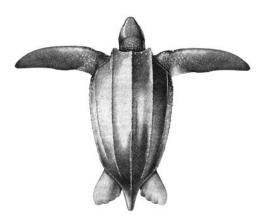


www.strandings.com

British Isles & Republic of Ireland Marine Turtle Strandings & Sightings Annual Report 2011

R.S.Penrose & L.R.Gander. February 2012





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1. SUMMARY

A total of 67 turtles were reported during the year. One green turtle, four Kemp's Ridley turtles, two leatherback turtles and one loggerhead turtle were found stranded dead. Two leatherbacks were sighted dead at sea. Fifty-one sightings of live leatherback turtles were received.

Live turtles (57)

Fifty-one reports received were of live leatherback turtles seen either from boats or from shore. Six live turtles sighted were unidentified. No live turtles were found stranded.

The geographical distribution of the 57 live sightings are as follows:-

14 Republic of Ireland, 8 Scotland, 17 England, 14 Wales, 0 Northern Ireland, 1 Isle of Man and 3 Offshore.

Dead turtles (10)

One green turtle, four Kemp's Ridley turtles, two leatherback turtles and one loggerhead turtle were found stranded dead. Two leatherbacks were sighted dead at sea.

The geographical distribution of the 10 dead turtles are as follows:-

2 Republic of Ireland, 2 Scotland, 4 England, 2 Wales, 0 Northern Ireland, 0 Isle of Man and 0 Offshore.

Data sharing

2010 TURTLE data has been uploaded to the NBN Gateway http://www.nbn.org.uk/

TURTLE record totals

The current total of 2529 is broken down thus:

1273 Republic of Ireland, 374 Scotland, 561 England, 228 Wales, 39 Northern Ireland, 32 Isle of Man, 12 Channel Islands and 10 Offshore.

2. INTRODUCTION

In 1990, the 'Collaborative UK Marine Mammal Strandings Project' was initiated and part-funded by the UK Department of the Environment (now Defra). The project involves detailed pathological and other investigations of stranded marine mammal carcasses (mostly cetacean) from UK waters. It forms part of the Department's international obligations towards conservation agreements, including the 'Agreement on the conservation of Small Cetaceans of the Baltic and North Seas' (ASCOBANS).

Detailed pathological investigations of stranded marine turtles were included in 2001 and the systematic recording and occasional examination of stranded basking sharks began in 2007. The project is now named the 'Cetacean Strandings Investigation Programme' (CSIP, <u>www.ukstrandings.org</u>) (see **Figure 1**.).

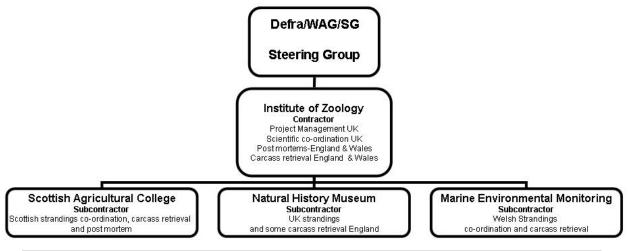


Figure 1. Current Technical Co-ordination of the Cetacean Strandings Investigation Programme (CSIP).

2.1 The UK Turtle Implementation Group.

In 1999, English Nature, now Natural England, published the UK Marine Turtles Grouped Species Action Plan (SAP) on behalf of the UK Biodiversity Group. The SAP is part of the UK Biodiversity Action Plan and aims to enhance marine turtle conservation in UK waters and in the UK Overseas Territories as well as raise awareness and knowledge of their occurrence, legal protection and measures to enhance conservation amongst marine users and the general public. The SAP is being implemented by a group of organisations led by joint lead partners the Marine Conservation Society (MCS) and the Amphibian & Reptile Conservation Trust¹ (ARC). The contact agency is Scottish Natural Heritage (SNH). The Turtle Implementation Group (TIG) consists of the following organisations:-

- Amphibian & Reptile Conservation Trust¹ is an authority on reptile and amphibian issues and was the Lead Partners or joint Lead Partners for all five of the reptile and amphibian Action Plans within the UK BAP <u>www.arc-trust.org</u> Contact: *Tony Gent*, 01202 391319
- Countryside Council for Wales (CCW) The Countryside Council for Wales is the Government's statutory advisor on sustaining natural beauty, wildlife and the opportunity for outdoor enjoyment in Wales and its inshore waters. Contact: *Tom Stringell*, 01248 385500
- The **Department of Environment, Food and Agriculture (DEFA)** is the Isle of Man Government's department responsible for species protection and site designation under the Manx Wildlife Act 1990. The Department is also the key Isle of Man contact for strandings and sightings of sea turtles.
- Contacts: Laura Hanley & Dr Fiona Gell, 01624 685835 www.gov.im/defa
- Joint Nature Conservation Committee (JNCC) is the public body that advises the UK Government and devolved administrations on UK-wide and international nature conservation. Contact: *Kelly Macleod*, 01224 266584

¹ Formally Herpetological Conservation Trust (HCT).

