

Southwest Marine Ecosystems Conference

Setting up
Sustaining and
Securing a
Citizen science network



Cornwall
SEAL
Group
Research
Trust



Setting up

Have a grand plan and dare to dream

Do it organically and capitalise on serendipity



Setting up



- 2000: Just me! Surveying 2 days a week.
- 2004: CSG set up (met every 2 months then monthly from 2008)
- 2005 Website (re-designed 2015)
- 2008
 - Gave up my salary
 - Time to think, lead and do
 - First systematic team survey – Looe (now many)
 - System for recording data from other people/sites
 - Network expansion by word of mouth
- 2011 – New MS Access database (re-designed 2017)
- 2015 – Re-named CSGRT and charity status
- 2018 – Amazement and Discovery Ranger





CSGRT



- An evidence based conservation charity
- Foundation CIO – trustees
- Research: Communicate: Inspire: Engage: Conserve
 - Passionately protecting Cornwall's precious marine life
 - Identifying and monitoring local seals across the SW
 - Researching, report on and spreading the word on lessons learned
 - Putting seals on everyone's agenda and giving seals a voice in policy and planning



Tell amazing real life stories

Bring seals to people

Network and recruit

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
Jan		2			1		2	2			1				1			1	10
Feb											1			1	2	1		1	6
Mar						2	4	1		1		1		1	1		1	1	13
Apr					5	9	2	7	1	1		1		5	1	3	1		36
May			1		2	3	1	4	1	2	1	1		3		4	2		25
Jun				1		3		1	1				1					2	9
Jul			1							1		1				1	1	1	6
Aug			1		5	6	1	2	1	2	1	2	3	3			1		28
Sep	1				4	5	8	3	2	2	3	3	3	2	5	2	6	2	51
Oct				3	9	14	4	2	1	3	4			3	1	5	1	5	55
Nov				4	4	5	5	1		2		1	1	4	2		1		30
Dec	1			3	1	6	1			1		1							14
	2	2	3	11	31	53	28	23	7	15	11	11	8	22	18	12	18	8	283

- West Cornwall
- West Penwith North
- Skomer



S2139 Big heart back heart

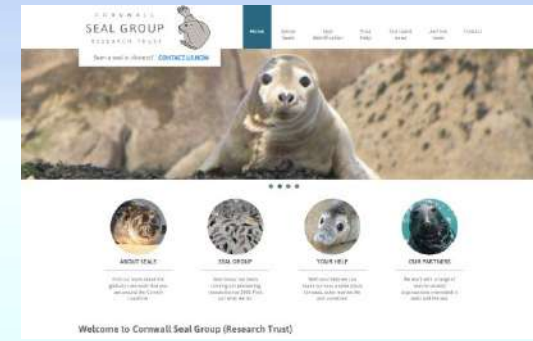
2017RRR LIZ1261 Locket



Date	Location general	Recorder
12/10/17	Lizard South	Alec and Enid Farr and Terry Thirlaway
12/10/17	Lizard South	Alec and Enid Farr and Terry Thirlaway
13/10/17	Lizard South	Alec and Enid Farr and Terry Thirlaway
13/10/17	Lizard South	Alec and Enid Farr and Terry Thirlaway
14/10/17	Lizard South	Alec and Enid Farr and Terry Thirlaway
14/10/17	Lizard South	Alec and Enid Farr and Terry Thirlaway
15/10/17	Lizard South	Alec and Enid Farr and Terry Thirlaway
15/10/17	Lizard South	Alec and Enid Farr and Terry Thirlaway
16/10/17	Lizard South	Alec and Enid Farr and Terry Thirlaway
26/02/18	West Cornwall	Sue Sayer and Kate Hockley
08/03/18	West Cornwall	Sue Sayer Kate Hockley and Alison Shearer
15/03/18	West Cornwall	Sue Sayer and Kate Hockley

Hearing about us

- Articles – CWT, IOS N&T, Linking the Lizard
- Websites
- Facebook
- Online forums – CBWPS, DBWPS
- Signs
- Clifftop chats
- Third party word of mouth
- Email or monthly meetings
- Talks and presentations



Communicating success

- First contact is most important
- Acknowledge and feedback
- Take and give – stories, information, leaflets, action
- Provide new opportunities to enjoy marine environment
- Communicate action and success
- Celebrate and credit contributions and achievements



Approach to volunteers

- Genuine personal interest we are all amazing:
 - back stories
 - plethora of skills
 - motivation and dedication
- Anything is better than nothing
- Appreciative and grateful
- Open to challenging feedback
- Engage today and work with tomorrow



