

Scientific Contributions of JARPA/JARPAII and JARPN/JARPNII

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This document provides a list of publications resulting from the analysis of data derived from the Japanese Whale Research Programs under Special Permits in the Antarctic (JARPA and JARPA II: Annex A) and the Western North Pacific (JARPN and JARPN II: Annex B). Cruise reports from these research programs are available at: <http://www.icrwhale.org/CruiseReportJARPA.htm> and <http://www.icrwhale.org/CruiseReportJARPN.htm> respectively.

Annex A

(as of December 2009)

Scientific contribution from JARPA/JARPA II

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The Japanese Whale Research Program under Special Permit in the Antarctic (JARPA) was conducted between the austral summer seasons of 1987/88 and 2004/05. The JARPA had four main objectives: a) estimation of biological parameters to improve the stock management of the Southern Hemisphere minke whale; b) elucidate the role of whales in the Antarctic marine ecosystem; c) elucidation of the effect of environmental change on cetaceans; and d) elucidation of the stock structure of Southern Hemisphere minke whales to improve stock management.

The International Whaling Commission Scientific Committee (IWC SC) carried out two review workshops on JARPA, the first in 1997 (mid-term review) and the second on December 2006 (final review). Reports of these workshops can be found in the following web site:

http://www.iwcoffice.org/_documents/conservation/RIWC-48-377-412.pdf (mid-term review)

http://www.iwcoffice.org/_documents/sci_com/workshops/SC-59-Rep1rev.pdf (final review)

JARPA II started with two feasibility surveys in the seasons 2005/06 and 2006/07. The first full survey started in the 2007/08 season. The objectives of the JARPA II are the following: a) monitoring the Antarctic ecosystem (whale abundance trends and biological parameters; krill abundance and the feeding ecology of whales; effects of contaminants on cetaceans; cetacean habitat); b) modeling competition among whale species and future management objectives (constructing a model of competition among whale species; new management objectives including the restoration of the cetacean ecosystem); c) elucidation of temporal and spatial changes in stock structure; and d) improving the management procedure for Antarctic minke whale stocks.

Scientific contribution of JARPA/JARPA II

Scientific contribution of JARPA/JARPA II has been made in different forms, as scientific documents for the IWC SC meetings and other scientific meetings of intergovernmental organizations, as publications in peer reviewed journals, and as oral presentations at scientific symposiums.

Table 1 shows the number of IWC SC documents, peer-reviewed publications and oral presentations at scientific symposium based on JARPA/JARPA II sample/data, by year.

Documents submitted to the IWC SC and other scientific meetings of intergovernmental organizations

In the period 1988-2009 a total of 195 documents were presented to annual and intersessional meetings of the IWC SC and other meetings, with an annual average of 8.9 documents. In the IWC SC, documents were

presented mainly at the RMP (Revised Management Procedure), IA (In-depth assessment), SH (Southern Hemisphere) and SP (Special Permit) sub-committees, which deal mainly with assessment and management of whales.

Peer reviewed publications

The number of peer-reviewed papers made in same period is 107, with an annual average of 4.9 papers. Scientific contributions have been made not only in the field of whale assessment and management but also in the field of whale natural sciences.

Oral presentations at symposium

The number of oral presentations at scientific symposium in the period 1988-2009 is 199, with an annual average of 9.1 presentations. Scientific contributions have been made not only in the field of whale assessment and management but also in the field of whale natural sciences. Titles and contents of the presentations can be found in the annual progress report of the Institute of Cetacean Research (ICR) and Japan progress report on cetacean research presented to the annual IWC SC meetings.

The list of IWC SC and other meetings documents and peer-reviewed papers derived from JARPA/JARPA II is shown in the Appendix 1, by year. An asterisk indicates those papers published in peer-reviewed journals.

Other scientific contribution

JARPA/JARPA II sample/data has been used in:

- a) Undergraduate, master and doctoral thesis: 17
- b) Chapters of books: 53
- c) Bulletin of the ICR (*Geiken Tsushin*) and Suisan Shigen Kanri Danwakaihou: 41

JARPA/JARPA II biological material such as whale skeletons have been provided to municipal museums.

Data access and availability

All the data and samples obtained by JARPA/JARPA II have been available to the national and international scientific community through established data access protocols. Appendix 2 shows the data access protocol of ICR, which can also be found at the IWC SC web page.

Table 1: Scientific contribution of JARPA/JARPA II

Year	IWC SC and other meetings documents	Peer reviewed publications	Oral presentations at symposium
1988	0	0	2
1989	3	2	6
1990	6	8	5
1991	4	9	5
1992	4	2	6
1993	4	7	7
1994	9	3	7
1995	9	3	11
1996	6	8	7
1997	27	3	4
1998	5	7	2
1999	12	3	6
2000	13	5	10
2001	6	3	15
2002	7	6	15
2003	8	4	22
2004	2	8	14
2005	8	6	21
2006	44	8	12
2007	11	7	6
2008	3	4	8
2009	4	1	8
Total	195	107	199

Appendix 1

List of scientific papers based on data and samples collected by JARPA and JARPA II (peer-reviewed papers and unpublished documents submitted to the IWC/Scientific Committee and other meetings). Asterisks indicate those papers published in peer reviewed journals.

[1989] (5)

Kasamatsu, F. and Shigemune, H. 1989. Preliminary report of the second minke whale sighting surveys in low and middle latitudinal waters in the Southern Hemisphere in 1988/89. Paper SC/41/SHMi15 presented to the IWC Scientific Committee, June 1989 (unpublished). 15pp.

*Kato, H., Hiroshima, H., Fujise, Y. and Ono, K. 1989. Preliminary report of the 1987/88 Japanese feasibility study of the special permit proposal for Southern Hemisphere minke whales. *Rep. int. Whal. Commn* 39: 235-248.

Kishino, H., Kato, H., Kasamatsu, F. and Fujise, Y. 1989. Statistical method for the estimation of age composition and biological parameters of the population. Paper SC/41/Mi3 presented to the IWC Scientific Committee, June 1989 (unpublished). 38pp.

Naganobu, N., Shimamoto, K. and Kato, H. 1989. Oceanographical analysis on the southern minke whale distribution based on the data during Japanese research take in 1987/88. Paper SC/41/SHMi18 presented to the IWC Scientific Committee, June 1989 (unpublished). 9pp.