- Marine Conservation Society (MCS) is the UK charity dedicated to the protection of the marine environment and its wildlife. MCS was the joint Lead Partner of the Marine Turtles Grouped Species Action Plan and coordinates the TIG. <u>www.mcsuk.org</u> Contacts: *Sue Ranger or Peter Richardson, 01989 566017*
- Marine Environmental Monitoring (MEM) is a member of the Defra "UK Cetacean Strandings Investigation Programme", www.strandings.com www.ukstrandings.org MEM also manages 'TURTLE' the British Isles & Republic of Ireland database holding both records of sightings and strandings of marine turtles dating back to 1748. Contact: Rod Penrose, (Reporting telephone No. 01239 683033) rodpenrose@strandings.demon.co.uk
- **MEDASSET**, founded in 1988, is an international environmental NGO registered as a charity and private company in the UK and as a Non Profit Organisation in Greece, working for the conservation of sea turtles and their habitats throughout the Mediterranean, through scientific research, environmental education, political lobbying and awareness-raising. Contact: *Lily Venizelos*, + 30 210 3613572 E-mail: medasset@medasset.org
- National Parks and Wildlife Service (NPWS), part of the Department of Arts, Heritage and the Gaeltacht, provides the legislative and policy framework for the conservation of nature and biodiversity in the Republic of Ireland. It also oversees its implementation, based on good science, with particular emphasis on the protection of habitats and species, through the designation and conservation of sites under EU Directives and national legislation. Contact: *Dr Ferdia Marnell*, +3531 8883290.
- Natural England (NE) is the Government agency that champions the conservation of wildlife and natural features throughout England.
 - Contact: Paul Edgar, 0300 060 1324.
- Northern Ireland Environment Agency (NIEA), is the agency responsible for the implementation of government environmental policy in Northern Ireland. Its aim is "to protect and conserve the natural and man-made environment and to promote its appreciation for the benefit of present and future generations". Contact: *Gary Burrows*, 028 9056 9571 or 028 7082 3600.
- Queen's University Belfast: Dr Jonathan Houghton works on the foraging ecology and migratory behaviour of marine turtles with a particular focus on the predator prey interactions of leatherback turtles and gelatinous zooplankton (jellyfish). Contact: Dr Jonathan Houghton, 028 90972297 j.houghton@qub.ac.uk
- Scottish Natural Heritage (SNH) is a government body responsible to the Scottish Government and Scottish Parliament. SNH promotes the care, improvement, responsible enjoyment, understanding, appreciation and sustainable use of Scotland's natural heritage. SNH is the contact government point for the Marine Turtles Grouped Species Action Plan. Contact: *Laura Clark*, 01463 725237.
- The Wildlife Trusts is a partnership of 47 Wildlife Trusts, across the UK, caring for more than 2,400 nature reserves. It campaigns for the protection of wildlife and invests in the future by helping people of all ages to gain a greater appreciation and understanding of nature. The Wildlife Trusts Basking Shark Project contributes at sea survey data, from the west coast of Britain on an annual basis. Contact: Dr Nick Tregenza, 01736 711783.
- University College Cork *Professor John Davenport* is Emeritus Professor of Zoology. He has worked on most species of sea turtles, but especially leatherbacks, since the early 1980s, conducting fundamental studies on their physiology and biomechanics. He is currently linked to turtle conservation in Bermuda, and conducts turtle research with colleagues in Nova Scotia, France and Hawaii. Contact: *Professor John Davenport*, +353 21 490 4051 or Dr Tom Doyle +353 (0) 21 4703119.
- University of Exeter, <u>Cornwall Campus</u> hosts the Marine Turtle Research Group that carries out fundamental and applied research on marine turtles in British waters, the Mediterranean, West Africa and throughout the UK Overseas Territories. Contacts: *Dr Brendan Godley & Dr Annette Broderick*, 01326 371 861.

3. MATERIALS AND METHODS

Contact details vary for different parts of the British Isles & Republic of Ireland and the Turtle Code should be consulted for the relevant contacts.

In **England & Wales** a 24 hour answer phone **01239 683033**, is interrogated at regular intervals. A message requests callers to leave details of the stranding or sighting and location, along with their name and contact phone number, so they may be reached if confirmation of details are required. A dedicated email address to receive digital photographs has been created <u>info@strandings.demon.co.uk</u> (If the stranding is a live-stranding a message on the answer-phone informs the caller to contact the RSPCA immediately. see 3.1).

For **Scotland** all records should be reported to Scottish Natural Heritage on **01463 725237** with dead strandings being reported to the Scottish Agricultural College **01463 243030**. Live strandings and entanglements should be reported to the SSPCA on **03000 999 999**.

For **Northern Ireland** all records of live or dead turtles should be reported to the Portrush Coastal Zone Centre on **028 7082 3600**.

In the **Republic of Ireland** all records should be reported to Dr Tom Doyle on **353-(0)21-4703119** (work) and **353-(0)87 1354938** (mobile). Sightings & strandings can also be reported online in the Republic of Ireland at <u>www.turtle.ie</u>

UK turtle sightings and strandings can also be reported using the UK Turtle Code online at <u>www.euroturtle.org/turtlecode</u>

On the **Isle of Man** all marine animal strandings should be reported to **DEFA** on **01624 685835** or directly to either Dr Fiona Gell **07624 473753** or Laura Hanley **07624 483942**. If a live seal becomes stranded call the MSPCA on **01624 851672**.

The following criteria are applied: -

3.1 Live Animals

(Condition code 1)²

In 1994 the Marine Animal Rescue Coalition (MARC) was formed. This consists of all the major animal welfare and conservation bodies involved with marine mammals/turtles in the UK. It has been agreed that in the case of a live-stranding the first point of call would be the RSPCA (England & Wales), SSPCA (Scotland) as they support a <u>manned</u> 24-hour emergency phone. The RSPCA/SSPCA would then contact the relevant organisations, Marine Environmental Monitoring etc.

Contacts and advice can be found in the UK Turtle Code at www.strandings.com/Turtlepage.html

3.2 Dead Animals

(Condition code 2a extremely fresh as if just died)²

(**Condition code 2b** slight decomposition)²

(**Condition code 3** moderate decomposition)²

Health and safety precautions are followed with the animal being handled only with gloved hands. Preferably it is then taken immediately for *post-mortem* examination, but due to funding cuts in 2006 freezing is now an option until transport becomes available.

(**Condition code 4** advanced decomposition)²

(Condition code 5 mummified carcass)²

Species identified, basic measurements taken together with skin for DNA. Health and safety precautions being observed. Local Authorities then contacted for safe disposal of remains.

All live and dead marine turtles are allocated a "T0000/001" number. "T" designates the animal as a marine turtle, 0000 is the year and /001 is an individual number for each record of the same year. Records of all strandings & sightings in the British Isles & Republic of Ireland are kept by the Strandings Co-ordinator. Copies of *post-mortem* examination reports are sent from the Strandings Co-ordinator to the finder and others associated with the relevant stranding.

² Body conditions based on Kuiken, T. and Garcia Hartmann, M (1991) Proceedings of the European Cetacean Society workshop on cetacean pathology: dissection techniques and tissue sampling. ECS newsletter 17, Special issue: 39pp

4. RESULTS

The following three tables include marine turtle 'sightings' and 'strandings' reported through 2011.

Table 1.

Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
Green turtle (Chelonia mydas)	0	0	0	0	0	0	0	0	0	0	0	1	1
Hawksbill turtle (Eretmochelys imbricata)	0	0	0	0	0	0	0	0	0	0	0	0	0
Kemp's ridley turtle (Lepidochelys kempii)	0	0	0	0	0	0	0	0	0	0	0	4	4
Leatherback turtle (Dermochelys coriacea)	0	0	0	0	0	3	11	29	9	1	0	2	55
Loggerhead turtle (Caretta caretta)	0	0	0	0	0	0	0	0	0	0	0	1	1
Unidentified	0	0	0	0	0	0	2	3	1	0	0	0	6

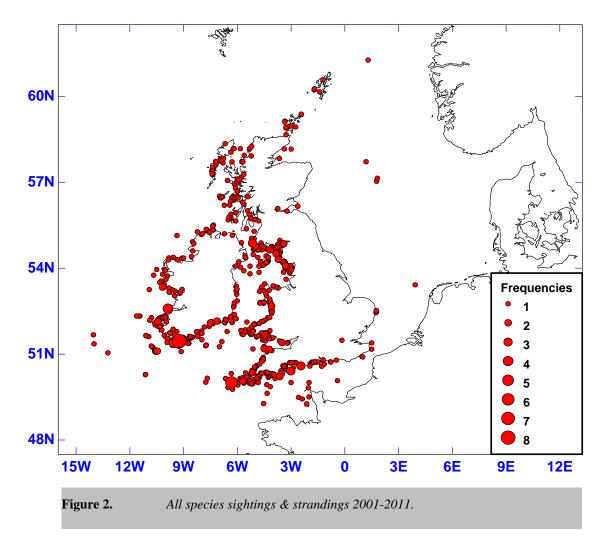
Table 2.

Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ΤΟΓΑΙ
Green turtle (Chelonia mydas)	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawksbill turtle (Eretmochelys imbricata)	0	0	0	0	0	0	0	0	0	0	0	0	0
Kemp's ridley turtle (Lepidochelys kempii)	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherback turtle (Dermochelys coriacea)	0	0	0	0	0	3	10	28	8	1	0	1	51
Loggerhead turtle (Caretta caretta)	0	0	0	0	0	0	0	0	0	0	0	0	0
Unidentified	0	0	0	0	0	0	2	3	1	0	0	0	6

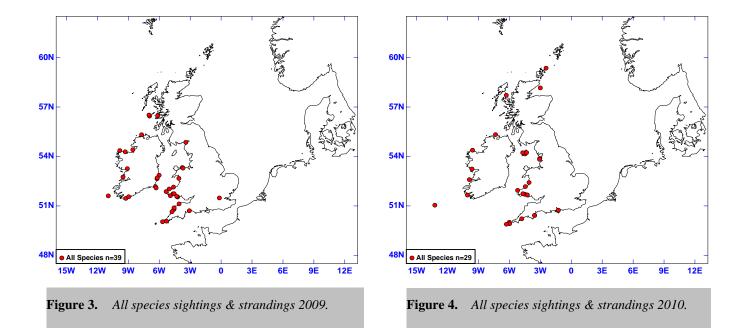
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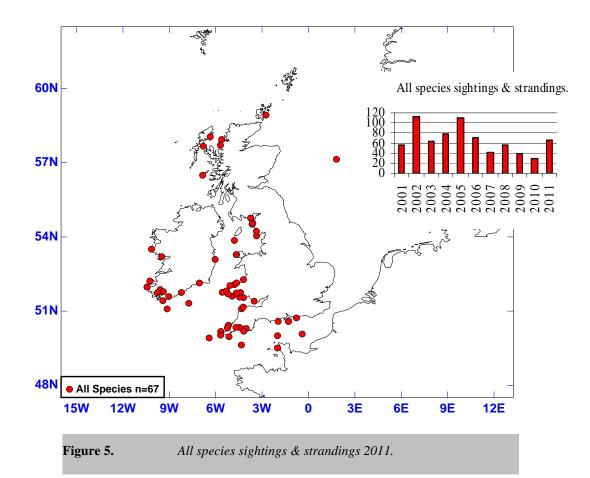
2011 Number of dead marine turtles.													
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
Green turtle (Chelonia mydas)	0	0	0	0	0	0	0	0	0	0	0	1	1
Hawksbill turtle (Eretmochelys imbricata)	0	0	0	0	0	0	0	0	0	0	0	0	0
Kemp's ridley turtle (Lepidochelys kempii)	0	0	0	0	0	0	0	0	0	0	0	4	4
Leatherback turtle (Dermochelys coriacea)	0	0	0	0	0	0	1	1	1	0	0	1	4
Loggerhead turtle (Caretta caretta)	0	0	0	0	0	0	0	0	0	0	0	1	1
Unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0
Total animals	0	0	0	0	0	0	1	1	1	0	0	7	10

The general geographical distribution of each species, strandings and sightings, are plotted on the following maps. Although the maps are generated directly from the data stored, they should be regarded as showing distribution of animals rather than giving absolute counts. While the co-ordinate system and the mapping software can theoretically differentiate between points as close as 1 metre apart, even with separations of 100 metres at the scale at which these maps are presented, some symbols may appear to overlap completely.

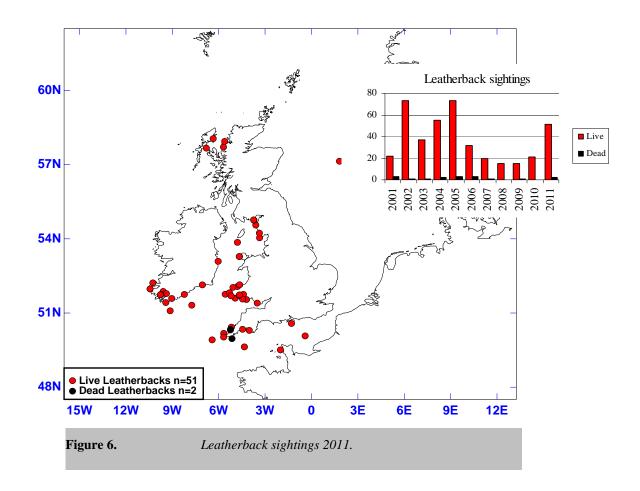


All species, sightings & strandings over the eleven year period 2001-2011 have been plotted in Figure 2.





4.1 Sightings.



No live or dead **loggerhead turtle** sightings were reported during 2011. However, 'sightings' of live loggerhead turtles have been recorded in recent years as shown in **Figure 7**.