Sustaining

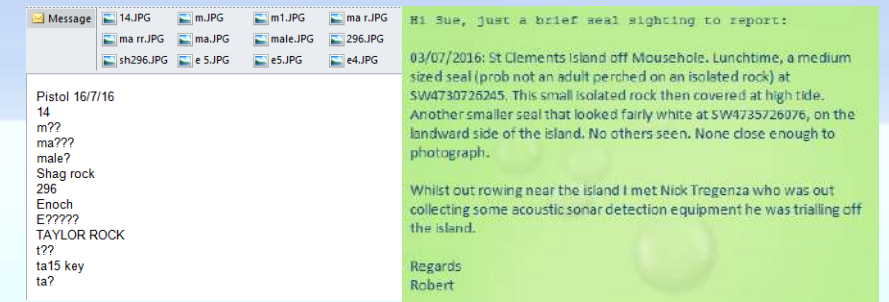
Getting money for the things that:

- Inspire local people to join the team
- You want to do that cost money

Increase your experience, skills and credibility

Data characteristics

- Face value, but robust high quality
- Any format that suits – time and skill level
- Customisation – one size does not fit all
- Validation & moderation – triple check & photos
- ID retrospectively independently verifiable
- Scientific validity of citizen science
- Big picture, summary, connectivity

[illegible]

Organisational philosophy

- Small is beautiful
 - Organisational structure
 - Fast reactivity
- Enthusiastic optimism and holistic approach
- Collaboration with relevant organisations
- Integration not duplication
- Open and transparent
- Complicated – mistakes, exceptions, grey areas
- Finish and deliver
- People are more important than data
- Value of individual – person and seal!



Valuing people



- Emotionally intelligent
- United by shared values
- Recognise and value differences – learn more
- Power of the connected team
- Update in the light of our shared experience
- Fit for purpose training (chats, surveying, IT, GIS)



Personnel philosophy

- To be inspiring
- Lead by example and role model
- Honest with integrity, still at the 'chalk face'
- Self taught lifelong learners – constantly expanding & cascading intellectual capacity (CC, UoE, others)
- Consistent – one rule for us all
- Surprise, delight and enjoy
- Over deliver



Are these seals friends?

Earlier this summer Dave McBride (our Isles of Scilly boatman) told us about two young seals that he had encountered during a family snorkel. Whilst lots of seals put in an appearance, two of the most playful ones had rear flipper tags and despite the seals' speed and agility in the water, Dave managed to read the unique tag numbers 069 and 071. Each year the Cornish Seal Sanctuary use a different colours for their flipper tags to make identifying the seals slightly easier. Tags numbered 069 and 071 belong to two young male seals – Shrek and Hulk.

Shrek (069) was rescued by British Divers Marine Life Rescue from Pendeen on the north Cornish coast on 02/01/15 being underweight and carrying a few small injuries. After taking to eating fish rather well, Shrek soon progressed and was released back into the wild just 113 days later in St Ives Bay.

Hulk (071) was rescued just a week later on 09/01/15 from Widemouth Bay near Bude much further up the north Cornish coast and in a similar state to Shrek. The two seals were released together, but Hulk has been seen twice since then resting on a beach in West Cornwall 11/05/15 and 25/05/15. Just over a year later he appears to have met up with his old pal from the Seal Sanctuary for a vacation to the beautiful Isles of Scilly! It does make you wonder – did they recognise each other?





Great local partnership teamwork

We couldn't do it without our team!

- BDMLR
- CSS
- Wildlife Trusts (CWT, IOSWT, DeWT, DoWT, NWT)
- RSPCA
- Local Marine/Wildlife/Community Groups
- Local Mammal Groups
- SW Colleges and Universities
- ...and every single one of our utterly amazing volunteers!





Media coverage

A lot of requests from TV companies for our expertise:

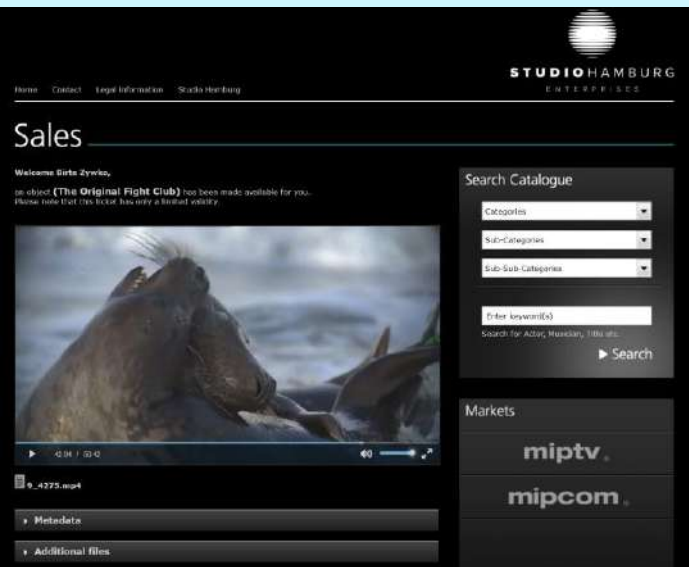
RAW (Chris Packham)

