THE SCIENTIFIC REPORTS OF THE WHALES RESEARCH INSTITUTE, TOKYO, JAPAN

NUMBER 1, JUNE 1948

Akiya, S. and S. Tejima. Studies on digestive enzyme in whale. 3-7

Akiya, S., Y. Ishikawa, S. Tejima, and T. Tanzawa. Studies on tryptase from a whale (Balaenoptera borealis L.). 8-10

Akiya, S., S. Tejima, and Y. Ishikawa. Studies on the utilization of whale meat by the use of pancreatic tryptase of whales. 11-14

Akiya, S. and F. Kobo. The test culture of some microorganisms with whale meat peptone. 15-16

Nakai, T. Chemical studies on the freshness of whale meat. I. Evaluation of freshness and changes in quantity of several kinds of nitrogen in whale meat following deterioration of freshness. 17-26

Nakai, T. Chemical studies on the freshness of whale meat. II. On comparison between whale meat and beef on deterioration of freshness and autolysis. 27-30

Tawara, T. On the simultaneous extraction of vitamin A-D and vitamin B₂ complex from the liver of a fin whale (Nagasu-Kujira, *Balaenoptera physalus* L.). 31-37

Tawara, T. Studies on whale blood. I. On the separation of histidine from whale blood. 38-40 Nakai, J. and T. Shida. Sinus-hairs of the sei-whale (*Balaenoptera borealis*). 41-47

NUMBER 2, DECEMBER 1948

Ogawa, T. and S. Arifuku. On the acoustic system in the cetacean brains. 1-20

Yamada, M. Auditory organ of the whalebone whales. (Preliminary report). 21-30

Nakai, T. Chemical studies on the freshness of whale meat. III. Effect of hydrogen-ion concentration on decrease in freshness and titration curve of whale meat with HCl and Na₂CO₂. 31-34

Ishikawa, S., Y. Omote, and Y. Soma. Analytical distillation of vitamin A in the whale liver oil. 35–41 Ishikawa, S., Y. Omote, and H. Kanno. Molecular distillation of sperm whale blubber oil. 42-45

Kaneko, A. Molecular distillation of fin whale liver oil. 46-50

Akiya, S. and K. Takahashi. Determination of tryptophane in whale meat. 51-54

Ishikawa, Y. and S. Tejima. Protein digestive power of sperm whale pancreatic enzyme. 55-60

Tsukamoto, S. Experiment on digestion of whale meat by koji-mould. 61-66

NUMBER 3, FEBRUARY 1950

Ogawa, T. and T. Shida. On the sensory tubercles of lips and of oral cavity in the sei and the fin whale. 1-16

Ohe, T. Distribution of the red marrow in bones of the fin whale. 17-22

Hosokawa, H. On the cetacean larynx, with special remarks on the laryngeal sack of the sei whale and the aryteno-epiglottideal tube of the sperm whale. 23-62

Akiba, T., T. Tsuchiya, M. Umehara, and Y. Natsume. Bacteriological studies on freshness of whale meat. (Report No. 1). 63-70

Ishikawa, Y. Protein digestive power of sperm whale pancreatic enzyme. II. 71-78

Mori, T. and M. Saiki. Properties of fats and oils contained in various parts of a sperm whale body. 79-84

Tawara, T. and R. Fukazawa. Studies on kitol. I. Preparation of kitol from whale liver oil. 85-88

Tawara, T. and R. Fukazawa. Studies on kitol. II. Influence of kitol fraction on the determination of the International Unit of Vitamin A. 89-91

Tawawa, T. and R. Fukazawa. Studies on kitol. III. The effect of sunlight, air and heat on the vitamin A and kitol fractions. 92-95

ii

Tawara, T. On the respiratory pigments of whale (Studies on whale blood II.). 96-101

Yoshida, M. Research on methionine in whale. 102-105

Mizue, K. Factory ship whaling around Bonin Islands in 1948. 106-118

Mizue, K. and H. Jimbo. Statistic study of foetuses of whales. 119-131

Nishiwaki, M. and K. Hayashi. Biological survey of fin and blue whales taken in the Antarctic season 1947-48 by the Japanese fleet. 132-190

NUMBER 4, AUGUST 1950

Omura, H. On the body weight of sperm and sei whales located in the adjacent waters of Japan. 1-13 Omura, H. Diatom infection on blue and fin whales in the Antarctic whaling area V (the Ross Sea area). 14-26

Omura, H. Whales in the adjacent waters of Japan. 27-113

Nishiwaki, M. Determination of the age of Antarctic blue and fin whales by the colour changes in crystalline lens. 115-161

Nishiwaki, M. Age characteristics in baleen plates. 162-183

Nishiwaki, M. On the body weight of whales. 184-209

NUMBER 5, JUNE 1951

- Akiba, T., M. Umehara and Y. Natsume. Bacteriological studies on freshness of whale meat. (Report No. II.). 1-4
- Hosokawa, H. On the pelvic cartilages of the Balaenoptera-foetuses, with remarks on the specifical and sexual difference. 5-15
- Ohe, T. Iconography on the abdominal cavity and viscera of the Balaenoptera, with special remarks upon the peritoneal coverings. 17-39
- Akiya, S. and O. Hoshino. Isolation of histidine from whale blood using 3,4-dichlorobenzene sulfonic acid. 41-47
- Tawara, T. and R. Fukazawa. Studies on kitol. IV. Purification of kitol by chromatographic. 49-51

Ishikawa, S., Y. Omote and H. Okuda. Substances related to vitamin A in the whale liver oil. 53-59

Ishikawa, S., Y. Omote, M. Kijima and H. Okuda. Thermal decomposition of kitol. 61-69

Mizue, K. Grey whales in the east sea area of Korea. 71-79

Mizue, K. Food of whales (In the adjacent waters of Japan). 81-90

Nishiwaki, M. and T. Ohe. Biological investigation on blue whales (Balaenoptera musculus) and fin whales (Balaenoptera physalus) caught by the Japanese Antarctic whaling fleets. 91-167

NUMBER 6, DECEMBER 1951

Hosokawa, H. On the extrinsic eye muscles of the whale, with special remarks upon the innervation and function of the musculus retractor bulbi. 1-33

