

**Cetacean and Sea Turtle Observations in
the Remote Mid-Atlantic (NW) Ocean**

Supplemental Data Table

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Supplemental Data Table

Sighting ID (includes repeat sightings)	Initial or subsequent	Vessel	Time (UTC)	Optics type	Reticle	Species	Sighting dist. (m)	PSO	Sighting cue	Min count	Max count	Best count	Juveniles/calves	Behavior state	Behavior event	Behavior change	Sighting description	Notes	Vessel GPS position	Sighting position	Sighting latitude	Sighting longitude	Perpendicular sighting distance (m)	Water depth at sighting (m)	Slope at sighting (degrees)	Distance sighting to closest shore (m)	Bathy res.	Map info.	Bft	Visibility distance (m)	Visibility quality	Glare severity	Vessel activity	Precipitation	Cloud cover	Airgun status
V1	Initial	Atlantis	2018-06-15T13:59:33.5	Naked eye		Atlantic spotted dolphin	20	Rachel Wachtendonk	Dorsal	3	4	3	0	Bow riding	Breach	None	Bow rode for short second off port side and then disappeared. Terra and Josh saw them off starboard side from bridge. Were also seen off the stern.	Josh put in effort line when I was on deck.	33 01 36.8 N, 59 08 48.4 W	33 01 36.9 N, 59 08 47.6 W	33.02692807	-59.14655994	2.392340317	-4604	0.611136536	513219.732	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	5	6	Moderate	Slight	Underway	Partly cloudy	30	Off
V10	Initial	Atlantis	2018-06-25T17:57:06.7	Naked eye		Unid. whale	2,000	Terra Hanks	Body	1	1	1	0	Travel		None	Saw a large, black, rotund shape break the surface of the water in my periphery . . . continued to watch.	Active seismic not a factor.	38 01 7.3 N, 38 01 58.7 W	38 02 12.0 N, 38 01 57.3 W	38.03666536	-38.03257145	1996.900983	-3644	1.006852339	606084.9177	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	9	Good	Slight	Operations	Partly cloudy	40	On
V10	Subsequent	Atlantis	2018-06-25T18:13:10.5	Naked eye		Unid. whale	1,500	Terra Hanks	Body	1	1	1	0	Travel		Dive	Saw the large black shape surface again out of my periphery and watched until Josh saw it again, and then he continued. We surmised it could be a minke.	Active seismic not a factor	38 01 8.7 N, 38 03 42.4 W	38 01 50.4 N, 38 03 10.7 W	38.03065437	-38.05295946	1340.996831	-3642	0.720722519	607987.0702	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	9	Good	Slight	Operations	Partly cloudy	40	On
V10	Subsequent	Atlantis	2018-06-25T18:14:35.3	Naked eye		Unid. whale	2,000	Joshua Domenico	Body	1	1	1	0	Travel		Dive	Spotted a dark body surface and disappear very quickly. Went to look for the animal further and could not find it again.	Active seismic not a factor	38 01 8.7 N, 38 03 51.2 W	38 02 13.5 N, 38 03 49.8 W	38.03707536	-38.06383311	1997.612275	-3642	0.720724205	608696.3233	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	9	Good	Slight	Operations	Partly cloudy	40	On
V100	Initial	Atlantis	2018-07-04T07:58:18.6	Naked eye		Unid. dolphin or porpoise	80	Terra Hanks	Splash	8	15	10	ND	Surface-active travel	Swim away	Direction of travel	Did not get a look at the bodies or head. Individuals remained under the water and would only surface for intervals of a short second or two. They were 1 to 4 body lengths apart; and when they would surface, they would create a lot of splashes, perhaps chasing fish?	No seismic activity	50 35 3.4 N, 38 59 56.0 W	50 35 5.9 N, 38 59 57.2 W	50.5849615	-38.99921182	5.037176564	-4108	0.597455651	1073791.902	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Good	None	Underway	Partly cloudy	30	Off
V101	Initial	Atlantis	2018-07-09T18:00:15.7	Naked eye		Pilot whale spp.	600	Terra Hanks	Splash	30	50	42	0	Surface-active travel with visible blows	Porpoising	Direction of travel	Long black torpedo-shaped whales with thick dark curved dorsals traveling in large group on surface. One to two body lengths apart on average traveling in a swath of approx 50 m.	Seismic active but were out of the zone and not observed feeding	51 44 52.5 N, 39 42 46.4 W	51 45 11.7 N, 39 42 42.1 W	51.75324756	-39.71168501	599.4279328	-3195	1.92264675	936171.8143	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	7	Moderate	Slight	Operations	Light fog	50	On
V102	Initial	Atlantis	2018-07-09T18:16:02.3	Naked eye		Unid. whale	2,500	Terra Hanks	Blow	2	2	2	ND	Surface-active travel with visible blows	Blow	Dive	2 tall skinny blows	Seismic no factor; too far away	51 45 26.7 N, 39 44 44.7 W	51 45 35.2 N, 39 42 34.6 W	51.75976778	-39.70961884	1836.622187	-3195	1.922759026	935493.8202	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	7	Moderate	Slight	Operations	Light fog	50	On
V103	Initial	Atlantis	2018-07-09T18:21:58.7	Naked eye		Unid. whale	4,000	Terra Hanks	Blow	2	4	4	ND	Surface-active travel with visible blows	Blow	Dive	4 short pillowy blows	Seismic no factor; too far away	51 45 51.8 N, 39 45 11.8 W	51 45 27.0 N, 39 41 46.4 W	51.75751215	-39.69622975	3432.785552	-3218	1.712343195	935935.855	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	7	Moderate	Slight	Operations	Light fog	50	On
V104	Initial	Atlantis	2018-07-09T19:58:28.4	Naked eye		Sperm whale	600	Rachel Wachtendonk	Blow	1	1	1	0	Surface-active travel with visible blows	Blow	None	Short puffy blows every 7 seconds. The blow was angled and low to the water. I saw the body of the whale with the squared head, dark grey body, and knuckles past the small triangular dorsal. The animals were probably 8 m in length. This individual was traveling in a different direction (parallel with vessel in opposite direction) than the other sperm whales so I made it a different sighting. I lost track of the animal after a few minutes to track the other whales	Seismic no factor; too far away	51 52 49.2 N, 39 38 45.0 W	51 53 5.7 N, 39 39 1.7 W	51.88490925	-39.65046588		-2966	1.445792365	924323.8617	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	7	Moderate	Slight	Operations	Light fog	60	On
V105	Initial	Atlantis	2018-07-09T19:59:28.4	Naked eye		Sperm whale	500	Rachel Wachtendonk	Blow	3	4	3	0	Surface-active travel with visible blows	Blow	None	I saw three more sperm whales all about 8 to 10 m in length. All were traveling directly away from the vessel. I saw two traveling close together (maybe 2 to 3 m apart) and the other was about 10 m away but traveling in the same direction. Dan thought he might have seen a 4th whale, but I only saw the three. They all had low puffy blows that veered to the left. I was able to see the squared heads of the animals and knuckles on the backs after the small triangular dorsals.	Seismic no factor; too far away	51 52 53.3 N, 39 38 40.7 W	51 53 8.8 N, 39 38 48.4 W	51.8857828	-39.64677956	356.6423361	-2995	1.853501344	922751.1734	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	7	Moderate	Slight	Operations	Light fog	60	On
V105	Subsequent	Atlantis	2018-07-09T20:05:28.4	Naked eye		Sperm whale	700	Rachel Wachtendonk	Blow	3	4	3	0	Surface-active travel with visible blows	Fluke up	Dive	I kept seeing the blows of the three whales every 7 to 10 seconds as they traveled away from the vessel. At 1705 h, I saw one of the whale's fluke and the others must have dove as well because I did not see them again.	Seismic no factor; too far away	51 53 18.5 N, 39 38 15.3 W	51 53 40.2 N, 39 38 26.0 W	51.89450386	-39.64055965	427.925183	-2995	1.853761648	921899.3986	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	7	Moderate	Slight	Operations	Light fog	60	On
V106	Initial	Atlantis	2018-07-09T21:07:00.2	Naked eye		Sperm whale	600	Joshua Domenico	Blow	1	1	1	0	Surface-active travel with visible blows	Blow	Dive	Saw a very misty and leftwards angled blow low and pillowy. Very distinct towards the left side.	Seismic no factor; too far away	51 55 36.9 N, 39 32 8.5 W	51 55 32.9 N, 39 31 37.7 W	51.92580448	-39.52712793	276.2128401	-3417	3.549520715	920253.5992	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	7	Moderate	Slight	Operations	Light fog	40	On
V107	Initial	Atlantis	2018-07-09T21:57:47.1	Naked eye		Pilot whale spp.	300	Joshua Domenico	Body	4	8	6	0	Surface-active travel	Swim away	None	Spotted very distinct looking broad at base with hook like dorsal fins. Blackish looking body with a melon style head.	Seismic no factor; too far away	51 54 18.4 N, 39 37 10.1 W	51 54 18.9 N, 39 37 25.8 W	51.90525279	-39.62384365	17.68737557	-3003	2.055226407	922517.8591	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	7	Moderate	Slight	Operations	Light fog	40	On
V108	Initial	Atlantis	2018-07-10T12:12:27.7	Naked eye		Pilot whale spp.	300	Joshua Domenico	Dorsal	3	4	3	ND	Surface-active travel	Porpoising	None	Josh and Kolby from Scripps spotted a herd of pilot whales off the port side of the vessel.	Josh was in the process of going to relieve Rachel and informed her of the sighting off the starboard side to keep her eyes on the animals to make sure they were not entering the zone.	51 38 1.6 N, 41 16 23.1 W	51 38 9.9 N, 41 16 15.0 W	51.63609036	-41.27084448		-4161	0.525086358	929774.5964	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	6	1	Poor	None	Operations	Light fog	100	On
V108	Subsequent	Atlantis	2018-07-10T12:17:39.9	Naked eye		Pilot whale spp.	100	Joshua Domenico	Body	15	23	19	ND	Surface-active travel	Swim to	Direction of travel	Kept eyes on animals and watched them move from the buffer zone to near the 100 m EZ.	A shutdown was called as the animals approached the EZ.	51 37 51.0 N, 41 17 0.3 W	51 37 53.8 N, 41 16 57.6 W	51.63160253	-41.28266212	60.61272273	-4158	0.634146835	931437.7616	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	6	1	Poor	None	Deployment	Light fog	100	On

