

神奈川県立博物館自然部門資料目録（7）

Gerard Ramon Case 軟骨魚類化石標本目録
第2集 中生代・新生代軟骨魚類化石

CATALOGUE OF THE CHONDRICHTHYAN SPECIMENS GERARD RAMON CASE
COLLECTION OF THE KANAGAWA PREFECTURAL MUSEUM
PART 2 MESOZOIC AND CENOZOIC CHONDRICHTHYES

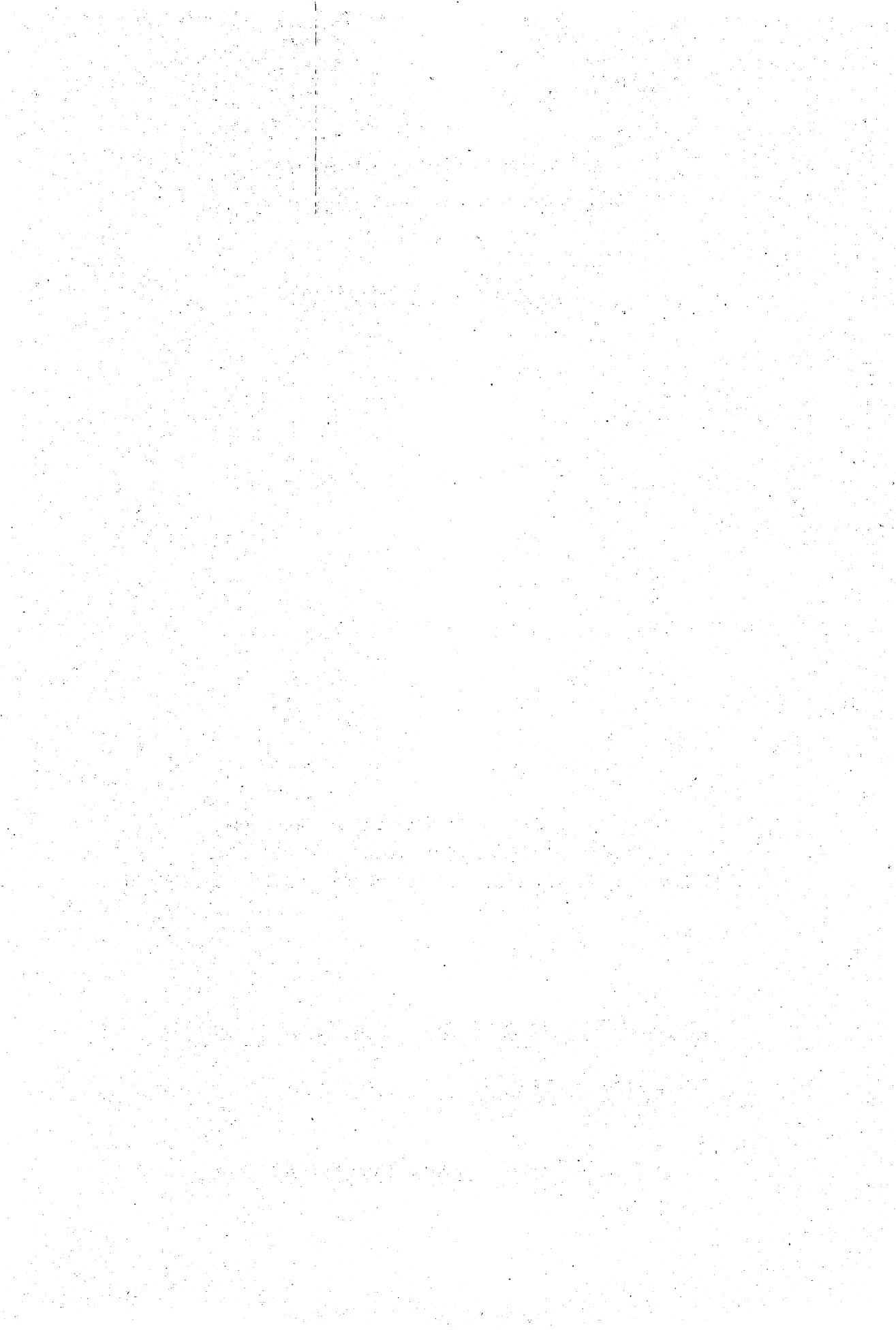
神奈川県立博物館

平成6年3月

KANAGAWA PREFECTURAL MUSEUM

Naka-ku, Yokohama, Japan

Mar., 1994



EXPLANATION OF THE PLATES 1 — 4

圖版 1 — 4

Plate 1 (× 1.0)

1.2.3.

No. 7292

Name: *Odontaspis cuspidata* Agassiz

Formation: unknown

Locality: Lee Creek Mine, S side of Pamlico river, near Aurora, Beaufort Co.,
North Carolina, USA

Age: Tertiary

4.5.

No. 10183

Name: *Odontaspis winkleri* Leriche

Formation: Barton beds

Locality: Hampshire, England, UK

Age: Eocene

6.7.

No. 10086

Name: *Squalus hastalis* (Agassiz) (Agassiz)

Formation: unknown

Locality: Brickworks at Rumst, Belgium

Age: Miocene

8.9.

No. 7324

Name: *Odontaspis* sp.

Formation: Kirkwood Fm.

Locality: Shark River, New Jersey, USA

Age: Miocene (Burdigalian)

10.11.

No. 7284

Name: *Notorhynchus* cf. *N. primigenius* (Agassiz)

Formation: unknown

Locality: Lee Creek Mine, S side of Pamlico River, near Aurora, Beaufort Co.,
North Carolina, USA

Age: Miocene

12.13.

No. 10136

Name: *Odontaspis* sp.

Formation: unknown

Locality: Khouribga, Morocco

Age: Eocene (Ypresian)

14.15.

No. 10423

Name: *Carcharocles megalodon* (Agassiz)

Formation: unknown

Locality: Steendorp, Belgium

Age: Miocene



Plate 2 (× 1.0)

1.

No. 10401

Name: *Carcharocles* cf. *C. auriculatus* (Blainville)

Formation: unknown

Locality: Port Royal, South Carolina, USA

Age: Miocene

2.4.5.6.

No. 7276

Name: *Isurus hastalis* (Agassiz)

Formation: unknown

Locality: North Carolina, USA

Age: Miocene

3.

No. 7296

Name: *Carcharocles megalodon* (Agassiz)

Formation: unknown

Locality: Port Royal, South Carolina, USA

Age: Miocene

7.8.

No. 7291

Name: *Carcharocles megalodon* (Agassiz)

Formation: unknown

Locality: North Carolina, USA

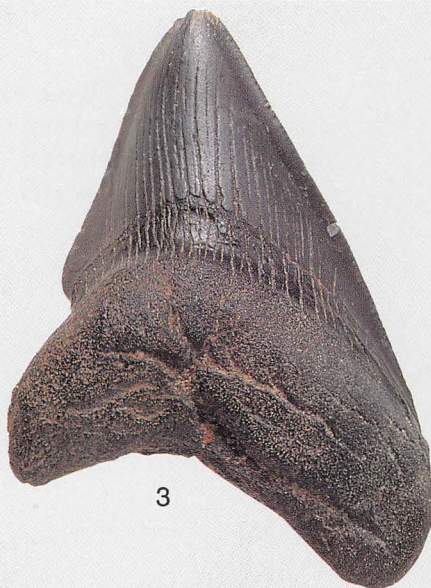
Age: Miocene



1



2



3



4



5



6



7



8

Plate 3 (× 1.0)

1.2.3.4.5.6.7.8.9.

No. 7319

Name: *Otodus obliquus* Agassiz

Formation: unknown

Locality: Morocco

Age: Tertiary



Plate 4 (× 1.0)

1.
No. 7366
Name: *Myliobatis dixonii* Agassiz
Formation: unknown
Locality: Sidi Daoui, Morocco
Age: Eocene
2.
No. 10683
Name: *Myliobatis* sp.
Formation: unknown
Locality: Sidi Daoui, Morocco
Age: Eocene (Ypresian)
3.
No. 10684
Name: *Myliobatis* sp.
Formation: unknown
Locality: Sidi-Doaui, Morocco
Age: Eocene (Ypresian)
- 4.8.
No. 10646
Name: *Raja dux* Cope
(Dermal denticles)
Formation: Pungo River Marl Fm.
Locality: T.G.S. North Carolina,
USA
Age: Middle Miocene
5.
No. 10672
Name: *Aetobatus* sp.
Formation: unknown
Locality: France
Age: Miocene
6.
No. 10644
Name: *Raja clavata* Agassiz
Formation: Red Crag
Locality: Suffolk, England, UK
Age: Pliocene
7.
No. 10699
Name: *Myliobatis* sp.
Formation: Aquia Fm.
Locality: Aquia Creek & Belvidere
Beach, Virginia, USA
Age: Early Eocene
- 9.10.
No. 10648
Name: *Raja antiqua* Agassiz
(Osseous scute)
Formation: unknown
Locality: Red Crag, Suffolk, England,
UK
Age: Eocene
11.
No. 10689
Name: *Myliobatis* sp.
Formation: Pungo River Fm.
Locality: Aurora(Lee Creek),
North Carolina, USA
Age: Middle Miocene
12.
No. 10688
Name: *Myliobatis* sp.
Formation: unknown
Locality: Kings Bay, Georgia, USA
Age: Miocene
- 13.14.
No. 7304
Name: *Myliobatis* sp.
(Stinger tail barbs)
Formation: unknown
Locality: Morocco
Age: unknown



1



2



3



7



4



5



6



8



9



10



11



12



13



14

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あ い さ つ

「ケース・コレクション」で知られるサメの歯化石コレクションは、平成元年度に本館が収集したものです。軟骨魚類化石の研究家で世界的に有名なアメリカニュージャージーに在住のGerard Ramon Case氏が30数年以上にわたってアメリカ、ヨーロッパ、アフリカなど世界各地でかけ調査採集された資料で、古生代から新生代にいたる地質時代のサメ類やエイ類など軟骨魚類化石の大量な歯化石が主体となっています。

収蔵以来これらの標本の分類整理に着手し、これまでに整理作業の終えた古生代の資料については、「Gerard Ramon Case 軟骨魚類化石標本目録 第1集 古生代軟骨魚類化石」として1992年に刊行いたしました。引続き膨大な量の中生代と新生代の標本の分類、整理、登録を行ってきましたが、この作業もほぼ終了しましたので、ここに「Gerard Ramon Case 軟骨魚類化石標本目録 第2集 中生代・新生代軟骨魚類化石」を刊行するはこびとなりました。この目録も実物資料と比較できるようできる限り数多くの図版を挿入いたしました。本目録と第1集の古生代軟骨魚類化石目録が皆様の調査研究に広く利用され、いくらかでもお役に立つことになれば幸に存じます

この目録を刊行するにあたり、コレクションを快くお譲り下さり、しかもご来館いただき、標本の整理とメッセージを頂いた Gerard Ramon Case 氏に感謝申し上げます。コレクションの収集にご尽力下さり、目録の作成にあたりご指導を賜った横浜国立大学教育学部教授長谷川善和氏、さらに、目録原稿のご校閲と玉稿を賜った国立科学博物館地学研究部長上野輝彌氏ならびに鶴見大学歯学部助教授後藤仁敏氏に対し、ここに感謝の意を表す次第です。

平成6年3月

神奈川県立博物館長
安 藤 雅 之

Foreword

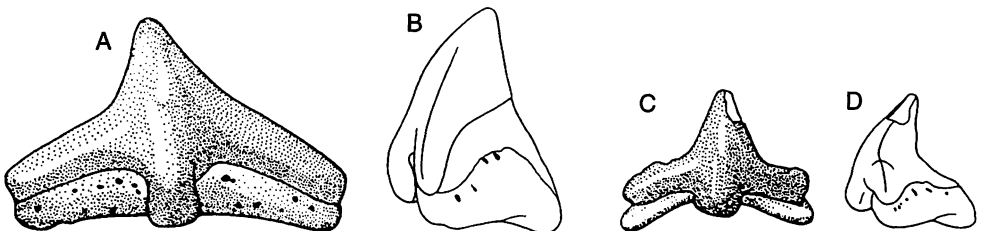
Primitive shark-like fishes first appeared in the Late Devonian age, and continued up until the Late Permian. They were replaced in the Triassic period by the "True sharks", which are still with us today in our planet's oceans, seas, bays, and estuaries.

From the Late Devonian, shark-like fishes developed two basic types of dentition; their teeth were the sharp, pointed types of the carnivores, while others had flat and rounded, crushing types for a diet of shells and shellfish. At the same time, early representatives of ghost sharks (chimaeroids), as well as skates and rays, were traveling the ancient seas, although they may not have appeared physically like our present day batoids.

Unfortunately, skeletal material of our ancient selachian ancestors were generally not preserved in the fossil record, with a few exceptions (*see Plate 5, Figures 7225 a, b, *Iniopteryx rushloui* Zangerl and Case, and Plate 17, Figures 9294 a, b, *Romerodus orodontus* Zangerl).

Mostly, primitive or early selachians are represented in the fossil record (Devonian to Permian) by isolated teeth, of the shell crushing and carnivorous types. However, in this last century, many important finds of the carbonized skeletons of several species of shark-like fishes have come to light, and are now being published in scientific journals all over the world, giving us a knowledge of what the whole fish looked like.

There were many grotesque types of shark-like fishes, which we at the present time have not discovered their carbonized skeletons, such as the edestid group, particularly, *Helicoprion bessonowi* Karpinsky. The teeth of this primitive type have been discovered, but, at present it is not possible to discern how this dentition fits into the mouth of *Helicoprion*, or for that matter, why did the teeth not fall out, as normally shark teeth do, from constant usage. In *Helicoprion*, the teeth were replaced -- but, none were lost! Thus giving us a lengthy growth ring of teeth, most of which were probably non-functional.



Cretorectolobus olsoni Case 1987

There are other mysteries of ancient sharks that remain to be solved; such as the "feathery" denticles of *Listracanthus* (*see Plate 33, Figure 9293b) and the solid "Jello-mold" denticles of *Petrodus* (*see Plate 31, Figure 7125). These so-called denticles remain a mystery - as to where on the fishes body they are positioned. Their function is no doubt to act as a protection of some vital area of the corpus; but what we do not know basically, is which type selachian they belong to; and whether *Listracanthus* and *Petrodus* (which are most always found in association in the fossil record) are even related.

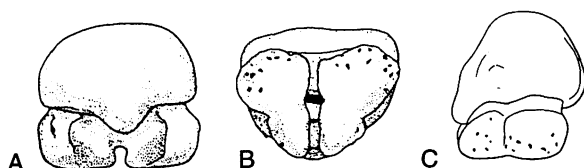
All this changed at the beginning of the Cenozoic period (Jurassic) when the "True sharks"(as well as skates, rays, sawfiches, and chimaeras) evolved. Even though few skeletons have been found fossilized during the Jurassic and Cretaceous eras, we have an idea of what many of the species looked like, from modern sharks of our present-day oceans. The Cenozoic and Mesozoic gave us many hundreds of species of selachians (sharks, skates, rays, and sawfishes), many of which are with us today.

