

の不完全燃焼のせいか、1部のグループでは翌朝5時まで議論が続いたといふ。酔いにまかせてか、あるところから、次回は<亜種>を中心にしようという声が出た。この声に、もし御賛同の方がございましたら、ぜひ舞鶴の魚類分類談話会にきて議論に加わって下さい。あるいは

は、こういうテーマがよい、といった御意見がございましたら、中村 泉 (〒625 京都府舞鶴市長浜 京大水産実験所) か中坊徹次 (〒606 京都市左京区北白川道分町 京大農学部水産学科) までお寄せ下さい。

(中坊徹次 Tetsuji Nakabo・中村 泉 Izumi Nakamura)

会 記・Proceedings

昭和 59 年度第 8 回役員会

昭和 60 年 2 月 7 日(木)、於東京水産大学。

出席者：上野、岩井、新井、石山、黒沼、高木、中村、藤田、松浦、望月。

議事：1. 報告事項、2. 学術会議会員選挙の経過を報告し、第 6 部水産学研究連絡委員会会員候補および推薦人をそれぞれ日比谷京、岩井保、第 4 部動物科学研究連絡委員会会員候補および推薦人をそれぞれ上野輝弥、本間義治の各氏とすることを最終的に確認した。3. 決算、予算について検討した。4. 年会運営について検討した。5. 「国際会議」について組織委員会より報告をうけ、検討した。6. その他。

昭和 59 年度第 9 回役員会

昭和 60 年 3 月 19 日(火)、於東京水産大学。

出席者：岩井、阿部、新井、尾崎、黒沼、佐藤、高木、中村、藤田、望月。

議事：1. 第 7 回および第 8 回役員会記録の確認をした。2. 報告事項。3. 予算および決算について検討し、案を作成した。4. 年会運営について検討した。5. 日本学術会議会員選挙における候補者推薦人の選出手続きについて検討し、案を作成した。6. 「国際会議」について組織委員会より報告をうけ、検討した。7. 役員人事について検討し、尾崎久雄氏が編集幹事をやめ、かわりに降島史夫氏が庶務幹事から編集幹事にかわることを了承した。8. その他。

昭和 60 年度年会

昭和 60 年度年会が、昭和 60 年 3 月 31 日(日)～4 月 1 日(月)に、国立科学博物館本館で開催され、以下の会合が行なわれた。

1. 評議員会

3 月 31 日、11:35～12:40、37 名の評議員と 3 名のオブザーバーが出席し、岩井保氏を議長に選出した後、以下の議題で開催された。1. 会長挨拶。2. 昭和 59 年度会務報告。3. 昭和 59 年度決算報告。4. 昭和 59 年度監査報告。5. 昭和 59 年度編集委員会報告。6. 役員人事。7. 日本学術会議会員選挙に関する報告、および選出手続きに関する提案。8. 昭和 60 年度予算。9. 国際魚類研究会議組織委員会報告。10. その他。

選出手手続きに関する提案、8. 昭和 60 年度予算(案)、9. 国際魚類研究会議組織委員会報告、10. その他、このうち、日本学術会議会員選挙における候補者・推薦人の選出手手続きに関する提案は以下の通りである。

「日本学術会議の会員選挙において、当会からの候補者および推薦人の選出手手続きは以下の通りとする。

- (1) 被選挙人を日本人正会員とし、評議員の無記名投票により選挙を行なう。
 - (2) この結果を尊重し、役員会は上位得票者と個別に折衝し、候補者推薦人を決定する。
- なお、どの部・研究連絡委員会に候補者推薦人を出すかは、役員会で決定する。」

以上の提案を含め、これらの議案はすべて承認された。

2. 総会

3 月 31 日、13:00～13:30、約 65 名出席、中村泉氏を議長に選出した後、下記の議題で行なわれた。1. 会長挨拶。2. 昭和 59 年度会務報告。3. 昭和 59 年度決算報告。4. 昭和 59 年度監査報告。5. 昭和 59 年度編集委員会報告。6. 役員人事。7. 日本学術会議会員選挙に関する報告、および選出手手続きに関する提案。8. 昭和 60 年度予算。9. 国際魚類研究会議組織委員会報告。10. その他。

本総会で、日本学術会議会員選挙における候補者・推薦人の選出手手続きに関する提案は原案通り承認された。

3. 研究発表会(第 18 回)

3 月 31 日、9:00～11:30、13:30～17:00、4 月 1 日、9:00～12:00、13:30～17:00、第 1 会場、第 2 会場、および展示発表に分かれ、76 題の研究発表がなされた。参加者は 3 月 31 日は約 240 名、4 月 1 日は約 200 名であった。

Papers presented at the XVIIIth Annual Meeting, 1985

(March 31 to April 1, 1985)

Yoshitaka Yabumoto: Laminid shark teeth of *Carcharodon angustidens* from the Oligocene beds in Kitakyushu, Japan.

Shigeru Shirai and Kazuhiro Nakaya: An undescribed squalid shark collected from Kyushu-