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V109	Initial	Atlantis	2018-07-10T12:12:27.7	Naked eye		Unid. whale	150	Rachel Wachtendonk	Body	1	1	1	0	Travel	Unknown	Dive	Jim (AB) saw a whale dive in front of the ship. It did not fluke, and we were not able to ID it. I saw it for a second before it dove. It was dark grey and roughly 12 m in length. It was traveling away from the boat when it dove.	Animal was within the buffer zone and was on a path to leave the buffer zone.	51 38 1.6 N, 41 16 23.1 W	51 37 59.3 N, 41 16 30.0 W	51.63313501	-41.27500895	31.8010665	-4161	0.525084433	930064.7418	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	6	1	Poor	None	Operations	Light fog	100	On
V11	Initial	Atlantis	2018-06-25T17:59:49.6	Naked eye		Atlantic white-sided dolphin	4,000	Joshua Domenico	Body	3	3	3	0	Surface-active travel	Breach	None	Saw three splashes and one HUGE breaching event. Probably the highest breach I have witnessed from a dolphin. Distinctively saw a white side to the animal and with a smaller pod I can say most likely on the species. They appeared to be traveling.	Active seismic not a factor	38 03 40.9 N, 38 00 28.6 W	38 05 50.4 N, 38 00 25.8 W	38.09733072	-38.00715723	446.5694739	-3806	1.894123698	602056.4417	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	9	Good	Slight	Operations	Partly cloudy	40	On
V110	Initial	Atlantis	2018-07-13T09:01:10.0	Naked eye		Unid. dolphin or porpoise	20	Terra Hanks	Body	1	1	1	ND	Surface-active travel	Swim To	Dive	Unid. dolphin small with gray body and crescent-shaped dorsal fin.	Amy (1st mate) and Lance (AB) spotted the dolphin at 0546 h, just before I arrived, and they described the sighting to me as I recount here.	42 53 7.4 N, 51 24 25.5 W	42 53 6.8 N, 51 24 25.7 W	42.88521713	-51.40714555	18.1432146	-1443	2.513344919	440773.489	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	5	Moderate	Slight	Underway	Partly cloudy	60	Off
V111	Initial	Atlantis	2018-07-14T20:27:22.6	Naked eye		Atlantic white-sided dolphin	3,500	Terra Hanks	Splash	50	100	75	ND	Surface-active travel	Porpoising	None	Small gray and white dolphin fast traveling in a huge group with 0 to 4 body lengths spacing in a swath of approx. 500 m		41 49 34.5 N, 59 38 43.0 W	41 51 27.0 N, 59 38 24.5 W	41.85749986	-59.64012802	3375.143719	-4872	0.220358586	233039.3429	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	5	Good	Moderate	Underway	Partly cloudy	50	Off
V112	Initial	Atlantis	2018-07-15T11:40:15.4	Naked eye		Short-beaked common dolphin	10	Terra Hanks	Body	8	8	8	ND	Bow riding	Bow riding	Dive	Dolphins were bow riding close to one another	Lance and PJ observed dolphins when I was not present in the bridge. Their note reads as follows: 8 cominias dolphins with cute white sides 0740 41-19.7N 63-29.2W — I clarified -cominias- as common dolphins, and PJ concurred and said he was a self-proclaimed bad speller.	41 19 49.1 N, 63 28 28.1 W	41 19 49.1 N, 63 28 28.5 W	41.33029423	-63.47458261	0.156865851	-3785	0.59491141	298007.9575	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	6	Good	Slight	Underway	Partly cloudy	60	Off
V113	Initial	Atlantis	2018-07-15T12:49:10.2	Naked eye		Unid. whale	6,000	Terra Hanks	Blow	1	3	2	ND	Surface-active travel with visible blows	Blow	Dive	Tall columnar blows, 2 then 3 then 2 in quick succession. After one min, there were 2 then 1 then 1 then 3 in 40 sec. the blows were 200 to 500 m apart.		41 17 48.7 N, 63 43 59.3 W	41 15 36.2 N, 63 47 8.3 W	41.26005487	-63.78564836	3563.680239	-3847	0.716750767	289952.4701	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	6	Good	Slight	Underway	Partly cloudy	50	Off
V114	Initial	Atlantis	2018-07-15T19:14:25.6	Naked eye		White-beaked dolphin	100	Terra Hanks	Body	4	6	5	0	Surface-active travel	Bow riding	Dive	Large chunky, tall falcate dorsal, mostly gray with a swath of pale white, short head, short beak.		41 10 56.0 N, 65 03 52.5 W	41 10 54.1 N, 65 03 56.0 W	41.18169806	-65.06556543	37.84616013	-3315	1.224676317	252614.7616	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	1	Poor	None	Underway	Light fog	100	Off
V115	Initial	Atlantis	2018-07-15T19:26:29.3	Naked eye		Loggerhead turtle	1	Terra Hanks	Body	1	1	1	1	Rest		None	Small dessert plate-sized brown mottled turtle		41 10 36.6 N, 65 06 15.0 W	41 10 36.7 N, 65 06 15.0 W	41.17685018	-65.10417434	0.96683208	-3320	1.372625308	254199.5538	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	0	Poor	None	Underway	Heavy fog	100	Off
V116	Initial	Atlantis	2018-07-16T10:58:53.8	Naked eye		Unid. turtle	1	Terra Hanks	Body	1	1	1	0	Rest		None	Lance (AB) saw small turtle on the port bow.		40 45 0.3 N, 68 05 8.2 W	40 45 0.3 N, 68 05 8.2 W	40.7500919	-68.08561507	0.385583995	-71	0.140611954	167960.0725	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	0	Poor	None	Underway	Heavy fog	100	Off
V117	Initial	Atlantis	2018-07-16T11:07:35.4	Naked eye		Short-beaked common dolphin	10	Terra Hanks	Body	8	12	10	0	Surface-active travel		Dive	One cream gray and white sided dolphin was swimming right next to the boat and then joined up with 8 more who were swimming away from us. They were swimming in pairs about 2 to 4 body lengths apart.		40 44 45.0 N, 68 06 56.2 W	40 44 45.4 N, 68 06 56.2 W	40.74593626	-68.11561368	9.943934475	-73	0.10132948	165762.4995	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	0	Poor	None	Underway	Heavy fog	100	Off
V119	Initial	Atlantis	2018-07-16T16:54:56.0	Naked eye		Unid. marine mammal	1,000	Terra Hanks	Splash	1	1	1	0	Surface-active travel	Breach	None	Terra saw huge breathing animal off in the distance.		40 35 0.8 N, 69 12 8.3 W	40 34 58.0 N, 69 12 50.7 W	40.58277892	-69.21409143	135.3697286	-61	0.205327084	98896.06436	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	1	Moderate	None	Underway	Light fog	90	Off
V12	Initial	Atlantis	2018-06-25T18:01:51.0	Naked eye		Unid. dolphin or porpoise	200	Terra Hanks	Body	1	1	1	0	Travel		Dive	Dolphin fin surfaced and descended straight away. Did not get a good enough glimpse to determine species. Additionally, it did not surface again.	Active seismic not a factor	38 01 8.0 N, 38 02 29.3 W	38 01 13.9 N, 38 02 26.0 W	38.02053946	-38.0405496	188.5515908	-3614	0.89671706	607268.341	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	9	Good	Slight	Operations	Partly cloudy	40	On
V120	Initial	Atlantis	2018-07-16T16:53:41.0	Naked eye		Leatherback turtle	15	Joshua Domenico	Body	1	1	1	0	Mill	Unknown	Dive	Terra also saw a leatherback turtle.		40 35 3.8 N, 69 11 53.8 W	40 35 3.5 N, 69 11 54.4 W	40.58431862	-69.19843419	8.975216817	-68	0.223679242	100524.1134	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	1	Moderate	None	Underway	Light fog	90	Off
V121	Initial	Atlantis	2018-07-16T19:54:53.4	Naked eye		Leatherback turtle	5	Terra Hanks	Body	1	1	1	0	Surface-active travel	Swim away	Dive	Large-ridged turtle popped up across the bow and then moved to the portside of the boat.		40 37 49.9 N, 69 47 22.3 W	40 37 49.9 N, 69 47 22.5 W	40.63052389	-69.78958365	1.559187358	-56	0.061832775	71113.82836	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	8	Good	Moderate	Underway	Partly cloudy	50	Off
V122	Initial	Atlantis	2018-07-16T22:40:07.6	Naked eye		Minke whale	15	Terra Hanks	Body	1	1	1	0	Travel	Swim away	Dive	Terra and Rachel saw a body with a hooked dorsal come out of the water three times, swimming away from the boat. No blow when it surfaced. It looked to be 7 m in length.		40 37 41.8 N, 70 18 6.8 W	40 37 41.6 N, 70 18 7.3 W	40.62821586	-70.30203809	8.939169038	-56	0.050650288	71897.09713	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	8	Good	Moderate	Underway	Partly cloudy	50	Off
V13	Initial	Atlantis	2018-06-25T17:59:03.9	Naked eye		Atlantic white-sided dolphin	3,000	Terra Hanks	Body	3	3	3	0	Surface-active travel		None	Multiple breaching and surfacing events occurred individuals were spread out, and I did not get a good view of their bodies or heads as they were traveling fast, but I did see white underside on one breach leading me to think Atlantic white-sided. I saw a group travel away from our direction of travel, and Josh saw a group travel with our direction of travel so they may have split up or they may be two different groups.	Active seismic not a factor	38 03 40.9 N, 38 00 28.6 W	38 05 18.0 N, 38 00 24.3 W	38.08832654	-38.00675868	386.9060076	-3795	1.857217051	603323.6756	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	9	Good	Slight	Operations	Partly cloudy	40	On
V13	Subsequent	Atlantis	2018-06-25T18:06:13.1	Naked eye		Atlantic white-sided dolphin	8,000	Terra Hanks	Body	6	6	6	0	Surface-active travel	Breach	None	Saw them again super surface active and fast traveling away from our direction of travel.	Active seismic not a factor	38 01 8.5 N, 38 02 57.7 W	38 04 8.3 N, 37 59 1.0 W	38.06898608	-37.98361708	5234.760201	-3814	2.014973097	600955.7864	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	9	Good	Slight	Operations	Partly cloudy	40	On

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V14	Initial	Atlantis	2018-06-25T18:37:02.2	Naked eye		Unid. dolphin or porpoise	4,000	Rachel Wachtendonk	Splash	3	4	3	0	Surface-active travel		None	Four medium splashes over 5 min, very distinct from the surrounding glassy water. Small group of dolphins seems most likely, splashes very similar to dolphin groups spotted earlier. Too far away to get species ID.	Active seismic not a factor. Terra took down notes about sighting as Rachel watched and dictated.	38 01 8.1 N, 38 06 15.9 W	38 03 12.0 N, 38 05 27.8 W	38.05332027	-38.09105845	3910.986575	-3682	0.812691481	610472.5976	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	9	Good	Slight	Operations	Partly cloudy	35	On
V15	Initial	Atlantis	2018-06-25T20:43:21.3	Naked eye		Atlantic white-sided dolphin	450	Terra Hanks	Body	2	2	2	0	Surface-active travel	Breach	Dive	2 pudgy white-bellied acrobatic fast traveling dolphins made two leaps and didn't surface again	Active seismic not a factor	38 01 7.3 N, 38 20 6.3 W	38 00 54.2 N, 38 19 58.2 W	38.01505594	-38.3328364	385.2556251	-3858	0.324618721	631990.91	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	9	Good	Slight	Operations	Partly cloudy	30	On
V16	Initial	Atlantis	2018-06-25T21:11:13.8	Naked eye		Unid. marine mammal	700	Rachel Wachtendonk	Splash	1	2	1	0	Unknown		None	Saw splash out of corner of my eye. Thought it might be a dolphin; Josh said he might have seen a blow. Similar to other splashes I have seen today. Only saw once.		38 01 10.1 N, 38 23 6.9 W	38 00 50.5 N, 38 23 21.3 W	38.01402915	-38.3892388	582.7565833	-3848	0.144551711	636766.5529	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	9	Good	Slight	Operations	Partly cloudy	30	On
V17	Initial	Atlantis	2018-06-26T16:24:17.6	Naked eye		Atlantic spotted dolphin	50	Rachel Wachtendonk	Body	6	10	8	0	Travel		None	Saw the group surface twice headed aft of the ship. Lost track of them after that. Not sighted again. Moved in a closely knit group. No white water in travel or surface events like breaching.	We are clearing for the guns, but it is an unofficial clear; we are extending the clear 15 min for the dolphin sighting. By unofficial clear, I mean that they haven't asked for the 30 min yet but are in the process of deploying gear, and we started so they can get going as soon as possible when ready.	38 22 16.2 N, 37 58 39.9 W	38 22 15.8 N, 37 58 37.8 W	38.37104455	-37.97718016	34.84574057	-3950	0.159532092	591834.7762	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	5	Good	Moderate	Deployment	Partly cloudy	70	Off
V18	Initial	Atlantis	2018-06-26T17:47:31.5	Naked eye		Unid. turtle	15	Rachel Wachtendonk	Body	1	1	1	0	Travel		Direction of travel	Medium-sized turtle. Saw right off the side of the boat. Erratic direction changes; no definite course. Floated past the boat.	Gear is being deployed so array not turned on.	38 22 42.6 N, 37 59 7.5 W	38 22 42.5 N, 37 59 8.1 W	38.3784842	-37.98559656	2.436863066	-3952	0.250556257	592360.2598	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	5	Good	Severe	Deployment	Partly cloudy	35	Off
V19	Initial	Atlantis	2018-06-27T11:53:22.3	Naked eye		Atlantic spotted dolphin	10	Rachel Wachtendonk	Body	4	8	6	0	Travel		None	Group of dolphins swam directly at bow of boat. Observed two turn to bow ride. Group surfaced 4 times, heading to the stern of the ship. Lost sight of them after that. Continued to scan for several minutes but could not spot them. They were traveling together but spaced apart (multiple body lengths between animals). Not creating white water as they traveled. About 2 m long. Dark grey with no white streaks on sides. Not robust enough to be a bottlenose. Hard to discern spots from my vantage point. Tall dorsal fin and long beaks. All of that led me to believe they were Atlantic spotted dolphins.	Guns on but dolphins traveling directly at the vessel are not means for a shutdown.	40 32 14.5 N, 37 37 1.7 W	40 32 14.8 N, 37 37 1.5 W	40.53744451	-37.61708786	1.634981488	-4450	1.693068706	552814.7874	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	3	Moderate	None	Operations	Overcast	95	On
V2	Initial	Atlantis	2018-06-15T12:17:11.9	Naked eye		Atlantic white-sided dolphin	5		Body	2	2	2	0	Bow riding		Other	Bow rode and when observer looked at it, it swam away.	Was seen by AB Lance and reported to Terra at 1549 h. Terra recorded based on the information he provided. Time was not exact, and species is a guess based on description provided.	32 59 39.6 N, 59 32 46.6 W	32 59 39.6 N, 59 32 46.4 W	32.99434715	-59.54621054	0.184178613	-4937	0.936338582	475779.6251	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	7	Good	Slight	Underway	Partly cloudy	35	Off
V20	Initial	Atlantis	2018-06-27T15:45:59.9	Naked eye		Atlantic spotted dolphin	80	Terra Hanks	Splash	8	19	9	0	Surface-active travel		None	Small spotted light gray dolphins with a short curved dorsal moving at a rapid pace across the bow of the boat and then astern and away. Surface active travel but they did not fully leave the water.	Seismic activity not a factor for travelling <i>Stenella</i>	41 00 22.7 N, 37 31 32.5 W	41 00 25.0 N, 37 31 34.1 W	41.00694437	-37.52613783	36.20722804	-4228	1.635169232	556849.7759	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Moderate	Slight	Operations	Partly cloudy	25	On
V21	Initial	Atlantis	2018-06-27T15:49:43.3	Naked eye		Short-beaked common dolphin	50	Terra Hanks	Body	1	1	1	0	Surface-active travel	Breach	None	One distinctly white and gray and slightly brown striped pattern 6 to 7 ft long dolphin with a pudgy girth came leaping out of the water three times, swam under the boat, and back out the other side with another 2 leaps before diving very fast travel. It was alone.	Seismic activity not a factor for travelling <i>Delphinus</i>	41 00 49.6 N, 37 31 28.3 W	41 00 50.5 N, 37 31 30.0 W	41.01402723	-37.52500257	44.49033868	-4221	1.853410552	556968.5621	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Moderate	Slight	Operations	Partly cloudy	25	On
V21	Subsequent	Atlantis	2018-06-27T15:51:57.3	Naked eye		Short-beaked common dolphin	1	Terra Hanks	Body	1	1	1	0	Surface-active travel	Breach	None			41 01 5.9 N, 37 31 25.5 W	41 01 5.9 N, 37 31 25.6 W	41.01830626	-37.5237687	0.999877646	-4221	1.853524309	556996.5857	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Moderate	Slight	Operations	Partly cloudy	25	On
V22	Initial	Atlantis	2018-06-27T16:08:40.1	Naked eye		Loggerhead turtle	5	Joshua Domenico	Body	1	1	1	0	Surface-active mill	Unknown	None	Saw a dark orangish-brown looking mass moving through the water. Identified it as a sea turtle. Terra confirmed with the binoculars that it was a sea turtle. She surmised loggerhead due to color and thick ridges on the back and head. It was a young turtle as it was about the size of a dinner plate, maybe a little smaller. It was approximately the color of Saragassa seaweed. We then called for a shutdown 3 times and got no response due to equipment malfunction. Terra observed the turtle leaving the 100 m exclusion zone.		41 03 7.9 N, 37 31 0.2 W	41 03 8.0 N, 37 31 0.4 W	41.05221433	-37.51678373	4.416379936	-4292	2.665352469	557459.175	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Moderate	Slight	Operations	Partly cloudy	25	On
V23	Initial	Atlantis	2018-06-27T21:55:14.8	Naked eye		Short-beaked common dolphin	1,500	Joshua Domenico	Splash	4	5	4	ND	Surface-active travel	Breach	None			41 07 52.0 N, 36 43 14.4 W	41 08 21.2 N, 36 42 22.9 W	41.13921916	-36.70635644	867.6408889	-4407	1.05203629	495778.0873	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Moderate	Moderate	Operations	Partly cloudy	25	On

