



Inshore Fisheries and  
Conservation Authority

## Eddystone Reefs Drop Down Video 2018



### Survey field report for the 2018 Eddystone Reefs Drop Down Video Survey

Completed by: Cornwall Inshore Fisheries and Conservation Authority  
(Cornwall IFCA)

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## 1 Project Background

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 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 2018 was the fifth 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 2). 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 and 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 (MESH) recommended operating guidelines for underwater video surveys.
- Repeat camera tows carried out in 2014, 2015, 2016 and 2017 where possible

## 2 Methodology

The survey was carried out using DDV along transects within the Eddystone Reefs onboard Cornwall IFCA's Research Vessel (R/V) Tiger Lily VI. Surveying was carried out in line with Mapping European Seabed Habitats (MESH) recommended operating guidelines for underwater video and photographic imaging techniques (Coggan *et al.*, 2017).

## 2.1 Survey Area

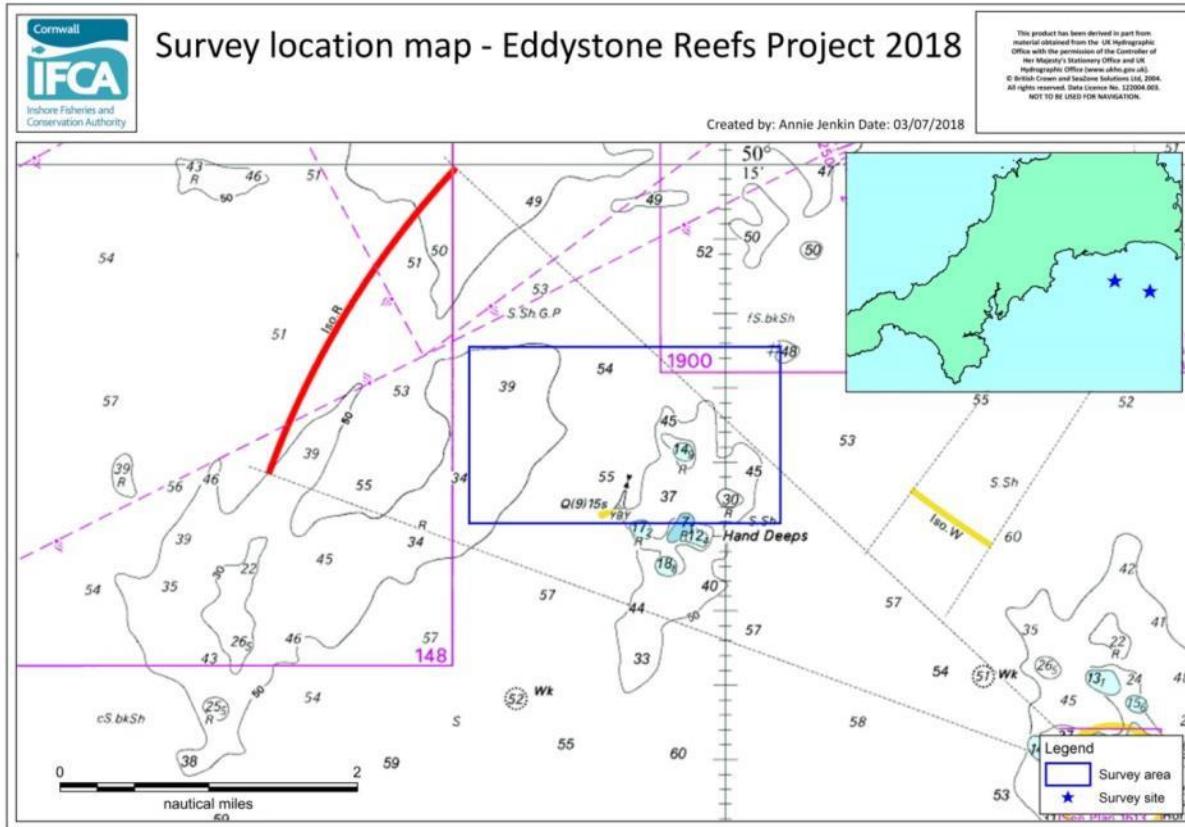


Figure 1: The 2018 survey area in the Eddystone Reefs

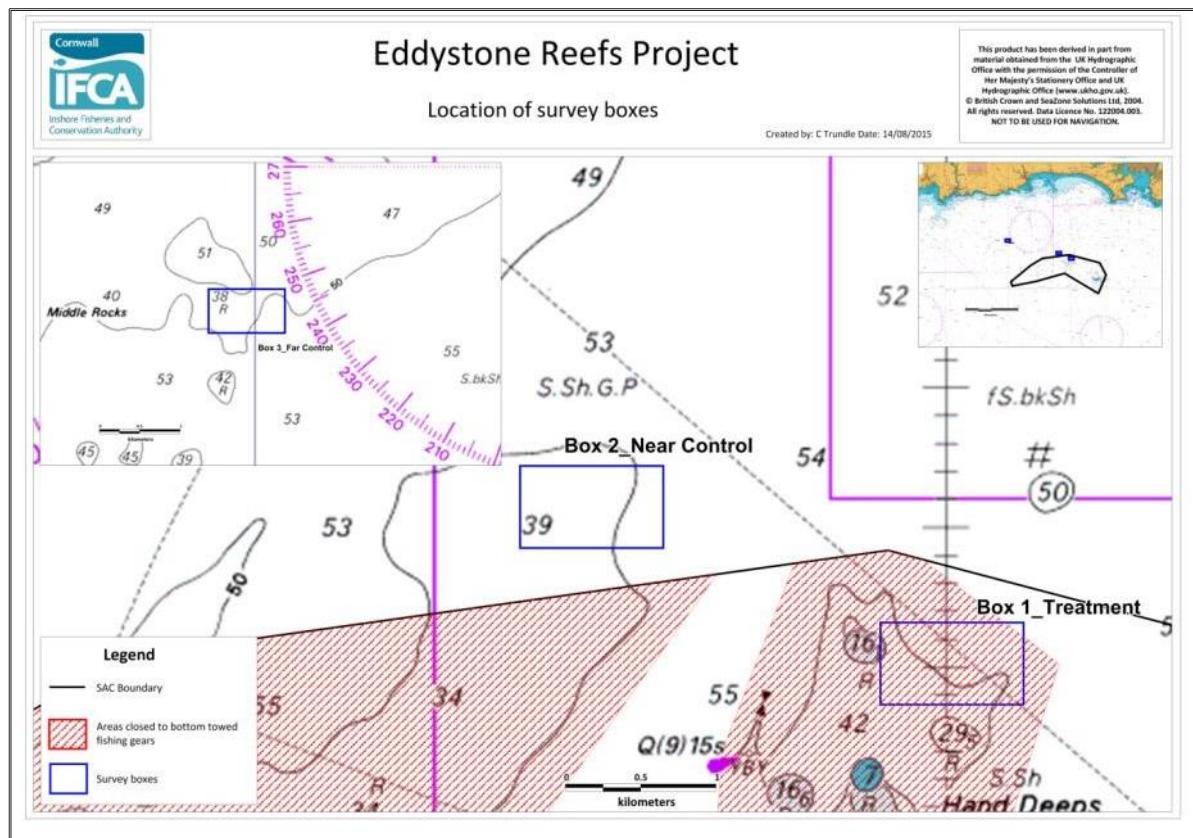


Figure 2: Location of the three survey boxes; Box 1: Treatment, Box 2: Near Control and Box 3: Far Control used in the Eddystone Reefs Project survey.

## 2.2 Vessel Specifications

The survey was undertaken from Cornwall IFCA's R/V Tiger Lily VI (Figure 3). The vessel has been refitted for survey work and includes a purpose built survey station within the wheelhouse (See Annex 1). R/V Tiger Lily VI is fitted with an inverter and uninterruptable power supply (UPS) to provide stable 240 v power, NMEA outputs and a dedicated GPS with WAAS enabled. All position information was recorded in the Long/Lat WGS84 projection and taken from a single GPS (Furuno GP-32). 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.

Tiger Lily VI is an MCA coded Cat 2 vessel and is fitted with all necessary safety equipment including life rafts, first aid kits and fire suppression systems. Full vessel specifications are in Annex 1.



Figure 3: Cornwall IFCA's dedicated survey vessel, R/V Tiger Lily VI.

## 2.3 Personnel

On the 8<sup>th</sup> May 2018 the crew consisted of three scientific officers and a skipper. Crew roles were; winch operator, camera controller, position logger/deck hand. On the 20<sup>th</sup> June 2018 the crew consisted of three scientific officers and crew roles were again as above.

## 2.4 Personal Protective Equipment (PPE)

R/V Tiger Lily VI is MCA coded to Cat 2 and is fitted with all necessary safety equipment, including life rafts, lifejackets, first aid kits and fire suppression systems. While working on deck all crew are required to wear lifejackets, personal location beacons (PLBs) and steel toe cap boots. There were no reported accidents or near misses on the day.

## 2.5 Drop Down Video (DDV) Survey

### 2.5.1 Equipment specification

The camera used for the DDV survey was an STR SeaSpyder drop camera system contained in a custom built frame, allowing high resolution stills of the seabed to be taken using a surface controlled digital SLR camera (Figure 4). Separate real time video, with user-programmable overlay, allows positional information, time, bearing and depth to be recorded on the video output. Details of the system are available online:

<http://www.str-subsea.com/sales/str-SeaSpyder-drop-camera-system>



Figure 4: SeaSpyder drop camera housed in a purpose built frame on the aft deck and in the deployment position onboard R/V Tiger Lily VI.

The camera equipment specifications are shown in Table 1.

Table 1: Cornwall IFCA camera equipment specifications

Equipment	Camera System
Manufacturer	SeaSpyder
Video	HD video 600 lines PAL
Stills	18 mega pixels
Trigger	Remote from deck
Height control	Video footage
Lighting	Four high density LED 20w lamps
Scale bar	4 Dual lasers for precise imagery scaling
Additional info	<ul style="list-style-type: none"> <li>• Full remote control of camera functions including automatic and manual focus control</li> <li>• ‘On-the-fly’ image download</li> <li>• High speed digital telemetry link to camera and sensors</li> <li>• High power underwater flash</li> </ul>

## 2.5.2 Methodology

The DDV survey was planned from the results of previous year's surveys. Drift tows were planned within each of the survey boxes using previous survey positions which were loaded in to the Olex navigation plotter onboard the vessel.

Prior to the deployment of the SeaSpyder for each transect, the video text overlay was checked and adjusted to display the survey name and transect number (e.g. "20180508 Cornwall IFCA DDV '\_Site\_Location'\_ 'Station\_no.' '\_Tow\_no.'"') and the GPS, heading and depth information was checked to ensure that it was updating correctly. The SeaSpyder camera was deployed through the A-frame on the stern of R/V Tiger Lily VI (see Annex 1) and lowered to the seabed. The video was set to record as the camera neared the seabed. A waypoint (mark) was created in OLEX 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 and periodically landed on the seabed to allow a high quality still image to be taken. Still images were captured at a frequency of one every 60 seconds; image separation varied slightly to ensure that the stills taken were of good quality (e.g. taken when the frame was stable and the lens unobstructed) which sometimes led to a delay.

## 2.5.3 Data handling

OLEX navigation software was used to record marks at the start and end of each transect and for each still image. The NMEA data recorded in the Com Port A log files from the SeaSpyder was used in data processing to obtain exact image locations. Com Port A data was logged for the duration of each tow and saved in a .txt file format to the Topside PC. All log files were transferred to a WD passport for transport after the completion of the tows.

Once opened in Microsoft Excel these files had the GGA strings extracted. Times and GPS locations were then extracted from the GGA sentence and position data converted from degrees and decimal minutes to a decimal degree format. Appropriate headers were then added. The time of each still image was matched to these log files and the correct locations for each image were extracted. SOL and EOL positions were recorded as the start and end of each tow video. The data was transferred to MapInfo Professional Version 17.0 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 transect, the still images were transferred to the SeaSpyder topside control unit using FileZilla and filed by transect number. Video files were captured to the SeaSpyder topside unit data drive (D:/). The stills and video files were transferred from the topside unit to a WD Passport for transport and storage.

### 3 Results

#### 3.1 Drop Down Video

The Eddystone Project DDV surveys were carried out on the 8<sup>th</sup> May 2018 and the 20<sup>th</sup> June 2018 with six video transects being successfully completed in each survey box. High quality video data and stills were obtained across all transects within the three survey boxes. Daily logs from each of the surveys are shown in Annex 2. A summary of the video data collected during the DDV survey for the Eddystone is shown in Annex 3 and the position information for the stills images is shown in Annex 4.

The three tows conducted in each survey box on the 8<sup>th</sup> May were named Tows 1, 2 and 3. The three tows conducted in each survey box on the 20<sup>th</sup> June 2018 were named Tows 4, 5 and 6. All image and video file names follow this format, with the exception of the video overlay text. On video overlay text for the 20<sup>th</sup> June the tows are again called Tows 1, 2 and 3, instead of Tows 4, 5 and 6.

In Box 2 on Tow 1 there was an issue with video recording and the video was started at 09:40:18, with the first image taken prior to this at 09:38. The video SOL location was recorded as the location at 09:40:18. In Box 3, Tow 6 was ended slightly early, as Tiger Lily was forced to alter course to avoid a scalloper working in the area. On this tow 16 images were taken in total. Occasionally there were issues with the camera freezing resulting in an image not being taken on the minute mark. This occurred relatively infrequently and additional images were taken on these occasions to ensure at least 20 high quality images were obtained for each transect.

During each tow the UTC time for each image was recorded by a Scientific Officer in the daily survey log in Microsoft Excel. During post survey data processing it was identified that the recorded image times did not match up to the time stamp in the image file names. By watching the tow video it was identified that on the first day (28/05/2018) there was an inconsistency between the UTC time on the camera and the time on the PC (From which the file names originate) by approximately 1 minute and 12 seconds. All image file names were subsequently corrected by 1 minute and 12 seconds to match up with the UTC time at which they were taken, although there may be a 00:00:01 error. Through the same process it was identified that on the second day of surveying (20/06/2018) there was an inconsistency between the UTC time stamp on the camera and the time on the PC by approximately 13 seconds. All image file names were subsequently corrected by 13 seconds to match up with the UTC time at which they were taken, although again there may be a 00:00:01 error. This issue did not affect the positioning of the images, which were taken from the log file which had the same data source as the video overlay.

#### 3.2 Site Descriptions

All three survey areas were dominated by large areas of mixed sediment with smaller areas of bedrock/ reef.

A number of conspicuous fauna were observed on the reef habitat including dead man's fingers (*Alcyonium digitatum*), pink sea fans (*Eunicella verrucosa*), spiny starfish (*Marthasterias glacialis*), cup corals (*Caryophyllia smithii*), common urchin (*Echinus esculentus*) and unidentified sponges. Fauna which was recorded in the coarse sediment included scallops, hydroids, polychaete tubes and anemones.

An overview of each tow including the Side Scan Sonar (SSS) mosaic with the position of the still images overlain and four representative images for each tow are shown below for each box. The position of each transect within Box 1 is shown in Figure 5 Box 2 in Figure 12 and Box 3 in Figure 19. An overview of each site including SSS, representative still images and habitat classification is shown in Figure 6 to Figure 11 for Box 1, Figure 13 to Figure 18 for Box 2 and Figure 20 to Figure 25 for Box 3.

# Location of still image positions within Box 1 Eddystone reef project 2018

Created by: KO Date: 16/08/18

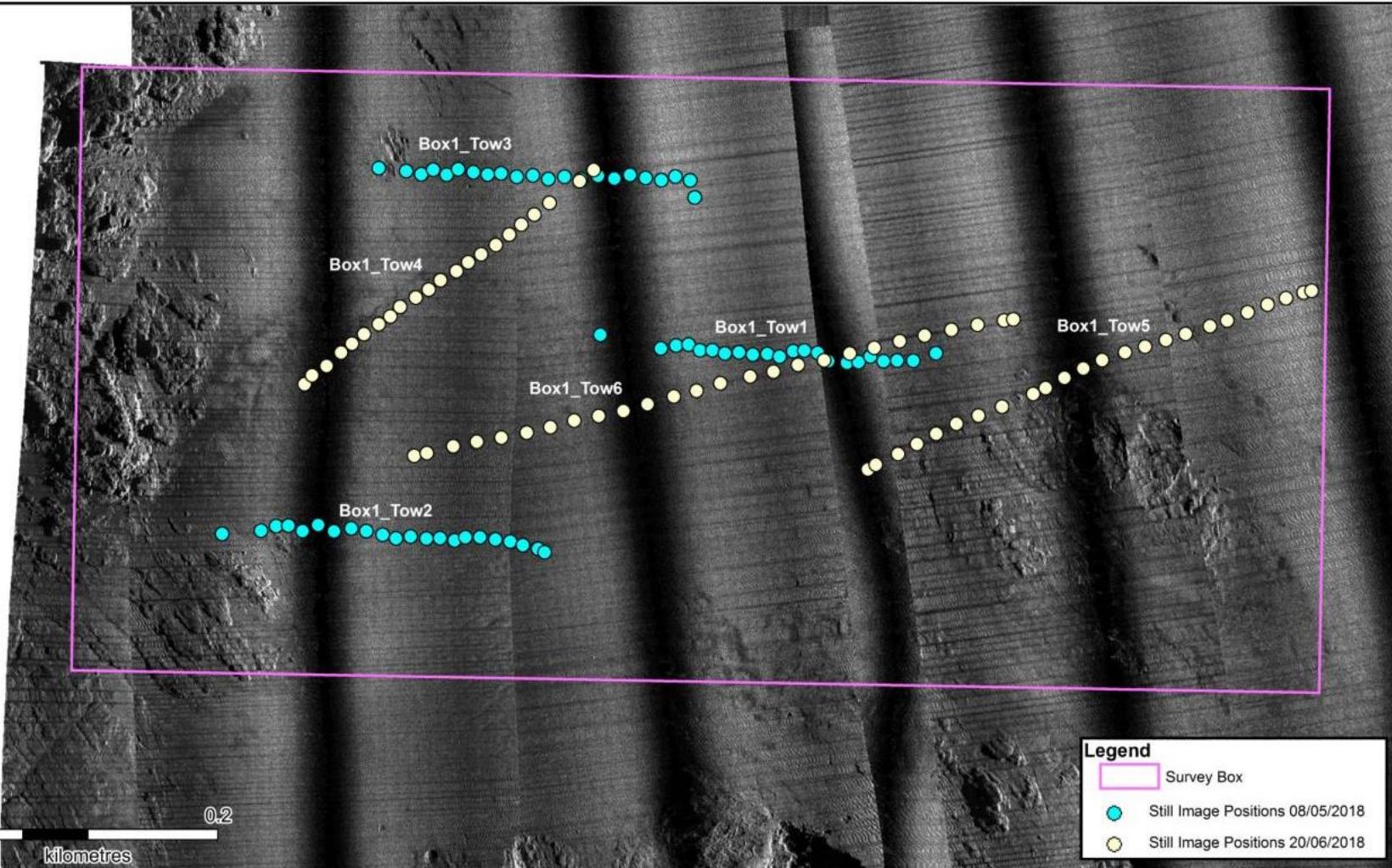


Figure 5: Location of the still images on DDV transects in Box 1 of the Eddystone reef project 2018. Tows carried out on 08/05/2018 and the 20/06/2018.



