



Hebridean Whale & Dolphin Trust

RESEARCH & EDUCATION REPORT 2000





FOREWARD

Over the past year HWDT's small team of staff and army of volunteers have been busy raising awareness of whales and dolphins of the Hebrides and the marine environment through its education and awareness programme and carrying out a variety of research projects.

2000 was the final year of a three year education programme part funded by SNH and in year 3 by the Jerwood Foundation, the J & JR Wilson Charitable Trust and other charitable Trusts. This enabled us to carry out a limited programme on Mull, the Scottish mainland and other Argyll islands.

Ecotourism research featured in HWDT's research programme culminating in HWDT being awarded STB's prestigious Tourism and the Environment award in 2000 for its role in developing and promoting ecotourism.

HWDT continues to show the role that ecotourism has in the conservation of whales and dolphins as well as helping to conserve local island communities. HWDT has continued to develop partnerships with other organisations working within the environment, such as WWF, who have part-funded a bottlenose dolphin project and other core work, IFAW, WDCS and MCS, and continues to develop relations with local groups, businesses and marine users through its sightings scheme and locally-based projects.

Much effort in 2000/01 has been directed at securing the NADAIR bid (Nature and Sustainable Development in the Argyll Islands). The Heritage Lottery Fund gave 2nd stage approval in October 2000, however funding delays meant that the final funding package wasn't secured until August 2001. This resulted in the Trust using essential reserves to fund its core education and awareness work and relying on the generosity of supporters through memberships, donations and an appeal to help fund it through a difficult period.

With funding finally in place the next 3 years promise to be an exciting time for HWDT. A floating classroom and research vessel will be purchased over the winter months and an extensive education monitoring and sightings programme is planned to start in Spring 2002 throughout the Argyll islands area.

Whilst still a small charity, with the help of its supporters (now nearing 500) and volunteers HWDT has achieved a great deal during its short history. We hope that this new phase in its development will lead to greater conservation of our whales, dolphins and the marine environment of West Scotland.

Cally Fleming
HWDT Executive Director



Marine Discovery Centre

During 2000 HWDT's Marine Discovery Centre attracted nearly 16,000 visitors (see table below). In August we also opened a second centre in Oban which was equipped with a research office and various displays on marine mammals and ecology.