Cetacean and Sea Turtle Occurrences in the Remote Mid-Atlantic

V23	Subsequent	Atlantis	2018-06-27T21:55:42.0	Naked eye		Short-beaked common dolphin	1,000	Joshua Domenico	Body	10	12	11	ND	Surface-active travel	Breach	None	Saw a splash and then saw multiple splashes. Looked through the binoculars at that point and saw a group of acrobatic dolphins. Through further observation, I could determine species from the pale yellow strip and their performance; also with a larger group.	A lot of the animals that we have seen today were during seismic activities. There usually is only one sighting of them then they disappear. No mitigation measures had to take place through IHA stipulations.	41 07 52.1 N, 36 43 9.9 W	41 08 21.9 N, 36 42 53.1 W	41.1394132	-36.71474078	901.3795535	-4407	1.05203925	496446.1088	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Moderate	Moderate	Operations	Partly cloudy	25	On
V24	Initial	Atlantis	2018-06-27T22:25:53.2	Naked eye		Short-beaked common dolphin	1	Rachel Wachtendonk	Body	20	30	25	0	Bow riding		Direction of travel	A large group of common dolphins approached the bow of the boat. Most of them started to bow ride for about 5 min before heading towards the stern of the boat. Traveling close together and could hear whistling vocalizations. The group bow riding slowly broke off, until only one individual was bow riding (about 8 min). Lost track of them in the low light after.	Seismic activity not a factor for traveling <i>Delphinus</i>	41 07 53.4 N, 36 38 7.1 W	41 07 53.4 N, 36 38 7.0 W	41.13151001	-36.63528444	0.088264538	-4473	0.750662211	489889.273	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Moderate	Moderate	Operations	Partly cloudy	25	On
V25	Initial	Atlantis	2018-06-28T07:45:15.8	Naked eye		Atlantic spotted dolphin	50	Terra Hanks	Body	5	5	5	ND	Travel		None	Small falcate dorsal but body never exited the water, and the Bft made it difficult to see any more. I speculate they were Atlantic spotted due to the nature of their movement, relative size, and persistence of their species in our data thus far. They crossed our bow and continued on their course never altering.	Seismic operations underway no factor for <i>Stenella</i> traveling. Amy and Lance notified me of the dolphins when I was entering a line in <i>Mysticetus</i> . I went into the bridge and saw them.	41 27 52.3 N, 37 17 31.7 W	41 27 51.5 N, 37 17 29.8 W	41.4643093	-37.29162315	24.80858655	-4452	0.34459624	554240.7139	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	5	Moderate	None	Operations	Overcast	100	On
V25	Subsequent	Atlantis	2018-06-28T07:46:09.6	Naked eye		Atlantic spotted dolphin	10	Terra Hanks	Body	5	5	5	ND	Travel		None			41 27 52.3 N, 37 17 22.5 W	41 27 52.4 N, 37 17 22.1 W	41.46454728	-37.28947668	2.735842263	-4452	0.344597006	554083.5786	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	5	Moderate	None	Operations	Overcast	100	On
V26	Initial	Atlantis	2018-06-28T08:52:08.7	Naked eye		Unid. whale	5,000	Terra Hanks	Splash	1	1	1	ND	Surface-active travel	Breach	None	Large V-shaped splash seen by myself and Amy		41 27 51.4 N, 37 06 10.4 W	41 27 59.8 N, 37 02 34.6 W	41.46661985	-37.04295093	121.1969354	-4285	0.594958686	535086.1783	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	5	Moderate	None	Operations	Overcast	100	On
V27	Initial	Atlantis	2018-06-28T09:21:18.6	Naked eye		Unid. whale	400	Terra Hanks	Blow	1	1	1	ND	Travel		Dive	Light blow reaching approx 4 ft into air followed by a visual on a small gray unscarred triangle-shaped low profile dorsal fin. No other clues therefore I am unsure on the exact species of whale. Maybe a beaked whale. We saw a breach in the same area from 4 km away about 30 min prior so it could potentially be the same whale as V26 but there is no knowing. I watched for another blow for 12 min until I was relieved by Rachel and did not see anything.	Seismic activity but no shutdown as it was out of the exclusion zone and moving even further away as seen by its direction of travel. -	41 27 50.5 N, 37 01 8.9 W	41 27 57.6 N, 37 00 54.4 W	41.46598921	-37.01511341	213.2021394	-4291	0.850066243	532913.1324	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	5	Moderate	None	Operations	Overcast	100	On
V28	Initial	Atlantis	2018-06-28T11:19:02.3	Naked eye		Short-beaked common dolphin	80	Rachel Wachtendonk	Body	10	20	15	0	Travel	Breach	None	Saw group of dolphins approaching vessel—many jumping clear out of the water when porpoising. Animals pretty robust, about 2 m long with tall dorsal. Clear dark cape, brown/tan sides, light belly, light pectoral flippers, and light streak on face between eyes.		41 27 55.3 N, 36 42 38.2 W	41 27 53.1 N, 36 42 36.4 W	41.46475282	-36.7100982	66.09820451	-4096	1.332127353	509457.1398	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	5	Moderate	None	Operations	Overcast	100	On
V28	Subsequent	Atlantis	2018-06-28T11:20:09.2	Naked eye		Short-beaked common dolphin	1	Rachel Wachtendonk	Body	10	20	15	0	Bow riding		Dive	I ran down to the lower deck to see a group of about 5 to 8 bow riding. Observed the group to bow ride until 0825 h, when they then swam towards the stern of the ship and I lost sight of them in the Beaufort state. I assumed they dove because I did not see them again behind the boat. I was able to get a short video of them bow riding on my cell phone.	Seismic not a factor for traveling <i>Delphinus</i>	41 27 55.2 N, 36 42 27.5 W	41 27 55.2 N, 36 42 27.5 W	41.46532799	-36.70762828	0.037596177	-4096	1.332138592	509294.174	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	5	Moderate	None	Operations	Overcast	100	On
V29	Initial	Atlantis	2018-06-28T15:49:33.8	Naked eye		Blue whale	4,000	Terra Hanks	Blow	1	1	1	ND	Travel		None	Enormous blow approx 4 km away; considered a blue whale. I did not see any body. Only saw one blow because there was a simultaneous sighting at the bow, but it turned out to be a shark.	Seismic not a factor	41 22 13.8 N, 36 45 57.5 W	41 21 17.0 N, 36 48 32.5 W	41.35471591	-36.80903956	3526.932666	-4353	1.561434679	512333.1915	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	5	Moderate	None	Operations	Partly cloudy	50	On
V3	Initial	Atlantis	2018-06-18T09:41:50.5	Naked eye		Atlantic spotted dolphin	40	Terra Hanks	Dorsal	22	25	22	2	Surface-active travel	Blow	Direction of travel	They came closer to the boat and array as they traveled. This was the closest they came.		34 04 32.5 N, 49 40 46.1 W	34 04 32.7 N, 49 40 44.5 W	34.07576031	-49.67903656	1.561482179	-4890	3.578646383	1427256.78	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Good	Moderate	Operations	Partly cloudy	65	On
V3	Subsequent	Atlantis	2018-06-18T09:41:59.6	Naked eye		Atlantic spotted dolphin	150	Terra Hanks	Dorsal	22	25	22	2	Surface-active travel	Breach	Direction of travel	Multiple breaching events. Travel close together. One individual did a complete flip. They traveled fast and made a few erratic movements but overall appeared disinterested in our vessel and the seismic array. I saw 2 non-spotted-slightly smaller individuals suggesting juveniles.	I saw the dorsal of one individual, and it was traveling towards the ship then 7 more individuals popped up and they moved in a direction closer to the boat and then moved aft and then 9 more appeared to come from the original direction of the group.	34 04 32.8 N, 49 40 44.7 W	34 04 28.0 N, 49 40 43.8 W	34.07443751	-49.67882597	149.9325947	-4890	3.578645996	1427404.93	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Good	Moderate	Operations	Partly cloudy	65	On
V30	Initial	Atlantis	2018-06-28T15:57:11.9	Naked eye		Unid. whale	2,000	Terra Hanks	Blow	3	3	3	ND	Travel		Dive	Saw 3 powerful but short V-shaped blows but no body.	Seismic not a factor	41 21 8.7 N, 36 46 6.8 W	41 20 15.1 N, 36 46 55.0 W	41.33751671	-36.78193876	922.8744245	-4393	1.220926501	509521.2646	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	5	Moderate	None	Operations	Partly cloudy	50	On
V30	Subsequent	Atlantis	2018-06-28T15:59:20.6	Naked eye		Unid. whale	2,000	Terra Hanks	Blow	1	1	3	ND	Travel		Dive	Saw one powerful but short V-shaped blow but no body.	Seismic not a factor	41 20 50.5 N, 36 46 9.4 W	41 20 22.1 N, 36 47 26.9 W	41.33948059	-36.79079997	1752.651304	-4393	1.220933573	510289.228	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	5	Moderate	None	Operations	Partly cloudy	50	On

