1.1 Photo station recording form

Survey and Site Information

Participant name(s):

Survey type: Photo station, Community-led marine biodiversity monitoring handbook

Survey name:

Data owner:

Photography details:

1. **Camera make and model:**

2. **Device configuration:**

Field recording

Station name:

Date:

Time: UTC (+0000) ☐ BST (+0100) ☐ *(UTC preferred)*

GPS details:

Location:

GPS position (WGS84 in decimal degrees): Lat ..... Long .....

GPS accuracy (m):

Position fix: GPS device ☐ Chart ☐ Web mapping site ☐

Description: *please include a description of the photo station, information on site access and any additional notes.*

Image time taken	Compass bearing	Description

Sketch map

Optionally, you can take a photo of your site sketch map and include this as a photo in your upload of photo station data.

2.1 Rocky shore zonation recording form

Survey and site information

Participant name(s):

Survey type: Rocky shore zonation survey, Community-led marine biodiversity monitoring handbook

Survey name:

Date:

Survey start time: UTC (+0000) ☐ BST (+0100) ☐ *(UTC preferred)*

GPS details:

Location:

Positional fix: GPS device ☐ Chart ☐ Web mapping site ☐

GPS accuracy (m):

Data owner:

Description: *please include a description of the survey information on site access and any additional notes.*

Survey quality: Thorough ☐ Adequate ☐ Incomplete ☐

See definitions of habitats and survey designs within the appendix (page 6).

Context photography

Photography details:

1. **Camera make and model**:

2. **Device configuration**:

Photography for data management:

1. Site access
2. Overall site extent (image showing site from high to low shore)
3. Features of interest (such as whole shore photographs to show algal cover)
   Rare or unusual species, species of conservation interest

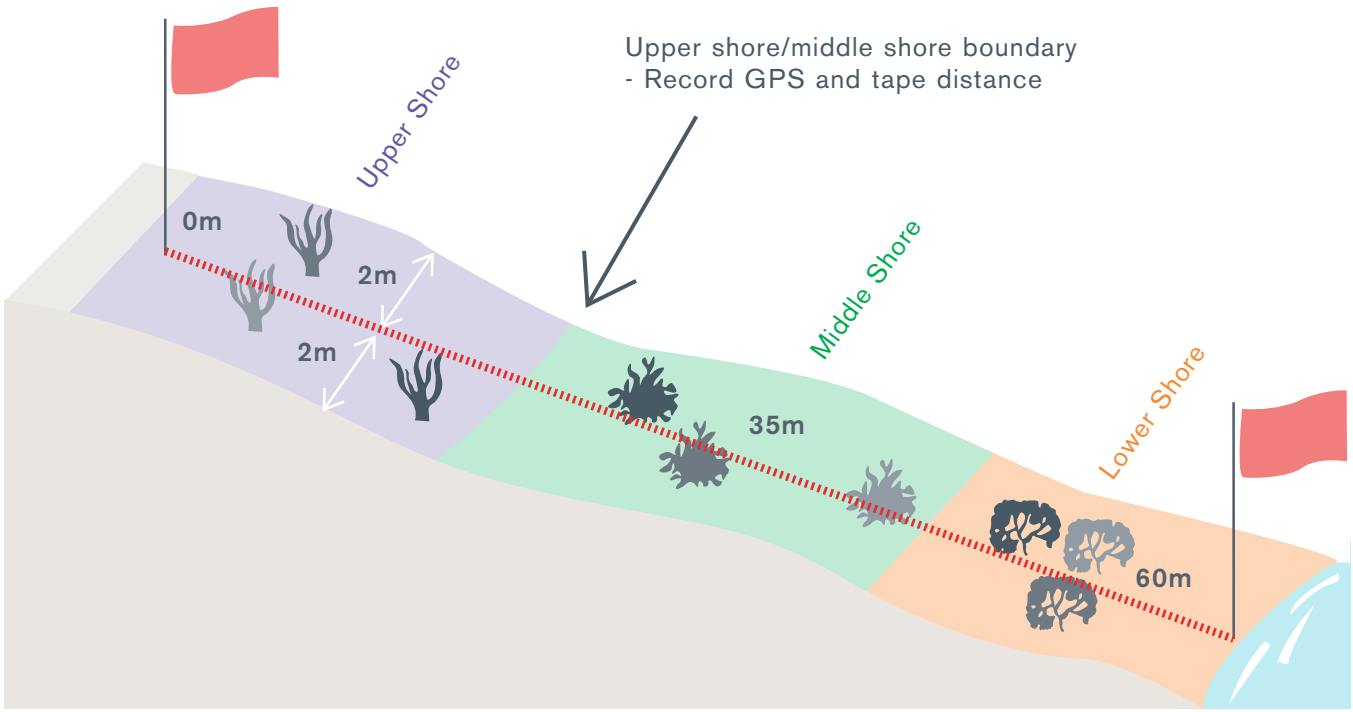
Waypoint	Image/ video time taken	Latitude	Longitude	Compass bearing	Description