## Box 1 Tow 1

### Cornwall IFCA Eddystone Reefs DDV Survey

Site: Start Point to Plymouth Sound and Eddystone Special Area of Conservation  
 Survey code: 20180508\_CIFCA\_SAC\_EDD\_DDV

Created by: KO 16/08/2018

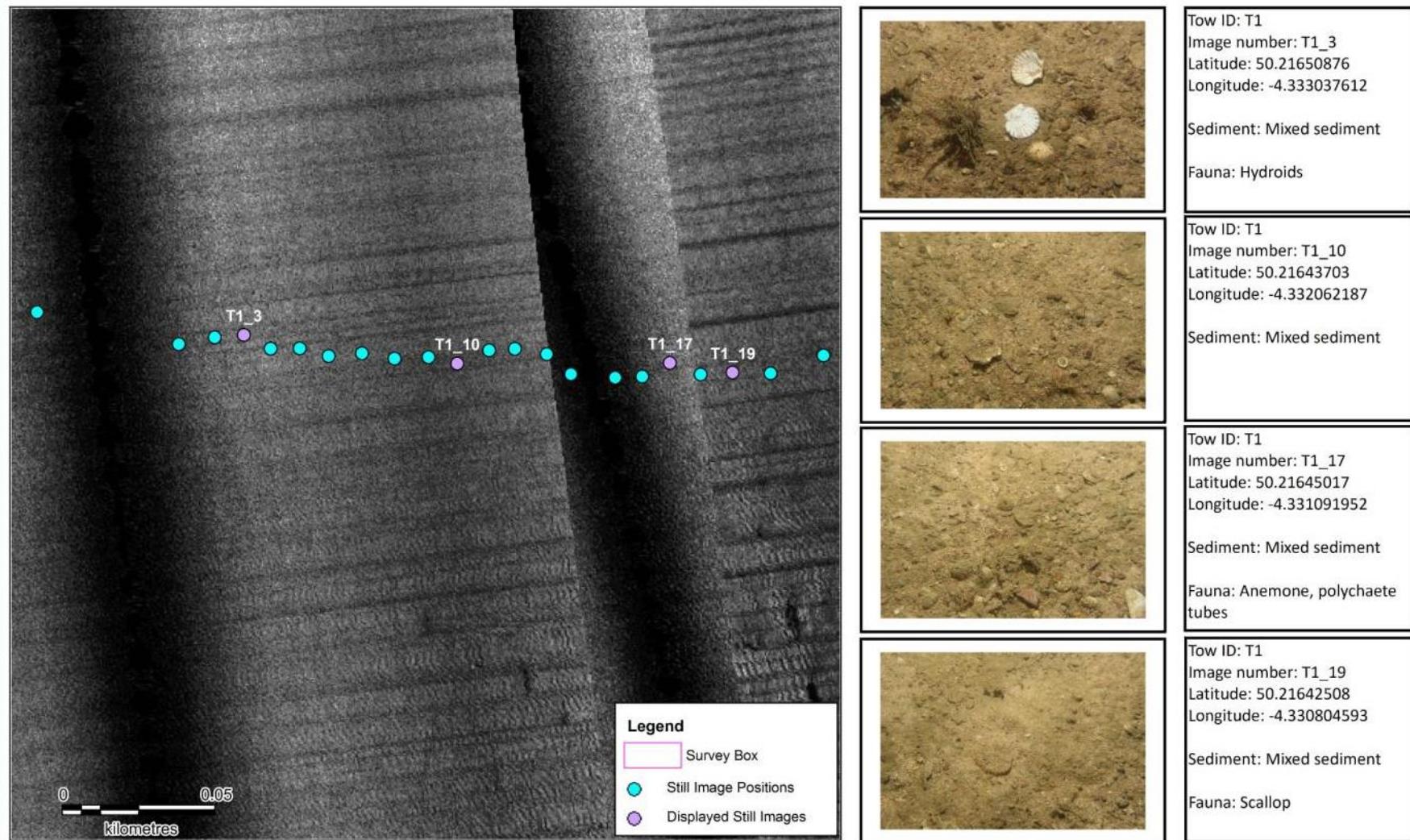


Figure 6: Station overview for Box 1 Tow 1 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on 08/05/2018.

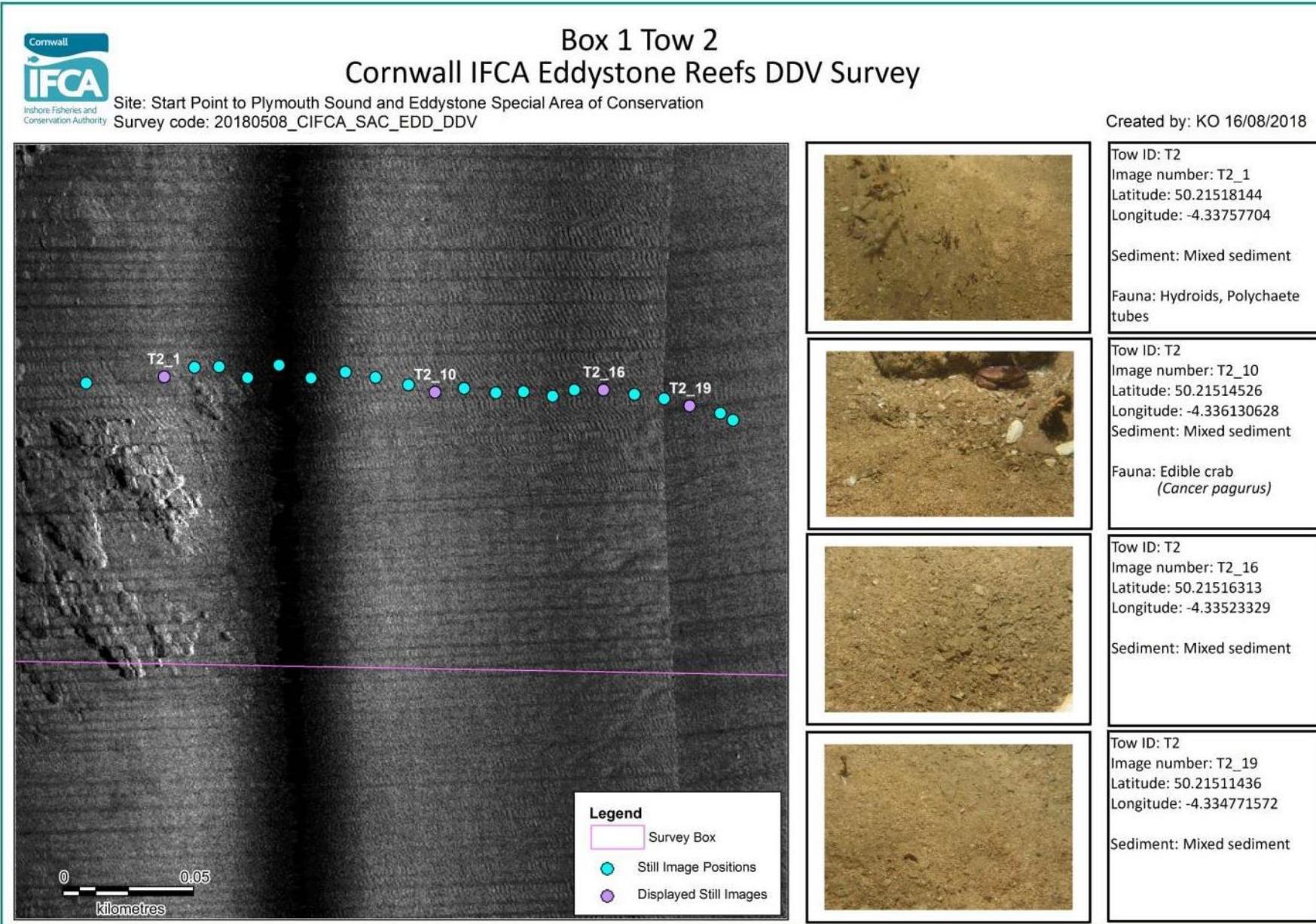


Figure 7: Station overview for Box 1 Tow 2 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on 08/05/2018.

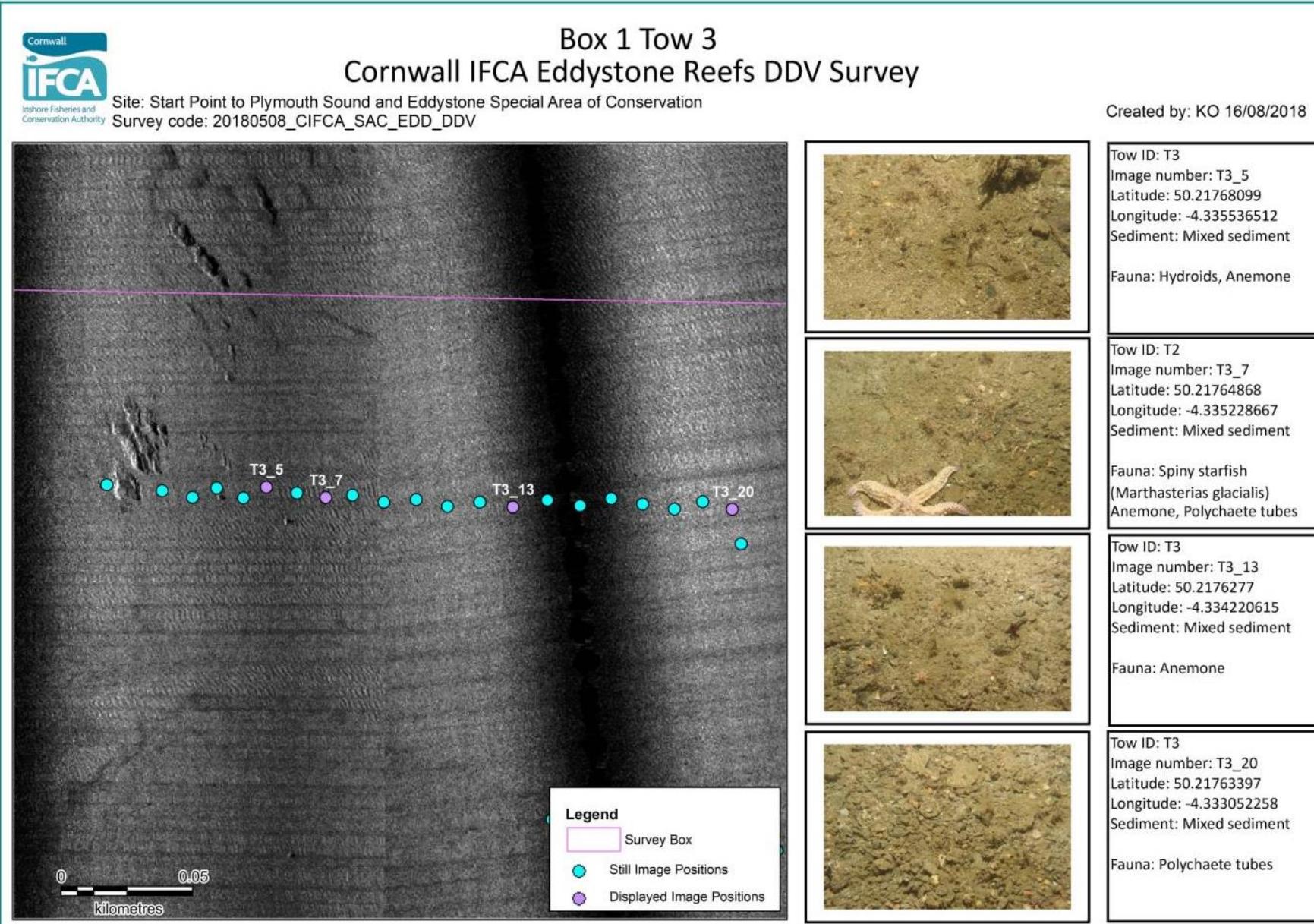


Figure 8: Station overview for Box 1 Tow 3 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on 08/05/2018.

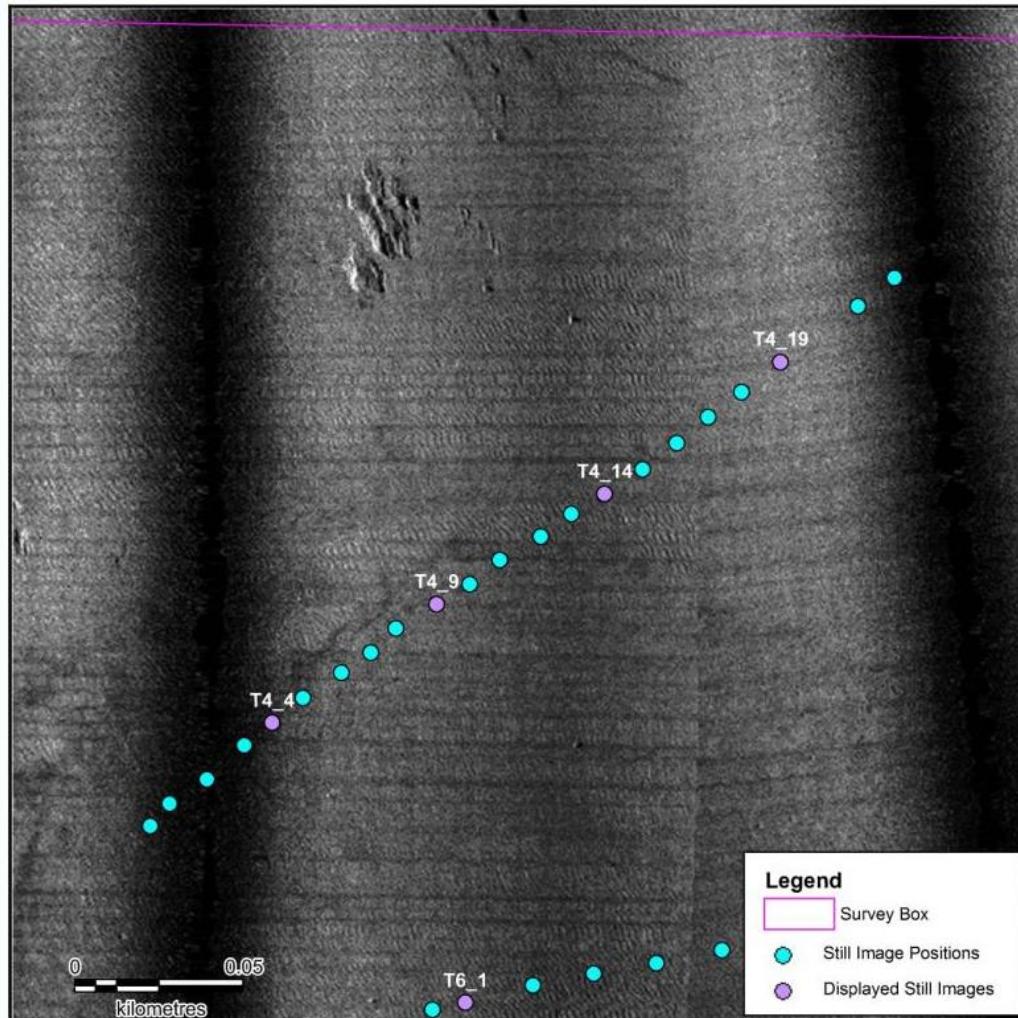


## Box 1 Tow 4

### Cornwall IFCA Eddystone Reefs DDV Survey

Site: Start Point to Plymouth Sound and Eddystone Special Area of Conservation  
Survey code: 20180620\_CIFCA\_SAC\_EDD\_DDV

Created by: KO 17/08/2018



Tow ID: T4  
Image number: T4\_4  
Latitude: 50.21647295  
Longitude: -4.336638753  
Sediment: Mixed sediment  
  
Fauna: Hydroids, Cup coral (*Caryophyllia smithii*)



Tow ID: T4  
Image number: T4\_9  
Latitude: 50.21679753  
Longitude: -4.335965355  
Sediment: Mixed sediment  
  
Fauna: Spiny starfish (*Marthasterias glacialis*)



Tow ID: T4  
Image number: T4\_14  
Latitude: 50.21710108  
Longitude: -4.335274737  
Sediment: Mixed sediment  
  
Fauna: Hydroids, Polychaete tubes



Tow ID: T4  
Image number: T4\_19  
Latitude: 50.21746151  
Longitude: -4.334554073  
  
Sediment: Mixed sediment  
  
Fauna: Hydroids

Figure 9: Station overview for Box 1 Tow 4 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on 20/06/2018 and other tows carried out on the 20/06/2018 are also visible in the overview box.

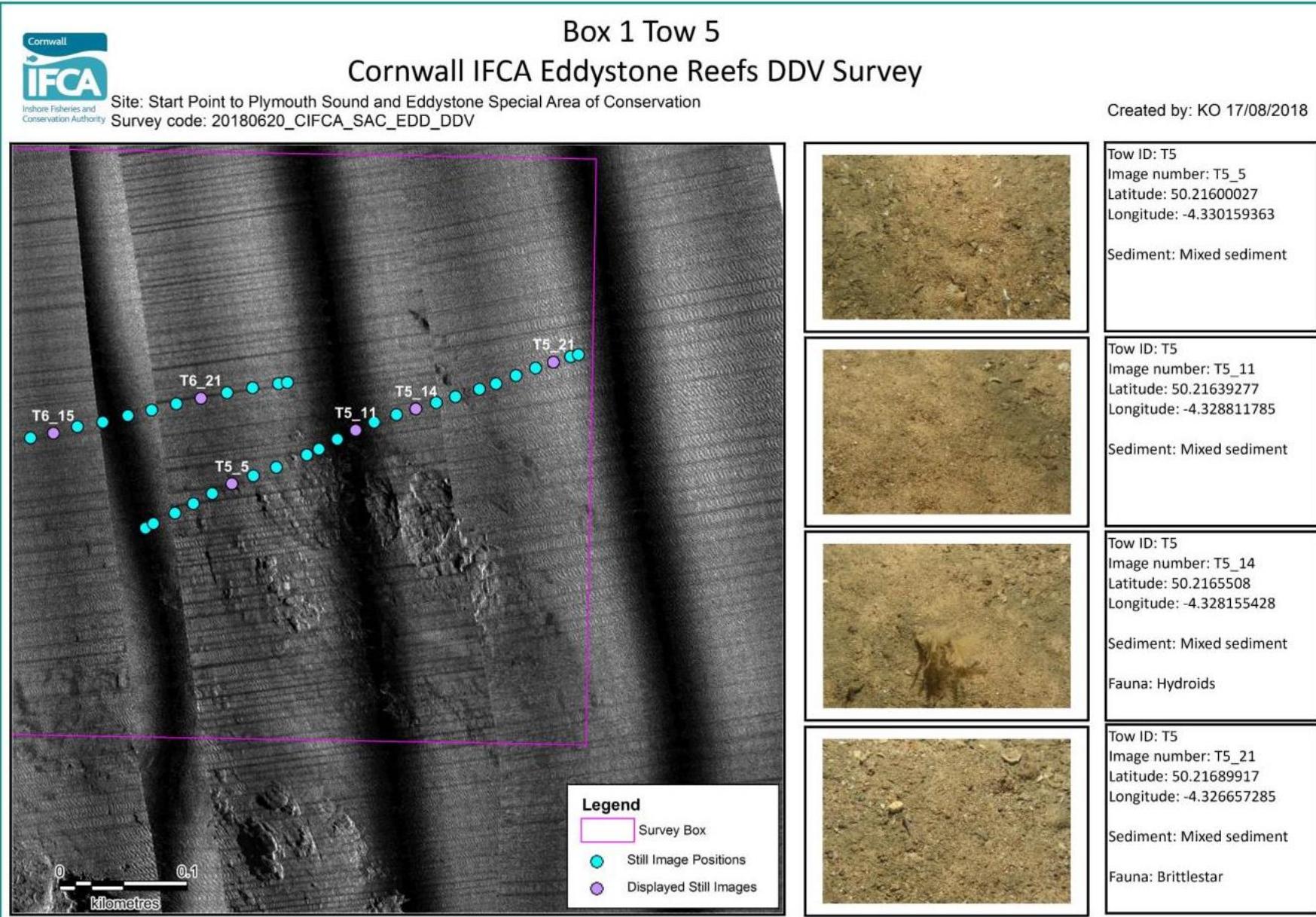


Figure 10: Station overview for Box 1 Tow 5 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on 20/06/2018 and other tows carried out on the 20/06/2018 are also visible in the overview box.