V30	Subsequent	Atlantis	2018-06-28T16:03:25.5	Naked eye		Unid. whale	2,500	Terra Hanks	Blow	1	1	3	ND	Travel		Dive	Saw one powerful but short V-shaped blow but no body	Seismic not a factor -	41 20 15.9 N, 36 46 14.1 W	41 20 20.1 N, 36 48 1.7 W	41.33892895	-36.80047702	2499.994603	-4402	1.405368148	511016.6269	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	5	Moderate	None	Operations	Partly cloudy	50	On
V30	Subsequent	Atlantis	2018-06-28T16:06:33.4	Naked eye		Unid. whale	700	Terra Hanks	Blow	2	2	3	ND	Travel		Dive	Saw 2 powerful but short V-shaped blows but no body	Seismic not a factor -	41 19 50.2 N, 36 46 18.5 W	41 20 3.5 N, 36 46 42.9 W	41.33429935	-36.77857793	599.2721087	-4376	1.118722386	509127.8067	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	5	Moderate	None	Operations	Partly cloudy	50	On
V31	Initial	Atlantis	2018-06-28T16:18:38.4	Naked eye		Unid. whale	200	Terra Hanks	Dorsal	1	1	1	ND	Travel		Dive	Was on the other side of the boat looking for V30 and saw a dorsal. Then, Joanna came up and told me about the whale. She saw the back and said it was way bigger than a dolphin and approx 2 boat lengths away (~200 m). She said it was grayish brown, and I saw the same color on the fin. When I went over to observe, I looked aft of the boat (same direction of travel as the whale) and saw another blow 700 m away (V32).	Seismic not a factor but monitoring movement to determine if shutdown is needed. Did not see whale again.	41 18 12.3 N, 36 46 37.9 W	41 18 6.3 N, 36 46 34.6 W	41.30175417	-36.77627143	105.7614858	-4413	1.526913656	507615.3014	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	5	Moderate	None	Operations	Partly cloudy	50	On
V32	Initial	Atlantis	2018-06-28T16:20:49.7	Naked eye		Unid. whale	700	Terra Hanks	Blow	1	1	1	ND	Travel		Dive	4 ft blow but no body shown.	Seismic not a factor	41 17 54.2 N, 36 46 41.4 W	41 18 12.3 N, 36 46 23.2 W	41.30342699	-36.77312009	355.841536	-4413	1.526950496	507438.3263	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	5	Moderate	None	Operations	Partly cloudy	50	On
V33	Initial	Atlantis	2018-06-29T07:00:35.1	Naked eye		Unid. whale	700	Terra Hanks	Blow	1	1	1	ND	Travel		Dive	3 to 4 ft blow seen but no body. Continued to watch but not seen again. Assuming it dove and through a group decision we concluded that we will put dive if animal not seen again.	Seismic not a factor	41 28 12.2 N, 36 41 26.1 W	41 28 33.3 N, 36 41 15.3 W	41.47592678	-36.68758219	431.2739047	-4064	1.258729348	508239.2481	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	6	Good	None	Operations	Partly cloudy	30	On
V34	Initial	Atlantis	2018-06-29T07:29:50.1	Naked eye		Unid. whale	1,500	Terra Hanks	Blow	1	1	1	ND	Unknown		Dive	Large blow (6 to 8 ft?) seen but dissipated quickly in this wind. No body seen proceeding blow. Assuming the animal dove.	Seismic not a factor	41 30 46.1 N, 36 39 0.5 W	41 31 34.5 N, 36 38 54.9 W	41.52625777	-36.64858092	339.4013167	-4100	1.148402355	507571.2113	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	6	Good	Slight	Operations	Clear	25	On
V34	Subsequent	Atlantis	2018-06-29T07:34:58.8	Naked eye		Unid. whale	1,000	Terra Hanks	Blow	1	1	1	ND	Unknown		Dive	Lance (AB on watch) saw the second blow and described it the same as above. Five minutes passed between blows. I continued to watch and did not see more. Perhaps it resurfaced in the direct glare of the sun which has become quite bright as the projected resurfacing area given line of travel.	Seismic not a factor	41 31 27.6 N, 36 39 6.9 W	41 31 54.1 N, 36 38 42.1 W	41.531702	-36.64503594	656.7177136	-4141	1.249989553	507555.1118	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	6	Good	Slight	Operations	Clear	25	On
V35	Initial	Atlantis	2018-06-29T08:08:37.5	Naked eye		Blue whale	3,000	Terra Hanks	Blow	1	1	1	ND	Unknown	Blow	Dive	Enormous blow close to the horizon	Seismic not a factor	41 35 54.3 N, 36 39 55.7 W	41 36 35.3 N, 36 37 58.0 W	41.60980079	-36.63277988	2916.865324	-4299	2.233267127	510319.5976	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	6	Good	Slight	Operations	Clear	25	On
V36	Initial	Atlantis	2018-06-29T08:10:05.4	Naked eye		Sperm whale	3,000	Terra Hanks	Blow	3	9	7	ND	Travel		Dive	Saw one large pillow-shaped blow then a few more and even more 7 in total spread out over about 500 m squared area.	Seismic not a factor; too far away	41 36 5.7 N, 36 39 58.7 W	41 36 40.5 N, 36 37 57.5 W	41.61125503	-36.63262559	2912.242165	-4299	2.233301234	510377.9129	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	6	Good	Slight	Operations	Clear	25	On
V36	Subsequent	Atlantis	2018-06-29T08:12:42.6	Naked eye		Sperm whale	2,500	Terra Hanks	Blow	3	9	7	ND	Unknown		Dive	Same as above only slightly closer	Seismic not a factor; too far away	41 36 26.0 N, 36 40 4.0 W	41 36 55.0 N, 36 38 23.0 W	41.61527011	-36.63971517	2441.092529	-4340	2.880661092	511102.4	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	6	Good	Slight	Operations	Clear	25	On
V36	Subsequent	Atlantis	2018-06-29T08:14:43.1	Naked eye		Sperm whale	3,000	Terra Hanks	Blow	3	9	7	ND	Unknown		Dive			41 36 41.5 N, 36 40 6.8 W	41 36 51.6 N, 36 37 57.6 W	41.61433355	-36.63267056	2991.421278	-4340	2.880626453	510529.3604	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	6	Good	Slight	Operations	Clear	25	On
V36	Subsequent	Atlantis	2018-06-29T08:15:43.8	Naked eye		Sperm whale	2,500	Terra Hanks	Blow	3	9	7	ND	Unknown		Dive			41 36 49.4 N, 36 40 8.6 W										4	6	Good	Slight	Operations	Clear	25	On
V37	Initial	Atlantis	2018-06-29T08:21:32.3	Naked eye	0.2	Short-beaked common dolphin	20	Terra Hanks	Dorsal	3	5	4	0	Bow riding	Breach	Direction of travel	Lance (AB on watch) saw a dolphin heading to bow ride and told me at the same time I saw the blow at 700 m dolphins were white gray and yellow stripes associated with common dolphins, and they were about 6 ft long and moving very fast back and forth under the bow of the boat. Very little surface activity.	Seismic not a factor for traveling or bow riding <i>Delphinus</i>	41 37 32.7 N, 36 40 18.1 W	41 37 32.4 N, 36 40 18.9 W	41.62567662	-36.67191507	19.6186614	-4249	1.343891186	514016.2302	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	6	Good	Slight	Operations	Clear	25	On
V38	Initial	Atlantis	2018-06-29T08:22:39.8	Naked eye		Unid. whale	700	Terra Hanks	Blow	1	1	1	ND	Travel		Dive	Generic whale blow—4 ft classic blow shape; no body seen.	Seismic not a factor; too far away	41 37 40.9 N, 36 40 19.7 W	41 37 54.5 N, 36 39 55.5 W	41.63181677	-36.6654043	606.78256	-4291	1.882979413	513823.8292	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	6	Good	Slight	Operations	Clear	25	On
V39	Initial	Atlantis	2018-06-29T08:25:49.8	Naked eye		Blue whale	7,000	Terra Hanks	Blow	1	1	1	ND	Unknown		None	Saw an enormous blow on the horizon. Definitely a blow and not a breach or wave spray. It was columnar and tall.	Seismic not a factor; too far away	41 38 5.4 N, 36 40 24.2 W	41 41 38.4 N, 36 38 40.4 W	41.69398732	-36.64454239	3021.255656	-4452	0.970352114	515307.0195	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	6	Good	Slight	Operations	Clear	25	On
V4	Initial	Atlantis	2018-06-18T17:32:24.6	Fujinon 7 x 50 bridge	0.2	Unid. whale	4,941	Terra Hanks	Splash	1	1	1	ND	Unknown	Breach		Saw an enormous V wave splash on the horizon.	Was looking through the binoculars and saw an enormous splash (whale breach?), and I continued to watch and saw nothing more. There are no other boats around nor are there clouds (potential waterspot?) or birds diving. The AB kept watching at 1 point port bow, but he didn't see anything more either.	33 59 3.5 N, 48 34 46.8 W	33 56 24.1 N, 48 35 3.6 W	33.94004166	-48.58433669	193.9908924	-4163	1.394078679	127397.6553	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	8	Good	Slight	Operations	Overcast	75	On
V40	Initial	Atlantis	2018-06-29T08:34:16.8	Naked eye		Unid. whale	1,750	Terra Hanks	Blow	1	3	2	ND	Travel		Other	Multiple large splashes on the water followed by three consecutive powerful blows	Seismic not a factor; too far away -	41 39 13.0 N, 36 40 32.5 W	41 39 28.6 N, 36 39 19.6 W	41.65793377	-36.65544254	1730.049148	-4374	1.935370229	514345.5966	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	6	Good	Slight	Operations	Clear	25	On
V41	Initial	Atlantis	2018-06-29T08:52:57.8	Naked eye		Unid. whale	1,400	Terra Hanks	Blow	1	1	1	ND	Travel		Dive	Large generic blow again at 1.4 km.	Seismic not a factor; too far away	41 41 42.8 N, 36 40 45.9 W	41 42 8.2 N, 36 39 55.6 W	41.70227395	-36.66544934	1214.352154	-4402	1.452265908	517271.5601	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	6	Good	Slight	Operations	Clear	25	On
V42	Initial	Atlantis	2018-06-29T08:58:43.9	Naked eye		Short-beaked common dolphin	100	Joshua Domenico	Body	30	40	35	2	Surface-active mill	Chasing fish	Behavior state	First mate PJ spotted a herd of dolphins in front of vessel feeding. Josh approached the bridge and spotted several grey pale and yellowish looking bodies. There were birds flying up above and lots of milling observed. Feeding of fish was also occurring.	A shutdown was called for because of the animals NOT approaching the vessel. The animals were also seen feeding on observed fish.	41 42 29.3 N, 36 40 50.9 W	41 42 32.6 N, 36 40 51.4 W	41.70904225	-36.68094809	2.038264124	-4402	1.452413729	518758.7676	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	6	Good	Slight	Operations	Clear	25	On

Cetacean and Sea Turtle Occurrences in the Remote Mid-Atlantic

V43	Initial	Atlantis	2018-06-29T11:34:45.7	Naked eye		Unid. whale	3,000	Terra Hanks	Blow	1	2	2	ND	Travel		Dive	Two powerful blows that dissipated in this wind immediately.	Seismic activity not a factor; too far away	42 03 19.0 N, 36 43 6.9 W	42 04 16.1 N, 36 41 21.1 W	42.07114371	-36.68918527	2521.261505	-4288	1.091635041	538499.6225	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	6	Good	Moderate	Operations	Clear	15	On
V43	Subsequent	Atlantis	2018-06-29T11:36:03.3	Naked eye		Unid. whale	3,000	Terra Hanks	Blow	1	1	1	ND	Travel		Dive			42 03 29.3 N, 36 43 8.3 W	42 04 44.8 N, 36 41 45.9 W	42.07910596	-36.69609423	2001.556003	-4288	1.091769747	539438.5353	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	6	Good	Moderate	Operations	Clear	15	On
V44	Initial	Atlantis	2018-06-29T17:57:25.6	Naked eye		Short-beaked common dolphin	5	Rachel Wachtendonk	Body	4	6	4	0	Surface-active travel		None	I saw a tall thin dorsal of a dolphin approach the bow of the boat. AB on watch, and the captain saw it on the other side of the vessel a few moments later. I then saw three other individual dolphins swimming under the surface towards the back of the boat. They had the distinct tri-coloration of common dolphins. Animals fairly robust, about 2 m long. The group was traveling loosely together and not very fast.	Seismic not a factor with traveling <i>Delphinus</i>	42 54 0.3 N, 36 48 35.5 W	42 54 0.5 N, 36 48 35.6 W	42.90012989	-36.80989025	0.797683011	-4169	1.171838665	591436.9802	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Good	Moderate	Operations	Partly cloudy	50	On
V44	Subsequent	Atlantis	2018-06-29T17:58:32.0	Naked eye		Short-beaked common dolphin	10	Rachel Wachtendonk	Body	4	6	4	0	Surface-active travel		Dive	The dolphins swam to the back of the boat where they started moving towards 5:00. I saw them surface twice and then they did not appear again.		42 54 9.2 N, 36 48 36.6 W	42 54 9.2 N, 36 48 36.2 W	42.90254339	-36.81005554	9.935013684	-4169	1.171842011	591600.5528	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Good	Moderate	Operations	Partly cloudy	50	On
V45	Initial	Atlantis	2018-06-29T21:13:46.9	Naked eye		Sperm whale	400	Joshua Domenico	Blow	7	10	8	8	Surface-active travel		Direction of travel	Spotted 10 blows ahead of the vessel. We noticed pyramid-shaped dorsal fins. Log looking bodies with a bulging head and a blowhole that appeared to be on the left side of all the animals.		43 20 30.4 N, 36 51 25.9 W	43 20 41.2 N, 36 51 35.9 W	43.34476559	-36.85996272	196.4831339	-4074	1.706992637	624035.1256	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Good	Moderate	Operations	Overcast	90	On
V45	Subsequent	Atlantis	2018-06-29T21:14:49.9	Naked eye		Sperm whale	100	Joshua Domenico	Body	7	10	8	8	Surface-active travel	Unknown	Dive	As the vessel neared, I saw a log looking body, a distinct leftwards blow, and a fluke with a notch in it. Brownish-colored body. We were debating if these were pygmy sperm whales, but through further analysis, they appeared to be juvenile sperm whales.	Called for a shutdown	43 20 38.2 N, 36 51 25.6 W	43 20 39.7 N, 36 51 29.6 W	43.34434841	-36.85821199	88.76321337	-4074	1.706981009	623895.0949	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Good	Moderate	Operations	Overcast	90	On
V45	Subsequent	Atlantis	2018-06-29T21:45:17.8	Naked eye		Sperm whale	150	Joshua Domenico	Body	7	10	8	8	Surface-active travel	Fluke up	Dive	We saw about four distinct flukes with notches in them. The flukes were very broad. The animals were in the vessel's path but were observed to start leaving altogether.		43 24 23.6 N, 36 51 27.9 W	43 24 20.9 N, 36 51 33.4 W	43.40579565	-36.85928603	106.6935544	-4091	2.15564464	628202.2539	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Good	Moderate	Operations	Overcast	90	On
V46	Initial	Atlantis	2018-06-29T21:59:37.3	Naked eye		Sperm whale	300	Joshua Domenico	Body	2	2	2	1	Surface-active travel		Dive	Saw a log looking body with a calf. The calf was a third of the body length of the mother. Distinctly saw a leftward blow. Saw the peduncle of the mother, and it was a mirror description of a sperm whale with crenulations and the knuckles of the back.	Mother and a calf combo called for a shutdown	43 26 13.5 N, 36 50 43.2 W	43 26 12.8 N, 36 50 56.5 W	43.43690007	-36.84902981	273.6574945	-4041	1.683075634	629720.405	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	4	Good	Moderate	Operations	Overcast	90	On
V47	Initial	Atlantis	2018-06-29T22:25:20.7	Naked eye		Short-beaked common dolphin	25	Terra Hanks	Body	15	20	15	ND	Bow riding	Breach	Direction of travel	Saw a group of dolphins enter the zone while we were clearing the zone so an additional 15 min has been added to the clear.		43 29 35.3 N, 36 49 41.5 W	43 29 34.8 N, 36 49 40.7 W	43.49299524	-36.8279752	17.25943791	-4051	1.795706729	632341.955	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	3	Good	Moderate	Operations	Overcast	90	Off
V48	Initial	Atlantis	2018-06-30T07:59:33.9	Naked eye		Short-beaked common dolphin	100	Terra Hanks	Body	3	5	3	0	Surface-active travel	Breach	Dive	Yellow gray and white stripey patched down the sides; small falcate dorsal fin. One individual breached while traveling fast 3 times before leaving. Their group of 3 was dispersed over 250 m. Their travel was heading towards the bow, but 8 min later saw sighting V49, which potentially are the same dolphins, and they were feeding.	Seismic not a factor for fast traveling	43 43 15.8 N, 37 35 31.3 W	43 43 19.0 N, 37 35 30.7 W	43.72193504	-37.59186301	99.81655354	-3879	1.421047055	696534.27	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Overcast	99	On
V49	Initial	Atlantis	2018-06-30T08:07:37.1	Naked eye		Short-beaked common dolphin	350	Terra Hanks	Dorsal	2	3	2	0	Surface-active travel	Feeding on observed fish	Dive	Saw 2 dolphins on the port side with small stature and small falcate fin, yellowish gray and white strips on their sides; however, they never leapt out of the water, so I put most likely on the spout not sure. As I saw the fin, a small school of fish leapt out of the water indicating that the dolphins were feeding.	Seismic not a factor at this point because they are 350 m away.	43 43 16.3 N, 37 34 27.8 W	43 43 5.9 N, 37 34 21.7 W	43.71831001	-37.57268768	325.8844189	-3866	1.412268704	694894.4618	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Partly cloudy	75	On
V5	Initial	Atlantis	2018-06-18T21:35:26.9	Naked eye		Short-beaked common dolphin	2,500	Joshua Domenico	Splash	4	2	3	ND	Surface-active travel	Breach	None	Observed what I thought was a splash immediately followed by two more splashes, and then a body porpoising out of the water.	The vessel was in operations, and the animals were first observed to be traveling towards the vessel, so no mitigation was needed if they approached the EZ.	33 56 56.6 N, 49 11 34.5 W	33 58 17.4 N, 49 11 39.6 W	33.97150389	-49.19432218	2494.647308	-4920	1.764139828	119405.1915	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	8	Good	None	Operations	Overcast	100	On
V5	Subsequent	Atlantis	2018-06-18T21:37:52.7	Fujinon 7 x 50 bridge	1	Short-beaked common dolphin	1903.626292	Joshua Domenico	Splash	4	2	3	ND	Surface-active travel	Breach	Dive	Immediately brought binoculars up to get a reticle on the animals. Observed them traveling towards the vessel and then nothing more. I initially thought these were the Atlantic white-sided dolphins, but upon further investigation, I determined them to be commons because of the yellow I remember from the face.	It was assumed that the animals would be coming at the vessel to bow ride, but they changed their course and behavior and dove instead.	33 56 57.1 N, 49 11 57.7 W	33 57 58.6 N, 49 12 1.6 W	33.96628626	-49.20044865	1893.576559	-4916	1.948408112	120063.5962	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	8	Good	None	Operations	Overcast	100	On
V50	Initial	Atlantis	2018-06-30T11:43:56.8	Naked eye		Unid. dolphin or porpoise	400	Rachel Wachtendonk	Dorsal	8	12	10	0	Travel		Dive	Saw a group of about 10 dolphins. They appeared to be about 2 m in length with tall thin dorsals. They did not come out of the water enough or close enough to the boat to make a species ID. I saw the group once and then they must have dove because I did not see them again.	Guns off	43 43 28.6 N, 37 00 15.0 W	43 43 35.3 N, 37 00 59.7 W	43.72645933	-36.99990309	245.6589881	-4036	0.358098674	659607.5111	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Deployment	Clear	30	Off
V51	Initial	Atlantis	2018-06-30T12:12:20.9	Naked eye		Unid. marine mammal	5,000	Rachel Wachtendonk	Splash	1	1	1	0	Unknown		None	Jim (the AB on watch) said he saw a splash a ways off that seemed like a breaching animal. He continued to look but didn't see it again.		43 45 8.7 N, 37 00 17.4 W	43 43 14.2 N, 36 57 39.1 W	43.72061074	-36.96085192	3268.424295	-4052	0.85848421	656795.5534	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Deployment	Clear	30	Off
V52	Initial	Atlantis	2018-06-30T12:55:58.9	Naked eye		Pilot whale spp.	600	Joshua Domenico	Body	20	30	25	5	Surface-active travel	Chasing fish	None			43 47 43.0 N, 37 00 31.7 W	43 47 59.8 N, 37 00 45.2 W	43.79993795	-37.01255636	204.4246511	-4080	0.142606095	665689.3548	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Deployment	Clear	30	Off