In closing, I would like to say that it is my sincere hope that the Gerard R. Case Chondrichthyan collection of the Kanagawa Prefectural Museum, Yokohama, Japan, will be of great benefit to the many scientists who study its specimens.

I would like to thank the Kanagawa Prefectural Museum for housing this special collection, as well as for naming it in my honor, but above all, I wish to thank the Japanese people for their interest in the sciences.

Gerard R. Case

Gerard Ramon Case
September 21, 1993
Jersey City, N.J., USA



Protoplatyrhina renae Case 1987

* Kanagawa Prefectural Museum (1992) Catalogue of the Chondrichthyan specimens in Gerard Ramon Case Collection of the Kanagawa Prefectural Museum, Part 1 Paleozoic Chondrichthyes, 114 pp..

まえがき

原始的な古生代型サメ類は古生代デボン紀後期に初めて出現し、二疊紀後期まで生存していたが、中生代三疊紀になって現代型のサメ類に入れ替った。そしてこの現代型のサメ類は外洋から沿岸、汽水まで、地球上の水域に広く生息し、現在に至っている。

デボン紀後期以来、古生代型のサメ類は基本的に異なる二つのタイプの歯を持つようになった。一つは肉食性の鋭い尖った歯で、もう一つは、貝類や甲殻類のような堅い殻を砕いて食べる扁平で円みのある歯である。同じ時代に、外見上は今日のエイ類のような姿には見えないが、エイ類ばかりでなく、また初期のギンザメ類を代表する種群が中生代の海を泳ぎまわっていた。残念ながら、古生代の軟骨魚類の祖先魚種に関する骨格資料は、二三の例を除いて、化石の記録が残されていない。

原始的な軟骨魚類、すなわち初期の軟骨魚類（*図版 5、図 7225a, b のイニオプテリクス *Iniopteryx rushloui* Zangerl & Case と図版 17、図 9294a, b のロメロダス *Romerodus orodontus* Zangerl）は、ほとんどが分離した歯の化石（デボン紀から二疊紀にかけてのもの）で代表されている。それらの歯の形状は、貝を噛み砕く型や肉食型のものである。しかしながら、今世紀になって、数種のサメ型魚類の炭化した骨格に関する多くの重要な発見がなされ、世界中の科学雑誌に発表されるようになった。その結果、初期の軟骨魚類の全体像がどのようなものであったかの知識が得られるようになっている。

奇怪な姿のサメ型魚類がたくさん知られているが、とくに、カルピンスキーにより発見されたヘリコプリオン (*Helicoprion bessonowi* Karpinsky) のようなエデスタス類の炭化された骨格は、今のところ発見されていない。この原始的なサメ型魚類の歯は発見されているが、その歯列がヘリコプリオンの口にどのように合うのかは、目下のところ、認めることは不可能である。さらに言えば、サメの歯は抜け変わるのが正常だが、なぜヘリコプリオンはそうではなかったのかも不可解なことである。ヘリコプリオンでは、歯は生え変わったが、1 本たりとも失われることはなかった！。そのため歯列の成長を示す長い渦巻き型の一列がみられるのである。その歯のほとんどは機能的なものではなかったであろう。

古代サメについては、他にも、リストラカンツス (*Listracanthus*. *図版33, 図9293b) の羽根状の歯や、ペトロドゥス (*Petrodus*. *図版31, 図7125) の頑丈な“ジェリーを作るときのような歯のように、解決されていない謎がある。それらの歯が魚体のどの位置にあったのかについては、相変わらず謎のままである。それが、体の、ある重要な器官を保護するために機能していたであろうことは疑いない。しかし、これらのタイプの軟骨魚類が分類上どこに所属するのか、リストラカンツスとペトロドゥス（化石ではほとんど常に一緒に発見される）に類縁関係があるのかどうかなど、根本的なところを我々は何も知らない。

現代型のサメ類（ガンギエイ類、アカエイ類、ノコギリエイ類、ギンザメ類も同様）が出現した中生代ジュラ紀に、すべてが変わった。たとえジュラ紀と白亜紀に発見される化石が少なくても、現生のサメ類から判断して、当時のサメ類がどのような姿をしていたかを窺い知ることができる。新生代と中生代に非常に多数の種の軟骨魚類（サメ類、ガンギエイ類、アカエイ類、ノコギリエイ類）が出現し、それらの多くは現在も生存している。

おわりに、神奈川県立博物館所蔵の G. R. ケース軟体魚類化石コレクションが、多くの研究者に活用されることを切望しています。

この特別なコレクションに私の名前を付けていただき、かつ保存いただくことに対して、神奈川県立博物館に深甚な謝意を表すると同時に、自然科学に興味を持つ日本の皆さんに御礼申し上げます。



JERRY
CASE

(SELF PORTRAIT!)

ジェラード・ラモン・ケース

1993年9月21日

ジャージー市, ニュージャージー, USA

(訳: 中村 一 恵)

*神奈川県立博物館 (1992) Gerard Ramon Case 軟骨魚類化石標本目録 第1集
古生代軟骨魚類化石. 神奈川県立博物館自然部門資料目録 (6) 114 pp..

Gerard Ramon Case軟骨魚類化石標本目録

第2集 中生代・新生代軟骨魚類化石

松島義章・板橋義美・平田大二

(神奈川県立博物館)

Catalogue of the Chondrichthyan Specimens Gerard Ramon Case
Collection of the Kanagawa Prefectural Museum
Part 2 Mesozoic and Cenozoic Chondrichthyes

Yoshiaki Matsushima, Yoshimi Itabashi and Daiji Hirata

はじめに

本館が所蔵する「ケース・コレクション」は、軟骨魚類化石の研究家として世界的に有名な Gerard Ramon Case氏が、30数年以上の永年にわたってアメリカ中心に、ヨーロッパ、アフリカなど広く世界各地へでかけ現地調査をして採集し蓄積した資料で、古生代から新生代にいたる地質時代のサメ類やエイ類など軟骨魚類化石の大量な歯化石が主体となっている。このコレクションを当館が1989年にGerard Ramon Case氏より譲り受けて以来、これらの標本の分類整理に着手し、最初に整理作業の終えた古生代の資料については、1992年「Gerard Ramon Case軟骨魚類化石標本目録 第1集 古生代軟骨魚類化石」として刊行した。

引続き中生代から新生代にかけての各地質時代の膨大な量の標本について、分類、整理、登録を行ってきたが、この作業もほぼ終了したので、ここに「Gerard Ramon Case軟骨魚類化石標本目録 第2集 中生代・新生代軟骨魚類化石」を刊行することとなった。この第2集も第1集と同様に出来るだけ多数の標本を図版にして挿入し、実物資料と比較しながら利用できる目録となるよう編集に心掛けてきた。しかし、まだ完全な目録といえないが、第1集と共に広く調査研究活動に活用され、いくらかでも役に立てて頂ければ幸である。

Gerard Ramon Caseの中生代・新生代軟骨魚類化石コレクションの特徴

この目録に収録できた標本は、中生代・新生代軟骨魚類化石の854件である。標本は歯化石を中心に皮膚の小歯状突起化石や背鰭棘化石、脊椎骨化石などで、かなりの資料が1件数点と複数の標本よりなる。中でもNo.7313のオドンタスピス属 (*Odontaspis* spp.) は1288個、No.7280のカルカリヌス属 (*Carcharhinus* sp.) は846個と100個以上のものがかなりあり、1件あたりの標本点数は変化に富む。図版には保存のよい形態のはっきりした標本を用いて、ほぼ原寸大でカラー図版を4頁、白黒図版を40頁の合計44頁を図示した。

標本の産出した地質時代は、表1のように中生代三疊紀から新生代第三紀鮮新世までである。

その内容を詳しくみると、産出時代の確実なものは、中生代では三畳紀が9件（全体の割合で1%）、ジュラ紀が8件（0.9%）、白亜紀が283件（33%）、新生代第三紀では暁新世が23件（2.5%）、始新世が220件（26%）、漸新世が10件（1%）、中新世が258件（30%）、鮮新世が10件（1%）などである。その中で白亜紀が最も多く、続いて第三紀中新世と始新世である。なお、地質時代の最も新しい新生代第四紀の資料は含まれていなかった。

一方、標本の産出地を国別にまとめてみると表2のようになり、アメリカ合衆国が圧倒的に多く518件（全体の割合で61%）をはじめ、カナダの1件、キューバの2件、ヨーロッパではイギリスの68件（8%）、ドイツの30件、フランスの10件、ベルギーの76件（9%）、オランダの3件、オーストリアの3件、マルタの4件、アフリカではモロッコの123件（14%）、チュニジアの4件、南アフリカの8件、さらにニュージーランド1件など14ヶ国に及んでいる（図1）。最も多いアメリカ合衆国を除けば、モロッコ、ベルギー、イギリスの順となっている。アメリカ合衆国について州別でみるとニュージャージー、ノースカロライナ、サウスカロライナ、フロリダ、テキサス、ワイオミング、オレゴン、カリフォルニアなど東部から中部、さらに南部から西部と20州に及んでいる（図3）。その中で最多はノースカロライナの106件（アメリカ合衆国全体の割合で20%）、ニュージャージーの92件（18%）、テキサスの49件（10%）、サウスカロライナの45件（9%）、カリフォルニアの41件（8%）などが数多くの標本を産出した州である。

このような特徴を示す資料をCappetta（1987）の中生代・新生代軟骨魚類化石分類で検討してみると、p.63~86で明らかのように34科63属172種となる。これは第1集の古生代軟骨魚類化石資料と比べて3倍の多さを示す。その中から広く知られている2~3種について注目してみる。日本では、古くより天狗の爪で親しまれているサメの歯化石：カロカロクレス・メガロドン（*Carcharocles megalodon*：最近まではカルカロドン・メガロドン *Carcharodon megalodon* で分類されていた）は、アメリカ合衆国ノースカロライナ、サウスカロライナ、ジョージア、フロリダ、カリフォルニア州の13か所とベルギー2か所の合計15か所の資料からなり、大西洋を挟んでアメリカとヨーロッパのものが収集されている。一方、人食いサメで有名なホホジロサメ（カルカロドン・カルカリアス *Carcharodon carcharias*）は、アメリカ合衆国ノースカロライナ、サウスカロライナ、ジョージア、フロリダ、カリフォルニア州など9か所のものがみられ、これらはいずれもカロカロクレス・メガロドンと同じ中新世のもので、同時期に生息していたことを示す。日本でカロカロクレス・メガロドンと共産するアオザメ属のイスルス・ハスタリス（*Isurus hastalis*）は、アメリカ合衆国ニュージャージー、メリーランド、ノースカロライナ、サウスカロライナ、ジョージア、フロリダ、カリフォルニア州の12か所、ベルギー、オランダ、イングランドの7か所の資料が得られている。このように本種もカロカロクレス・メガロドンと同様に大西洋を挟んでアメリカとヨーロッパのものが広く揃っている。

このようにかなりの種がアメリカとヨーロッパ、さらにはアフリカまで広域にわたって収集されており、今後、日本から産出するいろいろの種と比較研究をおこなう上で、多くの資料が揃っている本コレクションは重要なものといえよう。

