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JARPA/JARPA II /NEWREP-A  
による科学的貢献

(一財)日本鯨類研究所



## JARPA/JARPA II /NEWREP-A による科学的貢献

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南極海鯨類捕獲調査 (JARPA) は特別許可の元で、1987/1988 年から2004/2005 年まで南半球における夏の時期に行われました。このJARPA 調査は次の4 つの主な目的がありました：a) 南半球産ミンククジラの資源管理を改善するための生物特性値の推定、b) 南極海海洋生態系における鯨類の役割の解明、c) 鯨類に及ぼす環境変動の影響の解明、及びd) 南半球産ミンククジラ資源管理を改善するための系群構造の解明。

国際捕鯨委員会の科学委員会 (IWC SC) がこのJARPA の成果を検討するため二回にわたってレビュー会議を行いました。1 回目は1997 年 (中間レビュー) で、2 回目は2006 年12 月 (最終レビュー) に行われました。それぞれのレビュー会議報告書はこちらにあります：

<http://www.icrwhale.org/JARPAReview1.html> (中間レビュー)

<http://www.icrwhale.org/pdf/SC59Rep1.pdf> (最終レビュー)

第二期南極海鯨類捕獲調査 (JARPAII) は2005/2006 年及び2006/2007 年の時期に予備調査として着手され、最初の本格調査は2007/2008 年の時期に開始しました。このJARPAII 調査には次の主な目的があります：a)南極海海洋生態系のモニタリング (鯨類資源量動向及び生物特性値、オキアミ資源量及び鯨類の摂餌生態、鯨類に及ぼす汚染物質の影響、鯨類生息環境)、b)鯨類間の競合関係モデリング及び将来における資源管理新規目標 (鯨類間の競合モデル構築、鯨類資源生態系の回復を含む資源管理のための新規目標査定)、c)鯨類資源構造における時期的・空間的変動の解明、及びd) クロミンククジラ資源の資源管理方式の改善。

国際捕鯨委員会の科学委員会 (IWC SC) がこの JARPAII の最初の 6 年間(2005/2006 年～2010/2011 年)に得られた科学データ及び成果を検討するために 2014 年 2 月にレビュー会議を行いました。このレビュー会議報告書はこちらにあります：

<http://www.icrwhale.org/JARPAReview1.htm>

南半球の 2015/16 年夏季から、日本は 12 年間に及ぶ新南極海鯨類科学調査 (NEWREP-A - ニューレップ・エイ) と呼ばれるプログラムを開始しましたが、この NEWREP-A 計画は次の 2 つの主目的で策定されています：a)RMP (改訂管理方式) を適用したクロミンククジラの捕獲枠算出のための生物学的及び生態学的情報の高精度化および b) 生態系モデルの構築を通じた南極海生態系の構造及び動態の研究。

NEWREP-A 調査の最初の 6 年間で終了した後、そのレビューが実施される予定となっています。

### JARPA/JARPA II/NEWREP-A 調査の科学的貢献

JARPA/JARPA II/NEWREP-A 調査の科学的貢献は色々な形態で行われています。これらは、国際捕鯨委員会の科学委員会会議やその他国際機関の科学会議に提出される科学論文、査読制度を持つ科学雑誌への掲載論文や科学討論会における口頭発表になります。

以下の表はJARPA/JARPA II /NEWREP-A調査による国際捕鯨委員会科学委員会（IWC SC）等提出論文、査読制度雑誌掲載論文及び科学討論会における口頭発表の年別の件数を示します。

年	IWC SC 等提出論文	査読制度雑誌掲載論文	科学討論会口頭発表
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	7	7
1997	27	3	4
1998	5	7	2
1999	12	4	6
2000	12	5	10
2001	6	3	15
2002	7	6	15
2003	9	5	22
2004	2	8	14
2005	8	6	21
2006	44	9	12
2007	11	7	6
2008	5	4	8
2009	5	2	8
2010	3	14	1
2011	4	1	3
2012	3	1	3
2013	6	6	0
2014	43	3	6
2015	3	2	1
2016	7	2	2
Total	267	139	215

JARPA/JARPA II /NEWREP-A調査の成果としての国際捕鯨委員会科学委員会会合資料及びその他会議資料や査読制度雑誌掲載論文のリストは付録1にて年別示されています。査読制度雑誌掲載論文はアスタリスク(\*)で印されています。これら論文の筆頭著者が外国科学者であるほとんどの例は、当研究所との調査データ提供依頼によるか共同研究合意の元で行われたものです。一部のケースでは当研究所との正式な契約が無いまま、海外科学者がその解析や論文作成にJARPA、JARPA IIまたはNEWREP-A調査の発表データを使用している例もあります。これらの例は(&)の印しで示されています。

致命的または非致命的調査の標本・データを用いた科学資料及び掲載論文

付録1 のリストでは該当する論文が致命的調査データによるものか非致命的調査データによるものを区別できるよう、また、筆頭著者は邦人か日本人以外の科学者かがどうかが判るよう、文献引用の後に赤色略字で印されています。これらの部類にはレビューペーパー、コメントペーパー等が含まれていません。以下の表ではそれら略字の説明の概略を示します。