National Geographic (Fight club)

National News (Seal rescue crisis)

RAW (Marine plastics)

Autumn and Springwatch





NATURAL
ENGLAND

Funding



- No ongoing overheads / long term commitments
- Fundraising – adoptions, merchandise and events
- Funding from:
 - University of Exeter
 - IoS AONB x 3
 - Natural England x 5
 - MERIFIC
 - Wave Hub x 3
 - World Animal Protection x 2
 - Sir Paul McCartney
 - Patagonia x 3
 - Sea-Changers x 2
 - Tesco's
 - Waitrose
 - Postcode Lottery Postcode Local Trust



Tesco Bags of Help
Waitrose
Community Matters

Securing a regional network

Making a difference

Researcher, network manager to strategic leader

Reputation

Leadership

Succession



Third party affirmation Future generations

Patron Gillian Burke

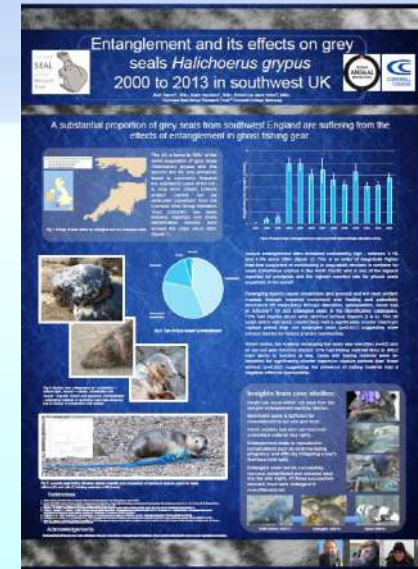
Cornwall Mammal Group Award

‘Certificate of recognition for the study, understanding and promotion of mammals in Cornwall’

My first wild seal sighting Francesco

Reputation is key

- Leeny et al; Allen et al; Sayer & Hockley NECR103
- European Cetacean Society Conference
 - Holland
 - Germany
 - Ireland
- SMRU – Scotland
- World Animal Protection – Miami
- Society of Marine Mammalogy Conference
 - San Francisco
 - Halifax Nova Scotia
- Numerous internal reports on key sites
- Sayer et al 2018 journal paper in review



Natural England Commissioned Report NECR103

Monitoring grey seals (*Halichoerus grypus*) in the Isles of Scilly during the 2010 pupping season (August to December 2010)

Entanglement of grey seals *Halichoerus grypus* at a haul out site in Cornwall, UK

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^b Cornwall Seal Group, Copperleaf Cottage, Phillack Hill, Phillack, Hayle, Cornwall TR27 5AD, UK.

^c British Divers Marine Life Rescue, Lime House, Regency Close, Uckfield, East Sussex TN22 1DS, UK.

^d Centre for Ecology and Conservation, School of Biosciences, University of Exeter, Cornwall Campus, Penryn, Cornwall TR10 9EZ, UK.

ARTICLE INFO

Keywords:
Halichoerus
Grey
Seal
Net
Entanglement
Debris

ABSTRACT

Entanglement in marine debris has been internationally recognised as a potential threat to marine species. Sightings records and a photo identification catalogue from a haul out site in southwest England were used to establish entanglement records for grey seals *Halichoerus grypus*. Between 2004 and 2008 the annual mean entanglement rates varied from 3.6% to 5%. The maximum recapture period for entangled seals compared to paired control seals was significantly less ($p = 0.045$) suggesting an increased mortality rate for affected seals. Of the 58 entangled cases in the catalogue, 64% had injuries that were deemed serious. Of the 15 cases where the entangling debris was visible, 14 were entangled in fisheries materials. The entanglement reported at this site could indicate a high rate of mortality and should be monitored carefully. On a more immediate level, entanglement represents a welfare issue for the affected animals.

2017

Protecting seals is all about putting people first!