- Palau Ridge.
- Kazuhiro Nakaya, Kazunori Kugai and Toshiaki Watanabe: Deep-water sharks of Okinawa, with comments on classification of the genus *Centrophorus*.
- Sho Tanaka and Kazunori Yano: Review of the squaloid shark genus *Deania* from Japan.
- Kazunori Yano and Sho Tanaka: Biological aspects of the genus *Deania* from Suruga Bay, Japan.
- John D. McEachran and Tsutomu Miyake: Morphological limits and phylogenetic interrelationships of the *Raja* subgenera *Okamejei* and *Raja* (Chondrichthyes, Rajoidei).
- Hajime Ishihara and Reizo Ishiyama: On two undescribed skate species of the North Pacific *Bathyraja* (Elasmobranchii, Rajiformes, Rajidae) and the taxonomy of the genus in the area.
- Satoru Yamanaka, Yoshiharu Honma, Shuichi Ueda and Yutaka Sano: Immunohistochemical study of the serotonin neuron in the central nervous system of the skate, *Raja porosa*.
- Kiyotaka Hatooka and Minoru Toda: An undescribed muraenid species of the genus *Gymnothorax* from Okinawa Island.
- Masaaki Fukuda and Hiroshi Nakano: Relationship between swimming speed and glycogen accumulation of herring larvae.
- Hirofumi Wasada, Kazunori Tachihara, Seiichi Matsui and Seiro Kimura: Some notes on the bitterling, *Rhodeus ocellatus*, in Tatara River system, Fukuoka Pref., and its habitat.
- Nobuhiro Suzuki and Takashi Hibiya: Minute tubercles on the larval skin surface and their phylogenetic implication in bitterlings.
- Atsushi Suzuki and Yasuhiko Taki: Chromosomes and DNA values of *Leptobarbus hoevenii* and *Probarbus jullienii* of the Barbinae (Cyprinidae).
- Hiroya Takahashi: Occurrence of the "dorsal sac" in the testis of a cyprinid, *Pseudorasbora parva*.
- Takanobu Kimura and Eishige Komiya: A male chum salmon ripened in a fresh water tank.
- Shigeru Nakano and Makoto Nagoshi: Regulation of population density and growth of the amago, *Oncorhynchus rhodurus*, population in mountain streams.
- Yoshio Tomoda: On the fossil fish supposedly ancestral to *Plecoglossus altivellis*, collected from the Miocene Matsue Formation.
- Hiroshi Uwa and W. Magtoon: Karyotype and phyletic line of an undescribed ricefish *Oryzias* sp. from northeast Thailand.
- Akihito Prince: *Tridentiger obscurus* (Temminck et Schlegel) and its closely related species.
- Kenji Mochizuki and Shojiro Fukui: Shape, development and replacement of upper jaw teeth in a gobiid fish, *Sicydium plumieri*.
- Toru Takita and Kazuhiro Kawaguchi: Morphology and distribution of the salangid fish, *Neosalanx regani*.
- Keisuke Takata, Akira Goto and Keikichi Hamada: Studies on the population genetics and morphology of *Pungitius pungitius* and *P. sinensis* in the Biwae River.
- Nobuhiko Taniguchi, Yoshiharu Honma and Kenji Kawamata: Genetic distance between anadromous and landlocked forms of the three-spine sticklebacks.
- Yoshiharu Honma, Akira Chiba and Eimitsu Tamura: Electron microscopy of the gonads of the three-spine sticklebacks; the marine form, the landlocked form and their hybrids.
- Minoru Ishida: Revision of three species of the genus *Sebastes* (Scorpaenidae), *S. vulpes*, *S. ijimai* and *S. zonatus*.
- Koji Yokogawa and Akira Ochiai: Revisional studies of the armored searobins, family Peristediidae from Japan.
- Mamoru Yabe: An undescribed cottid fish collected from the Bering Sea.
- Akihiko Shinomiya and Hiroya Takahashi: Physiological mechanism adapted to internal fertilization in marine sculpins.
- Kazuya Usui and Akira Goto: Some considerations on the occurrence of unmatured male populations in *Cottus hangiongensis*.
- Mitsuyoshi Aoki, Makoto Hasashima and Toshihiko Yada: Morphological changes and food habit during growth of the arrow bass, *Terapon jarbua*.
- Masayoshi Hayashi and Hajime Masuda: An undescribed cardinal fish (Apogonidae) collected from Izu Kaiyo-koen, Japan.
- Akihito Kijima, Nobuhiko Taniguchi and Akira Ochiai: Genetic relationship among species and genera of *Trichiurus*, *Decapterus* and *Selar*.
- Yukio Iwatsuki and Masato Akazaki: Division and distribution of the genus *Lutjanus* inferred from the aspects of scales, the phases of preopercular notches and etc.
- Masato Akazaki and Yukio Iwatsuki: A review of genera *Pristipomoides* and *Tropidinius* in the Lutjanidae.
- Kunio Amaoka, Hirokazu Kishimoto, Hiroshi Kohno and Takuya Hamaguchi: An unidentified species of the genus *Macolor*.
- Kunio Sasaki: Interrelationships of *Cynoscion* group (Perciformes, Sciaenidae).
- Koji Kobayashi, Katsumi Suzuki, Tadayasu Suzuki and Shinji Mishina: Hermaphroditism in the four Japanese cirrhitid fishes.
- Kosaku Yamaoka: Trophic morphology and feeding behaviour of 20 epilithic algal feeding cichlids from Lake Tanganyika.

- Masaru Nakamura, Akinobu Nakazono, Hiroshi Ueda, Hirohiko Kagawa, Kohei Yamauchi, Shinji Adachi and Yoshitaka Nagahama: Morphological changes in gonads of mottleystripe rainbowfish, *Halichoeres tenuispinis*, during sex reversal.
- Mitsugu Toyoshima: Revision of the genus *Lycenchelys* from Japan and adjacent waters.
- Jun Nakata, Toshihiro Mizushima and Kazuya Nagasawa: Reproductive cycle of the viviparous eel-pout, *Zoarces elongatus* in Notsuke Bay, eastern Hokkaido.
- Tōru Miki and Shinichi Kanamaru: An undescribed stichaeid fish collected off Akkeshi Bay, Hokkaido.
- Tetsuji Nakabo and San Rin Jeon: An undescribed and an unrecorded calyptodontid species of the genus *Reporomucenus* from the western coast of Korea.
- Teruya Uyeno and Osamu Sakamoto: Fossil scombrid fish of the genus *Scomberomorus* from a Miocene bed in the Chichibu Basin, Saitama Prefecture.
- Keiji Okada and Osamu Okamura: On the morid fishes from the western Pacific.
- Akio Hirai: Electron microscopic observation of the microvole of some pelagic fish eggs.
- Izumi Kinoshita and Tadaichi Kitamura: Fish larvae and juveniles occurring in the surf zones along the Pacific coast of Honshu in summer.
- Takakazu Ozawa and Jai Prasad: Distribution of fish larvae in autumn in the East China Sea and its adjacent regions.
- Takakazu Ozawa and Amane Hayashi: On the occurrence of larvae of three oceano-mesopelagic fishes in Kagoshima Bay.
- Tatsuyoshi Hirata, Akira Goto and Keikichi Hamada: Growth and smoltification of juvenile masu salmon, *Oncorhynchus masou*.
- Rika Hamada, Shinji Fujita and Izumi Kinoshita: Ecology of larval Ayu, *Plecoglossus altivelis*, in the surf zone—II. Gut contents.
- Takakazu Ozawa and Shuichiro Aono: Larvae of the family Melanostomiidae in the ocean off southern Japan.
- Chung-Hui Chen and Muneo Okiyama: Development and distribution of the smallwing flyingfishes (*Oxyporhamphus*, Hemirhamphidae) in the Northwest Pacific.
- Takakazu Ozawa and Takumi Manabe: Larvae of the carangid genus *Decapterus* in the ocean off southern Japan.
- Syunsaku Hamamoto, Shigeru Kumagai, Katsumi Nosaka, Saburo Manabe and Akira Kasuga: Embryonic and larval development of the lutjanid fish, *Lutjanus stellatus*.
- Yoichi Tanaka, Yoshihisa Shiobara, Masamichi Hayashi, Takeshi Furukawa and Masakazu Hattori: Spawning behaviour, eggs and larvae of the hawkfish, *Cirrhitops hubbardi* in an aquarium.
- Katsuyuki Nakamura and Toru Takita: Spawning and embryonic and larval development of the atherinid fish, *Allanetta bleekeri*.
- Syozi Hioki and Katsumi Suzuki: Reproduction, eggs and early larvae of the angelfish, *Centropyge interruptus*, in an aquarium.
- Yoshihisa Shiobara, Katsumi Suzuki and Yōichi Tanaka: Life history of the goby, *Sagamia geneionema*, from Uchiura in Suruga Bay, Japan.
- Takakazu Ozawa and Atsushi Fukui: Larval distributions of 11 bothiid species in the western North Pacific.
- Shiro Fujita and Masaaki Shinohara: Egg development, larval and juvenile stages of the puffer, *Takifugu chrysops*, reared in the laboratory.
- Yoshikazu Nagata, Rikiya Ogawa and Takao Kunitomi: Social organization and mode of spawning of bitterling, *Acheilognathus longipinnis*.
- Eishige Komiyama: Mating system in sea run type of masu salmon: color pattern, relative size and number of female consorts during the spawning.
- Haruki Ochi: Growth in the temperate anemonefish, *Amphiprion clarkii*.
- Makoto Sakurai, Akinobu Nakazono and Hiroshi Tsukahara: Behaviour of male and female surfperch, *Ditrema temmincki*, during the mating season.
- Yasunobu Yanagisawa: Parental care of *Xenotilapia* sp. in Lake Tanganyika.
- Hideaki Nakatani, Akinobu Nakazono and Hiroshi Tsukahara: Mating system and sex change of the sandperch, *Parapercis snyderi*.
- Tomoki Sunobe, Akinobu Nakazono and Hiroshi Tsukahara: Reproductive behaviour of two species of the genus *Eviota*.
- Osamu Ezaki and Akihito Shinomiya: Mating habits of a rockfish *Sebastodes inermis*.
- Akira Goto: Individual marking method and migration in the river sculpin, *Cottus hangiongensis*.
- Akira Kuwamura: Reproductive ecology of *Rhinocanthus aculeatus* (Balistidae).
- Masayoshi Hayashi and Hiroaki Hayashi: On characters for the hierarchy of cling fishes (Gobiesocidae) of Japan.
- Kiyoshi Fujita: Further notes on cartilage structures in the caudal region of teleostean fishes.
- Chung-Hui Chen and Muneo Okiyama: Larvae and juveniles of 24 species of flying fishes (Exocoetidae) from the Northwest Pacific.
- Chung-Hui Chen and Muneo Okiyama: Synonym

