



Protecting Cornwall's wildlife and wild places

# **The Intertidal Discovery Project**







Enriching Nature Programme

# Caz Waddell

### Marine Conservation Officer

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www.cornwallwildlifetrust.org.uk

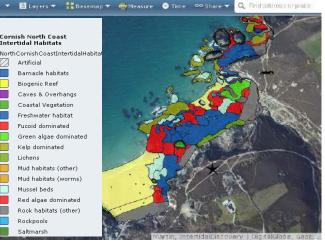






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- 1. Map intertidal habitats along 450km of Cornwall's North Coast.
- 2. Produce three key datasets; species, biotopes and nonnatives.
- 3. Create an Internet Mapping Portal.
- 4 Input towards marine management pla









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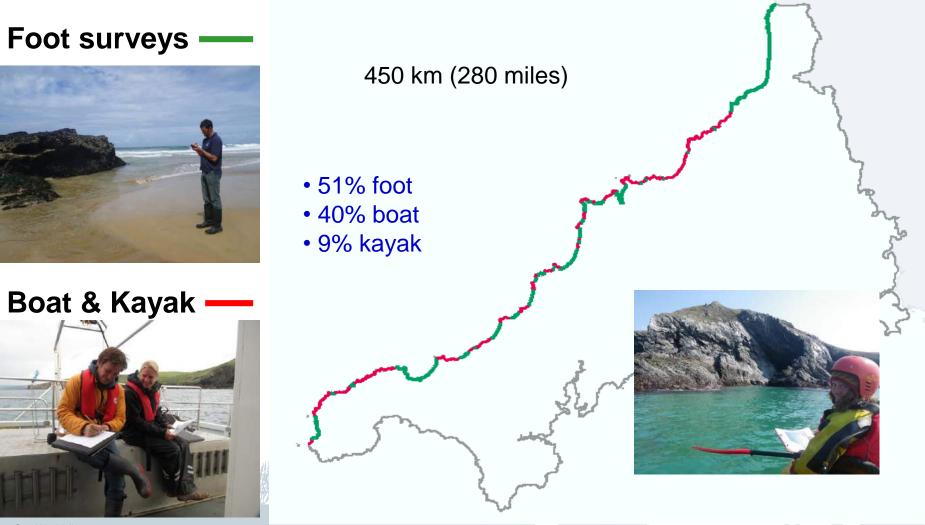
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## **Cornwall's North Coast**



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Photos: Caz Waddell

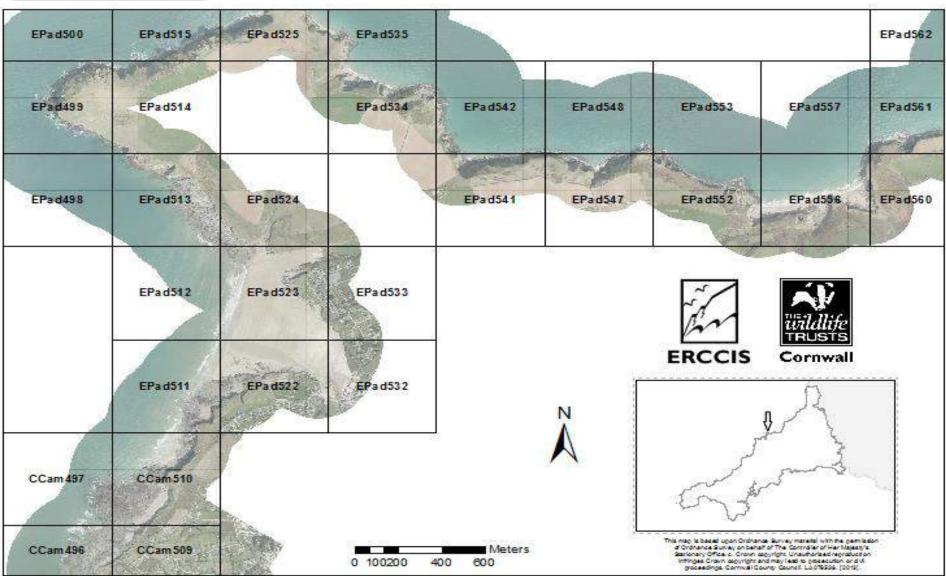
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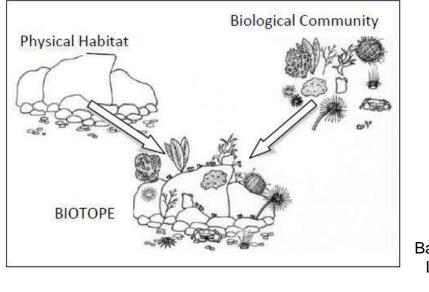






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### **Biotopes:** Uniform areas of plant and animal distribution (recognised ecological communities)



'Intertidal Underboulder communities' (BAP Habitat) LR.MLR.DF.FserBo

Barnacles and mussels LR.HLR.MusB.MytB

Yellow and Grey Lichens

LR.FLR.Lic.YG



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## **Communities & Volunteers**



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## Over 450 people trained



### Over 5000 volunteer hours



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Value of over

Equivalent of 2.2 full-time



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## **Achievements**

- Surveyed 31,899,064 m<sup>2</sup> 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 5m.