Sketch map

Map of the site- survey route

Notes:

▼ Rocky shore zonation survey diagram of shore zones within 2m either side of a transect line.



Field recording

Survey name: ..... **Location** ..... **Date:** .....

Station name: ..... **Transect number:** 1 ☐ 2 ☐ 3 ☐

Results

Please follow the rocky shore zonation survey methods. *The GPS position must be recorded in decimal degrees. If using any other format, it must be converted to WGS84 decimal degrees, and state the format it was recorded in and if a conversion is used.*

Setting up

Feature	Tape distance (m)	Latitude	Longitude	Image time taken	Compass bearing
Marker peg/ high water					Looking down transect:
Low water					

Zone boundary recording

	Zone	Tape distance (m)	Latitude	Longitude	Image time taken	Description
Marker peg	**Upper start**					
	Upper end / mid start					
	Middle end / low start					
	Lower end					

Zone biodiversity recording

Zone	Substrate	Marine life – main species	Extra notes	Image(s) time taken
Upper shore Zone				
Middle shore Zone				
Lower shore Zone				

2.2 Rocky shore profile recording form

Survey and site information

Participant name(s):

Survey type: Rocky shore profile, Community-led marine biodiversity monitoring handbook

Survey name:

Date:

Low water reference station reading time: UTC (+0000) ☐ BST (+0100) ☐ *(UTC preferred)*

Data owner:

Description: *please include a description of the photo station, information on site access and any additional notes.*

Survey quality: Thorough ☐ Adequate ☐ Incomplete ☐

See definitions of habitats and survey designs within the appendix (page 6).

Shore height measurements

Participant name(s): .....

Survey name: ..... **Location** ..... **Date:** .....

Station name: ..... **Transect number:** 1 ☐ 2 ☐ 3 ☐

Reading point name	Tape distance (m)	Levelling pole height reading (m)
Low water reference station		
e.g. A	*65m*	*3.27*

Reading point name	Tape distance (m)	Levelling pole height reading (m)

Did you move the tripod? Y ☐ N ☐

If yes please fill in the below

Please record one measuring pole height reading from both tripod locations

Reference station tape distance = ____m

High water tripod pole reading **(C)** = _____m

Mid shore tripod height reading **(B)** =_____m

2.3 Rocky shore quadrat sampling recording form

Survey and site information

Participant name(s):

Survey type: Rocky shore quadrat sampling, Community-led marine biodiversity monitoring handbook

Survey name:

Date:

Survey start time: UTC (+0000) ☐ BST (+0100) ☐ *(UTC preferred)*

GPS details:

Location:

Positional fix: GPS device ☐ Chart ☐ Web mapping site ☐

GPS accuracy (m):

Data owner:

Description: *please include a description of the photo station, information on site access and any additional notes.*