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記

list for the flyingfishes (Exocoetidae) recorded from the world.

4. 編集委員会

4月1日 12:00~13:00、18名が出席し、編集上の問題について検討した。

5. 懇親会

3月31日、17:30~19:00、105名が参加し、盛況のうちに懇親と意見の交換が行なわれた。

会員数 (昭和60年2月28日現在)

	国 内	国 外	合 計
個人会員	956	161	1,117
名誉会員	2	1	3
賛助会員	5	—	5
団体会員	65	—	65
購読・寄贈	77	170	247
合 計	1,105	332	1,437

日本魚類学会昭和59年度収支決算書

(自 昭和59年3月1日 至 昭和60年2月28日)

収入の部

単位: 円

科 目	59年度 予算額	59年度 決算額	予-決
会 費	5,369,000	5,524,157	△155,157
正会員会費	4,275,000	4,295,000	
団体会員会費	568,000	636,200	
賛助会員会費	140,000	180,000	
外国会員会費	386,000	412,957	
購 読 料	1,103,000	1,248,900	△145,900
国 内	(496,000)	(414,000)	
国 外	(607,000)	(834,900)	
Back No. 収入	180,000	156,020	23,980
広 告 料	100,000	118,350	△ 18,350
著者負担印刷代	1,100,000	1,216,800	△116,800
学 会 補 助 金	1,840,000	2,040,000	△200,000
雜 収 入	400,000	517,242	△117,242
入 会 金	35,000	44,000	△ 9,000
名簿作成積立金 とりくし収入	0		
会誌発行引当金 戻し入れ収入	460,000	460,000	0
計	10,587,000	11,325,469	△738,469
前年度繰越金	3,551,007	3,551,007	
合 計	14,138,000	14,876,476	△738,469

支出の部			
科 目	59年度 予算額	59年度 決算額	予-決
会誌発行費	6,900,000	6,678,828	221,172
名簿作成費	0		
編集費	400,000	400,000	0
会誌発送費	510,000	517,200	△ 7,200
役員会合費	20,000	190	19,810
年会費	550,000	396,698	153,302
シンポジウム費	70,000	0	70,000
消耗品費	20,000	2,880	17,120
通信費	860,000	441,955	418,045
諸印刷費	500,000	243,585	256,415
人件費	0	0	
交通費	60,000	50,240	9,760
業務委託費	1,770,000	1,724,500	45,500
会員会計	(1,230,000)	(1,184,500)	
会員会計	540,000	540,000	
汁器備品費	0		
雑費	450,000	363,360	86,640
予備費	100,000	367,170	△267,170
会誌発行引当金	460,000	510,000	△ 50,000
名簿作成積立金	100,000	100,000	0
計	12,770,000	11,796,606	973,394
次年度繰越金	1,368,007	3,079,870	△1,711,863
合 計	14,138,007	14,876,476	△738,469

貸借対照表

(昭和60年2月28日現在)

借 方		貸 方	
科 目	金 額	科 目	金 額
流動資産		流動負債	
預 け 金	1,575,769	前 受 会 費	96,400
小 口 現 金	459,715	会誌発行 引 当 金	510,000
未 収 入 金	400,300	名 簿 作 成 積 立 金	400,000
立 替 金	150,486	次 年 度 繰 越 金	3,079,870
定期預金	1,500,000	(前 年 度 繰 越 金)	(3,551,007)
		(今 年 度 欠 損 金)	(△471,137)
合 計	4,086,270	合 計	4,086,270

財産目録

(昭和60年2月28日)

資産の部

科 目	摘 要	金 額
流動資産		
預け金	(財)日本学会事務センター	1,575,769
小口現金	学 会 手 許 金	459,715
未収入金		400,300
	広 告 料	(100,000)
	著者負担印刷代	(300,300)
立替金	学 會 誌 別刷代	150,486
定期預金	日本信託銀行銀座支店	1,500,000
合 計		4,086,270

負債の部

科 目	摘 要	金 額
流動負債		
前受会費		96,400
会誌発行引当金		510,000
名簿作成積立金		400,000
合 計		1,006,400

繰越金

科 目	摘 要	金 額
前年度繰越金		3,551,007
今年度欠損金		471,137
合 計		3,079,870

日本魚類学会昭和60年度收支予算

(自昭和60年3月1日至昭和61年2月28日)