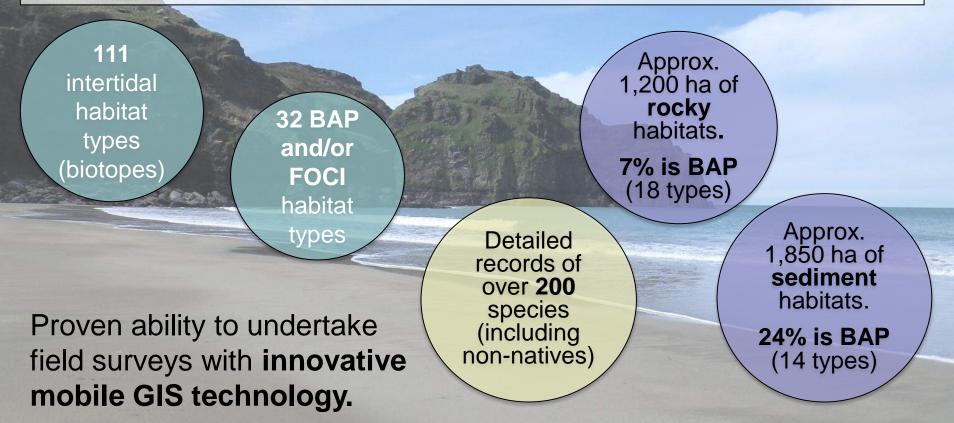


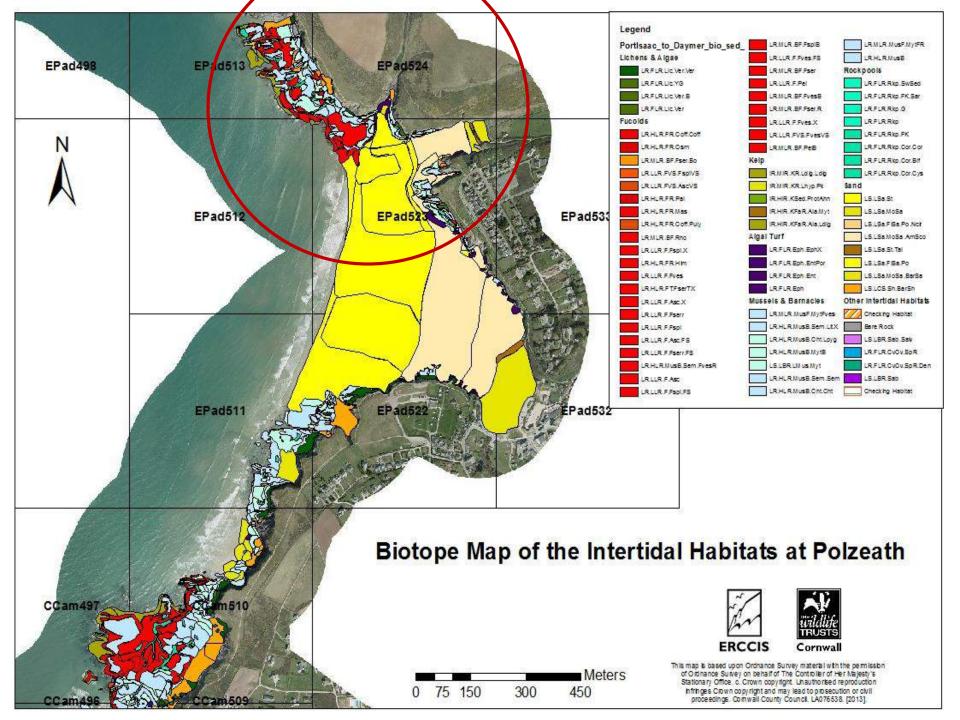
Photo: Caz Waddell.

