



Eddystone Reefs Project 2019



Survey field report for the 2019 Eddystone Reefs Drop Down Video Survey Boxes 1 to 3.

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CIFCA_SAC_Edd_2019_DDV_Boxes1-3

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Summary

This report summarises the operations and data acquired during the 2019 drop down video (DDV) survey of the three project survey areas, located inside and outside of the Eddystone Reefs part of the Plymouth Sound to Start Point and Eddystone Special Area of Conservation (SAC). The survey was carried out over two days, on the 25th June and the 2nd July 2019.

The aim of the survey was to collect high quality video and still imagery from three identically sized survey boxes to enable a comparison of the epifaunal assemblages to be made following the prohibition of bottom towed fishing gear in the area of the treatment box (Box 1). Video and stills data was successfully collected from all three survey boxes, with six successful tows in each box. Two of the tows in Box 1 were split into two sections, due to hitches interrupting the tow. In total 20 video tows were completed which provided 7 hours and 28 minutes of video and 432 still images. Sea conditions were favourable throughout the survey.

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1 Background and Introduction

Cornwall Inshore Fisheries and Conservation Authority (Cornwall IFCA), the Marine Conservation Society (MCS) and the University of Exeter Environment Sustainability Institute (ESI), are collaborating on a study in the Eddystone reefs (Figure 1) part of the Start Point to Plymouth Sound and Eddystone Special Area of Conservation (SAC). The project was initially funded by the Pigshed Trust between 2014 and 2016. Princess Yachts International of Plymouth has committed to continue funding the project from 2017 to 2019.

The aim of this study is to collect data over time to enable a comparison of the epifaunal assemblages by statistical analysis within areas that are open and closed to bottom towed gear using a treatment and two control survey boxes. The closure to bottom towed gears in parts of the Eddystone Reefs area of the Start Point to Plymouth Sound and Eddystone SAC was a result of the European Marine Site management measures that were introduced in January 2014 under the Closed Areas (European Marine Sites) No 2 Byelaw. The work carried out in 2019 was the sixth year of the study and replicated the previous year's survey. The data was from one treatment area that is within an area closed to bottom towed gears (Box 1) and two control areas where towed gears are allowed (Boxes 2 and 3) (Figure 1). Box 2 is close to the treatment area and Box 3 is further away. All sites were selected due to their similarity; they all have similar bathymetry, reef to the western side and have all been/are subject to towed gears.

1.1 Aims & Objectives

1.1.1 Aims

- Collect high quality video and still imagery from three identically sized survey boxes to enable a comparison of the epifaunal assemblages to be made following the prohibition of bottom towed fishing gear in the area of the treatment box (Box 1).

1.1.2 Objectives

- Complete drop down video (DDV)/ stills imagery survey using the mapping European seabed habitats recommended operating guidelines for underwater video surveys (Coggan, 2007).
- Repeat camera tows carried out in 2014, 2015, 2016, 2017 and 2018 where possible.

2 Survey Operations

The survey was undertaken aboard the Research Vessel (R/V) Tiger Lily VI. Details of the vessel and the equipment used are provided in Appendix 1. Survey operations and protocols are described below.

2.1 Personnel

The survey on the 25th June 2019 consisted of four Scientific Officers, one visiting project partner from the MCS and an independent skipper. The survey on the 2nd July 2019 consisted of three Scientific Officers and an independent skipper.

2.2 Personal Protective Equipment (PPE)

While working on deck all crew were required to wear lifejackets, personal location beacons (PLBs) and steel toe cap boots. Hard hats were worn during deployment and recovery of the DDV. There were no reported accidents or near misses on the day.

3 Methodology

Video and digital still imagery was acquired using a STR SeaSpyder drop camera system (Appendix 1). The survey was carried out in line with Mapping European Seabed Habitats (MESH) recommended operating guidelines for underwater video and photographic imaging techniques (MESH, 2008).

High definition footage of the seabed (with scaling lasers and dedicated lighting) was acquired, using the downward facing camera, in three survey boxes. Previous survey positions were already programmed into the vessel's Olex navigation plotter for navigation purposes. Six tows were completed in each survey box, following lines surveyed in previous years where possible.

Prior to the deployment of the SeaSpyder for each tow, the video text overlay was checked and adjusted to display the survey name and tow number (e.g. "Cornwall IFCA_25/06/2019. Edd_DD V T1") and the GPS, heading and depth info was checked to ensure that it was updating correctly. The .jpeg file name prefix was checked and adjusted to display the survey name, tow number, time (UTC) and automatic image number (e.g. "CIFCA_Edd_1_T120190625__12_55_55__0148.JPG"). The SeaSpyder camera was deployed through the A-Frame at the stern of Tiger Lily and attached securely to the starboard side of the vessel between tows.

The video was set to record once the camera was just above the seabed. Com Port A was set to log to record all positional information from the Furuno Navigation system (Lat/ Long WGS84) for the entire tow. A target was created in Hypack Max Version 2018 to indicate the start of line (SOL); this was repeated at the end of line (EOL). The SeaSpyder was 'flown' with the frame legs just above the seabed for the tow. The camera frame was landed on the seabed every minute for a still image to be captured. Image separation varied slightly to ensure that the stills taken were of good quality (e.g. taken when the camera was focused on the seabed and the lens unobstructed) this

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sometimes led to a delay. Immediately upon having captured a still image a target was created in Hypack. Field notes were recorded for each target in Hypack such as survey box and tow number, speed over ground and real-time observations of substrate and taxa (comma delimited). The camera was recovered and securely lashed to the starboard side of Tiger Lily in between each tow.

4 Data handling and analysis

Hypack targets were used in data processing to obtain exact still image locations. All position information was recorded in the Long/Lat WGS84 projection and taken from a single GPS (Furuno GP-32). GPS fixes were recorded using the Furuno Navigation system on Tiger Lily. Hypack targets were extracted as a .txt file format and opened in Microsoft Excel (comma delimited). Com Port A data was logged for the duration of each tow and saved in a .txt file format to the Topside PC. Once opened in Microsoft Excel these files had the GGA strings extracted to create a track file for each tow. Times and GPS locations were then extracted from the GGA string and position data converted from degrees and decimal minutes to a decimal degree format. Appropriate headers were then added. The Hypack target data for each tow was transferred to MapInfo Professional Version 17.0.2 and points were created to show the position of each still image and SOL/ EOL.

Stills images from the SeaSpyder camera were initially stored on the internal computer (sub-surface), then on completion of each tow the still images were transferred to the SeaSpyder topside control unit using FileZilla and filed by tow number. Video files were captured to the SeaSpyder topside unit data drive (D:/). The stills, video files and log sheets were transferred from the topside unit to a WD Passport for transport and storage at the end of each survey day.

5 Cruise Narrative

All times are Universal Time Coordinated (UTC).

25th June 2019

R/V Tiger Lily departed Mylor at 06:26 on the 25/06/2019, with four Scientific Officers, a project partner from the MCS and an independent skipper on board. The vessel transited to Survey Box 3 and at 08:04 the camera was deployed into the water. The first tow began at 08:11 and concluded at 08:35, with 23 still images captured. The second video tow ran from 08:46 to 09:11 with 24 stills captured and the third tow from 09:29 to 09:54 with 24 stills captured. All tows were completed smoothly with no hitches and at approximately 10:00 Tiger Lily departed the site for Survey Box 2. The three tows in Box 2 ran smoothly and were conducted at 10:12, 11:04 and 11:42. 26 stills were captured on the first tow, 24 on the second tow and 25 on the third tow. After the camera was recovered at 12:06 the vessel made way to Survey Box 1.

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The first tow in Survey Box 1 started at 12:54 and at 13:09 the camera became tangled with fishing gear. At 13:13 the camera was recovered to the vessel and an end of line mark created. At 13:15 the camera was redeployed and tow 1B ran from 13:20 to 13:34. In total 28 images were captured, 15 on tow 1 and 13 on tow 1B. The second tow was conducted from 13:46 to 14:14 and 29 images were captured. The third tow ran from 14:29 to 14:53 and 24 images were captured. The camera was recovered to deck by 15:04 and Tiger Lily departed for Mylor, arriving alongside at 17:45.

2nd July 2019

R/V Tiger Lily departed Mylor at 06:15 on the 02/07/2019, with three Scientific Officers and an independent skipper on board. The vessel transited to Survey Box 3 and at 07:50 the camera was deployed into the water. Tow 4 began at 07:55 and suffered three communications failures. Each time comms were re-established approximately 1 minute later. Tow 4 concluded at 08:21 with 22 stills taken. The cable and line on the camera were checked and re-taped which seemed to reduce the instances of lost communication. Tow 5 began at 08:35 and concluded at 08:59 with 24 images. Tow 6 began at 09:15 and finished at 09:38 with 23 still images captured. Tiger Lily then departed for Survey Box 2. Hypack track logging was turned on at this point. The three tows in Box 2 (tow 4, 5 and 6) ran smoothly and were conducted at 10:14, 10:50 and 11:24. 23 images were captured during each tow. After the camera was recovered at 12:10 the vessel made way to Survey Box 1.

The first tow in Survey Box 1 (tow 4) started at 12:43 and at 13:02 communications with the camera were lost. Communication to the camera was re-established at 13:03 and the tow concluded at 13:06 with 23 images captured. Tow 5 started at 13:20 and at 13:36 the camera became hitched on fishing gear. At 13:37 the camera was recovered to the surface and an end of line mark created. At 13:43 the previous survey line was continued and labelled as Tow 5B, concluding at 13:51. In total 28 still images were captured, 20 during the first part of the tow and 8 during tow 5B. Tow 6 began at 14:04 and at 14:24 the camera became hitched on a line of fishing pots. At 14:26 the camera was brought to the surface and freed from the line. Twenty still images had been captured at this point so it was decided to end the survey line and a mark was created in Hypack at 14:29. The camera was recovered to the deck and at 14:45 Tiger Lily departed the survey site. On the return journey survey work for another project was completed in Veryan Bay and at 18:00 Tiger Lily was back alongside at Mylor.

During the survey on the 2nd July 2019 it was noticed that the UTC time in the image file name was approximately 5 seconds ahead of the UTC time from the GPS source. The time on the survey laptops was synchronised with the GPS time before the survey commenced and it is not clear why this difference occurred.

6 Data acquisition

Seabed imagery was acquired for later assessment of the benthic epifaunal community within three survey boxes in the Start Point to Plymouth Sound and Eddystone SAC (Figure 1).

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A drop down camera system was deployed at 18 stations, six in each survey box. High definition video footage and digital still images were captured during a single drop camera deployment at 16 of the stations. Two camera drops were required at two of the stations, after the camera became hitched (Figure 2, Figure 3 and **Error! Reference source not found.**). For each station video was recorded for a minimum length of 21 minutes. The camera frame was landed on the seabed every minute and a still image taken. For equipment specifications see Appendix 1. Video footage and still images collected are summarised in Appendix 2 and Appendix 3. The daily logs are shown in Appendix 4.

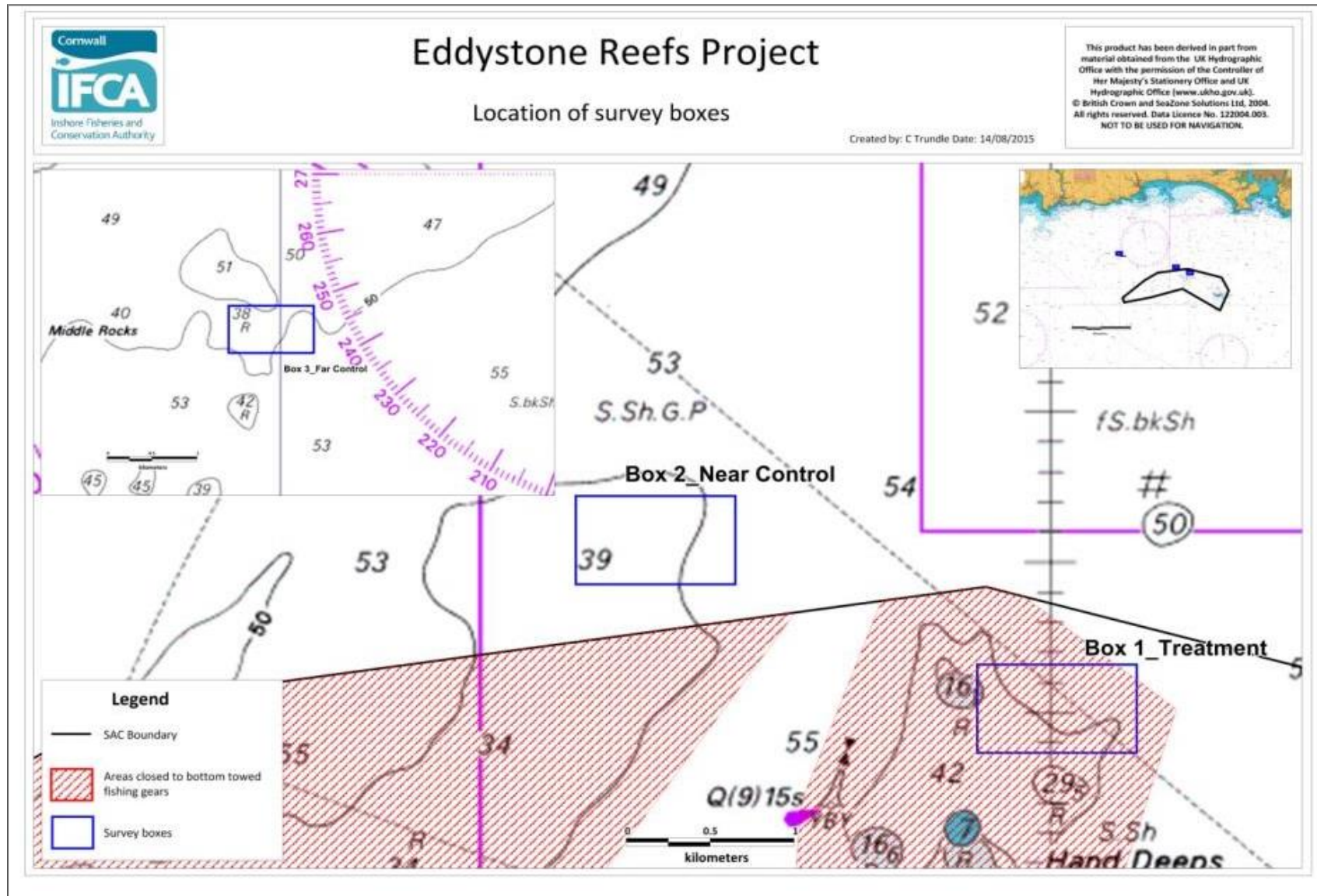


Figure 1: Location of the three survey boxes within the Start Point to Plymouth Sound and Eddystone SAC.