V52	Subsequent	Atlantis	2018-06-30T12:59:05.9	Naked eye	Pilot whale spp.	400	Joshua Domenico	Body	20	30	25	5	Surface-active travel	Chasing fish	None	Spotted a large group of very distinct long-finned whales. Instantly thought of pilot whales; and through the marine mammal identification guide, we determined pilot whales because of dorsal fin recognition.	Traveling on one group with rain-looking water around them indicating fish chasing	43 47 54.3 N, 37 00 32.7 W	43 48 3.5 N, 37 00 45.4 W	43.80096528	-37.01261264	255.2384588	-4080	0.142608086	665767.3691	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Deployment	Clear	30	Off
V52	Subsequent	Atlantis	2018-06-30T13:00:25.8	Naked eye	Pilot whale spp.	300	Joshua Domenico	Body	10	15	12	2	Surface-active travel	Feeding on observed fish	Direction of travel		At this point, the whales changed their direction of travel.	43 47 59.0 N, 37 00 33.1 W	43 47 59.0 N, 37 00 46.5 W	43.79972996	-37.01292873	296.7115721	-4080	0.142605692	665696.8899	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Deployment	Clear	30	Off
V53	Initial	Atlantis	2018-06-30T13:08:02.0	Naked eye	Pilot whale spp.	500	Joshua Domenico	Body	10	15	12	3	Surface-active travel	Feeding on observed fish	Direction of travel		We then noticed that the group split into two and saw two distinct groups chase after and start feeding on observed fish. -	43 48 27.1 N, 37 00 34.8 W	43 48 41.2 N, 37 00 46.0 W	43.81143413	-37.01278396	216.0428744	-4080	0.142628382	666538.5406	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Deployment	Clear	30	Off
V53	Subsequent	Atlantis	2018-06-30T13:10:18.5	Naked eye	Pilot whale spp.	400	Joshua Domenico	Body	10	15	12	3	Surface-active travel	Feeding on observed fish	Direction of travel		-	43 48 35.2 N, 37 00 35.4 W	43 48 47.7 N, 37 00 40.0 W	43.81325304	-37.01111525	79.81558418	-4077	0.341832518	666569.5757	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Deployment	Clear	30	Off
V54	Initial	Atlantis	2018-06-30T17:18:03.1	Naked eye	Short-beaked common dolphin	550	Terra Hanks	Body	8	12	10	2	Surface-active travel	Breach	None	Small breaching white gray and yellow patterns down the side of body dolphins appeared on the port side of the boat.	Seismic not a factor for traveling <i>Delphinus</i> . Kim saw them, and Joanna came up to the bridge to let us know.	43 53 16.5 N, 37 10 15.4 W	43 52 58.7 N, 37 10 14.8 W	43.88298543	-37.17077036	549.7801692	-4001	2.441287582	681331.9403	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Operations	Clear	25	On
V55	Initial	Atlantis	2018-06-30T17:23:23.3	Naked eye	Short-beaked common dolphin	200	Terra Hanks	Body	6	8	7	0	Surface-active travel		Dive	Saw fin out of water slightly falcate and light gray. Most likely they were commons but did not get a great look. They were dispersed bow to abeam and then dove.	Seismic not a factor for traveling <i>Delphinus</i>	43 53 16.6 N, 37 10 54.5 W	43 53 23.0 N, 37 10 55.9 W	43.88971246	-37.1821901	197.0500511	-4030	2.327575346	682513.6231	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Operations	Clear	25	On
V56	Initial	Atlantis	2018-06-30T17:32:45.1	Naked eye	Sperm whale	2,000	Terra Hanks	Blow	1	1	1	0	Surface-active travel		Dive	One blow seen left angled semi-light and then it continued to blow traveling away from group sighting V57.		43 53 17.3 N, 37 12 3.2 W	43 54 13.9 N, 37 12 46.8 W	43.90385663	-37.21300493	1670.222929	-3976	2.464008492	685412.4737	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Operations	Clear	25	On
V57	Initial	Atlantis	2018-06-30T17:32:48.9	Naked eye	Sperm whale	2,500	Terra Hanks	Blow	6	7	6	0	Surface-active travel		Dive	Multiple left angle short succession blows observed see next line		43 53 17.3 N, 37 12 3.7 W	43 54 15.5 N, 37 13 21.8 W	43.90430236	-37.22271313	1638.221537	-3994	2.556099467	686036.4272	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Operations	Clear	25	On
V57	Subsequent	Atlantis	2018-06-30T17:39:47.2	Naked eye	Sperm whale	2,500	Terra Hanks	Blow	6	7	6	0	Surface-active travel		Dive	Short leftward blows followed by small rounded black dorsal fin and one individual fluked. 12 multiple blows consecutively from three individuals traveling approx. 3 body lengths apart. Two other individuals were on the perimeter of about 500 m circle in which they all traveled. One individual was near the group of three may be 40 m behind them. All were breathing in rapid succession followed by 2 to 3 min of resting or shallow dives.	Seismic active but whales appear to be traveling slowly and no calves observed; continued monitoring with Josh and Rachel and many of the crew aboard.	43 53 18.3 N, 37 12 54.6 W	43 54 16.5 N, 37 14 12.6 W	43.90458556	-37.23684302	1725.705143	-4009	2.5036934	686918.8932	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Operations	Clear	25	On
V57	Subsequent	Atlantis	2018-06-30T17:51:04.7	Naked eye	Sperm whale	3,000	Terra Hanks	Body	5	7	6	0	Surface-active travel	Fluke up	Dive	2 individuals fluked		43 53 18.6 N, 37 14 13.6 W	43 53 23.7 N, 37 16 28.2 W	43.88990372	-37.27449061	193.672287	-4110	2.05577022	688167.9469	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Operations	Clear	25	On
V57	Subsequent	Atlantis	2018-06-30T17:53:53.4	Naked eye	Sperm whale	2,500	Terra Hanks	Body	4	7	6	0	Surface-active travel	Fluke up	Dive	1 individual fluked		43 53 18.3 N, 37 14 33.1 W	43 54 19.4 N, 37 15 46.8 W	43.90538534	-37.26300844	1931.979896	-4020	2.638959216	688575.0375	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Operations	Clear	25	On
V57	Subsequent	Atlantis	2018-06-30T17:55:10.8	Naked eye	Sperm whale	2,500	Terra Hanks	Body	2	7	6	0	Surface-active travel	Fluke up	Dive	2 individuals still left		43 53 18.1 N, 37 14 42.4 W	43 54 19.1 N, 37 15 56.1 W	43.90531556	-37.26559581	1847.202844	-4027	2.604030767	688728.2663	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Operations	Clear	25	On
V57	Subsequent	Atlantis	2018-06-30T17:57:39.2	Big Eyes 02	Sperm whale	2,500	Joshua Domenico	Body	6	7	7	1	Surface-active travel	Unknown	Dive	Was looking through the big eyes and thought I saw a calf with a mother. I kept watching the same pair and notice a very distinctively smaller (1/3) body length sperm whale surface directly on the side of a larger mother whale.	Request for shutdown was called by Josh. Request taken in and a shutdown occurred.	43 53 17.7 N, 37 15 0.5 W	43 54 29.1 N, 37 15 53.3 W	43.90808812	-37.26480162	2245.020566	-4020	2.638961775	688878.8573	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Operations	Clear	25	On
V57	Subsequent	Atlantis	2018-06-30T17:58:41.5	Naked eye	Sperm whale	2,000	Terra Hanks	Body	6	7	7	1	Surface-active travel		Dive	START 30-min CLEAR; Last sighting of MC pair		43 53 17.6 N, 37 15 8.2 W	43 53 44.4 N, 37 16 29.9 W	43.89567704	-37.27497692	778.1503414	-4110	2.055773339	688611.2214	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Other	Clear	25	Off
V58	Initial	Atlantis	2018-06-30T18:22:26.3	Naked eye	Sperm whale	500	Terra Hanks	Body	1	1	1	0	Rest		Dive	Large black curved dorsal. Assume male was resting on surface with no visible blows at first; then we saw the distinct left side blow. It remained on the surface for 5 min and then was not seen again.	Seismic was off -	43 53 18.0 N, 37 18 1.1 W	43 53 33.8 N, 37 18 5.3 W	43.89273565	-37.3014856	482.8950883	-4108	1.894052022	690027.0781	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Other	Clear	25	Off
V59	Initial	Atlantis	2018-06-30T18:25:45.5	Naked eye	Sperm whale	3,000	Joshua Domenico	Blow	2	6	5	0	Surface-active travel	Blow	Dive	Saw 2 distinctly angled blows aft 3 km traveling towards us about 25 m apart.		43 53 18.4 N, 37 18 24.1 W	43 54 0.9 N, 37 16 22.9 W	43.90026276	-37.27302948	1516.256316	-4027	2.604029271	688820.614	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Other	Clear	25	Off
V59	Subsequent	Atlantis	2018-06-30T19:49:51.8	Naked eye	Sperm whale	2,500	Terra Hanks	Blow	4	6	5	0	Surface-active travel	Blow	Dive	Continued to watch the blows there were 2 blows (IndA, IndB) about 25 m apart then another blow. (IndC) occurred in between the 2 blows but at a greater distance (an additional km approx.) behind them, and then there was a 4th blow (IndD) with other 2 (IndA, IndB) about 25 m apart again. The 3 (IndA, IndB, IndD) traveled in a line and blew 5 times at approx. the same time for the next 30 sec before a 5th whale (IndE) blew 500 m to the N of the group of 3. IndE blew 3 time in approx. 15 sec; then, they all dove shallowly, and we lost sight of them.	Seismic no factor -	43 53 19.7 N, 37 27 58.0 W	43 53 48.7 N, 37 26 13.1 W	43.89687184	-37.43697476	989.2645292	-3785	2.504045181	698680.2764	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Operations	Partly cloudy	35	On
V6	Initial	Atlantis	2018-06-22T18:22:57.1	Naked eye	Unid. turtle	75	Terra Hanks	Body	1	1	1	0	Rest		Dive	Small turtle light brown and dark brown patches with barnacles attached. It dove quite quickly, so I did not get a good look at the head.	No mitigation measures were needed due to the seismic sources being off and the vessel underway.	34 13 28.8 N, 42 52 43.8 W	34 13 27.9 N, 42 52 41.0 W	34.22442746	-42.87805722	62.69585528	-3874	3.213290967	567217.4422	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Good	Moderate	Underway	Partly cloudy	25	Off