*Nakamura, T., Ohnishi, S. and Matsumiya, Y. 1989. A Bayesian cohort model for catch-at-age data obtained from research takes of whales. *Rep. int. Whal. Commn* 39: 375-382.

[1990] (14)

*Butterworth, D. S. and Punt, A. E. 1990. Some preliminary examinations of the potential information content of age-structure data from Antarctic minke whale research catches. *Rep. int. Whal. Commn* 40: 301-315.

Fujise, Y., Kato, H. and Kishino, H. 1990. Reproductive segregation of the minke whale population in high latitudinal waters with some estimations of pregnancy and sexual maturity rates, data from Japanese research takes in 1987/88 and 1988/89. Paper SC/42/SHMi10 presented to the IWC Scientific Committee, June 1990 (unpublished). 20pp.

Fujise, Y., Yamamura, K., Zenitani, R., Ishikawa, H., Yamamoto, Y., Kimura, K. and Komaba, M. 1990. Cruise report of the research on southern minke whales in 1989/90 under the Japanese proposal to the scientific permit. Paper SC/42/SHMi25 presented to the IWC Scientific Committee, June 1990 (unpublished). 56pp.

*Ichii, T. 1990. Distribution of Antarctic krill concentrations exploited by Japanese krill trawlers and minke whales. *Proceedings of the NIPR Symposium on Polar Biology* 3: 36-56.

Ichii, T. and Kato, H. 1990. Food of southern minke whales from Japanese research take in 1987/88. Paper SC/42/SHMi14 presented to the IWC Scientific Committee, June 1990 (unpublished). 15pp.

*Itoh, S., Takenaga, F. and Tsuyuki, H. 1990. Studies on lipids of the Antarctic minke whale. I. The fatty acid compositions of the minke whale blubber oils caught on 1987/88 season. *Yukagaku* 39 (7): 486-90. (in Japanese).

*Kasamatsu, F., Kishino, H. and Hiroshima, H. 1990. Estimation of the number of minke whale (*Balaenoptera acutorostrata*) schools and individuals based on the 1987/88 Japanese feasibility study data. *Rep. int. Whal. Commn* 40: 239-247.

*Kato, H., Fujise, Y., Yoshida, H., Nakagawa, S., Ishida, M. and Tanifuji, S. 1990. Cruise report and preliminary analysis of the 1988/89 Japanese feasibility study of the special permit proposal for southern hemisphere minke whales. *Rep. int. Whal. Commn* 40: 289-300.

*Kato, H., Kishino, H. and Fujise, Y. 1990. Some analyses on age composition and segregation of southern minke whales using samples obtained by the Japanese feasibility study in 1987/88. *Rep. int. Whal. Commn* 40: 249-256.

*Nagasaki, F. 1990. The Case for Scientific Whaling. *Nature* 334: 189-190.

Sedlak-Weinstein, E. 1990. Preliminary report of parasitic infestation of the minke whale *Balaenoptera acutorostrata* taken during the 1988/89 Antarctic expedition. Unpublished paper. 4pp.

Taga, Y., Kishino, H. and Kasamatsu, F. 1990. Detection probabilities and search half-widths of paired vessels. Paper SC/42/SHMi27 presented to the IWC Scientific Committee, June 1990 (unpublished). 5pp. + Addendum 1pp.

*Tanaka, S. 1990. Estimation of natural mortality coefficient of whales from the estimates of abundance and age composition data obtained from research catches. *Rep. int. Whal. Commn* 40: 531-536.

Yoshioka, M., Fujise, Y., Kato, H. and Aida, K. 1990. Serum progesterone levels in southern minke whales by reproductive status. Paper SC/42/SHMi13 presented to the IWC Scientific Committee, June 1990 (unpublished). 10pp.

[1991] (13)

*Bergh, M. O., Butterworth, D. S. and Punt, A. E. 1991. Further examination of the potential information content of age-structure data from Antarctic minke whale research catches. *Rep. int. Whal. Commn* 41: 349-361.

Fujise, Y., Kato, H. and Kishino, H. 1991. Some progress in examination on age distribution and segregation of the southern minke whale population using data from the Japanese research take. Paper SC/43/Mi18 presented to the IWC Scientific Committee, May 1991 (unpublished). 17pp.

*Ichii, T. and Kato, H. 1991. Food and daily food consumption of southern minke whales in the Antarctic. *Polar Biology* 11: 479-487.

*Kasamatsu, F., Kishino, H. and Taga, Y. 1991. Estimation of southern minke whale abundance and school size composition based on the 1988/89 Japanese feasibility study data. *Rep. int. Whal. Commn* 41: 293-301.

*Kato, H., Fujise, Y. and Kishino, H. 1991. Age structure and segregation of southern minke whales by the data obtained during Japanese research take in 1988/89. *Rep. int. Whal. Commn* 41: 287-292.

*Kato, H. and Miyashita, T. 1991. Migration strategy of southern minke whales in relation to reproductive cycles estimated from foetal lengths. *Rep. int. Whal. Commn* 41: 363-369.

*Kato, H., Zenitani, R. and Nakamura, T. 1991. Inter-reader calibration in age readings of earplugs from southern minke whale, with some notes of age readability. *Rep. int. Whal. Commn* 41: 339-343.

*Kishino, H., Kato, H., Kasamatsu, F. and Fujise, Y. 1991. Detection of heterogeneity and estimation of population characteristics from the field survey data: 1987/88 Japanese feasibility study of the Southern Hemisphere minke whales. *Annals of the Institute of Statistical Mathematic* 43(3): 435-453.

Kishino, H., Fujise, Y., Kato, H. and Taga, Y. 1991. Maximum likelihood procedure for the estimation of the mean age at sexual maturity of minke whales using the data from Japanese research take. Paper SC/43/Mi23 presented to the IWC Scientific Committee, May 1991 (unpublished). 9pp.

Kishino, H., Taga, Y., Nishiwaki, S. and Kasamatsu, F. 1991. Abundance estimate of the Southern Hemisphere minke whales in area IV from the sighting in the 1989/90 Japanese research take. Paper SC/43/Mi22 presented to the IWC Scientific Committee, May 1991 (unpublished). 15pp.