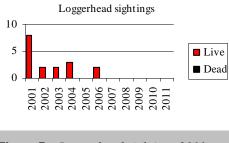
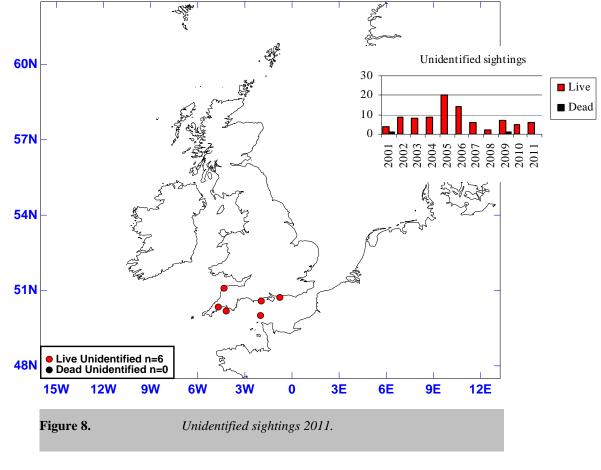
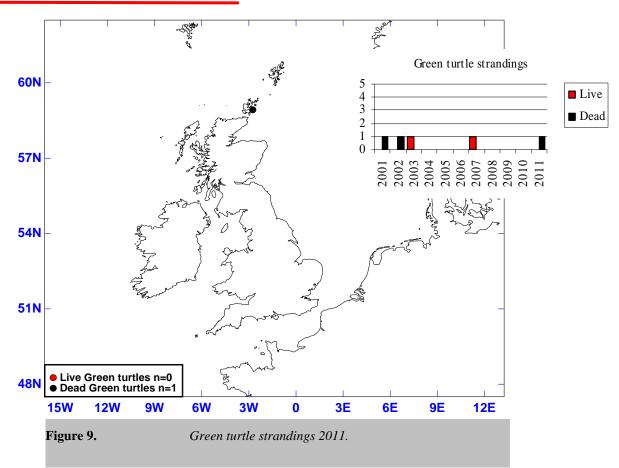


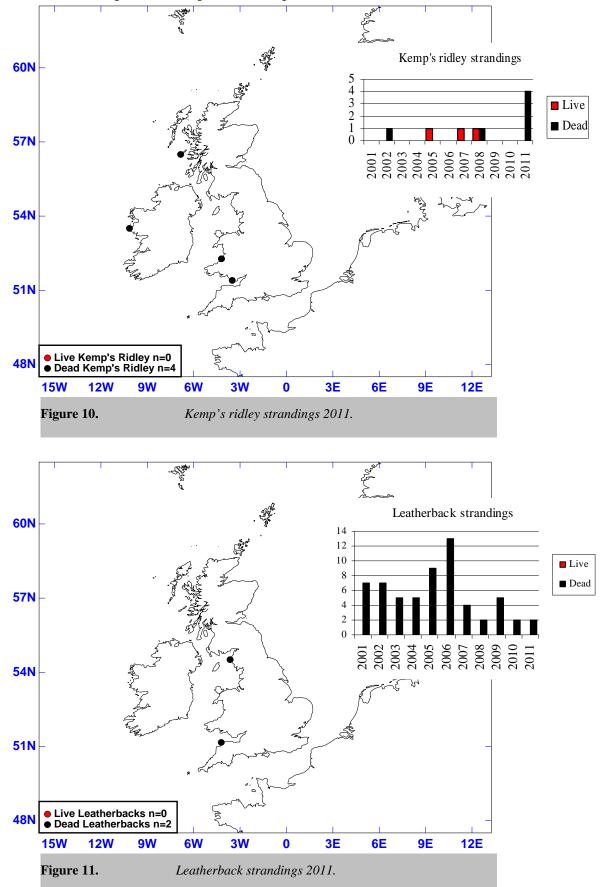
Figure 7. Loggerhead sightings 2011.

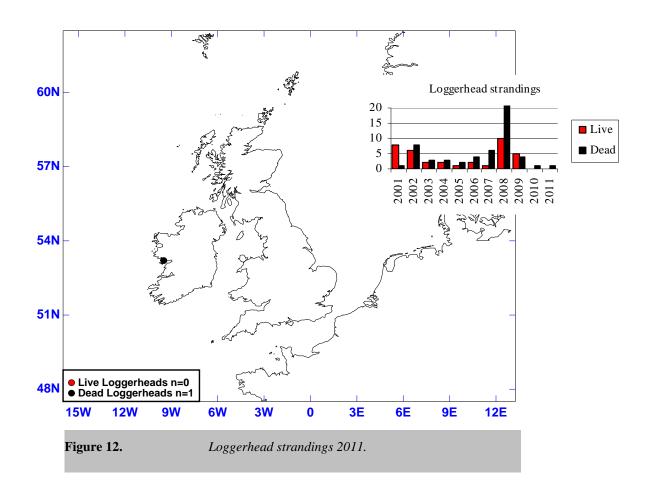


4.2 Strandings.

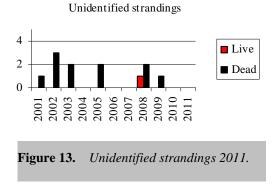


No live or dead **hawksbill turtle** strandings were reported during 2011. There have been no records of Hawksbill turtle "strandings" in the database. One "sighting" record exists off Cork Harbour in February 1983 when one was caught in a herring net and brought ashore alive.





No live or dead **unidentified turtles** were reported stranded during 2011. However, 'strandings' of both live and dead unidentified turtles have been recorded in recent years as shown in **Figure 13**.



All leatherback strandings and sightings, both dead and alive have been plotted by month for the period 2001 - 2011 (n=499) shown in **Figure 14.** The average figure was taken over 2001-2011 and plotted in **Figure 15.** The graph clearly shows the increase in numbers through the summer months and gives a good indication on when to expect leatherbacks around the British Isles & Republic of Ireland coast. The records for the hard-shell species are more sporadic. Of the hard-shell species the most numerous recorded turtle over the 2001 - 2011 period is the loggerhead (n=110). The data for this species are plotted in **Figure 16** and **Figure 17**.

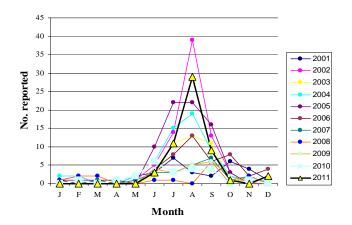


Figure 14. All leatherbacks by month.

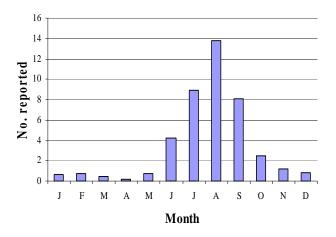
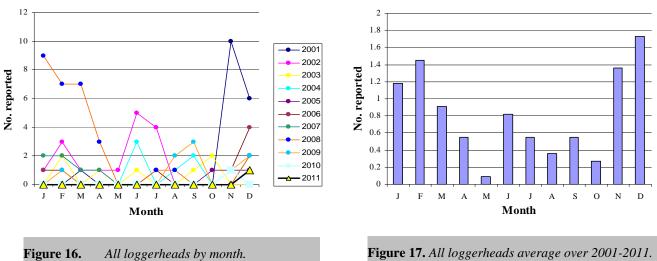


Figure 15. All leatherbacks average over 2001-2011



All loggerheads by month.

