

DISSENTING RECOMMENDATIONS OF SENATOR D. BROWNHILL

Although I was not a member of the Committee when the evidence on cetacea in captivity was taken, I have read the evidence and agree with most of the Committee's findings.

However, I do not agree with the conclusions and recommendations contained in paragraphs 8.8, 8.9 and 8.10, which I prefer to read as follows:

Paragraph 8.8

My recommendation: deletion of the paragraph.

Basis for that opinion: I do not believe the evidence is sufficient for that conclusion to be reached.

Paragraph 8.9

My recommendation:

The Committee recommends that no further permits be issued for the capture of cetacea in Commonwealth or State waters, unless there are adequate scientific or educational reasons for so doing. It further recommends that importation of cetacea from overseas be banned.

Paragraph 8.10

My recommendation:

The Committee recommends that existing oceanaria be allowed to continue keeping cetacea, provided they meet the strict guidelines and national standards proposed in this Report.

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#### Chapter Eight

1. Evidence, p. 2665 and p. 2731.

## APPENDIX 1

### LIST OF WITNESSES WHO APPEARED BEFORE THE COMMITTEE

Abel, Mr G.R., Curator, International Oceanaria Development Co.  
Pty Ltd, Aspendale, Victoria

Abel, Mr R., Managing Director, International Oceanaria  
Development Co. Pty Ltd, Aspendale, Victoria

Anderson, Mr G.R.V., Principal Project Officer and Project  
Coordinator, Whales & Marine Section, Australian National  
Parks and Wildlife Service, Canberra, Australian Capital  
Territory

Barber, Mr P.J., RSPCA Victoria, Burwood East, Victoria

Bossley, Dr M.I., Glenunga, South Australia

Bullen, Mr S.L., Managing Director, African Lion Safari,  
Warragamba, New South Wales

Cane, Mr A.R., Development/Technical Manager, International  
Oceanaria Development Co Pty Ltd, Aspendale, Victoria

Dawbin, Dr W.H., Honorary Research Associate, Australian  
Museum, Sydney, New South Wales

Fordyce, Mrs J., Secretary, Friends of Marine World, Seaford,  
Victoria

Gee, Mr R.W., Acting Director, Australian Agricultural Health  
and Quarantine Service, Canberra, Australian Capital  
Territory

Gregory, Mr A.I., President, Project Jonah, Sydney, New South  
Wales

Hyne, Dr R.H.J., Senior Lecturer, Faculty of Veterinary Science,  
University of Sydney, Sydney, New South Wales

Kaye, Mrs H., Honorary Director, Project Jonah Victoria,  
Hawthorn, Victoria

Kelty, Ms A., National Dolphin Coordinator, Greenpeace  
Australia, Adelaide, South Australia

Lattimer, Mr S.C.J., Head Trainer, Marineland of South  
Australia, West Beach, South Australia

Little, Dr K.B., Veterinary Surgeon, Marineland of South  
Australia, West Beach, South Australia

McEwen, Mr G.J., Chairperson, Australian Federation of Animal  
Societies, Greensborough, Victoria

Meischke, Dr H.R.C., Acting Principal Veterinary Officer,  
Australian Agricultural Health and Quarantine Service,  
Canberra, Australian Capital Territory

Mosley, Dr J.G., Director, Australian Conservation Foundation,  
Hawthorn, Victoria

Porter, Mr R.H., General Manager, West Beach Trust, West Beach,  
South Australia

Richmond, Mr T., Assistant Director, Australian National Parks  
and Wildlife Service, Canberra, Australian Capital Territory

Smith, Miss F., Pittwater, New South Wales

Weir, Mr J.W., President, Friends of Marine World, Seaford,  
Victoria

Whadcoat, Mr J.H., Secretary, Lake Tyers Dolphin Protection  
Group, Lakes Entrance, Victoria  
Whiteside, Dr S.M., Vice President, Project Jonah Victoria,  
Hawthorn, Victoria  
Wirth, Dr H.J., President, RSPCA Victoria, Burwood East,  
Victoria

## APPENDIX 2

### REFERENCES ON CETACEAN MORTALITIES IN OCEANARIA

67 Phocoena Phocoena, harbour porpoises, were collected from Danish waters, 1962-76 mainly from nets and strandings, usually 1/2 - 1 year old. Chlorinated water in a 1000 m<sup>3</sup> tank was used from 1970. 50% of the animals were diseased or high risk. 23 died in the first month of captivity. Maximum longevity in captivity was 39 months. Anderson, op. cit.

In the United Kingdom since the early 1970s there were 55 confirmed imports of Tursiops truncatus. Of the 55, 23 were dead, 17 alive and 15 of status unknown. For the same period 4 orcas were dead, 2 alive, 2 re-exported and 1 of status unknown. The mean longevity in captivity of 11 dead Tursiops was 3.7 years and of 9 live Tursiops was 9.6 years. Arden-Clarke, C., 'A Review of Cetaceans in Captivity With Special Reference to Records to (sic) Delphinids in the United Kingdom', 1984.

In British Columbia and Washington, 263 Orcinus orca were caught between 1962 and 1973. 50 were kept for oceanaria and exhibited in 8 countries. 12 died during capture and the remainder escaped or were released. Survival to the end of 2 years of 48 of the orcas kept in captivity was 75% in immature orcas and 13% in adults. 3 animals still alive after 7 years, 2 months have lived the longest in captivity. Bigg and Wolman, op. cit.