Murata, T. Histological studies on the respiratory portions of the lungs of cetacea. 35-47

Kojima, T. On the brain of the sperm whale (Physeter catodon L.). 49-72

Mizue, K. and T. Murata. Biological investigation on the whales caught by the Japanese Antarctic whaling fleets season 1949-50. 73-131

Nishiwaki, M. On the periodic mark on the baleen plates as the sign of annual growth. 133-152

- Nishiwaki, M. and T. Hibiya. On the sexual maturity of the sperm whales (*Physeter catodon*) found in the adjacent waters of Japan (I). 153-165
- Nakai, T. Chemical studies on freshness of whale meat. IV. Some informations of Archomobacter ubiquitum isolated from whale carcass. 167-176
- Nakai, T. and H. Ono. The effects of electric shock and fatigue on post-mortem changes in muscle. 177-185

Omote, Y. Complete recovery of vitamin A from molecular distillation residue of whale-liver oil. 187-191

Omote, Y. Chemical structure of kitol (I). Double bonds and hydroxyl groups. 193-198

Hirata, M. Experimental investigation on flattened head harpoon. An attempt for restraining ricochet. 199-207

NUMBER 7, JULY 1952

- Ogawa, T. On the cardiac nerves of some cetacea, with special reference to those of *Berardius bairdii* Stejneger. 1-22
- Akiya, S., O. Hoshino and N. Motohashi. On an attempt to preserve whale meat freshness with 5-nitrofurfuriden aminoguanidine from decay. 23-30
- Akiya, S. and R. Sawamura. Colorimetric determination of 5-nitro-2-furfuridene aminoguanidine. 31-36

Tomiyama, S. and M. Takao. Studies on utilization of higher fatty alcohol from sperm whale oil. 37-46

Omote, Y. A rapid method for the separate determination of vitamin A and kitol in the whale-liver oil. 47-50

Arai, Y. and S. Sakai. Whale meat in nutrition. 51-67

- Yamaguchi, K. and K. Fujino. On the serological constitution of striped dolphin (*Prodelphinus caeruleoalbus* (Meyen)) (I). 67-77
- Nishimoto, S., M. Tozawa and T. Kawakami, Food of sei whales (Balaenoptera borealis) caught in the Bonin Island waters. 79-85
- Nishiwaki, M. On the age-determination of Mystacoceti, chiefly blue and fin whales. 87-119
- Nishiwaki, M. and T. Hibiya. On the sexual maturity of the sperm whales (*Physeter catodon*) found in the adjacent waters of Japan (II). 121-124
- Ohno, M. and K. Fujino. Biological investigation on the whales caught by the Japanese Antarctic whaling fleets, season 1950/51. 125-183

NUMBER 8, JUNE 1953

Yamada, M. Contribution to the anatomy of the organ of hearing of whales. 1-79

Omura, H. Biological study on humpback whales in the Antarctic whaling areas IV and V. 81-102

Fujino, K. On the serological constitutions of the sei-, fin-, blue- and humpback-whales (I). 103-125

Ogawa, T. On the presence and disappearance of the hind limb in the cetacean embryos. 127-132

- Nishiwaki, M. and T. Yagi. On the age and the growth of teeth in a dolphin (Prodelphinus caeruleo-albus). (1). 133-146
- Kakuwa, Z., T. Kawakami and K. Iguchi. Biological investigation on the whales caught by the Japanese Antarctic whaling fleets in the 1951-52 season. 147-213

Nishiwaki, M. Hermaphroditism in a dolphin (Prodelphinus caeruleo-albus). 215-218

NUMBER 9, JUNE 1954

- Akiya, S., O. Hoshino and N. Motohashi. Attempt to preserve freshness of whale meat with germicides. II. 1-10
- Ogawa, T. On the musculature of the sinus venosus and its continuation with the so-called conducting system of the whale's heart. 11-35
- Yamada, M. Some remarks on the pygmy sperm whale, Kogia. 37-58

Yamada, M. An account of a rare porpoise, Feresa Gray from Japan. 59-88

Omura, H. and K. Fujino. Sei whales in the adjacent waters of Japan. II. Further studies on the external characters. 89–103

Fujino, K. On the serological constitution of the sperm- and Baird beaked-whales (I) Blood groups of the sperm- and Baird beaked-whales. 105-120

Fujino, K. On the body proportions of the fin whales (Balaenoptera physalus (L)) caught in the northern Pacific Ocean (I) (Preliminary report). 121-163

- Nishiwaki, M., T. Hibiya and S. Kimura. On the sexual maturity of the sei whale of the Bonin waters. 165-177
- Uda, M. Studies of the relation between the whaling grounds and the hydrographical conditions (I). 179-187

NUMBER 10, JUNE 1955

Hosokawa, H. Cross-sections of a 12-mm. dolphin embryo. 1-68

Nemoto, T. White scars on whales (I) Lamprey marks. 67-77

- Omura, H. and T. Nemoto. Sei whales in the adjacent waters of Japan. III. Relation between movement and water temperature of the sea. 79-87
- Omura, H., K. Fujino and S. Kimura. Beaked whale Berardius bairdi of Japan, with notes of Ziphius cavirostris. 89-132

Fujino, K. On the body weight of the sei whales located in the adjacent waters of Japan (II.) 133-141

Nishiwaki, M. On the sexual maturity of the Antarctic male sperm whale (Physeter catodon L.). 143-149

Ohta, K., T. Watarai, T. Oishi, Y. Ueshiba, S. Hirose, T. Yoshizawa, Y. Akikusa, M. Satô and K. Okano, Composition of fin whale milk. 151-167

NUMBER 11, JUNE 1956

Omura, H. and H. Sakiura. Studies on the little piked whale from the coast of Japan. 1-37