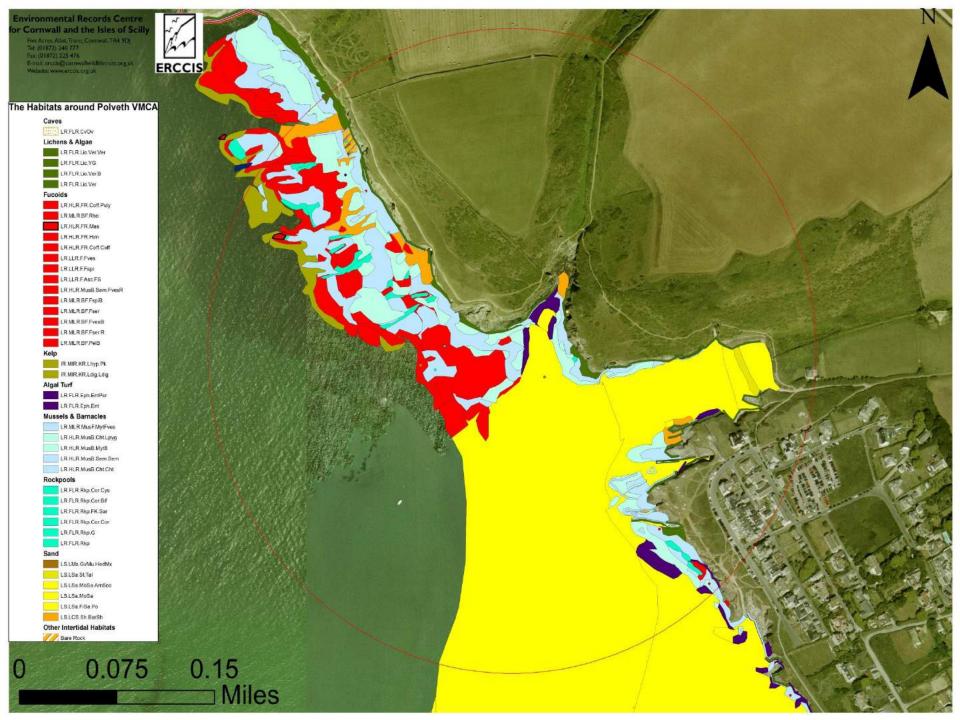


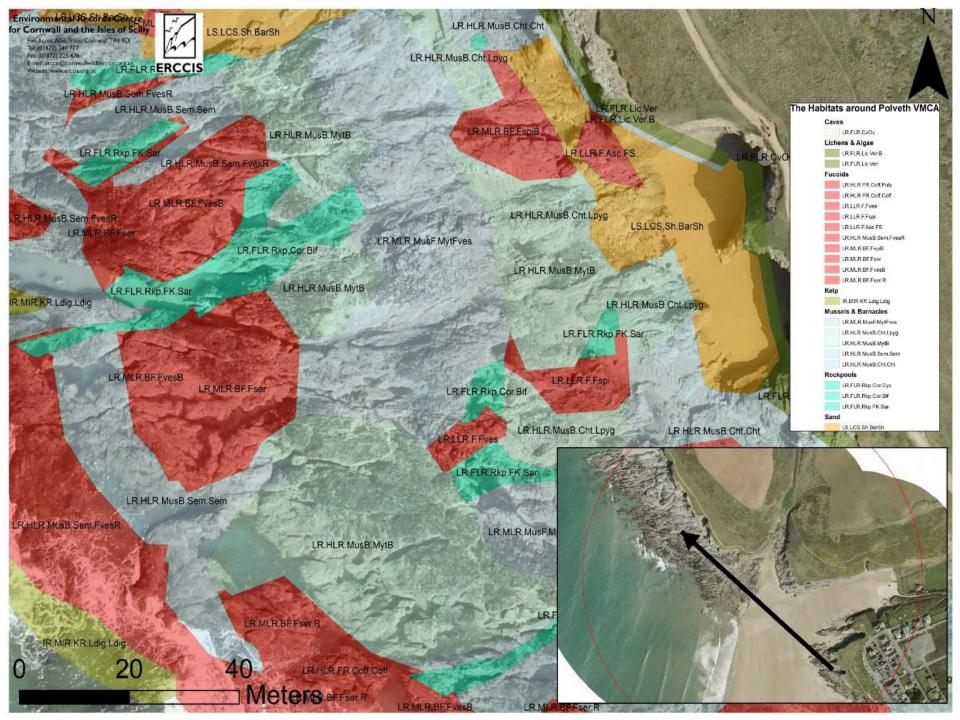


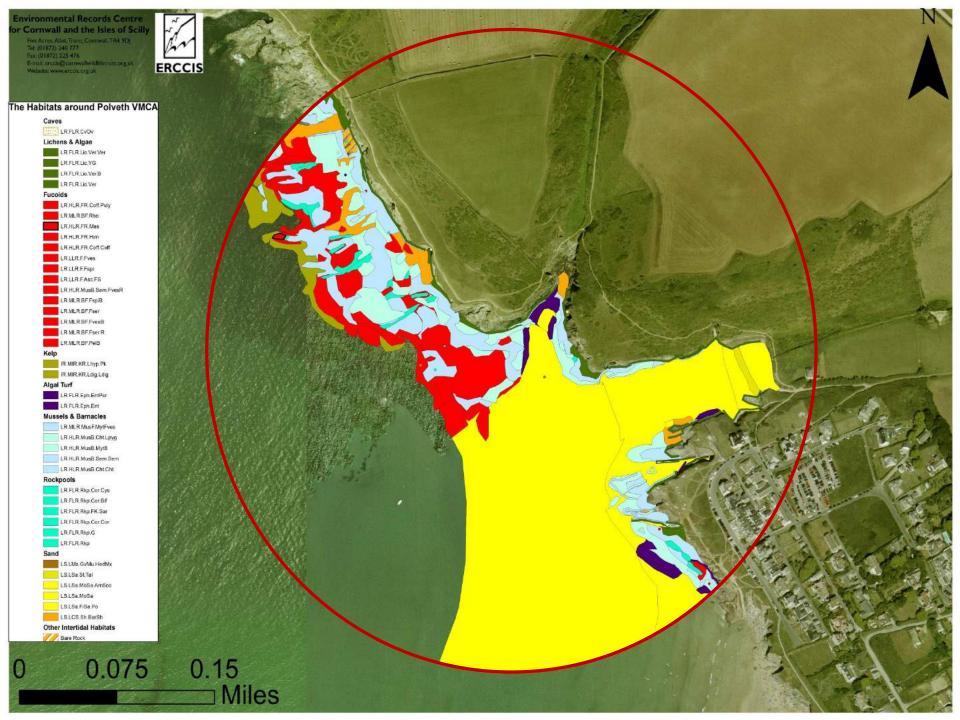
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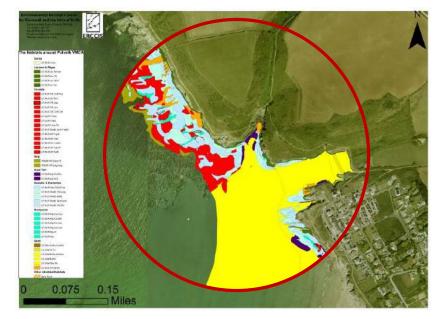