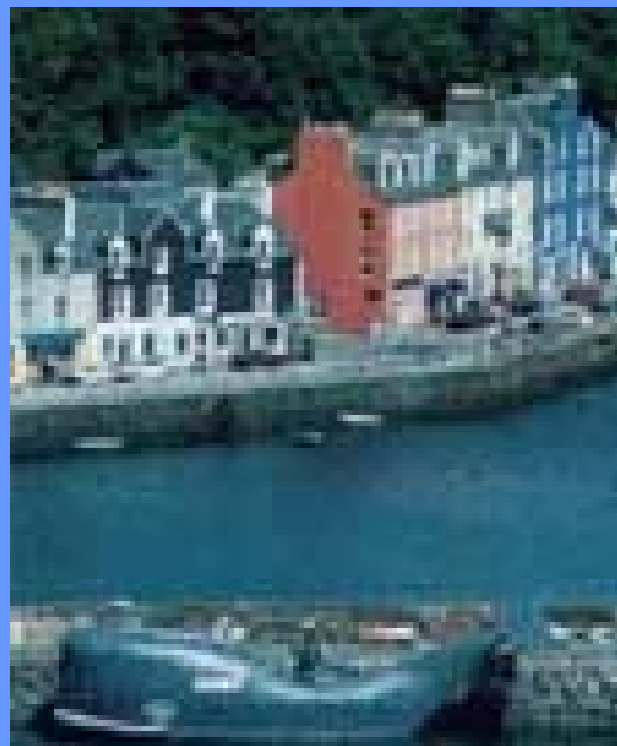


VISITOR NUMBERS AT THE TOBERMORY MARINE DISCOVERY CENTRE IN 2000

	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC
Number of Adults	115	68	196	1,609	1,194	1,420	2,376	2,172	1,434	1,169	187	215
Number of Children	21	11	12	591	233	261	894	885	200	456	32	88
Number of Visitors	136	79	208	2200	1,427	1,681	3,270	3,057	1,634	1,625	219	303
Total Number of Adults	115	183	379	1,988	3,182	4,602	6,978	9,150	10,584	11,753	11,940	12,155
Total Number of Children	21	32	44	635	868	1,129	2,023	2,908	3,108	3,564	3,596	3,684
Total Number of Visitors	136	215	423	2,623	4,050	5,731	9,001	12,058	13,692	15,317	15,536	15,839

Moby

During the summer HWDT teamed up with adventurer Tom MacLean to bring "Moby", a 65' converted trawler disguised as a sperm whale, to the West Coast of Scotland. HWDT equipped Moby with displays about whales, dolphins and other local marine life. Moby's visits to Tobermory, Oban and Fort William caused a considerable amount of publicity and amazed both tourists and locals alike, and spread the Trust's message in a fun and memorable way.





Sightings Postcard

A postcard-sized form was developed to help publicise HWDT's sightings report scheme. On one side of the form are pictures of some of the more common cetacean species in Hebridean waters to help identification of these animals. These cards will be distributed throughout Argyll at marinas, tourist information centres, ferry terminals, visitor centres and boating/outdoors shops.

School Visits

10 school visits were made over the year to Tobermory playgroup, Tobermory High School (Isle of Mull), Bowmore, Keills, Port Charlotte, Port Ellen and Bridgend Primary schools (Isle of Islay) and Craighouse Primary school (Isle of Jura). The total audience for all of the visits came to 326 pupils and 22 teachers.

Educational Website

Over the past year the HWDT website has received over 280,000 hits (see table below). The website contains 75 pages of information including factsheets (for both adults and children) on twenty species of whales dolphins and porpoises, summaries of HWDT's research & education programme, maps and details of whale & dolphin sightings in West Scotland, ecotourism pages listing local whale-watching operators, and careers advice for young people wishing to work in the field of marine science. New pages added to the website this year include a volunteer information page with a scrapbook of volunteer photographs, mail order products and a variety of research reports and papers which can be downloaded. The website can be found at: www.hwdt.org and is also available to schools on CD-ROM.

THE NUMBER OF HITS TO HWDT'S WEBSITE IN 2000

	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC
Number of Hits	11,037	14,340	1,777	40,931	50,007	23,300	17,261	17,497	22,812	32,834	31,894	24,279
Cumulative Total Number of Hits	11,037	25,377	27,154	67,485	118,092	141,392	158,653	176,150	195,962	231,796	263,690	287,969

Public Talks and Guided Walks

Thirteen talks on whales and dolphins in the Hebrides were given to members of the public on the Isle of Mull and in Perth, Ayr, Inverness, Kendal and the Isle of Bute. The audience for these talks totalled 374 adults and 37 children. In addition during the summer the Trust ran six guided walks which interpreted aspects of local coastal wildlife, flora and history to visitors to Tobermory.



Open Evening

HWDT held an open evening on 14th March at which members of the local community were given presentations on HWDT's research and educational plans. One main focus of the open evening was what HWDT could do to help local businesses and the community such as promoting wildlife tours, providing information on wildlife to help marketing businesses, bringing positive media attention to the island and attracting young people into an area which is facing the problem of depopulation.

Children's Activity Days

Four children's activity days were run on Mull during the summer, two in collaboration with the Mull and Iona Ranger Service. Another children's day was run in Oban. These activity days involved a variety of environmental activities including a scavenger hunt and field trips to some of Mull's beaches. Two beach cleans, involving local children, were also organised. These events were attended by a total of 64 children.



Environmental Training Programme

Over the past year 52 people have entered into HWDT's environmental training programme (compared with 26 in 1998 and 43 in 1999). As part of this programme the volunteers were taught about the marine life and environment of West Scotland as well as a variety of other skills such as computing, environmental interpretation, marketing and design skills. In addition these volunteers helped staff develop and run HWDT's various research, conservation and education projects.