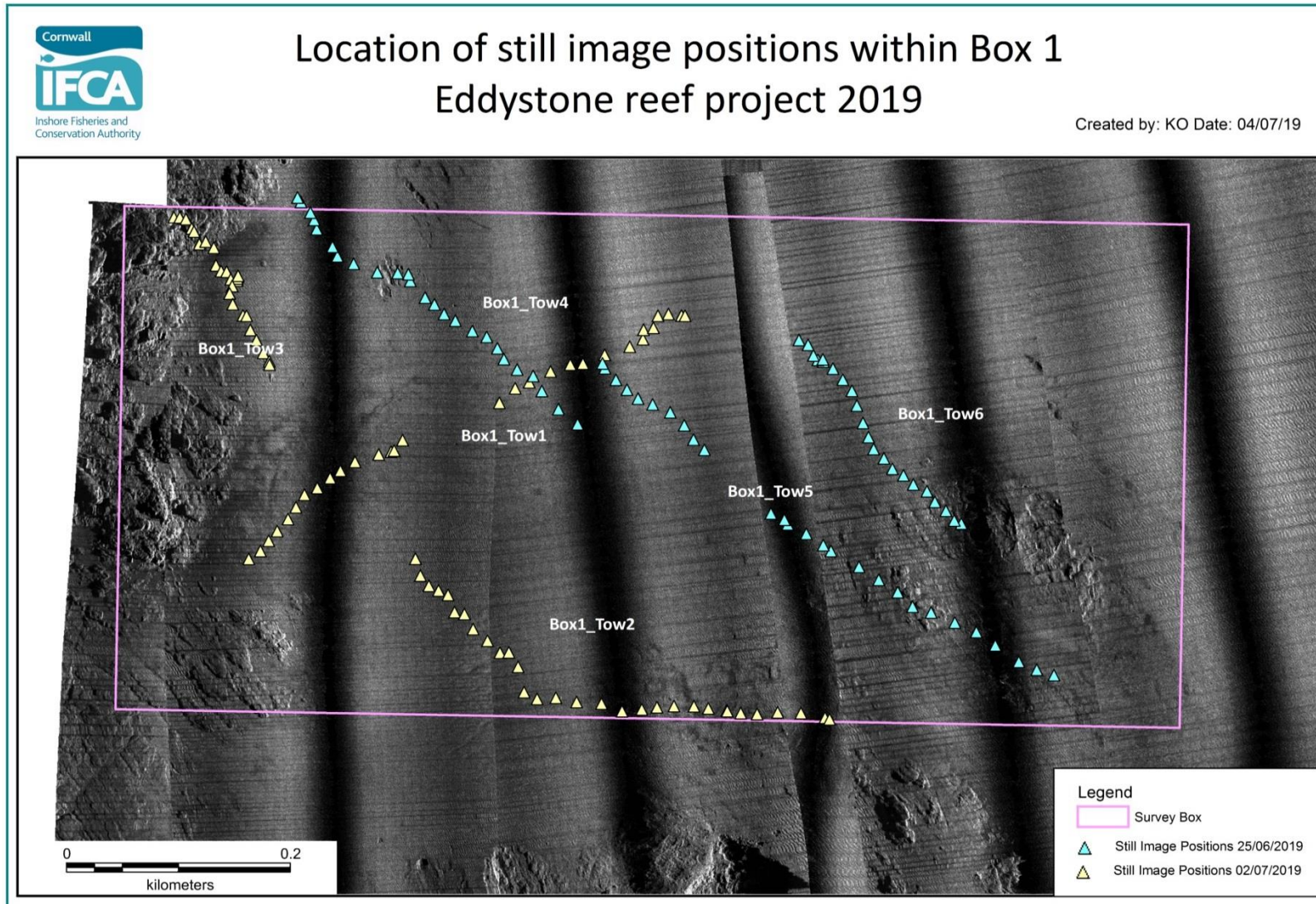


Figure 2: Location of still images taken in Survey Box 1 by Cornwall IFCA on the 25/06/2019 and the 02/07/2019.

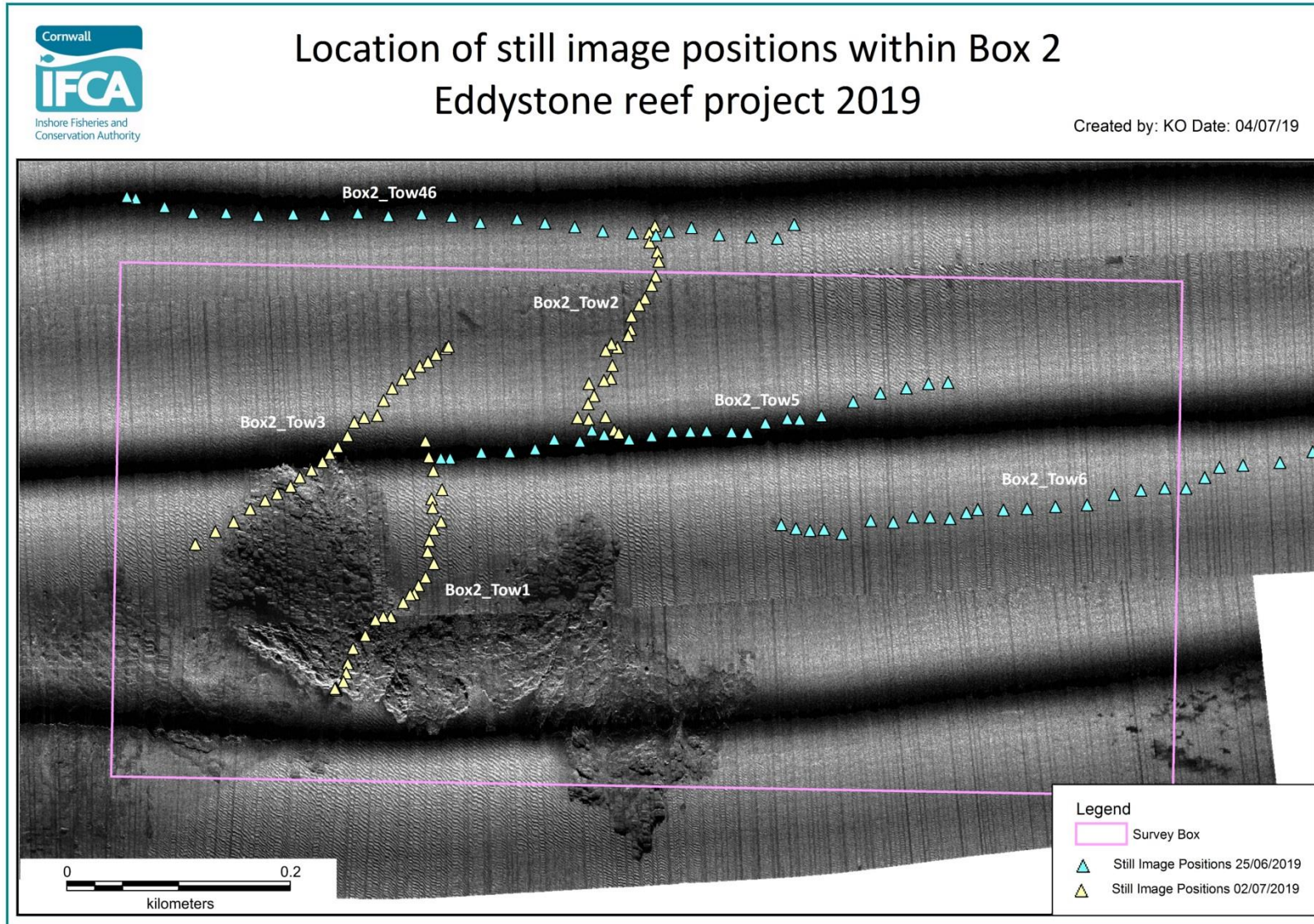


Figure 3: Location of still images taken in Survey Box 2 by Cornwall IFCA on the 25/06/2019 and the 02/07/2019.

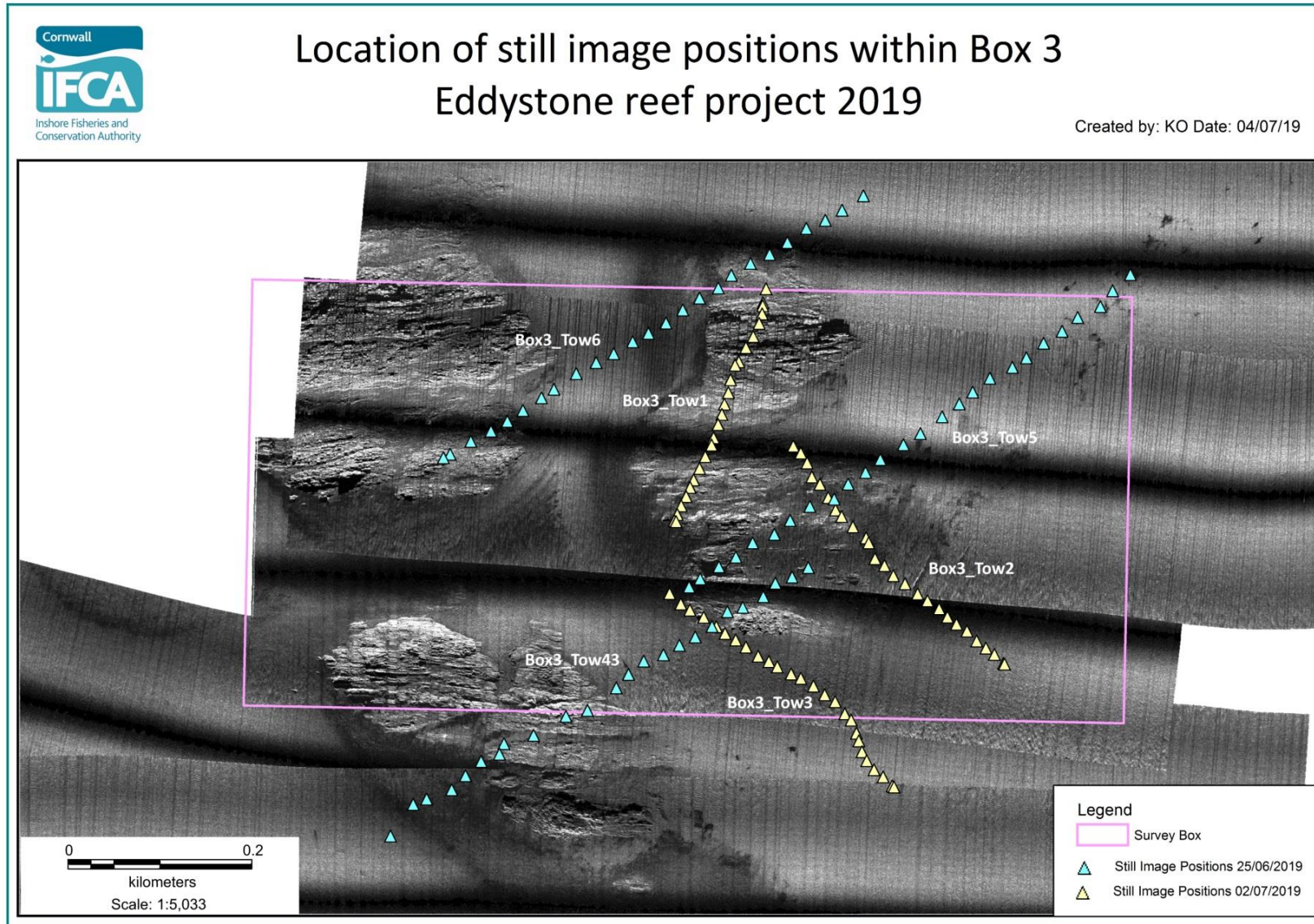


Figure 4: Location of still images taken in Survey Box 3 by Cornwall IFCA on the 25/06/2019 and the 02/07/2019

7 References

Coggan, R., Mitchell, A., White, J. and Golding, N. 2007. Recommended operating guidelines (ROG) for underwater video and photographic imaging techniques. Report number: Video ROG v11, Affiliation: MESH, DOI: 10.13140/RG.2.1.1919.9206

8 Appendices

Appendix 1. Vessel and equipment used

R/V Tiger Lily VI

The survey was undertaken from Cornwall IFCA's Research Vessel (R/V) Tiger Lily VI (Annex Figure A). Tiger Lily VI is an MCA coded Cat 2 vessel. The vessel has been refitted for survey work and includes a purpose built survey station within the wheelhouse. R/V Tiger Lily VI has been fitted with an inverter and uninterruptable power supply (UPS) to provide stable, continuous 240 v power, NMEA outputs and a dedicated GPS with WAAS enabled. All times are recorded as UTC and taken from the same source as the position data. The clocks on all of the data capture PCs were synched prior to departing the vessel's mooring.



Annex Figure A: Cornwall IFCA's dedicated survey vessel, R/V Tiger Lily VI.