表1. Gerard Ramon Case軟骨魚類化石コレクションにみられる中生代・新生代軟骨魚類化石
標本の地質時代別リスト

地 質 時 代		標 本 番 号 (KPMG No.)	
第三紀 Tertiary	鮮新世 Pliocene	7282, 10180, 10181, 10182, 10223, 10308, 10421, 10570, 10619, 10644	7292, 7293, 7294, 7295, 7319, 10283
	中新世 Miocene	(10)	(6)
		7276, 7277, 7278, 7279, 7280, 7281, 7283, 7284, 7285, 7286, 7287, 7288, 7289, 7290, 7291, 7296, 7297, 7320, 7321, 7322, 7323, 7324, 7325, 7326, 7327, 7328, 7331, 7332, 7334, 7339, 7349, 7350, 7351, 7352, 7353, 7354, 7355, 7356, 7357, 7358, 7359, 7360, 7362, 7363, 7364, 10046, 10048, 10049, 10054, 10055, 10056, 10063, 10064, 10083, 10086, 10088, 10102, 10103, 10104, 10133, 10163, 10164, 10165, 10166, 10167, 10168, 10169, 10170, 10171, 10172, 10173, 10174, 10175, 10176, 10177, 10178, 10179, 10189, 10193, 10194, 10195, 10231, 10245, 10270, 10272, 10273, 10276, 10277, 10278, 10279, 10280, 10281, 10285, 10287, 10288, 10289, 10295, 10296, 10297, 10298, 10299, 10300, 10301, 10302, 10303, 10304, 10305, 10306, 10307, 10309, 10310, 10311, 10312, 10313, 10315, 10328, 10348, 10401, 10402, 10403, 10404, 10405, 10406, 10407, 10413, 10414, 10415, 10416, 10417, 10418, 10419, 10420, 10422, 10423, 10425, 10435, 10518, 10519, 10520, 10522, 10523, 10524, 10526, 10527, 10528, 10529, 10530, 10531, 10532, 10533, 10541, 10542, 10543, 10544, 10545, 10546, 10547, 10555, 10556, 10557, 10558, 10559, 10560, 10561, 10562, 10563, 10564, 10565, 10566, 10567, 10568, 10569, 10571, 10572, 10573, 10574, 10575, 10576, 10577, 10579, 10580, 10581, 10582, 10583, 10584, 10586, 10587, 10591, 10592, 10593, 10594, 10595, 10596, 10597, 10598, 10606, 10607, 10608, 10609, 10610, 10611, 10612, 10613, 10614, 10615, 10616, 10617, 10618, 10620, 10621, 10623, 10624, 10625, 10627, 10628, 10630, 10631, 10633, 10634, 10635, 10636, 10640, 10642, 10645, 10646, 10647, 10654, 10660, 10661, 10662, 10663, 10664, 10665, 10666, 10670, 10672, 10680, 10688, 10689, 10691, 10711, 10712, 10713, 10714, 10715, 10716, 10717, 10718, 10720, 10721, 10724, 10737, 10740, 10741, 10753, 10754, 10755, 10756	(258)
	漸新世 Oligocene	10047, 10160, 10230, 10238, 10239, 10240, 10241, 10243, 10709, 10738	(10)
	始新世 Eocene	7308, 7309, 7311, 7312, 7313, 7318, 7329, 7330, 7333, 7341, 7344, 7365, 7366, 7369, 7370, 7371, 7372, 10045, 10050, 10052, 10062, 10071, 10072, 10074, 10075, 10076, 10077, 10078, 10079, 10080, 10081, 10082, 10085, 10096, 10097, 10098, 10099, 10100, 10101, 10129, 10130, 10131, 10132, 10134, 10135, 10136, 10137, 10138, 10139, 10140, 10141, 10142, 10143, 10144, 10145, 10146, 10147, 10149, 10150, 10151, 10152, 10153, 10154, 10155, 10156, 10157, 10159, 10183, 10190, 10191, 10192, 10197, 10198, 10199, 10200, 10201, 10202, 10203, 10204, 10205, 10206, 10207, 10208, 10209, 10210, 10211, 10212, 10213, 10214, 10215, 10216, 10217, 10218, 10222, 10224, 10225, 10226, 10227, 10228, 10229, 10232, 10233, 10234, 10235, 10236, 10237, 10242, 10254, 10255, 10274, 10282, 10284, 10290, 10291, 10292, 10314, 10316, 10342, 10343, 10344, 10346, 10347, 10383, 10384, 10385, 10386, 10388, 10389, 10390, 10391, 10394, 10396, 10398, 10408, 10409, 10410, 10411, 10424, 10426, 10427, 10428, 10429, 10430, 10431, 10432, 10433, 10434, 10508, 10509, 10510, 10512, 10513, 10514, 10515, 10516, 10517, 10521, 10534, 10535, 10536, 10537, 10538, 10539, 10540, 10548, 10549, 10551, 10552, 10553, 10578, 10585, 10588, 10589, 10590, 10599, 10600, 10601, 10602, 10603, 10626, 10629, 10648, 10656, 10657, 10658, 10659, 10671, 10673, 10674, 10682, 10683, 10684, 10685, 10686, 10690, 10692, 10693, 10694, 10695, 10696, 10697, 10698, 10699, 10701, 10702, 10703, 10704, 10705, 10706, 10708, 10719, 10722, 10723, 10725, 10726, 10742, 10743, 10750, 10751, 10752	(220)
	晩新世 Palaeocene	7367, 7368, 7373, 7374, 7375, 7376, 10051, 10095, 10125, 10127, 10128, 10158, 10219, 10220, 10221, 10382, 10395, 10507, 10511, 10668, 10707, 10745, 10747	(23) [527]
白亜紀 Cretaceous	上部	7299, 7303, 7307, 7310, 7316, 7335, 7336, 7337, 7338, 7340, 7342, 7343, 7345, 7346, 10006, 10019, 10020, 10021, 10022, 10023, 10024, 10025, 10026, 10027, 10028, 10029, 10030, 10031, 10032, 10033, 10034, 10035, 10038, 10039, 10040, 10041, 10042, 10043, 10044, 10053, 10057, 10058, 10059, 10060, 10061, 10065, 10066, 10067, 10068, 10069, 10070, 10073, 10087, 10089, 10091, 10092, 10093, 10094, 10106, 10107, 10108, 10109, 10110, 10111, 10112, 10113, 10114, 10115, 10116, 10118, 10119, 10120, 10121, 10122, 10123, 10184, 10185, 10186, 10187, 10188, 10244, 10246, 10247, 10248, 10249, 10250, 10251, 10252, 10253, 10256, 10257, 10258, 10259, 10260, 10261, 10262, 10263, 10264, 10265, 10267, 10268, 10269, 10286, 10317, 10318, 10319, 10320, 10321, 10322, 10323, 10324, 10325, 10326, 10327, 10329, 10331, 10332, 10333, 10334, 10337, 10338, 10339, 10340, 10341, 10345, 10349, 10350, 10351, 10352, 10353, 10354, 10355, 10356, 10357, 10358, 10359, 10360, 10361, 10362, 10363, 10364, 10365, 10366, 10367, 10368, 10370, 10371, 10372, 10373, 10374, 10375, 10376, 10377, 10378, 10379, 10387, 10392, 10393, 10397, 10399, 10436, 10437, 10438, 10439, 10440, 10441, 10442, 10443, 10444, 10445, 10446, 10448, 10449, 10450, 10451, 10452, 10453, 10454, 10455, 10456, 10457, 10458, 10459, 10460, 10461, 10462, 10463, 10464, 10465, 10466, 10467, 10468, 10469, 10470, 10471, 10472, 10473, 10474, 10475, 10476, 10477, 10478, 10479, 10480, 10481, 10482, 10483, 10484, 10485, 10486, 10487, 10488, 10489, 10490, 10491, 10492, 10493, 10494, 10495, 10496, 10497, 10499, 10500, 10501, 10502, 10503, 10504, 10505, 10506, 10637, 10638, 10639, 10641, 10649, 10650, 10651, 10652, 10653, 10655, 10667, 10675, 10676, 10677, 10678, 10679, 10681, 10727, 10728, 10729, 10730, 10731, 10732, 10733, 10734, 10735, 10736, 10739, 10744, 10746, 10748, 10749	(261)
	下部	10117, 10266, 10369, 10400, 10669	(5) [283]
ジュラ紀 Jurassic		10003, 10004, 10012, 10013, 10015, 10016, 10017, 10018	(8) [8]
三疊紀 Triassic	上部	10000, 10001, 10002	(3) 10007, 10008, 10009, 10010, 10011, 10014 (6)
	下部		[9]
時代不詳		7304, 7305, 10622, 10687	(4) [4]

(): 標本件数, [] : 小計

Pliocene - Pleistocene 10105
Miocene/Pliocene 10161, 10162, 10275, 10293, 10294, 10412, 10525, 10554, 10604, 10605, 10632, 10643, 10710
Upper Eocene - Lower Oligocene 10148, 10550, 10700
Palaeocene/Eocene 10128
Cretaceous - Miocene ? 7361, 10271
Upper Cretaceous & Tertiary 7306, 10084, 10196

表2. Gerard Ramon Case軟骨魚類化石コレクションにみられる中生代・新生代軟骨魚類化石
標本の産出地別リスト

国 名 (州名)		標 本 番 号 (KPMG No.)
ア メ リ カ 合 衆 国	ノース カラライ州 (North Carolina)	7276, 7277, 7278, 7279, 7280, 7281, 7282, 7283, 7284, 7285, 7286, 7287, 7288, 7289, 7290, 7291, 7292, 7293 7294, 7295, 7335, 7336, 7337, 7338, 7339, 7340, 7341, 10049, 10059, 10092, 10168, 10179, 10189, 10211, 10213, 10216 10222, 10223, 10276, 10280, 10283, 10284, 10290, 10307, 10309, 10310, 10313, 10329, 10337, 10338, 10345, 10387, 10388, 10397 10403, 10420, 10422, 10429, 10435, 10446, 10466, 10499, 10500, 10521, 10528, 10531, 10559, 10568, 10571, 10572, 10573, 10574 10575, 10576, 10577, 10588, 10590, 10597, 10598, 10600, 10609, 10616, 10617, 10618, 10620, 10621, 10622, 10623, 10624, 10625 10634, 10646, 10647, 10662, 10675, 10679, 10689, 10698, 10712, 10718, 10720, 10721, 10728, 10733, 10734, 10737 (106)
	サウス カラライ州 (South Carolina)	7296, 7361, 10083, 10155, 10166, 10167, 10175, 10190, 10270, 10271, 10281, 10292, 10296, 10297, 10303, 10396, 10401, 10410 10416, 10417, 10418, 10519, 10527, 10532, 10541, 10546, 10553, 10557, 10558, 10564, 10578, 10586, 10587, 10592, 10593, 10603 10608, 10614, 10626, 10636, 10666, 10753, 10754, 10755, 10756 (45)
U S A	ニュージャージー州 (New Jersey)	7299, 7300, 7301, 7320, 7321, 7322, 7323, 7324, 7325, 7326, 7327, 7328, 7329, 7330, 7342, 7343, 7344, 7345 7346, 7360, 10006, 10048, 10057, 10067, 10087, 10106, 10111, 10133, 10134, 10139, 10157, 10171, 10187, 10191, 10192, 10232 10247, 10256, 10258, 10265, 10267, 10269, 10300, 10314, 10317, 10319, 10320, 10325, 10327, 10349, 10360, 10375, 10390, 10398 10408, 10414, 10424, 10426, 10427, 10431, 10434, 10438, 10444, 10455, 10456, 10457, 10458, 10459, 10460, 10461, 10467, 10468 10476, 10477, 10504, 10506, 10529, 10548, 10562, 10613, 10651, 10653, 10663, 10676, 10677, 10681, 10694, 10713, 10723, 10727 10740, 10745 (92)
	カリフォルニア州 (California)	7352, 7354, 7356, 10054, 10055, 10056, 10064, 10088, 10169, 10170, 10172, 10176, 10180, 10272, 10277, 10289, 10298, 10299 10301, 10304, 10407, 10415, 10421, 10524, 10530, 10542, 10545, 10560, 10561, 10563, 10565, 10570, 10596, 10610, 10611, 10612 10615, 10640, 10691, 10714, 10715 (41)
U S A	デラウェア州(Delaware)	7297, 10186, 10245, 10246, 10248, 10249, 10251, 10268, 10315, 10324, 10328, 10368, 10392, 10487, 10503, 10652, 10654, 10655 10678, 10680, 10746 (21)
	テキサス州(Texas)	10019, 10023, 10024, 10027, 10030, 10032, 10033, 10038, 10039, 10042, 10093, 10113, 10114, 10116, 10117, 10118, 10122, 10217 10218, 10250, 10259, 10261, 10264, 10322, 10323, 10334, 10340, 10357, 10361, 10363, 10366, 10369, 10374, 10400, 10436, 10451 10462, 10463, 10478, 10479, 10481, 10484, 10485, 10486, 10488, 10493, 10505, 10649, 10650 (49)
U S A	バージニア州(Virginia)	10126, 10138, 10199, 10200, 10224, 10432, 10522, 10547, 10591, 10594, 10699, 10725, 10752 (13)
	ワイオミング州(Wyoming)	10029, 10036, 10037, 10041, 10044, 10069, 10091, 10119, 10121, 10124, 10260, 10326, 10362, 10371, 10373, 10380, 10381, 10480 10489, 10492, 10498, 10641, 10669, 10757 (24)
U S A	ジョージア州(Georgia)	10102, 10140, 10144, 10148, 10153, 10161, 10162, 10195, 10273, 10275, 10288, 10293, 10294, 10312, 10406, 10412, 10419, 10523 10525, 10544, 10549, 10550, 10551, 10554, 10584, 10595, 10599, 10602, 10604, 10605, 10631, 10632, 10688, 10700, 10704, 10710 10742 (37)
	フロリダ州(Florida)	10163, 10177, 10193, 10194, 10278, 10305, 10311, 10405, 10411, 10425, 10518, 10526, 10533, 10555, 10566, 10579, 10580, 10581 10582, 19583, 10627, 10628, 10630, 10633, 10635, 10642, 10645, 10660, 10664, 10665, 10711, 10716, 10724, 10741 (34)
U S A	マリランド州(Maryland)	10058, 10073, 10142, 10165, 10215, 10295, 10347, 10386, 10430, 10556, 10606, 10607, 10686, 10696 (14)
	ノース ダコタ州(N. Dakota)	10095 (1)
U S A	サウス ダコタ州(S. Dakota)	10035, 10115, 10123, 10263, 10365, 10379, 10497 (7)
	モンタナ州(Montana)	10511 (1)
U S A	カンザス州(Kansas)	10005, 10043, 10252, 10266, 10399, 10450, 10454, 10464, 10490 (9)
	ミシシッピ州 (Mississippi)	10077, 10141, 10262, 10364, 10482, 10516, 10534, 10539, 10695, 10751 (10)
U S A	アラバマ州(Alabama)	10082, 10158, 10707 (3)
	コロラド州(Colorado)	10028, 10031, 10257, 10471, 10483 (5)
U S A	オレゴン州(Oregon)	10143, 10569 (2)
	アーカンソー州(Arkansas)	10145, 10147, 10585, 10697 (4)
U S A	カナダ Canada	10639 (1)
	キューバ Cuba	10164, 10413 (2)
U S A	ニュージーランド New Zealand	10197 (1)
	イギリス United Kingdom	7314, 7315, 7357, 7358, 7359, 10002, 10004, 10012, 10013, 10014, 10016, 10017, 10018, 10020, 10021, 10034, 10040, 10078 10079, 10080, 10081, 10090, 10098, 10099, 10112, 10149, 10154, 10156, 10183, 10202, 10203, 10204, 10205, 10206, 10207, 10219 10220, 10221, 10229, 10242, 10274, 10286, 10291, 10321, 10332, 10333, 10335, 10336, 10367, 10370, 10428, 10452, 10465, 10510 10552, 10644, 10648, 10667, 10671, 10673, 10674, 10685, 10687, 10701, 10705, 10706, 10726, 10739 (68)
U S A	ドイツ Germany	7355, 7364, 10000, 10001, 10003, 10007, 10008, 10009, 10011, 10015, 10022, 10025, 10047, 10089, 10103, 10120, 10188, 10238 10239, 10240, 10241, 10243, 10372, 10393, 10445, 10453, 10491, 10501, 10709, 10738 (30)
	フランス France	7363, 10010, 10026, 10061, 10201, 10253, 10341, 10502, 10543, 10672 (10)
U S A	ベルギー Belgium	7331, 7332, 7333, 7334, 7351, 7362, 10050, 10052, 10053, 10060, 10063, 10065, 10066, 10068, 10074, 10085, 10086, 10094 10109, 10110, 10125, 10150, 10151, 10152, 10160, 10174, 10181, 10182, 10184, 10185, 10208, 10209, 10214, 10225, 10226, 10227 10228, 10230, 10231, 10234, 10235, 10236, 10237, 10244, 10282, 10287, 10308, 10318, 10348, 10389, 10402, 10423, 10440, 10441 10442, 10443, 10474, 10475, 10513, 10517, 10540, 10589, 10601, 10619, 10629, 10637, 10638, 10643, 10661, 10670, 10682, 10690 10702, 10703, 10743, 10744 (76)
	オランダ Netherlands	10173, 10212, 10302 (3)
U S A	オーストリア Austria	10104, 10146, 10409 (3)
	マルタ Malta	7353, 10285, 10404, 10520 (4)
U S A	アフリカ Africa	7350, 10129 (2)
	南アフリカ S. Africa	7349, 10046, 10105, 10178, 10279, 10306, 10567, 10717 (8)
U S A	チュニジア Tunisia	10130, 10383, 10535, 10692 (4)
	モロッコ Morocco	7303, 7304, 7305, 7306, 7307, 7308, 7309, 7310, 7311, 7312, 7313, 7316, 7318, 7319, 7365, 7366, 7367, 7368 7369, 7370, 7371, 7372, 7373, 7374, 7375, 7376, 10045, 10051, 10062, 10070, 10071, 10072, 10075, 10076, 10084, 10096 10097, 10100, 10101, 10107, 10108, 10127, 10128, 10131, 10132, 10135, 10136, 10137, 10159, 10196, 10198, 10233, 10254, 10255 10316, 10330, 10331, 10339, 10342, 10343, 10344, 10346, 10350, 10351, 10352, 10353, 10354, 10355, 10356, 10358, 10359, 10376 10377, 10378, 10382, 10384, 10385, 10391, 10394, 10395, 10433, 10437, 10439, 10447, 10448, 10449, 10469, 10470, 10472, 10473 10494, 10495, 10496, 10507, 10508, 10509, 10512, 10514, 10515, 10536, 10537, 10538, 10656, 10657, 10658, 10659, 10668, 10683 10684, 10693, 10708, 10719, 10722, 10729, 10730, 10731, 10732, 10735, 10736, 10747, 10748, 10749, 10750 (123)
U S A	産地不明	10210 (1)