- Nishiwaki, M., T. Hibiya and S. Kimura. On the sexual maturity of the sperm whale (*Physeter catodon*) found in the North Pacific. 39-46
- Fujino, K. On the body proportions of the sperm whales (Physeter catodon). 47-83
- Fujino, K. On the serological constitution of the fin whales II. Further studies on blood groups. 85-98 Nemoto, T. On the diatoms of the skin film of whales in the northern Pacific. 99-132
- Hoshina, T. and Y. Sugiura. On a skin disease and a nematode parasite of a dolphin, *Tursiops truncatus* (Montagu, 1821). 133-138
- Iwai, E. Descriptions on unidentified species of dibranchiate cephalopods. I. An oegopsiden squid belonging to the genus Architeuthis. 139-151
- Iwai, E. Descriptions on unidentified species of dibranchiate cephalopods. II. A cranchiidae squid of the genus Taonius. 153-161
- Uda, M. and K. Nasu. Studies of the whaling grounds in the northern sea-region of the Pacific Ocean in relation to the meteorological and oceanographic conditions. (Part I). 163-179

Kimura, S. and T. Nemoto. Note on a minke whale kept alive in aquarium. 181-189

Ishikawa, Y. A characteristic property of whale oils concerning the absorption of gases. I. On the absorption of carbon dioxide by whale oils. 191-213

NUMBER 12, JUNE 1957

Omura, H. Osteological study of the little piked whale from the coast of Japan. 1-21

Nishiwaki, M. Age characteristics of ear plugs of whales. 23-32

Nemoto, T. Foods of baleen whales in the northern Pacific. 33-89

- Nasu, K. Oceanographic conditions of the whaling grounds in the waters adjacent to Aleutian Islands and the Bering Sea in summer of 1955. 91-101
- Kimura, S. The twinning in southern fin whales. 103-125
- Ichihara, T. An application of linear discriminant function to external measurements of fin whale. 127–189

Nishiwaki, M. Very small embryo of cetacea. 191-192

Nishiwaki, M. One-eyed monster of fin whale. 193-195

Ogawa, T. and T. Kamiya. A case of the cachalot with protruded rudimentary hind limbs. 197-208

- Uda, M. and A. Dairokuno. Studies of the relation between the whaling grounds and the hydrographic conditions. II. A study of the relation between the whaling grounds off Kinkazan and the boundary of water masses. 209-224
- Abe, T. Notes on fishes from the stomachs of whales taken in the Antarctic. I. *Xenocyttus nemotoi*, a new genus and new species of zeomorph fish of the subfamily *Oreosonimae* Goode and Bean, 1895. 225-233
- Tsuyuki, H. On the oils contained in various blubbers of northern elephant seal, Mirounga angustirostris. 235-240

NUMBER 13, SEPTEMBER 1958

Omura, H. North Pacific right whale. 1-52

Nishiwaki, M. and T. Kamiya. A beaked whale Mesoplodon stranded at Oiso Beach, Japan. 53-83

- Nishiwaki, M. and C. Handa. Killer whales caught in the coastal waters off Japan for recent 10 years. 85-96
- Ohsumi, S. (Kimura), M. Nishiwaki and T. Hibiya. Growth of fin whale in the northern Pacific. 97-133

Nishiwaki, M., T. Hibiya and S. Ohsumi (Kimura). Age study of sperm whale based on reading of tooth laminations. 135-153

Nishiwaki, M., T. Ichihara and S. Ohsumi (Kimura). Age studies of fin whale based on ear plug. 155-169

Fujino, K. On the serological constitution of fin whale. III. Human B blood group substances in erythrocytes and some notes on anti-fin Ju specific antibodies. 171-184

Nemoto, T. Cocconeis diatoms infected on whales in the Antarctic. 185-191

Nemoto, T. and K. Nasu. Thysanoessa macrura as a food of baleen whales in the Antarctic. 193-199

Ichihara, T. Gray whale observed in the Bering Sea. 201-205

Ohsumi, S. (Kimura). A descendant of Moby Dick or a white sperm whale. 207-209

Nasu, K. Deformed lower jaw of sperm whale. 211-212

Omura, H. Note on embryo of Baird's beaked whale. 213-214

Uda, M. and N. Suzuki. Studies of the relation between the whaling grounds and the hydrographic conditions. III. The averaged conditions of the whaling grounds and their trends of variation during 1946-55. 215-229

Seki, Y. Observations on the spinal cord of the right whale. 231-251

Kamiya, T. How to count the renculi of the cetacean kidneys, with special regard to the kidney of the right whale. 253-267

Hosokawa, H. and T. Sekino. Comparison of the size of cells and some histological formations between whales and man. 269-301

Ogawa, T., T. Tsunoda and M. Osawa. Amino acid composition of whale meat. 303-307

Ishikawa, Y. A characteristic property of whale oils concerning the absorption of gases. II. On the absorption of nitrogen by whale oils. 309-321

Tsuyuki, H. Component fatty acids of northern elephant seal oil. 323-332

NUMBER 14, SEPTEMBER 1959

Omura, H. Bryde's whale from the coast of Japan. 1-33

Nishiwaki, M. and T. Kamiya. Mesoplodon stejenegeri from the coast of Japan. 35-48

Nishiwaki, M. Humpback whales in Ryukyuan waters. 49-87

Cushing, John E., K. Fujino and K. Takahashi. Glycerol-freezing technique as an aid in blood typing of whales. 89-100 Fujino, K. and John E. Cushing. Blood typing of dried whale erythrocytes with ¹³¹I labelled antibody. 101-106

Ichihara, T. Formation mechanism of ear plug in baleen whales in relation to glove-finger. 107-135

Nasu, K. Surface water condition in the Antarctic whaling Pacific area in 1956-57. 137-143 Ohsumi, S. (Kimura). A deformed fin whale foetus. 145-147

Nemoto, T. Food of baleen whales with reference to whale movements. 149-290

Yamada, M. and F. Yoshizaki. Osseous labyrinth of cetacea. 291-304

Nakai, T. Distribution of amino acid in proteins from various parts of whale body. 305-326

NUMBER 15, NOVEMBER 1960

Nishiwaki, M. Ryukyuan humpback whaling in 1960. 1-16

Ohsumi, S. Relative growth of the fin whale, Balaenoptera physalus (Linn.). 17-84

Fujino, K. Immunogenetic and marking approaches to identifying subpopulations of the North Pacific whales. 85-142

Nasu, K. Oceanographic investigation in the Chukchi Sea during the summer of 1958. 143-158