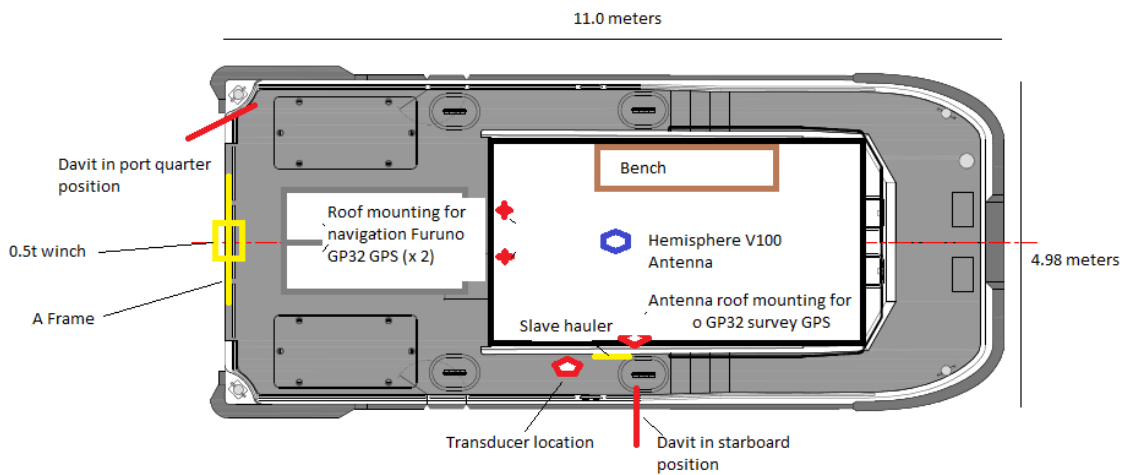
Builder	South Boats Ltd
Model	Island MkII
Built	2007
LOA	11.0m
Beam	4.98m
Draught	1.1m (aft)
Tonnage	c.10 tonnes
Area of operation	MCA Category 2
Call sign	MRWR7
MMSI Number	235054954
MECAL Certification number	M07WB0111059
Complement	14 (including min 2 crew)
Propulsion	2 x 450hp Iveco NEF series
Speed	Cruising: 16 – 18 knots Top: 24 – 26 knots
Range	c. 400 nautical miles

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240v AC supply	Victron 3Kw power inverter 5KvA Volvo-Perkins generator (All 240 AC power is accessed via APC Smart UPS C1500)
Stern Gantry	500kg SWL
Winch (on stern gantry)	Spencer Carter 0.5t with scrolling level wind
Slave hauler	Sea Winch 200m dia.
Electric line hauler	12v Spencer Carter Bandit
Positioning	Hemisphere V100 GNSS 3 x Furuno GP32
NMEA data outputs	4 x USB 4 x Serial 4 x banjo
Navigation	Olex with data export Knockle Hypack Max

Positioning Software and Offsets

Tiger Lily VI General Layout - Plan view



Equipment			Offset (m)		
NMEA Device	Make/Model	Offset Name	X (f'wd)	Y (port)	Z (+/-)
Sounder	Furuno Navnet	Transducer	7.0	4.2	-0.5
GPS	Furuno GP32	GPS 1	5.5	2.5	+3
GNSS	Hemisphere V100	GNSS 1	5.0	2.5	+2.35

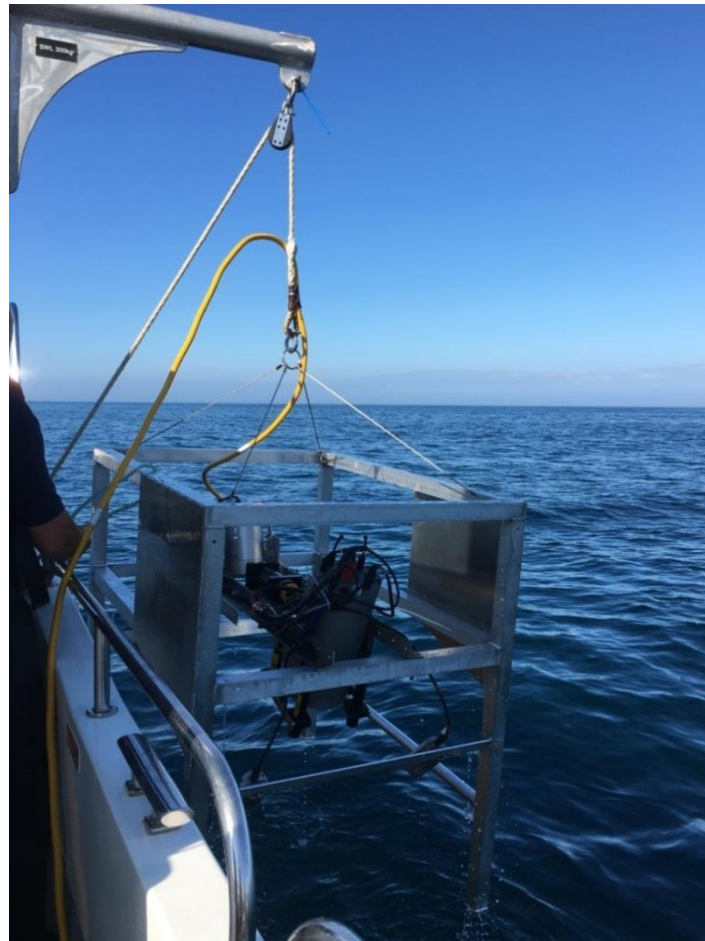
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STR SeaSpyder drop camera system

Details of the system are available online: <http://www.str-subsea.com/sales/str-SeaSpyder-drop-camera-system>.

Annex Figure B shows the camera system on the starboard side of R/V Tiger Lily.

Equipment	Camera System
Manufacturer	Subsea Technology & Rentals Ltd
Video	HD video 600 lines PAL
Stills	18 mega pixels
Height control	Video footage
Lighting	Four high density LED 20w lamps
Image scaling	4 Dual lasers for precise imagery scaling
Shutter control	Remote from deck
Additional info	<ul style="list-style-type: none"> • Full remote control of camera functions including automatic and manual focus control • 'On-the-fly' image download • High speed digital telemetry link to camera and sensors • High power underwater flash • Inbuilt compass and depth sensors



Annex Figure B: Drop Down Video mounted camera system and frame used onboard R/V Tiger Lily for the Eddystone Reefs Survey 2019

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Appendix 2. Video position data

Cornwall IFCA		Video Positioning Summary										
Area		Eddystone Reef	Project name		2019 Eddystone Reefs Project							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Sample type	Box	Video ID	Date	Time SOL (UTC)	Time EOL (UTC)	SOL Latitude (decimal degrees)	SOL Longitude (decimal degrees)	EOL Latitude (decimal degrees)	EOL Longitude (decimal degrees)	Video length (hh:mm:ss)	Number of stills pre QC	Number of still post initial QC
Camera	1 T1	2019_176_12_54_47.avi	25/06/2019	12:54	13:07	50.215455	-4.337940	50.216452	-4.336037	00:19:45	15	14
Camera	1 T1B	2019_176_13_20_44.avi	25/06/2019	13:20	13:34	50.216773	-4.334833	50.217515	-4.332523	00:13:21	13	13
Camera	1 T2	2019_176_13_46_20.avi	25/06/2019	13:46	14:14	50.215480	-4.335848	50.214220	-4.330617	00:28:30	29	29
Camera	1 T3	2019_176_14_29_05.avi	25/06/2019	14:29	14:53	50.218253	-4.338957	50.217055	-4.337723	00:24:23	24	24
Camera	1 T4	2019_183_12_43_36.avi	02/07/2019	12:43	13:06	50.216610	-4.333845	50.218432	-4.337410	00:23:16	23	23
Camera	1 T5	2019_183_13_20_36.avi	02/07/2019	13:20	13:37	50.214615	-4.327815	50.215855	-4.331230	00:16:45	15	15
Camera	1T5B	2019_183_13_43_08.avi	02/07/2019	13:43	13:51	50.216417	-4.332250	50.217113	-4.333548	00:08:13	8	7
Camera	1 T6	2019_183_14_04_18.avi	02/07/2019	14:04	14:29	50.215848	-4.329010	50.217177	4.330785	00:25:31	20	20
Camera	2 T1	2019_176_10_22_59.avi	25/06/2019	10:23	10:49	50.225917	-4.369263	50.223913	-4.370343	00:26:32	26	25
Camera	2 T2	2019_176_11_04_00.avi	25/06/2019	11:04	11:28	50.227682	-4.366427	50.226010	-4.366832	00:24:23	24	24
Camera	2 T3	2019_176_11_42_54.avi	25/06/2019	11:42	12:06	50.225053	-4.372133	50.226682	-4.368995	00:23:22	25	23
Camera	2 T4	2019_183_10_14_11.avi 2019_183_10_31_41.avi	02/07/2019	10:14	10:37	50.227713	-4.364678	50.227838	-4.373073	00:17:29 00:05:48	23	23

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Cornwall IFCA			Video Positioning Summary									
Area		Eddystone Reef	Project name		2019 Eddystone Reefs Project							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Sample type	Box	Video ID	Date	Time SOL (UTC)	Time EOL (UTC)	SOL Latitude (decimal degrees)	SOL Longitude (decimal degrees)	EOL Latitude (decimal degrees)	EOL Longitude (decimal degrees)	Video length (hh:mm:ss)	Number of stills pre QC	Number of still post initial QC
Camera	2 T5	2019_183_10_50_16.avi 2019_183_11_11_24.avi	02/07/2019	10:50	11:13	50.226465	-4.362706	50.225782	-4.369065	00:21:08 00:02:06	23	23
Camera	2 T6	2019_183_11_24_57.avi 2019_183_11_44_43.avi	02/07/2019	11:24	11:48	50.225962	-4.358107	50.225297	-4.364773	00:19:45 00:03:42	23	23
Camera	3 T1	2019_176_08_13_46.avi	25/06/2019	08:11	08:35	50.248900	-4.500218	50.246623	-4.501512	00:21:49	24	23
Camera	3 T2	2019_176_08_46_43.avi	25/06/2019	08:46	09:11	50.247378	-4.499755	50.245305	-4.496488	00:24:18	24	24
Camera	3 T3	2019_176_09_29_38.avi	25/06/2019	09:29	09:54	50.245925	-4.501588	50.244092	-4.498125	00:24:21	24	24
Camera	3 T4	2019_183_07_55_36.avi	02/07/2019	07:55	08:21	50.246203	-4.499493	50.243517	-4.505747	00:26:07	22	22
Camera	3 T5	2019_183_08_35_11.avi	02/07/2019	08:35	08:59	50.249108	-4.494697	50.245992	-4.501295	00:24:45	24	24
Camera	3 T6	2019_183_09_15_04.avi	02/07/2019	09:15	09:38	50.249820	-4.498770	50.247197	-4.505060	00:23:27	23	22

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Appendix 3. Still image positions**Survey Box 1**

Survey Box	Tow	File Name	Time (UTC)	Date	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Speed (knots)
1	1	CIFCA_Edd_1_T120190625__12_55_55__0148.JPG	12:55:56	25/06/2019	50.215522	-4.337795	51.9	0.3
1	1	CIFCA_Edd_1_T120190625__12_56_58__0149.JPG	12:56:58	25/06/2019	50.215607	-4.337693	52.8	0.5
1	1	CIFCA_Edd_1_T120190625__12_57_54__0150.JPG	12:57:53	25/06/2019	50.215688	-4.337590	51.8	0.5
1	1	CIFCA_Edd_1_T120190625__12_58_54__0151.JPG	12:58:55	25/06/2019	50.215787	-4.337455	53.1	0.4
1	1	CIFCA_Edd_1_T120190625__12_59_54__0152.JPG	12:59:54	25/06/2019	50.215885	-4.337360	53.1	0.4
1	1	CIFCA_Edd_1_T120190625__13_00_53__0153.JPG	13:00:52	25/06/2019	50.215990	-4.337255	52.7	0.4
1	1	CIFCA_Edd_1_T120190625__13_01_55__0154.JPG	13:01:55	25/06/2019	50.216048	-4.337095	53.1	0.4
1	1	CIFCA_Edd_1_T120190625__13_02_54__0155.JPG	13:02:54	25/06/2019	50.216130	-4.336938	52.9	0.4
1	1	CIFCA_Edd_1_T120190625__13_03_52__0156.JPG	13:03:52	25/06/2019	50.216193	-4.336810	52.9	0.3
1	1	CIFCA_Edd_1_T120190625__13_04_54__0157.JPG	13:04:55	25/06/2019	50.216268	-4.336630	53.3	0.9
1	1	CIFCA_Edd_1_T120190625__13_05_55__0159.JPG	13:05:55	25/06/2019	50.216332	-4.336333	53.3	0.8
1	1	CIFCA_Edd_1_T120190625__13_06_33__0160.JPG	13:06:42	25/06/2019	50.216355	-4.336177	53.3	
1	1	CIFCA_Edd_1_T120190625__13_06_57__0161.JPG	13:06:58	25/06/2019	50.216365	-4.336142	53.5	0.7
1	1	CIFCA_Edd_1_T120190625__13_07_54__0162.JPG	13:07:54	25/06/2019	50.216452	-4.336037	53.9	0.1
1	1B	CIFCA_Edd_1_T1B20190625__13_21_49__0163.JPG	13:21:51	25/06/2019	50.216895	-4.334638	54.1	0.5
1	1B	CIFCA_Edd_1_T1B20190625__13_22_50__0164.JPG	13:22:49	25/06/2019	50.216947	-4.334462	54	0.7
1	1B	CIFCA_Edd_1_T1B20190625__13_23_48__0165.JPG	13:23:48	25/06/2019	50.217038	-4.334198	54.1	0.5
1	1B	CIFCA_Edd_1_T1B20190625__13_24_49__0166.JPG	13:24:52	25/06/2019	50.217098	-4.333952	54	0.4
1	1B	CIFCA_Edd_1_T1B20190625__13_25_55__0167.JPG	13:25:54	25/06/2019	50.217108	-4.333792	54	0.7
1	1B	CIFCA_Edd_1_T1B20190625__13_26_52__0168.JPG	13:26:53	25/06/2019	50.217183	-4.333522	53.7	0.7
1	1B	CIFCA_Edd_1_T1B20190625__13_27_50__0169.JPG	13:27:49	25/06/2019	50.217253	-4.333210	53.9	0.7
1	1B	CIFCA_Edd_1_T1B20190625__13_28_52__0170.JPG	13:28:52	25/06/2019	50.217317	-4.333045	53.8	0.3
1	1B	CIFCA_Edd_1_T1B20190625__13_29_51__0171.JPG	13:29:51	25/06/2019	50.217395	-4.333040	53.7	0.3
1	1B	CIFCA_Edd_1_T1B20190625__13_30_50__0172.JPG	13:30:49	25/06/2019	50.217412	-4.332918	53.7	0.3
1	1B	CIFCA_Edd_1_T1B20190625__13_31_50__0173.JPG	13:31:57	25/06/2019	50.217512	-4.332863	53.7	0.3
1	1B	CIFCA_Edd_1_T1B20190625__13_32_48__0174.JPG	13:32:49	25/06/2019	50.217528	-4.332733	54.1	0.3