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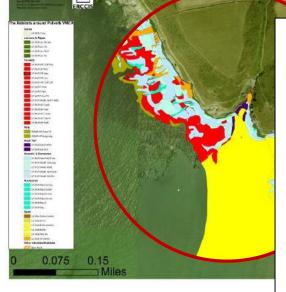
Polzeath's Intertidal Habitats: 41 different biotopes 13 broad habitat types 7 lifeform types (152 species)

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 (amphipods)	1.790
Sand habitats (other)	0.710
TOTAL	15.625

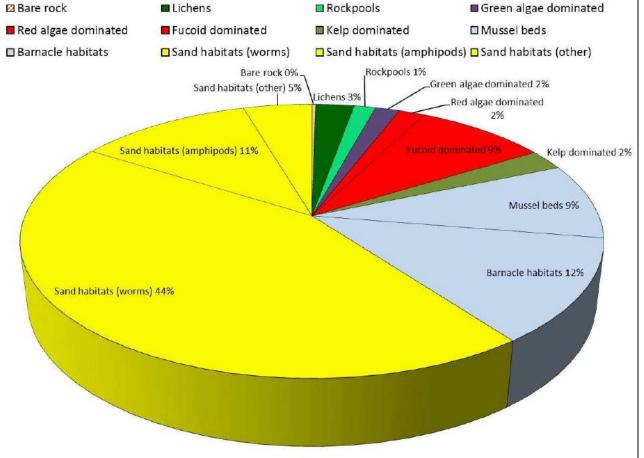




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### Broad Habitat Types of the Intertidal Zone at Polzeath

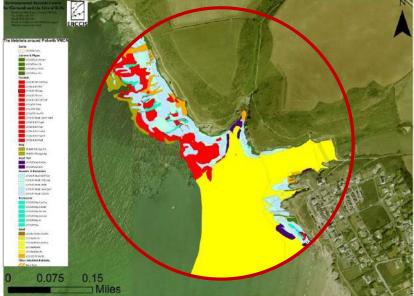




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## **Polzeath's Management**



Resource management 1.42 ha mussel habitat = approx. 4.26



# Non-native species





BAP habitats



Bait digging – Possible

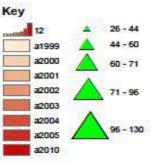


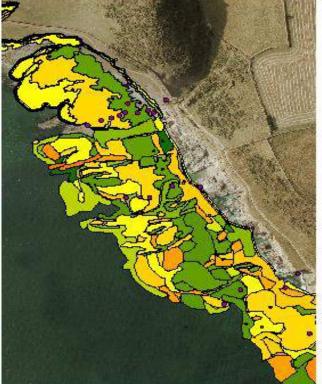


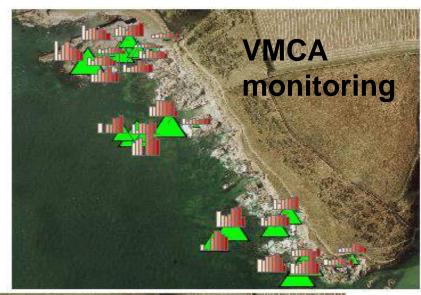
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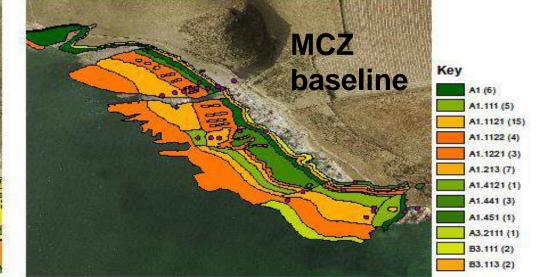


Intertidal Discovery









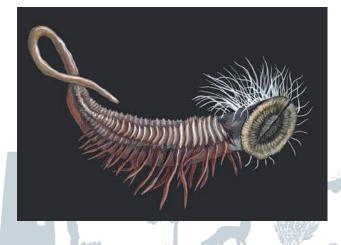




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Honeycomb worms reefs Sabellaria alveolata





Photos: Alan Rowland (top left) and Matt Slater (above).