Table	4.
-------	----

Cumulative number	of records.	
Country	All S	pecies
	2011	1748 - 2011
Rep. of Ireland	16	1273
England	21	561
Scotland	10	374
Wales	16	228
N. Ireland	0	39
Isle of Man	1	32
Channel Islands	0	12
Offshore	3	10
Total	67	2529

An additional row has been added to **Table 4**. (Offshore), this includes records of turtles where its difficult to attribute a county ie, animal far from shore or nearer to Europe than UK.

Countries are listed in **Table 4.** by descending order of total number of records shown in the year **1748** – **2011** column.

Table 5.

Species Comparis	son.													
	1991 - 2001													
Country	2001 - 2011													
	GT HB KR LBT LOG UNI										I			
England	2	1	0	0	4	3	103	153	12	30	15	58		
Scotland	1	2	0	0	0	2	88	81	13	34	14	11		
Rep. of Ireland	0	1	0	0	2	1	413	162	13	30	29	15		
Wales	0	0	0	0	2	3	64	74	1	15	10	11		
Channel Islands	0	1	0	0	0	0	0	0	1	1	0	2		
N. Ireland	0	0	0	0	0	0	16	8	0	0	3	2		
Isle of Man	0	0	0	0	0	0	4	16	0	0	2	4		
Offshore	0	0	0	0	0	0	3	5	0	0	0	1		
Total	3	5	0	0	8	9	<u>691</u>	499	40	110	73	104		

GT = Green turtle, HB = Hawksbill turtle, KR = Kemp's ridley turtle, LBT = Leatherback turtle, LOG = Loggerhead turtle, UNI = Unidentified turtle.

Table 6.

TURTLE Database Species Totals (1748 - 2011).								
Species	TOTAL							
Green turtle (Chelonia mydas)	10							
Hawksbill turtle (Eretmochelys imbricata)	1							
Kemp's ridley turtle (Lepidochelys kempii)	40							
Leatherback turtle (Dermochelys coriacea)	1898							
Loggerhead turtle (Caretta caretta)	216							
Unidentified	364							
Total animals	2529							

The total records held in TURTLE are 2542 (end of 2011). However, some records with inadequate year data have been excluded in this report and show as a discrepancy compared to previous years in some totals presented in Table 6.

A breakdown of records for each country is shown in **Table 4.** However, the eleven year comparison, 1991-2001 / 2001-2011 shown in **Table 5**, shows a marked decline in leatherback turtles recorded for the Republic of Ireland compared with increases for nearly all other countries, the high numbers in 1991-2001 are a result of the concerted efforts of Gabriel King in investigating and collecting historical records around the Irish coast.

5. MATTERS ARISING.

5.1 Retrospective Reports.

The following retrospective records were added to the TURTLE database during 2011.

T1982/28	Loggerhead turtle, stranded dead, July 1982 at Thallabawn Strand, Co Mayo, Eire.
T1982/29	Kemp's Ridley, stranded dead, December 1982 at Cross Strand Co Mayo, Eire.

6. LIVE STRANDING EVENTS 2011.

There were no live-strandings of marine turtles reported in 2011.

6.1 Rehabilitation

There were no marine turtles reported undergoing rehabilitation in 2011.

6.2 Repatriation.

There were no marine turtles repatriated in 2011.

7. BYCATCH.

Four marine turtles were reported as by-caught during 2011, all were leatherbacks, the details are listed below.

T2011/006 was a leatherback turtle found dead entangled in pot ropes near Bawden Rocks St Agnes, Cornwall on the 26th July 2011. The carcass was recovered to shore where basic morphometrics were taken. Due to the state of decomposition the carcass was not examined further and the remains were collected by the local authority for disposal.

T2011/007 was a leatherback turtle found alive entangled in pot ropes 1 mile west of the harbour at St Agnes, Cornwall on the 27th July 2011. The turtle was released alive.

T2011/044 was a leatherback turtle found alive entangled in pot ropes 5nm south west of Stoke Point Plymouth, Devon on the 9^{th} September 2011. The turtle was released alive.

T2011/055 was a leatherback turtle found alive entangled in pot ropes at Lambay Island, Dublin, Republic of Ireland on the 26th August 2011. The turtle was released alive.

8. SAMPLES & POST-MORTEM EXAMINATIONS.

The normal procedure for the taking of samples is from fresh animals that have been taken for *post-mortem* examination within the CSIP or the Irish Strandings project.

One green turtle was examined within the CSIP during 2011. The green turtle, **T2011/050**, was found at Newark Bay, South Ronaldsay in the Orkneys on the 13th December 2011. This turtle represents the tenth green turtle recorded in the

turtle recorded in the TURTLE database and the fourth for Scotland. The carcass was in a very fresh condition and was sent for examination at the SAC Inverness where preliminary findings suggested the cause of death to be cold stunning.

Two Kemp's Ridley turtles found stranded in 2011 are currently in cold-storage awaiting examination at ZSL.



Plate 1.

Green turtle **T2011/050**.

Photo by: SAC/CSIP

9. DATA SHARING.

The TURTLE database was uploaded to the National Biodiversity Network (NBN) <u>http://www.nbn.org.uk/</u> to include the 2010 data.

10. UNUSUAL OCCURENCES.

Following a small number of dead Kemp's Ridley turtles stranding on the British Isles in December 2011 / January 2012 (5 to date) a request was sent to NOAA asking if turtles recovered and released from the BP Deep Water Horizon oil spill in the Gulf of Mexico were tagged.

Details of tags and tagging location were supplied and as a result the Kemp's Ridleys currently awaiting post-mortem examination at the ZSL will be X-rayed and scanned for PIT tags.

<u>11. PUBLICITY.</u>

The Strandings Web-site has been maintained to provide details of the CSIP. Although this is intended primarily for Wales, key contact details are given for England, Scotland and Ireland. The pages can be viewed at <u>www.strandings.com/</u>

Annual reports and other turtle related publications are available at <u>www.strandings.com/Turtlepage.html</u> Posters and leaflets produced to increase awareness of the project have continued to be distributed.