Survey quality: Thorough ☐ Adequate ☐ Incomplete ☐

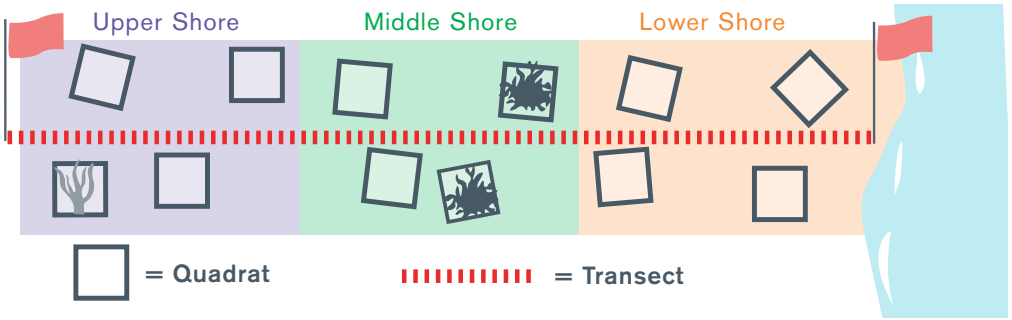
See definitions of habitats and survey designs within the appendix (page 6).

Quadrat results

Follow survey guidance to complete the rocky shore quadrat sampling survey. Common species found in each zone have been provided as a guide. Record all species you see within your quadrat, adding new species to the list.

Method

1. Estimate % coverage of all barnacles, seaweed and algae, colonial animals such as sponges and lichens in the quadrat. Percentages should be estimated down to 10%, below 10% record P for present.
2. Count individuals of non-colonial animals (such as shells, dogwhelks and limpets).



◀ **Placement of quadrats on a rocky shore.**

Survey zone: upper shore

Participant name(s): .....

Survey name: ..... **Location** ..... **Date:** .....

Transect number: 1 ☐ 2 ☐ 3 ☐

Species	% Coverage			
	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4
GPS position **Lat and long**	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Quadrat label name				
Image time taken				
Black tar lichen (Genus *Verrucaria sp.*)				
Black lichen (*Lichina pygmaea*)				
Channelled wrack (*Pelvetia canaliculata*)				
Spiral wrack *(Fucus spiralis)*				
Barnacles sp.				
	Count of animals			
	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4
Small periwinkle (*Melarhaphe neritoides*)				
Rough periwinkle (*Littorina saxatilis*)				

Survey zone: middle shore

Participant name(s): .....

Survey name: ..... **Location** ..... **Date:** .....

Transect number: 1 ☐ 2 ☐ 3 ☐

Species	% Coverage			
	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4
GPS position **Lat and long**	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Quadrat label name				
Image time taken				
Broadleaf sea lettuce (*Ulva lactuca)*				
Gutweed (*Ulva intestinalis*)				
Knotted wrack (*Ascophyllum nodosum*)				
Saw wrack or toothed wrack (*Fucus serratus*)				
Bladder wrack (*Fucus vesiculosus*)				
Thongweed (*Himanthalia elongata*)				
Oarweed (*Laminaria digitata*)				
Japanese wireweed (*Sargassum muticum*)				
Irish moss (*Chondrus crispus*)				
Encrusting coralline algae (Genus *Lithothamnion sp.*)				
False Irish moss (*Mastocarpus stellatus*)				
Purple laver (*Porphyra umbilicalis*)				
Pepper dulse (*Osmundea pinnatifida*)				
Bread-crumb sponge (*Halichondria panicea*)				
Barnacles sp.				
Common coralline/ Coral weed *(Corallina officinalis)*				
	Count of animals			
	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4
Beadlet anemone (*Actinia equina)*				
European painted top shell (*Calliostoma zizyphinum*)				
Grey top shell (*Gibbula cineraria*)				
Common or edible periwinkle (*Littorina littorea*)				
Blue mussel (*Mytilus edulis*)				
Dog whelk (*Nucella lapilus*)				
Limpets (Genus *Patella sp.*)				
Purple top shell (*Steromphala umbilicalis*)				
Lined top shell (*Phorcus lineatus*)				
Flat periwinkle (*Littorina obtusata*)				

Survey zone: lower shore

Participant name(s): .....