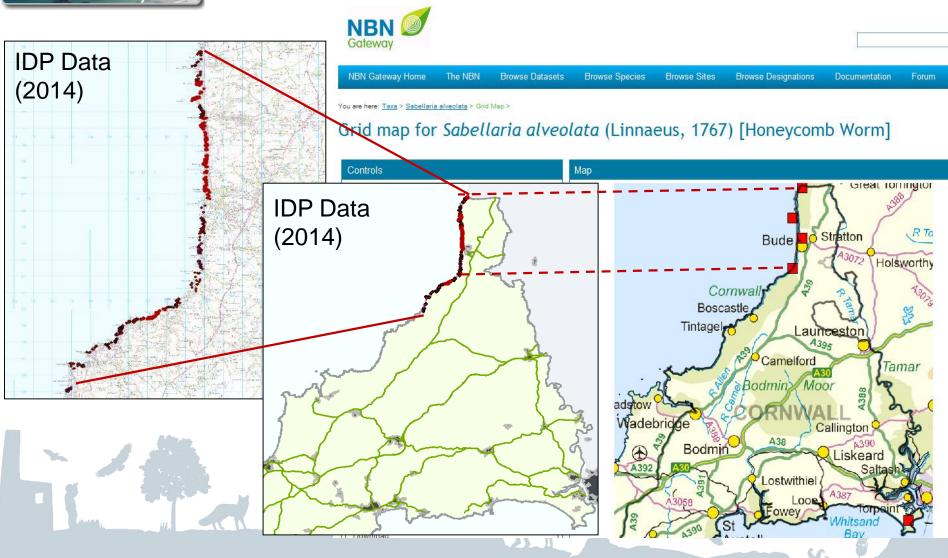
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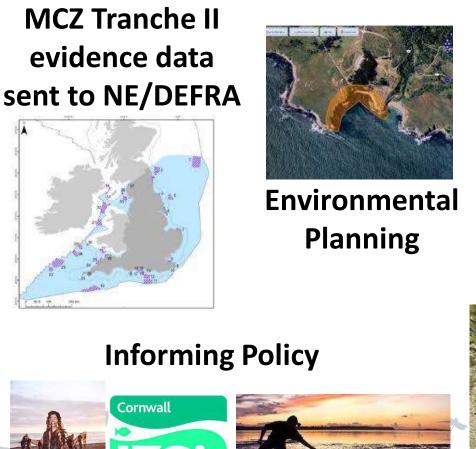


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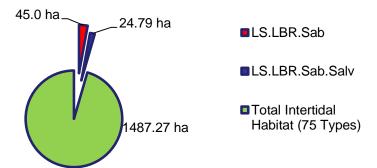




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Surveyed area of *Sabellaria* BAP/HPI habitat in the Heartland Point to Tintagel rMCZ

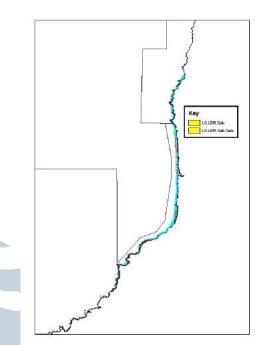


## Trends & Data Analysis



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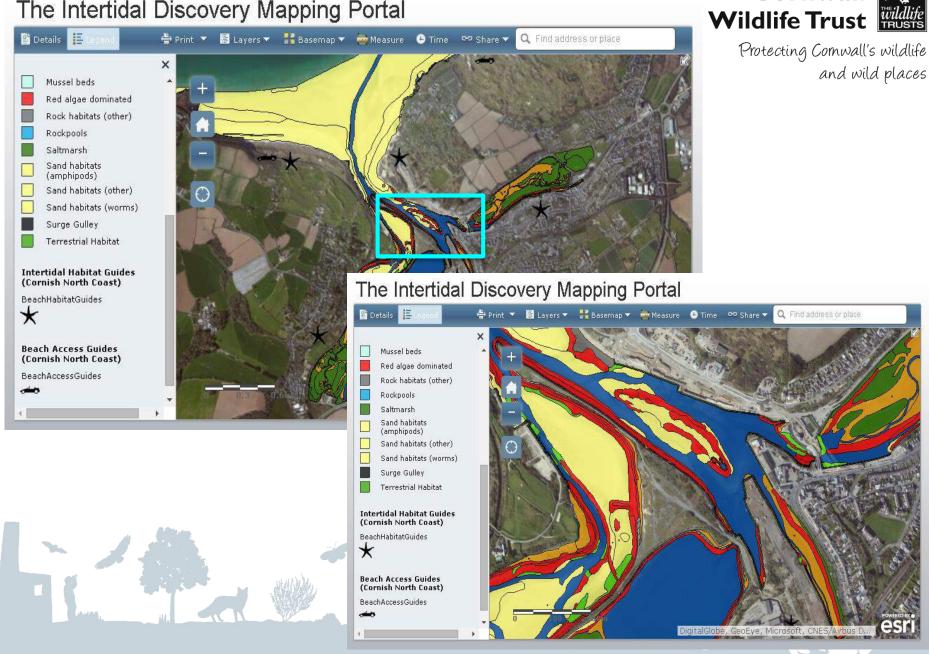
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- A fully **interactive mapping portal** for desktop & mobiles.
- New marine data website <u>www.marinedatacornwall.org</u> 'one-stop' location for all CWT and ERCCIS managed marine data.