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V60	Initial	Atlantis	2018-06-30T20:19:28.5	Naked eye		Sei whale	5,000	Terra Hanks	Blow	1	1	1	0	Travel	Blow	Unknown	Saw 4 tall thin blows of a traveling large whale (~18 m long); blow does not seem large enough to be a blue whale. Blows every 5 sec apart.	Animal out of range of seismic activity	43 53 16.7 N, 37 31 19.5 W	43 55 56.6 N, 37 31 54.7 W	43.93238372	-37.53184763	4993.374165	-3671	1.541695486	707064.4517	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Operations	Partly cloudy	35	On
V60	Subsequent	Atlantis	2018-06-30T20:25:13.3	Naked eye		Sei whale	4,750	Joshua Domenico	Blow	1	1	1	0	Travel	Blow	Dive	Saw 5 blows, each 4 sec apart. Long slender body. Dorsal towards center of animal. Animal had brownish hue and palish brush marks on side of body. Body came up more out of the water and appeared to have dove.	Animal out of range of seismic activity	43 53 17.1 N, 37 31 58.2 W	43 55 49.0 N, 37 32 31.6 W	43.93026981	-37.54212058	4727.005426	-3671	1.541647849	707554.762	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Operations	Partly cloudy	35	On
V61	Initial	Atlantis	2018-06-30T21:37:57.6	Naked eye		Unid. marine mammal	4,500	Joshua Domenico	Splash	1	1	1	0	Unknown	Unknown	None	Saw a splash at a very far distance. Started observing through the binoculars and witnessed a splash and then a porpoise of an unid. marine mammal. Saw a very small body out of the water and a potential misty blow. Very far and very small. Could not get a description due to sun glare.		43 53 16.1 N, 37 40 28.4 W	43 50 57.5 N, 37 41 30.8 W	43.84931827	-37.69189606	4189.751217	-4130	0.776687439	711364.4763	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	10	Good	Slight	Operations	Partly cloudy	35	On
V61	Subsequent	Atlantis	2018-07-01T07:25:34.1	Naked eye		Atlantic white-sided dolphin	1,000	Terra Hanks	Birds	5	10	8	0	Surface-active mill	Chasing fish	Behavior state	White striped small gray dolphin with a very dark dorsal fin observed in a bait ball with fish that are approx hand-sized. There were multiple breaches in the middle of a group distributed throughout a 25 meter circle some individuals on the edge not breaching but swimming erratically. No sustained pattern of distribution however. Breaches were full-bodies of approx one-half the body length high.		43 33 19.6 N, 37 41 59.2 W	43 33 20.7 N, 37 42 43.9 W	43.55575652	-37.71218194	995.7729379	-3851	1.597781633	693273.2058	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	0	10	Good	Slight	Operations	Partly cloudy	50	On
V61	Subsequent	Atlantis	2018-07-01T07:43:15.7	Naked eye		Atlantic white-sided dolphin	1,500	Terra Hanks	Dorsal	5	10	8	0	Surface-active travel	Chasing fish	Behavior state	Birds and dolphins are in an epic battle for fish. Saw one try to remove the fish from a dolphin's mouth. Birds are small white-bellied and brown on top. Not sure of their species.	Seismic not a factor	43 31 50.6 N, 37 41 59.0 W	43 32 17.0 N, 37 42 55.2 W	43.53806936	-37.71532498	1239.14746	-3845	1.651847925	692236.4425	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	0	10	Good	Slight	Operations	Partly cloudy	50	On
V62	Initial	Atlantis	2018-07-01T08:02:18.1	Naked eye		Unid. marine mammal	1,000	Terra Hanks	Other	1	1	1	ND	Unknown		None			43 30 12.1 N, 37 42 1.0 W	43 30 7.0 N, 37 41 16.9 W	43.50195686	-37.68802107	984.2493688	-3705	2.070580804	688117.6702	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	0	10	Good	Slight	Operations	Partly cloudy	50	On
V62	Subsequent	Atlantis	2018-07-01T08:12:46.2	Naked eye		Unid. marine mammal	800	Terra Hanks	Other	1	1	1	ND	Unknown		None	2 to 3 m long dark oblong-shape bobbed up and down, sometimes disappearing completely and sometimes coming out of the water more making it look like there was a large, long squarish dorsal fin, and body beneath it also looked like a dead seal at times or a resting whale. I never saw it move, and there were multiple birds hovering around it. Never was able to determine what it was.	Amy arced the curve a little wider to keep the animal out of the zone.	43 29 22.0 N, 37 41 45.2 W	43 29 33.6 N, 37 41 13.2 W	43.49265653	-37.68700474	646.3919102	-3705	1.866005081	687539.7791	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	0	10	Good	Slight	Operations	Partly cloudy	50	On
V62	Subsequent	Atlantis	2018-07-01T08:15:29.3	Naked eye		Unid. marine mammal	600	Terra Hanks	Other	1	1	1	ND	Unknown		None			43 29 17.5 N, 37 41 23.2 W	43 29 1.4 N, 37 41 8.2 W	43.48372065	-37.6856175	495.8487124	-3705	1.865739248	686873.337	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	0	10	Good	Slight	Operations	Partly cloudy	50	On
V62	Subsequent	Atlantis	2018-07-01T08:16:55.0	Naked eye		Unid. marine mammal	600	Terra Hanks	Other	1	1	1	ND	Unknown		None			43 29 18.6 N, 37 41 10.3 W	43 28 59.2 N, 37 41 7.5 W	43.48312193	-37.68541325	597.3259035	-3705	1.865721441	686821.3869	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	0	10	Good	Slight	Operations	Partly cloudy	50	On
V63	Initial	Atlantis	2018-07-01T08:27:54.2	Naked eye		Short-beaked common dolphin	1,500	Terra Hanks	Other	30	50	40	2	Surface-active mill	Feeding on observed fish	None	Saw 40+ small white gray and yellow-sided dolphins 1 to 4 body lengths apart.		43 29 24.2 N, 37 39 38.5 W	43 30 5.0 N, 37 40 15.0 W	43.50137963	-37.67082262	1292.224497	-3657	2.038748903	686948.595	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	0	10	Good	Slight	Operations	Partly cloudy	50	On
V63	Subsequent	Atlantis	2018-07-01T08:43:01.6	Naked eye		Short-beaked common dolphin	1,000	Terra Hanks	Birds	6	12	40	2	Surface-active travel	Other	Other	Six common joined up with the large group and began traveling together. There were 2 calves determined by their significantly smaller size and the close proximity to an adult (less than one meter).	Seismic not a factor	43 29 21.4 N, 37 37 48.3 W	43 29 5.2 N, 37 37 9.6 W	43.48478898	-37.61933821	480.3487562	-3548	1.510847652	682494.6573	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	0	10	Good	Slight	Operations	Partly cloudy	50	On
V64	Initial	Atlantis	2018-07-01T08:46:36.6	Naked eye		Atlantic white-sided dolphin	1,000	Terra Hanks	Body	36	56	51	4	Surface-active travel	Breach	Behavior state	The large group is now traveling together and no longer feeding as the bait ball appears to have dissipated. They are traveling in a line formation one behind the other totalling approx. 17 body lengths. All are porpoising a meter or less out of the water, and they are very close to one another.		43 29 21.5 N, 37 37 23.6 W	43 28 50.2 N, 37 37 12.1 W	43.4806183	-37.62001758	963.6897922	-3548	1.510782672	682270.4054	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	0	10	Good	Slight	Operations	Partly cloudy	50	On
V65	Initial	Atlantis	2018-07-01T09:02:04.7	Naked eye		Unid. dolphin or porpoise	2,500	Terra Hanks	Body	3	6	3	0	Surface-active travel	Breach	Dive	Small falcate dorsal and gray body traveling approx. 3 body lengths apart. Small white-bellied birds following them.	Seismic not a factor	43 29 22.3 N, 37 35 36.3 W	43 28 24.1 N, 37 36 53.8 W	43.47336077	-37.61493854	1760.860465	-3595	2.077689113	681560.1251	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	0	10	Good	Slight	Operations	Partly cloudy	50	On
V66	Initial	Atlantis	2018-07-01T09:04:50.6	Naked eye		Green turtle	150	Terra Hanks	Body	1	1	1	1	Rest	Injured	None	Saw turtle dead ahead and asked PJ to change course.	PJ turned 5 degrees to port then back to starboard to avoid collision. Bearing to empty, edited to 1200 h based on sighting description - JH.	43 29 22.7 N, 37 35 17.3 W	43 29 23.1 N, 37 35 10.6 W	43.489762	-37.58628316	0	-3510	0.930287647	680747.6036	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	0	10	Good	Slight	Operations	Partly cloudy	50	On

V66	Subsequent	Atlantis	2018-07-01T09:27:59.0	Naked eye		Green turtle	120	Terra Hanks	Body	1	1	1	1	Rest	Injured	None	Small (bus steering wheel) turtle with light brown and dark brown striated plates was not moving much. Initially thought it was dead, but it moved a flipper and shifted head a few times.	I called a SHUTDOWN and then watched the turtle go right down the star-board side of the boat, and it continued to stay on the surface as it traveled away from us. It was not moving much. I saw it leave the 100 m EZ, and I informed Houston they could again fire the guns. Bearing to empty, edited to 1200 h based on sighting description - JH.	43 29 20.9 N, 37 32 38.8 W	43 29 21.4 N, 37 32 33.5 W	43.48928523	-37.5426456	0	-3535	1.097579003	677758.4912	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	0	10	Good	Slight	Operations	Partly cloudy	50	On
V67	Initial	Atlantis	2018-07-01T13:19:42.1	Naked eye		Loggerhead turtle	75	Joshua Domenico	Body	1	1	1	0	Rest	Unknown	None	Saw a very distinct sea turtle that was reddish brownish in color with many ridges.	Shutdown occurred until turtle floated outside of zone.	43 49 9.9 N, 37 31 40.4 W	43 49 12.2 N, 37 31 41.5 W	43.82004774	-37.52819102	15.772585	-3990	1.361287517	699229.6804	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Partly cloudy	30	On
V68	Initial	Atlantis	2018-07-01T13:45:26.8	Naked eye		Atlantic white-sided dolphin	1,200	Joshua Domenico	Body	5	15	15	0	Surface-active mill	Feeding on observed fish	None	Jim has spotted dolphins. At first they were about 4 km away and as we are approaching them we can properly ID the darker bodies with a whiter underside. They are milling with birds flying up above their area.	QAQC- JH Bearing to field changed from 356:12:00 to 356+12:00.	43 51 24.3 N, 37 31 41.2 W	43 52 3.0 N, 37 31 45.0 W	43.86751223	-37.52915586	50.46003926	-3836	2.733096109	702366.866	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Partly cloudy	30	On
V68	Subsequent	Atlantis	2018-07-01T13:58:23.9	Naked eye		Atlantic white-sided dolphin	3,000	Joshua Domenico	Splash	15	15	15	0	Surface-active mill	Feeding on observed fish	None			43 52 14.8 N, 37 31 5.2 W	43 53 28.1 N, 37 29 36.8 W	43.89112584	-37.49356046	1850.283476	-3734	1.774673666	701791.877	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Partly cloudy	30	On
V69	Initial	Atlantis	2018-07-01T14:38:42.7	Naked eye		Short-beaked common dolphin	50	Terra Hanks	Body	15	25	20	0	Surface-active travel		None	Very distinct yellow and white stripes observed on the animals. They were milling, traveling, and playing on bow.		43 52 17.3 N, 37 26 26.3 W	43 52 17.0 N, 37 26 24.1 W	43.87137651	-37.44002655	11.15399923	-3857	1.730322794	697076.7654	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Deployment	Partly cloudy	30	Off
V7	Initial	Atlantis	2018-06-23T08:35:34.9	Naked eye		Short-beaked common dolphin	50	Terra Hanks	Splash	12	18	15	ND	Bow riding		Dive	Small 6.5 ft long gray with some white stripes; pudgy in nature. They approached the boat and bow rode for a few seconds and then dove.	Amy and Lance informed me of dolphins as I had just come in to mark a line. I ran down to see them but they had already left. They looked through the marine mammal guide and determined they were either bottlenose or Clymene but that they both know bottlenose, and these weren't that big. It appears we might be out of primary range of the Clymene dolphin. After further investigation in other books, Lance determined that the species was most likely short-beaked or common dolphin.	35 55 20.0 N, 40 15 49.6 W	35 55 19.8 N, 40 15 47.6 W	35.92217024	-40.26323525	36.046219	-3833	2.89335234	796992.4438	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	8	Good	None	Underway	Partly cloudy	65	Off
V70	Initial	Atlantis	2018-07-01T15:16:51.5	Naked eye		Atlantic white-sided dolphin	1,500	Terra Hanks	Splash	8	15	8	0	Surface-active travel		None	First sighted a splash and then bodies porpoising directly away so I was only seeing flukes. The body spacing was very tight (less than a meter to 3 m). Rachel thought she saw white stripe so we went with a most likely. They maintained their direction, and travel speed which was relatively rapid.	Seismic not a factor	43 52 15.5 N, 37 21 57.3 W	43 51 29.6 N, 37 21 35.3 W	43.85821167	-37.3598163	1369.44214	-4015	2.417254645	691172.5849	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	On
V71	Initial	Atlantis	2018-07-01T15:55:46.6	Naked eye		Unid. dolphin or porpoise	5,000	Terra Hanks	Body	3	3	3	ND	Surface-active travel		None	Joanna saw 3 bodies jump, and they were the size of dolphins.		43 50 21.0 N, 37 19 58.5 W	43 48 0.8 N, 37 21 50.6 W	43.80022067	-37.36406874	2690.912549	-4005	1.203467732	687591.916	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	On
V72	Initial	Atlantis	2018-07-01T16:07:15.8	Naked eye		Short-beaked common dolphin	200	Terra Hanks	Body	5	7	5	0	Surface-active travel	Feeding on observed fish	Behavior state	Changed direction after feeding on a fish and went to the bow and rode it. Small grey with white and cream stripe patch down side. High breach porpoising and grabbed a silver fish about 3 ft long. Directly after, they all came to the boat and bow rode.		43 49 25.7 N, 37 19 58.9 W	43 49 19.3 N, 37 19 58.9 W	43.82201652	-37.33304026	1.783916596	-4050	1.696872691	686959.5105	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	On
V72	Subsequent	Atlantis	2018-07-01T16:22:50.4	Naked eye		Short-beaked common dolphin	80	Terra Hanks	Body	5	7	5	0	Bow riding	Breach	Direction of travel	Bow rode and then swam the length of the ship and then veered off 90 degrees.		43 48 7.1 N, 37 19 57.9 W	43 48 4.5 N, 37 19 57.9 W	43.80126221	-37.33275167	2.708233454	-4033	1.304032258	685482.0228	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	On
V73	Initial	Atlantis	2018-07-01T16:39:27.2	Naked eye		Unid. whale	7,000	Terra Hanks	Blow	1	1	1	ND	Surface-active travel	Blow	Dive	Joanna saw something but wasn't sure. She then came to me, and we saw it together. Two classic shaped blows (large in size but not blue whale size) three min apart and 2 short successions with 13 sec between.		43 46 44.0 N, 37 19 58.0 W	43 49 56.2 N, 37 17 11.6 W	43.83226911	-37.28654503	3728.06611	-4158	0.843801381	684804.1304	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	On
V74	Initial	Atlantis	2018-07-01T16:44:00.0	Naked eye		Risso's dolphin	250	Terra Hanks	Dorsal	9	9	9	0	Surface-active travel		Dive	Dan saw the dolphins and reported them, and then I saw and identified them. Tall whitish grey dorsal with a block-shaped head and rake marks all over individuals. They traveled slowly in a line with less than one body length betwixt them.	Seismic activity	43 46 21.1 N, 37 19 58.0 W	43 46 24.9 N, 37 19 48.1 W	43.77357715	-37.33001747	220.6549063	-3983	1.283530025	683371.5928	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	On