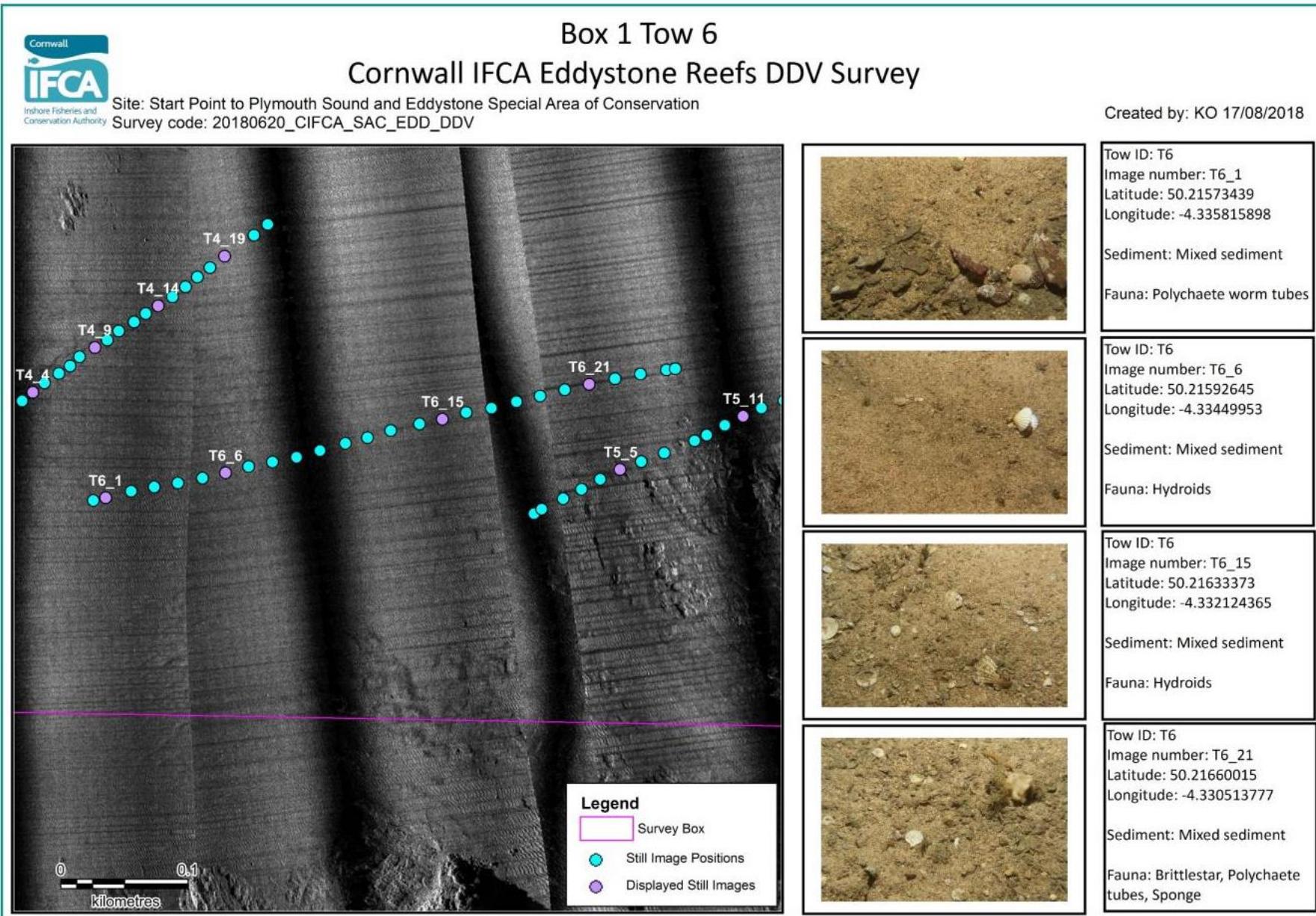


Figure 11: Station overview for Box 1 Tow 6 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on 20/06/2018 and other tows carried out on the 20/06/2018 are also visible in the overview box.

## Location of still image positions within Box 2 Eddystone reef project 2018

Created by: KO Date: 16/08/18

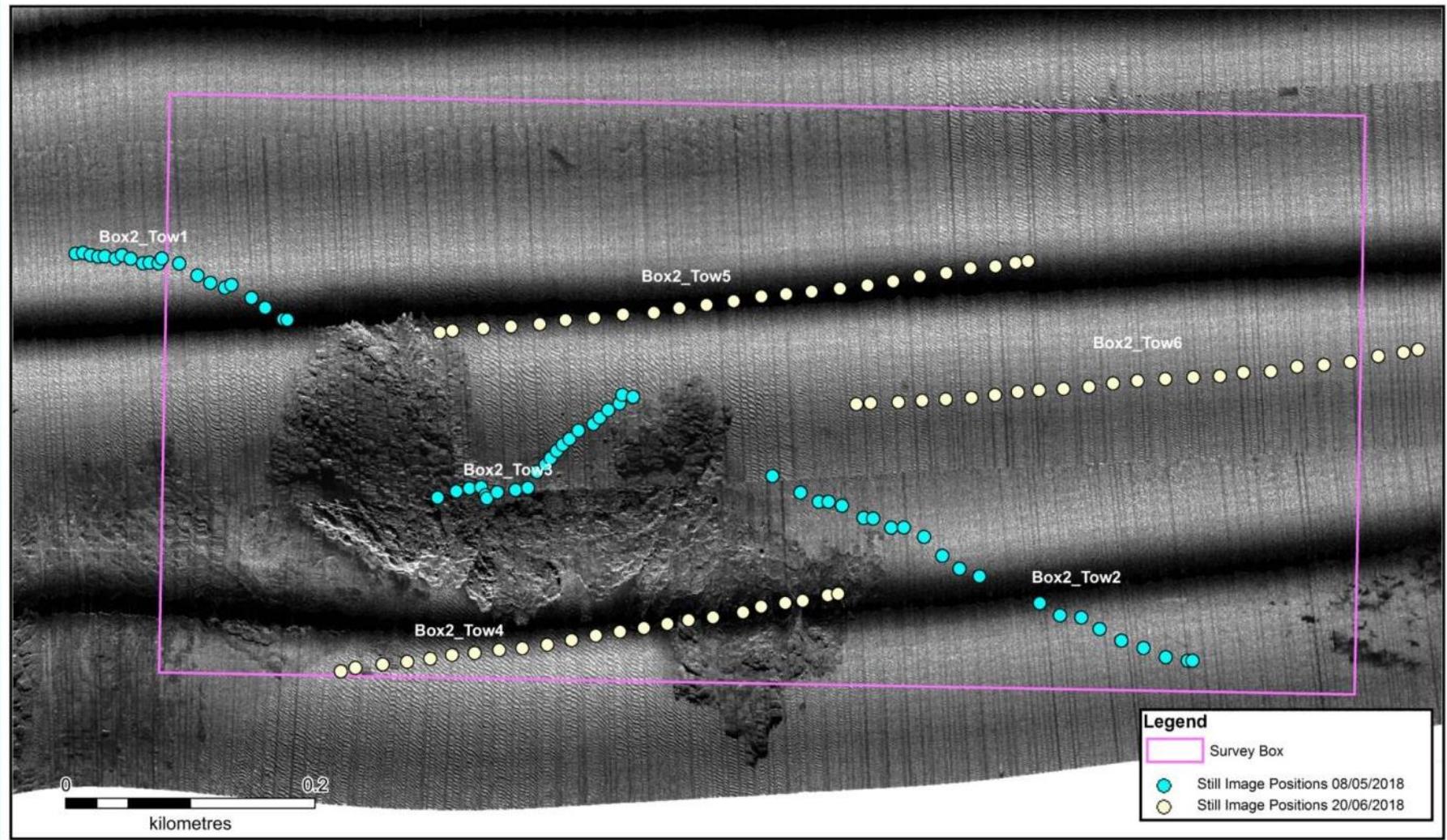


Figure 12: Location of the still images on DDV transects in Box 2 of the Eddystone reef project 2018. Tows carried out on 08/05/2018 and the 20/06/2018.



## Box 2 Tow 1

### Cornwall IFCA Eddystone Reefs DDV Survey

Site: Start Point to Plymouth Sound and Eddystone Special Area of Conservation  
Survey code: 20180508\_CIFCA\_SAC\_EDD\_DDV

Created by: KO 16/08/2018

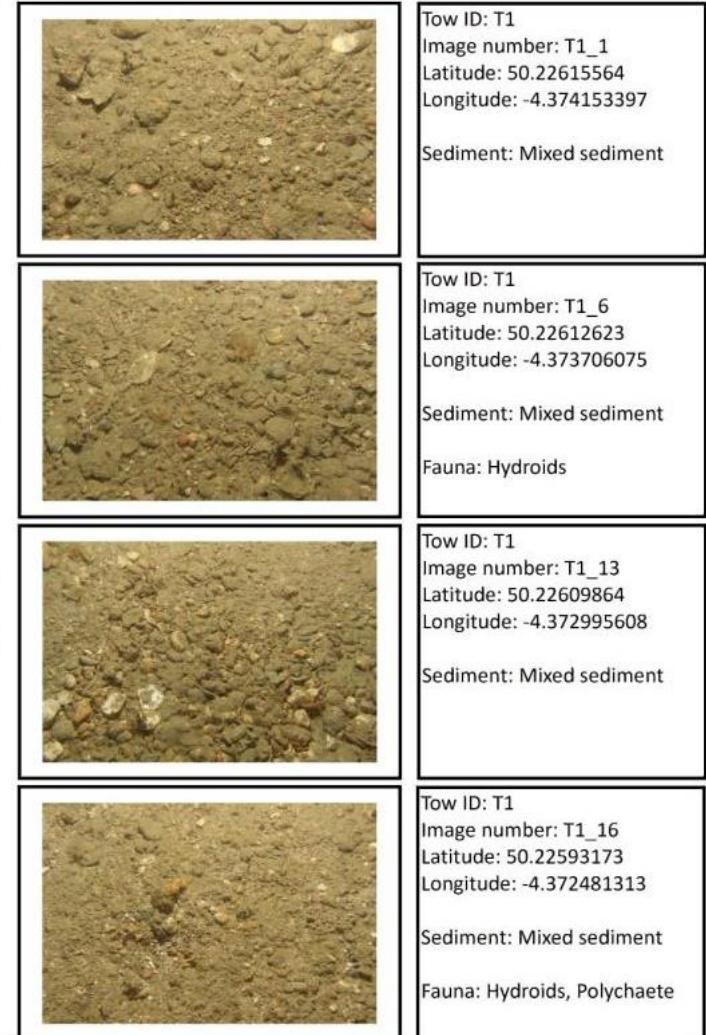
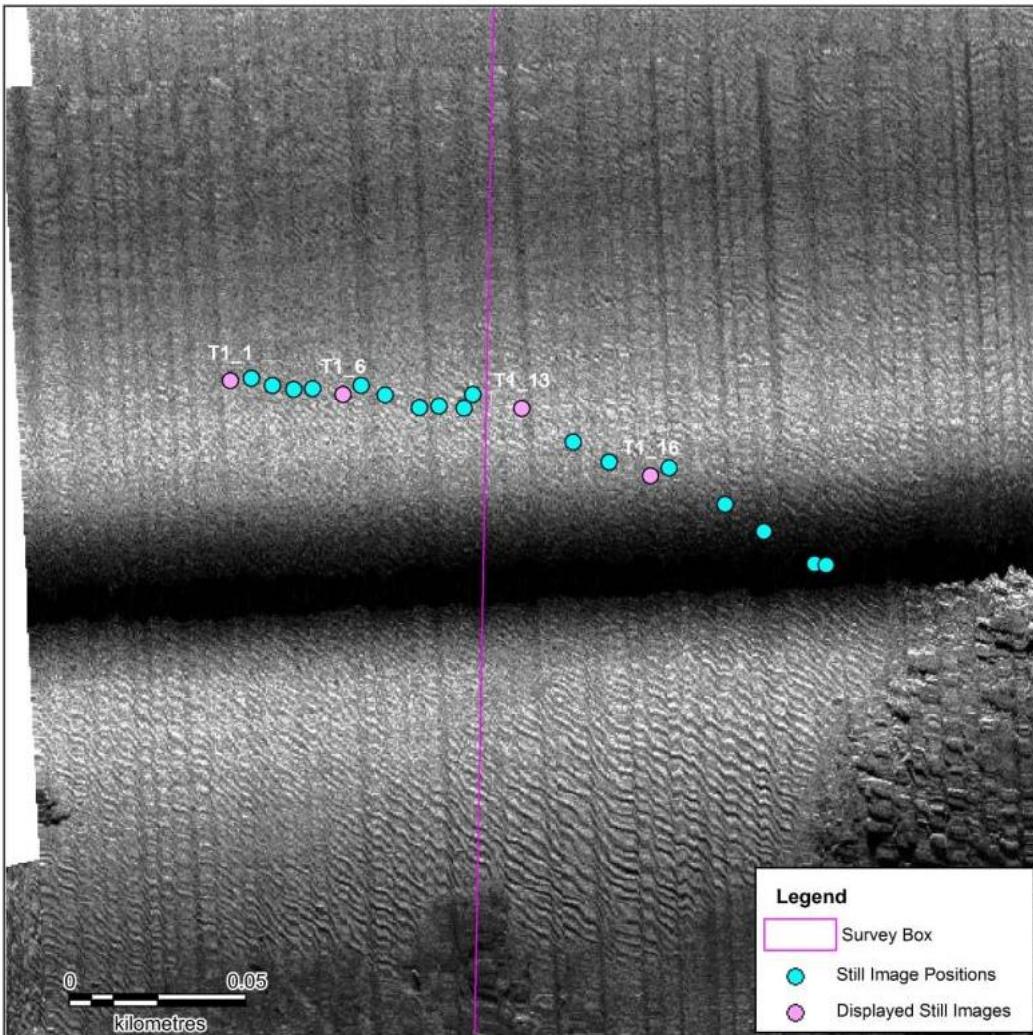


Figure 13: Station overview for Box 2 Tow 1 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on 08/05/2018.

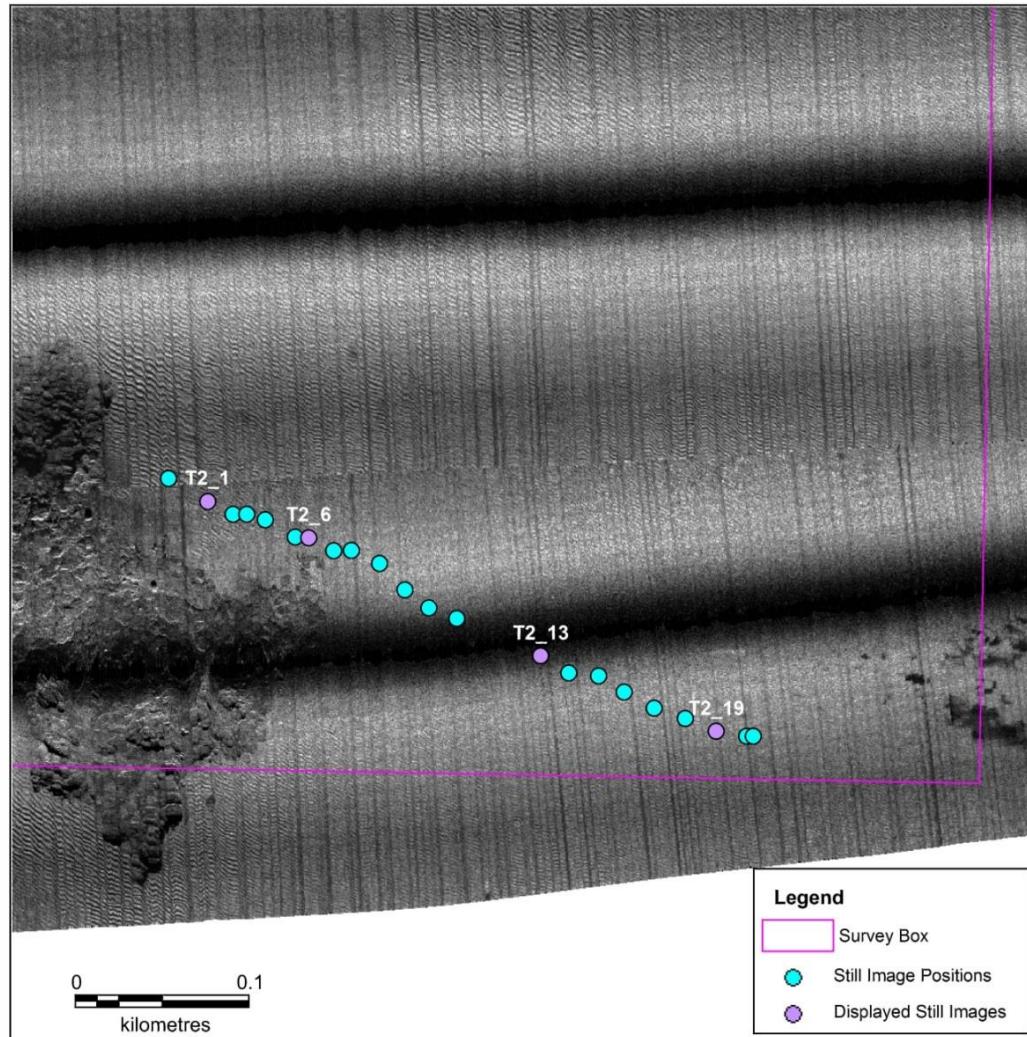


## Box 2 Tow 2

### Cornwall IFCA Eddystone Reefs DDV Survey

Site: Start Point to Plymouth Sound and Eddystone Special Area of Conservation  
 Survey code: 20180508\_CIFCA\_SAC\_EDD\_DDV

Created by: KO 16/08/2018



	Tow ID: T2 Image number: T2_1 Latitude: 50.22454443 Longitude: -4.366012362 Sediment: Mixed sediment  Fauna: Probable red gurnard ( <i>Chelidonichthys spinosus</i> )
	Tow ID: T2 Image number: T2_6 Latitude: 50.22436704 Longitude: -4.365197145 Sediment: Mixed sediment  Fauna: Hydroids, Anemone
	Tow ID: T2 Image number: T2_13 Latitude: 50.2237851 Longitude: -4.363320112 Sediment: Mixed sediment  Fauna: Scallops, Polychaete tubes
	Tow ID: T2 Image number: T2_19 Latitude: 50.22341518 Longitude: -4.361903435 Sediment: Mixed sediment  Fauna: Polychaete tubes

Figure 14: Station overview for Box 2 Tow 2 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on 08/05/2018.

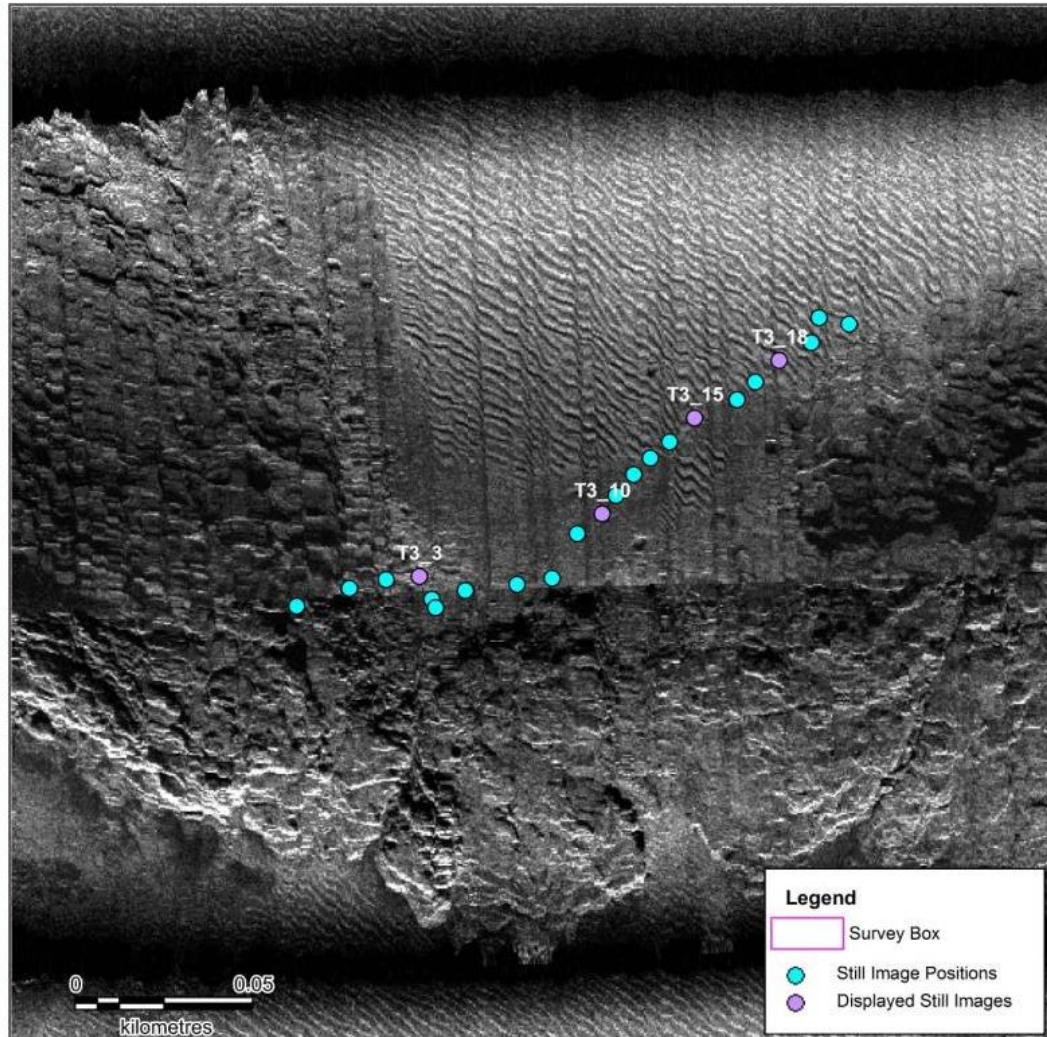


## Box 2 Tow 3

### Cornwall IFCA Eddystone Reefs DDV Survey

Site: Start Point to Plymouth Sound and Eddystone Special Area of Conservation  
 Survey code: 20180508\_CIFCA\_SAC\_EDD\_DDV

Created by: KO 16/08/2018



Tow ID: T3  
 Image number: T3\_3  
 Latitude: 50.22454124  
 Longitude: -4.36957952  
 Sediment: Mixed sediment  
  
 Fauna: Pink sea fan  
*(Eunicella verrucosa)*  
 Hyroids



Tow ID: T2  
 Image number: T3\_10  
 Latitude: 50.22470884  
 Longitude: -4.368864295  
 Sediment: Mixed sediment  
  
 Fauna: Hydroids



Tow ID: T1  
 Image number: T3\_15  
 Latitude: 50.22495769  
 Longitude: -4.368505953  
 Sediment: Reef  
  
 Fauna: Cup coral  
*(Caryophyllia smithii)*  
 Hydroids



Tow ID: T1  
 Image number: T3\_18  
 Latitude: 50.22510858  
 Longitude: -4.368176855  
 Sediment: Reef  
  
 Fauna: Sea squirt, Pink sea fan  
*(Eunicella verrucosa)*  
 Cup coral *(Caryophyllia smithii)*

Figure 15: Station overview for Box 2 Tow 3 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on the 08/05/2018.