Volunteer driven

2017 alone

- 3945 seal records (11 every day)
- 101,017 photos
- 285 volunteers
(including 45 individual systematic surveyors)
- 4 systematic team surveys
- 271 locations across Cornwall, Devon and the Isles of Scilly

CSGRT personnel

Trustees: Sue Sayer, Kate Hockley Dan Jarvis, Phil Knight, Richard Morton

Patron: Gillian Burke

Steering Group: Sue Sayer (Chair), Kate Hockley (Treasurer), Dan Jarvis (Secretary)

Scientific Advisors: Bex Allen, Dr Lucy Hawkes and Dr Matthew Witt

Veterinary Advisors: James Barnett, Katie Lewis and Darryl Thorpe

Senior Surveyors: Kate Hockley and Sue Sayer

Ghost Gear Data Manager: Kate Williams

Rope Safety Advisors: Chris Howell and Phil Knight

Cornwall Seal Sanctuary Liaison: Claire Fraser

Cornwall Birds Liaison: Mark Grantham

Cornwall Wildlife Trust Liaison: Abby Crosby and Claire Lewis (Looe Island)

National Trust Liaison: Cat Lee (Lizard) Richard Pope (West Cornwall) and Steve Sudworth (West Cornwall)

Post Mortem Liaison: Kelly Astley, James Barnett and Dan Jarvis

Personal and Professional Assistants:

- Katie Bellman
- Kerenza Carne
- Haley Dolton
- Charlotte Hawkins
- Sarah Millward
- Gavin Parker
- Tina Robinson
- Kate Williams

Affiliated seal friendly boat operators:

- Atlantic Diver
- Tiburon Boating

PIP Survey Coordinators:

- Bex Allen (STAPIP)
- Martin Gregory (LISPIP)
- Sarah Millward (POLPIP)
- Tina Robinson (POLPIP)
- Derek Spooner (LISPIP)
- Sue Sayer (CASPIP)
- Mike Taylor (STAPIP)
- Dave Williams (All boat PIPS)

PIP Report Writers

- Jasmin Gregory (LISPIP)
- Martin Gregory (LISPIP)
- Sarah Millward (POLPIP)
- Sue Sayer (all)
- Mike Taylor (STAPIP)
- Jen Tyler (NOCPIP)
- Ross Wheeler (CASPIP)

IT and Data Consultant:

- Dan Murphy
- Jeff Loveridge

Photography Consultant:

- Adrian Langdon
- Dan Murphy

Amazement and Discovery Ranger: Marion Beaulieu

Bird Advisor: Dave Williams

Web Manager: Edd Hurst

BDMLR Liaison: Dan Jarvis and Dave Jarvis

RSPCA West Hatch Liaison: Kirsten Larcombe

ID Area Coordinators

- Marion Beaulieu (West Penwith North)
- Katie Bellman (Pentire)
- Jean Lawman (Coastwatch Gwennap)
- Jan Loveridge: Mounts Bay
- Jenny Simpson (Padstow Bay)
- Rob Wells (St Austell Bay and Roseland)

ID Team

- Marion Beaulieu: West Penwith North
- Katie Bellman: West Pentire
- Teresa Boulden: South Coast sites
- Terry Carne: Trevose
- Alec and Enid Farr: Lizard
- Dave Jenkins: North Devon
- Cat Lee: Lizard West
- Claire Lewis: Looe Island
- Jan Loveridge: Mounts Bay
- Marine Discovery: Mounts Bay
- Newquay Sea Safaris: Newquay Harbour
- Alison Shearer: South Devon
- Jenny Simpson: Padstow Bay
- Terry Thirlaway: Lizard
- Rob Wells: St Austell Bay and Roseland
- Peter Welsh: Porthtowan
- Kath Wherry: Roseland
- Kate Williams: North Devon

Student Team:

- Catherine Barry (Cornwall College Newquay)
- Katie Bellman (Cornwall College Newquay)
- Darby Bonner (University of Portsmouth)
- Owen Exeter (University of Exeter)
- Billy Heaney (University of Exeter)
- Hannah Hughes (Cornwall College Newquay)
- Chris Kerry (University of Exeter)
- Kimberley Lloyd (Plymouth University)
- Ben Watkins (Falmouth University)



Survey Team: Numerous amazing and inspiring volunteers around Devon, Cornwall and the Isles of Scilly who systematically survey their local patch at least once a month sending in data and photos.

Ghost gear in Cornwall, UK

2015 to 2016

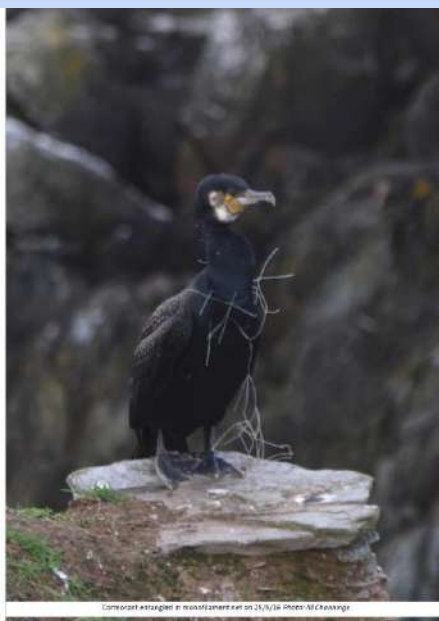
Sue Sayer and Kate Williams



Grey seal with ghost gear cast just before 8:00am

Report compiled November 2017

www.cornwallsealgroup.co.uk



Cormorant entangled in monofilament on 25/10/16 (photo: M. Chavasse)