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V75	Initial	Atlantis	2018-07-01T17:18:13.5	Naked eye		Green turtle	15	Terra Hanks	Body	1	1	1	0	Rest		Direction of travel	Jim saw a turtle right next to the boat. It was bigger and greenish brown. It attempted to swim away as it got closer to the guns.	I called a shutdown, and my radio was scratchy, so they had me repeat and then got the guns off. Two of us saw the turtle leave the 100 m EZ.	43 43 32.2 N, 37 19 58.6 W	43 43 32.7 N, 37 19 59.0 W	43.72573993	-37.33304467	6.628821732	-3918	0.449859448	680228.7224	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	On
V76	Initial	Atlantis	2018-07-01T17:52:39.3	Naked eye		Unid. dolphin or porpoise	300	Rachel Wachtendonk	Dorsal	4	10	8	0	Surface-active travel		None	PJ saw dolphins swimming towards the vessel. A group of at least 6.		43 40 45.7 N, 37 19 58.9 W	43 40 40.2 N, 37 19 47.7 W	43.67783935	-37.32992561	237.2163152	-3901	0.912329226	676922.2156	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	On
V76	Subsequent	Atlantis	2018-07-01T17:53:19.9	Naked eye		Unid. dolphin or porpoise	50	Rachel Wachtendonk	Dorsal	4	10	8	0	Surface-active travel		None	I saw the dolphins on the other side of the boat. They did not bowride. They continued to travel past the vessel and then towards the sterns and out. I saw about 8 individuals. No animal came out of the water enough for me to see any coloration on the sides. The dorsal fins were tall and slender and curved at the tips. The group moved together, not making white water. Animals were spaced less than one body length apart. Animals roughly 2 m in length.		43 40 42.7 N, 37 19 59.0 W	43 40 41.3 N, 37 20 0.3 W	43.67815118	-37.33340776	30.37705241	-3920	0.783146169	676962.2034	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	On
V76	Subsequent	Atlantis	2018-07-01T17:54:35.3	Naked eye		Unid. dolphin or porpoise	400	Rachel Wachtendonk	Dorsal	4	10	8	0	Surface-active travel		Dive	The dolphins reappeared 100 m past the stern and 400 m out from the boat. I still only saw the dorsals and was not able to ID species. I saw the group once and then they must have dove as I did not see them again.		43 40 36.9 N, 37 19 59.1 W	43 40 48.5 N, 37 20 6.9 W	43.68013604	-37.33526051	204.6661343	-3927	0.641953821	677215.8661	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	On
V77	Initial	Atlantis	2018-07-01T18:50:34.9	Naked eye		Loggerhead turtle	20	Rachel Wachtendonk	Body	1	1	1	0	Mill		None	Saw a loggerhead turtle milling at surface surrounded by ~18 small <i>Mola mola</i> fish. It was 0.5 m long with a brown shell. It had hexagons down the center and robust head. It was going to pass the guns within the EZ, so I called for a shutdown. We did not see the turtle float out of the mitigation zone, so we cleared for 15 min.	It was going to pass the guns within the EZ, so I called for a shutdown. We did not see the turtle float out of the mitigation zone, so we cleared for 15 min.	43 35 54.7 N, 37 19 58.6 W	43 35 54.1 N, 37 19 58.7 W	43.59835107	-37.33296162	0.483959807	-3934	0.983955885	671475.2204	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	Off
V78	Initial	Atlantis	2018-07-01T18:58:11.2	Naked eye		Unid. turtle	500	Terra Hanks	Body	1	1	1	0	Mill		None	Turtle shape; could not discern species.		43 35 16.2 N, 37 19 60.0 W	43 35 30.5 N, 37 20 10.5 W	43.59179523	-37.33624136	242.9389038	-3941	0.704965837	671413.3954	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	Off
V79	Initial	Atlantis	2018-07-01T19:33:37.0	Naked eye		Loggerhead turtle	500	Rachel Wachtendonk	Body	1	1	1	0	Mill		None	Saw a turtle about 0.8 m long. It had a brownish color shell and a robust head. I couldn't see anything else as it was too far away. It continued to mill at the surface as we drove by.	Turtle not within EZ	43 32 15.0 N, 37 19 58.8 W	43 32 14.4 N, 37 19 36.4 W	43.53734124	-37.32679092	499.8866575	-3950	0.727203901	666954.9884	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	On
V8	Initial	Atlantis	2018-06-23T16:28:54.0	Naked eye		True's beaked whale	120	Joshua Domenico	Body	4	4	4	ND	Surface-active travel	Breach	Dive	Appeared to be large dolphins (~5 m), headslapping multiple times. Very small pectoral fins and a small dorsal more towards the posterior of the individual. Did not get a great look at the head, but it was elongated like a dolphin but not exactly dolphin.	Josh and I corroborated one another's observations, and we determined it was either a True's or Gervais beaked whale, but given our location, we went with True's.	37 01 12.1 N, 38 15 14.8 W	37 01 13.7 N, 38 15 19.2 W	37.02046586	-38.25534495	104.4839112	-3704	0.667561515	665890.0165	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	7	Good	Slight	Underway	Partly cloudy	50	Off
V8	Subsequent	Atlantis	2018-06-23T16:29:54.0	Naked eye		True's beaked whale	120	Joshua Domenico	Body	4	4	4	ND	Surface-active travel	Breach	Dive			36 47 3.7 N, 38 14 42.5 W	36 47 5.2 N, 38 14 47.0 W	36.78476389	-38.69637525	95.09317057	-3676	0.573059476	711954.3883	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	7	Good	Slight	Underway	Partly cloudy	50	Off
V80	Initial	Atlantis	2018-07-01T19:58:01.7	Naked eye		Short-beaked common dolphin	2,000	Terra Hanks	Splash	20	40	30	ND	Surface-active travel	Breach	None	A huge group of common dolphins that appear to be following a whale. They are robust with the tri-colored sides. Many are breaching completely out of the water and putting on acrobatic displays.	Not in EZ	43 30 8.2 N, 37 19 59.2 W	43 30 3.7 N, 37 18 30.2 W	43.501031	-37.30837724	1995.920942	-3993	0.526963312	663333.4385	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	On
V81	Initial	Atlantis	2018-07-01T19:58:32.6	Naked eye		Unid. whale	2,000	Terra Hanks	Body	1	1	1	0	Travel	Blow	None	15 to 18 m in length. Saw blow and blow-hole when it came up. Traveling 10 m in front of dolphins in the same direction.	Not in EZ	43 30 5.5 N, 37 19 59.2 W	43 30 1.0 N, 37 18 30.2 W	43.50027433	-37.30838589	1989.7262	-3993	0.526958549	663283.3008	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	On
V82	Initial	Atlantis	2018-07-01T20:05:26.8	Naked eye		Short-beaked common dolphin	100	Joshua Domenico	Body	3	5	3	0	Travel		None			43 29 29.6 N, 37 19 59.4 W	43 29 30.2 N, 37 19 55.0 W	43.49172731	-37.33194114	98.66456745	-3949	1.514469215	664374.1475	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	On
V83	Initial	Atlantis	2018-07-01T21:37:15.8	Naked eye		Unid. turtle	400	Joshua Domenico	Body	1	1	1	0	Travel		Direction of travel	Saw a shell in the glare of the water. Could see flippers. It was swimming away from the vessel.		43 33 58.1 N, 37 15 46.1 W	43 34 10.6 N, 37 15 41.5 W	43.5696047	-37.26152665	183.149566	-3818	2.113617095	664968.6028	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	10	Good	Slight	Operations	Clear	25	On
V84	Initial	Atlantis	2018-07-02T07:41:45.2	Naked eye		Sperm whale	4,000	Terra Hanks	Blow	1	2	1	ND	Surface-active travel	Fluke up	Dive	Saw low left angle blow followed by another (8 sec apart) and then a very broad and high fluke and narrow peduncle.		43 43 19.5 N, 37 34 1.0 W	43 45 24.8 N, 37 33 16.1 W	43.75689884	-37.55447788	3356.021307	-3964	1.68498596	696352.526	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	9	Good	None	Operations	Partly cloudy	40	On
V84	Subsequent	Atlantis	2018-07-02T08:01:13.5	Naked eye		Sperm whale	2,000	Terra Hanks	Blow	1	2	1	ND	Surface-active travel	Blow	None	Resurfaced breathing in rapid succession every 4 sec traveling about 200 m between breaths. 16 min dive time if indeed same whale.	Seismic not a factor	43 43 50.8 N, 37 31 49.7 W	43 44 41.8 N, 37 32 44.9 W	43.74495682	-37.54581071	1872.188192	-3892	1.571349143	695174.0473	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	9	Good	Slight	Operations	Partly cloudy	40	On
V84	Subsequent	Atlantis	2018-07-02T08:04:54.7	Naked eye		Sperm whale	1,000	Terra Hanks	Blow	1	2	1	ND	Surface-active travel	Fluke up	Dive	Fluked after being surface active for 3 min.	Seismic not a factor	43 43 56.6 N, 37 31 25.4 W	43 44 22.1 N, 37 31 53.0 W	43.73948578	-37.53139346	916.7882969	-3878	1.355761163	693700.8881	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	9	Good	Slight	Operations	Partly cloudy	40	On
V84	Subsequent	Atlantis	2018-07-02T08:10:46.5	Naked eye		Sperm whale	6,000	Terra Hanks	Blow	1	2	1	ND	Surface-active travel	Blow	None	Blows every 4 to 10 sec (average 9 sec) for 9 min.	Seismic not a factor	43 44 4.9 N, 37 30 45.7 W	43 44 28.5 N, 37 35 12.6 W	43.74125967	-37.58683397	2353.132153	-3928	1.708474517	697348.6851	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	9	Good	Slight	Operations	Partly cloudy	40	On
V84	Subsequent	Atlantis	2018-07-02T08:19:30.7	Naked eye		Sperm whale	7,000	Terra Hanks	Blow	1	2	1	ND	Surface-active travel	Fluke up	Dive	Fluked after being surface active for 9 min.	Seismic not a factor	43 44 18.4 N, 37 29 46.7 W	43 45 43.2 N, 37 34 37.7 W	43.76199064	-37.57713045	4728.660454	-3974	1.693070484	698137.7786	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	9	Good	Slight	Operations	Partly cloudy	40	On
V85	Initial	Atlantis	2018-07-02T07:42:53.9	Naked eye		Unid. dolphin or porpoise	2,800	Terra Hanks	Splash	5	10	7	ND	Surface-active mill	Breach	Dive	Breaching and milling; potentially feeding birds present; and tight body spacing. All occupying an area of approx. 40 m.	Seismic not a factor; undetermined dolphin species due to distance and short time visible plus watching whale	43 43 21.2 N, 37 33 53.3 W	43 44 44.7 N, 37 34 42.3 W	43.74574747	-37.57842539	2785.599539	-3917	1.734057358	697117.1568	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	9	Good	Slight	Operations	Partly cloudy	40	On