収入の部

科 目	単位: 円	
	59 年度 予算額	60 年度 予算額
会 費	5,369,000	5,371,000
正会員会費	4,275,000	4,275,000 950名× ¥5,000×90%
団体会員会費	568,000	600,000 66件× ¥9,200
賛助会員会費	140,000	160,000 8口×¥20,000
外国会員会費	386,000	336,000 150名
購 読 料	1,103,000	1,248,000
国 内	496,000	414,000
国 外	607,000	834,000
Back No. 収入	180,000	160,000
広 告 料	100,000	100,000
著者負担印刷代	1,100,000	1,150,000
学会補助金	1,840,000	2,040,000
雜 収 入	400,000	450,000
入 会 金	35,000	45,000
名簿作成積立金 とりくすし収入	0	400,000
会誌発行引当金 戻し入れ収入	460,000	510,000
計	10,587,000	11,474,000
前年度繰越金	3,551,007	3,079,870
合 計	14,138,007	14,553,870

支出の部

科 目	59 年度 予算額	60 年度 予算額
会誌発行費	6,900,000	6,900,000
名簿作成費	0	400,000
編集費	400,000	400,000
会誌発送費	510,000	550,000
役員会合費	20,000	20,000
年会費	550,000	550,000
シンポジウム費	70,000	70,000
消耗品費	20,000	20,000
通信費	860,000	560,000
諸印刷費	500,000	300,000
人件費	0	0
交通費	60,000	60,000
業務委託費	1,770,000	1,880,000
会員	1,230,000	1,280,000
会計	540,000	600,000
汁器備品費	0	300,000
雜費	450,000	400,000
予備費	100,000	400,000 国際魚類会議 補助金を含む
会誌発行引当金	460,000	510,000
名簿作成積立金	100,000	0
計	12,770,000	13,050,000
次年度繰越金	1,368,007	1,503,870
合 計	14,138,007	14,553,870

会 記

第2回太平洋・インド洋の魚類に関する 国際研究会議の概要

1. 会議の名称

和文名: 第2回太平洋・インド洋の魚類に関する国際研究会議 (略称: 国際魚類研究会議)

英文名: Second International Conference on Indo-Pacific Fishes (略称: Indo-Pacific Fish Conference)

2. 主催・共催・後援・協賛団体

主催: 第2回太平洋・インド洋の魚類に関する国際研究会議組織委員会

共催: 日本魚類学会

後援: 国立科学博物館

協賛: 農林水産省

3. 本部・会場・会期

本部: 国立科学博物館 (上野公園内)

会場・会期: 開会式・学術講演会・シンポジウム
(1985年7月28日～8月3日 7日間)

国立科学博物館および東京国立博物館
(上野公園内)

エクスカーション現地討論会
(1985年8月4日～8月10日 7日間)
A) 三宅島, B) 鹿島, C) 京都・舞鶴,
D) 京都・高知, E) 沖縄

4. 会議の目的と性格

太平洋・インド洋の魚類の基礎研究を行ってきた多くの国の研究者が一堂に会して研究結果を発表し、議論を行い、共通の理解を深めることを目的とする。

日本は世界に冠たる水産国であり、太平洋・インド洋域には好漁場も多く、各国の経済水域の設定に伴って諸国との協議が重要な状況である。しかし当海域の魚類の基礎研究は遅れており、国際的な視野に立った科学的な魚類の研究を一層深める必要がある。

そのために、一般研究発表と8つのシンポジウムを行う。その後、5つのグループに分かれてエクスカーション現地討論会を行い、共通の理解を図り、友好と親善を深める計画である。

5. 日本開催の経緯

1981年9月7日～11日に、オーストラリアのシドニーにあるオーストラリア博物館において、太平洋・インド洋の魚類に関する国際研究会議が開かれ100名の魚類研究者が集まって研究発表と意見の交換が熱心に行われた。この会議には日本から5名が出席したが、諸国の大半より次回を北半球にある日本で開催するよう強い要望があった。日本魚類学会はこの要望に応えるため1984年4月から第2回太平洋・インド洋の魚類に関する国際研究会議組織委員会を発足させた。

6. シンポジウムの題目

責任担当者

ハゼ亜目魚類の系統と進化 P. J. Miller・高木和徳

円口類の系統と進化 I. C. Potter・本間義治

サメ・エイ類の系統と進化 (M. Stehmann・谷内透
G. Dingerkus)

礁魚の繁殖生態と進化 J. T. Moyer・中園明信

稚魚の形質と進化 J. M. Leis・沖山宗雄

魚類の分布パターンと進化 T. R. Roberts・上野輝弥

大型回遊魚の系統と進化 B. B. Collette・中村 泉

魚類の染色体と進化 E. H. Park・小島吉雄

7. 使用言語

発表・講演要旨・プロシーディングの原稿はすべて英語。

8. 会議日程(暫定的)

7月28日(日) 14:00 登録および要旨集等配布(国立科学博物館)

16:00 オリエンテーション(同上)

研究発表はすべて東京国立博物館で行ないます。

	大 講 堂	会 議 室 I	会 議 室 II
7月29日(月) 09:30	開会式		
10:30	記念講演 日本における魚類学の歴史と展望		
12:00	日本の魚類相 記念写真撮影		
13:30	シンポジウム	シンポジウム	シンポジウム
16:45	ハゼ亜目魚類の系統と進化	円口類の系統と進化	サメ・エイ類の系統と進化

7月30日(火)	09:15	一般研究発表	同上	同上
	12:15			
7月31日(水)	13:45	同上	同上	同上
	16:45			
8月1日(木)	09:15	同上	シンポジウム 礁魚の繁殖生態と進化	同上
	12:15			
8月2日(金)	13:45	同上	シンポジウム 大型回遊魚の系統と進化	
	16:45			
8月3日(土)	17:00	自由時間 (標本調査国立科学博物館分館にて茶話会)		
8月4日(日)	09:15	一般研究発表	シンポジウム 稚魚の形質と進化	シンポジウム 魚類の分布パターンと進化
	12:15			
8月5日(月)	13:45	同上	同上	同上
	16:45			
8月6日(火)	09:15	同上	シンポジウム 魚類の染色体と進化	同上
	12:15			
8月7日(水)	13:45	同上		
	16:45	閉会式		

9. 社交行事

- A) 国立科学博物館長招待のレセプションが7月29日(月)17:30より19:00の間に、上野精養軒で開かれます。
- B) 東京での会議の最終日8月3日(土)19:00より20:20の間に霞ヶ関ビル33階の東海大学校友会館で“サヨナラ”パーティーが行なわれます。

C) 8月1日(木)17:00より国立科学博物館分館の方々の御好意で簡単な茶話会程度の非公式なパーティーが開かれます。これは科博の標本を調べに来た人々を対象としたものですが、そうでない方々の参加も大歓迎です。

10. 参加費

一般: 30,000円、学生(院生): 20,000円。

参加費にはプログラム、講演要旨集、記念写真、プロシーディング(昭和61年3月までに発行)、“サヨナラ”パーティーの費用が含まれています。参加費は6月30日までに郵便振替で送金して下さい。(配布資料の準備ができませんので、当日の申し込みは受け付けられません。)

11. 昼食

会場の近辺に適当な食堂がありませんし、参加者相互

の交流を深めるためにも昼食の準備をする予定です。会議の全期間7月29日から8月3日までの毎日で、代金は約4,200円の予定です。なお、代金は登録時に御支払い願います。