Promoting Marine Ecotourism

- At the request of Scottish Natural Heritage HWDT produced a Marine Mammal Awareness course. This course was designed to give information to boat operators and Hebridean tourism businesses about whales and dolphins in local waters, their behaviour and biology, how to approach marine mammals safely from boats and ways in which whales and dolphins could be used to promote local businesses. On 4th June the first of these courses was held at the Brightwater Visitor Centre Kyleakin, Isle of Skye.
- HWDT also attended three wildlife tourism workshops held in Thurso on 26th February. These workshops were designed to develop and promote wildlife tourism in Caithness and Sutherland, and HWDT was able to contribute its knowledge of the benefits of marine ecotourism and ways in which wildlife can promote and bring benefits to tourism businesses: not just tour operators but accommodation providers and farming operations.
- HWDT contributed six lectures to the Scottish Agricultural College (Countryside Management course) and Napier University (Ecotourism MSc course) on the diversity of marine mammals in Western Scotland and the socio-economic benefits that marine wildlife tourism can bring to rural coastal communities.

Environmental Committees and Forums

HWDT staff have attended several environmental committees and forums over the year to present information on whales, dolphins and the marine environment in West Scotland and to take an active role in conservation discussions and decision making. These include:

- ◆ Representation at the International Whaling Commission Scientific Committee meeting.
- ◆ Representation on the Steering Groups of the UK Bio-diversity Action Plans for Cetaceans, Turtles and Basking Sharks.
- ◆ Representation on the Argyll and Bute Bio-Diversity Action Plan Marine Technical Group.
- ◆ Delegates at the Argyll and Bute Environmental Education Forum.
- ◆ Representation on the Scottish Environment Link Marine Task Force.
- ◆ Representing the interests of local wildlife tour operators and marine users in forums with the Royal Navy over the impact of military activities in the Hebrides.
- ◆ Regional representative for the Marine Animal Rescue Coalition.
- ◆ Representation on the Mull and Iona Land and Sea Forum Steering Committee.
- ◆ Representation on the Mull and Iona Ranger Service Management Committee.



Raising Awareness and the Media

Over the past year HWDT, has not only increased awareness of the marine environment through its educational programme, but also through the media. Newspaper articles and radio and TV interviews conducted by HWDT in 2000 include:

March

- SCENES (x2)
- Argyllshire Advertiser
- Am Muileach*
- Round and About (x3)*

April

- Am Muileach*
- Round and About*

May

- Daily Mail
- Scottish Field
- Oban Times

June

- BBC1 (Scottish News)
- Press and Journal
- Am Muileach

July

- Radio 4
- BBC World Service
- Radio Scotland (x2)
- The Big Issue
- Press and Journal (x2)
- Oban Times
- West Word
- Lochaber News
- Am Muileach*
- Round and About (x2)*

August

- SCENES
- Holiday West Highland
- Oban Times

September

- Press and Journal

October

- BB2 (The Natural World)
- Outlook Magazine
- Oban Times
- Round and About (x5)*

November

- BBC1 (Countryfile)
- BBC1 (Scottish News)
- Radio Scotland (x2)
- The Herald (x3)
- Press and Journal (x2)
- Oban Times

December

- Oban Times (x2)
- Round and About (x3)*

* Mull magazine/newspaper





Coastal Walk Leaflet

Between the village of Tobermory and the lighthouse on the edge of Bloody Bay, is a delightful, woodland-shrouded coastal path. An A4 leaflet was designed to interpret this walk, including historical information, local legends and details on flora and fauna that can be seen when walking this coast path.

Educational Events

Over the last year HWDT has attended and been involved in a wide variety of shows, fairs and events including:

Fishermans' Gala Day, Tobermory

HWDT set up a variety of children's game stalls to entertain local children and help raise funds for the Fishermens' gala day. The activities included 'make yourself a fisherman', 'hoop the octopus' and a 'feed the dolphin' game. The games were set up on Tobermory beach together with a small obstacle course set out with items lent by local fishermen.