- Matsuishi, T. and Kishino, H. 1991. Precision of the estimated natural mortality coefficient and recruitment rate evaluated by Monte Carlo simulation. Paper SC/43/Mi21 presented to the IWC Scientific Committee, May 1991 (unpublished). 9pp.
- *Nakamura, T. 1991. A new look at a Bayesian cohort model for time-series data obtained from research takes of whales. *Rep. int. Whal. Commn* 41: 345-348.
- *Wada, S., Kobayashi, T. and Numachi, K. 1991. Genetic Variability and Differentiation of Mitochondrial DNA in Minke Whales. *Rep. int. Whal. Commn*(special issue 13): 203-215.
- [1992] (6)**
- Fujise, Y., Kato, H., Zenitani, R. and Kishino, H. 1992. Seasonal and areal changes in age distribution and segregation of the southern minke whales in Antarctic areas IV and V using data from the Japanese researches. Paper SC/44/SHB10 presented to the IWC Scientific Committee, June 1992 (unpublished). 37pp.
- *Nakamura, T. 1992. Simulation trials of a Bayesian cohort model for time-series data obtained from research takes of whales. *Rep. int. Whal. Commn* 42: 421-427.
- Nishiwaki, S., Kawasaki, M., Kishino, H. and Taga, Y. 1992. Abundance estimates of the Southern Hemisphere minke whale in Area V from the sightings in the Japanese research in 1990/91. Paper SC/44/SHB8 presented to the IWC Scientific Committee, June 1992 (unpublished). 12pp.
- *Tanaka, S., Kasamatsu, F. and Fujise, Y. 1992. Likely precision of estimates of natural mortality rates from Japanese research data for Southern Hemisphere minke whales. *Rep. int. Whal. Commn* 42: 413-420.
- Yoshioka, M. and Fujise, Y. 1992. Serum testosterone and progesterone levels in southern minke whales (*Balaenoptera acutorostrata*). Paper SC/44/SHB13 presented to the IWC Scientific Committee, June 1992 (unpublished). 4pp.
- Yoshioka, M., Okumura, T., Aida, K. and Fujise, Y. 1992. Development of techniques for quantifying muscle progesterone content in the minke whale (*Balaenoptera acutorostrata*). Paper SC/44/SHB12 presented to the IWC Scientific Committee, June 1992 (unpublished). 4pp.
- [1993] (11)**
- Cooke, J. G. and De La Mare, W. K. 1993. A comparative note on demographic parameters of right and minke whales. Paper SC/45/O25 presented to the IWC Scientific Committee, May 1993 (unpublished). 4pp.
- *Fujise, Y., Ishikawa, H., Saino, S., Nagano, M., Ishii, K., Kawaguchi, S., Tanifuji, S., Kawashima, S. and Miyakoshi H. 1993. Cruise report of the 1991/92 Japanese research in Area IV under the special permit for Southern Hemisphere minke whales. *Rep. int. Whal. Commn* 43: 357-371.
- Fujise, Y., Zenitani, R., Saino, S., Itoh, S., Kawasaki, M., Matsuoka, K. and Tamura, T. 1993. Cruise report of the 1992/93 Japanese research under the special permit for Southern Hemisphere minke whales. Paper SC/45/SHBa12 presented to the IWC Scientific Committee, April 1993 (unpublished). 39pp.
- *Hasunuma, R., Ogawa, T., Fujise, Y. and Kawanishi, Y. 1993. Analysis of selenium metabolites in urine samples of minke whale (*Balaenoptera acutorostrata*) using ion exchange chromatography. *Comparative Biochemistry and Physiology* 104C (1): 87-89.
- *Itoh, S., Takenaga, F. and Tsuyuki, H. 1993. Studies on lipids of the Antarctic minke whale. II. The fatty acid compositions of the blubber oils of minke whale and dwarf minke whale caught on 1988/89 and 1989/90 seasons. *Yukagaku* 42(12): 1007-1011. (in Japanese).
- *Iwata, H., Tanabe, S., Sakai, N., and Tatsukawa, R. 1993. Distribution of persistent organochlorines in the oceanic air and surface seawater and the role of ocean on their global transport and fate. *Environ. Sci. Technol.* 27: 1080-1098.
- *Kasamatsu, F., Yamamoto, Y., Zenitani, R., Ishikawa, H., Ishibashi, T., Sato, H., Takashima, K. and Tanifuji, S. 1993. Report of the 1990/91 southern minke whale research cruise under scientific permit in Area V. *Rep. int. Whal. Commn* 43: 505-522.
- Naganobu, M., Kano, H., Fujise, Y. and Kato, H. 1993. Preliminary oceanographical analyses on the southern minke whale distribution based on the data during Japanese research take in 1988/89. Paper SC/45/SHBa15 presented to the IWC Scientific Committee, May 1993 (unpublished). 13pp.
- *Nakamura, T. 1993. Two-stage Bayesian cohort model for time-series data to reduce bias in the estimate of mean natural mortality rate. *Rep. int. Whal. Commn* 43: 343-348.
- *Pastene, L.A., Kobayashi, T., Fujise, Y. and Numachi, K. 1993b. Mitochondrial DNA differentiation in Antarctic minke whales. *Rep. int. Whal. Commn* 43: 349-355.
- Pastene, L. A., Kobayashi, T., Fujise, Y. and Numachi, K. 1993a. Temporal Variation in Mitochondrial DNA Haplotypes Composition in Minke Whales from Antarctic Area IV. Paper SC/45/SHBa13 presented to the IWC Scientific Committee, April 1993 (unpublished). 16pp.
- [1994] (12)**
- Fujise, Y. and Kishino, H. 1994. Patterns of segregation of minke whales in Antarctic Areas IV and V as revealed by a logistic regression model. Paper SC/46/SH11 presented to the IWC Scientific Committee, May 1994 (unpublished). 23pp.
- Fujise, Y., Zenitani, R., Kato, H. and Kishino, H. 1994. Age distributions of minke whales in the Antarctic Areas IV and V in 1991/92 and 1992/93 seasons. Paper SC/46/SH20 presented to the IWC Scientific Committee, May 1994 (unpublished). 22pp.
- Hori, H., Bessho, Y., Kawabata, R., Watanabe, I., Koga, A. and Pastene, L.A. 1994. World-wide population structure of minke whales deduced from mitochondrial DNA control region sequences. Paper SC/46/SH14 presented to the IWC Scientific Committee, May 1994 (unpublished). 11pp.
- *Kimoto, H., Endo, Y. and Fujimoto, K. 1994. Influence of interesterification on the oxidative stability of marine oil triacylglycerols. *Journal of American Oil Chemists Society* 71(5): 469-473.
- Naganobu, M., Kano, H., Fujise, Y. and Kato, H. 1994. Relationship between oceanographic condition and minke whale density in the Ross Sea based on the data from the 1992/93 cruise of Japanese whale research programme under special permit. Paper SC/46/SH17 presented to the IWC Scientific Committee, May 1994 (unpublished). 21pp.
- Nishiwaki, S., Ishikawa, H., Itoh, S., Matsuoka, K., Yuzu, S., Nagatome, I., Yamagiwa, D., Murase, H., Tanifuji, S., Miyakoshi, H. and Ono, K. 1994. Report of the 1993/94 cruise of the Japanese whale research programme under special permit in the Antarctic Area IV. Paper SC/46/SH15 presented to the IWC Scientific Committee, May 1994 (unpublished). 42pp.
- Nishiwaki, S., Matsuoka, K. and Kawasaki, M. 1994. Abundance estimates of Southern Hemisphere minke whale in 1991/92 and 1992/93 seasons using data from Japanese whale research programme under special permit in Antarctic. Paper SC/46/SH12 presented to the IWC Scientific Committee, May 1994 (unpublished). 14pp.
- Ohsumi, S., Kawasaki, M. and Nishiwaki, S. 1994. Biological results of beaked whales surveyed by Japanese whale research programme under special permit in the Antarctic and the need of their research take. Paper SC/46/SM15 presented to the IWC Scientific Committee, May 1994 (unpublished). 24pp.
- *Pastene, L.A., Fujise, Y. and Numachi, K. 1994. Differentiation of mitochondrial DNA between ordinary and dwarf forms of southern minke whale. *Rep. int. Whal. Commn* 44: 277-281.