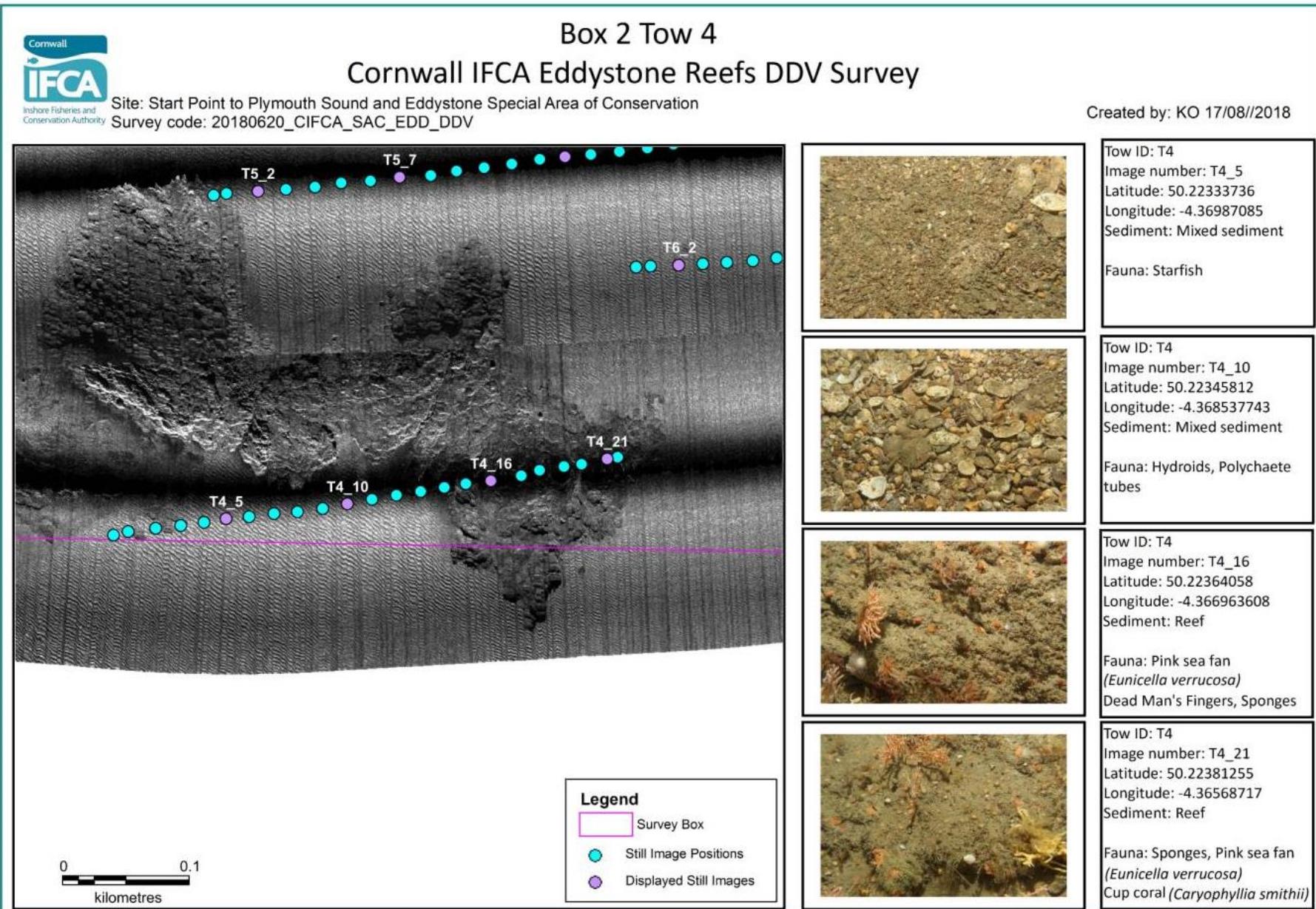


Figure 16: Station overview for Box 2 Tow 4 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on 20/06/2018 and other tows carried out on the 20/06/2018 are also visible in the overview box.

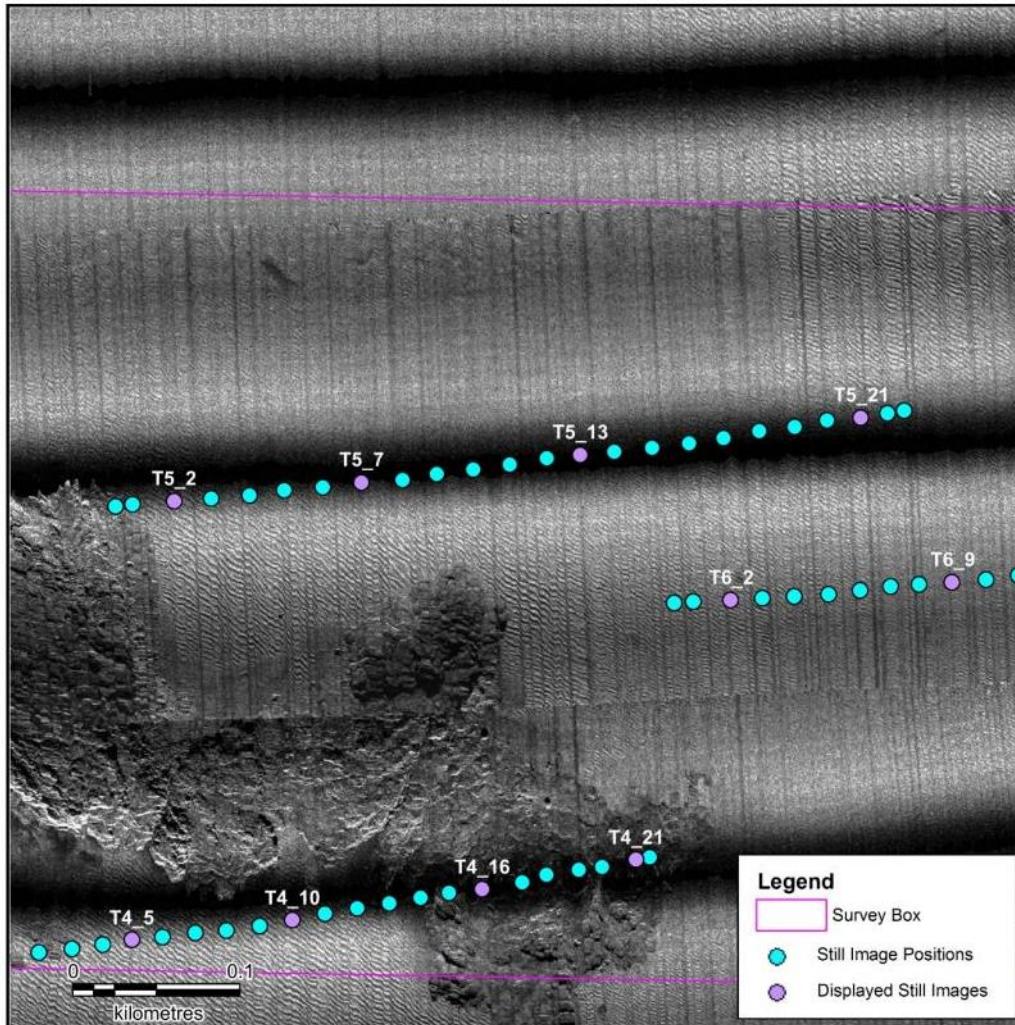


## Box 2 Tow 5

### Cornwall IFCA Eddystone Reefs DDV Survey

Site: Start Point to Plymouth Sound and Eddystone Special Area of Conservation  
Survey code: 20180620\_CIFCA\_SAC\_EDD\_DDV

Created by: KO 17/08/2018



 <p>Tow ID: T5 Image number: T5_2 Latitude: 50.22567451 Longitude: -4.369585535</p> <p>Sediment: Mixed sediment with pebbles</p> <p>Fauna: Polychaete tubes</p>
 <p>Tow ID: T5 Image number: T5_7 Latitude: 50.22579259 Longitude: -4.368029587</p> <p>Sediment: Mixed sediment with pebbles</p> <p>Fauna: Polychaete tubes</p>
 <p>Tow ID: T5 Image number: T5_13 Latitude: 50.22596141 Longitude: -4.366213302</p> <p>Sediment: Mixed sediment with pebbles</p> <p>Fauna: Polychaete tubes, Hydroids, Queen scallop (<i>Aequipecten opercularis</i>)</p>
 <p>Tow ID: T5 Image number: T5_21 Latitude: 50.22618618 Longitude: -4.363882737</p> <p>Sediment: Mixed sediment with pebbles</p> <p>Fauna: Polychaete tubes</p>

Figure 17: Station overview for Box 2 Tow 5 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on 20/06/2017 and other tows carried out on the 20/06/2018 are also visible in the overview box.

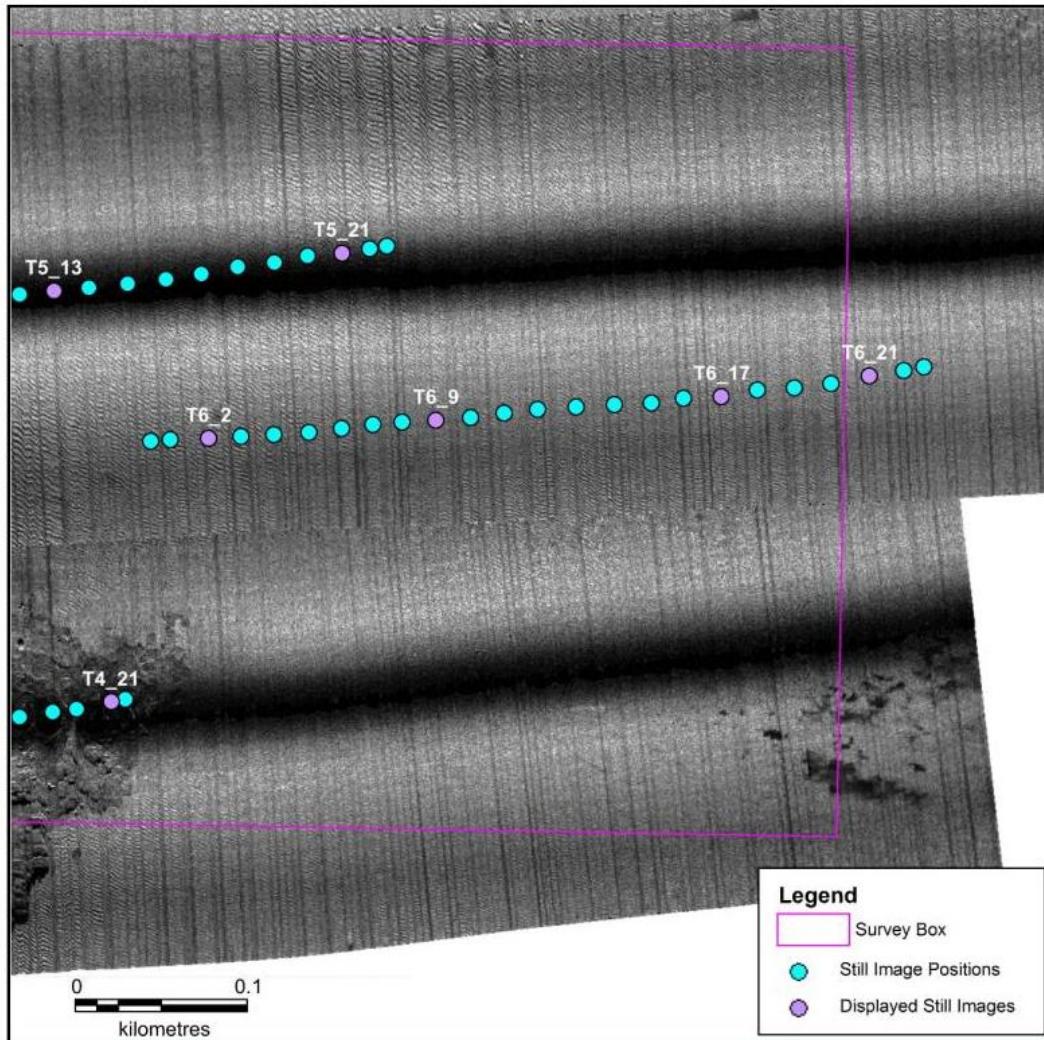


## Box 2 Tow 6

### Cornwall IFCA Eddystone Reefs DDV Survey

Site: Start Point to Plymouth Sound and Eddystone Special Area of Conservation  
 Survey code: 20180620\_CIFCA\_SAC\_EDD\_DDV

Created by: KO 17/08/2018



Tow ID: T6  
 Image number: T6\_2  
 Latitude: 50.22520304  
 Longitude: -4.364937855  
 Sediment: Mixed sediment  
 Fauna: Queen scallop (*Aequipecten opercularis*)



Tow ID: T6  
 Image number: T6\_9  
 Latitude: 50.22532037  
 Longitude: -4.3630977  
 Sediment: Mixed sediment  
 Fauna: Polychaete tubes



Tow ID: T6  
 Image number: T6\_17  
 Latitude: 50.22547089  
 Longitude: -4.360788342  
 Sediment: Mixed sediment  
 Fauna: Polychaete tubes



Tow ID: T6  
 Image number: T6\_21  
 Latitude: 50.22559414  
 Longitude: -4.359589888  
 Sediment: Mixed sediment  
 Fauna: Hydroids

Figure 18: Station overview for Box 2 Tow 6 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on 20/06/2018 and other tows carried out on the 20/06/2018 are also visible in the overview box.

# Location of still image positions within Box 3 Eddystone reef project 2018

Created by: KO Date: 16/08/18

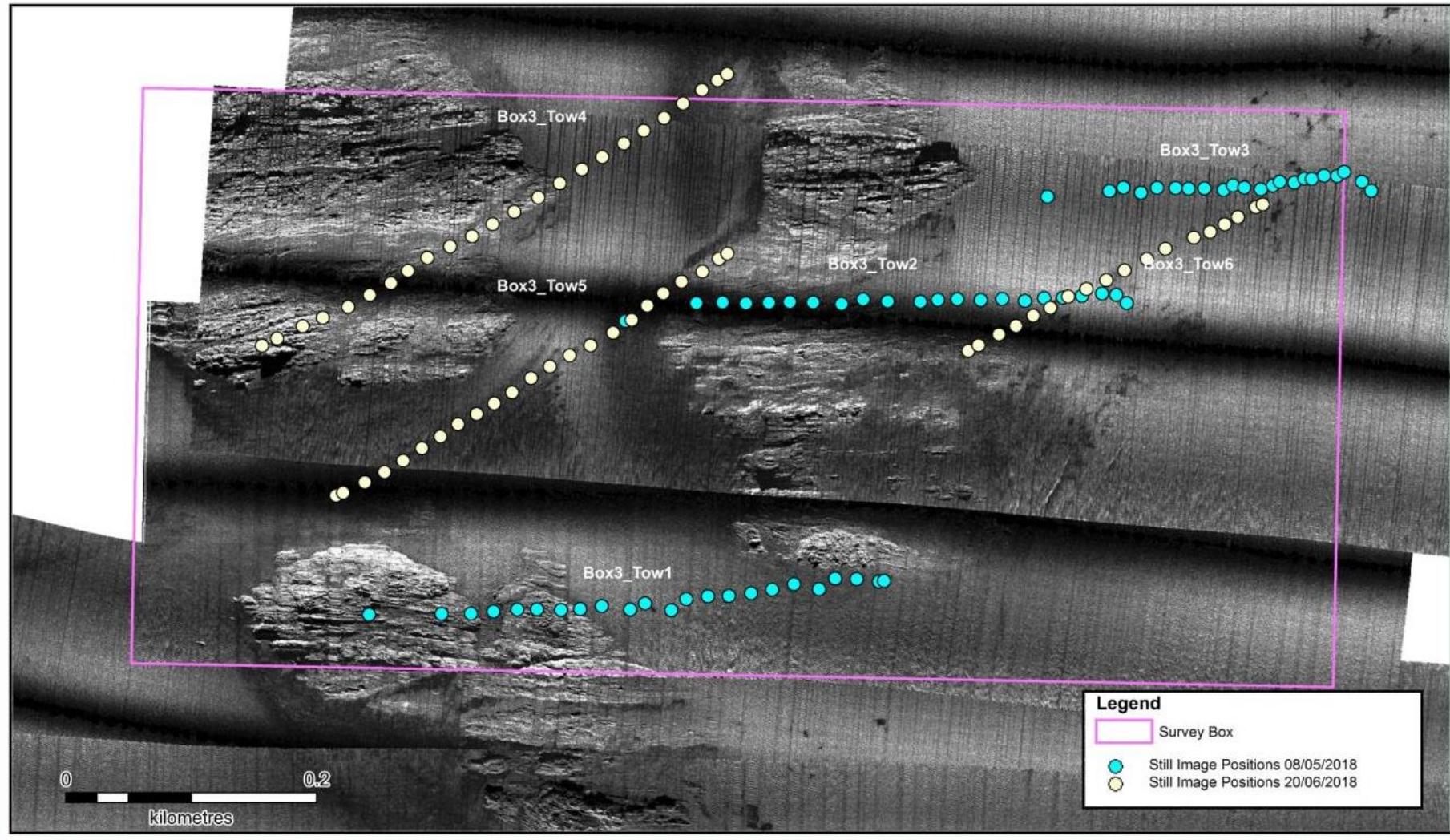


Figure 19: Location of the still images on DDV transects in Box 3 of the Eddystone reef project 2018. Tows carried out on 08/05/2018 and the 20/06/2018.