Attendance: Children: 30+

HWDT 'Day of the Dolphin', Tobermory

On 26th August 2000 HWDT ran its annual open day. Unfortunately, the sunshine of previous years did not happen and as a result of the rain, the event was moved indoors. Several stalls were set up including: a tombola, fishing game, lucky dip, quizzes, name-the seal, octopus hoopla, and 2nd hand books and merchandise stalls. In addition, there was a pancake stall and a 10ft sea scene, with fish and other sea creatures to paint, was set out.

Attendance: Adults:154 Children: 70

Scottish Wildlife and Countryside Fair, Perth

The wildlife and countryside fair is the largest environmental event in Scotland. This two-day environmental event hosts exhibits from environmental groups from all over Scotland. The theme of this year's fair was Scotland's Seas & Coasts and HWDT was invited to take a significant role in the Fair through the following activities:

Throughout the weekend HWDT ran an information stall with display boards, sightings map and video presentations.

Attendance: Adults: 9,000+ Children: 5,000+



Obstacle Course : “The Migration Course”

This interpretative obstacle course was designed to illustrate aspects of migration and cetacean behaviour. All activities had interpretative boards (appended to report) and prizes were given to each competitor. Over the two days approximately 500 children took part in the course which was open all afternoon on both days. Ages ranged from toddlers to 12 year olds.

“A Whale of a Time – Seal-iously!” An environmental play.

This 25 minute play had a basic message about reducing marine litter and introducing the audience to Duncan’s world, based on the Duncan the Dolphin colouring book, produced last year by HWDT.
Attendance: Children: 80 Adults: 18

The theme of this year’s SWCF was particularly relevant to HWDT and we were given ample opportunity to promote our work. It also provided a real chance to catch up with other environmental organisations and to keep up to date with new ideas.

Argyll & Bute Regional Environmental Education Forum (ABREEF) Environmental Fair, Tarbert

This was a two day event, with the first day consisting of talks to local schools and a second general open day. On the schools’ day the children were told about the differences between toothed whales and baleen whales and how whales feed, with the help of props. Touchy-feely boxes were used as a way of interpreting reliance on senses other than sight to find food. A Photo-ID game was also used to look at different whales and think about how these could be used to distinguish between species.

Attendance: Children: 120 Adults: 40

OTHER SHOWS AND EVENTS ATTENDED

- **Community Education Day, Fionnphort**
[Attendance: Adults 30 Children: 5]
- **Ayr Environment Fair, Kilmarnock**
[Attendance: Adults:50 Children: 42]
- **Mull & Iona Fishermans’ Association Gala Day, Fionnphort**
[Attendance: Adults:300 Children: 50]
- **Kilchoan Regatta, Kilchoan**
- **Salen Show, Salen**
[Attendance: Adults:400 Children:100]
- **Community Education Day, Craginure**
[Attendance: Adults 30 Children 30]





Research and Conservation

Report by the Scientific Director

Over the past year HWDT has been commissioned and been involved in a variety of research projects not only on whales and dolphins, but also a variety of other marine environmental and conservation issues. These projects and the staff involved are listed below. One of the major projects we conducted over the last year was on the economic impacts of whale-watching in West Scotland for the Department of the Environment, Transport and Regions. This project demonstrated that whale-watching is worth nearly £11 million a year to the economy of rural communities in West Scotland. Therefore, conserving whales and dolphins in these areas not only benefits the animals but can also provide benefits for the human inhabitants in the area through whale-watching and other tourism opportunities.

We have continued to publish a variety of scientific reports, articles and papers on the research and conservation work done by HWDT. Over the year we have received over 720 requests for copies of these reports from scientists throughout the world, from Scotland to China and Cambodia.

In August we started putting these reports onto the HWDT website (www.hwdt.org) so that the information could be easily downloaded and used by scientists, students, environmentalists and interested members of the public. This has proved to be very successful and several hundred of these reports are downloaded every week.