### All free and publically available.

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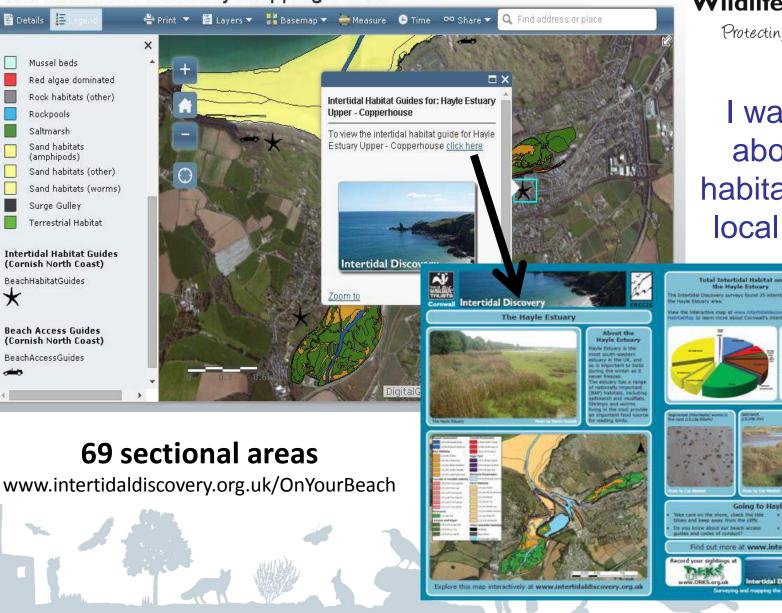


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Registered charity number: 214929

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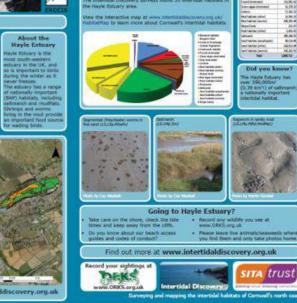


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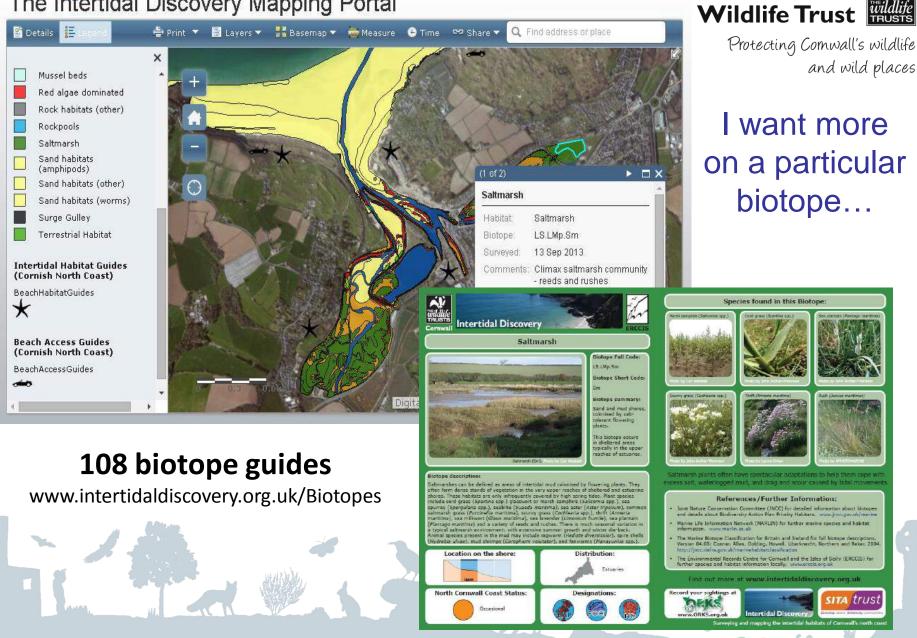
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## I want info about the habitats in my local area...



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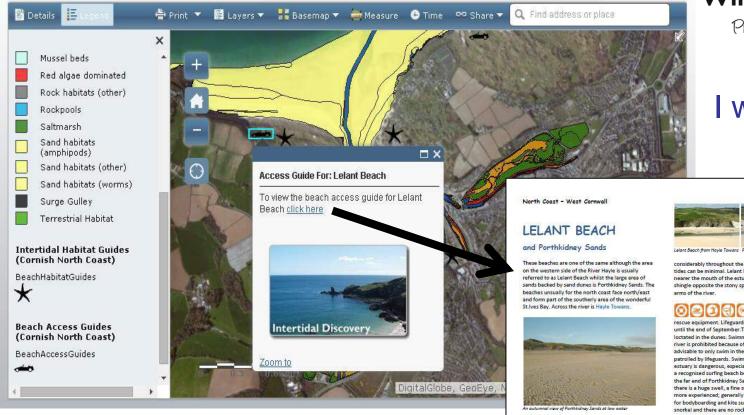


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### 104 access guides

By kind permission from Mike Hawkey



It is a wonderful expanse of fine yellow sand at low water which is at its widest next to the mouth of the river. The amount of sand at high water will vary



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## I want info on beach

### access...



considerably throughout the year and during spring tides can be minimal. Lelant Reach is mostly sand nearer the mouth of the estuary but can be stony with shingle opposite the stony spit that seperates the two

There is safety and rescue equipment. Lifeguards are on duty from May until the end of September. The lifeguard lookout is loctated in the dunes. Swimming and entering the river is prohibited because of strong currents. It is advisable to only swim in the designated area patrolled by lifeguards. Swimming at the mouth of the estuary is dangerous, especially at low water. It is not a recognised surfing beach because of its aspect but at the far end of Porthkidney Sands at Hawks Point when there is a huge swell, a fine surf is produced for the more experienced; generally the beach is only good for bodyboarding and kite surfing. It is dangerous to snorkel and there are no rock pools.