Pastene, L.A. and Fujise, Y. 1994. An outline, with a progress report, of the photo-identification experiments on southern baleen whales conducted during the Japanese Whale Research Programme Under Special Permit in the Antarctic. Paper SC/46/SH21 presented to the IWC Scientific Committee, May 1994 (unpublished). 14pp.

Pastene, L.A., Goto, M., Fujise, Y. and Numachi, K. 1994. Further analysis on the spatial and temporal heterogeneity in mitochondrial DNA haplotype distribution in minke whales from Antarctic Areas IV and V. Paper SC/46/SH13 presented to the IWC Scientific Committee, May 1994 (unpublished). 25pp.

*Yoshioka, M., Okumura, T., Aida, K. and Fujise, Y. 1994. A proposed technique for quantifying muscle progesterone content in the minke whales (*Balaenoptera acutorostrata*). *Canadian Journal of Zoology* 72: 368-370.

[1995] (12)

Butterworth, D. S., Thomson, R. and Kato, H. 1995. An Initial Analysis of Updated Transition Phase Data for Minke Whales in Antarctic Area IV. Paper SC/47/SH24 presented to the IWC Scientific Committee, May 1995 (unpublished), and Paper SC/47/SH24 (Rev) presented to the IWC Scientific Committee, June 1996 (unpublished). 18pp.

Fujise, Y. 1995. A Preliminary morphometric study in minke whales from Antarctic Area IV using data from the 1989/90 JARPA survey. Paper SC/47/SH7 presented to the IWC Scientific Committee, May 1995 (unpublished). 15pp.

*Fukui, Y., Mogoe, T., Terawaki, Y., Ishikawa, H., Fujise, Y. and Ohsumi, S. 1995. Relationship between physiological status and serum constituent values in minke whales (*Balaenoptera acutorostrata*). *Journal of Reproduction and Development* 41(3): 203-208.

*Ishikawa, H., Amasaki, H. 1995. Development and Physiological Degradation of Tooth Buds and Development of Rudiment of Baleen Plate in Southern Minke Whale, *Balaenoptera acutorostrata*: *The Journal of Veterinary Medical Science*: 665-670.

*Kasamatsu, F., Nishiwaki, S. and Ishikawa, H. 1995. Breeding areas and southbound migrations of southern minke whales *Balaenoptera acutorostrata*. *Mar.Ecol.Prog.Ser.* 119: 1-10.

Matsuoka, K. 1995. Finding of blue whales by JARPA in the Antarctic. Paper SC/M95/BW3 presented to the Steering Committee Meeting for Research Related to Conservation of Large Whales in the Southern Oceans, Tokyo, 1995 (unpublished). 10pp.

Matsuoka, K. and Ohsumi, S. 1995. Yearly trend in population density of large baleen whales in the Antarctic Areas IV and V in recent years. Paper SC/47/SH9 presented to the IWC Scientific Committee, May 1995 (unpublished). 25pp.

Naganobu, M., Kano, H., Fujise, Y., Nishiwaki, S. and Kato, H. 1995. Relationship between oceanographic condition and minke whale density in the Antarctic Ocean based on the data from the Japanese scientific permit cruise in 1989/90, 1991/92 and 1993/94. Paper SC/47/SH11 presented to the IWC Scientific Committee, May 1995 (unpublished). 21pp.

Nishiwaki, S., Ishikawa, H., Itoh, S., Shimamoto, K., Mogoe, T., Kawazu, H., Machida, S., Yamane, T., Ono, K. and Ohkoshi, C. 1995. Report of the 1994/95 cruise of the Japanese whale research programme under special permit (JARPA) in the Antarctic Area V. Paper SC/47/SH5 presented to the IWC Scientific Committee, May 1995 (unpublished). 38pp.

Nishiwaki, S., Matsuoka, K. and Kawasaki, M. 1995. Comparison of parameters to obtain abundance estimates in the Japanese whale research programme under special permit in the Antarctic (JARPA) and the International Decade of Cetacean Research (IDCR). Paper SC/47/SH10 presented to the IWC Scientific Committee, May 1995 (unpublished). 17pp.

Tanabe, S., Aono, S., Fujise, Y., Kato, H. and Tatsukawa, R. 1995. Persistent organochlorine residues in the Antarctic minke whale, *Balaenoptera acutorostrata*. Paper SC/M95/P13 presented to the Workshop on Chemical Pollution and Cetaceans, Bergen, 1995 (unpublished). 6pp.