CIFCA_SAC_Edd_2019_DDV_Boxes1-3

1	1B	CIFCA_Edd_1_T1B20190625__13_33_51__0175.JPG	13:33:49	25/06/2019	50.217517	-4.332568	53.7	0.3
1	2	CIFCA_Edd_1_T2_20190625__13_47_33__0176.JPG	13:47:33	25/06/2019	50.215342	-4.335782	52.9	0.7
1	2	CIFCA_Edd_1_T2_20190625__13_48_26__0177.JPG	13:48:26	25/06/2019	50.215260	-4.335675	52.9	0.4
1	2	CIFCA_Edd_1_T2_20190625__13_49_27__0178.JPG	13:49:26	25/06/2019	50.215223	-4.335553	53	0.3
1	2	CIFCA_Edd_1_T2_20190625__13_50_26__0179.JPG	13:50:25	25/06/2019	50.215187	-4.335433	53	0.3
1	2	CIFCA_Edd_1_T2_20190625__13_51_27__0180.JPG	13:51:28	25/06/2019	50.215047	-4.335347	52.7	0.6
1	2	CIFCA_Edd_1_T2_20190625__13_52_26__0181.JPG	13:52:27	25/06/2019	50.215032	-4.335223	53.1	0.3
1	2	CIFCA_Edd_1_T2_20190625__13_53_26__0182.JPG	13:53:25	25/06/2019	50.214910	-4.335110	52.9	0.6
1	2	CIFCA_Edd_1_T2_20190625__13_54_29__0183.JPG	13:54:28	25/06/2019	50.214817	-4.334927	52.6	0.6
1	2	CIFCA_Edd_1_T2_20190625__13_55_27__0184.JPG	13:55:26	25/06/2019	50.214720	-4.334768	52.6	0.5
1	2	CIFCA_Edd_1_T2_20190625__13_56_25__0185.JPG	13:56:27	25/06/2019	50.214725	-4.334657	52.7	0.3
1	2	CIFCA_Edd_1_T2_20190625__13_57_24__0186.JPG	13:57:25	25/06/2019	50.214607	-4.334535	52.8	0.6
1	2	CIFCA_Edd_1_T2_20190625__13_58_28__0187.JPG	13:58:29	25/06/2019	50.214400	-4.334455	52.7	0.6
1	2	CIFCA_Edd_1_T2_20190625__13_59_27__0188.JPG	13:59:26	25/06/2019	50.214345	-4.334290	52.4	0.5
1	2	CIFCA_Edd_1_T2_20190625__14_00_30__0189.JPG	14:00:30	25/06/2019	50.214357	-4.334057	52.8	0.4
1	2	CIFCA_Edd_1_T2_20190625__14_01_26__0190.JPG	14:01:26	25/06/2019	50.214325	-4.333795	52.8	0.7
1	2	CIFCA_Edd_1_T2_20190625__14_02_26__0191.JPG	14:02:25	25/06/2019	50.214317	-4.333482	52.8	0.4
1	2	CIFCA_Edd_1_T2_20190625__14_03_26__0192.JPG	14:03:26	25/06/2019	50.214257	-4.333223	52.7	0.7
1	2	CIFCA_Edd_1_T2_20190625__14_04_27__0193.JPG	14:04:27	25/06/2019	50.214275	-4.332975	53	0.6
1	2	CIFCA_Edd_1_T2_20190625__14_05_27__0194.JPG	14:05:27	25/06/2019	50.214295	-4.332785	52.6	0.3
1	2	CIFCA_Edd_1_T2_20190625__14_06_25__0195.JPG	14:06:27	25/06/2019	50.214307	-4.332573	52.8	0.8
1	2	CIFCA_Edd_1_T2_20190625__14_07_25__0196.JPG	14:07:27	25/06/2019	50.214307	-4.332323	53	0.4
1	2	CIFCA_Edd_1_T2_20190625__14_08_26__0197.JPG	14:08:25	25/06/2019	50.214293	-4.332140	52.9	0.5
1	2	CIFCA_Edd_1_T2_20190625__14_09_15__0198.JPG	14:09:19	25/06/2019	50.214280	-4.331907	53.4	
1	2	CIFCA_Edd_1_T2_20190625__14_09_26__0199.JPG	14:09:28	25/06/2019	50.214273	-4.331902	53.5	0.4
1	2	CIFCA_Edd_1_T2_20190625__14_10_32__0200.JPG	14:10:31	25/06/2019	50.214258	-4.331735	53.2	0.9
1	2	CIFCA_Edd_1_T2_20190625__14_11_27__0201.JPG	14:11:26	25/06/2019	50.214253	-4.331527	53.4	0.4
1	2	CIFCA_Edd_1_T2_20190625__14_12_27__0202.JPG	14:12:27	25/06/2019	50.214270	-4.331272	53	0.6
1	2	CIFCA_Edd_1_T2_20190625__14_13_26__0203.JPG	14:13:27	25/06/2019	50.214268	-4.330978	53.6	0.2
1	2	CIFCA_Edd_1_T2_20190625__14_14_26__0204.JPG	14:14:26	25/06/2019	50.214232	-4.330675	53.4	0.3

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1	3	CIFCA_Edd_1_T3_20190625__14_30_12__0205.JPG	14:30:12	25/06/2019	50.218252	-4.338883	38.3	0.2
1	3	CIFCA_Edd_1_T3_20190625__14_31_26__0206.JPG	14:31:25	25/06/2019	50.218238	-4.338805	38.8	0.2
1	3	CIFCA_Edd_1_T3_20190625__14_32_17__0207.JPG	14:32:17	25/06/2019	50.218162	-4.338732	39.4	0.2
1	3	CIFCA_Edd_1_T3_20190625__14_33_14__0208.JPG	14:33:14	25/06/2019	50.218138	-4.338702	38.9	0.3
1	3	CIFCA_Edd_1_T3_20190625__14_34_12__0209.JPG	14:34:11	25/06/2019	50.218035	-4.338632	39.6	0.2
1	3	CIFCA_Edd_1_T3_20190625__14_35_18__0210.JPG	14:35:18	25/06/2019	50.218057	-4.338552	40.3	0.2
1	3	CIFCA_Edd_1_T3_20190625__14_36_17__0211.JPG	14:36:14	25/06/2019	50.218007	-4.338450	43.3	0.2
1	3	CIFCA_Edd_1_T3_20190625__14_37_19__0212.JPG	14:37:20	25/06/2019	50.217863	-4.338417	48	0.3
1	3	CIFCA_Edd_1_T3_20190625__14_38_11__0213.JPG	14:38:24	25/06/2019	50.217815	-4.338352	49.9	0.2
1	3	CIFCA_Edd_1_T3_20190625__14_39_13__0214.JPG	14:39:16	25/06/2019	50.217812	-4.338283	50.3	0.2
1	3	CIFCA_Edd_1_T3_20190625__14_40_12__0215.JPG	14:40:12	25/06/2019	50.217750	-4.338230	49.6	0.2
1	3	CIFCA_Edd_1_T3_20190625__14_41_12__0216.JPG	14:41:13	25/06/2019	50.217740	-4.338152	50.2	0.2
1	3	CIFCA_Edd_1_T3_20190625__14_42_11__0217.JPG	14:42:11	25/06/2019	50.217770	-4.338147	50.1	0.1
1	3	CIFCA_Edd_1_T3_20190625__14_43_14__0218.JPG	14:43:13	25/06/2019	50.217758	-4.338150	49.9	0.1
1	3	CIFCA_Edd_1_T3_20190625__14_44_10__0219.JPG	14:44:22	25/06/2019	50.217780	-4.338138	50	0.7
1	3	CIFCA_Edd_1_T3_20190625__14_45_17__0220.JPG	14:45:18	25/06/2019	50.217695	-4.338210	50.8	0.3
1	3	CIFCA_Edd_1_T3_20190625__14_46_18__0221.JPG	14:46:18	25/06/2019	50.217633	-4.338240	50.8	0.2
1	3	CIFCA_Edd_1_T3_20190625__14_47_10__0222.JPG	14:47:10	25/06/2019	50.217545	-4.338198	51.3	0.2
1	3	CIFCA_Edd_1_T3_20190625__14_48_22__0223.JPG	14:48:21	25/06/2019	50.217455	-4.338068	51.2	0.2
1	3	CIFCA_Edd_1_T3_20190625__14_49_13__0224.JPG	14:49:13	25/06/2019	50.217452	-4.338022	51.3	0.2
1	3	CIFCA_Edd_1_T3_20190625__14_50_08__0225.JPG	14:50:08	25/06/2019	50.217337	-4.337973	51.7	0.3
1	3	CIFCA_Edd_1_T3_20190625__14_51_10__0226.JPG	14:51:11	25/06/2019	50.217253	-4.337893	51.9	0.4
1	3	CIFCA_Edd_1_T3_20190625__14_52_12__0227.JPG	14:52:11	25/06/2019	50.217150	-4.337805	51.6	0.4
1	3	CIFCA_Edd_1_T3_20190625__14_53_14__0228.JPG	14:53:14	25/06/2019	50.217082	-4.337728	51.7	0.1
1	4	CIFCA_Edd_1_T4_20190702__12_44_40__0139.JPG	12:44:32	07/02/2019	50.216730	-4.334090	52	0.8
1	4	CIFCA_Edd_1_T4_20190702__12_45_36__0140.JPG	12:45:29	07/02/2019	50.216877	-4.334302	52	0.7
1	4	CIFCA_Edd_1_T4_20190702__12_46_36__0141.JPG	12:46:29	07/02/2019	50.217000	-4.334415	52.1	0.4
1	4	CIFCA_Edd_1_T4_20190702__12_47_42__0142.JPG	12:47:35	07/02/2019	50.217050	-4.334617	51.9	0.3
1	4	CIFCA_Edd_1_T4_20190702__12_48_46__0143.JPG	12:48:39	07/02/2019	50.217133	-4.334785	52.2	0.4
1	4	CIFCA_Edd_1_T4_20190702__12_49_36__0144.JPG	12:49:29	07/02/2019	50.217222	-4.334868	51.9	

CIFCA_SAC_Edd_2019_DDV_Boxes1-3

1	4	CIFCA_Edd_1_T4_20190702__12_50_39__0145.JPG	12:50:32	07/02/2019	50.217313	-4.335005	52.1	0.3
1	4	CIFCA_Edd_1_T4_20190702__12_51_36__0146.JPG	12:51:29	07/02/2019	50.217360	-4.335187	51.3	0.4
1	4	CIFCA_Edd_1_T4_20190702__12_52_39__0147.JPG	12:52:32	07/02/2019	50.217442	-4.335402	52	0.4
1	4	CIFCA_Edd_1_T4_20190702__12_53_37__0148.JPG	12:53:30	07/02/2019	50.217495	-4.335545	51.5	0.6
1	4	CIFCA_Edd_1_T4_20190702__12_54_38__0149.JPG	12:54:32	07/02/2019	50.217573	-4.335670	51.3	0.6
1	4	CIFCA_Edd_1_T4_20190702__12_55_37__0150.JPG	12:55:30	07/02/2019	50.217627	-4.335788	51.1	0.5
1	4	CIFCA_Edd_1_T4_20190702__12_56_43__0151.JPG	12:56:37	07/02/2019	50.217762	-4.335978	52	0.3
1	4	CIFCA_Edd_1_T4_20190702__12_57_37__0152.JPG	12:57:30	07/02/2019	50.217817	-4.336003	51.1	0.4
1	4	CIFCA_Edd_1_T4_20190702__12_58_37__0153.JPG	12:58:30	07/02/2019	50.217825	-4.336138	50.6	0.5
1	4	CIFCA_Edd_1_T4_20190702__12_59_37__0154.JPG	12:59:30	07/02/2019	50.217828	-4.336393	50.6	1
1	4	CIFCA_Edd_1_T4_20190702__13_00_37__0155.JPG	13:00:30	07/02/2019	50.217895	-4.336692	52	0.7
1	4	CIFCA_Edd_1_T4_20190702__13_01_37__0156.JPG	13:01:30	07/02/2019	50.217955	-4.336897	50.9	0.1
1	4	CIFCA_Edd_1_T4_20190702__13_02_37__0157.JPG	13:02:31	07/02/2019	50.218032	-4.336962	51.8	0.2
1	4	CIFCA_Edd_1_T4_20190702__13_03_56__0158.JPG	13:03:50	07/02/2019	50.218175	-4.337162	51.9	0.4
1	4	CIFCA_Edd_1_T4_20190702__13_04_36__0159.JPG	13:04:30	07/02/2019	50.218250	-4.337198	52	0.5
1	4	CIFCA_Edd_1_T4_20190702__13_05_37__0160.JPG	13:05:30	07/02/2019	50.218310	-4.337247	50.9	0.7
1	4	CIFCA_Edd_1_T4_20190702__13_06_37__0161.JPG	13:06:31	07/02/2019	50.218397	-4.337367	51.3	0.3
1	5	CIFCA_Edd_1_T5_20190702__13_21_52__0162.JPG	13:21:41	07/02/2019	50.214658	-4.328032	55.2	0.5
1	5	CIFCA_Edd_1_T5_20190702__13_22_47__0163.JPG	13:22:40	07/02/2019	50.214720	-4.328258	55	0.6
1	5	CIFCA_Edd_1_T5_20190702__13_23_57__0164.JPG	13:23:50	07/02/2019	50.214852	-4.328557	53.6	0.7
1	5	CIFCA_Edd_1_T5_20190702__13_24_50__0165.JPG	13:24:43	07/02/2019	50.214958	-4.328797	52.6	0.9
1	5	CIFCA_Edd_1_T5_20190702__13_25_52__0166.JPG	13:25:44	07/02/2019	50.215033	-4.329070	53.3	0.6
1	5	CIFCA_Edd_1_T5_20190702__13_26_54__0167.JPG	13:26:47	07/02/2019	50.215112	-4.329370	52.6	0.6
1	5	CIFCA_Edd_1_T5_20190702__13_27_48__0168.JPG	13:27:42	07/02/2019	50.215158	-4.329602	51.4	0.6
1	5	CIFCA_Edd_1_T5_20190702__13_28_48__0169.JPG	13:28:41	07/02/2019	50.215275	-4.329792	50.4	0.7
1	5	CIFCA_Edd_1_T5_20190702__13_29_49__0170.JPG	13:29:42	07/02/2019	50.215373	-4.330032	52.5	0.8
1	5	CIFCA_Edd_1_T5_20190702__13_30_53__0171.JPG	13:30:45	07/02/2019	50.215477	-4.330283	52.9	0.6
1	5	CIFCA_Edd_1_T5_20190702__13_32_19__0172.JPG	13:32:14	07/02/2019	50.215603	-4.330640	53	0.6
1	5	CIFCA_Edd_1_T5_20190702__13_32_50__0173.JPG	13:32:43	07/02/2019	50.215650	-4.330737	53	0.7
1	5	CIFCA_Edd_1_T5_20190702__13_33_48__0174.JPG	13:33:42	07/02/2019	50.215742	-4.330953	53.2	0.6