Tokita, K. and ECG Research Group. Electrocardiographical studies on bottlenosed dolphin (Tursiops truncatus). 159-165

NUMBER 16, MARCH 1962

Omura, H. Bryde's whale occurs on the coast of Brazil. 1-5

Omura, H. Further information on Bryde's whale from the coast of Japan. 7-18

Nishiwaki, M. Ryukyuan whaling in 1961. 19-28

Nemoto, T. A secondary sexual character of fin whales. 29-34

Omura, H., M. Nishiwaki, T. Ichihara and T. Kasuya. Osteological note of a sperm whale. 35-45

Ichihara, T. Prenatal dead foetus of baleen whales. 47-60

Nishiwaki, M. Mesoplodon bowdoini stranded at Akita Beach, Sea of Japan. 61-77

Nishiwaki, M. Observation on two mandibles of Mesoplodon. 79-82

Sinclair, John. An early dolphin embryo (Stenella caeruleoalbus) in serial sections. 83-87

Nemoto, T. Food of baleen whales collected in recent Japanese Antarctic whaling expeditions. 89-103

Uda, M. Subarctic oceanography in relation to whaling and salmon fisheries. 105-119

NUMBER 17, FEBRUARY 1963

Nishiwaki, M., S. Ohsumi and T. Maeda. Change of form in the sperm whale accompanied with growth. 1-14

Ohsumi, S., T. Kasuya and M. Nishiwaki. The accumulation rate of dentinal growth layers in the maxillary tooth of the sperm whale. 15-35

Ichihara, T. Photometric method for counting laminae in ear plug of baleen whale. 37-48

Yoshikawa, T. and T. Suzuki. The lamination of the masseter of the humpback whale. 49-52

Fujino, K. Intra-uterine selection due to maternal-foetal in compatibility of blood type in the whales. 53-65

Cushing, John E., K. Fujino and N. Calaprice. The Ju blood typing system of the sperm whale and specific soluble substances. 67-77

Nemoto, T. New records of sperm whales with protruded rudimentary hind limbs. 79-81

Nemoto, T. and K. Nasu. Stones and other aliens in the stomachs of sperm whales in the Bering Sea. 83-91

Nishiwaki, M. Taxonomical consideration on genera of Delphinidae. 93-103

Nasu, K. Oceanography and whaling ground in the subarctic region of the Pacific Ocean. 105-155

Nemoto, T. Some aspects of the distribution of *Calanus cristatus* and *C. plumchrus* in the Bering and its neighbouring waters, with reference to the feeding of baleen whales. 157-170

Tsuyuki, H. and U. Naruse. Studies on the oil of black right whale in the northern Pacific Ocean. 171-190

Yagi, T., M. Nishiwaki and M. Nakajima. A preliminary study on the method of time marking with leadsalt and tetracycline on the teeth of northern fur seal. 191-195

NUMBER 18, MARCH 1964

Fujino, K. Fin whale subpopulations in the Antarctic whaling areas II, III and IV. 1-27

Ichihara, T. Prenatal development of ear plug in baleen whales. 29-48

Ohsumi, S. Examination on age determination of the whale. 49-88

Nemoto, T. School of badeen whales in the feeding areas. 89-110.

Okutani, T. and Nemoto, T. Squids as the food of sperm whales in the Bering Sea and Alaskan Gulf. 111-122

Ohsumi, S. Comparison of maturity and accumulation rate of corpora albicantia between the left and right ovaries in cetacea. 123-148

Omura, H. A systematic study of the hyoid bones in the baleen whales. 149-170

Nishiwaki, M. Revision of the article "Taxonomical consideration on genera of *Delphinidae*" in No. 17. 171-172

Tsuyuki, H. and U. Naruse. Studies on the lipids in brain of black right whale in the northern Pacific Ocean. 173-180

NUMBER 19, APRIL 1965

Ohsumi, S. Reproduction of the sperm whale in the north-west Pacific. 1-35

Kasuya, T. and T. Ichihara. Some informations on minke whales from the Antarctic. 37-43

Nemoto, T. and T. Kasuya. Foods of baleen whales in the Gulf of Alaska of the North Pacific. 45-51

Nishiwaki, M., M. Nakajima and T. Kamiya. A rare species of dolphin (Stenella attenuata) from Arari, Japan. 53-64

Nishiwaki, M., T. Kasuya, T. Tobayama, T. Kamiya and M. Nakajima. Feresa attenuata captured at the Pacific Coast of Japan in 1963. 65-90

Nakajima, M. and M. Nishiwaki. The first occurrence of a porpoise (Electra electra) in Japan. 91-104

Hosokawa, H. and T. Kamiya. Sections of the dolphin's head (Stenella caeruleoalba). 105-133

Ohsumi, S. A dolphin (Stenella caeruleoalba) with protruded rudimentary hind limbs. 135-136

NUMBER 20, SEPTEMBER 1966

Ohsumi, S. Sexual segregation of the sperm whale in the North Pacific. 1-16

Ichihara, T. Criterion for determining age of fin whale with reference to ear plug and baleen plate. 17-82

Kasuya, T. Caryotype of a sei whale. 83-88

Kasuya, T. and S. Ohsumi. A secondary sexual character of the sperm whale. 89-94

Nishiwaki, M. and K. S. Norris. A new genus, Peponocephala, for the odontoceti cetacean species Electra electra. 95-100

Nishiwaki, M., M. Nakajima and T. Tobayama. Preliminary experiments for dolphin marking. 101-107

Nemoto, T. Thysanoessa euphausiids, comparative morphology, allomorphosis and ecology. 109-155

Nasu, K. Fishery oceanographic study on the baleen whaling grounds. 157-210

Ichihara, T. and M. Nishiwaki. External measurements and weight of a southern elephant seal. 211-212

Tsuyuki, H. and S. Itoh. Studies on the oils contained in blubber of a southern elephant seal. 213-221

NUMBER 21, JUNE 1969

Omura, H., S. Ohsumi, T. Nemoto, K. Nasu and T. Kasuya. Black right whales in the North Pacific. 1-78

Nishiwaki, M. and Y. Hasegawa. The discovery of the right whale skull in the Kisagata shell bed. 79-84 Ohsumi, S. Occurrence and rupture of varginal band in the fin, sei, and blue whales. 85-94

Hosokawa, H., S. Igarashi, T. Kamiya and K. Hirosawa. Morphological characteristics and myelinization of acoustic system in the dolphins (Stenella caeruleoalba). 95-123

Mol, T. and P.J.H. van Bree. A short contribution to the history of whaling in Japan during the 17th century. 125-129

Tsuyuki, H. and S. Itoh. Fatty acid composition of finless porpoise oil. 131-135.