Tanaka, E. and Nakamura, T. 1995. Preliminary estimation of average natural mortality coefficient of southern minke whales using JARPA data. Paper SC/47/SH8 presented to the IWC Scientific Committee, May 1995 (unpublished). 10pp.

[1996] (13)

Aono, S., Tanabe, S., Fujise, Y. and Tatsukawa, R. 1996. Specific accumulation of persistent organochlorines in minke whale (*Balaenoptera acutorostrata*) and their prey species from the Antarctic and the North Pacific. Paper SC/48/O22 presented to the IWC Scientific Committee, June 1996 (unpublished). 10pp.

*Bakke, I. Johansen, S., Bakke, O. and El-Gewely, M.R. 1996. Lack of population subdivision among the minke whales (*Balaenoptera acutorostrata*) from Icelandic and Norwegian waters based on mitochondrial DNA sequences. *Marine Biology* 125: 1-9.

*Butterworth, D. S. and Geromont, H. F. 1996. On the provision of advice on the effect on stock(s) of scientific permit catches, with particular reference to proposed research catches of minke whales from Antarctic Area IV. *Rep. int. Whal. Commn* 46: 653-655.

*Butterworth, D. S., Punt, A. E., Geromont, H. F., Kato, H. and Miyashita, T. 1996. An adapt approach to the analysis of catch-at-age information for Southern Hemisphere minke whales. *Rep. int. Whal. Commn* 46: 349-359.

Butterworth, D. S. and Punt, A.E. 1996. An Extension of the adapt Approach Put Forward for the Analysis of Catch-At-Age Information for Southern hemisphere Minke Whales. Paper SC/48/SH17 presented to the IWC Scientific Committee, June 1996 (unpublished). 17pp.

*Fukui, Y., Mogoe, T., Jung, Y.G., Terawaki, Y., Miyamoto, A., Ishikawa, H., Fujise, Y. and Ohsumi, S. 1996. Relationships among morphological status, steroid hormones, and post-thawing viability of frozen spermatozoa of male minke whales (*Balaenoptera acutorostrata*). *Marine Mammal Science* 12(1): 28-37.

*Iga, K., Fukui, Y., Miyamoto, A., Ishikawa, H. and Ohsumi, S. 1996. Endocrinological observations of female minke whales (*Balaenoptera acutorostrata*). *Marine Mammal Science* 12(2): 296-301.

*Matsuoka, K., Fujise, Y. and Pastene, L.A. 1996. A sighting of a large school of the pygmy right whale, *Caperea marginata* in the southeast Indian Ocean. *Marine Mammal Science* 12(4): 594-597.

Naganobu, M., Kano, H., Itoh, K., Nishiwaki, S. and Kato, H. 1996. Relationship between oceanographic conditions and minke whale density in and around the Ross Sea based on the data from the Japanese scientific permit cruise in 1994/95. Paper SC/48/SH19 presented to the IWC Scientific Committee, May 1996 (unpublished). 25pp.

Nishiwaki, S., Ishikawa, H., Tohyama, D., Kawasaki, M., Shimamoto, K., Yuzu, S., Tamura, T., Mogoe, T., Hishii, T., Yoshida, T., Hidaka, H., Nibe, H., Yamashiro, K., Ono, K. and Taguchi, F. 1996. Report of the 1995/96 Japanese whale research program under special permit in the Antarctic (JARPA) in Area IV and eastern part of Area III. Paper SC/48/SH12 presented to the IWC Scientific Committee, May 1996 (unpublished). 48pp.

*Pastene, L.A., Goto, M., Itoh, S. and Numachi, K. 1996. Spatial and temporal patterns of mitochondrial DNA variation in minke whale from Antarctic Areas IV and V. *Rep. int. Whal. Commn* 46: 305-314.

Pastene, L.A., Goto, M., Abe, H. and Nishiwaki, S. 1996. A preliminary analysis of mitochondrial DNA in humpback whales (*Megaptera novaeangliae*) from Antarctic Areas IV and V. Paper SC/48/SH10 presented to the IWC Scientific Committee, May 1996 (unpublished). 17pp.

Pastene, L.A., Kishino, H. and Goto, M. 1996. Preliminary RFLP analysis of mitochondrial DNA in the Antarctic minke whale from Areas III and VI. Paper SC/48/SH13 presented to the IWC Scientific Committee, May 1996 (unpublished). 19pp.

[1997] (30)

- Anonymous. 1997a. List of data sets produced by the Japanese Whale Research Program under Special Permit in the Antarctic (JARPA). Paper SC/M97/8 presented to the IWC Interseasonal Working Group to Review Data and Results from Special Permit Research on Minke whales in the Antarctic, May 1997 (unpublished). 6pp.
- Anonymous. 1997b. Scientific contribution of the Japanese Whale Research Program under Special Permit in the Antarctic (JARPA). Paper SC/M97/9 presented to the IWC Interseasonal Working Group to Review Data and Results from Special Permit Research on Minke whales in the Antarctic, May 1997 (unpublished). 12pp.
- Anonymous. 1997c. Abstract of the scientific works, based on JARPA data and material, presented in symposium and other scientific meetings (Item 2 of Documents 'Scientific contribution of the JARPA'). 24pp.
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Matsuoka, K. and Pastene, L.A. 2009. Summary of photo-id information of blue whales collected by JARPA/JARPA II and preliminary analysis of matches in the feeding grounds. Paper SC/61/SH3 presented to IWC Scientific Committee May 2009 (unpublished). 5pp.

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*Tamura, T. and Konishi, K. 2009. Feeding Habits and Prey Consumption of Antarctic Minke Whale (*Balaenoptera bonaerensis*) in the Southern Ocean. *Journal of Northwest Atlantic Fishery Science* 42: 13-25.

Appendix 2

Protocol for access to samples/data from the Institute of Cetacean Research (ICR), Tokyo, Japan under Procedure B (JCRM 6 (suppl.): in press)

INTRODUCTION

This protocol has been developed in the context of Procedure B of the IWC Scientific Committee's rules for data availability adopted at the 55th Annual Meeting (*Journal of Cetacean Research and Management* 6 (suppl.): in press). Procedure B applies to data required for analyses deemed important in providing advice to the Committee other than catch limits. Conditions for data recipients (repeated below) as specified in the rules for data availability are applicable.