A survey was made of 6 major North American oceanaria holding orcas which had adequate facilities and standards of care. Since 1965, 30 orcas had been held. 3 collected were sick. 17 died in the period 1965 to 1978 of which 13 were females. The female mortality rate was slightly above 7% yearly for females and 2.1% yearly for males. Ridgway, S. 'Reported Causes of Death of Captive Killer Whales (Orcinus orca)', Journal of Wildlife Diseases, Vol. 15, January 1979, pp. 99-104.

Ocean Park, Hong Kong, took between April 1974 and February 1982, 51 Tursiops c.f. T. gilli, 24 Tursiops c.f. T. aduncus, 16 Lagenodelphis hosei, Frasers dolphins, 10 Peponocephala electra, melon headed whales, 7 Globicephala macrorhynchus, short finned pilot whales, 1 orca and 1 Stenella longirostris, long snouted spinner dolphin. Out of 110 animals, 8 remained alive, 12 were released and 8 were transferred. 82 were dead. Most died from the chronic presence of Pseudomonas pseudomallei. Hammond and Leatherwood, op. cit.

21, or 12% of the established European captive population died in 1977. This was a reduction in loss of established animals since 1976, but there was considerable loss among newly captured specimens. 19 established Tursiops truncatus, bottlenose dolphins, died in 1977. Greenwood, Clinical and Pathological Findings in Dolphins in 1977, op. cit.

30 Cetacea were added to European captive stocks in 1978 including 29 Atlantic and Pacific bottlenose dolphins and one killer whale. 18% of the established European captive population died in 1978, including 19 established Tursiops truncatus, 3 established Tursiops gilli, 8 established Sotalia guianensis and 1 Orcinus orca. This estimated total of 31 animals was higher than previous years but was consistent for bottlenose dolphins. Greenwood, Clinical and Pathological Findings in Dolphins in 1978, op. cit.

Captive orcas have an overall mortality rate of 4.7% yearly. The female yearly mortality rate of 7% is significantly higher than for males. Larger females have a shorter captive life span than smaller females. A total of 50 orcas from Washington and British Columbian waters were placed in oceanaria around the world. The majority of exported whales died but the standards of care in these oceanaria were not known. Of 31 orcas kept in North American oceanaria between 1965 and 1975 under acceptable standards promulgated by the Marine Mammal Protection Act 1972, 14 died. Hui and Ridgway, Survivorship Patterns in Captive Killer Whales, op. cit.

132 cetaceans were captured for public display during the period 1966 to 1972 by Marineland of the Pacific, California. Of the 22 Delphinus delphi, common dolphins none had survived by 1974. Only 15% survived the first year. Most mortality - 75% occurred during the first 60 days. Maximum survival was 2 years 7 months. Of 51 Lagenorhynchus obliquidons, Pacific white sided dolphins, 10 remained in 1974. 61% died in the first year, and 5% were lost in the first month. 5 of the 10 have lived in captivity over 8 years. Of 18 Tursiops sp. Pacific bottlenose dolphins, 5 remained alive in 1974. Mortality at the end of the first year was 50%. 5 of 33 Globicephala macrohynchus, short finned pilot whales, were alive in 1974. Maximum longevity was 7 years. 35% mortality occurred within 30 days of capture. 8 Phocoenoides dalli, Dall's porpoises were captured in 1972. 4 died during capture and transportation. 2 died in the first 60 days, one lived for 3 months and the last for 15 months. Walker, op. cit.

278 Tursiops truncatus, Pacific and Atlantic bottlenose dolphins were in captivity in North America in 1979. Average longevity was 6.1 years. 62% of the total had been alive in the 1976 census. 2 Pseudorca crassidens, false killer whales, had an average longevity of 7 years. 50% of the



total had been alive in the 1976 census. 24 orcas had an average longevity of 7.2 years. 58% of the total had been alive in the 1976 census. Of 283 Tursiops truncatus, 1976-1982, 39 had died or 14% of the total. Cornell, Asper and Duffield, op. cit.

Napier Marineland, New Zealand has taken 74 animals captive. 55, including 2 who had stranded, died, 12 were released, 2 were transferred and 1 subsequently died. 4 remain alive and 1 is of status unknown. 50% died within 4 months of capture and 73% within 2 years. All 4 Tursiops truncatus died. Of 26 Lagenorhynchus obscuris, 21 died. Of 38 Delphinus delphis, 25 died. All 4 Cephalorhynchus hectori died. Greenpeace, New Zealand, 1984?

Of 21 dusky dolphins captured for display off Hout Bay, South Africa, between 1961 and 1978 only one survives. The longevity of the dusky dolphin in its natural state is estimated to be 25 - 30 years. Carter, op. cit.

Between 1966 and 1978, Napier Marinelands, New Zealand, had a capture mortality of 68 dolphins not including those which died during capture or transportation. Carter, op. cit.

Since November 1981, 122 orcas have been captured throughout the world for display purposes. At January 1984, 72 were dead, nine had been released, four had escaped and 37 were still alive. Between 1980 and 1983, 26 orcas were captured. At January 1984, eight were dead, 16 alive and two had escaped. Submission 241B (Project Jonah).

In Europe, of 172 animals, 64 are still alive, 54 are dead, 22 have been released and 32 are status unknown. Submission 457 (Greenpeace).