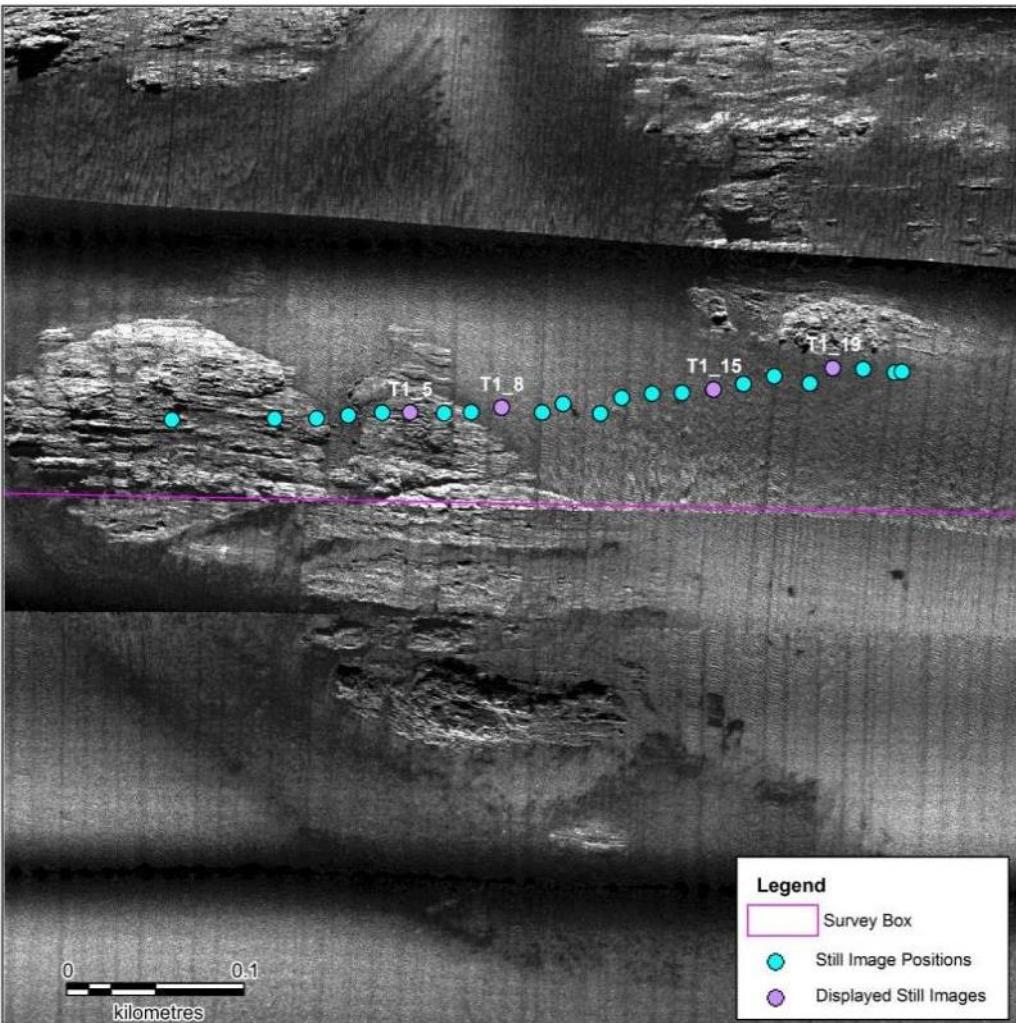


## Box 3 Tow 1

### Cornwall IFCA Eddystone Reefs DDV Survey

Site: Start Point to Plymouth Sound and Eddystone Special Area of Conservation  
 Survey code: 20180508\_CIFCA\_SAC\_EDD\_DDV

Created by: KO 16/08/2018



	Tow ID: T1 Image number: T1_5 Latitude: 50.24519857 Longitude: -4.503519245 Sediment: Reef Fauna: Pink sea fan ( <i>Eunicella verrucosa</i> ) Cup coral ( <i>Caryophyllia smithii</i> ) and Hydroids
	Tow ID: T1 Image number: T1_8 Latitude: 50.24523314 Longitude: -4.5028015 Sediment: Reef Fauna: Sponges, Hydroids, Cup coral ( <i>Caryophyllia smithii</i> )
	Tow ID: T1 Image number: T1_15 Latitude: 50.24534465 Longitude: -4.501146 Sediment: Mixed sediment
	Tow ID: T1 Image number: T1_19 Latitude: 50.24546443 Longitude: -4.500215137 Sediment: Mixed sediment Fauna: Polychaete worm, Hydroids

Figure 20: Station overview for Box 3 Tow 1 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna.

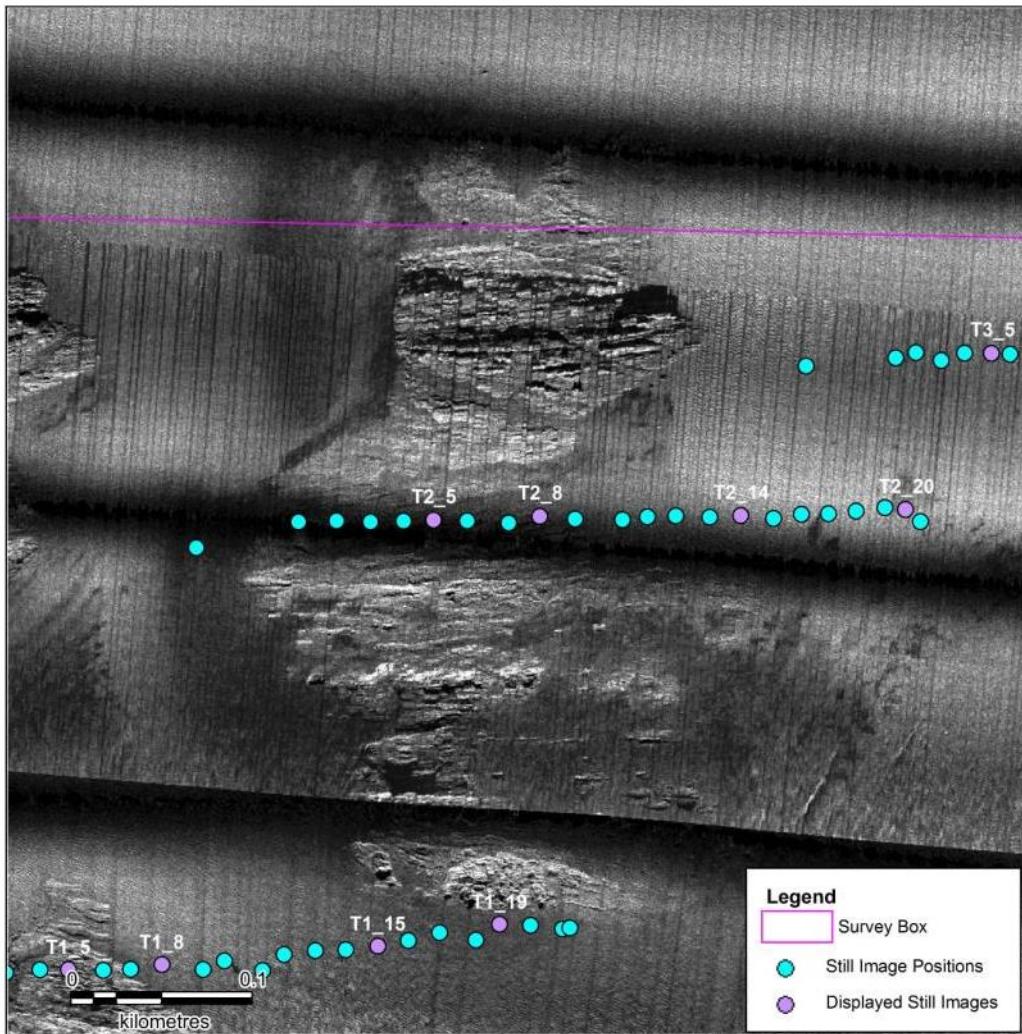


## Box 3 Tow 2

### Cornwall IFCA Eddystone Reefs DDV Survey

Site: Start Point to Plymouth Sound and Eddystone Special Area of Conservation  
Survey code: 20180508\_CIFCA\_SAC\_EDD\_DDV

Created by: KO 16/08/2018



	Tow ID: T2 Image number: T2_5 Latitude: 50.24744469 Longitude: -4.500784487 Sediment: Reef Fauna: Pink sea fan ( <i>Eunicella verrucosa</i> ) Cup coral ( <i>Caryophyllia smithii</i> ) Hydroids, Branching sponges
	Tow ID: T2 Image number: T2_8 Latitude: 50.247446 Longitude: -4.499968168 Sediment: Reef Fauna: Starfish, Hydroids, Cup coral ( <i>Caryophyllia smithii</i> )
	Tow ID: T2 Image number: T2_14 Latitude: 50.24749707 Longitude: -4.498424578 Sediment: Mixed sediment Fauna: Hydroids, Ross coral ( <i>Pentapora fascialis</i> )
	Tow ID: T2 Image number: T2_20 Latitude: 50.24754298 Longitude: -4.497158967 Sediment: Mixed sediment Fauna: Hydroids

Figure 21: Station overview for Box 3 Tow 2 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on 08/05/2018 and other tows carried out on the 08/05/2018 are also visible in the overview box.

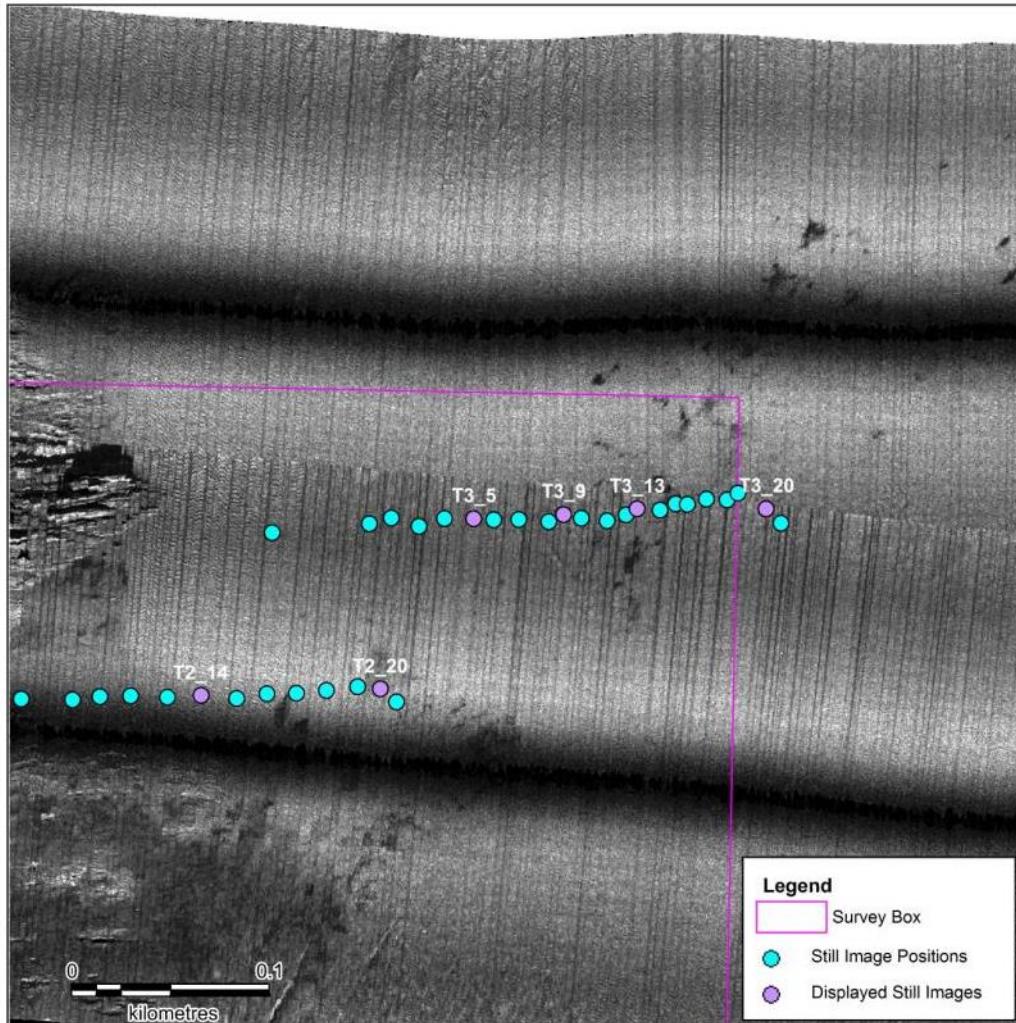


## Box 3 Tow 3

### Cornwall IFCA Eddystone Reefs DDV Survey

Site: Start Point to Plymouth Sound and Eddystone Special Area of Conservation  
Survey code: 20180508\_CIFCA\_SAC\_EDD\_DDV

Created by: KO 17/08/2018



	<p>Tow ID: T3 Image number: T3_5 Latitude: 50.2483196 Longitude: -4.496522618 Sediment: Mixed sediment  Fauna: Brittlestars, Spider crab (<i>Maja</i> spp.) and Hydroids</p>
	<p>Tow ID: T3 Image number: T3_9 Latitude: 50.24834663 Longitude: -4.495887955 Sediment: Mixed sediment  Fauna: Brittlestar and Hydroids</p>
	<p>Tow ID: T3 Image number: T3_13 Latitude: 50.24837892 Longitude: -4.495367525 Sediment: Mixed sediment  Fauna: Spiny starfish (<i>Marthasterias glacialis</i>)</p>
	<p>Tow ID: T3 Image number: T3_20 Latitude: 50.24839078 Longitude: -4.4944569  Sediment: Mixed sediment</p>

Figure 22: Station overview for Box 3 Tow 3 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on 08/05/2018 and other tows carried out on the 08/05/2018 are also visible in the overview box.



## Box 3 Tow 4

### Cornwall IFCA Eddystone Reefs DDV Survey

Site: Start Point to Plymouth Sound and Eddystone Special Area of Conservation  
 Survey code: 20180620\_CIFCA\_SAC\_EDD\_DDV

Created by: KO 17/08/2018

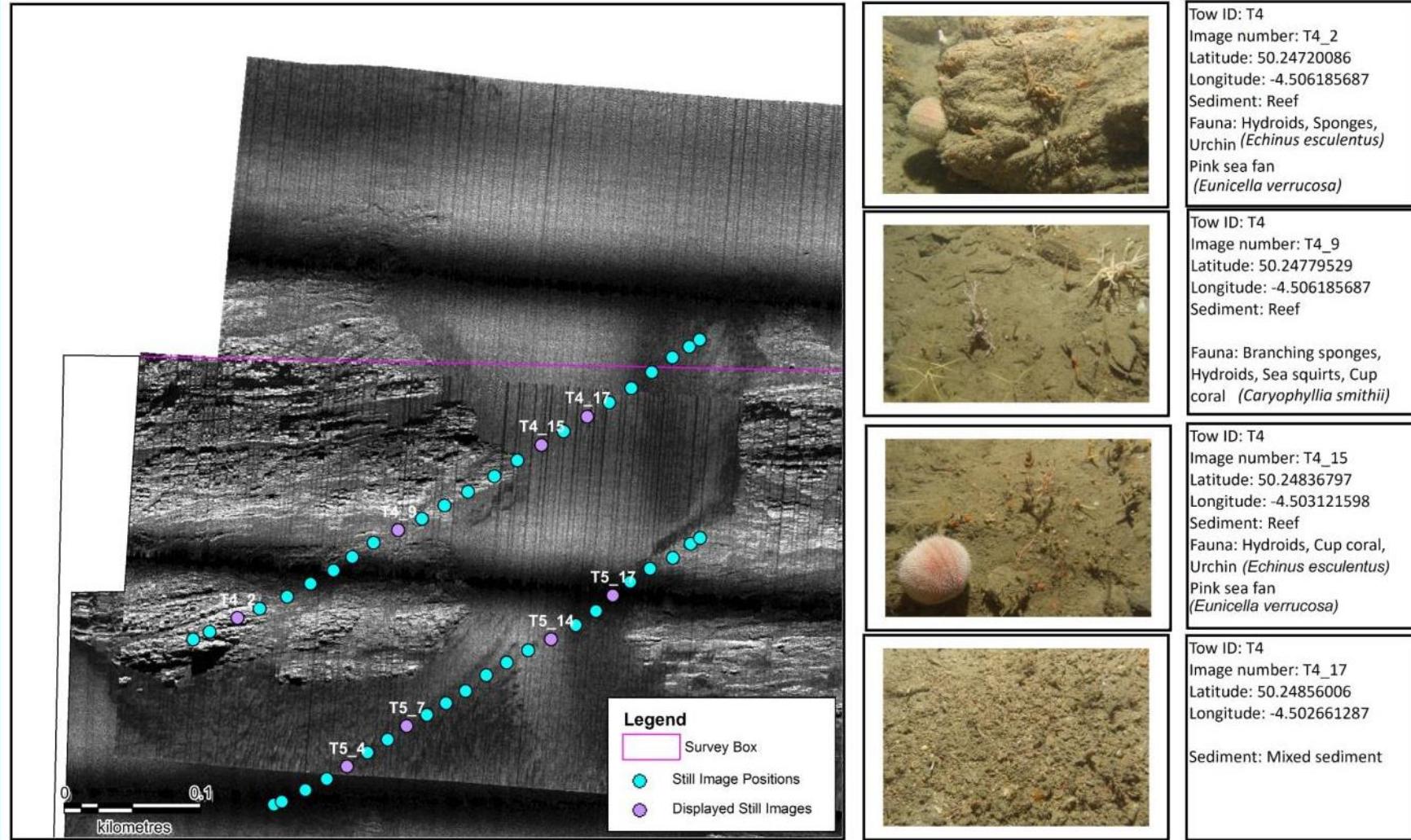


Figure 23: Station overview for Box 3 Tow 4 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on 20/06/2018 and other tows carried out on the 20/06/2018 are also visible in the overview box.

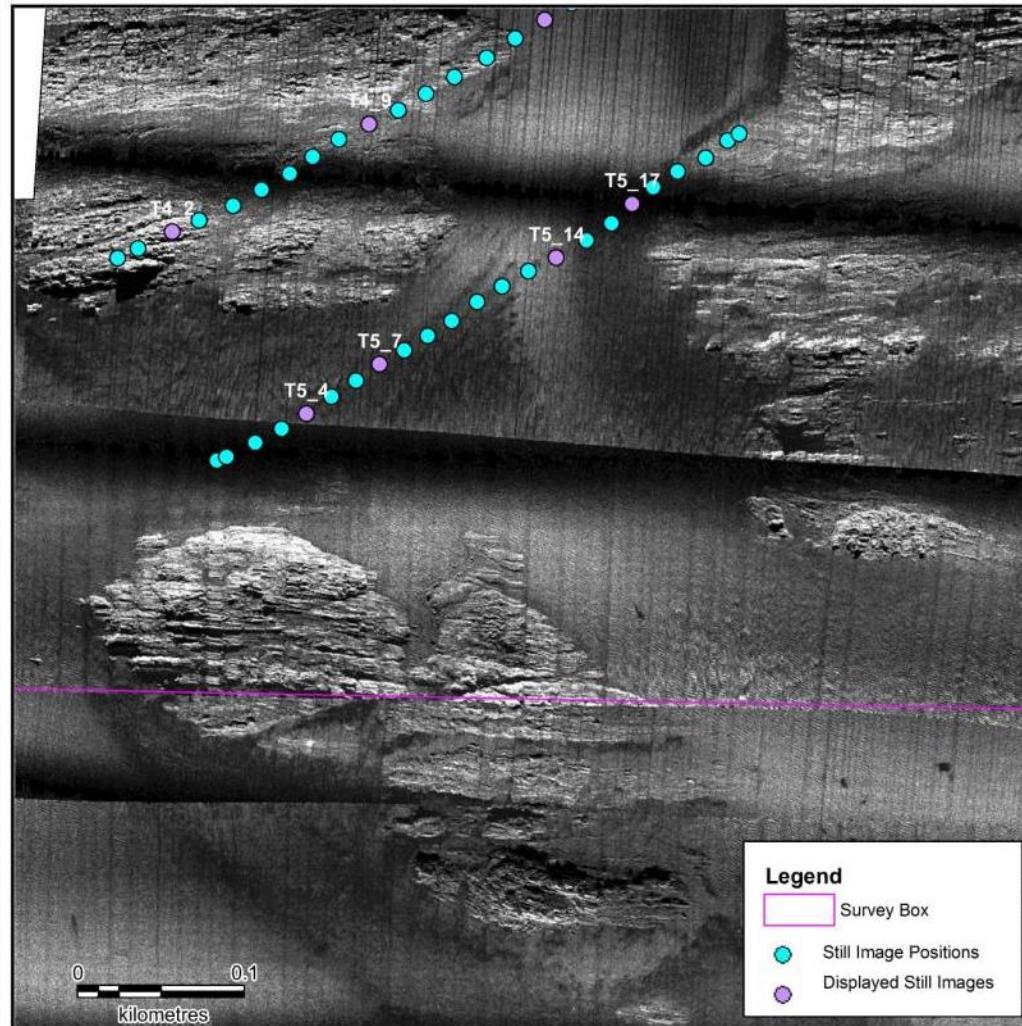


## Box 3 Tow 5

### Cornwall IFCA Eddystone Reefs DDV Survey

Site: Start Point to Plymouth Sound and Eddystone Special Area of Conservation  
Survey code: 20180620\_CIFCA\_SAC\_EDD\_DDV

Created by: KO 17/08/2018



<p>Tow ID: T5 Image number: T5_4 Latitude: 50.24624756 Longitude: -4.505038555</p> <p>Sediment: Mixed sediment</p> <p>Fauna: Fish</p>
<p>Tow ID: T5 Image number: T5_7 Latitude: 50.2461924 Longitude: -4.504438602</p> <p>Sediment: Mixed sediment</p> <p>Fauna: Goose foot starfish, Hydroids</p>
<p>Tow ID: T5 Image number: T5_14 Latitude: 50.24710408 Longitude: -4.502986288</p> <p>Sediment: Mixed sediment</p> <p>Fauna: Scallop</p>
<p>Tow ID: T5 Image number: T5_17 Latitude: 50.2473977 Longitude: -4.502365487</p> <p>Sediment: Mixed sediment</p>

Figure 24: Station overview for Box 3 Tow 5 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna. Tow was carried out on 20/06/2018 and other tows carried out on the 20/06/2018 are also visible in the overview box.



