

✓ Echo Vambetz  
PRINT OUT

2822/09/05	20:58:22	009.2m/08.4m	02 52.08°N	079 58.02°W	02.9kt	186.8des
2822/09/05	20:57:33	009.4m/08.4m	02 52.03°N	079 58.01°W	03.5kt	188.8des
2822/09/05	20:56:32	009.2m/08.4m	02 52.99°N	079 58.00°W	04.1kt	190.8des
2822/09/05	20:55:22	009.2m/08.4m	02 53.06°N	079 57.99°W	04.5kt	192.8des
2822/09/05	20:54:31	009.5m/08.4m	02 53.14°N	079 57.95°W	05.2kt	193.8des
2822/09/05	20:53:33	009.5m/08.4m	02 53.23°N	079 57.93°W	05.5kt	194.8des
2822/09/05	20:52:33	009.5m/08.4m	02 53.32°N	079 57.90°W	05.5kt	195.8des
2822/09/05	20:51:33	009.5m/08.4m	02 53.41°N	079 57.87°W	05.6kt	195.8des
2822/09/05	20:50:33	009.4m/08.4m	02 53.50°N	079 57.84°W	05.6kt	195.8des
2822/09/05	20:49:33	009.4m/08.4m	02 53.59°N	079 57.81°W	05.7kt	196.8des
2822/09/05	20:48:33	009.5m/08.4m	02 53.69°N	079 57.77°W	05.8kt	197.8des
2822/09/05	20:47:33	009.4m/08.4m	02 53.78°N	079 57.74°W	05.8kt	198.8des
2822/09/05	20:46:33	009.3m/08.4m	02 53.87°N	079 57.69°W	05.8kt	204.8des
2822/09/05	20:45:34	009.5m/08.4m	02 53.96°N	079 57.53°W	06.2kt	213.8des
2822/09/05	20:44:34	009.5m/08.4m	02 54.04°N	079 57.55°W	06.3kt	221.8des
2822/09/05	20:43:34	009.1m/08.4m	02 54.11°N	079 57.45°W	06.5kt	224.8des
2822/09/05	20:42:34	008.7m/08.4m	02 54.19°N	079 57.37°W	06.6kt	226.8des
2822/09/05	20:41:34	008.9m/08.4m	02 54.26°N	079 57.27°W	06.8kt	236.8des
2822/09/05	20:40:34	008.9m/08.4m	02 54.31°N	079 57.15°W	06.9kt	242.8des
2822/09/05	20:39:35	007.9m/08.4m	02 54.36°N	079 57.02°W	06.9kt	245.8des
2822/09/05	20:38:35	006.9m/08.4m	02 54.41°N	079 56.90°W	06.9kt	245.8des
2822/09/05	20:37:35	005.1m/08.4m	02 54.46°N	079 56.77°W	06.9kt	249.8des
2822/09/05	20:36:35	005.7m/08.4m	02 54.49°N	079 56.54°W	07.0kt	257.8des
2822/09/05	20:35:35	006.3m/08.4m	02 54.50°N	079 56.50°W	07.1kt	261.8des
2822/09/05	20:34:35	006.2m/08.4m	02 54.52°N	079 56.36°W	07.1kt	261.8des
2822/09/05	20:33:34	005.9m/08.4m	02 54.54°N	079 56.22°W	07.1kt	266.8des
2822/09/05	20:32:35	005.3m/08.4m	02 54.59°N	079 56.09°W	06.9kt	249.8des
2822/09/05	20:31:36	004.3m/08.4m	02 54.64°N	079 55.97°W	06.9kt	233.8des
2822/09/05	20:30:36	005.3m/08.4m	02 54.72°N	079 55.98°W	06.8kt	228.8des
2822/09/05	20:29:36	006.3m/08.4m	02 54.82°N	079 55.91°W	06.8kt	202.8des
2822/09/05	20:28:36	005.9m/08.4m	02 54.90°N	079 55.79°W	06.9kt	189.8des
2822/09/05	20:27:36	005.9m/08.4m	02 55.05°N	079 55.79°W	07.1kt	171.8des
2822/09/05	20:26:37	005.9m/08.4m	02 55.17°N	079 55.94°W	07.0kt	162.8des
2822/09/05	20:25:37	005.3m/08.4m	02 55.27°N	079 55.09°W	06.9kt	156.8des
2822/09/05	20:24:36	005.3m/08.4m	02 55.38°N	079 55.95°W	06.5kt	155.8des
2822/09/05	20:23:37	005.5m/08.4m	02 55.48°N	079 56.00°W	06.1kt	156.8des
2822/09/05	20:22:37	005.3m/08.4m	02 55.57°N	079 56.04°W	05.7kt	155.8des
2822/09/05	20:21:37	006.0m/08.4m	02 55.65°N	079 56.09°W	05.2kt	155.8des
2822/09/05	20:20:37	005.9m/08.4m	02 55.73°N	079 56.13°W	04.2kt	155.8des