CIFCA_SAC_Edd_2019_DDV_Boxes1-3

1	5	CIFCA_Edd_1_T5_20190702__13_34_47__0175.JPG	13:34:40	07/02/2019	50.215817	-4.331187	53.2	0.6
1	5	CIFCA_Edd_1_T5_20190702__13_35_49__0176.JPG	13:35:42	07/02/2019	50.215903	-4.331400	53.4	0.5
1	5B	CIFCA_Edd_1_T5B_20190702__13_44_06__0177.JPG	13:43:59	07/02/2019	50.216500	-4.332388	53.2	0.5
1	5B	CIFCA_Edd_1_T5B_20190702__13_45_04__0178.JPG	13:44:58	07/02/2019	50.216615	-4.332507	53.2	0.7
1	5B	CIFCA_Edd_1_T5B_20190702__13_46_07__0179.JPG	13:45:59	07/02/2019	50.216720	-4.332688	53.2	0.6
1	5B	CIFCA_Edd_1_T5B_20190702__13_47_08__0180.JPG	13:47:01	07/02/2019	50.216783	-4.332910	53.3	0.5
1	5B	CIFCA_Edd_1_T5B_20190702__13_48_08__0181.JPG	13:48:01	07/02/2019	50.216828	-4.333095	53.2	0.4
1	5B	CIFCA_Edd_1_T5B_20190702__13_50_07__0183.JPG	13:50:01	07/02/2019	50.216980	-4.333375	53.4	0.5
1	5B	CIFCA_Edd_1_T5B_20190702__13_51_10__0184.JPG	13:51:03	07/02/2019	50.217073	-4.333517	53.5	0.5
1	6	CIFCA_Edd_1_T6_20190702__14_05_04__0185.JPG	14:04:58	07/02/2019	50.215872	-4.329100	52.1	0.4
1	6	CIFCA_Edd_1_T6_20190702__14_06_02__0186.JPG	14:05:54	07/02/2019	50.215950	-4.329207	52.1	0.4
1	6	CIFCA_Edd_1_T6_20190702__14_07_03__0187.JPG	14:06:55	07/02/2019	50.216023	-4.329347	52.5	0.4
1	6	CIFCA_Edd_1_T6_20190702__14_08_00__0188.JPG	14:07:53	07/02/2019	50.216108	-4.329448	53.5	0.4
1	6	CIFCA_Edd_1_T6_20190702__14_08_59__0189.JPG	14:08:52	07/02/2019	50.216162	-4.329620	53.9	0.5
1	6	CIFCA_Edd_1_T6_20190702__14_10_05__0190.JPG	14:09:54	07/02/2019	50.216235	-4.329747	54.1	0.4
1	6	CIFCA_Edd_1_T6_20190702__14_10_59__0191.JPG	14:10:53	07/02/2019	50.216288	-4.329888	54.3	0.4
1	6	CIFCA_Edd_1_T6_20190702__14_11_59__0192.JPG	14:11:52	07/02/2019	50.216373	-4.329997	53.6	0.4
1	6	CIFCA_Edd_1_T6_20190702__14_13_00__0193.JPG	14:12:53	07/02/2019	50.216447	-4.330128	54.1	0.3
1	6	CIFCA_Edd_1_T6_20190702__14_13_59__0194.JPG	14:13:52	07/02/2019	50.216545	-4.330195	54.4	0.5
1	6	CIFCA_Edd_1_T6_20190702__14_14_59__0195.JPG	14:14:52	07/02/2019	50.216660	-4.330268	54.6	0.4
1	6	CIFCA_Edd_1_T6_20190702__14_16_02__0196.JPG	14:15:56	07/02/2019	50.216803	-4.330348	54.6	0.4
1	6	CIFCA_Edd_1_T6_20190702__14_17_03__0197.JPG	14:16:54	07/02/2019	50.216923	-4.330412	54.6	0.6
1	6	CIFCA_Edd_1_T6_20190702__14_17_59__0198.JPG	14:17:52	07/02/2019	50.217013	-4.330530	54.6	0.4
1	6	CIFCA_Edd_1_T6_20190702__14_19_02__0199.JPG	14:18:55	07/02/2019	50.217102	-4.330657	54.6	0.3
1	6	CIFCA_Edd_1_T6_20190702__14_20_20__0200.JPG	14:20:15	07/02/2019	50.217158	-4.330780	54.5	0.3
1	6	CIFCA_Edd_1_T6_20190702__14_21_00__0201.JPG	14:20:53	07/02/2019	50.217172	-4.330845	54.3	0.3
1	6	CIFCA_Edd_1_T6_20190702__14_22_05__0202.JPG	14:21:51	07/02/2019	50.217208	-4.330905	53.4	0.3
1	6	CIFCA_Edd_1_T6_20190702__14_23_01__0203.JPG	14:22:54	07/02/2019	50.217295	-4.330973	54.4	0.3
1	6	CIFCA_Edd_1_T6_20190702__14_24_03__0204.JPG	14:23:56	07/02/2019	50.217333	-4.331088	54.3	0.3

CIFCA_SAC_Edd_2019_DDV_Boxes1-3

Survey Box 2

Survey Box	Tow	File Name	Time (UTC)	Date	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Speed (knots)
2	1	CIFCA_Edd_2_T120190625__10_24_12__0073.JPG	10:24:11	25/06/2019	50.225790	-4.369218	52.8	0.4
2	1	CIFCA_Edd_2_T120190625__10_25_12__0074.JPG	10:25:11	25/06/2019	50.225680	-4.369158	53.1	0.5
2	1	CIFCA_Edd_2_T120190625__10_26_13__0075.JPG	10:26:12	25/06/2019	50.225528	-4.369043	53.2	0.5
2	1	CIFCA_Edd_2_T120190625__10_27_12__0076.JPG	10:27:11	25/06/2019	50.225452	-4.369173	53.2	0.3
2	1	CIFCA_Edd_2_T120190625__10_28_13__0077.JPG	10:28:12	25/06/2019	50.225382	-4.369158	53.3	0.4
2	1	CIFCA_Edd_2_T120190625__10_29_11__0078.JPG	10:29:11	25/06/2019	50.225273	-4.369048	53.1	0.3
2	1	CIFCA_Edd_2_T120190625__10_30_11__0079.JPG	10:30:11	25/06/2019	50.225207	-4.369135	53	0.2
2	1	CIFCA_Edd_2_T120190625__10_31_14__0080.JPG	10:31:13	25/06/2019	50.225118	-4.369190	53.3	0.3
2	1	CIFCA_Edd_2_T120190625__10_32_12__0081.JPG	10:32:12	25/06/2019	50.225028	-4.369210	53.3	0.3
2	1	CIFCA_Edd_2_T120190625__10_33_12__0082.JPG	10:33:12	25/06/2019	50.224932	-4.369128	53.2	0.4
2	1	CIFCA_Edd_2_T120190625__10_34_14__0083.JPG	10:34:13	25/06/2019	50.224823	-4.369228	53.1	0.3
2	1	CIFCA_Edd_2_T120190625__10_35_16__0084.JPG	10:35:15	25/06/2019	50.224753	-4.369317	52.9	0.3
2	1	CIFCA_Edd_2_T120190625__10_36_13__0085.JPG	10:36:12	25/06/2019	50.224687	-4.369370	53.4	0.2
2	1	CIFCA_Edd_2_T120190625__10_37_14__0087.JPG	10:37:13	25/06/2019	50.224680	-4.369422	53.3	0.3
2	1	CIFCA_Edd_2_T120190625__10_38_14__0088.JPG	10:38:14	25/06/2019	50.224615	-4.369507	53	0.6
2	1	CIFCA_Edd_2_T120190625__10_39_13__0089.JPG	10:39:13	25/06/2019	50.224498	-4.369655	53.2	0.4
2	1	CIFCA_Edd_2_T120190625__10_40_14__0090.JPG	10:40:15	25/06/2019	50.224500	-4.369753	53.1	0.4
2	1	CIFCA_Edd_2_T120190625__10_41_13__0091.JPG	10:41:09	25/06/2019	50.224473	-4.369852	51.6	0.6
2	1	CIFCA_Edd_2_T120190625__10_42_13__0092.JPG	10:42:14	25/06/2019	50.224345	-4.369975	48.1	0.3
2	1	CIFCA_Edd_2_T120190625__10_44_18__0093.JPG	10:44:17	25/06/2019	50.224238	-4.370125	43.8	0.6
2	1	CIFCA_Edd_2_T120190625__10_45_14__0094.JPG	10:45:14	25/06/2019	50.224115	-4.370188	45.3	0.3
2	1	CIFCA_Edd_2_T120190625__10_46_17__0095.JPG	10:46:18	25/06/2019	50.224040	-4.370205	45.2	0.2
2	1	CIFCA_Edd_2_T120190625__10_47_11__0096.JPG	10:47:10	25/06/2019	50.223970	-4.370238	46.8	0.2
2	1	CIFCA_Edd_2_T120190625__10_48_16__0097.JPG	10:48:19	25/06/2019	50.223918	-4.370328	47.8	0.3
2	1	CIFCA_Edd_2_T120190625__10_49_13__0098.JPG	10:49:13	25/06/2019	50.223902	-4.370327	46.8	0.4
2	2	CIFCA_Edd_2_T220190625__11_05_07__0099.JPG	11:05:06	25/06/2019	50.227622	-4.366498	54.3	0.3
2	2	CIFCA_Edd_2_T220190625__11_06_07__0100.JPG	11:06:06	25/06/2019	50.227548	-4.366490	54	0.3
2	2	CIFCA_Edd_2_T220190625__11_07_08__0101.JPG	11:07:07	25/06/2019	50.227472	-4.366392	54.4	0.4

CIFCA_SAC_Edd_2019_DDV_Boxes1-3

2	2	CIFCA_Edd_2_T220190625__11_08_07__0102.JPG	11:08:07	25/06/2019	50.227397	-4.366372	54.1	0.2
2	2	CIFCA_Edd_2_T220190625__11_09_10__0103.JPG	11:09:09	25/06/2019	50.227278	-4.366408	54	0.4
2	2	CIFCA_Edd_2_T220190625__11_10_06__0104.JPG	11:10:06	25/06/2019	50.227202	-4.366455	53.9	0.2
2	2	CIFCA_Edd_2_T220190625__11_11_08__0105.JPG	11:11:08	25/06/2019	50.227098	-4.366537	53.7	0.4
2	2	CIFCA_Edd_2_T220190625__11_12_06__0106.JPG	11:12:06	25/06/2019	50.227042	-4.366608	53.8	0.2
2	2	CIFCA_Edd_2_T220190625__11_13_10__0107.JPG	11:13:10	25/06/2019	50.226953	-4.366703	53.6	0.3
2	2	CIFCA_Edd_2_T220190625__11_14_09__0108.JPG	11:14:09	25/06/2019	50.226845	-4.366710	53.7	0.2
2	2	CIFCA_Edd_2_T220190625__11_15_06__0109.JPG	11:15:04	25/06/2019	50.226795	-4.366738	53.3	0.2
2	2	CIFCA_Edd_2_T220190625__11_16_08__0110.JPG	11:16:09	25/06/2019	50.226698	-4.366870	53.6	0.5
2	2	CIFCA_Edd_2_T220190625__11_17_08__0111.JPG	11:17:07	25/06/2019	50.226725	-4.366948	53.5	0.3
2	2	CIFCA_Edd_2_T220190625__11_18_09__0112.JPG	11:18:07	25/06/2019	50.226673	-4.367017	53.2	0.4
2	2	CIFCA_Edd_2_T220190625__11_19_06__0113.JPG	11:19:07	25/06/2019	50.226553	-4.366930	53.1	0.3
2	2	CIFCA_Edd_2_T220190625__11_20_07__0114.JPG	11:20:08	25/06/2019	50.226448	-4.366948	53.4	0.2
2	2	CIFCA_Edd_2_T220190625__11_21_09__0115.JPG	11:21:06	25/06/2019	50.226430	-4.367033	53.1	0.8
2	2	CIFCA_Edd_2_T220190625__11_22_06__0116.JPG	11:22:05	25/06/2019	50.226403	-4.367222	52.9	0.2
2	2	CIFCA_Edd_2_T220190625__11_23_07__0117.JPG	11:23:05	25/06/2019	50.226307	-4.367155	53.2	0.2
2	2	CIFCA_Edd_2_T220190625__11_24_09__0118.JPG	11:24:06	25/06/2019	50.226240	-4.367227	52.8	0.2
2	2	CIFCA_Edd_2_T220190625__11_25_07__0119.JPG	11:25:06	25/06/2019	50.226128	-4.367358	52.9	0.5
2	2	CIFCA_Edd_2_T220190625__11_26_07__0120.JPG	11:26:07	25/06/2019	50.226117	-4.367215	52.8	0.6
2	2	CIFCA_Edd_2_T220190625__11_27_08__0121.JPG	11:27:08	25/06/2019	50.226140	-4.367005	53	0.4
2	2	CIFCA_Edd_2_T220190625__11_28_06__0122.JPG	11:28:05	25/06/2019	50.226032	-4.366893	53.5	0.5
2	3	CIFCA_Edd_2_T320190625__11_44_03__0123.JPG	11:44:02	25/06/2019	50.225158	-4.371882	47.5	0.6
2	3	CIFCA_Edd_2_T320190625__11_45_00__0124.JPG	11:44:59	25/06/2019	50.225238	-4.371657	47.1	0.7
2	3	CIFCA_Edd_2_T320190625__11_46_00__0125.JPG	11:45:56	25/06/2019	50.225345	-4.371450	45.8	0.3
2	3	CIFCA_Edd_2_T320190625__11_47_00__0126.JPG	11:47:00	25/06/2019	50.225417	-4.371265	44	0.3
2	3	CIFCA_Edd_2_T320190625__11_48_00__0127.JPG	11:48:01	25/06/2019	50.225472	-4.371115	46.8	0.6
2	3	CIFCA_Edd_2_T320190625__11_49_04__0129.JPG	11:49:04	25/06/2019	50.225533	-4.370948	47.4	0.5
2	3	CIFCA_Edd_2_T320190625__11_50_01__0130.JPG	11:50:00	25/06/2019	50.225607	-4.370833	48.4	0.3
2	3	CIFCA_Edd_2_T320190625__11_51_02__0131.JPG	11:51:01	25/06/2019	50.225667	-4.370688	50.4	0.4
2	3	CIFCA_Edd_2_T320190625__11_52_00__0132.JPG	11:51:58	25/06/2019	50.225735	-4.370552	52.1	0.4
2	3	CIFCA_Edd_2_T320190625__11_53_00__0133.JPG	11:52:59	25/06/2019	50.225803	-4.370462	52.6	0.3
2	3	CIFCA_Edd_2_T320190625__11_54_00__0134.JPG	11:54:00	25/06/2019	50.225858	-4.370365	51.9	0.4