International

International reputation and influence

World Animal Protection

(OSPAR, San Francisco and Halifax Nova Scotia)

Global Ghost Gear Initiative (Webinar)

Pinniped Entanglement Group
(Conference calls and newsletters)

One percent for the planet network



**FOR THE
PLANET®**

— NONPROFIT PARTNER —

SUCCESS STORIES

Flipper the grey seal gets lucky! (Cornwall, England, UK)
By Sue Sayer



Lucky Flipper (by Sue Sayer CSGRT)

Last week Cornwall Seal Group Research Trust's (CSGRT's) Sue and Kate went out on one of their twice weekly surveys of the West Cornwall seal complex. Usually at this time of year, seals are hauled on the offshore island, but the rough seas and cooler temperatures have obviously confused the seals, leaving Sue and Kate surprised to find a good number hauled on the mainland site instead. As Kate began counting, aging and sexing the seals, Sue was taking photos to enable the individual identification of each seal. Suddenly they spotted an extra seal lying on its own at the back of the beach. Although nearly invisible, as Sue zoomed the camera in, she was saddened to discover that the young male seal (one of last year's pups) was actually entangled in a long piece of monofilament net. This was cutting in deeply around its neck and there was no doubt that the seal would not survive without being rescued.

Whilst rescues are not always possible given weather, sea and tide conditions, combined with how close the seal is to the sea and the number of other animals present, Kate and Sue were hopeful that a rescue might just be possible. They rang British Divers Marine Life Rescue's hotline number (01825 765546) and their Welfare Development and Field Support Officer Dan Jarvis was soon on the scene and agreed that a rescue might be possible. A rope safety team of Chris Howell and Phil Knight were mobilised, while Tamara Cooper, Animal Care Curator at the Cornish Seal Sanctuary, arrived to assist as well. As a crowd gathered to watch, the rescue team made their way down the steep cliff.



Abseiling down cliff (by Kate Hockley CSGRT)

Dan said "we have to go down the cliff as stealthily as possible to avoid alerting the seals to our approach, otherwise they will head back into the sea before we get anywhere near them and we may never get another chance to rescue the victim. Luckily our combined experience of this very technical type of operation, also involving a short abseil of a sheer section at the bottom of the cliff, went undetected by the seals, allowing Tamara, Sue and myself to get on to the far side of the beach. We then had to creep around the back of the cove to remain out of their sight until we were close enough to make the final dash to capture our target seal."

2018

Seal Squad

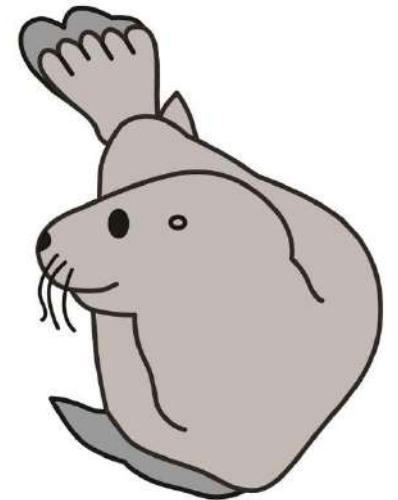
Xplorer Programme Roadshow

- SSXPR -



Thanks to **players of**
People's Postcode Lottery
CSGRT was awarded **£19,300** by
the **Postcode Local Trust**
to fund this project!!

Cornwall
SEAL
Group
Research
Trust



Why the need for the project

- Over 40 people send photos on a regular basis
- Only about 10 people do their own photo albums and ID confirmation
- More scientific reports and papers:

Bigger evidence base to inform marine management and protection

[illegible]



CSGR

Seal Group Research Trust

Passionately protecting Cornwall's precious marine ecosystems



As the tide comes in, seals 'bask' to keep their sensitive skin (blubberless flippers) cool and floppy) out of the cold water before exiting their way slowly into the sea.



Whilst basking, a seal uses its muscles to open its usually closed nostrils. After a final breath out it sinks vertically into CSGR's build up activates a 'float' before exiting their way slowly into the sea.



Seals sleep in the sea – logging (horizontally) or bottling (vertically).



As soon as their food gets underwater, their heart rate drops from 120 to a depth a minute before they slow to the sea bed to feed.



Seals routinely dive to 220m for around 30 minutes.