Records are posted on the National Biodiversity Network (NBN) Gateway and these can be accessed at <u>http://www.searchnbn.net/</u> The NBN is now the preferred outlet for the database and the database on the strandings.com web-site will no longer be maintained but will be linked to the NBN in future.

Publicity encouraging the public to be alert and report sightings and strandings of marine turtles was conducted by MCS through 2011. This included items on Ch4 TV News, BBCR4 Today, BBC R2 News, BBC Radio Scotland, BBC Radio Wales and articles in the national Daily Mail, Daily Telegraph, The Times, The Sun, The Mirror, The Guardian and The Observer, as well as over 150 articles in regional and local press and radio. The Channel 4 news item can be viewed at http://www.channel4.com/news/turtles-lured-to-the-uk-by-jellyfish-feast

An updated UK Turtle Code was produced by MCS in 2011 funded by Natural England and the Scottish Natural Heritage <u>http://www.mcsuk.org/downloads/wildlife/turtlecode.pdf</u> a copy is also attached as Appendix 2.

12. TAGGING.

No marine turtles underwent rehabilitation or repatriation during 2011 so therefore no tagging was carried out.

<u>13. ACKNOWLEDGEMENTS.</u>

Marine Environmental Monitoring wishes to acknowledge the following;

Cornwall Wildlife Trust, Marine Conservation Society, Medasset, Tom Doyle (Coastal and Marine Research Centre (CMRC)), Laura Hanley I.o.M and the Hebridean Wildlife Trust (HWDT) for supplying data to the database.

Scottish Natural Heritage, Natural England, National Parks & Wildlife Service and the Countryside Council for Wales for financial support towards the British Isles & Republic of Ireland TURTLE database.

I would like to offer my very special thanks to Robin Pratt and Jemma and Ray Lerwill without whose support the marine mammal strandings project in Wales, as is, would probably not be in existence. In the early nineties, when very little funding was available in Wales for investigating causes of death in marine mammals and turtles, (cetaceans, seals and turtles) a facility was provided at Fishguard, Pembrokeshire, enabling under-cover mechanical handling, freezer storage (supported by CCW), washing down facilities and office space which housed the Welsh national reporting telephone line for nearly 20 years. Under the cover of the publicity of the new UK national strandings reporting line 0800 6520333, I have taken the opportunity to move the Wales reporting line from Fishguard to my home base. I and the CSIP team are extremely grateful to Robin, Jemma and Ray for this support, commitment and foresight towards monitoring the marine megafauna on the Welsh coast.

14. APPENDICES.

Appendix 1.	2011 TURTLE data.
Appendix 2.	Updated UK Turtle Code.