#### There are no restrictions on

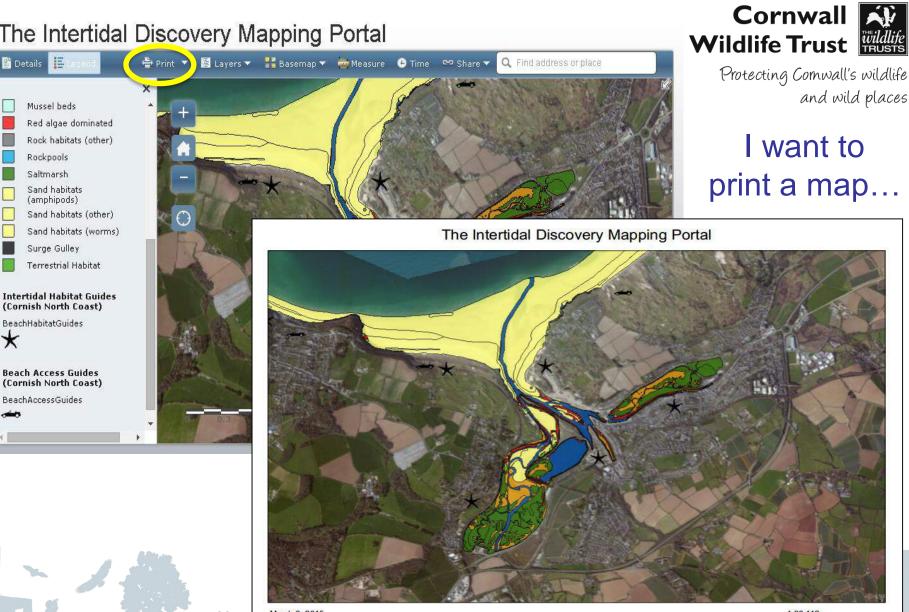
dogs. There are no toilets or other facilities. There is a pub and shop in Lelant village.



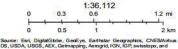
Water quality is very good. Although the nherent dangers of bathing it can be a sheltered beach and never gets crowded. At low spring tides it is possible to walk around Carrack Gladden to Carbis Bay

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March 6, 2015



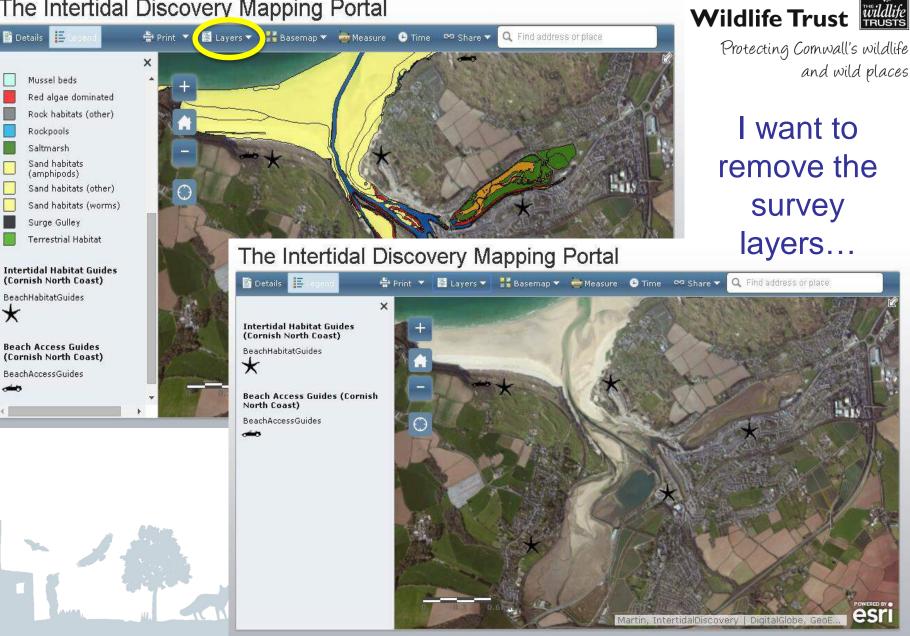
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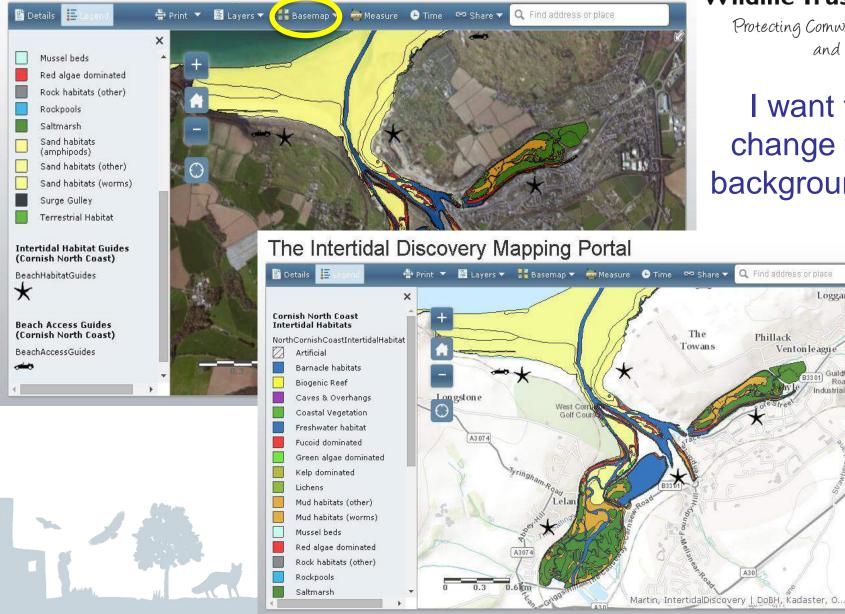