12. 宿泊

参加者相互の討論と交流を深めるために、国内からの参加者も、国外からの参加者と同じホテルに泊れるようと考えております。予約の枠があり、国外からの参加者を優先致しますので、事務局が用意したホテルに泊れない場合もある事を御承知のうえ、ホテルの予約を希望される方は事務局まで御一報下さい。

13. 事務局からのお知らせ

講演者はスライド等の位置を指定した完全な講演原稿を用意して下さい。このことは英語での発表をスムーズに行なうためにも、また事故により代読者をたてる場合にも必要な事です。

14. 組織委員会名簿

名誉総裁 皇太子明仁親王殿下

顧問 檜山義夫 東京大学名誉教授

鈴木善幸 衆議院議員

亀長友義 参議院議員、大日本水産会長
上野輝弥(委員長)、石山礼蔵(募金委員長)、岩井保

(副委員長), 黒沼勝造(副委員長), 阿部宗明(副委員長), 中村守純(副委員長), 新井良一(庶務幹事・事務局長), 望月賢二(庶務幹事), 松浦啓一(庶務幹事), Moyer, J. T. (庶務幹事), 隆島史夫(会計幹事), 谷内透(会計幹事), 赤崎正人, 尼岡邦夫, 井田 齊, 江上信雄, 岡村 収, 冲山宗雄, 小島吉雄, 落合 明, 佐藤寅夫, 高井 敬, 高木和範, 多紀保彦, 道津喜衛, 富永義昭, 中瀬明信, 中村 泉, 服部 仁, 浜田啓吉, 藤田矢郎, 本間義治, 吉野哲夫。

15. 発表予定者と演題

28カ国 194人から講演の申し込みがありました。

Argentina

Menni, R. C. Shark biology in Argentina: a review.

Australia

Hartwick, R. F. and N. E. Milward. Temporal and spatial distribution of fish larvae across the continental shelf zone of the Great Barrier Reef, North Queensland, Australia.

Hoese, D. F. Indo-Pacific genera of gobiid fishes.

Kailola, P. J. Ariidae systematics: comparison of the giant sea catfishes *Arius thalassinus* and *Arius bilineatus* of the Indo-Pacific. (poster presentation)

Larson, H. K. The species of the commensal goby *Bryaninops* and related genera.

Last, P. R. Zoogeography of Tasmanian fishes.

Leis, J. M. Ecological requirements of Indo-Pacific larval fishes: a neglected zoogeographic factor.

Milward, N. E. Sex change in the threadfin, *Polynemus heptadactylus* Cuvier, and a consideration of the phenomenon in this and other tropical Indo-Pacific fishes.

Miskiewicz, A. G. Comparison of the seasonality and size at entry into an estuarine lagoon of three species of sparid fish.

Paxton, J. R., D. F. Hoese, G. Allen and J. Gates. Zoogeographic patterns of Australian fishes.

Potter, I. C. Comparisons between lampreys of the Northern and Southern Hemispheres.

Stevens, J. D. Reproductive strategies in carpetshark and hemigaleid sharks.

Thresher, R. E. Interrelationships of early life history parameters in coral reef fishes, with reference to the adaptive significance of the pelagic and demersal spawning modes.

Williams, D. M. and S. A. English. Distribution of fish larvae in proximity of coral reefs (Central Great Barrier Reef): potential consequences for dispersal.

Woodland, D. J. Quaternary changes in sea level and speciation in Indo-Pacific reef fishes.

Brazil

Lessa, R. and C. M. Vooren. Migration and the

reproductive cycle of the guitarfish *Rhinobatos horkelii* (Müller & Henle, 1841) from Brazilian coast.

Canada

Beamish, R. J. and R. E. Withler. A lamprey that appears intermediate between a parasitic and a non-parasitic form.

Keenleyside, M. H. A. Reproductive behaviour of coral reef fishes.

Winterbottom, R. Phylogeny and biogeography of congergadid pseudochromids.

Youson, J. H. and R. J. Beamish. Morphological comparison of organs in several species of lampreys on the west coast of Canada.

China

Chang, Mee-Mann and C. C. Chow. Stratigraphic and geographic distributions of the Late Mesozoic and Mesozoic fossil fishes from China.

Chen, Yiyu. Ichthyofauna of the Zhujiang River (Pearl R.) with a discussion on zoogeographical divisions for freshwater fishes.

Chen, Zhenran and Wei Shuzhen. Ecological characteristics of the distribution of eggs and larvae of flying fishes, Exocoetidae and *Oxyporhamphus*, in South China Sea.

Cheng, Qingtai. Systematics and distribution of labroid fishes of China.

Chu, Xin-Luo. Ichthyofauna and its geographical subdivisions in Yunnan, China.

Deng, Siming and Zhan Hongxi. Comparative studies of the lateral line canal system of Formionidae and other eight families.

Huang, Zongqiang. Studies on the pelagic phototactic fish community in the southern part of the Taiwan Strait. I. Time variation in fish community structure. (with Shi Bingzhang)/On the fish faunas of the southern part of Taiwan Strait adjacent area.

Li, Chunsheng. Studies on the Chinese swellfish of the genus *Lagocephalus* (Tetraodontidae, Teleostomi).

Li, Shushen. The systematic classification and distribution and evolution of glyptocephalic fish (*Glyptocephalus* Blyth, 1860, Sisoridae).

Li, Sizhong. Discussion on the geographical distribution of Xenocyprinidae (Pisces: Cyprinidae) in China.

Liu, Lingyun, Liu Yan, Di Shaojie and Fei Qing. Studies on making fish chromosomes elongated with high resolution G-banding.

Meng, Qing-wen. Notes on systematics of Platyrhinidae.

Su, Jinxiang and B. B. Collette. Distribution patterns of Far East halfbeaks (Hemiramphidae) and needlefishes (Belonidae).