It was agreed that the Committee shall specify the nature of the work and the data required during the meeting at which the recommendation is made, to the fullest extent possible in the time available at the meeting and in accord with the published protocol. Requests to the ICR for data under Procedure B of the Scientific Committee's rules for data availability shall be submitted by the Data Availability Group assisted by a nominated member of ICR.

It was also agreed that if the correct process is followed, the data owners will normally approve the applications within a 'specified time period'; in this case ICR agrees that it will respond within XXX weeks of receiving an application.

FORMAT OF THE APPLICATION

The format for the application is based on the revised application for catch-at-age analyses agreed by all members of the Scientific Committee at the end of the Scientific Committee meeting in 2003 (Annex G, Appendix 11).

- (a) *Title* of the proposal, giving the broad subject of the proposed analyses.
- (b) *Investigators*: the full name and affiliation of the principal investigator(s) and co-investigator(s) should be provided. This should include at least one scientist from ICR.
- (c) *Objectives and rationale of the study* as specified by the by the Scientific Committee along with the appropriate reference to the report(s) of the Scientific Committee. This will include the reasons why the proposed analyses are important and how they fit into previous work.
- (d) *Data to be used* will include a general description of all data to be used as well as data held by ICR. For the ICR-held data, the precise requirements will be given, including the level of disaggregation.
- (e) *Description of the methods* likely to be used. The level of detail must be in accordance with the level of novelty of the proposed methods and the particular research questions they will address. References to similar analyses should be included where available.
- (f) *Schedule of the work*: this should include estimated times for the various analyses to be carried out and an indication of which investigators will collaborate on individual components. If the project is a long-term project, annual progress reports will be required by ICR and the Scientific Committee.
- (g) *Output of the research*: this will follow the rules for publication agreed at the Scientific Committee meeting and given below. ICR may consider requests for less stringent conditions (e.g. presentations at non-IWC scientific meetings, publications, etc.). Such requests should be detailed here.

CONSIDERATION OF THE PROPOSAL

If an application has been approved by the whole Scientific Committee at an annual meeting, it will normally be approved by ICR. However, the final decision will always remain the prerogative of ICR. ICR may request reviews by an internal review group and/or external experts. The following factors will be taken in to account by ICR when considering applications.

- (a) *Priority*: highest priority for analysis/research of samples/data produced by Japan's Whale Research Programs under Special Permit, will be for the scientists that collected and obtained the data in any particular field.
- (b) *Suitability of the requested data* in the context of the proposed methods and the objectives of the research.
- (c) *Level of co-operation* with ICR scientists.

The response to an application for data will be communicated by the ICR's Director General to the Data Availability Group and may include requests for further information. If the research proposal is accepted, ICR will nominate a scientist, (normally one of the co-investigators) who shall be responsible for making the necessary arrangements to provide the required samples/data.

Agreed Scientific Committee conditions for data recipients

Applications deemed suitable under Procedure A or Procedure B below are granted under the following conditions:

- (1) Data shall not be transmitted to third parties.
- (2) Papers may only be submitted to a Committee meeting in accordance with the time restrictions given below. Such papers must not include the raw data or the data in a form in more detail than is necessary to understand the analysis.
- (3) Papers must carry a restriction on citation except in the context of IWC meetings.
- (4) Data owners are offered co-authorship.
- (5) Publication rights remain strictly with the data owner.
- (6) Data shall be returned, to the Secretariat or the data owner as appropriate, immediately after the meeting at which the paper is submitted and any copies destroyed, unless an extension is granted.
- (7) Data requesters sign a form agreeing to the above conditions. Such forms will be held by the data owner and the Secretariat. In the case of Procedure B, the Data Availability Group will sign the agreement on the Committee's behalf and ensure that the conditions of any agreement are met by any individual scientists involved in the analysis.
- (8) In the event of a breach of the conditions in (6), serious sanctions [to be determined] will apply.

Annex B

(as of December 2009)

Scientific contribution from JARPN/JARPN II

The Institute of Cetacean Research, Toyomi-cho 4-5, Chuo-ku, Tokyo 104-0055, Japan

The Japanese Whale Research Program under Special Permit in the North Pacific (JARPN) was conducted between 1994 and 1999. The JARPN had two main objectives: a) determine the stock structure of common minke whale, and in particular to investigate whether or not the “W” stock exists and if so to estimate mixing rates between “O” and “W” stocks, and b) determine the feeding ecology of the common minke whale in the North Pacific.

The International Whaling Commission Scientific Committee (IWC SC) carried out a workshop in February 2000 to review data and results of JARPN. Report of this workshop can be found in the following web site:

<http://www.icrwhale.org/eng/workshop.pdf> (final review)

JARPN II started with two feasibility surveys in 2000 and 2001. The first full survey started in 2002. The objectives of the JARPN II are the following: a) feeding ecology and ecosystem studies (prey consumption by cetaceans, prey preference of cetaceans, ecosystem modeling); b) monitoring environmental pollutant in cetaceans and the marine ecosystem (pattern of accumulation of pollutants in cetaceans, bioaccumulation process of pollutants through the food chain, relationships between chemical pollutants and cetacean health), and c) stock structure of large whales (common minke whale, Bryde’s whale, sei whale and sperm whale).

The IWC SC carried out a review of the data and results collected by JARPN II in its six first years (2002-2007) in January 2009. Report of this workshop can be found in the following web site:

<http://www.icrwhale.org/eng/workshop2.pdf>

Scientific contribution of JARPN/JARPN II

Scientific contribution of JARPN/JARPN II has been made in different forms, as scientific documents for the IWC/SC meetings and other scientific meeting of intergovernmental organizations, as publications in peer reviewed journals, and as oral presentations at scientific symposiums.

Table 1 shows the number of IWC SC and other meetings documents, peer-reviewed publications and oral presentations at scientific symposium based on JARPN/JARPN II sample/data, by year.

Documents submitted to the IWC SC and other scientific meetings of intergovernmental organizations

In the period 1994-2009 a total of 185 documents were presented to annual and intersessional meetings of the IWC SC and other meetings, with an annual average of 11.6 documents. In the IWC SC documents were presented mainly at the RMP (Revised Management Procedure), IA (In-depth assessment), EM (Ecosystem Modeling) and SP (Special Permit) sub-committees, which deal mainly with assessment and management of whales.

