:42:01.68 to 1995/298 22:45:12.53  
1995/298 22:50:42.06 to 1995/298 22:55:18.93  
1995/298 23:08:15.99 to 1995/298 23:12:57.72  
1995/298 23:31:09.91 to 1995/298 23:44:58.29  
1995/299 00:19:24.25 to 1995/299 00:23:15.10  
1995/299 00:33:15.81 to 1995/299 00:39:59.97  
1995/299 00:51:24.52 to 1995/299 00:55:22.78  
1995/299 01:11:33.51 to 1995/299 01:17:11.01  
1995/299 01:26:34.69 to 1995/299 01:31:34.57  
1995/299 01:42:12.91 to 1995/299 01:55:25.44  
1995/299 02:09:23.15 to 1995/299 02:11:54.08  
1995/299 02:35:31.74 to 1995/299 02:39:25.55  
1995/299 02:45:23.05 to 1995/299 02:48:54.94  
1995/299 02:57:40.29 to 1995/299 03:09:28.13  
1995/299 03:14:21.64 to 1995/299 03:17:57.08  
1995/299 03:22:06.15 to 1995/299 03:26:16.56  
1995/299 03:35:40.24 to 1995/299 03:39:05.91  
1995/299 03:47:21.76 to 1995/299 03:50:38.24  
1995/299 03:55:41.23 to 1995/299 03:56:39.96  
1995/299 04:06:06.90 to 1995/299 04:10:16.42  
1995/299 04:22:14.45 to 1995/299 04:32:04.40  
1995/299 04:37:24.40 to 1995/299 04:43:32.71  
1995/299 04:54:27.04 to 1995/299 05:14:14.34  
1995/299 05:22:03.82 to 1995/299 05:54:24.90  
1995/299 06:06:26.49 to 1995/299 06:11:47.40  
1995/299 06:22:47.66 to 1995/299 06:27:12.58  
1995/299 06:33:47.70 to 1995/299 06:36:36.93

1995/299 06:49:10.51 to 1995/299 06:52:13.07