CIFCA_SAC_Edd_2019_DDV_Boxes1-3

2	3	CIFCA_Edd_2_T320190625__11_55_00__0135.JPG	11:55:00	25/06/2019	50.225948	-4.370242	51.8	0.4
2	3	CIFCA_Edd_2_T320190625__11_56_01__0136.JPG	11:56:00	25/06/2019	50.226058	-4.370162	52.8	0.4
2	3	CIFCA_Edd_2_T320190625__11_57_01__0137.JPG	11:57:00	25/06/2019	50.226098	-4.370040	52	0.4
2	3	CIFCA_Edd_2_T320190625__11_57_59__0138.JPG	11:57:59	25/06/2019	50.226115	-4.369873	52.8	0.4
2	3	CIFCA_Edd_2_T320190625__11_58_58__0139.JPG	11:59:00	25/06/2019	50.226237	-4.369797	52.7	0.4
2	3	CIFCA_Edd_2_T320190625__12_00_00__0140.JPG	11:59:59	25/06/2019	50.226337	-4.369693	52.8	0.3
2	3	CIFCA_Edd_2_T320190625__12_01_00__0141.JPG	12:00:59	25/06/2019	50.226408	-4.369568	52.6	0.4
2	3	CIFCA_Edd_2_T320190625__12_02_01__0143.JPG	12:01:59	25/06/2019	50.226462	-4.369475	51.6	0.2
2	3	CIFCA_Edd_2_T320190625__12_03_03__0144.JPG	12:03:03	25/06/2019	50.226518	-4.369353	52.7	0.3
2	3	CIFCA_Edd_2_T320190625__12_04_03__0145.JPG	12:03:59	25/06/2019	50.226555	-4.369250	52.1	0.3
2	3	CIFCA_Edd_2_T320190625__12_04_57__0146.JPG	12:04:57	25/06/2019	50.226615	-4.369148	52.5	0.3
2	3	CIFCA_Edd_2_T320190625__12_05_59__0147.JPG	12:05:58	25/06/2019	50.226665	-4.369027	51.7	0.3
2	4	CIFCA_Edd_2_T4_20190702__10_15_12__0070.JPG	10:15:06	07/02/2019	50.227600	-4.364885	51.6	0.6
2	4	CIFCA_Edd_2_T4_20190702__10_16_13__0071.JPG	10:16:06	07/02/2019	50.227607	-4.365210	51.7	0.9
2	4	CIFCA_Edd_2_T4_20190702__10_17_17__0072.JPG	10:17:10	07/02/2019	50.227617	-4.365620	51.5	1
2	4	CIFCA_Edd_2_T4_20190702__10_18_15__0073.JPG	10:18:07	07/02/2019	50.227672	-4.365968	51.4	0.6
2	4	CIFCA_Edd_2_T4_20190702__10_19_16__0074.JPG	10:19:26	07/02/2019	50.227638	-4.366252	49.6	0.7
2	4	CIFCA_Edd_2_T4_20190702__10_20_13__0075.JPG	10:20:07	07/02/2019	50.227607	-4.366413	50.2	0.5
2	4	CIFCA_Edd_2_T4_20190702__10_21_14__0076.JPG	10:21:09	07/02/2019	50.227620	-4.366707	50.2	0.9
2	4	CIFCA_Edd_2_T4_20190702__10_22_17__0077.JPG	10:22:11	07/02/2019	50.227630	-4.367082	50.3	0.8
2	4	CIFCA_Edd_2_T4_20190702__10_23_17__0078.JPG	10:23:11	07/02/2019	50.227662	-4.367435	50.8	0.9
2	4	CIFCA_Edd_2_T4_20190702__10_24_15__0079.JPG	10:24:12	07/02/2019	50.227687	-4.367810	50.4	0.7
2	4	CIFCA_Edd_2_T4_20190702__10_25_15__0080.JPG	10:25:08	07/02/2019	50.227718	-4.368162	50.5	0.9
2	4	CIFCA_Edd_2_T4_20190702__10_26_16__0081.JPG	10:26:09	07/02/2019	50.227683	-4.368627	50.6	1
2	4	CIFCA_Edd_2_T4_20190702__10_27_14__0082.JPG	10:27:08	07/02/2019	50.227727	-4.368983	50.6	1
2	4	CIFCA_Edd_2_T4_20190702__10_28_14__0083.JPG	10:28:08	07/02/2019	50.227742	-4.369365	50.5	0.9
2	4	CIFCA_Edd_2_T4_20190702__10_29_14__0084.JPG	10:29:07	07/02/2019	50.227723	-4.369780	50.5	0.9
2	4	CIFCA_Edd_2_T4_20190702__10_30_14__0085.JPG	10:30:09	07/02/2019	50.227740	-4.370165	50.8	0.9
2	4	CIFCA_Edd_2_T4_20190702__10_31_14__0086.JPG	10:31:10	07/02/2019	50.227722	-4.370580	50.7	1.2
2	4	CIFCA_Edd_2_T4_20190702__10_32_14__0087.JPG	10:32:08	07/02/2019	50.227722	-4.370978	50.7	0.8
2	4	CIFCA_Edd_2_T4_20190702__10_33_13__0088.JPG	10:33:08	07/02/2019	50.227705	-4.371417	50.6	1
2	4	CIFCA_Edd_2_T4_20190702__10_34_15__0089.JPG	10:34:07	07/02/2019	50.227723	-4.371822	50.6	0.9

CIFCA_SAC_Edd_2019_DDV_Boxes1-3

2	4	CIFCA_Edd_2_T4_20190702__10_35_14__0090.JPG	10:35:07	07/02/2019	50.227718	-4.372237	50.5	9
2	4	CIFCA_Edd_2_T4_20190702__10_36_13__0091.JPG	10:36:07	07/02/2019	50.227763	-4.372597	50.7	0.8
2	4	CIFCA_Edd_2_T4_20190702__10_37_14__0092.JPG	10:37:09	07/02/2019	50.227827	-4.372960	50.7	0.6
2	5	CIFCA_Edd_2_T5_20190702__10_51_18__0093.JPG	10:51:12	07/02/2019	50.226452	-4.362953	50.3	0.7
2	5	CIFCA_Edd_2_T5_20190702__10_52_20__0094.JPG	10:52:13	07/02/2019	50.226415	-4.363230	49.9	0.8
2	5	CIFCA_Edd_2_T5_20190702__10_53_21__0095.JPG	10:53:16	07/02/2019	50.226370	-4.363558	50.7	0.9
2	5	CIFCA_Edd_2_T5_20190702__10_54_20__0096.JPG	10:54:13	07/02/2019	50.226295	-4.363895	50.9	1
2	5	CIFCA_Edd_2_T5_20190702__10_55_23__0097.JPG	10:55:17	07/02/2019	50.226177	-4.364292	50.9	0.8
2	5	CIFCA_Edd_2_T5_20190702__10_56_20__0098.JPG	10:56:14	07/02/2019	50.226147	-4.364563	50	0.6
2	5	CIFCA_Edd_2_T5_20190702__10_57_21__0099.JPG	10:57:13	07/02/2019	50.226150	-4.364720	49.6	0.7
2	5	CIFCA_Edd_2_T5_20190702__10_58_20__0100.JPG	10:58:14	07/02/2019	50.226113	-4.364993	50.2	0.7
2	5	CIFCA_Edd_2_T5_20190702__10_59_19__0101.JPG	10:59:13	07/02/2019	50.226033	-4.365217	49.6	0.3
2	5	CIFCA_Edd_2_T5_20190702__11_00_19__0102.JPG	11:00:13	07/02/2019	50.226035	-4.365417	49.4	0.4
2	5	CIFCA_Edd_2_T5_20190702__11_01_25__0103.JPG	11:01:24	07/02/2019	50.226042	-4.365730	48.9	0.6
2	5	CIFCA_Edd_2_T5_20190702__11_02_24__0104.JPG	11:02:18	07/02/2019	50.226035	-4.365935	49.3	0.4
2	5	CIFCA_Edd_2_T5_20190702__11_03_19__0105.JPG	11:03:12	07/02/2019	50.226030	-4.366165	49.5	0.7
2	5	CIFCA_Edd_2_T5_20190702__11_04_19__0106.JPG	11:04:13	07/02/2019	50.225992	-4.366420	48.9	0.6
2	5	CIFCA_Edd_2_T5_20190702__11_05_18__0107.JPG	11:05:12	07/02/2019	50.225963	-4.366702	49.3	0.7
2	5	CIFCA_Edd_2_T5_20190702__11_06_20__0108.JPG	11:06:13	07/02/2019	50.225995	-4.367018	49.8	0.5
2	5	CIFCA_Edd_2_T5_20190702__11_07_18__0109.JPG	11:07:11	07/02/2019	50.226030	-4.367173	48.7	0.4
2	5	CIFCA_Edd_2_T5_20190702__11_08_21__0110.JPG	11:08:13	07/02/2019	50.225938	-4.367322	48.4	0.8
2	5	CIFCA_Edd_2_T5_20190702__11_09_18__0111.JPG	11:09:12	07/02/2019	50.225950	-4.367645	49.6	0.5
2	5	CIFCA_Edd_2_T5_20190702__11_10_18__0112.JPG	11:10:12	07/02/2019	50.225870	-4.367883	48.3	0.5
2	5	CIFCA_Edd_2_T5_20190702__11_11_18__0113.JPG	11:11:13	07/02/2019	50.225842	-4.368200	49.6	0.7
2	5	CIFCA_Edd_2_T5_20190702__11_12_17__0114.JPG	11:12:11	07/02/2019	50.225835	-4.368560	49	0.7
2	5	CIFCA_Edd_2_T5_20190702__11_13_20__0115.JPG	11:13:13	07/02/2019	50.225782	-4.368948	49.6	0.8
2	6	CIFCA_Edd_2_T6_20190702__11_26_03__0116.JPG	11:25:56	07/02/2019	50.225870	-4.358518	54	1.2
2	6	CIFCA_Edd_2_T6_20190702__11_27_00__0117.JPG	11:26:53	07/02/2019	50.225843	-4.358980	53.7	1
2	6	CIFCA_Edd_2_T6_20190702__11_27_57__0118.JPG	11:27:50	07/02/2019	50.225823	-4.359275	53.8	0.6
2	6	CIFCA_Edd_2_T6_20190702__11_28_56__0119.JPG	11:28:50	07/02/2019	50.225738	-4.359458	52.6	0.6
2	6	CIFCA_Edd_2_T6_20190702__11_30_01__0120.JPG	11:29:50	07/02/2019	50.225650	-4.359692	53.2	0.7
2	6	CIFCA_Edd_2_T6_20190702__11_30_56__0121.JPG	11:30:50	07/02/2019	50.225648	-4.359960	52.2	0.5

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2	6	CIFCA_Edd_2_T6_20190702__11_31_57__0122.JPG	11:31:51	07/02/2019	50.225627	-4.360258	53.2	0.8
2	6	CIFCA_Edd_2_T6_20190702__11_32_58__0123.JPG	11:32:51	07/02/2019	50.225588	-4.360593	53.1	1
2	6	CIFCA_Edd_2_T6_20190702__11_33_56__0124.JPG	11:33:49	07/02/2019	50.225502	-4.360932	52.9	0.8
2	6	CIFCA_Edd_2_T6_20190702__11_34_56__0125.JPG	11:34:50	07/02/2019	50.225483	-4.361327	52.7	1
2	6	CIFCA_Edd_2_T6_20190702__11_35_55__0126.JPG	11:35:49	07/02/2019	50.225463	-4.361685	52.5	0.8
2	6	CIFCA_Edd_2_T6_20190702__11_36_56__0127.JPG	11:36:49	07/02/2019	50.225447	-4.361982	51.4	0.5
2	6	CIFCA_Edd_2_T6_20190702__11_38_29__0128.JPG	11:38:22	07/02/2019	50.225448	-4.362305	50.8	0.6
2	6	CIFCA_Edd_2_T6_20190702__11_39_03__0129.JPG	11:38:56	07/02/2019	50.225420	-4.362448	50.9	0.7
2	6	CIFCA_Edd_2_T6_20190702__11_39_56__0130.JPG	11:39:50	07/02/2019	50.225372	-4.362652	51.4	0.7
2	6	CIFCA_Edd_2_T6_20190702__11_40_57__0131.JPG	11:40:51	07/02/2019	50.225380	-4.362903	50.6	0.6
2	6	CIFCA_Edd_2_T6_20190702__11_41_57__0132.JPG	11:41:47	07/02/2019	50.225378	-4.363120	49.6	0.5
2	6	CIFCA_Edd_2_T6_20190702__11_42_58__0133.JPG	11:42:51	07/02/2019	50.225333	-4.363365	50	0.7
2	6	CIFCA_Edd_2_T6_20190702__11_43_57__0134.JPG	11:43:50	07/02/2019	50.225342	-4.363647	50.1	1.2
2	6	CIFCA_Edd_2_T6_20190702__11_44_58__0135.JPG	11:44:50	07/02/2019	50.225233	-4.364003	51.1	0.5
2	6	CIFCA_Edd_2_T6_20190702__11_45_57__0136.JPG	11:45:50	07/02/2019	50.225265	-4.364233	50.5	0.3
2	6	CIFCA_Edd_2_T6_20190702__11_46_58__0137.JPG	11:46:51	07/02/2019	50.225253	-4.364408	49.9	0.4
2	6	CIFCA_Edd_2_T6_20190702__11_48_03__0138.JPG	11:47:50	07/02/2019	50.225268	-4.364585	49.6	0.6