One of the publications produced by HWDT over the last year was a paper by Karen Stockin and other scientists on surfacing rates of minke whales inhabiting the waters near Mull, Coll and the Small Isles. The report itself was founded on statistics taken over a three year period 1992-1994, and 1997. The dive sequences were recorded for 292 whales, which were monitored during optimal sighting conditions and taken at 30 minute intervals. The paper showed how the surfacing intervals of the whales vary depending on the month of the year and even the time of day. The whales surfacing intervals are shorter during the months June and July.

The study also suggests a variability in surfacing intervals for minke whales between different geographical regions. The surfacing times of the whales in north-west Scotland are comparable to those of Icelandic minke whales, while those recorded in Norway apparently have a longer surfacing period, although these latter two studies only record diving sequences from one or two individual whales.



This research project has serious conservation implications for minke whales. Population estimates of minke whales in the North-east Atlantic are currently based upon line-transect surveys and Norwegian whaling operations currently kill an annual quota of minke whales calculated from these predictions. These surveys use sightings data taken exclusively in July, but use information on surfacing rates collected later in the year. This means that minke whale numbers are possibly being seriously over-estimated in these surveys and, therefore, the Norwegian quota for hunting minke whales would be larger than the population can withstand.

This study is an example of how the work that HWDT conducts can have significant impacts in the field of whale and dolphin research, conservation and management.

Chris Parsons
Dr E.C.M. Parsons MIBiol FRGS
Scientific Director



Operation Sightings

This scheme was launched to monitor the distribution of whales and dolphins, involving local marine-users and members of the public in the collection of scientific data. Over 200 contributors have reported in excess of 750 sightings of whales, dolphins and basking sharks over the past year and their sightings have been recorded on a constantly up-dated map and database in the Marine Discovery Centre. Summaries of these sightings have also been regularly published on the HWDT website, in local newspapers and in the magazine *British Wildlife*.



Research Staff and Projects 2000/2001

Senior Scientific Officers

Alison Gill MSc

- *The use of photo-identification techniques in studies of minke whales*
- *Distribution of individual minke whales*
- *Impacts of marine debris on minke whales*
- *The distribution, ecology and population dynamics of bottlenose dolphins in West Scotland*

Caroline Warburton MSc

- *The socio-economic impacts of whale-watching in West Scotland*

Scientific Officers

Kelly MacLeod MSc

- *Minke whale habitat use*

Rene Swift MSc

- *Harbour porpoise habitat use*

Philip Johnston BSc

- *Socio-economic impacts of whale-watching on the Isle of Mull*
- *The distribution, ecology and population dynamics of bottlenose dolphins in West Scotland*

Victoria Grillo BVM MRCVS

- *Impacts of sewage pollution on harbour porpoises*

Juliet Shrimpton MSc

- *A review of potential impacts of fish farms on harbour porpoises*

Sarah Pooley MSc

- *Impacts of military activities on cetaceans in West Scotland*

Andrew Woods-Ballard MSc

- *Socio-economic impacts of whale-watching in southern Skye*

Angela Hughes MSc

- *Socio-economic impacts of whale-watching in Arisaig*

Ruth Pettigrew

- *The development of sustainable tourism on the Isle of Mull*

Research Assistants

Rachel McClellan MSc

Thomas Dawson MA

Sarah Barry

Charles Soole



The economic impact of whale-watching in West Scotland

During the tourist season of 2000 HWDT carried out a research project on behalf of the Department of the Environment, Transport and Regions. In this project four sets of interview surveys were undertaken to investigate impact of whale-related tourism on the economy of rural West Scotland.

A total of 32 boat operators, 8 visitor-centre managers and 324 tourists on whale-watching trips were interviewed. In addition, 673 tourists and 189 residents were interviewed to record the perceived importance of this industry for the local community and tourism in general.

The survey results showed that the majority of whale-watchers in West Scotland are well-educated, middle-class, mature and British. Most of the whale-watchers only become aware of cetacean-watching trips when they arrived in the area. However, 23% visited the region specifically to go whale-watching. The main reason given for going whale-watching was to “see whales and dolphins in the wild”.