- Wand, Cunxin. Studies on the Chinese sparoid fishes.
- Wu, Hanling and Zhu Yuanting. A study of the fin patterns of Chinese gobioid fishes.
- Yang, Jiaju. On the fauna and the geographical distribution of the deep pelagic fishes in the South China Sea.
- Zan, Ruiguang, Song Zheng and Liu Wanguo. Studies of karyotypes and nuclear DNA contents of some fishes, with notes on fish polyploids in China.
- Zang, Qiyong and Yazhi Zhang. On the fish fauna of the Taiwan Strait.
- Zhang, You-wei. Studies on the upstream migration and geographical distribution of the common eel in China. (with Xiao Zheng-yi and Zhang Shi-yi)/Studies on the metamorphosis of the snake eel, *Cirrhimuraena chinensis* Kaup. (with Xiao Chen-yi and Xu Diang-Shang).
- Zheng, Wenlian. A study on the olfactory organ of carangoid fishes and its significance in taxonomy.
- Zhou, Cai-Wu, Cai De-Ling and Yan Qin. On the classification and distribution of the sinipercoide fishes (family Serranidae) of East Asia.
- (Taiwan)
- Mok, Hin-Kiu. Myology, osteology, and phylogeny of carangid fishes.
- Shao, Kwang-Tsao. Phylogenetic inference of Priacanthidae from morphometric studies.
- Shen, Shin-Chieh. A new stingray of the genus *Hexatrygon* from Taiwan with comparisons of nominal species.
- Tzeng, Chyng-Shyan. Studies on the distribution of the freshwater fishes of Taiwan.
- Fiji
- Ryan, P. A redescription of *Stiphodon elegans* (Steindachner) with a description of a new species.
- France
- Bauchot, M. L. and R. Bauchot. Encephalization and locomotion in teleost fishes of tropic seas.
- Mellinger, J., F. Wrisez and M. J. Alluchon-Gerald. Developmental biology of an oviparous shark, *Scyliorhinus canicula*.
- Seret, B. Deep-sea skates of Madagascar.
- F. R. Germany
- Bartels, H. and U. Welsch. Comparative histology and histochemistry of the gill epithelium in cyclostomes.
- Fricke, R. Zoogeography of the callionymid fishes of the Indian Ocean.
- Klausewitz, W. Redescription of *Orthacanthus senckenbergianus* Fritsch 1889/The characteristics of the deep sea ichthyoфаuna of the Red Sea.
- Stehmann, M. Notes on systematics of the rajid genus *Bathyraja* and its distribution in the world oceans.
- India
- Agarwal, A. Karyotypic evolution in family Channidae.
- Jayaram, K. C. Phylogeny of the Indo-Pacific fish genera of the family Bagridae.
- Jyoti, M. K. and Y. R. Malhotra. Relationship between feeding and gonadal cycle of some Kashmiri fishes.
- Khuda-Bukhsh, A. R., T. Chanda and A. Barat. Karyomorphology and evolution in some Indian hillstream fishes with particular reference to polyploidy in some species.
- Krishnamoorthi, B. and I. Jagadis. Biological studies with relevance to population dynamics in the grey dog shark, *Rhizoprionodon (Rhizoprionodon) acutus* (Rüppell) in waters off Madras.
- Menon, A. G. K. Distribution of Cobitoidea in space and time.
- Rama-Rao, K. V. and S. V. Baskaran. Distribution of scorpaenid fish larvae in the Indian Ocean.
- Rishi, K. K. and M. S. Haoban. Chromosomal data of six perches with comments on the karyotypes of Perciformes.
- Singh, H. T. and W. V. Singh. Studies on the fish fauna of Manipur.
- Iraq
- Al-Daham, N. K. Poisonous fishes of the Arab Gulf.
- Al-Hassan, L. A study on phosphoglucose isomerase enzyme in some elasmobranch fishes collected from Khor Al-Zubair, northwest of the Arabian Gulf, Iraq.
- Israel
- Baranes, A. Comparative systematics and reproduction of the Red Sea sharks of the family Carcharhinidae.
- Ben-Tuvia, A. On two species of goatfishes of the genus *Upeneichthys* Bleeker from Australia and New Zealand./ New records and new data from the Mediterranean coast of Israel on Indo-Pacific Suez Canal immigrants. (with D. Golani.)
- Fishelson, L. Social biology and ecology of acanthurid fish near Eilat (Gulf of Aqaba, Red Sea) (with L. W. Montgomery and A. A. Myberg)./ Biology and ecology of coexistence of two species of the genus *Dascyllus* (Pomacentridae) in the Gulf of Aqaba (Red Sea).
- Goren, M. A suggested model for the recolonization process of the Red Sea at the Post Glacial Period.
- Italy
- Cigala Fulgosi, F. Deep-water elasmobranch fauna from a Lower Pliocene Mediterranean outcropping (Northern Italy).
- Stingo, V. and T. Capriglione. DNA and chromo-

somal evolution in the cartilaginous fishes.

Korea

Kim, J. Taxonomy and zoogeography of the cobitid fish genus *Cobitis* (Pisces: Cobitidae) from Korea.

Lee, T. and J. Kil. Reproductive ecology of the scaled sardine, *Harengula zunasi*, in Cheonsu Bay, Korea.

Park, E. H. and F. T. Hatch. Density gradient fractionation of DNA of two Pacific anguillloid fishes (Teleostomi; Anguilliformes).

Malaysia

Liew, H. C. Morphological relationships between larval flatfishes (Fam. Psettodidae and Bothidae) from the shelf waters of the Central Great Barrier Reef, Australia.

Mexico

Findley, L. T. Review of eastern Pacific *Chirolepis* with comments on convergent morphologies in other cryptobenthic Indo-Pacific gobioids.

New Zealand

Hardy, G. S. The status of some species in the family Tripterygiidae, from New Zealand.

Pakistan

Hoda, S. M. S. A contribution to the marine fisheries of Pakistan.

Papua New Guinea

Colin, P. L. Aspects of the early life history of the anomalopid fishes *Anomalops katoptron* and *Photoblepharon palpebratus*. Spawning activity of labroid fishes in an area of strong tidal currents at Eniwetok Atoll, Marshall Islands. (with L. J. Bell.)

Kan, T. T. and I. D. McCallum. Occurrence of *Mastrus lanceolatus* (Lienard, 1840) (Molidae) in western Pacific ocean.

Philippines

Bagarinao, T. and Y. Taki. The larval and juvenile fish community in Padan Bay, Panay Island, Philippines.

Puerto Rico

Hensley, D. A. Currents research on Indo-Pacific bothids.

South Africa

Gon, O. Redescription of *Apogon (Ostorhinchus) fleurieu* (Ladcepède, 1802) with notes on the synonymy of the name.

Oelofsen, B. W. A fossil shark neurocranium from the Permo-Carboniferous (Lowermost Ecca Formation) of South Africa.

Spain

Munoz-Chapuli, R. and C. M. Garcia Garrido. Cephalic blood vessels in elasmobranchs, their anatomy and phylogenetic implications.

Sweden

Fernholm, B. A review of Japanese hagfish systematics.

Malmqvist, B. Reproductive ecology of lampreys.

Olsson, R. The preoral organ of larval *Branchiostoma*, an adenohypophysis cognate?

Thailand

Magtoon, W. and H. Uwa. Distribution and phyletic relationships of *Oryzias* fishes in Thailand.

Monkolprasit, S. The electric rays of Thailand.

UK

Davies, D. H., R. Lawson and S. J. Burch. Relationships of cartilaginous fishes I: An immunological study of holocephalus and elasmobranchs based on the antigenic characteristics of isolated serum transferrin.

Lawson, R., D. H. Davies and S. J. Burch. Relationships of cartilaginous fishes II: An immunological study of serum transferrin of squaloid and galeoid sharks and the skates, *Raja clavata*.