(): 標本件数



図1. Gerard Ramon Case軟骨魚類化石コレクションにおける中生代・新生代軟骨魚類化石標本のヨーロッパ・アフリカの産出地（数字は国別標本件数）

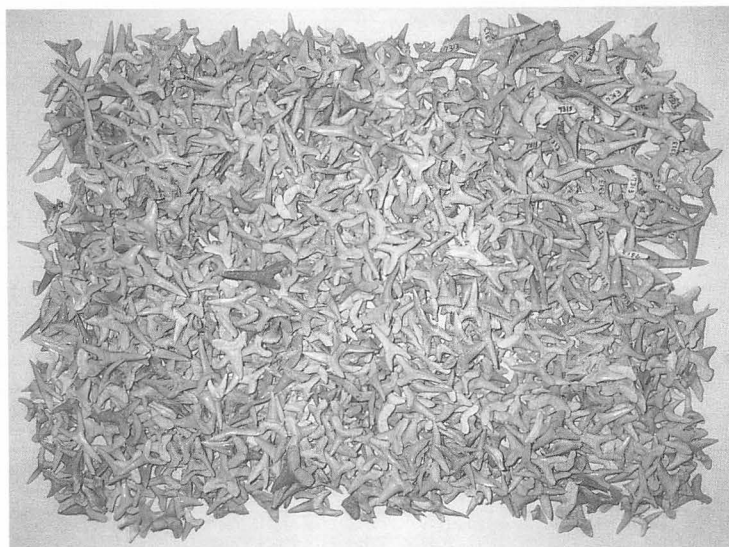


図2. 最も多い1,288個からなるNo.7313 オドンタスピス属の歯化石標本



図3. Gerard Ramon Case軟骨魚類化石コレクションにおける中生代・新生代軟骨魚類化石標本のアメリカ合衆国内及び周辺の産出地（数字は国、州別標本件数）

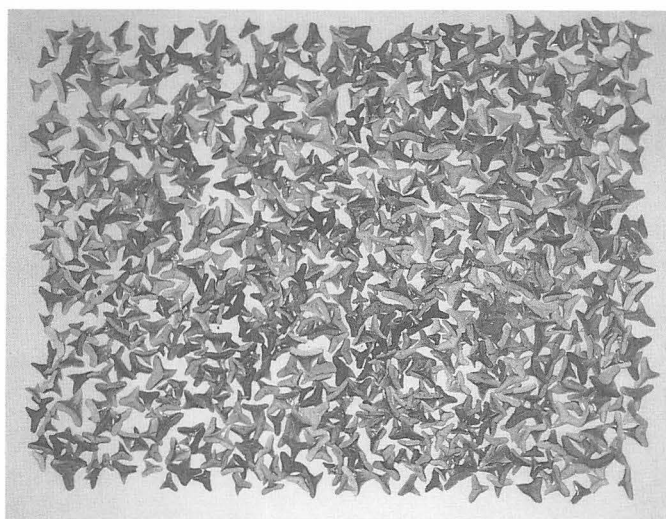


図4. 2番目に多い846個のNo.7280 メジロザメ属の歯化石標本

本目録について

1. 本目録はGerard Ramon Case氏がアメリカ合衆国国内を中心にヨーロッパやアフリカなどの現地にでかけ、調査収集した中生代・新生代軟骨魚類化石を収録したものである。
2. 目録の項目は標本登録番号、学名、産出層、産出地点、地質時代、図示された図版の番号の6項目で、この順番に配列してある。
3. 図示された図版番号は、本目録、Case (1973)、Case (1982) の順に配列してある。
4. 産出した地質時代については、表1にまとめた。
5. 産出地点のうちヨーロッパとアフリカについては国名と標本件数を図1に、アメリカ合衆国については州名と標本件数を図2に示した。

謝 辞

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中生代・新生代軟骨魚類化石標本目錄

Catalogue of Mesozoic and Cenozoic Chondrichthyes

No. 7276
Name: *Isurus hastalis* (Agassiz)
Formation: unknown
Locality: North Carolina, USA
Age: Miocene
Illustrate: Plate 2(2,4,5,6),22(7276a~r),35(7276a~h)

No. 7277
Name: *Hemipristis serra* Agassiz
Formation: unknown
Locality: Lee Creek Mine,S side of Pamlico River
near Aurora,Beaufort Co.,
North Carolina, USA
Age: Miocene
Illustrate: Plate 28(7277a~r),40(7277a~d)

No. 7278
Name: *Galeocerdo cuvieri* (Peron & Leseur)
Formation: unknown
Locality: Lee Creek Mine,S side of Pamlico River
near Aurora,Beaufort Co.,
North Carolina, USA
Age: Miocene
Illustrate: Plate 25(7278a~t)

No. 7279
Name: *Myliobatis* sp. (Sting Ray Barbs)
Formation: unknown
Locality: Lee Creek Mine,S side of Pamlico River
near Aurora,Beaufort Co.,
North Carolina, USA
Age: Miocene
Illustrate: Plate 29(7279a~n)

No. 7280
Name: *Carcharhinus* sp.
Formation: unknown
Locality: North Carolina, USA
Age: Miocene
Illustrate: Plate 40(7280a~d)

No. 7281
Name: *Pterolamiops longimanus* (Poey)
Formation: unknown
Locality: Lee Creek Mine,S side of Pamlico River
near Aurora,Beaufort Co.,
North Carolina, USA
Age: Miocene
Illustrate: Plate 25(7281a~j)

No. 7282
Name: *Carcharodon carcharias* (Linnaeus)
Formation: unknown
Locality: Lee Creek Mine,S side of Pamlico River
near Aurora,Beaufort Co.,
North Carolina, USA
Age: Pliocene
Illustrate: Plate 23(7282a~k)

No. 7283
Name: *Notorhynchus* sp.
Formation: unknown
Locality: Lee Creek Mine,S side of Pamlico River
near Aurora,Beaufort Co.,
North Carolina, USA
Age: Miocene
Illustrate: Plate 7(7283a~k)

No. 7284
Name: *Notorhynchus* cf. *N.primigenius* (Agassiz)
Formation: unknown
Locality: Lee Creek Mine,S side of Pamlico River
near Aurora,Beaufort Co.,
North Carolina, USA
Age: Miocene
Illustrate: Plate 1(10,11),7(7284a~k)

No. 7285
Name: *Aetobatus* sp.
Formation: unknown
Locality: North Carolina, USA
Age: Miocene
Illustrate: Plate 42(7285a,b)

No. 7286
Name: *Parotodus benedeni* (Le Hon)
Formation: unknown
Locality: Lee Creek Mine,S side of Pamlico River
near Aurora,Beaufort Co.,
North Carolina, USA
Age: Miocene ?
Illustrate: Plate 28(7286a~c)

No. 7287
Name: *Alopias* cf. *A.superciliosus* (Lowe)
Formation: unknown
Locality: Lee Creek Mine,S side of Pamlico River
near Aurora,Beaufort Co.,
North Carolina, USA
Age: Miocene
Illustrate:

No. 7288
Name: *Galeorhinus* sp.
Formation: unknown
Locality: Lee Creek Mine,S side of Pamlico River
near Aurora,Beaufort Co.,
North Carolina, USA
Age: Miocene
Illustrate:

No. 7289
Name: *Odontaspis* sp.
Formation: unknown
Locality: North Carolina, USA
Age: Miocene
Illustrate: Plate 10(7289a~t)

No. 7290
 Name: *Myliobatis* sp. (Sting Ray Barbs)
 Formation: Pungo River Marl
 Locality: Lee Creek (T.G.S.), Aurora, North Carolina, USA
 Age: Middle Miocene
 Illustrate: Plate 43(7290a,b)

No. 7291
 Name: *Carcharocles megalodon* (Agassiz)
 Formation: unknown
 Locality: North Carolina, USA
 Age: Miocene
 Illustrate: Plate 2(7,8),17(7291a-e)

No. 7292
 Name: *Odontaspis cuspidata* Agassiz
 Formation: unknown
 Locality: Lee Creek Mine, S side of Pamlico river, near Aurora, Beaufort Co., North Carolina, USA
 Age: Tertiary
 Illustrate: Plate 1(1,2,3),8(7292a-q),26(7292a-t)

No. 7293
 Name: *Plinthiscus stenodon* Cope
 Formation: unknown
 Locality: Lee Creek Mine, S side of Pamlico river, near Aurora, Beaufort Co., North Carolina, USA
 Age: Tertiary
 Illustrate: Plate 44(7293a-e)

No. 7294
 Name: *Plinthiscus stenodon* Cope
 Formation: unknown
 Locality: Lee Creek Mine, S side of Pamlico river, near Aurora, Beaufort Co., North Carolina, USA
 Age: Tertiary
 Illustrate: Plate 44(7294a-f)

No. 7295
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Lee Creek Mine, S side of Pamlico river, near Aurora, Beaufort Co., N. Carolina, USA
 Age: Tertiary
 Illustrate: Plate 10(7295a-t)

No. 7296
 Name: *Carcharocles megalodon* (Agassiz)
 Formation: unknown
 Locality: Port Royal, South Carolina, USA
 Age: Miocene
 Illustrate: Plate 2(3),18(7296a-d)

No. 7297
 Name: *Squalicorax kaupi* (Agassiz)
 Formation: unknown
 Locality: Spoil Banks, C & D, Canal, St. Georges, Delaware, USA
 Age: Miocene
 Illustrate: Plate 39(7297a,b)

No. 7299
 Name: *Ischyodus bifurcatus* Case
 Formation: Navesink Fm.
 Locality: Holmdel, New Jersey, USA
 Age: Upper Cretaceous
 Illustrate:

No. 7300
 Name: *Edaphodon* sp.
 Formation: Navesink Fm.
 Locality: Emil Novak Farm, Lumberton, New Jersey, USA
 Age: Cretaceous
 Illustrate: Case 1973: p.29, fig.104

No. 7301
 Name: *Ischyodus bifurcatus* Case
 Formation: Navesink Fm.
 Locality: Big Brook Marlboro, New Jersey, USA
 Age: Cretaceous
 Illustrate:

No. 7303
 Name: *Cretolamna biauriculata maroccana* (Arambourg)
 Formation: unknown
 Locality: Beni Idir, Morocco
 Age: Cretaceous (Maastrichtian)
 Illustrate: Plate 38(7303a,b)

No. 7304
 Name: *Myliobatis* sp. <Stinger tail barbs>
 Formation: unknown
 Locality: Morocco
 Age: unknown
 Illustrate: Plate 4(13,14),43(7304a,b)

No. 7305
 Name: *Odontaspis* spp.
 Formation: unknown
 Locality: Morocco
 Age: unknown
 Illustrate:

No. 7306
 Name: *Carcharhinus* sp.
 Formation: unknown
 Locality: Morocco
 Age: Upper Cretaceous and Tertiary
 Illustrate:

No. 7307
 Name: *Cretolamna appendiculata* (Agassiz)
 Formation: unknown
 Locality: Morocco
 Age: Upper Cretaceous (Maastrichtian)
 Illustrate: Plate 37(7307a,b)

No. 7308
 Name: *Aetobatus* sp.
 Formation: unknown
 Locality: Morocco
 Age: Eocene (Ypresian)
 Illustrate: Plate 42(7308a-c)

- No. 7309
Name: *Isurus* sp.
Formation: unknown
Locality: Khouribga, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 37
- No. 7310
Name: *Sclerorhynchus* sp.
Formation: unknown
Locality: R.R.Cutt Near Beni Idir, Morocco
Age: Upper Cretaceous (Maastrichtian)
Illustrate: Plate 42(7310a,b)
- No. 7311
Name: *Galeorhinus* sp.
Formation: unknown
Locality: Oued Zem, Morocco
Age: Palaeocene (Thanetian)
Illustrate:
- No. 7312
Name: *Myliobatis* sp.
Formation: unknown
Locality: Oued Zem, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 43(7312a,b)
- No. 7313
Name: *Odontaspis* spp.
Formation: unknown
Locality: Khouribga, Morocco
Age: Eocene (Ypresian)
Illustrate:
- No. 7314
Name: *Asteracanthus ornatissimus* Agassiz
Formation: Phos Bed.
Locality: Potton, Bedfordshire, England, UK
Age: Cretaceous (Neocomian)
Illustrate: Plate 5
- No. 7315
Name: *Ptychodus decurrens* Agassiz
Formation: Chalk
Locality: Kent, England, UK
Age: Cretaceous
Illustrate: Plate 5
- No. 7316
Name: *Rhombodus binkhorsti* Dames
Formation: unknown
Locality: R.R.Cutt, Beni Idir, Morocco
Age: Upper Cretaceous (Maastrichtian)
Illustrate: Plate 44(7316a-d)
- No. 7318
Name: *Anoxypristis mucrodens* White
Formation: unknown
Locality: Oued Zen, Morocco
Age: Early Eocene (Ypresian)
Illustrate: Plate 42
- No. 7319
Name: *Otodus obliquus* Agassiz
Formation: unknown
Locality: Morocco
Age: Tertiary
Illustrate: Plate 3(1-9),20(7319a-h),21(7319a-p)
- No. 7320
Name: *Carcharocles* sp.
Formation: Kirkwood Fm.
Locality: Shark River, New Jersey, USA
Age: Miocene (Burdigalian)
Illustrate: Plate 39
- No. 7321
Name: *Isurus hastalis* (Agassiz)
Formation: Kirkwood Fm.
Locality: Shark River, New Jersey, USA
Age: Miocene
Illustrate: Plate 35(7321a-e)
- No. 7322
Name: *Odontaspis* sp.
Formation: Kirkwood Fm.
Locality: New Jersey, USA
Age: Miocene
Illustrate: Plate 10(7322a-r)
- No. 7323
Name: *Carcharhinus* sp.
Formation: Kirkwood Fm.
Locality: New Jersey, USA
Age: Miocene
Illustrate: Plate 40(7323a-e)
- No. 7324
Name: *Odontaspis* sp.
Formation: Kirkwood Fm.
Locality: Shark River, New Jersey, USA
Age: Miocene (Burdigalian)
Illustrate: Plate 1(8,9),11(7324a-q)
- No. 7325
Name: *Galeocerdo aduncas* Agassiz
Formation: unknown
Locality: New Jersey, USA
Age: Miocene
Illustrate: Plate 41(7325a-c)
- No. 7326
Name: *Galeocerdo contortus* (Gibbes)
Formation: unknown
Locality: New Jersey, USA
Age: Miocene
Illustrate: Plate 27(7326a-x)
- No. 7327
Name: *Hemipristis serra* Agassiz
Formation: Shark River Kirkwood Fm.
Locality: Shark River, New Jersey, USA
Age: Miocene
Illustrate: Plate 40(7327a,b)