Survey name: ..... **Location** ..... **Date:** .....

Transect number: 1 ☐ 2 ☐ 3 ☐

Species	% Coverage			
	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4
GPS position **Lat and long**	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Quadrat label name				
Image time taken				
Broadleaf sea lettuce (*Ulva lactuca)*				
Gutweed (*Ulva intestinalis*)				
Knotted wrack (*Ascophyllum nodosum*)				
Saw wrack or toothed wrack (*Fucus serratus*)				
Bladder wrack (*Fucus vesiculosus*)				
Thongweed (*Himanthalia elongata*)				
Oarweed (*Laminaria digitata*)				
Japanese wireweed (*Sargassum muticum*)				
Irish moss (*Chondrus crispus*)				
Encrusting coralline algae (Genus *Lithothamnion sp.*)				
False Irish moss (*Mastocarpus stellatus*)				
Purple laver (*Porphyra umbilicalis*)				
Pepper dulse (*Osmundea pinnatifida*)				
Bread-crumb sponge (*Halichondria panicea*)				
Barnacles sp.				
Common coralline/ Coral weed *(Corallina officinalis)*				
Dulse *(Palmaria palmata)*				
	Count of animals			
	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4
Beadlet anemone (*Actinia equina)*				
European painted top shell (*Calliostoma zizyphinum*)				
Grey top shell (*Gibbula cineraria*)				
Common or edible periwinkle (*Littorina littorea*)				
Blue mussel (*Mytilus edulis*)				
Dog whelk (*Nucella lapilus*)				
Limpets (Genus *Patella sp.*)				
Purple top shell (*Steromphala umbilicalis*)				
Lined top shell (*Phorcus lineatus*)				
Flat periwinkle (*Littorina obtusata*)				
Snakelocks anemone *(Anemonia viridis)*				
Blue-rayed limpet *(Patella pellucidum)*				

Additional recording space

Participant name(s): ....

Survey name: .... **Location** .... **Date:** ....

Transect number: 1 ☐ 2 ☐ 3 ☐

Survey zone: Upper shore ☐ Middle shore ☐ Lower shore ☐

Species	% Coverage or individual count			
	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4
Quadrat label name				
Image time taken				

3.1 Underwater marine life observation recording form

Fill in survey and site information on the underwater marine life observations data recording sheet before beginning the survey. Data for each survey station within the survey can be added to a new row in the table.

Survey and site information

Participant name(s):

Survey type: Underwater marine life observation, Community-led marine biodiversity monitoring handbook

Survey name:

Date: **Survey start time:** UTC (+0000) ☐ BST (+0100) ☐ *(UTC preferred)*

GPS details

Location:

Positional fix: GPS device ☐ Chart ☐ Web mapping site ☐ ROV estimate ☐ Underwater GPS ☐

GPS accuracy (m):

Data owner:

Description: *please include a description of the survey, information on site access and any additional notes.*

Survey quality: Thorough ☐ Adequate ☐ Incomplete ☐

See definitions of habitats and survey designs within the appendix (page 6).

Sampling device: Polecam ☐ DDV ☐ ROV ☐

Depth derived from:

Depth sensor on camera system ☐ Length of rope/ tether ☐

Depth sensor on boat (adjust depth for boat draught) ☐

Height of camera: *i.e. average height of camera above seabed during survey* _____(m)

Camera make and model:

Device configuration: *(i.e. the camera set-up, any GPS or depth overlay, lenses used, scaling lasers etc.)*

Lights make and model:

Survey name: ..... Sheet number: .....