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Survey Box 3

Survey Box	Tow	File Name	Time (UTC)	Date	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Speed (knots)
3	1	CIFCA_Edd_3_T120190625__08_12_59__0002.JPG	08:13:54	25/06/2019	50.248763	-4.500262	47.7	0.4
3	1	CIFCA_Edd_3_T120190625__08_14_06__0003.JPG	08:14:07	25/06/2019	50.248733	-4.500263	48.1	0.4
3	1	CIFCA_Edd_3_T120190625__08_15_02__0004.JPG	08:15:01	25/06/2019	50.248655	-4.500270	47.6	0.4
3	1	CIFCA_Edd_3_T120190625__08_15_57__0005.JPG	08:15:58	25/06/2019	50.248563	-4.500310	47.9	0.4
3	1	CIFCA_Edd_3_T120190625__08_16_57__0006.JPG	08:16:57	25/06/2019	50.248435	-4.500397	47.3	0.4
3	1	CIFCA_Edd_3_T120190625__08_17_56__0007.JPG	08:17:56	25/06/2019	50.248325	-4.500505	47.4	0.5
3	1	CIFCA_Edd_3_T120190625__08_18_56__0008.JPG	08:18:56	25/06/2019	50.248185	-4.500608	50.6	0.3
3	1	CIFCA_Edd_3_T120190625__08_19_55__0009.JPG	08:19:55	25/06/2019	50.248152	-4.500663	50.3	0.6
3	1	CIFCA_Edd_3_T120190625__08_20_55__0010.JPG	08:20:54	25/06/2019	50.248010	-4.500727	50.9	0.4
3	1	CIFCA_Edd_3_T120190625__08_21_57__0011.JPG	08:21:58	25/06/2019	50.247885	-4.500757	51.4	0.4
3	1	CIFCA_Edd_3_T120190625__08_22_55__0012.JPG	08:22:54	25/06/2019	50.247772	-4.500813	51.6	0.5
3	1	CIFCA_Edd_3_T120190625__08_23_58__0013.JPG	08:23:57	25/06/2019	50.247672	-4.500850	51.2	0.2
3	1	CIFCA_Edd_3_T120190625__08_24_56__0014.JPG	08:24:56	25/06/2019	50.247573	-4.500902	51.1	0.4
3	1	CIFCA_Edd_3_T120190625__08_25_56__0015.JPG	08:25:55	25/06/2019	50.247443	-4.500968	50.7	0.5
3	1	CIFCA_Edd_3_T120190625__08_26_57__0016.JPG	08:26:57	25/06/2019	50.247372	-4.500997	50.5	0.5
3	1	CIFCA_Edd_3_T120190625__08_27_56__0017.JPG	08:27:55	25/06/2019	50.247260	-4.501088	50.4	0.6
3	1	CIFCA_Edd_3_T120190625__08_28_54__0018.JPG	08:28:54	25/06/2019	50.247143	-4.501172	51	0.4
3	1	CIFCA_Edd_3_T120190625__08_29_57__0019.JPG	08:29:57	25/06/2019	50.247032	-4.501257	51.1	0.3
3	1	CIFCA_Edd_3_T120190625__08_30_54__0020.JPG	08:30:52	25/06/2019	50.246957	-4.501308	51.1	0.2
3	1	CIFCA_Edd_3_T120190625__08_31_56__0021.JPG	08:31:57	25/06/2019	50.246868	-4.501367	51.1	0.1
3	1	CIFCA_Edd_3_T120190625__08_32_59__0022.JPG	08:32:58	25/06/2019	50.246777	-4.501437	51.5	0.2
3	1	CIFCA_Edd_3_T120190625__08_33_55__0023.JPG	08:33:55	25/06/2019	50.246692	-4.501495	51.6	0.3
3	1	CIFCA_Edd_3_T120190625__08_34_55__0024.JPG	08:34:54	25/06/2019	50.246630	-4.501538	50.8	0.1
3	2	CIFCA_Edd_3_T220190625__08_47_54__0025.JPG	08:47:53	25/06/2019	50.247313	-4.499640	52.4	0.5
3	2	CIFCA_Edd_3_T220190625__08_48_52__0026.JPG	08:48:52	25/06/2019	50.247218	-4.499543	51.9	0.6
3	2	CIFCA_Edd_3_T220190625__08_49_51__0027.JPG	08:49:50	25/06/2019	50.247083	-4.499465	53.2	0.4
3	2	CIFCA_Edd_3_T220190625__08_50_53__0028.JPG	08:50:53	25/06/2019	50.247013	-4.499342	53.7	0.5
3	2	CIFCA_Edd_3_T220190625__08_51_52__0029.JPG	08:51:51	25/06/2019	50.246887	-4.499210	54	0.6

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3	2	CIFCA_Edd_3_T220190625__08_52_53__0030.JPG	08:52:52	25/06/2019	50.246768	-4.499095	54.2	0.4
3	2	CIFCA_Edd_3_T220190625__08_53_51__0031.JPG	08:53:50	25/06/2019	50.246705	-4.499003	53.9	0.3
3	2	CIFCA_Edd_3_T220190625__08_54_53__0032.JPG	08:54:53	25/06/2019	50.246607	-4.498827	54	0.4
3	2	CIFCA_Edd_3_T220190625__08_55_52__0033.JPG	08:55:52	25/06/2019	50.246502	-4.498623	53.6	0.1
3	2	CIFCA_Edd_3_T220190625__08_56_52__0034.JPG	08:56:52	25/06/2019	50.246455	-4.498582	53.2	0.8
3	2	CIFCA_Edd_3_T220190625__08_57_52__0035.JPG	08:57:53	25/06/2019	50.246303	-4.498482	54.4	0.3
3	2	CIFCA_Edd_3_T220190625__08_58_52__0036.JPG	08:58:51	25/06/2019	50.246237	-4.498338	53.1	0.4
3	2	CIFCA_Edd_3_T220190625__08_59_52__0037.JPG	08:59:51	25/06/2019	50.246142	-4.498200	54.6	0.3
3	2	CIFCA_Edd_3_T220190625__09_00_52__0038.JPG	09:00:51	25/06/2019	50.246065	-4.498020	54.8	0.7
3	2	CIFCA_Edd_3_T220190625__09_01_52__0039.JPG	09:01:51	25/06/2019	50.245970	-4.497825	55	0.4
3	2	CIFCA_Edd_3_T220190625__09_02_53__0040.JPG	09:02:51	25/06/2019	50.245905	-4.497675	54.7	0.4
3	2	CIFCA_Edd_3_T220190625__09_03_52__0041.JPG	09:03:51	25/06/2019	50.245830	-4.497495	54.9	0.3
3	2	CIFCA_Edd_3_T220190625__09_04_52__0042.JPG	09:04:56	25/06/2019	50.245750	-4.497367	54.2	0.5
3	2	CIFCA_Edd_3_T220190625__09_05_51__0043.JPG	09:05:50	25/06/2019	50.245683	-4.497228	55.1	0.5
3	2	CIFCA_Edd_3_T220190625__09_06_50__0044.JPG	09:06:50	25/06/2019	50.245618	-4.497067	54.8	0.5
3	2	CIFCA_Edd_3_T220190625__09_07_53__0045.JPG	09:07:52	25/06/2019	50.245525	-4.496917	54.9	0.5
3	2	CIFCA_Edd_3_T220190625__09_08_52__0046.JPG	09:08:51	25/06/2019	50.245457	-4.496773	55.1	0.3
3	2	CIFCA_Edd_3_T220190625__09_09_51__0047.JPG	09:09:50	25/06/2019	50.245398	-4.496642	54.9	0.4
3	2	CIFCA_Edd_3_T220190625__09_10_53__0048.JPG	09:10:52	25/06/2019	50.245313	-4.496502	54.7	0.3
3	3	CIFCA_Edd_3_T320190625__09_30_48__0049.JPG	09:30:46	25/06/2019	50.245825	-4.501413	53.3	0.4
3	3	CIFCA_Edd_3_T320190625__09_31_44__0050.JPG	09:31:44	25/06/2019	50.245767	-4.501275	52.6	0.4
3	3	CIFCA_Edd_3_T320190625__09_32_46__0051.JPG	09:32:46	25/06/2019	50.245702	-4.501062	53.7	0.8
3	3	CIFCA_Edd_3_T320190625__09_33_46__0052.JPG	09:33:53	25/06/2019	50.245612	-4.500870	53.9	0.6
3	3	CIFCA_Edd_3_T320190625__09_34_47__0053.JPG	09:34:46	25/06/2019	50.245547	-4.500735	54.2	0.3
3	3	CIFCA_Edd_3_T320190625__09_35_46__0054.JPG	09:35:45	25/06/2019	50.245487	-4.500572	54	0.7
3	3	CIFCA_Edd_3_T320190625__09_36_46__0055.JPG	09:36:45	25/06/2019	50.245420	-4.500412	53.8	0.4
3	3	CIFCA_Edd_3_T320190625__09_37_45__0056.JPG	09:37:44	25/06/2019	50.245333	-4.500225	54.9	0.3
3	3	CIFCA_Edd_3_T320190625__09_38_43__0057.JPG	09:38:43	25/06/2019	50.245283	-4.500062	54.8	0.5
3	3	CIFCA_Edd_3_T320190625__09_39_44__0058.JPG	09:39:43	25/06/2019	50.245233	-4.499930	53.3	0.4
3	3	CIFCA_Edd_3_T320190625__09_40_46__0059.JPG	09:40:46	25/06/2019	50.245167	-4.499720	54.9	0.4
3	3	CIFCA_Edd_3_T320190625__09_41_45__0060.JPG	09:41:44	25/06/2019	50.245127	-4.499573	55	0.7
3	3	CIFCA_Edd_3_T320190625__09_42_43__0061.JPG	09:42:42	25/06/2019	50.245055	-4.499377	55.1	0.5

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3	3	CIFCA_Edd_3_T320190625__09_43_44__0062.JPG	09:43:43	25/06/2019	50.244972	-4.499205	54.8	0.4
3	3	CIFCA_Edd_3_T320190625__09_44_47__0063.JPG	09:44:47	25/06/2019	50.244907	-4.499043	54.3	0.6
3	3	CIFCA_Edd_3_T320190625__09_45_47__0064.JPG	09:45:46	25/06/2019	50.244793	-4.498895	55.1	0.3
3	3	CIFCA_Edd_3_T320190625__09_46_43__0065.JPG	09:46:44	25/06/2019	50.244732	-4.498797	53.8	0.4
3	3	CIFCA_Edd_3_T320190625__09_47_45__0066.JPG	09:47:44	25/06/2019	50.244607	-4.498712	55.5	0.2
3	3	CIFCA_Edd_3_T320190625__09_48_53__0067.JPG	09:48:52	25/06/2019	50.244532	-4.498673	54.9	0.3
3	3	CIFCA_Edd_3_T320190625__09_49_44__0068.JPG	09:49:44	25/06/2019	50.244427	-4.498622	55.5	0.2
3	3	CIFCA_Edd_3_T320190625__09_50_43__0069.JPG	09:50:42	25/06/2019	50.244342	-4.498547	55.4	0.5
3	3	CIFCA_Edd_3_T320190625__09_51_43__0070.JPG	09:51:42	25/06/2019	50.244255	-4.498435	55.2	0.3
3	3	CIFCA_Edd_3_T320190625__09_52_43__0071.JPG	09:52:42	25/06/2019	50.244188	-4.498295	55	0.7
3	3	CIFCA_Edd_3_T320190625__09_53_45__0072.JPG	09:53:43	25/06/2019	50.244100	-4.498153	55.1	0.2
3	4	CIFCA_Edd_3_T4_20190702__07_56_35__0001.JPG	07:56:31	07/02/2019	50.246108	-4.499735	53	0.6
3	4	CIFCA_Edd_3_T4_20190702__07_57_36__0002.JPG	07:57:30	07/02/2019	50.246045	-4.499987	52.1	0.7
3	4	CIFCA_Edd_3_T4_20190702__07_58_35__0003.JPG	07:58:28	07/02/2019	50.245913	-4.500165	50.7	0.6
3	4	CIFCA_Edd_3_T4_20190702__07_59_41__0004.JPG	07:59:35	07/02/2019	50.245805	-4.500473	50.2	0.6
3	4	CIFCA_Edd_3_T4_20190702__08_00_38__0005.JPG	08:00:32	07/02/2019	50.245760	-4.500705	52.2	0.6
3	4	CIFCA_Edd_3_T4_20190702__08_01_42__0006.JPG	08:01:34	07/02/2019	50.245612	-4.500935	52.9	0.6
3	4	CIFCA_Edd_3_T4_20190702__08_02_39__0007.JPG	08:02:32	07/02/2019	50.245508	-4.501185	53	0.6
3	4	CIFCA_Edd_3_T4_20190702__08_03_35__0008.JPG	08:03:29	07/02/2019	50.245423	-4.501422	53	0.8
3	4	CIFCA_Edd_3_T4_20190702__08_04_35__0009.JPG	08:04:29	07/02/2019	50.245328	-4.501662	53.1	0.7
3	4	CIFCA_Edd_3_T4_20190702__08_05_36__0010.JPG	08:05:30	07/02/2019	50.245263	-4.501960	53.1	0.7
3	4	CIFCA_Edd_3_T4_20190702__08_06_35__0011.JPG	08:06:29	07/02/2019	50.245132	-4.502187	53.1	0.7
3	4	CIFCA_Edd_3_T4_20190702__08_07_38__0012.JPG	08:07:32	07/02/2019	50.244998	-4.502368	53.1	0.7
3	4	CIFCA_Edd_3_T4_20190702__08_09_35__0013.JPG	08:09:30	07/02/2019	50.244775	-4.502798	49.6	1
3	4	CIFCA_Edd_3_T4_20190702__08_10_37__0014.JPG	08:10:31	07/02/2019	50.244713	-4.503123	48.2	0.7
3	4	CIFCA_Edd_3_T4_20190702__08_12_33__0015.JPG	08:12:28	07/02/2019	50.244522	-4.503608	50.8	0.7
3	4	CIFCA_Edd_3_T4_20190702__08_13_59__0016.JPG	08:13:53	07/02/2019	50.244435	-4.504052	50.5	0.7
3	4	CIFCA_Edd_3_T4_20190702__08_14_35__0017.JPG	08:14:29	07/02/2019	50.244333	-4.504118	50.9	0.6
3	4	CIFCA_Edd_3_T4_20190702__08_15_34__0018.JPG	08:15:30	07/02/2019	50.244258	-4.504395	51.6	0.7
3	4	CIFCA_Edd_3_T4_20190702__08_16_36__0019.JPG	08:16:29	07/02/2019	50.244117	-4.504628	51.7	0.7
3	4	CIFCA_Edd_3_T4_20190702__08_17_36__0020.JPG	08:17:29	07/02/2019	50.243978	-4.504833	51.6	
3	4	CIFCA_Edd_3_T4_20190702__08_18_35__0021.JPG	08:18:46	07/02/2019	50.243882	-4.505210	51.9	0.7