Tsuyuki, H. and S. Itoh. Fatty acid composition of many toothed pilot whale oil. 137-141

NUMBER 22, JUNE 1970

Omura, H., T. Ichihara and T. Kasuya. Osteology of pygmy blue whale with additional information on external and other characteristics. 1-27

Nishiwaki, M. and T. Kasuya. Recent record of gray whale in the adjacent waters of Japan and a consideration on its migration. 29-37

Kasuya, T. and D. W. Rice. Note on baleen plates and on arrangement of parasitic barnacles of gray whale. 39-43

Nishiwaki, M. and T. Kasuya. A Greenland right whale caught at Osaka Bay. 45-62

Nasu, K. and Y. Masaki. Some biological parameters for stock assessment of the Antarctic sei whale. 63-74

Ohsumi, S., Y. Masaki and A. Kawamura, Stock of the Antarctic minke whale. 75-125

Kawamura, A. Food of sei whale taken by Japanese whaling expeditions in the Antarctic season 1967/68. 127-152

Nemoto, T. and K. I. Yoo. An amphipod, Parathemisto gaudichaudii as a food of the Antarctic sei whale. 153-158

Tobayama, T., S. Uchida and M. Nishiwaki. Twin foctuses from a blue white dolphin. 159-162

Machida, S. A sword-fish sword found from a North Pacific sei whale. 163-164

Tsuyuki, H. and S. Itoh. Fatty acid components of black right whale oil by gas chromatography. 165-170

NUMBER 23, SEPTEMBER 1971

Ohsumi, S. Some investigations on the school structure of sperm whale. 1-25

Kawamura, A. Influence of chasing time to stomach contents of baleen and sperm whales. 27-36

Kasuya, T. Consideration of distribution and migration of toothed whales off the Pacific coast of Japan based upon aerial sighting record. 37-60

Omura, H. A comparison of the size of vertebrae among some species of the baleen whales with special reference to whale movements. 61-69

Omura, H., M. Nishiwaki and T. Kasuya. Further studies on two skeletons of the black right whale in the North Pacific. 71-81

Nishiwaki, M. and T. Kasuya. Osteological note of an Antarctic sei whale. 83-89

Hosokawa, H. and T. Kamiya. Some observations on the cetacean stomachs, with special considerations on the feeding habits of whales. 91-101

Lugassy, A. A., E. Korostoff and J. L. Rabinowits. Influence of incremental lines upon the compressive strength of sperm whale dentin. 103-110

Nishiwaki, M. and N. Oguro. Baird's beaked whales caught on the coast of Japan in recent 10 years. 111-122

Mizue, K., M. Nishiwaki and A. Takemura. The underwater sound of Ganges river dolphins (*Platanista gangetica*). 123-128

Kasuya, T. and M. Nishiwaki. First record of Mesoplodon densirostris from Formosa. 129-137

Kawamura, A. and K. Kashita. A rare double monster of dolphin, Stenella caeruleoalba. 139-140

Tsuyuki, H. and S. Itoh. Fatty acid components of Ganges river dolphin oil. 141-147

NUMBER 24, NOVEMBER 1972

Omura, H. An osteological study of the Cuvier's beaked whale, Ziphius cavirostris, in the northwest Pacific. 1-34

Nishiwaki, M. and N. Oguro. Catch of the Cuvier's beaked whales off Japan in recent years. 35-41

Nishiwaki, M., T. Kasuya, K. Kureha and N. Oguro. Further comments of Mesoplodon gingkodens. 43-56

Kasuya, T. Growth and reproduction of *Stenella caeruleoalba* based on the age determination by means of dentinal growth layers. 57-79

Kasuya, T. and N. Oguro. A new tagging method of dolphins. 81-85

Kasuya, T. Some informations on the growth of the Ganges dolphin with a comment on the Indus dolphin. 87-108

Kasuya, T. and A.K.M. Aminul Haque. Some informations on the distribution and seasonal movement of the Ganges dolphin. 109-115

Tsuyuki, H. and S. Itoh. Fatty acid component of various blubber oil of Ganges River dolphin. 117-125

Naito, Y. and M. Nishiwaki. The growth of two species of the harbour seal in the adjacent waters of Hokkaido. 127-144

Ichihara, T. and K. Yoshida. Diving depth of northern fur seals in the feeding time. 145-148

NUMBER 25, SEPTEMBER 1973

- Kasuya, T. Systematic consideration of recent toothed whales based on the morphology of tympanoperiotic bone. 1-103
- Omura, H. A review of pelagic whaling operations in the Antarctic based on the effort and catch data in 10° squares of latitude and longitude. 105-203
- Nasu, K. Results of whale sighting by Chiyoda Maru No. 5 in the Pacific sector of the Antarctic and Tasman Sea in the 1966/67 season. 205-217
- Kawamura, A. Food and feeding of sei whale caught in the waters south of 40°N in the North Pacific. 219-236

Ohsumi, S. Find of marlin spear from the Antarctic minke whales. 237-239

- Seki, Y. An anatomical study on the lower extension of the dorasl vagal nucleus to the upper cervical cord in the sperm whale. 241-249
- Tobayama, T., M. Nishiwaki and H. C. Yang. Records of the Fraser's Sarawak dolphin (Lagenodelphis hosei) in the western North Pacific. 251-263

Miyazaki, N., T. Kusaya and M. Nishiwaki. Food of Stenella caeruleoalba. 265-275

Nishiwaki, M. Possible vestigial teats of killer whale. 277-278

Williamson, G. R. Counting and measuring baleen and ventral grooves of whales. 279-292

Tsuyuki, H. and S. Itoh. Fatty acid component of blubber oil of Amazon River dolphin. 293-299