In 2000, an estimated 241,952 tourists were involved with whale-tourism activities in West Scotland. The direct economic income from whale-watching activities (i.e. tourists paying to go on whale-watching trips) was estimated to be £1,767,971. In addition, 115 jobs are provided by whale-watching tourism in rural West Scotland.

The associated expenditure (accommodation, travel, food etc) from tourists visiting the region specifically to go whale-watching represents an additional £5.1 million in tourism income for rural West Scotland. In addition, 16% of whale-watching tourists stayed in the region extra nights as a result of going on whale-watching trips, bringing an additional £0.9 million in tourism income to rural areas in West Scotland.

The total income generated by whale-tourism in rural West Scotland was estimated to be £7.8 million.



Research Publications by HWDT Staff

Journal Papers (Papers on Scottish Cetaceans are in Blue)

- **Stockin, K.**, Fairbairns, R.S., **Parsons, E.C.M.** and Sims, D. 2001. The effects of diel and seasonal cycles on the dive duration of the minke whale (*Balaenoptera acutorostrata*) off the Isle of Mull, Scotland. *Journal of the Marine Biological Association of the United Kingdom* 81: 189-190.
- **Gill, A.**, Reid, R.J. and Fairbairns, B.R. 2000. Photographic and strandings data highlighting the problem of marine debris and creel rope entanglement to minke whales (*Balaenoptera acutorostrata*) and other marine life in Scottish waters. *European Research on Cetaceans* 14: 173-178.
- **Parsons, E.C.M.**, Birks, I., Evans, P.G.H., Gordon, J.G., **Shrimpton, J.H.** and **Pooley, S.** 2000. The possible impacts of military activity on cetaceans in West Scotland. *European Research on Cetaceans* 14: 185-190.
- **Shrimpton, J.H.** and **Parsons, E.C.M.** 2000. *Cetacean Conservation in West Scotland*. Hebridean Whale and Dolphin Trust, Mull. 85pp.
- **Gill, A.**, Fairbairns, B.R. and Fairbairns, R.S. 1999. Some observations of minke whale (*Balaenoptera acutorostrata*) feeding behaviour and associations with seabirds in the coastal waters of the Isle of Mull, Scotland. *European Research on Cetaceans* 13: 61-64.
- **Jeewoonarain, T.**, **Parsons, E.C.M.** and Evans, P.G.H. 1999. Operation sightings: sightings of cetaceans in the southern Hebrides, Scotland. *European Research on Cetaceans* 13: 237-241.
- **Parsons, E.C.M.**, **Shrimpton, J.** and Evans, P.G.H. 1999. Cetacean conservation in Northwest Scotland: perceived threats to cetaceans. *European Research on Cetaceans* 13: 128-133.
- **Parsons, E.C.M.** and Chan, H.M. 2001. Organochlorine and trace metal concentrations in bottlenose dolphins (*Tursiops truncatus*) from the South China Sea. *Marine Pollution Bulletin*: 780-786.
- **Parsons, E.C.M.**, Overstreet, R.M. and Jefferson, T.A. 2001. Parasites from Indo-Pacific hump-backed dolphins (*Sousa chinensis*) and finless porpoises (*Neophocaena phocaenoides*) stranded in Hong Kong. *Veterinary Record*: 776-780.
- Barros, N.B., Jefferson, T.A. and **Parsons, E.C.M.** 2001. Food habits of finless porpoises (*Neophocaena phocaenoides*) in Hong Kong waters. *Raffles Bulletin of Zoology*: in press.
- Barros, N.B., **Parsons, E.C.M.** and Jefferson, T.A. 2000. Prey of offshore bottlenose dolphins from Hong Kong. *Aquatic Mammals* 26: 2-6.