- No. 7328
Name: *Myliobatis* sp.
Formation: Kirkwood Fm.
Locality: Shark River, Neptune, New Jersey, USA
Age: Early Miocene
Illustrate: Plate 43(7328a~c)
- No. 7329
Name: *Odontaspis* sp.
Formation: unknown
Locality: New Jersey, USA
Age: Eocene
Illustrate: Plate 11(7329a~f)
- No. 7330
Name: *Odontaspis* sp.
Formation: unknown
Locality: New Jersey, USA
Age: Eocene
Illustrate: Plate 11(7330a~g)
- No. 7331
Name: *Isurus* sp.
Formation: unknown
Locality: Rumst, Belgium
Age: Miocene
Illustrate:
- No. 7332
Name: *Carcharocles megalodon* (Agassiz)
Formation: Claypit of Brickworks "Rupel-Nete", Antwerpiaan Anb, Edegem Sands.
Locality: Rumst, prov., Antwerpen, Belgium
Age: Miocene
Illustrate: Plate 39
- No. 7333
Name: *Carcharocles auriculatus* (Blainville)
Formation: Lédien
Locality: Balegem, Belgium
Age: Eocene
Illustrate: Plate 39
- No. 7334
Name: *Isurus hastalis* (Agassiz)
Formation: unknown
Locality: Brickworks at Rumst, Belgium
Age: Miocene
Illustrate:
- No. 7335
Name: *Scapanorhynchus texanus* (Roemer)
Formation: Peedie Fm.
Locality: Rosehill, North Carolina, USA
Age: Cretaceous (Maastrichtian)
Illustrate: Plate 24(7335a~o)
- No. 7336
Name: *Cretolamna appendiculata* (Agassiz)
Formation: Peedie Fm.
Locality: Rosehill, North Carolina, USA
Age: Cretaceous (Maastrichtian)
Illustrate: Plate 37(7336a,b)
- No. 7337
Name: *Squalicorax pristodontus* (Agassiz)
Formation: Peedie Fm.
Locality: Rosehill, North Carolina, USA
Age: Cretaceous (Maastrichtian)
Illustrate: Plate 40(7337a,b)
- No. 7338
Name: *Rhombodus binkhorsti* Dames
Formation: Peedie Fm.
Locality: Rosehill, North Carolina, USA
Age: Upper Cretaceous
Illustrate:
- No. 7339
Name: *Pterolamiops longimanus* (Poey)
Formation: Duplin Marl
Locality: Rosehill, North Carolina, USA
Age: Miocene (Tortonian)
Illustrate:
- No. 7340
Name: *Cretolamna appendiculata* (Agassiz)
Formation: Castle Hayne Fm.?
Locality: Rosehill, North Carolina, USA
Age: Upper Cretaceous
Illustrate: Plate 37(7340a,b)
- No. 7341
Name: *Striatolamia macrota* (Agassiz)
Formation: Castle Hayne Fm.
Locality: Rosehill, North Carolina, USA
Age: Eocene (Ypresian ?)
Illustrate: Plate 24(7341a~j)
- No. 7342
Name: Fragments of Teeth Species indeterminate
Formation: unknown
Locality: Bluffs beside white gate Inn Rt.34, Matawan, New Jersey, USA
Age: Upper Cretaceous
Illustrate:
- No. 7343
Name: *Scapanorhynchus texanus* (Roemer)
Formation: unknown
Locality: Rt.35 Foodcircus, Middletown, New Jersey, USA
Age: Upper Cretaceous
Illustrate: Plate 32(7343a,b)
- No. 7344
Name: *Otodus obliquus* Agassiz
Formation: Vincentown - Hornerstown
Locality: Van Horn Farm, New Egypt, New Jersey, USA
Age: Eocene
Illustrate:
- No. 7345
Name: *Squalicorax pristodontus* (Agassiz)
Formation: Navesink Fm.
Locality: Poricy Brook, Middletown, New Jersey, USA
Age: Upper Cretaceous
Illustrate: Plate 40

- No. 7346
Name: *Ischyodus* sp.
Formation: Navesink Fm.
Locality: Nutt-Dye Farm, Hornerstown,
New Jersey, USA
Age: Upper Cretaceous
Illustrate:
- No. 7349
Name: *Carcharodon sulcidens* (Linnaeus)
Formation: unknown
Locality: Uloa-Zululand. South Africa
Age: Miocene
Illustrate: Plate 34(7349a-c)
- No. 7350
Name: *Carcharodon sulcidens* (Linnaeus)
Formation: unknown
Locality: Milnerton Beach, Rep. So., Africa
Age: Miocene
Illustrate: Plate 34
- No. 7351
Name: *Isurus hastalis* (Agassiz)
Formation: unknown
Locality: Terhagen, near Boom, Belgium
Age: Miocene (Anversian)
Illustrate: Plate 35
- No. 7352
Name: *Isurus planus* (Agassiz)
Formation: Modello
Locality: "Leisure World" housing project, El Toro,
California, USA
Age: Miocene
Illustrate: Plate 36(7352a-d)
- No. 7353
Name: *Odontaspis* sp.
Formation: C2 Phosphate Bed Mid Globigerina
Limestone.
Locality: Gnejna valley, Island of Malta
Age: Miocene
Illustrate: Plate 11
- No. 7354
Name: *Isurus planus* (Agassiz)
Formation: Valmonte Member, Monterey Fm.
Locality: Great Lakes Carbon Corp. Diatomaceous
Earth, Palos Verdes, California, USA
Age: Miocene
Illustrate: Plate 36(7354a-d)
- No. 7355
Name: *Synodontaspis acutissima* (Agassiz)
Formation: unknown
Locality: Flonheim, Germany
Age: Miocene
Illustrate: Plate 32
- No. 7356
Name: *Pristiophorus* sp.
Formation: Santa Maria-Garlita Fm.
Locality: Templeton, California, USA
Age: Miocene
Illustrate: Plate 7(7356a-d)
- No. 7357
Name: *Raja clavata* Agassiz ?
Formation: Red Crag Nodule Bed.
Locality: Woodbridge, Suffolk, England, UK
Age: Miocene ?
Illustrate: Plate 42(7357a,b)
- No. 7358
Name: *Raja antiqua* Agassiz
Formation: Red Crag Nodule Bed.
Locality: Woodbridge, Suffolk, England, UK
Age: Miocene ?
Illustrate: Plate 42(7358a,b)
- No. 7359
Name: *Edaphodon* sp.
Formation: Red Crag Nodule Bed.
Locality: Woodbridge, Suffolk, England, UK
Age: Miocene
Illustrate:
- No. 7360
Name: *Notorhynchus primigenius* (Agassiz)
Formation: Kirkwood Fm. ?
Locality: Mingamahone Brook(HI-43), Allaire state
Park, Hurley Pond Rd., Farmingdale,
New Jersey, USA
Age: Miocene
Illustrate: Plate 6
- No. 7361
Name: *Odontaspis* sp.
Formation: unknown
Locality: Intracoastal waterway near Myrtle Beach,
South Carolina, USA
Age: Cretaceous - Miocene ?
Illustrate: Plate 11(7361a,b)
- No. 7362
Name: *Isurus hastalis* (Agassiz)
Formation: unknown
Locality: Near Anutwarpen, Rumst, Belgium
Age: Miocene (Anutversian)
Illustrate: Plate 35(7362a,b)
- No. 7363
Name: *Synodontaspis cuspidata* (Agassiz)
Formation: unknown
Locality: Lespignan, Hérault, France
Age: Miocene (Burdigalian)
Illustrate: Plate 32(7363a,b)
- No. 7364
Name: *Synodontaspis* sp.
Formation: unknown
Locality: Bippen, Westfalen, Germany
Age: Miocene
Illustrate: Plate 32(7364a,b)
- No. 7365
Name: *Myliobatis* sp.
Formation: unknown
Locality: Sidi Daoui, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 43

No. 7366
Name: *Myliobatis dixonii* Agassiz
Formation: unknown
Locality: Sidi Daoui, Morocco
Age: Eocene
Illustrate: Plate 4(1),29

No. 7367
Name: *Raja mucronata* (Woodward)
Formation: unknown
Locality: Oued Zem, Morocco
Age: Palaeocene (Montian)
Illustrate:

No. 7368
Name: *Myliobatis raouxi* Arambourg
Formation: unknown
Locality: Oued Zem, Morocco
Age: Palaeocene (Thanetian)
Illustrate: Plate 43(7368a,b)

No. 7369
Name: *Burnhamia daviesi* (Woodward)
Formation: unknown
Locality: Oued Zem, Morocco
Age: Eocene (Ypresian)
Illustrate:

No. 7370
Name: *Myliobatis* sp.
Formation: unknown
Locality: Oued Zem, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 43(7370a,b)

No. 7371
Name: *Myliobatis jugosus* Leidy
Formation: unknown
Locality: Khouribga, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 43(7371a,b)

No. 7372
Name: *Hexanchus microdon* (Agassiz)
Formation: unknown
Locality: Oued Zem, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 6(7372a,b)

No. 7373
Name: *Ginglymostoma africanum* Leriche
Formation: unknown
Locality: Oued Zem, Morocco
Age: Palaeocene (Thanetian)
Illustrate:

No. 7374
Name: *Nebrius maghrebianum* (Casier)
Formation: unknown
Locality: Oued Zem, Morocco
Age: Palaeocene (Thanetian)
Illustrate:

No. 7375
Name: *Ginglymostoma subafricanum* Arambourg
Formation: unknown
Locality: Oued Zem, Morocco
Age: Palaeocene (Montian)
Illustrate:

No. 7376
Name: *Dasyatis tetraedra* Arambourg
Formation: unknown
Locality: Oued Zem, Morocco
Age: Palaeocene (Montian)
Illustrate:

No. 10000
Name: *Acrodus lateralis* Agassiz
Formation: Keuper Beds / Muschelkalk
Locality: Sommerhausen, Germany
Age: Upper Triassic
Illustrate:

No. 10001
Name: *Hybodus longiconus* Agassiz
Formation: Muschel Kalk Beds
Locality: Sommerhausen, Germany
Age: Upper Triassic (Keuper)
Illustrate: Plate 5

No. 10002
Name: *Hybodus* sp.
(Spine Fragment in matrix with red peel.)
Formation: unknown
Locality: Penarth, Cardiff, Glamorgan,
South Wales, UK
Age: Upper Triassic
Illustrate:

No. 10003
Name: *Hybodus rugosus* (Agassiz)
Formation: Lettenkohle Bonebed
Locality: Crailsheim, Germany
Age: Jurassic
Illustrate: Plate 5

No. 10004
Name: *Hybodus grossiconus* Agassiz
Formation: unknown
Locality: Stonesfield, England, UK
Age: Jurassic
Illustrate: Plate 5(10004a,b)

No. 10005
Name: *Hybodus delabechei* Charlesworth
Formation: Greenhorn L / S Fm.
Locality: 1 mi. S.E. of Getmore, Kansas, USA
Age: Cretaceous
Illustrate: Plate 5

- No. 10006
Name: *Hybodus* sp. Cephalic hook
Formation: Navesink (derived)
Locality: Dug out of Ancient River Channel
in Flood Plain, Big Brook,
Marlboro, New Jersey, USA
Age: Upper Cretaceous (Middle Maastrichtian)
Illustrate: Plate 5
- No. 10007
Name: *Acrodus lateralis* Agassiz
Formation: Muschel Kalk Fm.
Locality: Crailsheim, Wurttemberg, Germany
Age: Triassic
Illustrate:
- No. 10008
Name: *Acrodus gaillardoti* Agassiz
Formation: Muschel Kalk Fm.
Locality: Beyreuth, Bavaria, Germany
Age: Triassic
Illustrate: Plate 5
- No. 10009
Name: *Acrodus* sp. & Reptile tooth sp. indet.
Formation: Muschel Kalk Fm.
Locality: Heldenmuhle, Germany
Age: Triassic (Keuper)
Illustrate:
- No. 10010
Name: *Acrodus acutus* (Agassiz)
Formation: unknown
Locality: Du Ravin de Boisset,
Yves de Salins les Basin, France
Age: Triassic
Illustrate:
- No. 10011
Name: *Acrodus braunii* Agassiz
Formation: unknown
Locality: Rottenburg, Bavaria, Germany
Age: Triassic (Keuper)
Illustrate:
- No. 10012
Name: *Acrodus nobilis* Agassiz
Formation: unknown
Locality: Near Bristol, Somersetshire, England, UK
Age: Jurassic
Illustrate: Plate 5, Case(1973): p.18 ,fig. 57
- No. 10013
Name: *Acrodus nobilis* Agassiz
Formation: unknown
Locality: Bristol, Somerset, England, UK
Age: Jurassic (Middle Lias)
Illustrate:
- No. 10014
Name: *Acrodus* sp.
Formation: unknown
Locality: Westbury on Severn, Gloucester, England, UK
Age: Triassic
Illustrate:
- No. 10015
Name: *Asteracanthus (Strophodus)*
reticulatus (Münster)
Formation: unknown
Locality: Zernglaff, Pomorany, Germany
Age: Jurassic
Illustrate: Plate 5
- No. 10016
Name: *Asteracanthus magnus*
Formation: unknown
Locality: Shipton-on-Chewell, Oxfordshire, England, UK
Age: Jurassic
Illustrate: Plate 5(10016a,b)
- No. 10017
Name: *Asteracanthus (Strophodus) tenuis* Agassiz
Formation: Oolitic L/S
Locality: Stonesfield, Oxfordshire, England, UK
Age: Jurassic
Illustrate: Plate 5
- No. 10018
Name: *Asteracanthus ornatissimus* Agassiz
var. *A.flettonensis* Woodward
Formation: Oxford Clay
Locality: Fletton, Peterborough, England, UK
Age: Jurassic
Illustrate: Plate 5, Case(1973): p.18,fig.60
- No. 10019
Name: *Ptychodus mammillaris* Agassiz
Formation: Eagle Ford Shale
Locality: Dallas, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 5, Case (1973) p.25,fig.86
- No. 10020
Name: *Ptychodus mammillaris* Agassiz
Formation: unknown ?
Locality: Rochester, England, UK
Age: Upper Cretaceous (Turonian)
Illustrate: Plate 5(10020a,b)
- No. 10021
Name: *Ptychodus mammillaris* Agassiz
Formation: Middle. Chalk
Locality: Burwell, Cambs, England, UK
Age: Upper Cretaceous
Illustrate: Plate 5(10021a,b)
- No. 10022
Name: *Ptychodus mammillaris* Agassiz
Formation: unknown
Locality: Dresden, Germany
Age: Upper Cretaceous (Turonian)
Illustrate: Plate 5