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3	4	CIFCA_Edd_3_T4_20190702__08_19_35__0022.JPG	08:19:30	07/02/2019	50.243828	-4.505412	52.1	0.7
3	5	CIFCA_Edd_3_T5_20190702__08_36_18__0023.JPG	08:36:12	07/02/2019	50.248948	-4.494960	52.3	0.7
3	5	CIFCA_Edd_3_T5_20190702__08_37_17__0024.JPG	08:37:11	07/02/2019	50.248792	-4.495140	52.3	0.7
3	5	CIFCA_Edd_3_T5_20190702__08_38_18__0025.JPG	08:38:13	07/02/2019	50.248682	-4.495483	52.3	0.8
3	5	CIFCA_Edd_3_T5_20190702__08_39_17__0026.JPG	08:39:12	07/02/2019	50.248545	-4.495715	52.5	0.6
3	5	CIFCA_Edd_3_T5_20190702__08_40_20__0027.JPG	08:40:14	07/02/2019	50.248425	-4.495993	52.6	0.8
3	5	CIFCA_Edd_3_T5_20190702__08_41_17__0028.JPG	08:41:11	07/02/2019	50.248280	-4.496247	52.7	0.7
3	5	CIFCA_Edd_3_T5_20190702__08_42_17__0029.JPG	08:42:11	07/02/2019	50.248185	-4.496457	52.6	0.7
3	5	CIFCA_Edd_3_T5_20190702__08_43_19__0030.JPG	08:43:13	07/02/2019	50.248075	-4.496795	52.5	0.8
3	5	CIFCA_Edd_3_T5_20190702__08_44_19__0031.JPG	08:44:14	07/02/2019	50.247938	-4.497053	52.8	0.7
3	5	CIFCA_Edd_3_T5_20190702__08_45_16__0032.JPG	08:45:10	07/02/2019	50.247820	-4.497252	52.7	0.8
3	5	CIFCA_Edd_3_T5_20190702__08_46_18__0033.JPG	08:46:12	07/02/2019	50.247693	-4.497507	52.9	1
3	5	CIFCA_Edd_3_T5_20190702__08_47_17__0034.JPG	08:47:12	07/02/2019	50.247525	-4.497833	53.2	0.9
3	5	CIFCA_Edd_3_T5_20190702__08_48_17__0035.JPG	08:48:11	07/02/2019	50.247413	-4.498088	52.9	0.7
3	5	CIFCA_Edd_3_T5_20190702__08_49_16__0036.JPG	08:49:28	07/02/2019	50.247265	-4.498432	52.6	0.8
3	5	CIFCA_Edd_3_T5_20190702__08_50_17__0037.JPG	08:50:11	07/02/2019	50.247138	-4.498653	51.8	0.9
3	5	CIFCA_Edd_3_T5_20190702__08_51_18__0038.JPG	08:51:13	07/02/2019	50.247022	-4.498913	51.6	0.6
3	5	CIFCA_Edd_3_T5_20190702__08_52_21__0039.JPG	08:52:16	07/02/2019	50.246873	-4.499122	51.4	1.2
3	5	CIFCA_Edd_3_T5_20190702__08_53_18__0040.JPG	08:53:12	07/02/2019	50.246797	-4.499487	52	0.8
3	5	CIFCA_Edd_3_T5_20190702__08_54_17__0041.JPG	08:54:11	07/02/2019	50.246657	-4.499782	50.1	0.8
3	5	CIFCA_Edd_3_T5_20190702__08_55_15__0042.JPG	08:55:10	07/02/2019	50.246520	-4.500017	50.6	0.7
3	5	CIFCA_Edd_3_T5_20190702__08_56_18__0043.JPG	08:56:12	07/02/2019	50.246432	-4.500342	48.2	0.9
3	5	CIFCA_Edd_3_T5_20190702__08_57_23__0044.JPG	08:57:10	07/02/2019	50.246290	-4.500593	47.3	0.7
3	5	CIFCA_Edd_3_T5_20190702__08_58_19__0045.JPG	08:58:12	07/02/2019	50.246193	-4.500847	49.9	0.8
3	5	CIFCA_Edd_3_T5_20190702__08_59_19__0046.JPG	08:59:15	07/02/2019	50.246073	-4.501128	50.4	0.7
3	6	CIFCA_Edd_3_T6_20190702__09_16_11__0047.JPG	09:16:05	07/02/2019	50.249677	-4.499090	51.7	0.8
3	6	CIFCA_Edd_3_T6_20190702__09_17_12__0048.JPG	09:17:06	07/02/2019	50.249575	-4.499340	51.7	0.7
3	6	CIFCA_Edd_3_T6_20190702__09_18_11__0049.JPG	09:18:05	07/02/2019	50.249493	-4.499625	51.6	0.8
3	6	CIFCA_Edd_3_T6_20190702__09_19_13__0050.JPG	09:19:08	07/02/2019	50.249352	-4.499908	51.6	0.8
3	6	CIFCA_Edd_3_T6_20190702__09_20_12__0051.JPG	09:20:06	07/02/2019	50.249235	-4.500173	51.3	0.7
3	6	CIFCA_Edd_3_T6_20190702__09_21_12__0052.JPG	09:21:06	07/02/2019	50.249142	-4.500462	49.4	0.8
3	6	CIFCA_Edd_3_T6_20190702__09_22_14__0053.JPG	09:22:09	07/02/2019	50.249023	-4.500748	49.5	0.8

CIFCA_SAC_Edd_2019_DDV_Boxes1-3

3	6	CIFCA_Edd_3_T6_20190702__09_23_12__0054.JPG	09:23:07	07/02/2019	50.248897	-4.500942	50	1.6
3	6	CIFCA_Edd_3_T6_20190702__09_24_13__0055.JPG	09:24:09	07/02/2019	50.248797	-4.501222	50.5	0.7
3	6	CIFCA_Edd_3_T6_20190702__09_25_13__0056.JPG	09:25:07	07/02/2019	50.248678	-4.501473	50.4	0.7
3	6	CIFCA_Edd_3_T6_20190702__09_26_15__0057.JPG	09:26:09	07/02/2019	50.248548	-4.501725	50.5	0.8
3	6	CIFCA_Edd_3_T6_20190702__09_27_18__0058.JPG	09:27:13	07/02/2019	50.248445	-4.501987	50.7	0.8
3	6	CIFCA_Edd_3_T6_20190702__09_28_13__0059.JPG	09:28:07	07/02/2019	50.248358	-4.502225	50.9	0.9
3	6	CIFCA_Edd_3_T6_20190702__09_29_15__0060.JPG	09:29:08	07/02/2019	50.248240	-4.502508	50.9	0.8
3	6	CIFCA_Edd_3_T6_20190702__09_30_11__0061.JPG	09:30:05	07/02/2019	50.248150	-4.502772	50.9	0.7
3	6	CIFCA_Edd_3_T6_20190702__09_31_16__0062.JPG	09:31:10	07/02/2019	50.248038	-4.503070	50.9	0.8
3	6	CIFCA_Edd_3_T6_20190702__09_32_31__0063.JPG	09:32:25	07/02/2019	50.247883	-4.503403	50.7	0.9
3	6	CIFCA_Edd_3_T6_20190702__09_33_17__0064.JPG	09:33:10	07/02/2019	50.247798	-4.503590	50.7	0.6
3	6	CIFCA_Edd_3_T6_20190702__09_34_14__0065.JPG	09:34:12	07/02/2019	50.247672	-4.503868	49.1	0.8
3	6	CIFCA_Edd_3_T6_20190702__09_35_14__0066.JPG	09:35:08	07/02/2019	50.247562	-4.504100	48.2	0.7
3	6	CIFCA_Edd_3_T6_20190702__09_37_17__0068.JPG	09:37:11	07/02/2019	50.247362	-4.504648	46.3	0.8
3	6	CIFCA_Edd_3_T6_20190702__09_38_16__0069.JPG	09:38:11	07/02/2019	50.247233	-4.504960	46.3	0.8

Appendix 4. Daily Logs

Project information		
Project	Eddystone SAC (Year 6) DDV	
Survey code	2019_CIFCA_SAC_Edd_DDV	
Location	Eddystone	
Date	25/06/2019	
Vessel	Tiger Lily	
SeaSpyder laser calibration:	Right vertical - 208mm, Left vertical - 206mm Lower horizontal - 200mm, Upper horizontal - 200mm	
Olex mark	Triple fish	
Staff		
Survey role	Company	Name
Principal Scientific Officer	Cornwall IFCA	Colin Trundle
Scientific Officer	Cornwall IFCA	Stephanie Sturgeon
Scientific Officer	Cornwall IFCA	Kate Owen
Scientific Officer	Cornwall IFCA	Hilary Naylor
Skipper	Independent	David Raymond
Visitor	Marine Conservation Society	Jean-Luc Solandt
Weather and tides		
High water time (Plymouth):	11:45	
High water (m)	4.34 m	
Time weather recorded (Falmouth)	06:36	
Wind direction	N	
Wind speed	7-10 mph	
Beaufort scale	2	
Cloud coverage	4/8	
Time weather recorded (Plymouth)	08:00	
Wind direction	N	
Wind speed	4-8 mph	
Beaufort scale	2	
Cloud coverage	2/8	
Safety		
Toolbox talk time	08:00	
Induction	06:10	
Summary of operations		
Time (UTC)	Type	Activity
06:05		Onboard setting up
06:26		Depart Mylor
07:55		Arrive on survey site
08:00		Toolbox talk
08:04	DDV	Camera alongside

CIFCA_SAC_Edd_2019_DDV_Boxes1-3

08:08	DDV	Camera deployed
08:11:54	DDV	Box 3 Tow 1_SOL
08:35:35	DDV	Box 3 Tow 1_EOL
08:46:43	DDV	Box 3 Tow 2_SOL
09:11:02	DDV	Box 3 Tow 2_EOL
09:29:24	DDV	Box 3 Tow 3_SOL
09:54:00	DDV	Box 3 Tow 3_EOL
10:23:00	DDV	Box 2 Tow 1_SOL
10:49:31	DDV	Box 2 Tow 1_EOL
11:04:10	DDV	Box 2 Tow 2_SOL
11:28:23	DDV	Box 2 Tow 2_EOL
11:42:52	DDV	Box 2 Tow 3_SOL
12:06:14	DDV	Box 2 Tow 3_EOL
12:12		Lunch & steam to Box 1
12:46		Arrive at Box 1, deploy camera to seabed
12:54:48	DDV	Box 1 Tow 1_SOL
13:09	DDV	Camera stuck on gear
13:13	DDV	Camera recovered
13:14:34	DDV	Box 1 Tow 1_EOL
13:15	DDV	Camera re-deployed
13:20:44	DDV	Box 1 Tow 1B_SOL
13:34:06	DDV	Box 1 Tow 1B_EOL
13:46:20	DDV	Box 1 Tow 2_SOL
14:14:52	DDV	Box 1 Tow 2_EOL
14:29:05	DDV	Box 1 Tow 3_SOL
14:53:28	DDV	Box 1 Tow 3_EOL
14:57	DDV	Camera alongside
15:04	DDV	Camera recovered to deck
17:45		Arrive back at Mylor

Project information

CIFCA_SAC_Edd_2019_DDV_Boxes1-3

Project	Eddystone SAC (Year 6) DDV	
Survey code	2019_CIFCA_SAC_Edd_DDV	
Location	Eddystone	
Date	02/07/2019	
Vessel	Tiger Lily	
SeaSpyder laser calibration:	Right vertical - 208mm, Left vertical - 206mm Lower horizontal - 200mm, Upper horizontal - 200mm	
Olex mark	Triple fish	
Staff		
Survey role	Company	Name
Principal Scientific Officer	Cornwall IFCA	Colin Trundle
Scientific Officer	Cornwall IFCA	Annie Jenkin
Scientific Officer	Cornwall IFCA	Kate Owen
Skipper	Independent	David Raymond
Weather and tides		
High water time (Plymouth):	05:00 (UTC)	
High water (m)	5.2 m	
Time weather recorded (Falmouth)	06:36	
Wind direction	NE	
Wind speed	3-8 (gusting 13) mph	
Beaufort scale	2	
Cloud coverage	0/8	
Time weather recorded (Plymouth)	12:30	
Wind direction	NE	
Wind speed	6 mph	
Beaufort scale	2	
Cloud coverage	0/8	
Safety		
Toolbox talk time	07:45	
Induction	None required	
Summary of operations		
Time (UTC)	Type	Activity
06:00		Onboard setting up
06:15		Depart Mylor
07:40		Arrive on survey site
07:45		Toolbox talk
07:50	DDV	Camera deployed
07:55:36	DDV	Box3_T4_SOL
08:08	DDV	Lost comms
08:09	DDV	Comms back
08:11	DDV	Lost comms
08:12	DDV	Comms back
08:20	DDV	Lost comms

CIFCA_SAC_Edd_2019_DDV_Boxes1-3

08:20	DDV	Comms back
08:21:45	DDV	Box3_T4_EOL
08:35:12	DDV	Box3_T5_SOL
08:59:57	DDV	Box3_T5_EOL
09:15:04	DDV	Box3_T6_SOL
09:38:32	DDV	Box3_T6_EOL
09:43	DDV	Start Hypack logging
10:14:11	DDV	Box2_T4_SOL
10:37:30	DDV	Box2_T4_EOL
10:50:15	DDV	Box2_T5_SOL
11:13:31	DDV	Box2_T5_EOL
11:24:57	DDV	Box2_T6_SOL
11:48:26	DDV	Box2_T6_EOL
12:10		Lunch and steam to next box
12:43:36	DDV	Box1_T4_SOL
13:02	DDV	Lost comms
13:03	DDV	Comms back
13:06:54	DDV	Box1_T4_EOL
13:20:36	DDV	Box1_T5_SOL
13:36	DDV	Camera hitched
13:37:28	DDV	Camera recovered to surface. Box1_T5_EOL.
13:43:08	DDV	Box1_T5B_SOL. Line continued from previous hitch point
13:51:21	DDV	Box1_T5B_EOL
14:04:18	DDV	Box1_T6_SOL
14:24	DDV	Camera hitched on pot line
14:26	DDV	Camera brought to surface
14:29:50	DDV	Box1_T6_EOL
14:45		Depart survey site
16:10		Arrive at Bizzies survey site
16:24		Finish survey work at Bizzies site
18:00		Arrive back at Mylor