Participant name(s): ..... Location: ..... Date: .....

Station	Image / video time taken	GPS position	Depth (m)	Substrate	Marine life cover	**Marine species** - estimate how many per 1m² within the survey area. If unknown - indicate P for present.
		Lat Long				
		Lat Long				
		Lat Long				
		Lat Long				
		Lat Long				

Survey name: ..... Sheet number: .....

Participant name(s): ..... Location: ..... Date: .....

Station	Image / video time taken	GPS position	Depth (m)	Substrate	Marine life cover	**Marine species** - estimate how many per 1m² within the survey area. If unknown - indicate P for present.
		Lat Long				
		Lat Long				
		Lat Long				
		Lat Long				
		Lat Long				

3.2 Underwater video transect recording form

Fill in survey and site information before beginning the survey. Fill in a new row in the recording table for each survey station.

Survey and site information

Participant name(s):

Survey type: Underwater video transect, Community-led marine biodiversity monitoring handbook

Survey name:

Date: **Time zone used:** UTC (+0000) ☐ BST (+0100) ☐ *(UTC preferred)*

GPS details

Location:

Positional fix: GPS device ☐ Chart ☐ Web mapping site ☐ ROV estimate ☐ Underwater GPS ☐

GPS accuracy (m):

Data owner:

Description: *please include a description of the survey, information on site access and any additional notes.*

Survey quality: Thorough ☐ Adequate ☐ Incomplete ☐

See definitions of habitats and survey designs within the appendix (page 6).

Sampling device: Polecam ☐ DDV ☐ ROV ☐

Depth derived from:

Depth sensor on camera system ☐ Length of rope/ tether ☐

Depth sensor on boat (adjust depth for boat draught) ☐

Height of camera: *i.e. average height of camera above seabed during transect* _____(m)

Camera make and model:

Device configuration: *(i.e. the camera set-up, any GPS or depth overlay, lenses used, scaling lasers etc)*

Lights make and model:

Underwater video transect recording form

Survey name: ..... Sheet number: .....

Participant name(s): ..... Location: ..... Date: .....

Survey plan – *use the survey plan template.*

A survey plan must have been completed. Please use the survey plan template (*page 5*) to create a survey plan in advance of your survey and take this in the field with you to complete your survey. Specifically, ensure you have a copy of the map with planned stations and the planned survey station GPS positions.

Station	Time start	Time end	GPS position start	GPS position end	Depth start (m)	Depth end (m)	Way Pt in and out	Video notes (main substrate and main marine life cover)
			Lat Long	Lat Long			In Out	Substrate: Marine life cover: Possible PMF? Yes ☐ No ☐
Description: - *additional notes*				Marine life species: - estimate how many per 1m² within the survey area. If unknown - indicate P for present				
			Lat Long	Lat Long			In Out	Substrate: Marine life cover: Possible PMF? Yes ☐ No ☐
Description:				Marine life species:				
			Lat Long	Lat Long			In Out	Substrate: Marine life cover: Possible PMF? Yes ☐ No ☐
Description:				Marine life species:				

Survey name: ..... Sheet number: .....

Participant name(s): ..... Location: ..... Date: .....

Station	Time start	Time end	GPS position start	GPS position end	Depth start	Depth end	Way Pt in and out	Video notes (main substrate and main marine life cover)
			Lat Long	Lat Long			In Out	Substrate: Marine life cover: Possible PMF? Yes ☐ No ☐
Description: - *additional notes*				Marine life species: - estimate how many per 1m² within the survey area. If unknown - indicate P for present				
			Lat Long	Lat Long			In Out	Substrate: Marine life cover: Possible PMF? Yes ☐ No ☐
Description:				Marine life species:				
			Lat Long	Lat Long			In Out	Substrate: Marine life cover: Possible PMF? Yes ☐ No ☐
Description:				Marine life species:				

3.3 Feature focus: habitat mapping recording form

Survey and site information

Participant name(s):