## Box 3 Tow 6

### Cornwall IFCA Eddystone Reefs DDV Survey

Site: Start Point to Plymouth Sound and Eddystone Special Area of Conservation  
Survey code: 20180620\_CIFCA\_SAC\_EDD\_DDV

Created by: KO 17/08/2018

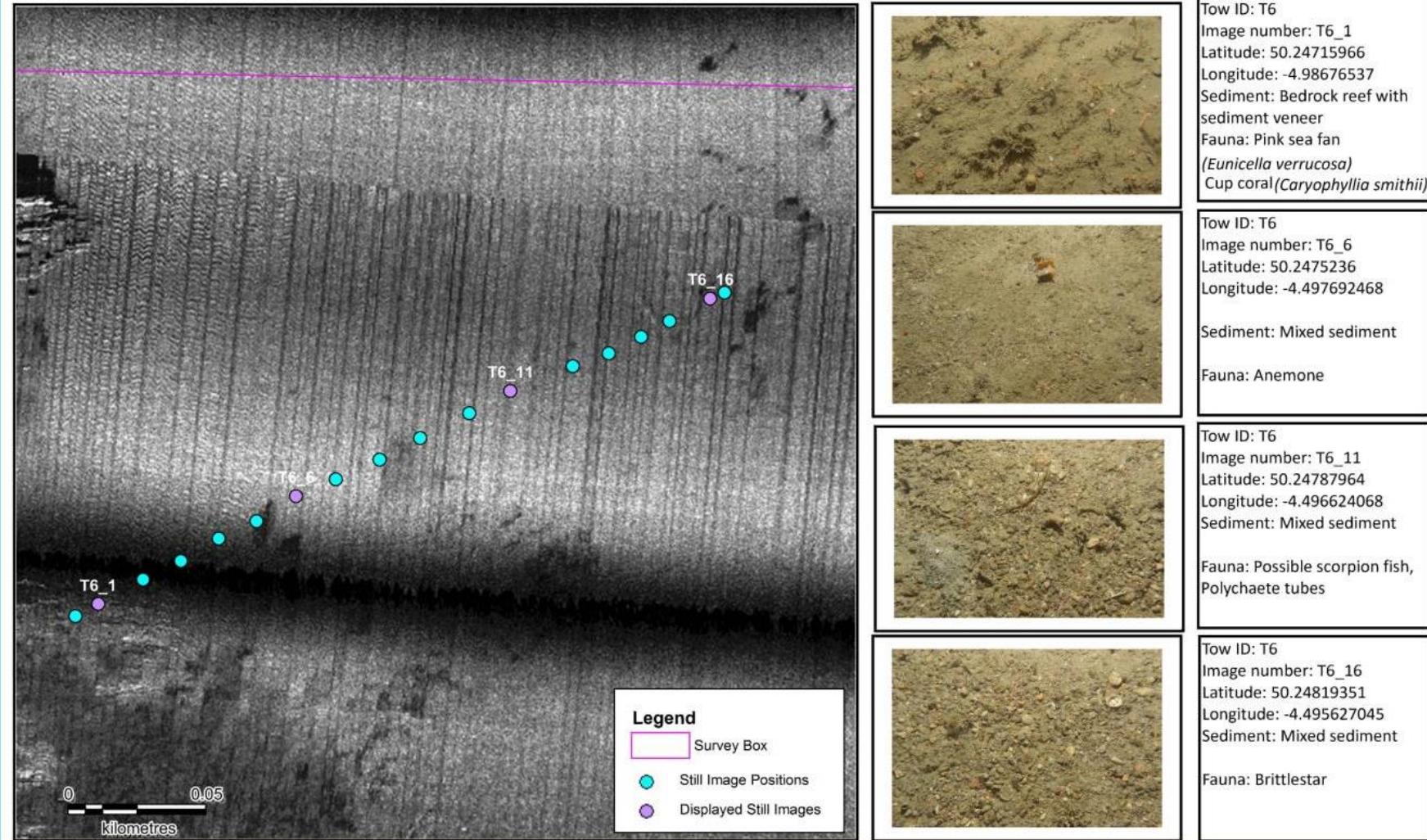


Figure 25: Station overview for Box 3 Tow 6 from the Cornwall IFCA Eddystone Reefs Project 2018 displaying still image locations overlaid on to side-scan sonar mosaic with descriptions of the habitat and fauna.

#### 4 Discussion

Cornwall IFCA has been collecting data as part of the Eddystone reefs project since 2014 and the data collected in 2018 will be added to the database of images for this survey area to enable a comparison of the seabed community composition to be analysed.

##### **Box 1**

All six of the tows in Box 1 covered area of mixed sediment, with pebbles and scattered shells.

##### **Box 2**

The sediment in Box 2 appeared to be coarser than in Box 1, with more pebbles covering the sediment and the tows also included areas of reef. Four of the tows covered mixed sediment with pebbles and scattered shells. Tow 3 covered reef with associated fauna and mixed sediment. Tow 4 began on mixed sediment before transitioning to reef with associated fauna for the latter part of the tow.

##### **Box 3**

Four of the tows in Box 3 covered areas of reef with associated fauna and areas of mixed sediment, with the reef in the earlier part of the tows. Tow 2 followed a very similar line to a tow on 18/06/2016. Tow 3 and Tow 5 covered areas of mixed sediment. There were fishing vessels scallop dredging within the vicinity of Tow 5 and this tow may have been through one of their recent tows.

Future surveys will continue to use the same methodology and will provide further insight to the observed habitats and species within the survey boxes. The data will be used with advanced statistical analysis to describe any identified changes in seabed community composition between areas that are closed to bottom towed fishing gear and areas that are open over future years as the database increases.

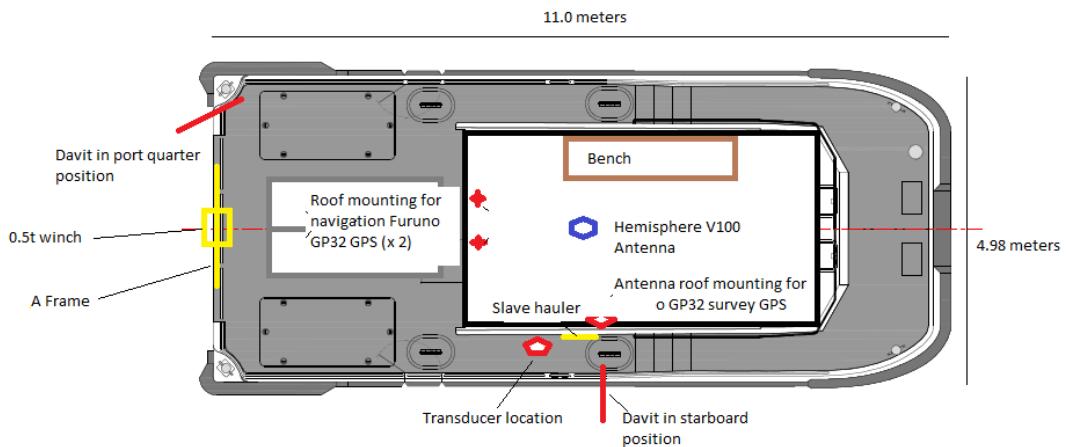
## 5 Appendices

### Annex 1 – RV Tiger Lily Vessel specification, deck plan and offsets



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
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

## Tiger Lily VI General Layout - Plan view



NMEA Device	Make/Model	Offset Name	Offset (m)		
			X (f'wd)	Y (port)	Z (+/-)
Sounder	Furuno Navnet	Transducer	7.0	4.2	-0.5
GPS	Furuno GP32	GPS 1	4.8	3.48	+2.2
GNSS	Hemisphere V100	GNSS 1	5.0	2.5	+2.35

## Annex 2 – Daily Logs

### 8<sup>th</sup> May 2018 – Eddystone DDV Survey

Daily log for the survey carried out on the 8<sup>th</sup> May 2018

**Survey code:** 20180508\_CIFCA\_SAC\_EDD\_DDV

**Staff:** Colin Trundle (Principal Scientific Officer, Cornwall IFCA), Stephanie Sturgeon (Scientific Officer, Cornwall IFCA), Kate Owen (Scientific Officer, Cornwall IFCA) and David Raymond (skipper)

**Vessel:** Tiger Lily VI

All times are in UTC.

Time	Activity
05:20	Boat departs Mylor
	Equipment set up on the journey out
07:34	SOL Box 1 Tow 1
08:01	EOL Box 1 Tow 1
08:22	SOL Box 1 Tow 2
08:44	EOL Box 1 Tow 2
08:54	SOL Box 1 Tow 3
09:16	EOL Box 1 Tow 3
09:36	SOL Box 2 Tow 1
09:58	EOL Box 2 Tow 1
10:07	SOL Box 2 Tow 2
10:31	EOL Box 2 Tow 2
10:43	SOL Box 2 Tow 3
11:03	EOL Box 2 Tow 3
11:43	SOL Box 3 Tow 1
12:06	EOL Box 3 Tow 1
12:40	SOL Box 3 Tow 2
13:04	EOL Box 3 Tow 2
13:10	SOL Box 2 Tow 3
13:34	EOL Box 3 Tow 3
13:47	CTD deployed (File Box3_Tow3)
14:00	Left the Eddystone and headed back to Mylor
16:00	Tiger Lily alongside at Mylor

20<sup>th</sup> June 2018 – Eddystone DDV Survey

Daily log for the survey carried out on the 20<sup>th</sup> June 2018

**Survey code:** 20180620\_CIFCA\_SAC\_EDD\_DDV

**Staff:** Colin Trundle (Principal Scientific Officer and Skipper, Cornwall IFCA), Stephanie Sturgeon (Scientific Officer, Cornwall IFCA) and Kate Owen (Scientific Officer, Cornwall IFCA)

**Vessel:** Tiger Lily VI

All times are in UTC.

Time	Activity
05:45	Tiger Lily departs Mylor for the Eddystone
07:30	Arrived at the Eddystone
08:01	Box 1 Tow 4 SOL
08:23	Box 1 Tow 4 EOL
08:35	Box 1 Tow 5 SOL
08:57	Box 1 Tow 5 EOL
09:12	Box 1 Tow 6 SOL
09:36	Box 1 Tow 6 EOL
10:00	Box 2 Tow 4 SOL
10:21	Box 2 Tow 4 EOL
10:36	Box 2 Tow 5 SOL
10:58	Box 2 Tow 5 EOL
11:15	Box 2 Tow 6 SOL
11:37	Box 2 Tow 6 EOL
12:21	Box 3 Tow 4 SOL
12:43	Box 3 Tow 4 EOL
12:54	Box 3 Tow 5 SOL
13:15	Box 3 Tow 5 EOL
13:32	Box 3 Tow 6 SOL
13:48	Box 3 Tow 6 EOL
	Tow ended slightly early due to scalloper heading towards the vessel and not answering the skipper's radio calls
14:00	SeaSpyder recovered from the water
16:30	Tiger Lily alongside at Mylor

## Annex 3 – Video position data from the Eddystone Reef Project in 2018

Cornwall IFCA		Video Positioning Summary											
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report								
Vessel		Tiger Lily	Sampling position		Starboard davit								
Sample type	Box	Image_ID	Date	Time SOL	Time EOL	SOL Latitude (decimal degrees)	SOL Longitude (decimal degrees)	EOL Latitude (decimal degrees)	EOL Longitude (decimal degrees)	Video length	Number of stills pre QC	Number of still post QC	
Camera	1 T1	2018_128_07_34_31_B1_T1.avi	08/05/2018	07:34:33	08:01:23	50.21656523	-4.333983522	50.21647965	-4.330391448	26:51	20	20	
Camera	1 T2	2018_128_08_22_18_B1_T2.avi	08/05/2018	08:22:19	08:44:57	50.21515452	-4.337991732	50.21506777	-4.334538688	22:38	22	20	
Camera	1 T3	2018_128_08_54_27_B1_T3.avi	08/05/2018	08:54:29	09:16:14	50.21767875	-4.336386577	50.21751652	-4.333000545	21:46	20	20	
Camera	1 T4	2018_171_08_02_14_B1_T4.avi	20/06/2018	08:01:59	08:23:45	50.21619118	-4.337138295	50.21769281	-4.33408557	21:46	21	20	
Camera	1 T5	2018_171_08_35_24_B1_T5.avi	20/06/2018	08:35:10	08:57:08	50.21567594	-4.331096337	50.21695409	-4.32638371	21:59	22	22	
Camera	1 T6	2018_171_09_12_31_B1_T6.avi	20/06/2018	09:12:16	09:36:10	50.21571313	-4.33595182	50.2167213	-4.32956887	23:54	24	24	
Camera	2 T1	2018_128_09_40_16_B2_T1.avi	08/05/2018	09:40:18	09:58:10	50.22615115	-4.374011442	50.22571089	-4.37177749	17:52	21	20	
Camera	2 T2	2018_128_10_07_55_B2_T2.avi	08/05/2018	10:07:56	10:31:19	50.22465791	-4.36632987	50.22339333	-4.36160349	23:23	22	20	
Camera	2 T3	2018_128_10_43_24_B2_T3.avi	08/05/2018	10:43:25	11:03:36	50.22445902	-4.370061672	50.22520498	-4.367902738	20:11	22	20	
Camera	2 T4	2018_171_10_00_18_B2_T4.avi	20/06/2018	10:00:04	10:21:13	50.2232045	-4.371107033	50.22382558	-4.365573052	21:09	25	21	
Camera	2 T5	2018_171_10_36_42_B2_T5.avi	20/06/2018	10:36:27	10:58:21	50.22564141	-4.370072838	50.22622799	-4.363521493	21:54	22	22	
Camera	2 T6	2018_171_11_15_45_B2_T6.avi	20/06/2018	11:15:31	11:37:46	50.22518335	-4.365407363	50.22564566	-4.359149072	22:16	22	22	
Camera	3 T1	2018_128_11_43_01_B3_T1.avi	08/05/2018	11:43:03	12:06:46	50.24513822	-4.505382982	50.24545304	-4.499671812	23:43	23	21	
Camera	3 T2	2018_128_12_40_55_B3_T2.avi	08/05/2018	12:40:57	13:04:42	50.24728546	-4.502601423	50.24748472	-4.497041555	23:46	22	20	
Camera	3 T3	2018_128_13_10_25_B3_T3.avi	08/05/2018	13:10:27	13:34:21	50.24823884	-4.497944688	50.24832827	-4.49435025	23:53	20	20	
Camera	3 T4	2018_171_12_21_35_B3_T4.avi	20/06/2018	12:21:21	12:43:26	50.24705532	-4.506633895	50.24907484	-4.501529912	22:05	22	22	
Camera	3 T5	2018_171_12_54_52_B3_T5.avi	20/06/2018	12:54:37	13:15:34	50.24598859	-4.505776433	50.2477834	-4.501486412	20:57	23	21	
Camera	3 T6	2018_171_13_33_03_B3_T6.avi	20/06/2018	13:32:48	13:48:51	50.24711934	-4.49879087	50.24821445	-4.495554202	16:03	16	16	

## Annex 4 – Still image position data from the Eddystone Reef Project in 2018

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX1_T1	Edd_Box1_T120180508_07_40_21_0001.JPG		08/05/2018	07:40	50.21647859	-4.33333833	52	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_41_39_0002.JPG		08/05/2018	07:41	50.2165013	-4.333170585	53.1	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_42_40_0003.JPG		08/05/2018	07:42	50.21650876	-4.333037612	53.1	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_43_40_0004.JPG		08/05/2018	07:43	50.21647109	-4.332915338	52.8	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_44_39_0005.JPG		08/05/2018	07:44	50.21647277	-4.332782135	52.1	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_45_39_0006.JPG		08/05/2018	07:45	50.21645218	-4.33264914	52.7	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_46_40_0007.JPG		08/05/2018	07:46	50.21646214	-4.332497457	51.8	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_47_39_0008.JPG		08/05/2018	07:47	50.21644819	-4.332347915	52.6	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_48_39_0009.JPG		08/05/2018	07:48	50.21645396	-4.332192633	53.5	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_49_39_0010.JPG		08/05/2018	07:49	50.21643703	-4.332062187	53.2	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_50_48_0011.JPG		08/05/2018	07:50	50.21647716	-4.331916533	53.1	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_51_41_0012.JPG		08/05/2018	07:51	50.21648263	-4.331800098	52.9	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_52_41_0013.JPG		08/05/2018	07:52	50.21646904	-4.331654095	52.7	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_53_38_0014.JPG		08/05/2018	07:53	50.21641247	-4.331542145	52.4	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_54_39_0015.JPG		08/05/2018	07:54	50.21640422	-4.331340058	51.6	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_55_39_0016.JPG		08/05/2018	07:55	50.21640911	-4.3312168	50.8	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_56_39_0017.JPG		08/05/2018	07:56	50.21645017	-4.331091952	51	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_57_39_0018.JPG		08/05/2018	07:57	50.21641756	-4.330950033	51.4	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_58_39_0019.JPG		08/05/2018	07:58	50.21642508	-4.330804593	51.3	Mixed sediment			
Camera	BOX1_T1	Edd_Box1_T120180508_07_59_40_0020.JPG		08/05/2018	07:59	50.21642523	-4.330630715	53.2	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_25_34_0021.JPG		08/05/2018	08:25	50.21518144	-4.33757704	53.1	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_26_39_0022.JPG		08/05/2018	08:26	50.21521535	-4.337416157	53.1	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_27_37_0023.JPG		08/05/2018	08:27	50.21521931	-4.337285252	53.4	Mixed sediment			

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX1_T2	Edd_Box1_T220180508_08_28_37_0024.JPG		08/05/2018	08:28	50.21518286	-4.337132223	53.4	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_29_36_0025.JPG		08/05/2018	08:29	50.21522767	-4.33696485	53.4	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_30_35_0026.JPG		08/05/2018	08:30	50.21518598	-4.336793748	53.5	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_31_35_0027.JPG		08/05/2018	08:31	50.21520826	-4.336610855	53.5	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_32_36_0028.JPG		08/05/2018	08:32	50.21519204	-4.336450095	53.6	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_33_39_0030.JPG		08/05/2018	08:33	50.21516913	-4.336274055	53.7	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_34_36_0031.JPG		08/05/2018	08:34	50.21514526	-4.336130628	53.5	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_35_36_0032.JPG		08/05/2018	08:35	50.21515983	-4.335975767	53.6	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_36_37_0034.JPG		08/05/2018	08:36	50.21514747	-4.335806295	53.7	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_37_36_0035.JPG		08/05/2018	08:37	50.2151522	-4.335659243	54	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_38_41_0036.JPG		08/05/2018	08:38	50.2151393	-4.33550385	54.7	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_39_39_0037.JPG		08/05/2018	08:39	50.21516055	-4.335388248	54	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_40_36_0038.JPG		08/05/2018	08:40	50.21516313	-4.33523329	53.8	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_41_36_0039.JPG		08/05/2018	08:41	50.21514966	-4.335067615	53.8	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_42_38_0040.JPG		08/05/2018	08:42	50.21513678	-4.334909322	53.8	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_43_36_0041.JPG		08/05/2018	08:43	50.21511436	-4.334771572	53.7	Mixed sediment			
Camera	BOX1_T2	Edd_Box1_T220180508_08_44_36_0042.JPG		08/05/2018	08:44	50.21509054	-4.334607813	53.7	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_08_56_07_0043.JPG		08/05/2018	08:56	50.21766157	-4.3360921	54.3	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_08_57_08_0044.JPG		08/05/2018	08:57	50.21764216	-4.335930398	54.4	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_08_58_06_0045.JPG		08/05/2018	08:58	50.21767508	-4.335802203	54.4	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_08_59_05_0046.JPG		08/05/2018	08:59	50.21764313	-4.33565939	54.7	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_09_00_05_0047.JPG		08/05/2018	09:00	50.21768099	-4.335536512	54.7	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_09_01_06_0048.JPG		08/05/2018	09:01	50.21766306	-4.335373842	54.5	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_09_02_04_0049.JPG		08/05/2018	09:02	50.21764868	-4.335218758	54.5	Mixed sediment			