L-J	L-F	NL-J	NL-F	L, NL-J
177	36	98	21	43

注意：L-J=致命的調査データ、邦人科学者による科学資料または掲載論文。L-F=致命的調査データ、邦人以外の科学者による論文。NL-J=非致命的調査データ、邦人科学者。NL-F=非致命的調査データ、邦人以外の科学者。L,NL-J=致命的及び非致命的調査データ、邦人科学者。後者にはクルーズレポートや一部の、致命的調査及びバイオプシー標本採集に基づいた遺伝学的分析が含まれています。「邦人・邦人以外」の分類は論文の筆頭著者の国籍に従って示されていますが、当研究所所属外国人研究者一名は例外的に「邦人」の分類に含まれています。

### 大学(卒業・学位)論文

JARPA/JARPAII/NEWREP-A調査の標本・データは大学卒業論文、修士及び博士論文の作成に使われる場合があります。下の表では年別の類別件数を示しています。

年	卒業論文	修士論文	博士論文
1993	1		
1994		1	1
1995	1	1	
1996	1	1	
1997		3	
1998	1		1
1999	3	4	1
2000		1	
2001		2	
2002	5	1	3
2003	2	2	
2004	2	1	2
2005	1	5	2
2006		1	
2007			2
2008	2		
2009	1	3	
2010	1	1	1
2011	1	1	2
2012	1		1
2013		1	
2014		1	
2015			
2016	1		
Total	24	30	16

### その他の科学的貢献

JARPA/JARPAII/NEWREP-A調査の標本・データは専門書の一部内容の他、当研究所季刊誌鯨研通信及び水産資源管理談話会報の刊行物にも使われています。

また、展示用の鯨骨格などJARPA/JARPAII/NEWREP-A調査で採集された生物資料が自治体資料館等に提供された例もあります。

## データの入手及び可用性

JARPA/JARPAII/NEWREP-A調査で得られたすべてのデータ及び標本は規定のデータ入手規約に従い、国内外の科学者集団によって入手可能になっています。付録2では国際捕鯨委員会科学委員会で合意された当研究所のデータ・アクセス・プロトコルを示します。このデータ・アクセス・プロトコルは国際捕鯨委員会科学委員会のウェブサイトにも確認できます。

# Appendix 1

List of scientific papers based on data and samples collected by JARPA, JARPA II and NEWREP-A (peer-reviewed papers and unpublished documents submitted to the IWC/Scientific Committee and other meetings). Asterisks (\*) indicate those papers published in peer reviewed journals. Note: **L-J**= document or publication based on lethal sampling by Japanese scientists; **L-F**= lethal, foreign scientist; **NL-J**= non-lethal, Japanese scientist; **NL-F**= non-lethal, foreign scientist; **L,NL-J**= lethal and non-lethal, Japanese scientist.

Documents or peer-reviewed publications having as a first author a foreign scientist commonly followed a data request or collaboration research agreement with ICR. In a few cases foreign scientists have used published data from JARPA or JARPA II or NEWREP-A in their analyses and papers, without a formal agreement with ICR. These cases are indicated by a symbol (&).

References for documents presented to the IWC Scientific Committee follow the format/style determined by the Scientific Committee. All these documents are available from the IWC Secretariat upon request. Recent documents are also available at the IWC website (<http://iwc.int/sc-documents>).

## [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. **NL-J**

\*Kato, H., Hiroyama, 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. **L,NL-J**

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. **L-J**

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. **L-J**

\*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. **L-J**

## [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. **L-F**

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. **L-J**

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. **L,NL-J**

\*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. **NL-J**

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. **L-J**

\*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). L-J

\*Kasamatsu, F., Kishino, H. and Hiroyama, 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. NL-J

\*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. L,NL-J

\*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. L-J

\*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. L-F

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. NL-J

\*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. L-J

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. L-J

#### [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. L-F

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. L-J

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

\*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. NL-J

\*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. L-J

\*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. L-J

\*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. L-J

\*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 Mathematics* 43(3): 435-453. L-J

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. L-J

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. NL-J

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. L-J

\*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. L-J

\*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. L-J

### [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. L-J

\*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. L-J

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. NL-J

\*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. L-J

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. L-J

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. L-J

### [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. L-F

\*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. L,NL-J

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. L,NL-J

\*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. L-J

\*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). L-J



\*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. [NL-J](#)

\*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. [L,NL-J](#)

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. [NL-J](#)

\*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. [L-J](#)

\*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. [L-J](#)

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. [L-J](#)

#### **[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. [L-J](#)

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. [L-J](#)

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. [L-J](#)

\*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. [L-J](#)

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. [NL-J](#)

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. [L,NL-J](#)

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. [NL-J](#)

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. [NL-J](#)

\*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. [L-J](#)

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## Appendix 2

# Draft Protocol for access to samples/data from the Institute of Cetacean Research (ICR), Tokyo, Japan under Procedure B (JCRM 6 (suppl.): 56-7)

### 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 2 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.