RecordKey ciesCghtStra			Country	County	Location	Notes
T2011/001 LBT SEA			SCOTLAND	WESTERN ISLES		Seen from HWDT research vessel Silurian. 1.5m seen from 50m for 10 mins before diving.
T2011/002 LBT SEA T2011/003 UNI SEA		02/06/2011		PEMBROKESHIRE CORNWALL		Seen 200 metres away. Slight sea strong tide. Large back shape, too large for seal, no fin - probable turtle. Seen from boat 2ft 6ins x 3 ft. Pale greenish.
T2011/003 UNI SEA		13/07/2011		CORNWALL		Seen non boa zit ons x s it. Fale greenist. No details
T2011/005 LBT SEA		09/07/2011		PEMBROKESHIRE		Seen 6 metres from yacht - surfaced 3 times then dived
T2011/006 LBT SEA		26/07/2011		CORNWALL		Found dead in commercial pot ropes. Approx 7 ft long, Taken ashore.
T2011/007 LBT SEA		27/07/2011		CORNWALL		Released from rope tangled around head and flipper. White scar line down carapace.
T2011/008 UNI SEA	ALIVE	26/07/2011	ENGLAND	DORSET	One mile offshore of Durlston	Body approx 15ins. Short neck. Seen from 25ft for half minute before dived. Green colour swimming east to west.
T2011/010 LBT SEA		29/07/2011		SWANSEA		Seen by Gower Coast Adventure boat
T2011/011 LBT SEA		23/07/2011			-	10 m from observer. Several pics taken.
T2011/012 LBT SEA		29/07/2011		CORK		seen from dive boat
T2011/013 LBT SEA T2011/009 LBT SEA		07/08/2011 27/07/2011		HAMPSHIRE		seen from boat 2m away. Huge turtle, 3 ft across. Swimming 500m from bay. Light scar line down carapace and part of front flipper missing. 2m inshore off rocks, viewed from cliffs.
T2011/014 UNI SEA		05/08/2011		SUSSEX		Light scal line down catabase and part of non import missing. 2m instruction on rocks, viewed non-catabase and part of non target and part of non target and part of non-target and par
T2011/015 LBT SEA		06/08/2011				seen while sampling jellyfish.1.5-1.7m length,deep scar left side dorsal ride. Shallow water
T2011/016 LBT SEA		02/08/2011		ANGLESEY		Seen 2 m from boat by Kayaking instructor. Heading southerly direction out to sea.
T2011/017 LBT SEA		04/08/2011		PEMBROKESHIRE	Witches cauldron, Ceibwr Bay	Seen 15m from headland. Seen 60 m from observer.
T2011/018 LBT SEA				HIGHLAND	Gairloch	Floating near surface in Gairloch harbour then dived. Seen 5m from observer
T2011/019 LBT SEA		08/08/2011		ANGLESEY		Seen from boat. Swimming, 22 m long.
T2011/020 LBT SEA	-	19/08/2011		PEMBROKESHIRE CORK		Seen from land while fishing - One metre across making good headway near rocks against tide in SW direction.
T2011/021 LBT SEA T2011/022 LBT SEA	ALIVE	26/08/2011 19/08/2011		PEMBROKESHIRE		seen from MV Holly Jo, whale watching vessel Heard then saw huge turtle surface 5 ft from kyack whilst fishing - dived and not seen again -
T2011/022 LBT SEA		26/08/2011		CORNWALL		Ready decomposed, head and limbs missing. Seen one metre from fishing boat?
T2011/024 LBT SEA				offshore		Seen from boat approx. 40 metres. White mark on left top of carapce - looked injured or exhausted, treading water.
T2011/025 LBT SEA		29/08/2011		CORNWALL		Swimming strongly towards Fowey
T2011/026 LBT SEA		17/08/2011		ISLES OF SCILLY	25nm off Scilly isles, near Celtic	Swimming west. Seen 20 metres from Fastnet sailing boat.
T2011/027 LBT SEA				Western Isles		Seen approx 5 m from observer. Surfaced in front of and facing boat (boat headed n/w). 1.5 - 2 m in length. Thought two turtles in wake.
T2011/028 UNI SEA		17/08/2011		DEVON	Plymouth	Seen from sailing boat. 14 ins long.
T2011/029 UNI SEA		28/08/2011		DEVON		Stationary then swimming westerly 15m from observer. Colour of wet cardboard box and approx 3 ft long.
T2011/031 LBT SEA T2011/032 LBT SEA		30/08/2011 28/08/2011		CUMBRIA PEMBROKESHIRE		Swimming fast westerly one metre from observer - also seen on 31st photos of animal 12 ft long small head, long neck, stiff body
T2011/032 LBT SEA		23/08/2011		CORNWALL		Seen from boat swimming in southerly direction, 50m from observer
T2011/034 LBT SEA				Western Isles		Seen 30m from observer seen from boat on surface then dived
T2011/035 LBT SEA		01/09/2011		Cumbria		Seen from fishing boat swimming arounf 30 ft from observer
T2011/036 LBT SEA		30/08/2011		PEMBROKESHIRE	300m off bay near Amroth	Seen while 4 boats kayaking 3m away - turtle appeared to follow and interact.
T2011/038 LBT SEA		18/09/2011		CORNWALL		Seen from land approx 600m. Just inside the Three Stone Oar rocks.
T2011/037 LBT SEA			SCOTLAND	Highland		Moving out to sea towards Priest Island - short dives air intakes within 20 ft of boat.
T2011/030 LBT SEA T2011/039 LBT SEA			OFFSHORE SCOTLAND	off France Gallaway		Swimming slowly head up for air every 4-5 mins. seen 5m from boat travelling SW.
T2011/040 UNI SEA			OFFSHORE	offshore		seen along do at taveling port.
T2011/041 LBT SEA		17/09/2011		PEMBROKESHIRE		Seen alongside of many bir of structure in the bird/sea watching. Inside tide race 2-300m offshore, size of a Ford Fiesta!
T2011/042 LBT ST		27/09/2011		CUMBRIA		Found dead decomposing right of Lifeboat stn.
T2011/043 LBT SEA	ALIVE	01/10/2011	SCOTLAND	Gallaway		seen by dive crew of MV Maid Good and 50-100m by observer onboard carrying out marine mammal monitoring for E-ON. Seen 10mins not feeding.
T2011/044 LBT SEA		09/09/2011		DEVON		Found entangled in pot rope - released alive and swam away
T2011/045 LBT SEA		31/08/2011		CEREDIGION		Seen by holiday maker kyaking in bay in evening
T2011/046 LBT SEA		12/10/2011		CUMBRIA		Seen from boat. Prics taken.
T2011/048 LBT ST T2011/047 LBT SEA		06/12/2011		DEVON ISLE OF MAN		Decomposed = awaiting details Large, 1.5 - 2m, with ridges on its back. Seen for 5 mins from commercial fishing boat King Challenger.
T2011/047 LBT SEA T2011/049 KR ST			SCOTLAND	Western Isles		36.5cm nose to shell tip, carapace 27cm
T2011/050 GT ST			SCOTLAND	ORKNEY		Garapace 27 cm Alagace 27 cm Carapace 27 cm Carapac
T2011/051 KR ST		12/12/2011		CEREDIGION		Photograph sent with report but nothing found next day. Recovered by John Gorman and collected by Rod Penrose 31/12/2011. Held by MEM
T2011/052 KR ST		13/12/2011		MAYO		26ins
T2011/053 KR ST		28/12/2011		Vale of Glamorgan		dead on beach. Hidden and retrieved next day.
T2011/054 LBT SEA				offshore		Seen from Portsmouth ferry heading to France
T2011/055 LBT SEA		26/08/2011		DUBLIN		Tanagled in pot rope, released alive by Alpha Dive Group
T2011/056 LBT SEA T2011/057 LBT SEA		17/07/2011 22/08/2011		WEXFORD CORK		Swimming seen from boat (1 of 3 sightings possibly same animal)
T2011/057 LBT SEA		22/08/2011		CORK		Seen from boat (1 of 3 signings possibly same animal) seen from boat (1 of 3 signings possibly same animal)
T2011/059 LBT SEA		22/08/2011		CORK	,	Seen from boat (1 of 3 sightings possibly same animal) seen from boat (1 of 3 sightings possibly same animal)
T2011/060 LBT SEA		17/08/2011		CORK		seen from angling charter
T2011/061 LBT SEA		21/08/2011		CORK	· · · · · · ·	no details
T2011/062 LBT SEA		23/07/2011		CORK		seen from whale watching vessel. Size medium.
T2011/063 LBT SEA		17/08/2011		KERRY		seen from 27ft yacht. Big enough to stand on!
T2011/064 LBT SEA		19/08/2011		CORK	close to Cape Clear	waiting for details angling charter boat
T2011/065 LBT SEA T2011/066 LBT SEA		20/08/2011 21/08/2011		CORK		waiting for details waiting for details
T2011/067 LOG ST		01/12/2011		CLARE		waining for details carapce 54 x 58 cms with one flipper and bones found on beach - pic sent to Tom Doyle for ID
	22/10					

The United Kingdom Turtle Code

Advice for sea users on how to deal with marine turtle encounters

As a sea user, 🥖 you can help in the effort to protect endangered marine turtles by providing information about your encounters with these spectacular creatures in UK waters.

MARINE TURTLES ARE LEGALLY PROTECTED

There is no offence if turtles are caught accidentally in fishing gear. Nor is it an offence to help turtles if entangled or stranded, or temporarily to hold dead turtles for later examination by experts.

However, marine turtles are protected in Britain. This means that:

- turtles may not be deliberately killed or caught
- · live turtles may not be landed unless for the purpose of tending them or enabling their subsequent release
- dead turtles or shells obtained from turtles in UK waters may not be possessed unless the animal was lawfully acquired
- turtles and their derivatives may not be sold or offered for sale without UK government permission, unless they are antiques acquired before 1st June 1947 (with documented proof)
- turtles and their derivatives may not be imported or exported without UK government permission.