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX1_T3	Edd_Box1_T320180508_09_03_04_0050.JPG		08/05/2018	09:03	50.21765897	-4.335077328	54.6	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_09_04_06_0051.JPG		08/05/2018	09:04	50.21763684	-4.33490926	54.7	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_09_05_05_0052.JPG		08/05/2018	09:05	50.21764829	-4.334737057	54.8	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_09_06_05_0053.JPG		08/05/2018	09:06	50.21762595	-4.334569775	54.6	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_09_07_04_0054.JPG		08/05/2018	09:07	50.21764349	-4.334398407	54.7	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_09_08_05_0055.JPG		08/05/2018	09:08	50.2176277	-4.334220615	54.7	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_09_09_05_0056.JPG		08/05/2018	09:09	50.21765352	-4.334037805	54.7	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_09_10_05_0057.JPG		08/05/2018	09:10	50.21763697	-4.333862803	54.6	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_09_11_05_0058.JPG		08/05/2018	09:11	50.21766323	-4.333698427	54.6	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_09_12_04_0059.JPG		08/05/2018	09:12	50.21764596	-4.333529547	54.6	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_09_13_04_0060.JPG		08/05/2018	09:13	50.2176314	-4.33336044	54.7	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_09_14_04_0061.JPG		08/05/2018	09:14	50.21765795	-4.333210365	54.6	Mixed sediment			
Camera	BOX1_T3	Edd_Box1_T320180508_09_15_04_0062.JPG		08/05/2018	09:15	50.21763397	-4.333052258	54.7	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_02_41_0001.JPG		20/06/2018	08:02	50.2162519	-4.337060423	53.2	Coarse sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_03_44_0002.JPG		20/06/2018	08:03	50.21631819	-4.336907417	53.2	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_04_50_0003.JPG		20/06/2018	08:04	50.21641135	-4.336753622	53.4	Coarse sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_05_45_0004.JPG		20/06/2018	08:05	50.21647295	-4.336638753	53.4	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_06_47_0005.JPG		20/06/2018	08:06	50.21654105	-4.336512672	53.5	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_07_54_0007.JPG		20/06/2018	08:07	50.21660985	-4.336355917	53.6	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_08_48_0008.JPG		20/06/2018	08:08	50.21666497	-4.336235333	54	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_09_46_0009.JPG		20/06/2018	08:09	50.2167306	-4.336132002	53.8	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_10_53_0010.JPG		20/06/2018	08:10	50.21679753	-4.335965355	53.8	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_11_48_0011.JPG		20/06/2018	08:11	50.2168529	-4.335828308	53.8	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_12_47_0012.JPG		20/06/2018	08:12	50.21691945	-4.335704775	53.9	Mixed sediment			

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_13_47_0013.JPG		20/06/2018	08:13	50.2169835	-4.335537313	54	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_14_46_0014.JPG		20/06/2018	08:14	50.21704554	-4.335411245	54.1	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_15_46_0015.JPG		20/06/2018	08:15	50.21710108	-4.335274737	54.3	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_16_46_0016.JPG		20/06/2018	08:16	50.21716796	-4.335119185	54	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_17_45_0017.JPG		20/06/2018	08:17	50.21723972	-4.33497815	54.2	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_18_46_0018.JPG		20/06/2018	08:18	50.21731085	-4.334849722	54.2	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_19_47_0019.JPG		20/06/2018	08:19	50.21738008	-4.334712863	54	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_20_45_0020.JPG		20/06/2018	08:20	50.21746151	-4.334554073	54.2	Mixed sediment			
Camera	BOX1_T4	CIFCA_SAC_Edd_B1_T420180620_08_22_44_0021.JPG		20/06/2018	08:22	50.21761466	-4.334235915	54	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_35_35_0022.JPG		20/06/2018	08:35	50.21570922	-4.331012158	54.7	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_36_43_0023.JPG		20/06/2018	08:36	50.21578538	-4.33077675	54	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_37_44_0024.JPG		20/06/2018	08:37	50.21585465	-4.330577225	54.7	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_38_46_0025.JPG		20/06/2018	08:38	50.2159283	-4.330373102	54.6	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_39_47_0026.JPG		20/06/2018	08:39	50.21600027	-4.330159363	54.7	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_40_44_0027.JPG		20/06/2018	08:40	50.21605787	-4.329924662	54.7	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_41_45_0028.JPG		20/06/2018	08:41	50.21612223	-4.329673623	54.6	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_43_11_0029.JPG		20/06/2018	08:43	50.21621316	-4.32934184	55	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_43_47_0030.JPG		20/06/2018	08:43	50.21625465	-4.329211367	54.8	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_44_45_0031.JPG		20/06/2018	08:44	50.21632728	-4.329012405	55.3	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_45_45_0032.JPG		20/06/2018	08:45	50.21639277	-4.328811785	56.1	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_46_45_0033.JPG		20/06/2018	08:46	50.21645317	-4.328611818	56.5	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_47_50_0034.JPG		20/06/2018	08:47	50.216509	-4.328367337	56.8	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_48_48_0035.JPG		20/06/2018	08:48	50.2165508	-4.328155428	56.6	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_49_46_0036.JPG		20/06/2018	08:49	50.21659819	-4.327933512	57.2	Mixed sediment			

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_50_44_0037.JPG		20/06/2018	08:50	50.21664299	-4.327723623	57.3	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_51_56_0038.JPG		20/06/2018	08:51	50.21669885	-4.327463735	57.4	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_52_46_0039.JPG		20/06/2018	08:52	50.21674039	-4.327281008	57.6	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_53_48_0040.JPG		20/06/2018	08:53	50.21679885	-4.327064252	57.8	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_54_53_0041.JPG		20/06/2018	08:54	50.21685438	-4.326851735	57.4	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_55_50_0042.JPG		20/06/2018	08:55	50.21689917	-4.326657285	57.5	Mixed sediment			
Camera	BOX1_T5	CIFCA_SAC_Edd_B1_T520180620_08_56_45_0043.JPG		20/06/2018	08:56	50.21693951	-4.326468802	57.6	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_12_45_0044.JPG		20/06/2018	09:12	50.21573439	-4.335815898	54.3	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_13_51_0045.JPG		20/06/2018	09:13	50.2157831	-4.335536443	53.9	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_14_50_0046.JPG		20/06/2018	09:14	50.21581694	-4.335284338	54.2	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_15_50_0047.JPG		20/06/2018	09:15	50.21584846	-4.335023643	54	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_16_50_0048.JPG		20/06/2018	09:16	50.21588635	-4.33475291	54.2	Coarse sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_17_49_0049.JPG		20/06/2018	09:17	50.21592645	-4.33449953	54.2	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_18_50_0050.JPG		20/06/2018	09:18	50.21597361	-4.334246587	54.3	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_19_50_0051.JPG		20/06/2018	09:19	50.21600918	-4.33398739	54.5	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_20_51_0052.JPG		20/06/2018	09:20	50.21604628	-4.333721822	54.8	Coarse sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_21_50_0053.JPG		20/06/2018	09:21	50.21609593	-4.333466188	54.5	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_22_56_0054.JPG		20/06/2018	09:22	50.21615052	-4.333187202	54.4	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_23_52_0055.JPG		20/06/2018	09:23	50.21619406	-4.332944972	54.4	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_24_51_0056.JPG		20/06/2018	09:24	50.21624664	-4.332690902	54.7	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_25_59_0057.JPG		20/06/2018	09:25	50.21629775	-4.3323748	54.9	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_26_50_0058.JPG		20/06/2018	09:26	50.21633373	-4.332124365	54.9	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_27_49_0059.JPG		20/06/2018	09:27	50.21638427	-4.331862712	54.9	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_28_50_0060.JPG		20/06/2018	09:28	50.21641836	-4.331585775	54.8	Mixed sediment			

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_29_51_0061.JPG		20/06/2018	09:29	50.2164684	-4.33131241	55.2	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_30_51_0062.JPG		20/06/2018	09:30	50.2165097	-4.331052378	55.3	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_31_50_0063.JPG		20/06/2018	09:31	50.21655754	-4.330781912	55.2	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_32_51_0064.JPG		20/06/2018	09:32	50.21660015	-4.330513777	55.6	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_33_50_0065.JPG		20/06/2018	09:33	50.21664174	-4.330230025	55.4	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_34_51_0066.JPG		20/06/2018	09:34	50.21668038	-4.329950768	55.7	Mixed sediment			
Camera	BOX1_T6	CIFCA_SAC_Edd_B1_T620180620_09_35_50_0067.JPG		20/06/2018	09:35	50.21671153	-4.329666652	55.9	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_38_40_0063.JPG		08/05/2018	09:38	50.22615564	-4.374153397	52.5	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_39_50_0064.JPG		08/05/2018	09:39	50.22616302	-4.374069825	52.2	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_40_51_0065.JPG		08/05/2018	09:40	50.2261457	-4.373985927	52.2	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_41_49_0066.JPG		08/05/2018	09:41	50.22613707	-4.37390093	51.7	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_42_49_0067.JPG		08/05/2018	09:42	50.22614038	-4.37382694	51.9	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_43_53_0068.JPG		08/05/2018	09:43	50.22612623	-4.373706075	52.5	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_44_51_0069.JPG		08/05/2018	09:44	50.22615007	-4.373634852	52.3	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_45_51_0071.JPG		08/05/2018	09:45	50.22612691	-4.373538847	52	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_46_51_0072.JPG		08/05/2018	09:46	50.22609598	-4.37340172	52.3	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_47_50_0073.JPG		08/05/2018	09:47	50.22610112	-4.373325357	52.9	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_48_51_0074.JPG		08/05/2018	09:48	50.22609728	-4.373224692	51.6	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_49_50_0075.JPG		08/05/2018	09:49	50.22613235	-4.373190868	51.8	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_50_51_0076.JPG		08/05/2018	09:50	50.22609864	-4.372995608	52.9	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_51_51_0077.JPG		08/05/2018	09:51	50.22601494	-4.372789305	53	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_52_50_0078.JPG		08/05/2018	09:52	50.22596499	-4.372645477	52.8	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_53_50_0079.JPG		08/05/2018	09:53	50.22593173	-4.372481313	53	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_54_51_0080.JPG		08/05/2018	09:54	50.22595342	-4.372407133	52.8	Mixed sediment			

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX2_T1	Edd_Box2_T120180508_09_55_50_0081.JPG		08/05/2018	09:55	50.22586163	-4.372182808	52.8	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_56_50_0082.JPG		08/05/2018	09:56	50.22579419	-4.372027355	52.9	Mixed sediment			
Camera	BOX2_T1	Edd_Box2_T120180508_09_57_51_0083.JPG		08/05/2018	09:57	50.22571382	-4.371822913	52.7	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_09_44_0084.JPG		08/05/2018	10:09	50.22454443	-4.366012362	54.2	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_11_00_0085.JPG		08/05/2018	10:11	50.22448131	-4.365806875	54.3	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_12_01_0087.JPG		08/05/2018	10:12	50.22448177	-4.365697183	54.3	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_13_01_0088.JPG		08/05/2018	10:13	50.22445621	-4.365547432	54.2	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_14_23_0089.JPG		08/05/2018	10:14	50.22437113	-4.365304317	54.4	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_15_00_0090.JPG		08/05/2018	10:15	50.22436704	-4.365197145	54.4	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_16_06_0092.JPG		08/05/2018	10:16	50.22430418	-4.364993062	54.8	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_17_01_0093.JPG		08/05/2018	10:17	50.22430677	-4.364852477	54.9	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_18_01_0094.JPG		08/05/2018	10:18	50.2242434	-4.364625002	54.9	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_19_01_0095.JPG		08/05/2018	10:19	50.2241105	-4.364417955	55.4	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_20_01_0096.JPG		08/05/2018	10:20	50.22401977	-4.364221752	55.8	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_21_01_0097.JPG		08/05/2018	10:21	50.2239684	-4.363997153	56	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_24_01_0098.JPG		08/05/2018	10:24	50.2237851	-4.363320112	56.4	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_25_02_0099.JPG		08/05/2018	10:25	50.2237004	-4.36309067	57	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_26_06_0100.JPG		08/05/2018	10:26	50.22368793	-4.362852238	56.9	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_27_00_0101.JPG		08/05/2018	10:27	50.22360742	-4.362645957	56.9	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_28_01_0102.JPG		08/05/2018	10:28	50.22352759	-4.362402032	57.2	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_29_02_0103.JPG		08/05/2018	10:29	50.22347756	-4.362151417	57.3	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_30_01_0104.JPG		08/05/2018	10:30	50.22341518	-4.361903435	57.8	Mixed sediment			
Camera	BOX2_T2	Edd_Box2_T220180508_10_31_01_0105.JPG		08/05/2018	10:31	50.22339308	-4.361657128	57.9	Mixed sediment			
Camera	BOX2_T3	Edd_Box2_T320180508_10_44_11_0106.JPG		08/05/2018	10:44	50.22450659	-4.369855405	52	Reef			

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX2_T3	Edd_Box2_T320180508_10_45_13_0107.JPG		08/05/2018	10:45	50.22453144	-4.369710907	53.1	Mixed sediment			
Camera	BOX2_T3	Edd_Box2_T320180508_10_46_10_0108.JPG		08/05/2018	10:46	50.22454124	-4.36957952	53.1	Mixed sediment			
Camera	BOX2_T3	Edd_Box2_T320180508_10_47_14_0110.JPG		08/05/2018	10:47	50.224483	-4.369529027	52.8	Mixed sediment			
Camera	BOX2_T3	Edd_Box2_T320180508_10_48_13_0111.JPG		08/05/2018	10:48	50.22446222	-4.369514373	52.1	Reef			
Camera	BOX2_T3	Edd_Box2_T320180508_10_49_15_0112.JPG		08/05/2018	10:49	50.22450739	-4.369398105	52.7	Reef			
Camera	BOX2_T3	Edd_Box2_T320180508_10_50_16_0114.JPG		08/05/2018	10:50	50.22452549	-4.369193768	51.8	Mixed sediment			
Camera	BOX2_T3	Edd_Box2_T320180508_10_51_14_0115.JPG		08/05/2018	10:51	50.22454232	-4.369055628	52.6	Reef			
Camera	BOX2_T3	Edd_Box2_T320180508_10_52_14_0116.JPG		08/05/2018	10:52	50.22465705	-4.368960058	53.5	Mixed sediment			
Camera	BOX2_T3	Edd_Box2_T320180508_10_53_13_0117.JPG		08/05/2018	10:53	50.22470884	-4.368864295	53.2	Mixed sediment			
Camera	BOX2_T3	Edd_Box2_T320180508_10_54_12_0118.JPG		08/05/2018	10:54	50.22475711	-4.368810198	53.1	Mixed sediment			
Camera	BOX2_T3	Edd_Box2_T320180508_10_55_14_0119.JPG		08/05/2018	10:55	50.22481115	-4.368742465	52.9	Mixed sediment			
Camera	BOX2_T3	Edd_Box2_T320180508_10_56_14_0120.JPG		08/05/2018	10:56	50.22485351	-4.368678017	52.7	Mixed sediment			
Camera	BOX2_T3	Edd_Box2_T320180508_10_57_13_0121.JPG		08/05/2018	10:57	50.22489611	-4.368603078	52.4	Reef			
Camera	BOX2_T3	Edd_Box2_T320180508_10_58_14_0122.JPG		08/05/2018	10:58	50.22495769	-4.368505953	51.6	Reef			
Camera	BOX2_T3	Edd_Box2_T320180508_10_59_14_0123.JPG		08/05/2018	10:59	50.22500715	-4.368338748	50.8	Reef			
Camera	BOX2_T3	Edd_Box2_T320180508_11_00_13_0124.JPG		08/05/2018	11:00	50.22505319	-4.36826939	51	Reef			
Camera	BOX2_T3	Edd_Box2_T320180508_11_01_12_0125.JPG		08/05/2018	11:01	50.22510858	-4.368176855	51.4	Reef			
Camera	BOX2_T3	Edd_Box2_T320180508_11_02_14_0126.JPG		08/05/2018	11:02	50.22515583	-4.368051445	51.3	Reef			
Camera	BOX2_T3	Edd_Box2_T320180508_11_03_15_0127.JPG		08/05/2018	11:03	50.22522011	-4.368021812	53.2	Reef			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_00_39_0068.JPG		20/06/2018	10:00	50.22323184	-4.370945662	51.6	Mixed sediment			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_01_44_0069.JPG		20/06/2018	10:01	50.22326042	-4.370643418	51.4	Mixed sediment			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_02_44_0070.JPG		20/06/2018	10:02	50.2232818	-4.370368723	51.4	Mixed sediment			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_03_45_0071.JPG		20/06/2018	10:03	50.22330787	-4.370111793	51.3	Mixed sediment			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_04_45_0072.JPG		20/06/2018	10:04	50.22333736	-4.36987085	51.2	Mixed sediment			

## 2018\_CIFCA\_SAC\_EDD\_DDV

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_05_44_0073.JPG		20/06/2018	10:05	50.2233544	-4.36961655	50.8	Mixed sediment			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_06_47_0074.JPG		20/06/2018	10:07	50.22337871	-4.36934316	50.7	Mixed sediment			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_07_44_0075.JPG		20/06/2018	10:07	50.22339452	-4.369087388	50.4	Mixed sediment			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_08_44_0076.JPG		20/06/2018	10:08	50.22342193	-4.368809225	50.6	Mixed sediment			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_09_45_0077.JPG		20/06/2018	10:09	50.22345812	-4.368537743	50.3	Mixed sediment			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_10_47_0079.JPG		20/06/2018	10:10	50.22349429	-4.368268595	50.2	Mixed sediment			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_11_48_0080.JPG		20/06/2018	10:11	50.22352558	-4.367999792	50.2	Mixed sediment			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_12_47_0081.JPG		20/06/2018	10:12	50.22355586	-4.36773374	48.8	Mixed sediment			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_13_47_0082.JPG		20/06/2018	10:13	50.22358812	-4.367473343	47.4	Reef			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_14_45_0083.JPG		20/06/2018	10:14	50.22361745	-4.367238268	49.9	Reef			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_15_49_0084.JPG		20/06/2018	10:15	50.22364058	-4.366963608	48.2	Reef			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_17_03_0086.JPG		20/06/2018	10:17	50.22368131	-4.366630212	49.2	Reef			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_17_51_0088.JPG		20/06/2018	10:17	50.22372333	-4.36642863	50.9	Reef			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_18_58_0090.JPG		20/06/2018	10:18	50.22375294	-4.366161067	52.6	Reef			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_19_45_0091.JPG		20/06/2018	10:19	50.22377066	-4.365966698	51.8	Mixed sediment			
Camera	BOX2_T4	CIFCA_SAC_Edd_B2_T420180620_10_20_47_0092.JPG		20/06/2018	10:21	50.22381255	-4.36568717	53.5	Reef			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_36_58_0093.JPG		20/06/2018	10:36	50.22565451	-4.369931557	53.8	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_38_08_0094.JPG		20/06/2018	10:38	50.22567451	-4.369585535	53.6	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_39_08_0095.JPG		20/06/2018	10:39	50.22569285	-4.369277675	53.6	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_40_08_0096.JPG		20/06/2018	10:40	50.2257134	-4.368959177	53.4	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_41_06_0097.JPG		20/06/2018	10:41	50.22574525	-4.368671637	53.4	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_42_06_0098.JPG		20/06/2018	10:42	50.22576393	-4.368350303	53.5	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_43_06_0099.JPG		20/06/2018	10:43	50.22579259	-4.368029587	53.6	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_44_08_0100.JPG		20/06/2018	10:44	50.22581019	-4.36768657	53.5	Mixed sediment			