- No. 10023
Name: *Ptychodus* sp.
Formation: Eagle Ford
Locality: Carrollton, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 5
- No. 10024
Name: *Ptychodus* sp.
Formation: Austin Chalk
Locality: Dallas, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 5
- No. 10025
Name: *Ptychodus* sp.
Formation: unknown
Locality: Labiatius Mergel, Muhlheim, Germany
Age: Upper Cretaceous (Turonian)
Illustrate: Plate 5
- No. 10026
Name: *Ptychodus mammillaris* Agassiz
Formation: unknown
Locality: Bettrechies, France
Age: Cretaceous (Turonian)
Illustrate: Plate 5(10026a,b)
- No. 10027
Name: *Ptychodus mammillaris* Agassiz
Formation: unknown
Locality: Below Dam, Waco, Texas, USA
Age: Upper Cretaceous (Coniacian)
Illustrate: Plate 5
- No. 10028
Name: *Ptychodus* sp.
Formation: Niobrara Fm. Tempas Member Limestone
Locality: Morrison, Colorado, USA
Age: Upper Cretaceous
Illustrate:
- No. 10029
Name: *Ptychodus* sp.
Formation: Green Horn Limestone Fm.
Locality: Eastern Wyoming, West of Newcastle, USA
Age: Upper Cretaceous
Illustrate: Plate 6(10029a,b)
- No. 10030
Name: *Ptychodus* sp.
Formation: Eagle Foul Shale
Locality: At Arcadia park & Cockerell Hill Rd. Dallas County, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 6(10030a,b)
- No. 10031
Name: *Ptychodus* sp.
Formation: Dakota Fm. ?
Locality: Rooney's Gulch, Colorado, USA
Age: Upper Cretaceous
Illustrate: Plate 6(10031a~c)
- No. 10032
Name: *Ptychodus* sp.
Formation: Eagle Ford Shale
Locality: Austin, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 6(10032a~c)
- No. 10033
Name: *Ptychodus* sp.
Formation: Austin Chalk or Eagle Ford Shale
Locality: On Edge of Lake Texhoma, S.W. of Pottsboro, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 6(10033a~d)
- No. 10034
Name: *Ptychodus* sp.
Formation: Chalk Beds
Locality: Dunton Green, Kent, England, UK
Age: Upper Cretaceous
Illustrate: Plate 6(10034a~d)
- No. 10035
Name: *Ptychodus* sp.
Formation: Carlisle shale
Locality: Edgemont, South Dakota, USA
Age: Upper Cretaceous
Illustrate: Plate 6(10035a~c)
- No. 10036
Name: *Ptychodus* sp.
Formation: Carlile Shale
Locality: Upton, Wyoming, Weston County, USA
Age: Cretaceous
Illustrate: Plate 6(10036a~h)
- No. 10037
Name: *Ptychodus* sp.
Formation: Carlisle Shale
Locality: Upton, Wyoming, USA
Age: Cretaceous
Illustrate: Plate 6
- No. 10038
Name: *Ptychodus whipplei* Marcou
Formation: unknown
Locality: Chalk Hill Road, Dallas, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 5(10038a,b)
- No. 10039
Name: *Ptychodus* sp.
Formation: unknown
Locality: Mt.Lake road Kamp Ranch, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 6(10039a~c)
- No. 10040
Name: *Ptychodus* sp.
Formation: Chalk
Locality: Kent, England, UK
Age: Upper Cretaceous
Illustrate: Plate 6(10040a~c)

No. 10041
Name: *Ptychodus* sp.
Formation: Carlisle Shale
Locality: Rawlins, Wyoming, USA
Age: Upper Cretaceous
Illustrate: Plate 6(10041a~c)

No. 10042
Name: *Ptychodus* sp.
Formation: South Basque Fm. (Eagle Ford Shale)
Locality: McGregor, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 6

No. 10043
Name: *Ptychodus* sp.
Formation: Graneros Shale ?
Locality: Fairport, Kansas, USA
Age: Upper Cretaceous
Illustrate: Plate 6(10043a~c)

No. 10044
Name: *Ptychodus mammilaris* Agassiz
Formation: Carlisle Shale
Locality: 4 mi. So. Osage, Weston Co., Wyoming, USA
Age: Upper Cretaceous
Illustrate: Plate 5(10044a~l)

No. 10045
Name: *Hexanchus microdon* (Agassiz)
Formation: unknown
Locality: L'Oued Zem, S.E. of Casablanca, Morocco
Age: Eocene (Landanian)
Illustrate: Plate 6

No. 10046
Name: *Hexanchus* sp.
Formation: unknown
Locality: Melkbos, Cape Province South Africa
Age: Miocene
Illustrate: Plate 6

No. 10047
Name: *Notorhynchus primigenius* (Agassiz)
Formation: unknown
Locality: Weinheim, Germany
Age: Upper Oligocene
Illustrate: Plate 6

No. 10048
Name: *Notorhynchus primigenius* (Agassiz)
Formation: Kirkwood Fm.
Locality: Shark River, New Jersey, USA
Age: Miocene
Illustrate: Plate 6(10048a~e)

No. 10049
Name: *Echinorhinus blakei* Agassiz
Formation: Pungo River Marl Fm.
Locality: T.G.S. North Carolina, USA
Age: Middle Miocene
Illustrate: Plate 7(10049a~e)

No. 10050
Name: *Squalus* sp.
Formation: unknown
Locality: Hemixem, Belgium
Age: Eocene (Auversian)
Illustrate:

No. 10051
Name: *Squalus* sp.
Formation: unknown
Locality: Ouid Zem, Morocco
Age: Palaeocene (Thanetian)
Illustrate:

No. 10052
Name: *Squalus* sp.
Formation: unknown
Locality: Hemixem, Belgium
Age: Eocene (Auversian)
Illustrate:

No. 10053
Name: *Squalus* sp.
Formation: unknown
Locality: Craie D'obourg, Belgium
Age: Upper Cretaceous
Illustrate:

No. 10054
Name: *Pristiophorus* sp.
Formation: Temblor Fm.
Locality: Oildale, California, USA
Age: Miocene
Illustrate: Plate 7

No. 10055
Name: *Pristiophorus* sp.
Formation: Sant Margarita Fm.
Locality: Templeton, California, USA
Age: Miocene
Illustrate: Plate 7(10055a~e)

No. 10056
Name: *Pristiophorus* sp.
Formation: Monterey Fm. ?
Locality: Camp Drake near Lake Cachuma, California, USA
Age: Miocene
Illustrate: Plate 7

No. 10057
Name: *Squatina hassei* Leriche
Formation: Mt. Laurel Fm.
Locality: Willow Brook, Colts Neck, New Jersey, USA
Age: Upper Cretaceous
Illustrate:

No. 10058
Name: *Squatina* sp.
Formation: unknown
Locality: Crownsville, Hawkins Rd., Maryland, USA
Age: Upper Cretaceous
Illustrate:

No. 10059
Name: *Squatina* sp.
Formation: Peedee Fm.
Locality: Rosehill, North Carolina, USA
Age: Upper Cretaceous
Illustrate:

No. 10060
Name: *Squatina* sp.
Formation: unknown
Locality: Craie D'obourg, Belgium
Age: Upper Cretaceous
Illustrate:

No. 10061
Name: *Squatina* sp.
Formation: unknown
Locality: Hardivillers, France
Age: Upper Cretaceous (Campanian)
Illustrate:

No. 10062
Name: *Squatina prima* (Winkler)
Formation: unknown
Locality: Oued Zem, Morocco
Age: Eocene (Ypresian)
Illustrate:

No. 10063
Name: *Squatina* sp. ?
Formation: unknown
Locality: Hemixem, Belgium
Age: Miocene (Anversien)
Illustrate:

No. 10064
Name: *Squatina* sp.
Formation: Sant Margarita Fm.
Locality: Templeton, California, USA
Age: Miocene
Illustrate: Plate 7

No. 10065
Name: *Squatina* sp.
Formation: unknown
Locality: Obourg, Belgium
Age: Upper Cretaceous
Illustrate:

No. 10066
Name: *Squatina* sp.
Formation: unknown
Locality: Orp le Grand, Belgium
Age: Upper Cretaceous (Maastrichtian)
Illustrate:

No. 10067
Name: *Heterodontus* sp.
Formation: unknown
Locality: Big Brook, Marlboro, New Jersey, USA
Age: Upper Cretaceous
Illustrate:

No. 10068
Name: *Heterodontus* sp.
Formation: unknown
Locality: Orp le Grand, Belgium
Age: Upper Cretaceous (Maastrichtian)
Illustrate:

No. 10069
Name: *Cretorectolobus olsoni* Case
Formation: Mesaverde Fm.
Locality: Worland, Wyoming, USA
Age: Upper Cretaceous (Late Campanian)
Illustrate:

No. 10070
Name: *Ginglymostoma subafricanum* Arambourg
Formation: unknown
Locality: Morocco
Age: Upper Cretaceous (Maastrichtian)
Illustrate:

No. 10071
Name: *Ginglymostoma angolense* Darteville & Casier
Formation: unknown
Locality: Khouribga, Morocco
Age: Eocene (Ypresian)
Illustrate:

No. 10072
Name: *Ginglymostoma* sp.
Formation: unknown
Locality: Bou-Jniba, Morocco
Age: Eocene (Ypresian)
Illustrate:

No. 10073
Name: *Ginglymostoma globidens* Cappetta & Case
Formation: Matawan
Locality: Crownsville, Maryland, USA
Age: Upper Cretaceous
Illustrate:

No. 10074
Name: *Nebrius thielensis* (Winkler)
Formation: Lédien
Locality: Balegem, Belgium
Age: Eocene
Illustrate:

No. 10075
Name: *Nebrius blanckenhori* (Stromer)
Formation: unknown
Locality: Oued-Zem, Morocco
Age: Eocene (Ypresian)
Illustrate:

No. 10076
Name: *Nebrius blanckenhorni* (Stromer)
Formation: unknown
Locality: Merah-El-Arech, Morocco
Age: Eocene (Ypresian)
Illustrate:

No. 10077

Name: *Nebrius* sp.
Formation: Bashi Fm.
Locality: Meridian, Mississippi, USA
Age: Eocene
Illustrate:

No. 10078

Name: *Hypotodus robustus* (Leriche)
Formation: Blackheath Beds
Locality: Abbey Wood, Kent, England, UK
Age: Eocene
Illustrate: Plate 7(10078a~h)

No. 10079

Name: *Hypotodus robustus* (Leriche)
Formation: Woolrich Bottom Bed
Locality: Bishopstone, England, UK
Age: Eocene
Illustrate: Plate 7(10079a~c)

No. 10080

Name: *Hypotodus robustus* (Leriche)
Formation: Oldhaven Pebble Bed
Locality: Bishopstone, England, UK
Age: Eocene
Illustrate: Plate 7(10080a~c)

No. 10081

Name: *Hypotodus robustus* (Leriche)
Formation: Oldhaven Beds (Main series)
Locality: Shelford Sand Pit near Canterbury, Kent, England, UK
Age: Eocene
Illustrate: Plate 8(10081a~i)

No. 10082

Name: *Hypotodus robustus* (Leriche)
Formation: Tallahatta Fm.
Locality: Andalusia, Alabama, USA
Age: Early Middle Eocene
Illustrate: Plate 8

No. 10083

Name: *Odontaspis* sp.
Formation: unknown
Locality: Port Royal, South Carolina, USA
Age: Miocene
Illustrate: Plate 11(10083a~e)

No. 10084

Name: *Odontaspis* sp.
Formation: unknown
Locality: Morocco
Age: Upper Cretaceous and Tertiary
Illustrate:

No. 10085

Name: *Odontaspis* sp.
Formation: Lédien
Locality: BALEGEM, Belgium
Age: Eocene
Illustrate: Plate 12(10085a~i)

No. 10086

Name: *Isurus hastalis* (Agassiz) Agassiz
Formation: unknown
Locality: Brickworks at Rumst, Belgium
Age: Miocene
Illustrate: Plate 1(6,7),9(10086a~h)

No. 10087

Name: *Odontaspis* sp.
Formation: unknown
Locality: Rt.35 Foodcircus, Middletown, New Jersey, USA
Age: Upper Cretaceous
Illustrate: Plate 12

No. 10088

Name: *Odontaspis* sp.
Formation: Modello
Locality: "Leisure World" housing project, El Toro, California, USA
Age: Miocene
Illustrate: Plate 12

No. 10089

Name: *Odontaspis* sp.
Formation: unknown
Locality: Senon Quedlinburg in Harz, Germany
Age: Upper Cretaceous (Senonian ?)
Illustrate:

No. 10090

Name: *Odontaspis verticalis* Agassiz
Formation: Bracklesham Beds
Locality: Bracklesham Bay, Sussex, England, UK
Age: Cretaceous
Illustrate: Plate 9

No. 10091

Name: *Carcharias steineri* (Case)
Formation: Mesaverde Fm.
Locality: Worland, Wyoming, USA
Age: Upper Cretaceous (Late Campanian)
Illustrate:

No. 10092

Name: *Odontaspis* sp.
Formation: unknown
Locality: Rosehill, North Carolina, USA
Age: Upper Cretaceous
Illustrate: Plate 12(10092a~d)

No. 10093

Name: *Odontaspis* sp.
Formation: Taylor Marl
Locality: N. Shilphur River, Ladonia, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 12(10093a~c)

No. 10094

Name: *Odontaspis* sp.
Formation: unknown
Locality: Craie D'obourg, Belgium
Age: Upper Cretaceous
Illustrate:

- No. 10095
Name: *Odontaspis* sp.
Formation: Canonball Fm.
Locality: Moffit, North Dakota, USA
Age: Palaeocene
Illustrate:
- No. 10096
Name: *Odontaspis* sp.
Formation: unknown
Locality: L'Oued Zem, South East of Casablanca, Morocco
Age: Eocene (Landanian)
Illustrate:
- No. 10097
Name: *Odontaspis* sp.
Formation: unknown
Locality: L'Oued Zem, South East of Casablanca, Morocco
Age: Eocene (Landanian)
Illustrate:
- No. 10098
Name: *Odontaspis crassidens* (Dixon)
Formation: London clay
Locality: Warden point, Isle of Sheppey, Kent, England, UK
Age: Eocene
Illustrate: Plate 9(10098a~m)
- No. 10099
Name: *Synodontaspis (cuspidata) teretidens* White
Formation: Oldhaven Beds (Main series)
Locality: Shelford Sand Pit near Canterbury, Kent, England, UK
Age: Eocene
Illustrate: Plate 9(10099a~i)
- No. 10100
Name: *Odontaspis* sp.
Formation: unknown
Locality: Khouribga, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 12(10100a~o)
- No. 10101
Name: *Odontaspis* sp.
Formation: unknown
Locality: Beni-Idir, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 12(10101a~h)
- No. 10102
Name: *Odontaspis* sp.
Formation: unknown
Locality: Kings Bay, Georgia, USA
Age: Miocene
Illustrate: Plate 12(10102a~d)
- No. 10103
Name: *Odontaspis* sp.
Formation: unknown
Locality: Bavaria, Germany
Age: Miocene
Illustrate: Plate 12
- No. 10104
Name: *Odontaspis* sp.
Formation: unknown
Locality: Gainfarnner Buchf near Bad Vöslau, Austria
Age: Middle Miocene
Illustrate: Plate 12(10104a,b)
- No. 10105
Name: *Odontaspis* sp.
Formation: unknown
Locality: Hopefield-Lancebaan, Cape Province, S. Africa
Age: Pliocene-Pleistocene ?
Illustrate: Plate 12
- No. 10106
Name: *Odontaspis* sp.
Formation: Navesink (derived)
Locality: Dug out of Ancient River Channel in Flood Plain, Big Brook, Marlboro, New Jersey, USA
Age: Upper Cretaceous (Middle Maastrichtian)
Illustrate: Plate 12(10106a~d)
- No. 10107
Name: *Odontaspis* sp.
Formation: unknown
Locality: Beni-Idir, Morocco
Age: Cretaceous (Maastrichtian)
Illustrate: Plate 12(10107a,b)
- No. 10108
Name: *Odontaspis* sp.
Formation: unknown
Locality: Beni-Idir, Morocco
Age: Upper Cretaceous
Illustrate: Plate 12(10108a~d)
- No. 10109
Name: *Odontaspis* sp.
Formation: unknown
Locality: Belgium
Age: Upper Cretaceous
Illustrate: Plate 13(10109a,b)
- No. 10110
Name: *Odontaspis* sp.
Formation: unknown
Locality: Obourg, Belgium
Age: Upper Cretaceous
Illustrate: Plate 13(10110a~d)
- No. 10111
Name: *Odontaspis* sp.
Formation: unknown
Locality: Irrigation Pond, Buttonwood Farm, near Marlboro, at Herbert's Corner, off Rt.520, Bradevelt, New Jersey, USA
Age: Upper Cretaceous (Middle Maastrichtian)
Illustrate: Plate 13
- No. 10112
Name: *Odontaspis* sp.
Formation: Chalk
Locality: Kent, England, UK
Age: Upper Cretaceous
Illustrate: Plate 13(10112a,b)

No. 10113
 Name: *Odontaspis* sp.
 Formation: Taylor Marl Fm. (Brownstown Marl ?)
 Locality: Bell Co., Sparks, Texas, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10114
 Name: *Odontaspis* sp.
 Formation: South Basque Fm. (Eagle Ford Shale)
 Locality: McGregor, Texas, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10115
 Name: *Odontaspis* sp.
 Formation: Niobrara Fm.
 Locality: Mitchell, South Dakota, USA
 Age: Upper Cretaceous
 Illustrate: Plate 13

No. 10116
 Name: *Odontaspis* sp.
 Formation: Eagle Ford Shale
 Locality: Austin, Texas, USA
 Age: Upper Cretaceous
 Illustrate: Plate 13

No. 10117
 Name: *Odontaspis* sp.
 Formation: Creyson Fm. Washita Group,
 Comanchian Series.
 Locality: Denton Co., Texas, USA
 Age: Lower Cretaceous
 Illustrate:

No. 10118
 Name: *Serratolamnias amonensis*
 (Cappetta & Case)
 Formation: Uppermost Woodbine Fm.
 Locality: Tarrant Co., Texas, USA
 Age: Upper Cretaceous
 Illustrate: Plate 9(10118a-f)

No. 10119
 Name: *Odontaspis* sp.
 Formation: Carlisle Shale
 Locality: Rawlins, Wyoming, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10120
 Name: *Odontaspis* sp.
 Formation: Essener Greensand
 Locality: Muhlheim, Germany
 Age: Upper Cretaceous (Cenomanian)
 Illustrate: Plate 13(10120a-d)

No. 10121
 Name: *Odontaspis* sp.
 Formation: Frontier Fm. (Carlisle Shale)
 Locality: Nowl, Wyoming, USA
 Age: Upper Cretaceous
 Illustrate: Plate 13(10121a,b)

No. 10122
 Name: *Odontaspis* sp.
 Formation: Duck Creek Limestone Fm.
 Locality: Crayson County, Texas, USA
 Age: Upper Cretaceous
 Illustrate: Plate 13(10122a,b)

No. 10123
 Name: *Odontaspis* sp.
 Formation: Carlisle shale
 Locality: Edgemont, South Dakota, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10124
 Name: *Odontaspis* sp.
 Formation: Carlile Shale
 Locality: Upton, Wyoming, Weston County, USA
 Age: Cretaceous
 Illustrate: Plate 13(10124a-c)

No. 10125
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Maret, Belgium
 Age: Palaeocene (Landenian)
 Illustrate: Plate 13(10125a-d)

No. 10126
 Name: *Odontaspis* sp.
 Formation: Aquia Fm.
 Locality: Marlboro point, Virginia, USA
 Age: Palaeocene/Eocene
 Illustrate: Plate 13(10126a-d)

No. 10127
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Oued-Zem, Morocco
 Age: Palaeocene (Montian)
 Illustrate: Plate 13(10127a-e)

No. 10128
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Beni-Idir, Morocco
 Age: Palaeocene (Montian)
 Illustrate: Plate 13(10128a-g)

No. 10129
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: K'Peme, Togo, Africa
 Age: Eocene (Ypresian)
 Illustrate: Plate 13(10129a-e)

No. 10130
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Metlaoui, Tunisia
 Age: Eocene (Ypresian)
 Illustrate: Plate 13(10130a-e)

- No. 10131
Name: *Odontaspis* sp.
Formation: unknown
Locality: Oued Zem, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 13(10131a~i)
- No. 10132
Name: *Odontaspis* sp.
Formation: unknown
Locality: Stockpile in Town, at the Plant, Youssoufia, Morocco
Age: Eocene (Montian & Ypresian)
Illustrate: Plate 14(10132a~i)
- No. 10133
Name: *Odontaspis* sp.
Formation: Kirkwood Fm.
Locality: Shark River, Neptune, New Jersey, USA
Age: Miocene
Illustrate: Plate 14(10133a~j)
- No. 10134
Name: *Odontaspis* sp.
Formation: Shark River Marl
Locality: Shark River, Neptune, New Jersey, USA
Age: Eocene
Illustrate:
- No. 10135
Name: *Odontaspis* sp.
Formation: unknown
Locality: Merah-El-Arech, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 14(10135a~i)
- No. 10136
Name: *Odontaspis* sp.
Formation: unknown
Locality: Khouribga, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 1(12,13),14(10136a~g)
- No. 10137
Name: *Odontaspis* sp.
Formation: unknown
Locality: Tranch@e R.E.I., Sidi-Daoui, Morocco
Age: Eocene (Thanetian-Ypresian)
Illustrate: Plate 14(10137a~c)
- No. 10138
Name: *Odontaspis* sp.
Formation: Aquia Fm.
Locality: Belvedere Beach, Osso, Virginia, USA
Age: Eocene
Illustrate: Plate 14
- No. 10139
Name: *Odontaspis* sp.
Formation: Vincentown Fm.
Locality: Church & Eayrestown Rd., Medford, New Jersey, USA
Age: Eocene
Illustrate: Plate 14(10139a~c)
- No. 10140
Name: *Odontaspis* sp.
Formation: Clinchfield Sand, Claiborne Group
Locality: Quarry, Clinchfield, Georgia, USA
Age: Middle Eocene
Illustrate: Plate 14(10140a~e)
- No. 10141
Name: *Odontaspis* sp.
Formation: Bashi Fm.
Locality: Meridian, Mississippi, USA
Age: Eocene
Illustrate: Plate 14(10141a~e)
- No. 10142
Name: *Odontaspis* sp.
Formation: Aquia Fm. Piscataway member
Locality: Smith's point (Potomac river) near Liverpool PT., MD., USA
Age: Eocene
Illustrate: Plate 14(10142a,b)
- No. 10143
Name: *Odontaspis* sp.
Formation: Helmick Hill Fm.
Locality: Monmouth, Oregon, USA
Age: Eocene
Illustrate:
- No. 10144
Name: *Odontaspis* sp.
Formation: Ocala Limestone
Locality: Sandersville, Georgia, USA
Age: Late Eocene
Illustrate: Plate 14(10144a~e)
- No. 10145
Name: *Odontaspis* sp.
Formation: unknown
Locality: 3 miles near Malvern, Hot Springs Co., Arkansas, USA
Age: Eocene
Illustrate: Plate 15(10145a~e)
- No. 10146
Name: *Odontaspis* sp.
Formation: unknown
Locality: Sankt Pankraz near Hanunsberg, Salzburg, Austria
Age: Eocene (Lutetian ?)
Illustrate: Plate 15(10146a,b)
- No. 10147
Name: *Odontaspis* sp.
Formation: unknown
Locality: Washout area at foot of cliff, Arkansas, USA
Age: Eocene
Illustrate: Plate 15(10147a,b)
- No. 10148
Name: *Odontaspis* sp.
Formation: Cooper Marl (Jackson Group)
Locality: Hawkinsville, Georgia, USA
Age: Upper Eocene - Lower Oligocene
Illustrate: Plate 15(10148a~c)

No. 10149
 Name: *Odontaspis* sp.
 Formation: Barton Beds
 Locality: Barton, Sussex, England, UK
 Age: Eocene
 Illustrate: Plate 15(10149a~c)

No. 10150
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Subway Construction site Brussels, Belgium
 Age: Eocene (Lutetian)
 Illustrate: Plate 15(10150a~c)

No. 10151
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Ghilm, Belgium
 Age: Eocene (Ypresian)
 Illustrate: Plate 15(10151a~d)

No. 10152
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Foret Des Bruxelles, Belgium
 Age: Eocene (Ypresian)
 Illustrate:

No. 10153
 Name: *Odontaspis* sp.
 Formation: Clinchfield Sands
 Locality: Georgia, USA
 Age: Late Eocene
 Illustrate: Plate 15(10153a,b)

No. 10154
 Name: *Odontaspis* sp.
 Formation: Red Crag Bed
 Locality: Suffolk, England, UK
 Age: Eocene
 Illustrate: Plate 15(10154a,b)

No. 10155
 Name: *Odontaspis* sp.
 Formation: Santee Marl
 Locality: Harleyville, South Carolina, USA
 Age: Eocene
 Illustrate: Plate 15(10154a~c)

No. 10156
 Name: *Odontaspis* sp.
 Formation: Bracklesham Beds
 Locality: Bracklesham Bay, England, UK
 Age: Eocene
 Illustrate: Plate 15(10156a~c)

No. 10157
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Medford, New Jersey, USA
 Age: Eocene
 Illustrate:

No. 10158
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Pick County, Alabama, USA
 Age: Palaeocene
 Illustrate: Plate 15(10158a,b)

No. 10159
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Abandoned Trench at Entrance to Old Recette, Oued-Zem, Morocco
 Age: Eocene (Ypresian)
 Illustrate: Plate 15(10159a~e)

No. 10160
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Hemixem, Belgium
 Age: Oligocene (Rupelian)
 Illustrate: Plate 15

No. 10161
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: "A"Bank of Brunswick River, Glynn Co., near Sydney Lanier, Bridge off of Rt.17, GA., USA
 Age: Miocene / Pliocene
 Illustrate: Plate 15(10161a,b)

No. 10162
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: I-95 Construction at White Oak, Camden Co., off Rt.17, GA., USA
 Age: Miocene / Pliocene
 Illustrate: Plate 15(10162a~d)

No. 10163
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Charlie Creek, 2 mi. N of Garner, Florida, USA
 Age: Miocene
 Illustrate: Plate 15

No. 10164
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Manganese Mine on the Island of Cuba
 Age: Miocene ?
 Illustrate: Plate 15(10164a~c)

No. 10165
 Name: *Odontaspis* sp.
 Formation: Calvert Fm.
 Locality: Potomac River, Charles County, Maryland, USA
 Age: Miocene
 Illustrate: Plate 15(10165a,b)

No. 10166
 Name: *Odontaspis* sp.
 Formation: Hawthorne Fm. ?
 Locality: Edisto Beach, South Carolina, USA
 Age: Miocene
 Illustrate: Plate 15

No. 10167
 Name: *Odontaspis* sp.
 Formation: Hawthorne Fm.
 Locality: Murrell's inlet, Garden city,
 South Carolina, USA
 Age: Miocene
 Illustrate:

No. 10168
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Minnesott Beach, near Arapahoe Beach,
 North Carolina, USA
 Age: Miocene
 Illustrate: Plate 15

No. 10169
 Name: *Odontaspis* sp.
 Formation: Vascos Fm.
 Locality: Scotts Valley, California, USA
 Age: Miocene
 Illustrate: Plate 15

No. 10170
 Name: *Odontaspis* sp.
 Formation: Temblor Fm.
 Locality: Cuyama, California, USA
 Age: Miocene
 Illustrate: Plate 15(10170a-c)

No. 10171
 Name: *Odontaspis* sp.
 Formation: Kirkwood Fm.
 Locality: Mingamahone Brook near Camp
 Houseman, Hurley Pond Rd.
 & Rts. 524-547 Farmingdale,
 New Jersey, USA
 Age: Miocene
 Illustrate: Plate 15(10171a,b)

No. 10172
 Name: *Odontaspis* sp.
 Formation: Temblor Fm.
 Locality: Poso Creek near Woody, California, USA
 Age: Miocene
 Illustrate: Plate 16(10172a,b)

No. 10173
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Deloen, Netherlands
 Age: Miocene
 Illustrate: Plate 16(10173a-c)

No. 10174
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Balagem, Belgium
 Age: Miocene
 Illustrate: Plate 16(10174a-f)

No. 10175
 Name: *Odontaspis* sp.
 Formation: Hawthorne Fm. ?
 Locality: Giant Portland Quarry,
 South Carolina, USA
 Age: Miocene
 Illustrate: Plate 16(10175a,b)

No. 10176
 Name: *Odontaspis* sp.
 Formation: Monterey Fm. ?
 Locality: Camp Drake near Lake Cachuma, California,
 USA
 Age: Miocene
 Illustrate: Plate 16(10176a-c)

No. 10177
 Name: *Odontaspis* sp.
 Formation: Hawthorne(?)
 Locality: Jacksonville, Florida, USA
 White shell channel cut-dredgings.
 Age: Miocene
 Illustrate: Plate 16(10177a-c)

No. 10178
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Melkbos, Cape Province, South Africa
 Age: Miocene
 Illustrate: Plate 16(10178a-c)

No. 10179
 Name: *Odontaspis* sp.
 Formation: Pungo River Fm.
 Locality: Lee Creek Mine, Aurora, North Carolina,
 USA
 Age: Middle Miocene (Helvetian)
 Illustrate: Plate 16(10179a-c)

No. 10180
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Newport bay, California, USA
 Age: Pliocene
 Illustrate:

No. 10181
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Boom, Belgium
 Age: Pliocene
 Illustrate: Plate 16(10181a,b)

No. 10182
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Belagem, Belgium
 Age: Pliocene
 Illustrate: Plate 16(10182a,b)

No. 10183
 Name: *Odontaspis winkleri* Leriche
 Formation: Barton beds
 Locality: Hampshire, England, UK
 Age: Eocene
 Illustrate: Plate 1(4,5),8(10183a~m)