The following legislation pertains to marine turtles:

- Wildlife and Countryside Act 1981 (as amended), in England and Wales.
- Conservation of Habitats and Species Regulations 2010, in England and Wales.
- Conservation (Natural Habitats, &c.) Regulations 1994 as amended, in Scotland.
- Conservation (Natural Habitats etc.) (Amendment) Regulations (Northern Ireland) 2007.
- Control of Trade in Endangered Species (Enforcement) Regulations (1997) as amended, in the UK.
- Customs and Excise Management Act 1979. Isle of Man Wildlife Act 1990.

WHAT TO DO IF YOU FIND A SICK OR ENTANGLED TURTLE

Immediately report the turtle to the relevant contact. Marine turtles will drown if trapped underwater, but prompt action can save them. A turtle that is entangled or trapped is likely to be stressed. Large turtles deliver a serious bite and a blow from a flipper can be painful, so be careful. Due to possible health risks involved in handling turtles, always wear rubber gloves.

If traumatised/inactive

limp, no decomposition)

Do not cover the nostrils.

you return to shore.

times.

(no or slight movement, limbs flexible and

Severely traumatised hard-shelled turtles can be

• Wrap the turtle in a towel soaked in seawater.

place on its belly. To drain the lungs, raise the

back end of the shell so the turtle is resting at

approximately 30°. Keep it in this position until

Leatherbacks should **not** be hauled aboard. If

slowly, ensuring they are able to breathe at all

DEAD: There may be serious health risks

Inexperienced individuals are advised not

to touch them. Where possible, record the

specimen is fresh, bring it back to shore and

place in cold storage. Always wear rubber

involved in handling dead turtles.

details listed above and, only if the

aloves when handling turtles.

inactive, they can be towed to shore very

• Place the animal in a sheltered and secure

saved if they are small enough to fit on your boat.

TURTLES ENTANGLED AT SEA

Approach calmly and cautiously and ensure first of all that the turtle's head is above water so that it can breathe if it is alive.

ALIVE: AVOID TOWING TURTLES TO SHORE. They should be disentangled and released at sea whenever possible.

If alert & active

- Do not use a gaff to pull the turtle alongside and do not haul leatherbacks aboard.
- Avoid pulling hard on the turtle's flippers as they may dislocate or break.
- Carefully disentangle the turtle, making sure that as much net and line as possible has been removed before the animal is released.
- Make sure that the vessel is stopped and out of gear before carefully sliding the turtle back into the water.
- Ensure that the turtle is clear of the vessel before moving away.

ONLY if disentanglement at sea is impossible should the turtle be brought ashore.

Tow leatherbacks very slowly and make sure the animal's head is above water so that it can breathe. Release leatherbacks in shallow water, not on land. Other species should be retained and reported.

PLEASE REPORT ALL TURTLE ENCOUNTERS SCOTLAND NORTHERN IRELAND

ENGLAND/WALES

ALL RECORDS Rod Penrose, Marine Environmental Monitoring 01239 683033 (24hrs) www.strandings.com

LIVE STRANDINGS/ ENTANGLEMENTS RSPCA 0300 1234999 BDMLR 01825 765546

ISLE OF MAN

Dr Fiona Gell/Laura Hanley DEFA - Isle of Man Government 01624 685835 (main) Marine Operations Centre 01624 686628 (24hrs)

ALL RECORDS Laura Clark, Marine Monitoring Officer, Scottish Natural Heritage 01463 725237

DEAD STRANDINGS Bob Reid, Scottish Agricultural College 01463 243030/ 07979245893

LIVE STRANDINGS/ **ENTANGLEMENTS** SSPCA 03000 999999

ALL RECORDS The Coastal Zone Centre at Portrush (DOENI) 028 7082 3600

REPUBLIC OF IRELAND

ALL RECORDS Dr Thomas Doyle **Coastal & Marine Research** Centre, University College Cork 00353 (0) 21 4703119 (Direct) 00353 (0) 87 1354938 (24hrs)

Report online at: www.euroturtle.org/turtlecode & www.mcsuk.org

RECORD THE FOLLOWING DETAILS

All information is valuable, but the following details are particularly useful:

- A description of the turtle (alive or dead), identification of species (at least to leatherback/ hard-shelled level) and overall straight length. Note any damage (e.g. cuts, scars) and take photographs when possible.
- Location (longitude & latitude/ OS grid reference), date and time of sighting.
- Other observations, such as turtle's behaviour, whether caught in fishing gear (including exact nature of entanglement, gear involved) etc.
- Presence of tags. Many conservation projects place plastic or metal tags on turtles' flippers, which display identification numbers and a return address. Record any tag details if this can be done without causing disturbance to the turtle.

Please report all dead turtles, even if they have to be discarded at sea. Records from diaries or logbooks, however old, are also of interest.

TURTLES STRANDED ON LAND

Leatherback turtles

Leatherbacks found stranded on beaches are usually very weak, dead or dying, but might still be saved.

If apparently uninjured:

- Carefully drag the turtle back to the sea and release it (enlist the help of several people and pull the shell rather than the flippers).
- Do not drag the animal over rocks, as this will cause severe damage.
- If stranded on rocks, it may be better to wait for the incoming tide to provide some buoyancy before dragging the turtle back to sea.

Other species (hard-shelled)

Loggerhead, Kemp's ridley, green and hawksbill turtles encountered on UK shores are usually cold stunned juveniles and should not be placed back in the sea.

- Wrap the turtle in a towel soaked in seawater, do not cover the nostrils
- Place the animal in a sheltered and secure place on its belly. If inactive, raise the back end of the shell so the turtle is resting at approximately 30° to drain the lungs. Report the turtle as soon as possible.

Dead turtles of all species are valuable for research and should be reported as soon as possible. Fresh specimens should be preserved in a cold store where possible. These animals will undergo a full post-mortem examination within the DEFRA-funded UK Cetacean Strandings Investigation Project (CSIP).

For copies of this code and information about turtles in UK waters, contact MCS on 01989 566017 or info@mcsuk.org



Marine Turtles in the UK

Of the world's seven marine turtle species, five have been recorded in UK waters. They are the leatherback, loggerhead, Kemp's ridley, green and hawksbill turtles. The leatherback, the largest marine turtle, is the species most frequently recorded in UK waters. Leatherbacks have a flexible, leathery shell and are unique among reptiles in that they are able to metabolically raise their body temperature above that of their immediate environment, allowing them to survive in colder waters. Each summer leatherbacks migrate to UK waters where they feed on jellyfish. The other four species have hard shells and are less frequently encountered in UK waters, where they usually occur as stray juveniles carried by currents from warmer seas.