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_45_06_0101.JPG		20/06/2018	10:45	50.22584634	-4.367403987	53.7	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_46_07_0102.JPG		20/06/2018	10:46	50.22587315	-4.367099845	53.4	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_47_06_0103.JPG		20/06/2018	10:47	50.22590314	-4.366798342	53.7	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_48_11_0104.JPG		20/06/2018	10:48	50.22593993	-4.3664914	54	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_49_08_0105.JPG		20/06/2018	10:49	50.22596141	-4.366213302	54	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_50_06_0106.JPG		20/06/2018	10:50	50.22598088	-4.365930075	54.2	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_51_08_0107.JPG		20/06/2018	10:51	50.22600554	-4.365615965	54.4	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_52_09_0108.JPG		20/06/2018	10:52	50.22603366	-4.365307157	54.6	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_53_07_0109.JPG		20/06/2018	10:53	50.22606478	-4.365021297	54.7	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_54_09_0110.JPG		20/06/2018	10:54	50.22610604	-4.364725598	54.8	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_55_10_0111.JPG		20/06/2018	10:55	50.22613212	-4.364431192	54.5	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_56_10_0112.JPG		20/06/2018	10:56	50.22616957	-4.364162833	54.6	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_57_08_0113.JPG		20/06/2018	10:57	50.22618618	-4.363882737	54.8	Mixed sediment			
Camera	BOX2_T5	CIFCA_SAC_Edd_B2_T520180620_10_57_53_0114.JPG		20/06/2018	10:57	50.22621312	-4.363659648	54.6	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_16_06_0115.JPG		20/06/2018	11:16	50.22519229	-4.365249472	54.7	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_17_15_0116.JPG		20/06/2018	11:17	50.22520304	-4.364937855	54.5	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_18_15_0117.JPG		20/06/2018	11:18	50.22521626	-4.364674542	54.7	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_19_15_0118.JPG		20/06/2018	11:19	50.22522912	-4.364409372	54.5	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_20_15_0119.JPG		20/06/2018	11:20	50.22524431	-4.364123667	54.9	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_21_14_0120.JPG		20/06/2018	11:21	50.22526745	-4.363860808	54.6	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_22_14_0121.JPG		20/06/2018	11:22	50.22529154	-4.363606633	55.1	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_23_13_0122.JPG		20/06/2018	11:23	50.22530638	-4.363370938	55	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_24_15_0123.JPG		20/06/2018	11:24	50.22532037	-4.3630977	55.4	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_25_15_0124.JPG		20/06/2018	11:25	50.22533737	-4.362814517	55.4	Mixed sediment			

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_26_15_0125.JPG		20/06/2018	11:26	50.22536355	-4.36254505	55.9	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_27_13_0126.JPG		20/06/2018	11:27	50.22538731	-4.362275262	56	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_28_15_0127.JPG		20/06/2018	11:28	50.22540313	-4.361962688	55.9	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_29_16_0128.JPG		20/06/2018	11:29	50.2254186	-4.361651903	56.1	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_30_15_0129.JPG		20/06/2018	11:30	50.22542991	-4.361354302	56.3	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_31_15_0130.JPG		20/06/2018	11:31	50.22545866	-4.361093007	56.6	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_32_15_0131.JPG		20/06/2018	11:32	50.22547089	-4.360788342	57	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_33_14_0132.JPG		20/06/2018	11:33	50.22550867	-4.360494593	57.3	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_34_14_0133.JPG		20/06/2018	11:34	50.22552362	-4.360196215	57.3	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_35_15_0134.JPG		20/06/2018	11:35	50.2255487	-4.359899883	57.5	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_36_17_0135.JPG		20/06/2018	11:36	50.22559414	-4.359589888	57.3	Mixed sediment			
Camera	BOX2_T6	CIFCA_SAC_Edd_B2_T620180620_11_37_15_0136.JPG		20/06/2018	11:37	50.22562433	-4.359310152	57.9	Mixed sediment			
Camera	BOX3_T1	Edd_Box3_T120180508_11_46_17_0128.JPG		08/05/2018	11:46	50.24515397	-4.504578005	49.6	Reef			
Camera	BOX3_T1	Edd_Box3_T120180508_11_47_31_0129.JPG		08/05/2018	11:47	50.24515949	-4.504250718	50.6	Reef			
Camera	BOX3_T1	Edd_Box3_T120180508_11_48_35_0130.JPG		08/05/2018	11:48	50.24517814	-4.50400172	52.9	Reef			
Camera	BOX3_T1	Edd_Box3_T120180508_11_49_32_0132.JPG		08/05/2018	11:49	50.24519505	-4.503736537	51.6	Mixed sediment			
Camera	BOX3_T1	Edd_Box3_T120180508_11_50_30_0133.JPG		08/05/2018	11:50	50.24519857	-4.503519245	50.3	Reef			
Camera	BOX3_T1	Edd_Box3_T120180508_11_51_30_0134.JPG		08/05/2018	11:51	50.24519934	-4.50325217	49.7	Reef			
Camera	BOX3_T1	Edd_Box3_T120180508_11_52_28_0135.JPG		08/05/2018	11:52	50.2452071	-4.503041005	52.1	Reef			
Camera	BOX3_T1	Edd_Box3_T120180508_11_53_31_0137.JPG		08/05/2018	11:53	50.24523314	-4.5028015	54.1	Reef			
Camera	BOX3_T1	Edd_Box3_T120180508_11_54_39_0138.JPG		08/05/2018	11:54	50.24521182	-4.502484173	54.4	Mixed sediment			
Camera	BOX3_T1	Edd_Box3_T120180508_11_55_30_0139.JPG		08/05/2018	11:55	50.24525652	-4.502322077	54.2	Mixed sediment			
Camera	BOX3_T1	Edd_Box3_T120180508_11_56_29_0140.JPG		08/05/2018	11:56	50.24521315	-4.502028438	54.3	Mixed sediment			
Camera	BOX3_T1	Edd_Box3_T120180508_11_57_29_0141.JPG		08/05/2018	11:57	50.24529387	-4.501865073	54.4	Mixed sediment			

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX3_T1	Edd_Box3_T120180508_11_58_28_0142.JPG		08/05/2018	11:58	50.24531718	-4.501625625	54.4	Mixed sediment			
Camera	BOX3_T1	Edd_Box3_T120180508_11_59_30_0143.JPG		08/05/2018	11:59	50.2453241	-4.501392407	54.4	Mixed sediment			
Camera	BOX3_T1	Edd_Box3_T120180508_12_00_30_0144.JPG		08/05/2018	12:00	50.24534465	-4.501146	54.3	Mixed sediment			
Camera	BOX3_T1	Edd_Box3_T120180508_12_01_30_0145.JPG		08/05/2018	12:01	50.24537485	-4.500912487	54.4	Mixed sediment			
Camera	BOX3_T1	Edd_Box3_T120180508_12_02_30_0146.JPG		08/05/2018	12:02	50.2454175	-4.500673243	54.9	Mixed sediment			
Camera	BOX3_T1	Edd_Box3_T120180508_12_03_29_0147.JPG		08/05/2018	12:03	50.24538541	-4.500392603	54.8	Mixed sediment			
Camera	BOX3_T1	Edd_Box3_T120180508_12_04_30_0148.JPG		08/05/2018	12:04	50.24546443	-4.500215137	54.7	Mixed sediment			
Camera	BOX3_T1	Edd_Box3_T120180508_12_05_30_0149.JPG		08/05/2018	12:05	50.2454625	-4.499976512	54.8	Mixed sediment			
Camera	BOX3_T1	Edd_Box3_T120180508_12_06_31_0150.JPG		08/05/2018	12:06	50.24544754	-4.499730307	54.7	Mixed sediment			
Camera	BOX3_T2	Edd_Box3_T220180508_12_45_16_0151.JPG		08/05/2018	12:45	50.24742251	-4.501820428	52.5	Mixed sediment			
Camera	BOX3_T2	Edd_Box3_T220180508_12_46_28_0152.JPG		08/05/2018	12:46	50.24743177	-4.501529198	50.8	Mixed sediment			
Camera	BOX3_T2	Edd_Box3_T220180508_12_47_23_0153.JPG		08/05/2018	12:47	50.24743048	-4.501268002	50.8	Reef			
Camera	BOX3_T2	Edd_Box3_T220180508_12_48_26_0154.JPG		08/05/2018	12:48	50.24743728	-4.501014085	50.7	Reef			
Camera	BOX3_T2	Edd_Box3_T220180508_12_49_25_0156.JPG		08/05/2018	12:49	50.24744469	-4.500784487	51	Reef			
Camera	BOX3_T2	Edd_Box3_T220180508_12_50_24_0157.JPG		08/05/2018	12:50	50.24744481	-4.500524307	51.1	Reef			
Camera	BOX3_T2	Edd_Box3_T220180508_12_51_24_0158.JPG		08/05/2018	12:51	50.24743828	-4.50020576	51.9	Reef			
Camera	BOX3_T2	Edd_Box3_T220180508_12_52_20_0159.JPG		08/05/2018	12:52	50.24747446	-4.499968168	51.6	Reef			
Camera	BOX3_T2	Edd_Box3_T220180508_12_53_21_0160.JPG		08/05/2018	12:53	50.24746365	-4.499695678	52.6	Mixed sediment			
Camera	BOX3_T2	Edd_Box3_T220180508_12_54_33_0161.JPG		08/05/2018	12:54	50.24746472	-4.499333372	54	Mixed sediment			
Camera	BOX3_T2	Edd_Box3_T220180508_12_55_23_0163.JPG		08/05/2018	12:55	50.24748211	-4.499140162	54.4	Mixed sediment			
Camera	BOX3_T2	Edd_Box3_T220180508_12_56_23_0164.JPG		08/05/2018	12:56	50.24748908	-4.498922988	54.1	Mixed sediment			
Camera	BOX3_T2	Edd_Box3_T220180508_12_57_25_0165.JPG		08/05/2018	12:57	50.24748627	-4.498661952	54.4	Mixed sediment			
Camera	BOX3_T2	Edd_Box3_T220180508_12_58_22_0166.JPG		08/05/2018	12:58	50.24749707	-4.498424578	54.5	Mixed sediment			
Camera	BOX3_T2	Edd_Box3_T220180508_12_59_21_0167.JPG		08/05/2018	12:59	50.24748631	-4.498171818	54.6	Mixed sediment			

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX3_T2	Edd_Box3_T220180508_13_00_21_0168.JPG		08/05/2018	13:00	50.24751037	-4.497958735	54.5	Mixed sediment			
Camera	BOX3_T2	Edd_Box3_T220180508_13_01_21_0169.JPG		08/05/2018	13:01	50.24751537	-4.497751447	54.5	Mixed sediment			
Camera	BOX3_T2	Edd_Box3_T220180508_13_02_22_0170.JPG		08/05/2018	13:02	50.24753121	-4.497538543	54.5	Mixed sediment			
Camera	BOX3_T2	Edd_Box3_T220180508_13_03_28_0171.JPG		08/05/2018	13:03	50.24755016	-4.497318335	54.5	Mixed sediment			
Camera	BOX3_T2	Edd_Box3_T220180508_13_04_20_0172.JPG		08/05/2018	13:04	50.24754298	-4.497158967	54.5	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_14_38_0173.JPG		08/05/2018	13:14	50.24828801	-4.497258307	54.1	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_15_52_0174.JPG		08/05/2018	13:15	50.2483165	-4.497104452	54.1	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_16_56_0175.JPG		08/05/2018	13:16	50.24828007	-4.496907545	54.1	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_17_53_0176.JPG		08/05/2018	13:17	50.2483177	-4.496729338	54	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_18_53_0177.JPG		08/05/2018	13:18	50.2483196	-4.496522618	54.1	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_19_54_0178.JPG		08/05/2018	13:19	50.24831658	-4.496380502	54.1	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_20_53_0179.JPG		08/05/2018	13:20	50.24832007	-4.496203742	53.8	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_21_55_0180.JPG		08/05/2018	13:21	50.2483128	-4.495992013	54	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_22_54_0181.JPG		08/05/2018	13:22	50.24834663	-4.495887955	53.8	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_23_54_0182.JPG		08/05/2018	13:23	50.24833202	-4.495760757	53.7	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_24_57_0183.JPG		08/05/2018	13:24	50.24832185	-4.495579062	53.8	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_25_54_0184.JPG		08/05/2018	13:25	50.24835094	-4.495444557	53.8	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_26_54_0185.JPG		08/05/2018	13:26	50.24837892	-4.495367525	53.7	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_27_54_0186.JPG		08/05/2018	13:27	50.24837609	-4.495206582	53.8	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_28_54_0187.JPG		08/05/2018	13:28	50.24840481	-4.495096997	53.7	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_29_56_0188.JPG		08/05/2018	13:29	50.24840373	-4.495013707	53.5	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_30_53_0189.JPG		08/05/2018	13:30	50.248429	-4.494880407	53.7	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_31_53_0190.JPG		08/05/2018	13:31	50.24842751	-4.494734115	53.7	Mixed sediment			
Camera	BOX3_T3	Edd_Box3_T320180508_13_32_53_0191.JPG		08/05/2018	13:32	50.24845938	-4.494657125	53.6	Mixed sediment			

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX3_T3	Edd_Box3_T320180508_13_33_53_0192.JPG		08/05/2018	13:33	50.24839078	-4.4944569	53.6	Mixed sediment			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_22_02_0137.JPG		20/06/2018	12:22	50.24710841	-4.506466533	48.6	Mixed sediment			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_23_17_0138.JPG		20/06/2018	12:23	50.24720086	-4.506185687	47.3	Reef			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_24_11_0139.JPG		20/06/2018	12:24	50.24726398	-4.505963498	46.7	Reef			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_25_15_0140.JPG		20/06/2018	12:25	50.24734598	-4.505683642	48.7	Reef			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_26_15_0141.JPG		20/06/2018	12:26	50.24743435	-4.505449008	48.9	Reef			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_27_16_0142.JPG		20/06/2018	12:27	50.24752343	-4.505216752	49.1	Reef			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_28_10_0143.JPG		20/06/2018	12:28	50.24761414	-4.505028792	49	Mixed sediment			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_29_09_0144.JPG		20/06/2018	12:29	50.24771028	-4.504814772	48.9	Mixed sediment			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_30_11_0145.JPG		20/06/2018	12:30	50.24779529	-4.50456637	49.7	Reef			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_31_09_0146.JPG		20/06/2018	12:31	50.24787227	-4.504325028	50.4	Mixed sediment			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_32_08_0147.JPG		20/06/2018	12:32	50.2479623	-4.504098838	50.8	Mixed sediment			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_33_08_0148.JPG		20/06/2018	12:33	50.24805362	-4.503862645	51.8	Reef			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_34_11_0149.JPG		20/06/2018	12:34	50.24815877	-4.503596868	51.7	Mixed sediment			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_35_10_0150.JPG		20/06/2018	12:35	50.24826468	-4.503363982	52.7	Reef			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_36_12_0151.JPG		20/06/2018	12:36	50.24836797	-4.503121598	53.5	Reef			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_37_08_0152.JPG		20/06/2018	12:37	50.24846024	-4.502898785	53.7	Mixed sediment			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_38_09_0153.JPG		20/06/2018	12:38	50.24856006	-4.502661287	53.6	Mixed sediment			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_39_08_0154.JPG		20/06/2018	12:39	50.24865376	-4.502440945	53.4	Mixed sediment			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_40_09_0155.JPG		20/06/2018	12:40	50.24875049	-4.502217912	53.5	Mixed sediment			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_41_08_0156.JPG		20/06/2018	12:41	50.24885746	-4.502013813	53.3	Mixed sediment			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_42_09_0157.JPG		20/06/2018	12:42	50.24895607	-4.50180496	53.3	Mixed sediment			
Camera	BOX3_T4	CIFCA_SAC_Edd_B3_T4120180620_12_42_56_0158.JPG		20/06/2018	12:42	50.24902767	-4.501634748	52.9	Coarse sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_12_55_00_0159.JPG		20/06/2018	12:55	50.24600998	-4.505696582	52.4	Mixed sediment			

## 2018\_CIFCA\_SAC\_EDD\_DDV

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_12_56_06_0160.JPG		20/06/2018	12:56	50.24608778	-4.505458832	52.6	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_12_57_07_0161.JPG		20/06/2018	12:57	50.2461636	-4.505242903	52.4	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_12_58_06_0162.JPG		20/06/2018	12:58	50.24624756	-4.505038555	52.5	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_12_59_07_0163.JPG		20/06/2018	12:59	50.24634127	-4.504833697	52.3	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_00_08_0164.JPG		20/06/2018	13:00	50.2464275	-4.50463136	53.4	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_01_07_0165.JPG		20/06/2018	13:01	50.24651924	-4.504438602	52.4	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_02_06_0166.JPG		20/06/2018	13:02	50.24659508	-4.504235012	52.3	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_03_06_0167.JPG		20/06/2018	13:03	50.24667411	-4.504042665	52.3	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_04_07_0168.JPG		20/06/2018	13:04	50.24675622	-4.503844635	52.6	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_05_07_0169.JPG		20/06/2018	13:05	50.24686133	-4.50363813	52.6	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_06_08_0170.JPG		20/06/2018	13:06	50.2469458	-4.503431805	52.7	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_07_08_0171.JPG		20/06/2018	13:07	50.24702869	-4.503215155	52.9	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_08_08_0172.JPG		20/06/2018	13:08	50.24710408	-4.502986288	53.2	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_09_11_0174.JPG		20/06/2018	13:09	50.24719866	-4.50273668	52.9	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_10_07_0175.JPG		20/06/2018	13:10	50.24729349	-4.502531542	52.6	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_11_08_0176.JPG		20/06/2018	13:11	50.2473977	-4.502365487	52.5	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_12_10_0178.JPG		20/06/2018	13:12	50.24748938	-4.502190272	52.2	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_13_08_0179.JPG		20/06/2018	13:13	50.247576	-4.501991462	52.5	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_14_10_0180.JPG		20/06/2018	13:14	50.24765097	-4.501758965	52	Mixed sediment			
Camera	BOX3_T5	CIFCA_SAC_Edd_B3_T520180620_13_15_08_0181.JPG		20/06/2018	13:15	50.24774527	-4.501579875	51.8	Fine sediment			
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_33_22_0182.JPG		20/06/2018	13:33	50.24715966	-4.498676537	53.4	Reef			
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_34_31_0183.JPG		20/06/2018	13:34	50.24724162	-4.498453142	53.7	Reef			
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_35_29_0184.JPG		20/06/2018	13:35	50.24730546	-4.498265455	54.2	Mixed sediment			
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_36_28_0185.JPG		20/06/2018	13:36	50.24738099	-4.498075932	54.4	Mixed sediment			

Cornwall IFCA							Camera Positioning Summary					
Area		Eddystone Reef	Project name		2018 Eddystone DDV Field Report							
Vessel		Tiger Lily	Sampling position		Starboard davit							
Projection												
Sample type	Station number	Image_ID		Date	Time	Latitude (decimal degrees)	Longitude (decimal degrees)	Depth (m)	Substrate	Comments		
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_37_25_0186.JPG		20/06/2018	13:37	50.24743963	-4.497888252	54.1	Mixed sediment			
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_38_26_0187.JPG		20/06/2018	13:38	50.2475236	-4.497692468	54	Mixed sediment			
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_39_27_0188.JPG		20/06/2018	13:39	50.24758082	-4.497493387	54	Mixed sediment			
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_40_29_0189.JPG		20/06/2018	13:40	50.24764755	-4.497274102	54.1	Mixed sediment			
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_41_28_0190.JPG		20/06/2018	13:41	50.24772113	-4.497073162	53.4	Mixed sediment			
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_42_36_0191.JPG		20/06/2018	13:42	50.2478047	-4.496828115	53.9	Mixed sediment			
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_43_36_0192.JPG		20/06/2018	13:43	50.24787964	-4.496624068	53.4	Mixed sediment			
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_45_06_0193.JPG		20/06/2018	13:45	50.24796464	-4.496310825	53.6	Mixed sediment			
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_45_55_0194.JPG		20/06/2018	13:46	50.24800918	-4.496131215	53.6	Mixed sediment			
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_46_41_0195.JPG		20/06/2018	13:46	50.2480653	-4.49597007	53.4	Mixed sediment			
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_47_27_0196.JPG		20/06/2018	13:47	50.24811782	-4.495827692	53.4	Mixed sediment			
Camera	BOX3_T6	CIFCA_SAC_Edd_B3_T620180620_13_48_28_0197.JPG		20/06/2018	13:48	50.24819351	-4.495627045	53.2	Mixed sediment			