Naito, Y. Comparison in colour pattern of two species of harbour seal in adjacent waters of Hokkaido. 301-310

NUMBER 26, NOVEMBER 1974

Omura, H. Possible migration route of the gray whale on the coast of Japan. 1-14

Satake, Y. and H. Omura. A txonomic study of the minke whale in the Antarctic by means of hyoid bone. 15-24

Kawamura, A. Food and feeding ecology in the southern sei whale. 25-144

McCann, C. Body scarring on cetacea-odontocetes. 145-155

- Kasuya, T., N. Miyazaki and W. H. Dawbin. Growth and reproduction of *Stenella attenuata* in the Pacific coast of Japan. 157-226
- Miyazaki, N., T. Kasuya and M. Nishiwaki. Distribution and migration of two species of Stenella in the Pacific coast of Japan. 227-243

Kamiya, T. and P. Pirlot. Brain morphogenesis in Stenella coeruleoalba. 245-253

Castello, H. P., A. P. Tomo and J. S. Panizza. First Antarctic record of a killer whale stranding. 255-258

Kamiya, T. and N. Miyazaki. A malformed embryo of Stenella coeruleoalba. 259-263

Kamiya, T. and F. Yamasaki. Organ weights of Pontoporia blainvillei and Platanista gangetica (Platanistidae). 265-270

Machida, S. Surface temperature field in the Crozet and Kerguelen whaling grounds. 271-287

Machida, S. The voyage of the Konan Maru No. 16 to the Antarctic whaling grounds. 289-302

Itoh, S. and H. Tsuyuki. Fatty acid component of different blubber oil of finless porpoise. 303-306

Itoh, S. and H. Tsuyuki. Fatty acid component of Senegal manatee fats. 309-311

Naito, Y. The hyoid bones of two kinds of harbour seals in the adjacent waters of Hokkaido. 313-320

NUMBER 27, SEPTEMBER 1975

Omura, H. Osteological study of the minke whale from the Antarctic. 1-36

Williamson, G. R. Minke whales off Brazil. 37-59

Kawamura, A. A consideration on an available source of energy and its cost for locomotion in fin whales with special reference to the seasonal migrations. 61-79

Kasuya, T. and M. Nishiwaki. Recent status of the population of Indus dolphin. 81-94

Kasuya, T. Past occurrence of Globicephala melaena in the western North Pacific. 95-108

McCann, C. A study of the genus Berardius Duvernoy. 111-137

Nishiwaki, M. and K. Kureha. Strange organ in the anal region of the finless porpoise. 139-140 Machida, S. Distribution of sperm whale catches in the southern Indian Ocean. 141-159

NUMBER 28, OCTOBER 1976

Kawamura, A. and Y. Satake. Preliminary report on the geographical distribution of the Bryde's whale in the North Pacific with special reference to the structure of the filtering apparatus. 1-35

Pivorunas, A. A mathematical consideration on the function of baleen plates and their fringes. 37-55

Omura, H. and T. Kasuya. Additional information on skeleton of the minke whale from the Antarctic. 57-68

Omura, H. A skull of the minke whale dug out from Osaka. 69-72

Kasuya, T. Reconsideration of life history parameters of the spotted and striped dolphins based on cemental layers. 73-106

McCann, C. Notes on the foetal skull of Mesoplodon stejnegeri. 107-117

Gianuca, N. M. and H. P. Castello. First record of the southern bottlenose whale, Hyperoodon planifrons from Brazil. 119-126

Brownell, R. L. Jr., L. A. Aguayo and N. D. Torres. A Shepherd's beaked whale, *Tasmacetus shepherdi*, from the eastern South Pacific. 127-128

Brownell, R. L. Jr. and R. Praderi. Records of the delphinid genus Stenella in western South Atlantic

waters. 129-135

- Yamasaki, F., H. Satomi and T. Kamiya. An observation on the papillary projections at the lingual margin in the striped dolphin. 137-140
- Kasuya, T. and N. Miyazaki. An observation of epimeletic behavior of Lagenorhyncus obliquidens. 141-143
- Kawakami, T. Squids found in the stomach of sperm whales in the northwestern Pacific. 145-151
- Leung, Y. M. Life cycle of *Cvamus scammoni* (Amphipoda: Cyamidae), ectoparasite of gray whale, with a remark on the associated species. 153-160
- Kagei, N., T. Tobayama and Y. Nagasaki. On the helminthum of Franciscana, Pontoporia blainvillei. 161-166
- Tsuyuki, H. and S. Itoh. Fatty acid component of lipid of Euphausia superba. 167-174
- Naito, Y. The occurrence of the phocid seals along the coast of Japan and possible dispersal of pups. 175-185
- Naito, Y. and M. Oshima. The variation in the development of pelage of the ribbon seal with reference to the systematics. 187-197

NUMBER 29, DECEMBER 1977

Kasuya, T. Age determination and growth of the Baird's beaked whale with a comment on the fetal growth rate. 1-20

Miyazaki, N. On the growth and reproduction of Stenella coeruleoalba off the Pacific coast of Japan. 21-48

Kawamura, A. On the food of Bryde's whales caught in the South Pacific and Indian Oceans. 49-58

- Herman, L. M. and R. C. Antinoja. Humpback whales in the Hawaiian breeding waters: population and pod characteristics. 59-85
- Aminul Haque, A.K.M., M. Nishiwaki, T. Kasuya and T. Tobayama. Observations on the behaviour and other biological aspects of the Ganges susu, *Platanista gangetica*. 87-94
- Yamasaki, F., S. Komatsu and T. Kamiya. A comparative morphology of anal tonsils in Platanistidae. 95-100
- Nemoto, T., R. L. Brownell, Jr. and T. Ishimaru. Coconeis diatom on the skin of Franciscana. 101-105
- Castello, H. P. Food of a killer whale: Eagle sting-ray, Myliobatis found in the stomach of a stranded Orcinus orca. 107-111
- Nishiwaki, M. and A. Sasao. Human activities disturbing natural migration routes of whales. 113-120
- Yoshida, K., N. Baba, M. Oya and K. Mizue. On the formation and regression of corpus luteum in the northern fur seal ovaries. 121-128
- Abe, H., Y. Hasegawa and K. Wada. A note on the air-sac of ribbon seal. 129-135
- Kawamura, A. and T. Furuno. On the northern extremes of pack ice observed by whaling vessels in the summer of the Antarctic seasons 1957/58-1962/63. 137-141