Young seals (with a lot of growing to do) need to find ways to stand any chance of survival. This one 'Lucky Rigger' was rescued by CSGR, British Ocean Marine Life Rescue and the Cornwall Seal Sanctuary.



CSGR rescued 20 different entangled seals at the same time on a single beach, some in need of treatment and others in transit.



A DERA report estimated that 310 seals were bycaught around the world in 2014. This is the highest rate of entanglement for any protected seal species anywhere in the world.

Seals find their food using 42,883 pairs of whiskers and 40 pairs of eyespots. Every whisker has 1500 nerve endings. It's like a face more sensitive than your fingertips. Their amphibious nature is adapted to live as well as an underwater.



Seals can swim at 20km an hour for short periods and travel 100km a day. One seal can swim the whole of the Cornish coast in just 4 days.



Seals eat more sandbards than any other species by inflicting their necks, snatching and sucking. They have 14 interlocking teeth with no grinding motion.



Highly intelligent, curious and confident in the sea, seals investigate everything, including lost fishing gear. Their gular expansion is to grip and this wraps them in lethal constrictors.



CSGR recorded 20 different entangled seals at the same time on a single beach, some in need of treatment and others in transit.



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Adapting to land and sea

Research Communicate Engage Conserve

- Grey seals:**
A southwest speciality species

Grey seals are globally one of the most iconic and popular of all seal species. In the UK, they are also known as grey ponies.

Seal Group Research Trust is a dedicated seal conservation charity (number 1030394). We are a 501(c)(3) non-profit organisation. All our pioneering work is 100% environmentally motivated. www.sealgroupresearch.org.uk

Seals need your help!
Enjoy our globally rare charismatic species
Animate from a distance
Leave seals at and where you find them
Send sightings to info@sealgroupresearch.org.uk

CSGRT

Passionately protecting Cornwall's precious marine ecosystems

Learn seals and enjoy you find them. (Don't forget about the water birds too!)

Top tips...help!

Seals can swim over 100 miles in a day. When they come ashore they don't have a warm up space. They are usually very tired and need to rest. They are also very vulnerable to predators.

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- Keep children and other animals away from seals
 - Don't touch or feed seals
 - Don't throw anything away
 - Don't leave any food or drink around
 - Don't leave any rubbish around
 - Don't leave any vehicles around
 - Don't leave any boats around
 - Don't leave any structures around
 - Don't leave any equipment around
 - Don't leave any materials around
 - Don't leave any tools around
 - Don't leave any parts around
 - Don't leave any components around
 - Don't leave any accessories around
 - Don't leave any peripherals around
 - Don't leave any cables around
 - Don't leave any connectors around
 - Don't leave any interfaces around
 - Don't leave any ports around
 - Don't leave any sockets around
 - Don't leave any slots around
 - Don't leave any openings around
 - Don't leave any holes around
 - Don't leave any gaps around
 - Don't leave any cracks around
 - Don't leave any fissures around
 - Don't leave any crevices around
 - Don't leave any indentations around
 - Don't leave any depressions around
 - Don't leave any elevations around
 - Don't leave any protrusions around
 - Don't leave any extensions around
 - Don't leave any additions around
 - Don't leave any alterations around
 - Don't leave any modifications around
 - Don't leave any improvements around
 - Don't leave any enhancements around
 - Don't leave any upgrades around
 - Don't leave any updates around
 - Don't leave any revisions around
 - Don't leave any changes around
 - Don't leave any corrections around
 - Don't leave any fixes around
 - Don't leave any patches around
 - Don't leave any workarounds around
 - Don't leave any hacks around
 - Don't leave any shortcuts around
 - Don't leave any workarounds around
 - Don't leave any hacks around
 - Don't leave any shortcuts around

Please report disturbance you see to the Cornwall Marine and Coastal Code Group on 01326 20120.

SEALS

SEAL GROUP RESEARCH TRUST

SEAL GROUP RESEARCH TRUST

SEAL GROUP RESEARCH TRUST

SEAL GROUP RESEARCH TRUST

1 START 2 3 4 5 6 7 8

SEAL GROUP RESEARCH TRUST

9 10 11 12 13 14 15

SEAL GROUP RESEARCH TRUST

16 17 18 19 20 21 22

SEAL GROUP RESEARCH TRUST

SEAL GROUP RESEARCH TRUST

SEAL GROUP RESEARCH TRUST



Septimus 2.4m articulated seal skeleton



We have some very grand plans for Septimus that will require more funding – possibly through the sponsorship of bones!