Miller, P. J. Reproductive biology and the systematics of gobioid fishes.

Whitehead, P. J. P. Taxonomic problems in Japanese clupeoid fishes.

USA

Barlow, G. W. Monogamy; coral-reef fishes compared with freshwater fishes.

Benz, G. W. The morphology of the olfactory organs of sharks.

Birdsong, R. S., E. O. Murdy and F. L. Pezold. Phylogenetic implications of the osteology of the vertebral column and median fins in gobioid fishes.

Blum, S. D. Phylogenetic relationships among the Chaetodontidae: a cladistic interpretation of osteology.

Bond, C. E. and T. T. Kan. Systematics and evolution of the lampreys of Oregon.

Branstetter, S. Age and growth of carcharhinid sharks common to the Gulf of Mexico.

Brothers, E. B. Reproductive ecology and biogeography of Indo-west Pacific Angelfishes./ Pelagic duration, dispersal and the distribution on Indo-Pacific coral reef fishes. (with R. E. Thresher.)

Burgess, G. H. and S. Springer. Western North Atlantic sharks of the genus *Etmopterus* (Squalidae, Etmopterinae).

Cailliet, G. M., R. L. Radtke and B. A. Welden. Elasmobranch age determination and verification techniques: application to California elasmobranchs.

Caprio, J., E. Zeiske and S. H. Gruber. Morphological and electrophysiological studies on the olfactory organ of the lemon shark.

Carlson, B. The mating system of the spotted coral blenny, *Exallias brevis*.

Collette, B. B. and J. L. Russo. Systematic status of

- the suborder Scombroidei.
- Dingerkus, G. Interrelationships of orectolobiform sharks.
- Ebert, D. A. Biology of hexanchid sharks along the California coast.
- Epple, A. and I. C. Potter. The cardiovascular chromaffin cell system of lampreys in phylogenetic perspective.
- Fischer, E. A. Mating systems of simultaneously hermaphroditic serranids.
- Fitzsimons, J. M. and R. T. Nishimoto. Courtship behavior and coloration in the endemic Hawaiian freshwater goby, *Lentipes concolor*.
- Gibbs, R. H., Jr. and J. F. McKinney. Systematics and distribution of the *Astronesthes chrysophekadiion* species complex (Stomiidae).
- Gilmore, R. G. Reproductive strategies in lamnid sharks.
- Grimes, D. J. The microbiology of sharks.
- Gruber, S. H. Bioenergetics of the lemon shark, *Negaprion brevirostris* (Poey) under laboratory and field conditions.
- Hamlett, W. C. Prenatal nutrient absorptive structures in Selachians.
- Hasting, P. A. Determinants of male reproductive success in *Coralliozetus angelicus* (Blennioidea: Chaenopsidae).
- Hodgson, E. S. Sensory adaptions of shark to coral reef ecology.
- Iwamoto, T. and Y. I. Sazanov. Review of the genus *Coryphaenoides* (Macrouridae) from the southeastern Pacific.
- Johnson, G. D. Scombroid phylogeny: an alternate hypothesis./*Luvarus imperialis* (Luvaridae): an oceanic acanthuroid. (with J. C. Tyler, I. Nakamura and B. B. Collette.)
- Mallatt, J. Gill structure and the evolutionary relationships of hagfish and lampreys.
- McEachran, J. D. and T. Miyake. Anatomical analysis of a proposed monophyletic group of skates (Chondrichthyes, Rajoidei).
- Murdy, E. O. and R. S. Birdsong. Distribution tracks of putative groups of gobioid fishes.
- Notarbartolo-di-Sciara, G. Morphology and organization of mobulid dentition.
- Pezold, F. and H. K. Larson. Systematics of the gobioid genus *Oxyurichthys*.
- Poss, S. G. The systematic position of the scorpaenoid fish *Eschmeyer nexus* and the interrelationships of the *Cocotropus*-stem scorpaenoids.
- Randall, J. E. The fish fauna of Johnston Island./ Refutation of lengths of 9 and 11.3 meters attributed to the great white shark (*Carcharodon carcharias*).
- Raschi, W. and J. E. Elson. The role played by agleoid dermal denticles in drag reduction.
- Reese, E. S. and T. F. Hourigan. Mating systems in fishes of the family Chaetodontidae: pair bonding and monogamy.
- Roberts, T. R. Geographical distribution of freshwater fishes in tropical Asia.
- Ross, R. M. Social organization and mating system of the Hawaiian reef fish *Thalassoma duperrey* (Labridae).
- Schwartz, F. J. and N. B. Maddock. Comparisons of karyotypes and cellular DNA contents within and between major lines of elasmobranchs.
- Schweitzer, J. Central nervous system representation of electroreception in elasmobranchs: implications for vertebrate evolution.
- Stein, D. L. A unique pair of pelagic species of Liparidae.
- Warner, R. R. The determinants of the mating system in a coral reef fish: an experimental analysis.
- Wolfson, F. H. The occurrence of *Rhincodon typus* Smith, 1828 (Chondrichthyes: Rhincodontidae).
- Zorzi, G. and L. J. V. Compagno. Reported occurrences of elasmobranch fishes in rivers and freshwater lakes of the Indo-Pacific region—an update.
- Yugoslavia**
- Knezevic, B. East Pacific species of fishes in the Mediterranean Sea with reference to the Adriatic Sea, Yugoslavia.
- Japan**
- Prince Akihito. Some morphological characters considered to be important in the gobiid phylogeny.
- Chiba, A. and Y. Honma. Comparative anatomy of the brainventricular system of the lamprey and hagfish.
- Fujii, E. Zoogeographic analysis of deep-sea fishes in the Indo-Pacific.
- Fujita, H., Y. Honma and A. Chiba. Evolution of the thyroid in cyclostomes.
- Fukayama, S. Some aspects on reproductive physiology of females of lampreys *Lampetra japonica* and *L. reissneri*.
- Goto A. Polygynous mating system and reproductive strategy in freshwater sculpins.
- Haneda, Y. On a new type of luminous fish and squid light-emitting substances derived from the diet.
- Hosoya, K. Interrelationships of Gobioninae (Cyprinidae).
- Ida, H. and T. Asahida. Karyotypes of *Chlamydoselachus* and other primitive sharks and their systematic implications.
- Ishida, M. Comparative osteology and myology of caudal fin in the scorpaenoid fishes.
- Ishihara, H. and R. Ishiyama. Systematics and dis-