NUMBER 30 DECEMBER 1978

Kasuya, T. The life history of Dall's porpoise with special reference to the stock off the Pacific coast of Japan. 1-64

Miyazaki, N. and M. Nishiwaki. School structure of the striped dolphin off the Pacific coast of Japan. 65-116

- Clarke, R., A. Aguayo L. and S. B. del Campo. Whale observation and whale marking off the coast of Chile in 1964. 117-178
- Miyazaki, N. and S. Wada. Observation of cetacea during whale marking cruise in the western tropical Pacific, 1976. 179-196

Goodall, R. N. P. Report on the small cetaceans stranded on the coasts of Tierra del Fuego. 197-232 Miyazaki, N. and S. Wada. Fraser's dolphin, *Lagenodelphis hosei* in the western North Pacific. 231-244 Nemoto, T. Humpback whales observed within the continental shelf waters of the eastern Bering Sea.

245-247

- Yamamoto, Y. and H. Hiruta. Stranding of a black right whale at Kumomi, southwestern coast of Izu Peninsula. 249-251
- Klima, M. Comparison of early development of sternum and clavicle in striped dolphin and in humpback whale. 253-269
- Omura, H. Preliminary report on morphological study of pelvic bones of the minke whale from the Antarctic. 271-279
- Kamiya, T., F. Yamasaki and S. Komatsu. A note on the parathyroid glands of Ganges susu. 281-284
- Yamasaki, F., S. Komatsu and T. Kamiya. Taste buds in the pits at the posterior dorsum of the tongue of *Stenella coeruleoalba*. 285-290
- Kawamura, A. On the baleen filter area in the South Pacific Bryde's whales. 291-300
- Kasuya, T. and M. Nishiwaki. On the age characteristics and anatomy of the tusk of Dugong dugon. 301-310
- Kagei, N., K. Asano and M. Kihata. On the examination against the parasites of Antarctic krill, Euphausia superba. 311-313

NUMBER 31, DECEMBER 1979

Kasuya, T. and K. Kureha. The population of finless porpoise in the Inland Sea of Japan. 1-44

- Kasuya, T. and R. L. Brownell Jr. Age determination, reproduction, and growth of Frnaciscana dolphin, Pontoporia blainvillei. 45-67
- Jurasz, C. M. and V. P. Jurasz. Feeding modes of the humpback whale, Megaptera novaeangliae, in southeast Alaska. 69-83
- Omura, H. and T. Kasuya. A skull of baleen whale dredged from the Inland Sea of Japan. 85-92
- Kamiya, T., T. Tobayama and M. Nishiwaki. Epidermal cyst in the neck of a killer whale. 93-94
- Major, P. F. An aggressive encounter between a pod of whales and billfish. 95-96
- Kato, H. Carotenoid colored minke whale from the Antarctic. 97-99
- Kato, H. Unusual minke whale with deformed jaw. 101-103
- Naito, Y. and S. Konno. The post breeding distributions of ice-breeding harbour seal (*Phoca largha*) and ribbon seal (*Phoca fasciata*) in the southern sea of Okhotsk. 105-119
- Naito, Y. A record of the bearded seal wandering with special reference to the wandering speed. 121-123
- Miyazaki, N., K. Itano, M. Fukushima, S. Kawai and K. Honda. Metals and organochlorine compounds in the muscle of dugong from Sulawesi Island. 125-128
- Kamiya, T., S. Uchida and T. Kataoka. Organ weights of Dugong dugon. 129-132
- Nishiwaki, M., T. Kasuya, N. Miyazaki, T. Tobayama and T. Kataoka. Present ditribution of the dugong in the world. 133-141

NUMBER 32, DECEMBER 1980

Kawamura, A. Food habits of the Bryde's whales taken in the South Pacific and Indian oceans. 1-23 Omura, H. Morphological study of pelvic bones of the minke whale from the Antarctic. 25-37

Hohn, A. A. Age determination and age related factors in the teeth of western North Atlantic bottlenose dolphins. 39-66

- Yonekura, M., S. Matsui and T. Kasuya. On the external characters of *Globicephala macrorhynchus* off Taiji, Pacific coast of Japan. 67-95
- Nemoto, T., P. B. Best, K. Ishimaru and H. Takano. Diatom films on whales in South African waters. 97-103

Kamiya, T. and P. Pirlot. Brain organization in Platanista gangetica. 105-126

Yamasaki, F., S. Komatsu and T. Kamiya. A comparative morphological study on the tongues of manatee and dugong (Sirenia). 127-144

Casinos, A. and J. Bou. On a massive stranding of short-finned pilot whale, *Globicephala macrorhynchus* Gray, 1846, on Margarita Island (Venezuela). 145-148

Mermoz, J. F. A brief report on the behavior of commerson's dolphin, *Cephalorhynchus commersonii*, in Patagonian shores. 149-154

Kawamura, A. A review of food of balaenopterid whales. 155-198

Kawakami, T. A review of sperm whale food. 199-218

NUMBER 33, DECEMBER 1981

Omura, H., T. Kasuya, H. Kato and S. Wada. Osteological study of the Bryde's whale from the central South Pacific and eastern Indian Ocean. 1-26

Miyazaki, N., Y. Fujise and T. Fujiyama. Body and organ weight of striped and spotted dolphins off the Pacific coast of Japan. 27-67

Yamasaki, F. and T. Kamiya. The stomach of the Boutu, Inia geoffrensis: comparison with those of other Platanistids. 69-81

Watkins, W.A. Activities and underwater sounds of fin whales. 83-117

Omura, H. and Y. Takahashi. A pygmy sperm whale stranded at Tokaimura, Ibaragi, Japan. 119-124

Aguilar, A., L. Jover and E. Grau. Some anomalous dispositions of the Jacobson's organ in the fin whale. 125-126

Kamiya, T., N. Miyazaki and S. Shiraga. First case of dicephaly in Odontoceti. 127-129