- 3d digitising
- 3d scale modelling and 3d printing (to sell limited edition scale models)
- 3d body reconstruction video for anatomical education
- Virtual reality tour and interactive activity inside Septimus for anatomical education of all ages
- Animation about Septimus' life, habitats, species etc
- Marine capsule for 2050 and 2100
- Septimus celebrations at the Natural History Museum (and/or National Marine Aquarium) in 2050 and 2100

By 2019: Keep us FREE

- A future-proofed organisation with 11 self sufficient hubs doing all aspects of the ID process
- Have more interactive and exciting resources for everyone to enjoy at various events
- Be able to have a long term Amazement and Discovery Ranger



Top tips 1



- Maintain 'chalk face' in use of data
- Encourage people to promote themselves
- Accept it is impossible to always get it right
- Every rule has exceptions
- If in doubt, cut people in not out
- Understand your limitations – prioritise to aims



Acknowledgements

Volunteers eagerly joined a rapidly expanding network of 'ghost gear recorders' enabling land based survey coverage of most of Cornwall's 700km of coastline. Hardy souls also volunteered to brave long days at sea especially during the winter months to record ghost gear! Without them, this project would not have been possible.

Rebecca Allen, Annie, Rob Arnold, Kelly Astley, Louise Austin, Tim Bain, Catherine Berry, Eliane Bastos, Gemma Beckett, Lynda Bolding, Ian Boreham, Mike Boyce, Steve Brodewell, Danielle Bussell, Lindsey Butterfield, Pippa Burrows, Caitlin, Michaela Channings, Chrissie, Christine, Claire, Liz Clark, Niki Clear, Sandie Coombes, Amy Copping, Christie Corbett, Zoe Courchene, Abby Crosby, Ann Davies, Sarah Deere-Jones, Lauren Delacy, Christina Dixon, Simon Dolphin, Katie Drake, Paula Evans, Alec Farr, Erik Farr, Mike Fletcher, Geoff Gemble, Margaret Gardner, Gabi Gilkes, Jasmine Goodier, Mark Grantham, Tony Greenbank, Laura Guy, Elliot Hall, Ernest Hall, Vic Hall, Mary Hallett, Joanne Harris, Paul Harry, Julie Hatcher, Neil Hembrow, Les Hinks, Kate Hockley, John Hepburn, Charles Hood, Gus Hordley, Rebecca Hughes, Edd Hurst, Ian Illingworth, Nigel Ingram, Elise Neve, Dan Jarvis, Dave Jarvis, Lesley Jarvis, Annie Jenkin, Amy Jones, Julie, Lyn Kent, Jonathan Kersley, Kyle, Adrian Langdon, Cat Lee, Claire Lewis, Annabelle Lowe, Ben Lowe, Chris Lowe, Jan Loveridge, Jeff Loveridge, Abigail Malden, Anne Matthews, Pat May, John Meakin, Dave McBride, Libby McBride, Malcolm McKenzie, Kev Metcalfe, Matt Mitchell, Taliesyn Mitchell, Richard Morton, Sue Morton, Jocelyn Murgatroyd, Mark Nason, Bob Nicholls, Ellie Nuthall, Nigel, Andrea O'Shaughnessy, Annette Petersson, Nick Pickles, Jane Pickles, Sarah Pilgrim, Pippa, Paul Pocock, Emma Porter, Julian Robertson, Rory Ross, Anne Runnells, Becky Sanderson, Lynne Small, Wendy Sargeant, Christine Spooner, Mike Stephens, Terry Threlkney, Dave Thomas, Steve Treuheit, Alice Trevisal, Jen Tyler, Shan Uglow, Nick Upton, Mo Usher, Caz Waddell, Claire Wallerstein, Rob Wells, Peter Welsh, Heidi Westbrook, Kath Wherry, Justin Whitehouse, Faye Whitman, Tracey Williams, Joanne Wilson, Kyle Wingfield, Jane Wiltshire, Steve Woods, Laura Workman and Inge Wusterhausen.

Atlantic Diving / Newquay Sea Safaris – for providing boats at a heavily subsidised rate and at short notice to make the most of short weather and sea condition windows!

Rebecca Allen and Mike Taylor – STAPIP coordinators

Sarah Millward and Tina Robinson – POLPIP coordinators

Martin Gregory and Derek Spooner – LISPIP coordinators

Dave Williams for providing expertise and recording bird life

Carbis Bay Crew, Cornwall Wildlife Trust, Friends of Fowey Estuary, Friends of Par Beach, Friends of Portlhar, Helford Marine Conservation Group, Looe Marine Conservation Group, Newquay Beachcombing, Newquay Marine Group, Polzeath Marine Conservation Group, Rame Peninsula Beach Care, St Agnes Marine Conservation Group, Wembury Marine Centre, Widemouth Task Force

Cornwall College for subsidising some of the STAPIP surveys

Wave Hub for funding most of the CASPIP surveys

Special thanks to World Animal Protection for core funding all of the STAPIP and POLPIP surveys and some CASPIP surveys and for commissioning this report

Huge thanks to everyone who contributed to this project whether listed above or not. You have helped to make our coastline cleaner and safer for marine life.