Peer reviewed publications

The number of peer-reviewed papers made in the period 1994-2009 is 62, with an annual average of 3.9 papers. Scientific contributions have been made not only in the field of whale assessment and management but also in the field of whale natural sciences.

Oral presentations at symposium

The number of oral presentations at scientific symposium in the period 1994-2009 is 136, with an annual average of 8.5 presentations. Scientific contributions have been made not only in the field of whale assessment and management but also in the field of whale natural sciences. Titles and contents of the presentations can be found in the annual progress report of the Institute of Cetacean Research (ICR) and Japan progress report on cetacean research presented to the annual IWC SC meetings.

The list of IWC SC and other meetings documents and peer-reviewed papers derived from JARPN/JARPN II is shown in the Appendix 1, by year. An asterisk indicates those papers published in peer-reviewed journals.

Other scientific contribution

JARPN/JARPN sample/data has been used in:

- d) Undergraduate, master and doctoral thesis: 5
- e) Chapters of books: 23
- f) Bulletin of the ICR (*Geiken Tsushin*) and Suisan Shigen Kanri Danwakaihou: 24
- g) Other reports: 4

JARPN/JARPN II biological material such as whale skeletons have been provided to municipal museums.

Data access and availability

All the data and samples obtained by JARPN/JARPN II have been available to the national and international scientific community through established data access protocols. Appendix 2 shows the data access protocol of ICR, which can also be found at the IWC SC web page.

Table 1: Scientific contribution of JARPN/JARPN II

Year	IWC SC documents	Peer reviewed publications	Oral presentations at symposium
1994	1	0	0
1995	5	0	2
1996	7	3	5
1997	5	6	2
1998	3	4	3
1999	3	2	3
2000	41	2	10
2001	6	1	11
2002	12	5	12
2003	7	4	22
2004	11	4	12
2005	13	6	12
2006	6	4	16
2007	7	11	10
2008	3	4	9
2009	55	6	7
Total	185	62	136

Appendix 1

List of scientific papers based on data and samples collected by JARPN and JARPN II (peer-reviewed papers and unpublished documents submitted to the IWC/Scientific Committee). Asterisks indicate those papers published in peer reviewed journals.

[1994](1)

Hori, H., Bessho, Y., Kawabata, R., Watanabe, I., Koga, A. and Pastene, L.A. 1994. World-wide population structure of minke whales deduced from mitochondrial DNA control region sequences. Paper SC/46/SH14 presented to the IWC Scientific Committee, May 1994 (unpublished). 11pp.

[1995](5)

Fujise, Y. 1995. Preliminary analysis of heavy metals and organochlorines in minke whales taken from the coastal Japan (sub-area 7) and offshore area (sub-area 9) in the western North Pacific. Paper SC/47/NP5 presented to the IWC Scientific Committee, May 1995 (unpublished). 9pp.

Fujise, Y. and Kato, H. 1995. Preliminary report of morphological differences of minke whales between coastal Japan (sub-area 7) and offshore area (sub-area 9) of western North Pacific. Paper SC/47/NP6 presented to the IWC Scientific Committee, May 1995 (unpublished). 9pp.

Goto, M. and Pastene, L.A. 1995. Populations differentiation in the western North Pacific minke whale as revealed by RFLP analysis of mitochondrial D-loop DNA. Paper SC/47/NP4 presented to the IWC Scientific Committee, May 1995 (unpublished). 15pp.

Wada, S. 1995. Comparison of allele frequencies between minke whale samples from Japanese coastal waters and pelagic waters (subarea 9). Paper SC/47/NP7 presented to the IWC Scientific Committee, May 1995 (unpublished). 4pp.

Fujise, Y., Kishiro, T., Zenitani, R., Matsuoka, K., Kawasaki, M. and Shimamoto, K. 1995. Cruise report of the Japanese Whale Research Program under a Special Permit for North Pacific Minke Whales in 1994. Paper SC/47/NP3 presented to the IWC Scientific Committee, May 1995 (unpublished). 29pp.

[1996](10)

Aono, S., Tanabe, S., Fujise, Y. and Tatsukawa, R. 1996. Specific accumulation of persistent organochlorines in minke whale (*Balaenoptera acutorostrata*) and their prey species from the Antarctic and the North Pacific. Paper SC/48/O22 presented to the IWC Scientific Committee, June 1996 (unpublished). 10pp.

*Butterworth, D.S., Geromont H.F. and Wada S. 1996. Further analysis of allele frequency data to provide estimates of the extent of mixing between the various North Pacific minke whale stocks, and their implications for the status of the "O" stock. *Rep. int. Whal. Commn* 46: 443-451.

Fujise, Y. 1996. Heavy metal concentrations in minke whales from the Pacific coast of Japan and an offshore area in the western North Pacific. Paper SC/48/NP22 presented to the IWC Scientific Committee, June 1996 (unpublished). 7pp.

Fujise, Y. and Kato, H. 1996. Some Morphological Aspects of the Western North Pacific Minke Whales: Preliminary Analyses of Materials from the JARPN Surveys in 1994-5. Paper SC/48/NP11 presented to the IWC Scientific Committee, June 1996 (unpublished). 10pp.

Fujise, Y., Iwasaki, T., Zenitani, R., Araki, J., Matsuoka, K., Tamura, T., Aono, S., Yoshida, T., Hidaka, H., Nibe, T. and Tohyama, D. 1996. Cruise report of the Japanese Whale Research Program under a Special Permit for North Pacific minke whales in 1995 with the results of a preliminary analysis of data collected. Paper SC/48/NP13 presented to the IWC Scientific Committee, June 1996 (unpublished). 39pp.

Iwasaki, T. 1996. Constituents of the urine in the North Pacific minke whales with some notes on urinary concentrations of sex steroid hormones. Paper SC/48/NP14 presented to the IWC Scientific Committee, June 1996 (unpublished). 9pp.

*Kuramochi, T., Machida, M., Araki, J., Uchida, A., Kishiro, T. and Nagasawa, K. 1996. Minke whales (*Balaenoptera acutorostrata*) are one of the major final hosts of *Anisakis simplex* (Nematoda: Anisakidae) in the Northwestern North Pacific Ocean. *Rep. int. Whal. Commn* 46: 415-419.