Ohtaishi, N. and M. Yoneda. A thirty four years old male Kuril seal from Shiretoko Pen., Hokkaido. 131-135

NUMBER 34, DECEMBER 1982

Sergeant, D. E. Mass strandings of toothed whales (Odontoceti) as a population phenomenon. 1-47 Nishiwaki, M. The mandible of bowhead in Kathmandu. 49-57

Kawamura, A. Food habits and prey distributions of three rorqual species in the North Pacific Ocean. 59-91

Zhou, K. Classification and phylogeny of the superfamily Platanistoidea, with notes on evidence of the monophyly of the cetacea. 93-108

Nishiwaki, M. and T. Tobayama. Morphological study of the hybrid between tursiops and pseudorca. 109-121

Kato, H. Food habits of largha seal pups in the pack ice area. 123-136

Nishiwaki, M., M. Yamaguchi, S. Shokita, S. Uchida and T. Kataoka. Recent survey on the distribution of the African manatee. 137-147

NUMBER 35, MARCH 1984

Lowry, L. F. and K. J. Frost. Foods and feeding of bowhead whales in western and northern Alaska. 1-16 Singarajah, K. V. Observations on the occurrence and behaviour of minke whales off the coast of Brazil. 17-38

Kato, H. Observation of tooth scars on the head of male sprem whale, as an indication of intra-sexual fightings. 39-46

Seki, Y. Anatomical studies on the cell column located closely medial to the nucleus of the spinal root of the trigeminal nerve in the sperm and the pygmy sperm whales. 47-56

Kasuya, T. and S. Matsui. Age determination and growth of the short-finned pilot whale off the Pacific coast of Japan. 57-91

Miyazaki, N., L. L. Jones and R. Beach. Some observations on the schools of *dalli*- and *truei*-type Dall's porpoise in the northwestern Pacific. 93-105

Kasuya, T. and L. L. Jones. Behaviour and segregation of the Dall's porpoise in the northwestern North Pacific. 107-128

Leatherwood, S., R. R. Reeves, A. E. Bowles, B. S. Stewart and K. R. Goodrich. Distribution, seasonal movements and abundance of Pacific white-sided dolphins in the eastern North Pacific. 129-157

Fordyce, R. E., R. H. Mattlin and J. M. Dixon. Second record of spectacled porpoise from subantarctic Southwest Pacific. 159-164

Yamasaki, F. and K. Kito. A morphological note of the intestine of the Boutu, with emphasis on its length and ileo-colic transition compared with other Platanistids. 165–172

Zhou, K., M. Zhou and Z. Zhao. First discovery of a tertiary Platanistoid fossil from Asia. 173-181

Omura, H., M. Shirakihara and H. Ito. A pygmy sperm whale accidentally taken by drift net in the North Pacific. 183-193

Furuta, M. Note on a gray whale found in the Ise Bay on the Pacific coast of Japan. 195-197

Appendix Measurements of body proportion of the pygmy blue whale, left by The Late Dr Tadayoshi Ichihara. 199-203

NUMBER 36, MARCH 1985

Best, P. B. External characters of southern minke whales and the existence of a diminutive form. 1-33

Marsh, H. Observations on the ovaries of an isolated minke whale: evidence for spontaneous sterile ovulation and structure of the resultant corpus. 35-39

D'Vincent, C. G., R. M. Nilson and R. E. Hanna. Vocalization and coordinated feeding behavior of the humpback whale in southeastern Alaska. 41-47

Seki, Y. Anatomical observations on the lower brain stem of the right whale. 49-87

- Kito, K. and F. Yamasaki. Duodenal portion of the hepato-pancreatic duct of the Boutu, Inia geoffrensis. 89-95
- Crespo, E. A., G. Pagnoni and S. N. Pedraza. Structure of a long-finned pilot whale school stranded in Patagonia. 97-106
- Kasuya, T. Effect of exploitation on reproductive parameters of the spotted and striped dolphins off the Pacific coast of Japan. 107-138
- Kasuya, T. and S. Shiraga. Growth of Dall's porpoise in the western north Pacific and suggested geographical growth differentiation. 139-152

Brownell, R. L. Jr. and R. Praderi. Distribution of Commerson's dolphin, *Cephalorhynchus commersonii*, and the rediscovery of the type of *Lagenorhynchus floweri*. 153–164

Pinedo, M. C. A note on a stranding of the humpback whale on the southern coast of Brazil. 165-168

NUMBER 37, MARCH 1986

Ohsumi, S. Yearly change in age and body length at sexual maturity of a fin whale stock in the eastern North Pacific. 1-16.

Ohsumi, S. Earplug transition phase as an indicator of sexual maturity in female Antarctic minke whales. 17-30.

Simmons, M. L. and H. Marsh. Sightings of humpback whales in Great Barrier Reef waters. 31-46.

Horwood, J. W. The lengths and distribution of Antarctic sei whales. 47-60.

Kasuya, T. Distribution and behavior of Baird's beaked whales off the Pacific coast of Japan. 61-83.

Kasuya, T., T. Tobayama, T. Saiga and T. Kataoka. Perinatal growth of delphinoids: information from aquarium reared bottlenose dolphins and finless porpoises. 85–97.

Yabu, H. and H. Ogi. Chromosome number of two color types of the Dall's porpoise. 99-102.

Reiner, F. First record of Sowerby's beaked whale from Azores. 103-107.

Lichter, A.A. Records of beaked whales (Ziphiidae) from the western South Atlantic. 109-127.

Scarff, J. E. Occurrence of the barnacles Coronula diadema, C. reginae and Cetopirus complanatus (Cirripedia) on right whales. 129–153.

xiv

- Horwood, J. W. The distribution of the southern blue whale in relation to recent estimates of abundance. 155-165.
- Paterson, R. A. An analysis of four large accumulations of sperm whales observed in the modern whaling era. 167-172.
- Hayama, S., M. Suzuki, H. Uno and T. Yamashita. Female sexual maturity and delayed implantation period of the Kuril seal. 173-178.



一般財団法人 日本鯨類研究所 THE IN STITUTE OF CETACEAN RESEARCH