2822/09/05	20:19:37	012.3m/08.4m	02 55.79°N	079 56.16°W	03.2kt	152.8des
2822/09/05	20:18:37	012.1m/08.4m	02 55.83°N	079 56.19°W	02.4kt	148.8des
2822/09/05	20:17:38	014.3m/08.4m	02 55.85°N	079 56.23°W	01.9kt	138.8des
2822/09/05	20:16:38	013.6m/08.4m	02 55.87°N	079 56.25°W	01.2kt	113.8des
2822/09/05	20:15:38	011.9m/08.4m	02 55.87°N	079 56.27°W	00.5kt	044.8des
2822/09/05	20:14:38	011.7m/08.4m	02 55.86°N	079 56.26°W	01.2kt	009.8des
2822/09/05	20:13:37	013.9m/08.4m	02 55.94°N	079 56.25°W	01.4kt	088.8des
2822/09/05	20:12:38	014.4m/08.4m	02 55.92°N	079 56.26°W	01.2kt	012.8des
2822/09/05	20:11:38	014.3m/08.4m	02 55.90°N	079 56.26°W	00.9kt	014.8des
2822/09/05	20:10:38	013.0m/08.4m	02 55.79°N	079 56.27°W	00.5kt	019.8des
2822/09/05	20:09:38	---	02 55.78°N	079 56.28°W	00.2kt	279.8des
2822/09/05	20:08:39	011.3m/08.4m	02 55.78°N	079 56.28°W	00.6kt	195.8des
2822/09/05	20:07:39	012.6m/08.4m	02 55.79°N	079 56.27°W	00.5kt	206.8des
2822/09/05	20:06:39	013.4m/08.4m	02 55.90°N	079 56.25°W	00.3kt	202.8des
2822/09/05	20:05:39	013.9m/08.4m	02 55.79°N	079 56.26°W	01.1kt	354.8des
2822/09/05	20:04:39	---	02 55.77°N	079 56.25°W	01.0kt	009.8des
2822/09/05	20:03:40	007.4m/08.4m	02 55.76°N	079 56.25°W	00.1kt	121.8des
2822/09/05	20:02:40	007.9m/08.4m	02 55.76°N	079 56.25°W	00.1kt	207.8des
2822/09/05	20:01:40	011.4m/08.4m	02 55.95°N	079 56.20°W	07.0kt	204.8des
2822/09/05	20:00:40	---	02 55.96°N	079 56.14°W	07.1kt	282.8des
2822/09/05	19:59:40	008.3m/08.4m	02 56.06°N	079 56.06°W	07.6kt	228.8des
2822/09/05	19:58:40	---	02 56.14°N	079 56.05°W	07.0kt	232.8des
2822/09/05	19:57:39	006.9m/08.4m	02 56.22°N	079 56.02°W	07.6kt	231.8des
2822/09/05	19:56:40	010.0m/08.4m	02 56.31°N	079 56.72°W	07.2kt	221.8des
2822/09/05	19:55:41	010.9m/08.4m	02 56.40°N	079 56.64°W	06.6kt	213.8des
2822/09/05	19:54:41	011.9m/08.4m	02 56.51°N	079 56.58°W	06.6kt	194.8des
2822/09/05	19:53:41	015.9m/08.4m	02 56.62°N	079 56.59°W	06.8kt	171.8des
2822/09/05	19:52:41	010.7m/08.4m	02 56.70°N	079 56.54°W	06.7kt	158.8des
2822/09/05	19:51:41	008.7m/08.4m	02 56.80°N	079 56.59°W	06.0kt	168.8des
2822/09/05	19:50:41	005.9m/08.4m	02 56.92°N	079 56.70°W	05.2kt	162.8des
2822/09/05	19:49:42	009.5m/08.4m	02 57.00°N	079 56.76°W	04.7kt	162.8des
2822/09/05	19:48:41	009.5m/08.4m	02 57.00°N	079 56.76°W	05.0kt	193.8des
2822/09/05	19:47:42	009.9m/08.4m	02 57.15°N	079 56.69°W	05.0kt	219.8des
2822/09/05	19:46:41	006.4m/08.4m	02 57.21°N	079 56.60°W	06.0kt	238.8des
2822/09/05	19:45:42	009.7m/08.4m	02 57.26°N	079 56.49°W	05.9kt	207.8des
2822/09/05	19:44:42	009.5m/08.4m	02 57.31°N	079 56.37°W	05.6kt	240.8des
2822/09/05	19:43:42	009.1m/08.4m	02 57.36°N	079 56.30°W	05.3kt	225.8des
2822/09/05	19:42:42	006.3m/08.4m	02 57.41°N	079 56.22°W	04.9kt	229.8des
2822/09/05	19:41:42	006.5m/08.4m	02 57.47°N	079 56.15°W	04.3kt	219.8des