Miyashita, T. and Fujise, Y. 1996. Abundance estimate of the western North Pacific minke whale using sighting data of the Japanese Whale Program under a Special Permit in sub-area 9 and notes on the results of dedicated sighting surveys. Paper SC/48/NP7 presented to the IWC Scientific Committee, June 1996 (unpublished). 10pp.

*Miyashita, T. and Fujise, Y. 1996. Abundance estimate of the western North Pacific minke whale in sub-area 9 with notes on the results of dedicated surveys. *Rep. int. Whal. Commn* 47: 543-551.

Wada, S. 1996. Results of allozyme analysis on minke whale samples from JARPN in 1995. Paper SC/48/NP21 presented to the IWC Scientific Committee, June 1996 (unpublished). 4pp.

[1997](11)

Abe, H., Goto, M., Palsbøll, P.J. and Pastene, L.A. 1997. Preliminary microsatellite analyses of western North Pacific minke whales, *Balaenoptera acutorostrata*. Paper SC/49/NP12 presented to the IWC Scientific Committee, September 1997 (unpublished). 11pp.

*Aono, S., Tanabe, S., Fujise, Y., Kato, H. and Tatsukawa, R. 1997. Persistent organochlorines in minke whale (*Balaenoptera acutorostrata*) and their prey species from the Antarctic and the North Pacific. *Environmental Pollution* 98: 81-89.

*Goto, M. and Pastene, L.A. 1997. Population structure of western North Pacific minke whale based on an RFLP analysis of mtDNA control region. *Rep. int. Whal. Commn* 47: 531-537.

Goto, M. and Pastene, L.A. 1997. RFLP analysis of the mitochondrial DNA control region in minke whales sampled during the 1996 JARPN. Paper SC/49/NP10 presented to the IWC Scientific Committee, September 1997 (unpublished). 10pp.

*Hatanaka, H. and Miyashita, T. 1997. On the feeding migration of the Okhotsk Sea-West Pacific stock of minke whales, estimates based on length composition data. *Rep. int. Whal. Commn* 47: 557-564.

*Hatanaka, H. 1997. A short review of hypotheses on minke whale stock structure in the Northwestern part of the North Pacific. *Rep. int. Whal. Commn* 47: 553-555.

*Pastene, L.A., Goto, M., Itoh, S., Wada, S. and Kato, H. 1997. Intra- and Inter-Oceanic Patterns of Mitochondrial DNA Variation in the Bryde's Whale, *Balaenoptera edeni*. *Rep. int. Whal. Commn* 47: 569-574.

Wada, S. 1997. Results of allozyme analysis on minke whale samples from JARPN in 1996. Paper SC/49/NP14 presented to the IWC Scientific Committee, September 1997 (unpublished). 2pp.

*Araki, J., Kuramochi, T., Machida, M., Nagasawa, K., and Uchida, A. 1997. A note on the parasite fauna of the western North Pacific minke whale (*Balaenoptera acutorostrata*). *Rep. int. Whal. Commn* 47: 565-567.

Fujise, Y., Shimada, H., Zenitani, R., Goto, M., Tamura, T., Lindstrøm, U., Uchida, A., Yoshida, H., Shimamoto, K., Yuzu, S., Kasai, H., Kinoshita, T., Iwata, T. and Toyama, D. 1997. Cruise report of the Japanese Whale Research Program under a Special Permit in the North Pacific (JARPN) in 1996 with some preliminary analyses of data collected during the 1994-1996 JARPN surveys. Paper SC/49/NP8 presented to the IWC Scientific Committee, September 1997 (unpublished). 38pp.

Ishikawa, H., Yuzu, S., Shimamoto, K., Bando, T., Ohshima, K., Kasai, H., Kinoshita, T., Mizushima, Y., Iwakami, H., Nibe, T., Hosoyama, T., Kuramochi, T., Numano, K. and Miyamoto, M. 1997. Cruise report of the Japanese Whale Research Program under a Special Permit in the North Pacific (JARPN) in 1997. Paper SC/49/NP9 presented to the IWC Scientific Committee, September 1997 (unpublished). 28pp.

[1998](7)

Abe, H., Goto, M. and Pastene, L.A. 1998. Further microsatellite analysis in the western North Pacific minke whales, *Balaenoptera acutorostrata*. Paper SC/50/RMP8 presented to the IWC Scientific Committee, April 1998 (unpublished). 10pp.

Fujise, Y., Zenitani, R. and Kato, H. 1998. An examination of the W-stock hypothesis for North Pacific minke whales, with special reference to some biological parameters using data collected from JARPN surveys from 1994 to 1997. Paper SC/50/RMP12 presented to the IWC Scientific Committee, April 1998 (unpublished). 14pp.

Goto, M. and Pastene, L.A. 1998. Population structure in the North Pacific minke whale as revealed by RFLP and sequencing analyses of the mtDNA control region. Paper SC/50/RMP7 presented to the IWC Scientific Committee, April 1998 (unpublished). 15pp.

*Lindstrøm, U., Fujise, Y., Haug, T. and Tamura, T. 1998. Feeding habits of western North Pacific minke whales, *Balaenoptera acutorostrata*, as observed in July-September 1996. *Rep. int. Whal. Commn* 48: 463-469.

*Pastene, L.A., Goto, M. and Kishino, H. 1998. An estimate of mixing proportion of 'J' and 'O' stocks minke whales in sub-area 11 based on mitochondrial DNA haplotype data. *Rep. int. Whal. Commn* 48: 471-474.

*Tamura, T., Fujise, Y. and Shimazaki, K. 1998. Diet of minke whales *Balaenoptera acutorostrata* in the Northwestern part of the North Pacific in summer 1994 and 1995. *Fisheries Science* 64(1): 71-76.

*Uchida, A., Kawakami, Y., Yuzu, S., Kishikawa, S., Kuramochi, T., Araki, J., Machida, M. and Nagasawa, K. 1998. Prevalence of parasites and histopathology of parasitisation in minke whales (*Balaenoptera acutorostrata*) from the western North Pacific Ocean and Southern Sea of Okhotsk. *Rep. int. Whal. Commn* 48: 475-479.

[1999](5)

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Appendix 2

Protocol for access to samples/data from the Institute of Cetacean Research (ICR), Tokyo, Japan under Procedure B (JCRM 6 (suppl.)): in press

(same as page 14)