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Loggans

Guildford

Road Industrial Estate

Venton le ague

B33.01

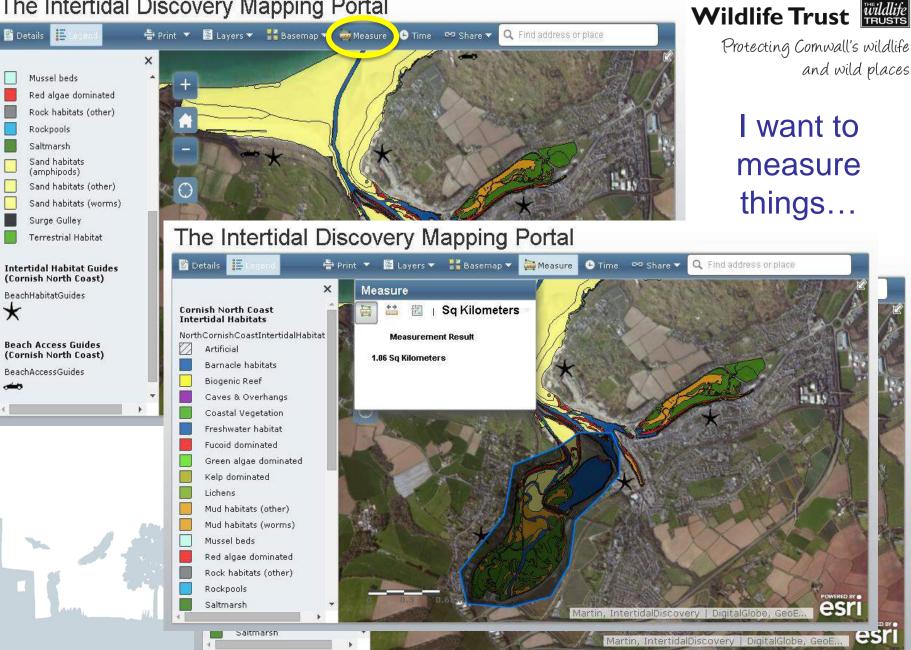
## I want to change the background...

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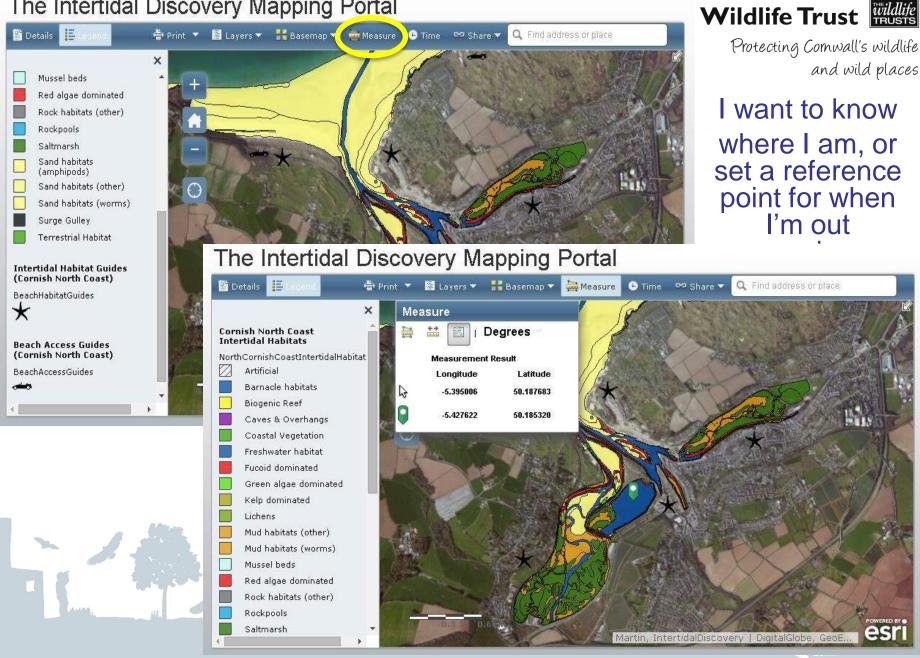
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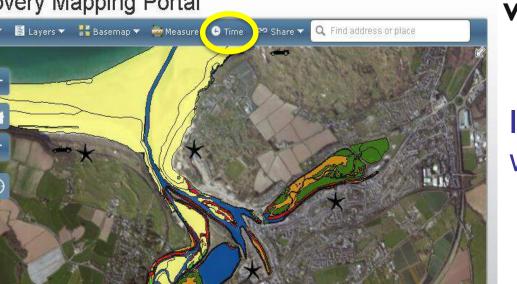
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### The Intertidal Discovery Mapping Portal

### Cornwall Wildlife Trust



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## I want to know when the area was surveyed...



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ockpools

altmarsh





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For more information:

www.intertidaldiscovery.org.uk

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

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ERCCIS

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