**From:** [REDACTED]  
**To:** [REDACTED]  
**Subject:** FW: BOW TRIUMPH - echo depth sounder  
**Date:** Monday, December 5, 2022 8:45:36 AM  
**Attachments:** [image001.png](#)  
[Echo Sounder maintenance record.pdf](#)  
[Echo sounder SMM procedures.PNG](#)  
[ECHO SOUNDER AND SPEED LOG ARRANGEMENT.pdf](#)

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**From:** Ryan Gilsenan <[gilsenan@hinesandgilsenan.com](mailto:gilsenan@hinesandgilsenan.com)>  
**Sent:** Wednesday, November 30, 2022 10:56 AM  
**To:** [REDACTED] LT USCG SEC CHARLESTON (USA) <[REDACTED]>  
**Cc:** Karr Michael <[michael.karr@ntsb.gov](mailto:michael.karr@ntsb.gov)>  
**Subject:** [URL Verdict: Suspect][Non-DoD Source] BOW TRIUMPH - echo depth sounder

Dear Jennifer,

Please find the requested echo sounder documentation attached hereto. I am advised that the ship has two transducers, but only one is active at a time. Thank you very much.

Sincerely,

Ryan Gilsenan

HINES & GILSENAN LLC  
1535 Hobby Street, Suite 203D  
Charleston Navy Yard  
North Charleston, South Carolina 29405

W: [REDACTED]  
E: [REDACTED]  
T: [REDACTED] (24 hours)

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**From:** [REDACTED] LT USCG SEC CHARLESTON (USA) <[REDACTED]>  
**Sent:** Monday, November 28, 2022 15:56  
**To:** Ryan Gilsenan <[gilsenan@hinesandgilsenan.com](mailto:gilsenan@hinesandgilsenan.com)>  
**Cc:** Karr Michael <[michael.karr@ntsb.gov](mailto:michael.karr@ntsb.gov)>  
**Subject:** RE: echo depth sounder

Good afternoon Ryan,

We are following up again regarding the echo depth sounder readings.

First, is there any way that there was a second transducer on the BOW TRIUMPH?

Second, I would like some documentation for the echo depth sounder, as we will need to address some of the readings differing so greatly from the Army Corps soundings. If you could try to track down the manufacturer information for the equipment, any maintenance records, SMS procedures,

etc, that would be very helpful.

Very Respectfully,

LT [REDACTED]  
Chief, Investigations Division  
US Coast Guard Sector Charleston  
[REDACTED]  
Office: [REDACTED]  
Cell: [REDACTED]

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**From:** Ryan Gilsenan <[gilsenan@hinesandgilsenan.com](mailto:gilsenan@hinesandgilsenan.com)>  
**Sent:** Wednesday, November 23, 2022 11:36 AM  
**To:** [REDACTED] LT USCG SEC CHARLESTON (USA) <[REDACTED]>  
**Cc:** Karr Michael <[michael.karr@ntsb.gov](mailto:michael.karr@ntsb.gov)>  
**Subject:** [URL Verdict: Suspect][Non-DoD Source] RE: echo depth sounder

Dear Jennifer,

The explanation I received from owners, together with a page from the echo sounder manual is as follows:

The first number is the water depth below the aft transducer. The second number is the vessel's draft. It strikes me as possible there were some anomalies in the soundings.

	2003/12/01	13:05:00	038.6m/01.0m	35	20.02'N/135	45.15'E	15.1kt	008.0deg
	2003/12/01	13:05:00	038.6m/01.0m	35	20.02'N/135	45.15'E	15.1kt	008.0deg
	2003/12/01	13:05:00	038.6m/01.0m	35	20.02'N/135	45.15'E	15.1kt	008.0deg
	2003/12/01	13:05:00	038.6m/01.0m	35	20.02'N/135	45.15'E	15.1kt	008.0deg
M	2003/12/01	13:05:00	038.6m/01.0m	35	20.02'N/135	45.15'E	15.1kt	008.0deg
	Date	Time	Depth, Draft		Latitude	Longitude	Speed	Heading

## Depth data log

Sincerely,

Ryan Gilsenan

HINES & GILSENAN LLC  
 1535 Hobby Street, Suite 203D  
 Charleston Navy Yard  
 North Charleston, South Carolina 29405

W: [REDACTED]  
 E: [REDACTED]  
 T: [REDACTED] (24 hours)

**From:** [REDACTED]  
**To:** [REDACTED]  
**Subject:** RE: BOW TRIUMPH VDR Review  
**Date:** Tuesday, September 27, 2022 3:03:55 PM

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**From:** Ryan Gilsenan <gilsenan@hinesandgilsenan.com>  
**Sent:** Tuesday, September 13, 2022 6:44 PM  
**To:** [REDACTED] LT USCG SEC CHARLESTON (USA) [REDACTED] >  
**Subject:** [URL Verdict: Neutral][Non-DoD Source] RE: BOW TRIUMPH VDR Review

Jennifer,

The Master advises the following location of the echo sounder transducer on the bottom of the ship's hull:

Longitudinally: Even with the forward bulkhead of the accommodation house (i.e. directly below the windows of the navigation bridge).

Transversely: Approx. 0.3 meters to starboard of the keel.

Please let me know if you need anything further.

Sincerely,

Ryan Gilsenan

HINES & GILSENAN LLC  
1535 Hobby Street, Suite 203D  
Charleston Navy Yard  
North Charleston, South Carolina 29405

W: [REDACTED]  
E: [REDACTED]  
T: [REDACTED] (24 hours)