

Cornwall Wildlife Trust

## The Intertidal Discovery Project



## SITA trust

Enriching Nature
Programme

## Caz Waddell

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1. Map intertidal habitats along 450km of Cornwall's North Coast.
2. Produce three key datasets; species, biotopes and nonnatives.
3. Create an Internet Mapping Portal.

4 Innut towards marine management pla


## Cornwall's North Coast

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## Foot surveys



- $51 \%$ foot
- $40 \%$ boat
- 9\% kayak


## Boat \& Kayak



Photos: Caz Waddell
Tel: (01872) 273939


Cornwall Data Collection

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 Data Collection

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Biotopes: Uniform areas of plant and animal distribution (recognised ecological communities)




Cornwall
Communities \& Volunteers Wildlife Trust

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Over 5000 volunteer hours
Equivalent of 2.2 full-time

staff

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## Achievements

- Surveyed $31,899,064 \mathrm{~m}^{2}$ of intertidal habitat (3,190 hectares).
- Every major outlying rock and island within 1 mile of the coast.
- Tidal limits on the 3 major estuaries.
- Complete baseline data for the North coast; accurate to within 5 m .

Proven ability to undertake field surveys with innovative mobile GIS technology.


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## Polzeath's Intertidal Habitats:

 41 different biotopes13 broad habitat types
7 lifeform types
(152 species)

| Broad Habitat Type | Area (ha) |
| :--- | :---: |
| Caves | 0.001 |
| Bare rock | 0.037 |
| Lichens | 0.399 |
| Rockpools | 0.223 |
| Green algae dominated | 0.251 |
| Red algae dominated | 0.267 |
| Fucoid dominated | 1.356 |
| Kelp dominated | 0.376 |
| Mussel beds | 1.402 |
| Barnacle habitats | 1.916 |
| Sand habitats (worms) | 6.900 |
| Sand habitats | 1.790 |
| (amphipods) | 0.710 |
| Sand habitats (other) | 15.625 |
| TOTAL |  |

 Using Evidence



## Using Evidence



## Polzeath's Management



Resource management
1.42 ha mussel habitat = approx. 4.26 tonnes


Fucoid/kel
p

Non-native species


BAP habitats


Inshore Fisheries and Conservation Authority

Bait digging Possible

# Using Evidence 

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## Using Evidence

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## Using Evidence

## MCZ Tranche II evidence data sent to NE/DEFRA



## Informing Policy



Inshore Fisheries and
Conservation Authority


Environmental Planning

Surveyed area of Sabellaria BAP/HPI habitat in the Heartland Point to Tintagel rMCZ

-LS.LBR.Sab

■LS.LBR.Sab.Salv
-Total Intertidal Habitat (75 Types)

## Trends \&

## Data Analysis




## Resources

- A fully interactive mapping portal for desktop \& mobiles.
- New marine data website www.marinedatacornwall.org 'one-stop' location for all CWT and ERCCIS managed marine data.


All free and publically available.

## The Intertidal Discovery Mapping Portal



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Intertidal Habitat Guides (Cornish North Coast)
BeachHabitatGuides *


The Intertidal Discovery Mapping Portal


The Intertidal Discovery Mapping Portal


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I want info about the habitats in my local area...


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## The Intertidal Discovery Mapping Portal

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## I want more on a particular biotope...

## 108 biotope guides

www.intertidaldiscovery.org.uk/Biotopes


## The Intertidal Discovery Mapping Portal



## 104 access guides



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## I want info on

 beach access...
considerably throughout the year and during spring
tides can be minimal. Lelant Beach is mostly sand iides can be minimal. Lelant Beach is mostly sand
nearer the mouth of the estuary but can be stony wi shingle opposite the stony spit that seperates the two
arms of the river.

## (2)루뭉ㅇ

monsemp
 ctated in the dunes. Swimming and entering the river is prohibited because of strong currents. It tiver is plotibited because of strong currents. It
avisable to only swim in the designated area atrolled by lifeguards. Svimming at the mouth of the recognised surfing beach because of its aspect but a he far end of Porthkidney Sands at Hawks Point when here is a huge swell, a fine surf is produced for the
more experienced; zenerally the beach is only good more experienced, generaliy the beach is only yoood
for boodyboarding and kite surfing. It is dangerous to oorkel and there are no rock pools.


B(1)Q
 pub and shop in Lelant village.


0
Water quality is very good. Although the herent dangers of bathing it can be a sheltered possible to walk, round Carrack Gladden to Carbis Bay

## The Intertidal Discovery Mapping Portal

Details $\frac{\text { at }}{\text { De }}=$
$\square$ Russel beds
$\square$ Red algae dominated
$\square$ Rock habitats (other)
$\square$ Rockpools
$\square$ Saltmarsh habitats
$\square$ Samphipods)
$\square$ Sand habitats (worms)
$\square$ Surge Gulley
$\square$ Terrestrial Habitat

Intertidal Habitat Guides (Cornish North Coast)

BeachHabitatGuides *

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## I want to print a map...

March 6, 2015



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## I want to remove the survey layers...

## bitat Guide

 (Cornish North Coast)BeachHabitatGuides *

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I want to change the background...

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## The Intertidal Discovery Mapping Portal



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I want to measure things...

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## Intertidal Habitat Guide

 (Cornish North Coast)BeachHabitatGuides

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Beach Access Guides (Cornish North Coast)
BeachAccessGuides
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## I want to know where I am, or set a reference point for when I'm out

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Intertidal Habitat Guides (Cornish North Coast)

BeachHabitatGuides
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Beach Access Guides (Cornish North Coast)
BeachAccessGuides
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## For more information:

## www.intertidaldiscovery.org.uk

Or contact the Project Team:
Caz Waddell, Martin Goodall, Cat Wilding