- **Parsons, E.C.M.** and Jefferson, T.A. 2000. Post-mortem investigations on stranded dolphins and porpoises from Hong Kong waters. *Journal of Wildlife Diseases* 36: 342-356.
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Theses & Dissertations

- **Hughes, A.** 2000. *Tourism as a sustainable industry in the rural community of Arisaig, West Scotland*. Masters thesis. Napier University. 44pp.
 - **Pettigrew, R.** 2001. *Tourism – a sustainable Industry? Exploring the opportunities and threats to rural communities – The Isle of Mull*. Honours Thesis. Edinburgh University. 69pp.
 - **Pooley, S.** 2000. *An identification of potential impacts of military activities on cetaceans in the Hebrides*. Masters thesis. Heriot-Watt University, Edinburgh. 72pp.
 - **Woods-Ballard, A.** 2000. *Whale watching in Scotland, with a case study on the Isle of Skye*. Masters thesis. Edinburgh University. 95pp.
-

Conference Presentations

- Parsons E.C.M.** and **Warburton, C.A.** 2000. Marine wildlife tourism and the economic benefits to island communities. Paper presented at the 6th Islands of the World Conference, 16-20 October 2000, Isle of Skye, Scotland.
- Shrimpton, J.H.** and **Parsons E.C.M.** 2000. A review of environmental threats to cetaceans in West Scotland. Paper presented to the Scientific Committee at the 52nd Meeting of the International Whaling Commission, 11-28 June 2000, Australia.
- Warburton, C.A., Parsons, E.C.M.** and Goodwin, H. 2000. Whale-watching and marine wildlife tourism on the Isle of Mull, Scotland. Paper presented to the Scientific Committee at the 52nd Meeting of the International Whaling Commission, 11-28 June 2000, Australia.
- Barry, S., Parsons, E.C.M., McNee, J., McClellan, R., Evans, P.G.H., and McClellan, L.** 2000. Cetacean sighting distribution in West Scotland in 1999. Paper presented at the 13th Annual Conference of the European Cetacean Society, 2-5 April 2000, Cork, Ireland.
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British Wildlife Articles

- Hickin, V.** 2000. Cetaceans and sealife. *British Wildlife* 12: 49-50.
- Paton, J.** 2000. Cetaceans and sealife. *British Wildlife* 12: 125-126.
- Paton, J.** 2001. Cetaceans and sealife. *British Wildlife* 12: 202-203.
- Paton, J.** 2001. Cetaceans and sealife. *British Wildlife* 12: 276-277.
- Barry, S.** and **Parsons, E.C.M.** 2000. Sealife: West Scotland. *British Wildlife* 11: 356-357.



**THE 2000 HWDT EDUCATION
PROGRAMME was funded by**



**The Jerwood
Charitable
Foundation**

**The J and JR Wilson Charitable Trust
The Kay Parsons Trust
The Findhorn Foundation**

**The 2000 HWDT RESEARCH
PROGRAMME was funded by**

**DEFRA
Department for
Environment,
Food & Rural Affairs**

HWDT ANNUAL ACCOUNTS 2000/2001

INCOME	£
Memberships	3,397
Donations	2,438
Merchandise Sales	13,558
Other Fund-raising	3,638
Grants and Awards	29,808
Miscellaneous Income	3,368
Deposit Account Interest	54
<i>IN KIND INCOME</i>	
Volunteer Salaries	52,000
Donated Equipment	950
Catharijne BV rental	1,800
TOTAL	112,011

EXPENDITURE

PROJECT COSTS

Salaries (incl. in kind)	94,406
Telephone	1,753
Postage & Stationary	4,423
Travel	856
Education Project Expenses	9,337
Sundry Project Costs	3,280

DISCOVERY CENTRE

Rent	2,800
Repairs and Renewals	587
Rates	279
Insurance	536
Heating and lighting	390

MERCHANDISE

Merchandise Purchases	11,863
Monitoring costs	36
Management costs	1,655

FINANCIAL/LEGAL COSTS

Accounting	683
Depreciation	500
Subscriptions	356
Bank Charges	417

TOTAL	134,157
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LOSS FOR YEAR -22,146

