

APPENDIX I. TIDES AND WATER LEVELS

Field Tide Note

A field tide note was not required for H12587.

Final Tide Note

Observed verified water levels for the station in Sandy Hook, NJ (8531680) were downloaded from the [NOAA Tides and Currents](#) web site. Water Level correctors were prepared for each zone using the **SABER Create Water Level Files** software. The **SABER Apply Correctors** software applied the water level data to the multibeam data according to the zone containing the nadir beam of each ping.

Please refer to the H12587 Descriptive Report Section C.1 for details regarding final tides for H12587. The water level zoning correctors, based entirely on Sandy Hook, NJ (8531680), were applied to all multibeam data for H12587.

No final tide note was provided by NOAA Center for Operational Oceanographic Products and Services (CO-OPS), Leidos is not required to have a final tide note from CO-OPS.

The on-line times for acquisition of valid hydrographic data are presented in the Abstract Times of Hydrography, H12587 (Table A-1).

Abstract Times of Hydrography

Project: OPR-B310-KR1-13

Registry No.: H12587

Contractor Name: Leidos

Date: 28 April 2014

Sheet Designation: 1

Inclusive Dates: 19 August 2013 - 18 January 2014

Field work is complete.

Begin Date	Begin Julian Day	Begin Time	End Date	End Julian Day	End Time
8/19/2013	231	12:45:06	8/19/2013	231	21:07:15
8/20/2013	232	12:10:40	8/20/2013	232	18:29:18
8/21/2013	233	11:34:48	8/21/2013	233	20:18:57
8/22/2013	234	17:22:38	8/22/2013	234	20:46:01
8/23/2013	235	11:28:35	8/23/2013	235	20:20:51
8/24/2013	236	11:48:53	8/24/2013	236	21:54:56
8/25/2013	237	11:17:11	8/25/2013	237	20:45:18
8/26/2013	238	11:19:58	8/26/2013	238	20:43:40
8/27/2013	239	11:17:09	8/27/2013	239	21:36:02
8/28/2013	240	11:03:10	8/28/2013	240	20:49:09
8/29/2013	241	11:16:00	8/29/2013	241	21:47:34
8/30/2013	242	11:38:11	8/30/2013	242	20:24:00
8/31/2013	243	11:15:23	8/31/2013	243	21:30:26

Begin Date	Begin Julian Day	Begin Time	End Date	End Julian Day	End Time
9/01/2013	244	11:27:08	9/01/2013	244	21:21:48
9/02/2013	245	11:50:09	9/02/2013	245	20:56:43
9/03/2013	246	11:40:53	9/06/2013	249	21:51:08
9/07/2013	250	10:52:05	9/07/2013	250	21:12:13
9/08/2013	251	08:30:23	9/09/2013	252	21:25:56
9/10/2013	253	11:28:10	9/10/2013	253	20:24:01
9/11/2013	254	10:56:23	9/11/2013	254	21:32:40
9/12/2013	255	10:56:06	9/12/2013	255	20:57:09
9/13/2013	256	11:59:20	9/13/2013	256	20:58:16
9/14/2013	257	11:08:12	9/14/2013	257	21:45:50
9/15/2013	258	10:53:34	9/15/2013	258	21:28:05
9/16/2013	259	10:47:57	9/16/2013	259	20:58:36
9/17/2013	260	11:15:19	9/17/2013	260	20:15:10
9/18/2013	261	11:05:49	9/18/2013	261	21:07:59
9/19/2013	262	11:02:40	9/19/2013	262	20:34:46
9/20/2013	263	11:00:17	9/20/2013	263	21:09:38
9/23/2013	266	15:22:40	9/23/2013	266	21:13:21
9/24/2013	267	11:09:34	9/24/2013	267	20:40:20
9/25/2013	268	11:16:47	9/25/2013	268	20:13:01
9/26/2013	278	10:48:11	9/26/2013	278	20:54:25
9/27/2013	279	10:55:33	9/27/2013	279	20:31:03
10/13/2013	286	12:05:46	10/13/2013	286	21:39:44
10/14/2013	287	11:13:30	10/14/2013	287	14:53:35
10/15/2013	289	11:13:24	10/15/2013	289	22:27:39
10/20/2013	293	11:06:50	10/20/2013	293	20:05:46
10/21/2013	294	11:48:14	10/21/2013	294	20:32:26
10/22/2013	295	14:26:22	10/22/2013	295	19:38:49
10/24/2013	297	11:12:34	10/24/2013	297	20:08:09
11/22/2013	326	15:16:08	11/22/2013	326	21:19:44
11/25/2013	329	11:30:28	11/25/2013	329	21:42:27
11/26/2013	330	10:57:04	11/26/2013	330	21:30:20
12/03/2013	337	11:36:28	12/03/2013	337	22:40:13
12/04/2013	338	11:29:30	12/04/2013	338	22:19:25
12/05/2013	339	12:28:15	12/05/2013	339	22:05:50
12/06/2013	340	12:03:36	12/06/2013	340	22:08:28
12/08/2013	342	13:28:44	12/08/2013	342	22:32:04
12/10/2013	344	12:13:00	12/10/2013	344	21:40:44
12/11/2013	345	11:42:03	12/11/2013	345	21:42:16
12/16/2013	350	14:42:20	12/16/2013	350	22:09:31
12/17/2013	351	12:55:12	12/17/2013	351	19:34:39
12/18/2013	352	12:47:58	12/18/2013	352	22:43:37
12/21/2013	355	20:26:11	12/21/2013	355	22:02:11
1/11/2014	011	13:34:17	1/11/2014	011	13:52:27
1/12/2014	012	13:08:14	1/12/2014	012	17:54:56