Survey type: Feature focus: habitat mapping, Community-led marine biodiversity monitoring handbook

Survey name:

Date: **Survey start time:** UTC (+0000) ☐ BST (+0100) ☐ *(UTC preferred)*

GPS details

Location:

Positional fix: GPS device ☐ Chart ☐ Web mapping site ☐ ROV estimate ☐ Underwater GPS ☐

GPS accuracy (m):

Data owner:

Description: *please include a description of the survey, information on site access and any additional notes.*

Survey quality: Thorough ☐ Adequate ☐ Incomplete ☐

See definitions of habitats and survey designs within the appendix (page 6).

Access: Foot (intertidal) ☐ Snorkelling ☐ Bathyscope ☐

Camera make and model:

Device configuration: *(i.e. the camera set-up, any GPS or depth overlay, lenses used, scaling lasers etc)*

Sketch map

Survey name: ..... Sheet no.: .....

Participant name(s): .....

Location: ..... Date: .....

The GPS position must be recorded in WGS84 decimal degrees. If using any other format, it must be converted to decimal degrees, and state the format it was recorded in and record that you used a conversion.

Habitat boundary:

Waypoint name	**GPS position**	**Boundary description –** *defined, patchy or gradual*	**Additional notes**	**Image time taken**
	Lat Long			
	Lat Long			
	Lat Long			
	Lat Long			
	Lat Long			
	Lat Long			
	Lat Long			
	Lat Long			
	Lat Long			
	Lat Long			

Mapped habitat details:

GPS position	**Depth (m)**	**Substrate**	**Marine life cover**	**Marine species** - estimate how many per 1m² within the survey area. If unknown - indicate P for present.	**Image time taken**
Lat Long					

3.4 Feature focus: habitat quality recording form

Survey and site information

Participant name(s):

Survey type: Feature focus: habitat quality, Community-led marine biodiversity monitoring handbook

Survey name:

Date: **Survey start time:** UTC (+0000) ☐ BST (+0100) ☐ *(UTC preferred)*

GPS details

Location:

Positional fix: GPS device ☐ Chart ☐ Web mapping site ☐ ROV estimate ☐ Underwater GPS ☐

GPS accuracy (m):

Data owner:

Description: *please include a description of the survey, information on site access and any additional notes.*

Survey quality: Thorough ☐ Adequate ☐ Incomplete ☐

See definitions of habitats and survey designs within the appendix (page 6).

Camera make and model:

Device configuration: *(i.e. the camera set-up, lenses used etc)*

Sketch map

Mussel beds

Survey name: ..... **Sheet no.:** .....

Participant name(s): ..... **Location:** ..... **Date:** .....

Station name: ..... **Transect number:** 1 ☐ 2 ☐ 3 ☐

GPS position (WGS84 in decimal degrees)

Transect start: Lat ..... Long .....

Transect end: Lat ..... Long .....

Transect compass bearing: .....

Quadrat position (m)	Substrate	Comments (e.g. macrofauna – crabs sp x 1, brittle star x 5 etc)	% Live coverage	% Dead coverage	% Algae coverage
5					
10					
15					
20					
25					
30					
35					
40					
45					
50					
Average					

Seagrass beds

Survey name: ..... Sheet number: .....

Participant name(s): ..... Location: ..... Date: .....

Station name: .....

Transect number: 1 ☐ 2 ☐ 3 ☐ **Transect compass bearing:** .....

GPS position (WGS84 in decimal degrees)

Start of transect: Lat ..... Long ..... End of transect: Lat ..... Long .....

Quadrat position (m)	Substrate	**Comments** (e.g. macrofauna – crabs sp x 1, brittle star x 5 etc)	% Seagrass coverage	Seagrass species	% Algae coverage	Canopy height	% Epiphyte coverage
5							
10							
15							
20							
25							
30							
35							
40							
45							
50							
Average							