V86	Initial	Atlantis	2018-07-02T07:57:54.5	Naked eye		Sperm whale	7,000	Terra Hanks	Blow	1	1	1	ND	Surface-active travel	Blow	Dive	Blow observed in the distance while looking at V87. Most likely sperm but very different blow pattern than the closer one (V87). It would breath ever 20 to 30 sec for 3 to 4 breaths then dive but no fluke observed.	Seismic not a factor	43 43 45.3 N, 37 32 12.1 W	43 45 10.1 N, 37 37 3.0 W	43.75281172	-37.61748999	4606.722232	-4002	1.514443128	700259.9447	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	9	Good	Slight	Operations	Partly cloudy	40	On
V86	Subsequent	Atlantis	2018-07-02T08:02:12.0	Naked eye		Sperm whale	4,000	Terra Hanks	Blow	1	1	1	ND	Surface-active travel	Blow	Dive	Resurfaced breathing every 8 to 15 sec and then disappeared. No body no fluke.	Seismic not a factor	43 43 52.4 N, 37 31 43.2 W	43 45 51.6 N, 37 32 53.2 W	43.76433263	-37.5481194	3987.621916	-3981	1.473685347	696455.8706	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	9	Good	Slight	Operations	Partly cloudy	40	On
V86	Subsequent	Atlantis	2018-07-02T08:14:34.5	Naked eye		Sperm whale	8,000	Terra Hanks	Blow	1	1	1	ND	Surface-active travel	Blow	Dive	Lost sight; blows infrequent.	Seismic not a factor - QAQC - JH- edited Bearing to fix typo of 082 + :700 to 082+7:00 - -	43 44 10.4 N, 37 30 20.4 W	43 45 47.3 N, 37 35 52.9 W	43.76314547	-37.59803511	5075.057745	-4036	1.54847164	699545.3164	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	9	Good	Slight	Operations	Partly cloudy	40	On
V87	Initial	Atlantis	2018-07-02T08:08:48.2	Naked eye		Atlantic white-sided dolphin	7,000	Terra Hanks	Body	100	150	125	ND	Surface-active travel	Breach	Dive	Huge swath of white-sided dolphins leaping out of the air in rapid succession close to one another and very high. Only saw white on the side, so they could be common as well. They followed one another over approx. 1 km long line.	Seismic not a factor; too far away	43 44 2.0 N, 37 30 59.2 W	43 45 26.8 N, 37 35 50.2 W	43.75744403	-37.59726414	4334.22802	-3984	1.71778035	699109.5151	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	9	Good	Slight	Operations	Partly cloudy	40	On
V87	Subsequent	Atlantis	2018-07-02T08:13:53.7	Naked eye		Atlantic white-sided dolphin	7,000	Terra Hanks	Body	100	150	125	ND	Surface-active travel	Breach	Dive		Seismic not a factor	43 44 9.5 N, 37 30 24.9 W	43 43 37.8 N, 37 35 35.5 W	43.72717019	-37.59319015	1110.943217	-3879	1.421079556	696973.5962	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	9	Good	Slight	Operations	Partly cloudy	40	On
V89	Initial	Atlantis	2018-07-02T08:29:07.1	Naked eye		Short-beaked common dolphin	200	Terra Hanks	Body	2	4	2	0	Surface-active travel	Breach	Direction of travel	Two cream white and gray small pudgy dolphins leapt out of the air fast traveling for the bow and then changed direction and dove.	Seismic not a factor for traveling <i>Delphinus</i>	43 44 33.8 N, 37 28 39.4 W	43 44 38.1 N, 37 28 46.0 W	43.74391752	-37.47945418	172.9090871	-3854	0.386449133	690710.7943	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	9	Good	Slight	Operations	Partly cloudy	40	On
V89	Subsequent	Atlantis	2018-07-02T08:29:24.8	Naked eye		Short-beaked common dolphin	150	Terra Hanks	Body	2	4	2	0	Surface-active travel	Breach	Dive		Seismic no factor - -	43 44 34.3 N, 37 28 37.3 W	43 44 30.4 N, 37 28 41.4 W	43.74178723	-37.47816158	82.13855519	-3854	0.386449133	690483.0724	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	9	Good	Slight	Operations	Partly cloudy	40	On
V9	Initial	Atlantis	2018-06-25T16:40:50.4	Naked eye		Atlantic spotted dolphin	3,000	Terra Hanks	Body	4	3	2	ND	Surface-active travel	Breach	None	Small dolphin with mostly gray body and some spots. The dorsal fin was small and falcate.	The seismic array was operating, but they never entered within the 578 m zone even when they doubled back and swam towards us.	38 06 25.0 N, 38 01 15.9 W	38 05 36.4 N, 37 59 29.0 W	38.09344644	-37.99138311	1078.036208	-3842	1.785224327	601873.6372	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	9	Good	Slight	Operations	Partly cloudy	40	On
V9	Subsequent	Atlantis	2018-06-25T16:44:38.1	Naked eye		Atlantic spotted dolphin	2,000	Terra Hanks	Splash	4	4	4	ND	Surface-active travel	Breach	None			38 06 16.7 N, 38 00 53.7 W	38 06 25.7 N, 37 59 32.2 W	38.10712939	-37.99228058	1432.847471	-3855	1.673037411	600505.1215	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	9	Good	Slight	Operations	Partly cloudy	40	On
V9	Subsequent	Atlantis	2018-06-25T16:49:11.9	Naked eye		Atlantic spotted dolphin	1,500	Terra Hanks	Body	12	12	12	ND	Surface-active travel	Breach	Direction of travel	They were swimming away from the boat as the boat turned.		38 05 56.7 N, 38 00 40.6 W	38 06 21.0 N, 37 59 47.1 W	38.10582231	-37.99641821	1326.504996	-3855	1.673008322	600893.1409	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	9	Good	Slight	Operations	Partly cloudy	40	On
V9	Subsequent	Atlantis	2018-06-25T16:52:59.2	Naked eye		Atlantic spotted dolphin	600	Terra Hanks	Splash	12	12	12	1	Surface-active travel	Breach	Direction of travel	One pair seen with one individual being significantly smaller than the adult-determined as a calf. They changed direction again.		38 05 38.4 N, 38 00 37.8 W	38 05 48.4 N, 38 00 16.6 W	38.09678896	-38.00461442	522.0070253	-3806	1.894109801	601859.1899	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	9	Good	Slight	Operations	Partly cloudy	40	On
V9	Subsequent	Atlantis	2018-06-25T16:59:52.0	Naked eye		Atlantic spotted dolphin	800	Terra Hanks	Body	12	12	12	1	Surface-active travel	Breach	None			38 05 5.2 N, 38 00 31.9 W	38 05 27.9 N, 38 00 15.9 W	38.09107077	-38.00442149	482.4550189	-3795	1.857280123	603043.3951	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	9	Good	Slight	Operations	Partly cloudy	40	On
V9	Subsequent	Atlantis	2018-06-25T17:23:34.9	Naked eye		Atlantic spotted dolphin	4,000	Terra Hanks	Body	12	12	12	1	Surface-active travel	Breach	None			38 03 6.8 N, 38 00 30.0 W	38 05 9.6 N, 37 59 37.8 W	38.08598803	-37.99382629	788.5761379	-3842	1.785065233	602306.6549	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	1	9	Good	Slight	Operations	Partly cloudy	40	On
V90	Initial	Atlantis	2018-07-02T13:41:42.3	Naked eye		Loggerhead turtle	50	Joshua Domenico	Body	1	1	1	0	Surface-active mill	Unknown	None	Saw a very beautiful reddish tannish colored loggerback with very defined ridges. Had about a 12 to 16 inch circumference. Massive head came up and breathed about twice in the few minutes. I spotted it. It was swimming somewhat around in circles. Once or twice towards the vessel. Went down along the port side of vessel.	Seismic not a factor due to switching arrays	43 48 36.4 N, 37 49 26.4 W	43 48 37.8 N, 37 49 27.4 W	43.81050232	-37.82427956	33.2940833	-4096	0.727021719	717188.5389	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	9	Good	Moderate	Deployment	Clear	40	Off
V91	Initial	Atlantis	2018-07-02T18:39:17.2	Naked eye		Sperm whale	200	Rachel Wachtendonk	Body	1	1	1	0	Travel	Unknown	Dive	Saw a smooth grey whale with a small flattened triangular dorsal fin. The animal did not have any markings or coloration. It was roughly 7 m in length. It came up twice, 4 sec apart, and then must have dove as I did not see it again. Dan saw the blow which was short and bushy. He did not see if it was at an angle.	The animal was in the buffer zone and was traveling out. I notified Houston that an animal was in the buffer zone and to stand by for a shutdown, but the whale did not reappear and thus no shutdown was needed.	44 09 20.9 N, 37 49 29.4 W	44 09 27.3 N, 37 49 28.0 W	44.15757158	-37.82444936	26.4948713	-4197	1.346427775	741269.9862	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	9	Good	Moderate	Operations	Clear	30	On
V92	Initial	Atlantis	2018-07-03T08:24:19.0	Naked eye		Atlantic white-sided dolphin	300	Terra Hanks	Body	30	60	45	2	Surface-active travel	Porpoising	None	Large pod of gray dolphins with a dark dorsal and bright white streak on their side. Fast traveling with 1 to 2 body lengths apart. 1 to 2 body lengths height out of the water as well.	No seismic; Amy (2nd mate) spotted them.	46 15 42.2 N, 38 00 31.9 W	46 15 48.4 N, 38 00 21.1 W	46.26344585	-38.00587385	252.6792839	-4592	0.651985402	917196.6711	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	0	Poor	None	Underway	Heavy fog	100	Off
V92	Subsequent	Atlantis	2018-07-03T08:27:35.1	Naked eye		Atlantic white-sided dolphin	800	Terra Hanks	Body	30	60	45	2	Surface-active travel	Porpoising	None			46 16 18.0 N, 38 00 40.0 W	46 15 52.5 N, 38 00 33.5 W	46.26458638	-38.00931453	8.237808461	-4592	0.651988529	917464.12	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	0	Poor	None	Underway	Heavy fog	100	Off
V93	Initial	Atlantis	2018-07-03T08:49:52.0	Naked eye		Short-beaked common dolphin	80	Terra Hanks	Body	2	2	2	1	Surface-active travel	Porpoising	Dive	Appeared to be a mother and calf cutting across our bow. Calf was all gray and at least 1/2 the size of the other if not smaller. Adult had cream-colored swath along with gray and white down the side.	No seismic	46 20 22.4 N, 38 01 35.8 W	46 20 24.8 N, 38 01 34.4 W	46.3402354	-38.02622961	39.90322507	-4534	0.633746507	923922.7786	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	0	Poor	None	Underway	Heavy fog	100	Off

Cetacean and Sea Turtle Occurrences in the Remote Mid-Atlantic

V94	Initial	Atlantis	2018-07-03T11:13:47.1	Naked eye		Unid. dolphin or porpoise	20	Rachel Wachtendonk	Dorsal	2	2	2	0	Surface-active travel	Porpoising	None	Saw two grey dorsal fins approaching the vessel. I could not discern coloration or marks on the animals. They appeared to be about 2 m in length and fairly slender. I did not get a good enough look to ID animals. They swam towards the boat, but then I was unable to spot them again. I checked the bow and they were not bowriding.	No seismic	46 46 16.5 N, 38 06 44.8 W	46 46 16.6 N, 38 06 43.9 W	46.77127147	-38.11218062	19.99098888	-4530	0.356249642	966033.5876	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	0	Poor	None	Underway	Heavy fog	100	Off
V95	Initial	Atlantis	2018-07-03T12:53:17.5	Naked eye		Pilot whale spp.	100	Joshua Domenico	Dorsal	4	6	4	0	Surface-active mill	Unknown	None	Spotted the pilot whales off of starboard side. Distinctive dorsal broad at base curved back into almost a loop. Animals about 3 m long.	No seismic array in water	47 03 19.5 N, 38 10 23.1 W	47 03 20.6 N, 38 10 18.7 W	47.05573591	-38.17185457	95.95108524	-4569	0.402582589	993809.2055	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	0	Poor	None	Underway	Heavy fog	100	Off
V96	Initial	Atlantis	2018-07-03T12:56:06.7	Naked eye		Short-beaked common dolphin	75	Joshua Domenico	Body	3	3	3	3	Surface-active travel	Porpoising	None	Spotted SBCD off of port side. Very distinct striping of yellow has given them away. Very small, so assumingly they were juveniles.	Assuming they went to bow ride but cannot tell due to inclement weather.	47 03 47.9 N, 38 10 26.8 W	47 03 49.9 N, 38 10 28.9 W	47.06386584	-38.17469128	35.83291305	-4561	0.496436696	993862.6116	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	4	0	Poor	None	Underway	Heavy fog	100	Off
V97	Initial	Atlantis	2018-07-03T15:15:02.6	Naked eye		Short-beaked common dolphin	10	Terra Hanks	Body	4	4	4	1	Surface-active travel	Porpoising	Dive	Cream gray and white sighted porpoising out of the water swimming less than a body length apart.	No seismic	47 27 42.5 N, 38 11 56.3 W	47 27 42.6 N, 38 11 56.8 W	47.46182085	-38.19910712	9.075577294	-4670	1.015731844	1032854.203	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	2	4	Poor	None	Underway	Light Rain	100	Off
V98	Initial	Atlantis	2018-07-03T17:07:30.9	Naked eye		Short-beaked common dolphin	15	Terra Hanks	Body	9	15	9	0	Surface-active travel	Bow riding	Dive	Cream gray and white sided dolphins porpoising all along the starboard side. 2 sets of 2 individuals and one group of 3 swimming less than one body length apart. 2 lone dolphins approx. 50 m away from the pairs. Breached 2 to 4 times and then bow roared for 15 sec and then dove.		47 47 17.0 N, 38 16 54.1 W	47 47 17.4 N, 38 16 54.1 W	47.78817989	-38.28170158	2.573778323	-4469	0.506390176	1064392.331	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	4	Moderate	None	Underway	Overcast	99	Off
V99	Initial	Atlantis	2018-07-03T22:24:44.7	Naked eye		Fin whale	600	Joshua Domenico	Blow	1	1	1	ND	Surface-active travel with visible blows		None	Saw three very cylindrical columnar blows. At the closer distance, it would not be big enough for a blue whale blow but has the shape and height of a fin whale. About three 2 m tall blows.		48 46 37.4 N, 38 31 32.9 W	48 46 34.4 N, 38 31 3.8 W	48.77621227	-38.51773111	564.3153196	-4269	0.526087197	1165234.13	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	4	Good	None	Underway	Overcast	99	Off
V99	Subsequent	Atlantis	2018-07-03T22:25:49.2	Naked eye		Fin whale	800	Joshua Domenico	Blow	1	1	1	ND	Surface-active travel with visible blows		None	Two blows a little more misty.		48 46 49.7 N, 38 31 36.3 W	48 46 33.4 N, 38 31 5.7 W	48.775947	-38.51826231	535.8230967	-4269	0.526087192	1165230.531	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	4	Good	None	Underway	Overcast	99	Off
V99	Subsequent	Atlantis	2018-07-03T22:29:14.7	Naked eye		Fin whale	1,200	Joshua Domenico	Blow	1	1	1	ND	Surface-active travel with visible blows		None	One misty blow		48 47 29.8 N, 38 31 46.4 W	48 46 53.6 N, 38 31 25.2 W	48.78154312	-38.52367572	191.2371624	-4252	0.556971902	1167608.76	1 arc-min(s)	Worldwide Bedrock (1 arc-min)	3	4	Good	None	Underway	Overcast	99	Off