Top tips 2

- Keep it simple
- Try your best at all times!
- Be prepared to become addicted
- Use it or lose it (data too!)
- Individuals count
- All: statutory agencies, NGOs, public, private and voluntary
- Plan for organisational future succession, leadership & ambassadors on local patch





Thank you!

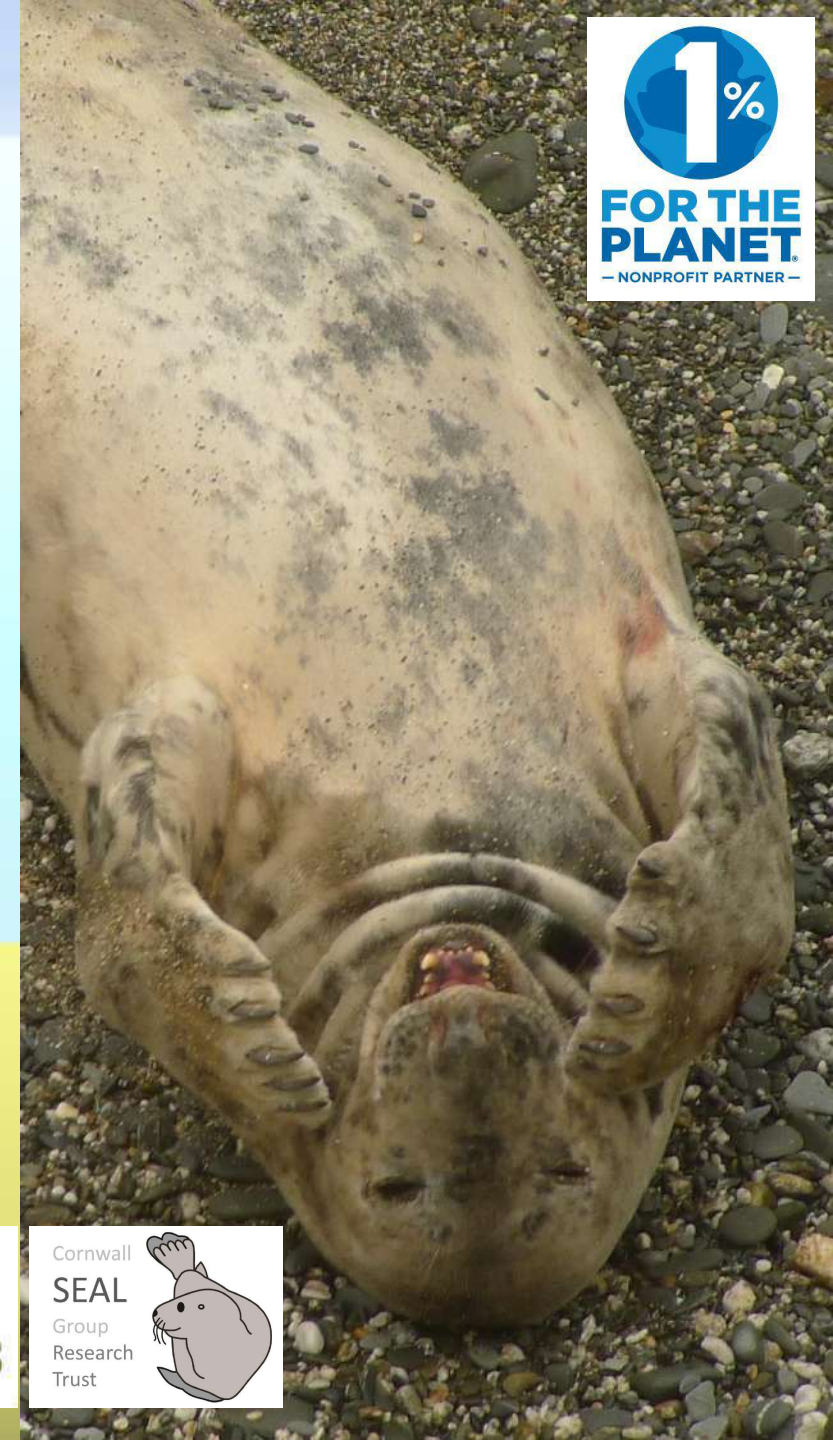
For listening!

To everyone who has ever connected with CSGRT, but particularly those who routinely give of their time to 'passionately protect Cornwall's precious marine life'.

To our trustees who give tirelessly of their time, energy and support.

My partner without whose income I could not volunteer full time!

Head space
Put people first!



Waitrose
Community Matters