- tribution of the skates of the North Pacific.
- Ishihara, M. Reproductive strategy of *Pomacentrus celestis*.
- Ishino, K. Evolution and adaptation of life histories in three types of a freshwater goby, *Chaenogobius annularis*.
- Iwahori, S. A Golgi study on the habenula in the red stingray (*Dasyatis akajei*).
- Iwamizu, M. and Y. Itazawa. Modification of muscular and vascular plan in carangids for increase in size and activity.
- Iwatsuki, Y. and M. Akazaki. Generic relationships in four subfamilies of the Lutjanidae.
- Kafuku, T. Distribution and phylogeny of cyprinid species in the Indo-Pacific, based on intestinal coiling pattern.
- Kido, K. and D. Kitagawa. Development of larvae and juveniles of *Rhinoliparis barbulifer* (Liparidae).
- Kijima, A., N. Taniguchi and A. Ochiai. Genetic relationships in the family Carangidae.
- Kobayakawa, M. Phylogeny of the family Siluridae (Siluriformes). (poster presentation)
- Kobayashi, K., S. Tomonaga and K. Hagiwara. Immunoglobulin of the hagfish: molecular structure and evolution.
- Kuwamura, T. Sex of the mouthbrooder, with reference to the ancestral parental behavior and reproductive success.
- Maekawa, K. and T. Hino. Alternative reproductive tactics of lucustrine Miyabe charr and anadromous dolly varden. (poster presentation)
- Miki, T. Geographic variation of meristics in a pholidid fish, *Rhodomenichthys dolichogaster*, around Hokkaido.
- Minami, T. Comparative studies on the early life history of Japanese pleuronectiid flatfishes (Pleuronectinae).
- Miya, M. and T. Nemoto. The vertical distributions and life history of mesopelagic fishes of the genus *Cyclothona* (family Gonostomatidae) in Sagami Bay, Central Japan. (poster presentation)
- Miyagawa-Kohshima, K. Experimental analysis of symbiosis between anemonefish and sea anemone. (poster presentation)
- Miyake, T. and J. D. McEachran. The systematics of the stingrays genus *Urotrygon* with comments on its interrelationships with other stingrays.
- Mizuno, N. and S. Nishijima. Ethological and genetical isolation among 11 colour types of a freshwater goby, *Rhinogobius brunneus*, in Japan.
- Nakabo, T. Ancestor-descendant relationship found in two dragonets genus *Reporcenus* (Callionymidae) based on their geographical distributions.
- Nakajima, T. Fossil pharyngeal teeth of cyprinids from the Iga Formation of the Kobiwako Group. (poster presentation)
- Nakamura, I. Systematics, evolution and ecology of the billfishes.
- Nakao, T. and A. Ishizawa. Some aspects of the morphogenesis in larval lampreys.
- Nakaya, K. Revisional study of Japanese species of the genus *Apristurus* (Scyliorhinidae).
- Nishida, K. Phylogenetic relationships of the suborder Myliobatoidei.
- Nishida, M. Geographic variation in molecular, morphological and reproductive characters in ayu (*Plecoglossus altivelis*) in the Japan-Ryukyu Archipelago.
- Okiyama, M. Ipnopid fishes (Myctophiformes) from the western North Pacific.
- Ozawa, T. The larvae of the family Paralepididae from the ocean off southern Japan.
- Sasaki, K. Phylogenetic relationships of the family Sciaenidae (Teleostei, Perciformes).
- Sato, T. A systematic review of the sparoid fishes of the subfamily Monotaxinae.
- Shinomiya, A. Social structure and reproductive behavior of the marine sculpin *Pseudoblennius percoides* in southern Japan.
- Shirai, S. Phylogeny and classification of the family Dalatiidae.
- Tabeta, O., K. Tanaka, J. Yamada and Wann-Niam Tseng. An aspect of the early life history of Japanese eel, *Anguilla japonica*, from otolith microstructure.
- Takagi, K. and Sai-Bin Chen. Validity in nomenclature of the genus *Hazeus*. (poster presentation)
- Tanaka, Y. Architectural difference of intestinal vasculature in cyclostomes and its significance in hematopoietic organogenesis.
- Taniguchi, N., Fujita and M. Akazaki. Genetic divergence and systematics in sparid fish from Japan.
- Teshima, K. and S. Tomonaga. Reproduction of Aleutian skate, *Bathyraja aleutica* with early embryonic development.
- Tominaga, Y. On the relationships of the families Pempheridae and Glaucosomatidae.
- Tomoda, Y. Ichthyofauna and geological study of the Lake Biwa.
- Tomonaga, S., K. Yamaguchi and A. Awaya. Phagocytic cell system in the hagfish.
- Tsuji, T. and I. Naito. Renal morphology of cyclostomes: a scanning and transmission electron microscope study.
- Tsuneki, K. Reproductive biology of the Pacific hagfish *Eptatretus burgeri*.
- Ueyanagi, S. and Y. Nishikawa. Distribution of the larvae of oceanic scombrid fishes.
- Uwa, H. Karyotype evolution and relationships in

- ricefish, genus *Oryzias*.
Uyeno, T. Biogeographic changes of Japanese fish fauna after Cretaceous.
Yabe, M. Myology of a Baikal oil fish, *Comephorus dybowskii*.
Yamakawa, T. T. Taniuchi and Y. Nose. Review of *Etomopterus lucifer* group (Elasmobranchii, Squalidae) in Japan.
Yanagisawa, Y. and H. Ochi. Stepfathering in the anemonefish: a removal experiment.
Yano, K. and S. Tanaka. A telemetric study on the movement of the deep sea squaloid shark, *Centrophorus acus*.
Yatsu, A. Phylogeny and zoogeography of the subfamilies Xiphisterinae and Cebidichthyinae (Blennioidei, Stichaeidae).
Yogo, Y. Protogyny, reproductive behavior and social structure of the anthiine fish *Anthias (Franzia) squamipinnis*.

訂正・Errata

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- Page 374, right column, 2nd paragraph (key), 19th line, “*interrupta*” should read “*interrupta*”; 3rd paragraph, 8th line from bottom, “Kurume, Tokyo” should read “Kurume; Tokyo”.
Page 378, Table 1, Transverse scales, numeral 1 (below 13) for *O. o. potamophila* should be shifted one column to the right (below 14).
Page 380, left column, **Description**, 5th line, “VI-VIII” should read “VI-VII”; 9th line, “(30-33)” should read “(30-35)”: right column, 3rd paragraph, 5th and 7th lines, “*Preccottus*” should read “*Perccottus*”; 5th paragraph, 1st line, “synonymizep” should read “synonymized”.
Page 382, left column, 2nd paragraph, 17th line, “Kum River, Pyuo-gun” should read “Gum River, Puyo-gun”: right column, 2nd paragraph, 2nd line, “14-15” should read “14-17”; 3rd line, “35” should read “34”; 5th line, “14 (14-18); predorsal scales 26” should read “15 (14-18); predorsal scales 25”.
Page 383, right column, 6th line from bottom, “Hyon-ri” should read “Myon-ri”.
Page 384, right column, last paragraph, 8th line from bottom, “22” should read “23”.
Page 385, left column, **Remarks**, 2nd line, “a, b, c,” should read “a, b, d.”.
Page 387, right column, Japanese abstracts, 10th line, “*interruta*” “*interrupta*”.