No. 10184
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Craie D'obourg, Belgium
 Age: Upper Cretaceous
 Illustrate:

No. 10185
 Name: *Odontaspis* sp. ?
 Formation: unknown
 Locality: Craie D'obourg, Belgium
 Age: Upper Cretaceous
 Illustrate:

No. 10186
 Name: *Odontaspis* sp.
 Formation: Merchantville ? or Woodbury clay.
 Locality: Chesapeake & Delaware Canal,
 St. Georges, Delaware, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10187
 Name: *Odontaspis* sp.
 Formation: Navesink (derived)
 Locality: Tributary Parallel to Ramanesson Brook
 opposite the Old Mill & waterfall
 in the Big Meadow on Harding Property
 (Hop Brook), New Jersey, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10188
 Name: *Odontaspis* sp.
 Formation: Santon Pinniformis Schichten
 Locality: Weiner Esch, Germany
 Age: Upper Cretaceous
 Illustrate:

No. 10189
 Name: *Odontaspis* sp.
 Formation: Yorktown (Duplin Marl ?)
 Locality: Quarry, New Bern, North Carolina, USA
 Age: Miocene
 Illustrate: Plate 16(10189a,b)

No. 10190
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: South Carolina, USA
 Age: Eocene
 Illustrate: Plate 16(10190a~c)

No. 10191
 Name: *Odontaspis* sp.
 Formation: Manasquan Marl
 Locality: Manasquan River, New Jersey, USA
 Age: Eocene
 Illustrate:

No. 10192
 Name: *Odontaspis* sp.
 Formation: Shark River Marl Fm.
 Locality: Neptune, New Jersey, USA
 Age: Eocene
 Illustrate: Plate 16(10192a~c)

No. 10193
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Venice Beach, Florida, USA
 Age: Miocene
 Illustrate: Plate 16(10193a~h)

No. 10194
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Venice Beach, Florida, USA
 Age: Miocene
 Illustrate:

No. 10195
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Savannah, Georgia, USA
 Age: Miocene
 Illustrate: Plate 16(10195a,b)

No. 10196
 Name: *Odontaspis* sp.
 Formation: unknown
 Locality: Morocco
 Age: Upper Cretaceous & Tertiary
 Illustrate: Plate 16(10196a~d)

No. 10197
 Name: *Striatolamia macrota* (Agassiz)
 Formation: unknown
 Locality: Te Whanga Lagoon, Blind Jim's Creek,
 (mouth of Creek) Chatham Islands,
 New Zealand
 Age: Eocene
 Illustrate: Plate 30(10197a~d)

No. 10198
 Name: *Striatolamia macrota* (Agassiz)
 Formation: unknown
 Locality: Sidi Daoui, Morocco
 Age: Eocene (Ypresian)
 Illustrate: Plate 30(10198a~c)

No. 10199
 Name: *Striatolamia macrota* (Agassiz)
 Formation: Aquia Fm.
 Locality: Belvedere Beach, Virginia, USA
 Age: Eocene
 Illustrate: Plate 30;1973 Case;p.32~33 pl.118

No. 10200
Name: *Striatolamia macrota* (Agassiz)
Formation: Aquia Fm.
Locality: Belvidere Beach, Virginia, USA
Age: Eocene
Illustrate: Plate 30

No. 10201
Name: *Striatolamia macrota* (Agassiz)
Formation: unknown
Locality: Paris Basin, France
Age: Eocene
Illustrate: Plate 30

No. 10202
Name: *Striatolamia macrota* (Agassiz)
Formation: unknown
Locality: Barton on the sea, Hampshire, England, UK
Age: Eocene (Mid Bartonian)
Illustrate: Plate 30(10202a~d)

No. 10203
Name: *Striatolamia macrota* (Agassiz)
Formation: Barton Beds
Locality: Hampshire, England, UK
Age: Eocene (Bartonian)
Illustrate: Plate 30(10203a,b)

No. 10204
Name: *Striatolamia striata* (Winkler)
Formation: Blackheath Beds
Locality: Abbey Wood, London, England, UK
Age: Eocene
Illustrate: Plate 30(10204a~e)

No. 10205
Name: *Striatolamia macrota* (Agassiz)
Formation: London Clay
Locality: Isle of Sheppey, Kent, England, UK
Age: Eocene
Illustrate: Plate 30(10205a~c)

No. 10206
Name: *Striatolamia striata* (Winkler)
Formation: Oldhaven Pebble Bed
Locality: Bishopstone Coast Section, near Herne Bay, Kent, England, UK
Age: Eocene
Illustrate: Plate 30(10206a,b)

No. 10207
Name: *Striatolamia striata* (Winkler)
Formation: Oldhaven Beds (Main series)
Locality: Shelford, England, UK
Age: Eocene
Illustrate: Plate 30(10207a~e)

No. 10208
Name: *Striatolamia macrota* (Agassiz)
Formation: unknown
Locality: Subway Construction site, Brussels, Belgium
Age: Eocene (Lutetian)
Illustrate: Plate 31(10208a,b)

No. 10209
Name: *Striatolamia macrota* (Agassiz)
Formation: unknown
Locality: Woluwe, Bruxelles, Belgium
Age: Eocene (Ledian)
Illustrate: Plate 31(10209a,b)

No. 10210
Name: *Striatolamia striata* (Winkler)
Formation: unknown
Locality: unknown
Age: Eocene (Ypresian)
Illustrate: Plate 30(10210a~f)

No. 10211
Name: *Striatolamia macrota* (Agassiz)
Formation: Peedee
Locality: Processing Plant 4 mi. N. of Rosehill, North Carolina, USA
Age: Eocene
Illustrate: Plate 31(10211a~c)

No. 10212
Name: *Striatolamia* sp.
Formation: Zone of *Cardita planicosta*
Locality: Washed ashore, Cadzand, Netherlands
Age: Eocene
Illustrate:

No. 10213
Name: *Striatolamia macrota* (Agassiz)
Formation: unknown
Locality: North Carolina, USA
Age: Eocene
Illustrate: Plate 31(10213a~d)

No. 10214
Name: *Striatolamia macrota* (Agassiz)
Formation: unknown
Locality: Belgium
Age: Eocene (Lutetian ?)
Illustrate: Plate 31(10214a~c)

No. 10215
Name: *Striatolamia macrota* (Agassiz)
Formation: Aquia Fm. Piscataway member
Locality: Smith's point, Potomac river near Liverpool PT., MD., USA
Age: Eocene
Illustrate: Plate 31(10215a~c)

No. 10216
Name: *Striatolamia macrota* (Agassiz)
Formation: Castle Hayne Limestone
Locality: Fussell pit near Rosehill, North Carolina, USA
Age: Eocene
Illustrate: Plate 31

No. 10217
Name: *Striatolamia macrota* (Agassiz)
Formation: unknown
Locality: Mt. Selman, Texas, USA
Age: Late Eocene
Illustrate: Plate 31(10217a~d)

No. 10218
 Name: *Striatolamia macrota* (Agassiz)
 Formation: Stone city Fm., Claiborne Group.
 Locality: Moseley's Ferry N.W. Burleson Co., Texas, USA
 Age: Eocene
 Illustrate: Plate 31

No. 10219
 Name: *Striatolamia* sp.
 Formation: Blackheath Beds
 Locality: Abbey Wood, Kent, England, UK
 Age: Palaeocene
 Illustrate: Plate 32(10219a,b)

No. 10220
 Name: *Striatolamia* sp.
 Formation: Blackheath Beds
 Locality: Abbey Wood, London, England, UK
 Age: Palaeocene
 Illustrate: Plate 32(10220a,b)

No. 10221
 Name: *Striatolamia* sp.
 Formation: Blackheath Beds
 Locality: Abbey Wood, Kent(suburb of London), England, UK
 Age: Palaeocene
 Illustrate: Plate 32(10221a,b)

No. 10222
 Name: *Striatolamia macrota* (Agassiz)
 Formation: Eocene Material Castle Hayne Fm.
 Locality: Superior Stone X Halfway Between Warsaw & Magnolia, North Carolina, USA
 Age: Eocene
 Illustrate: Plate 31(10222a~c)

No. 10223
 Name: *Striatolamia macrota* (Agassiz)
 Formation: Waccamaw Fm.
 Locality: Surrat (Dunn) Farm Shallow, North Carolina, USA
 Age: Pliocene
 Illustrate: Plate 31

No. 10224
 Name: *Striatolamia macrota* (Agassiz)
 Formation: Aquia Fm.
 Locality: Aquia Creek & Belvidere Beach, Virginia, USA
 Age: Early Eocene
 Illustrate: Plate 31(10224a~d)

No. 10225
 Name: *Striatolamia macrota* (Agassiz)
 Formation: unknown
 Locality: Brussels, Belgium
 Age: Eocene (Lutetian, Bruxellian)
 Illustrate: Plate 31(10225a~e)

No. 10226
 Name: *Striatolamia macrota* (Agassiz)
 Formation: unknown
 Locality: Subway Construction site Brussels, Belgium
 Age: Eocene (Lutetian)
 Illustrate: Plate 31(10226a~d)

No. 10227
 Name: *Striatolamia macrota* (Agassiz)
 Formation: unknown
 Locality: Ghilm, Belgium
 Age: Eocene (Ypresian)
 Illustrate: Plate 31

No. 10228
 Name: *Striatolamia macrota* (Agassiz)
 Formation: unknown
 Locality: Foret Des Bruxelles, Belgium
 Age: Eocene (Ypresian)
 Illustrate: Plate 31

No. 10229
 Name: *Striatolamia macrota* (Agassiz)
 Formation: Bracklesham Beds
 Locality: Bracklesham Bay, England, UK
 Age: Eocene
 Illustrate: Plate 32(10229a,b)

No. 10230
 Name: *Striatolamia macrota* (Agassiz)
 Formation: unknown
 Locality: Hemixem, Belgium
 Age: Oligocene (Rupelian)
 Illustrate: Plate 32

No. 10231
 Name: *Striatolamia macrota* (Agassiz)
 Formation: unknown
 Locality: Balagem, Belgium
 Age: Miocene
 Illustrate: Plate 24(10231a~p)

No. 10232
 Name: *Striatolamia macrota* (Agassiz)
 Formation: Shark River Marl Fm.
 Locality: Neptune, New Jersey, USA
 Age: Eocene
 Illustrate: Plate 32(10232a~c)

No. 10233
 Name: *Synodontaspis vincenti* (Winkler)
 Formation: unknown
 Locality: Khouribga, Morocco
 Age: Eocene (Ypresian)
 Illustrate: Plate 32

No. 10234
 Name: *Synodontaspis substriata* (Stromer)
 Formation: unknown
 Locality: Maret En Herbaye, Belgium
 Age: Eocene (Ledian)
 Illustrate:

No. 10235
Name: *Synodontaspis cuspidata* (Agassiz)
Formation: unknown
Locality: Woluwe, Brussels, Belgium
Age: Eocene (Ledian)
Illustrate: Plate 32(10235a,b)

No. 10236
Name: *Synodontaspis macrotia* (Agassiz)
Formation: unknown
Locality: Woluwe, Brussels, Belgium
Age: Eocene (Ledian)
Illustrate: Plate 23(10236a,b)

No. 10237
Name: *Synodontaspis cuspidata* (Agassiz)
Formation: unknown
Locality: Woluwe, Brussels, Belgium
Age: Eocene (Ledian)
Illustrate: Plate 25(10237a,b)

No. 10238
Name: *Synodontaspis cuspidata* (Agassiz)
Formation: unknown
Locality: Weinheim, Germany
Age: Upper Oligocene
Illustrate: Plate 32(10238a~c)

No. 10239
Name: *Synodontaspis acutissima* (Agassiz)
Formation: unknown
Locality: Weinheim, Germany
Age: Upper Oligocene
Illustrate: Plate 32(10239a~c)

No. 10240
Name: *Synodontaspis cuspidata* (Agassiz)
Formation: Brown-coal pits of Espenhain.
Locality: Leipzig, Espenhain, Germany
Age: Oligocene
Illustrate: Plate 32(10240a,b)

No. 10241
Name: *Synodontaspis acutissima* (Agassiz)
Formation: Brown-coal pits of Espenhain.
Locality: Leipzig, Espenhain, Germany
Age: Oligocene
Illustrate: Plate 32(10241a~c)

No. 10242
Name: *Synodontaspis teretidens* White
Formation: Blackheath Beds
Locality: Abbey Wood, England, UK
Age: Eocene (Lower Ypresian)
Illustrate: Plate 32(10242a,b)

No. 10243
Name: *Synodontaspis cuspidata* (Agassiz)
Formation: Santon Pinniformis Schichten
Locality: Germany
Age: Oligocene
Illustrate: Plate 32(10243a,b)

No. 10244
Name: *Anomotodon* sp.
Formation: unknown
Locality: Craie D'obourg, Belgium
Age: Upper Cretaceous
Illustrate:

No. 10245
Name: *Scapanorhynchus texanus* (Roemer)
Formation: unknown
Locality: Spoil Banks, C & D, Canal, St. Georges, Delaware, USA
Age: Miocene
Illustrate: Plate 32(10245a~d)

No. 10246
Name: *Scapanorhynchus texanus* (Roemer)
Formation: Navesink - Mt. Laurel
Locality: Chesapeake & Delaware Canal, St. Georges, Delaware, USA
Age: Upper Cretaceous
Illustrate: Plate 32

No. 10247
Name: *Scapanorhynchus texanus* (Roemer)
Formation: unknown
Locality: "Hop Brook" Holmdel, New Jersey, USA
Age: Upper Cretaceous (Middle Maastrichtian)
Illustrate: Plate 33(10247a~h)

No. 10248
Name: *Scapanorhynchus texanus* (Roemer)
Formation: Merchantville Fm.
Locality: Spoil banks, Chesapeake & Delaware Canal, St. Georges, Delaware, USA
Age: Upper Cretaceous
Illustrate: Plate 32(10248a,b),33(10248a,b)

No. 10249
Name: *Scapanorhynchus texanus* (Roemer)
Formation: Navesink - Mt. Laurel
Locality: Chesapeake & Delaware Canal, St. Georges, Delaware, USA
Age: Upper Cretaceous
Illustrate: Plate 33

No. 10250
Name: *Scapanorhynchus texanus* (Roemer)
Formation: Taylor Marl
Locality: N. Sulphur River, Ladonia, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 33(10250a~d)

No. 10251
Name: *Scapanorhynchus* sp. (vertebral centrum)
Formation: Merchantville Fm.
Locality: St. Georges, Delaware, USA
Age: Upper Cretaceous
Illustrate: Case (1973) p.53,fig.222

No. 10252
Name: *Scapanorhynchus* sp. & *Squalicorax* sp.
Formation: Greenhorn L/S Fm.
Locality: 1 mi. S.E. of Getmore, Kansas, USA
Age: Upper Cretaceous
Illustrate:

- No. 10253
Name: *Scapanorhynchus texanus* (Roemer)
Formation: unknown
Locality: Bettrechies, France
Age: Cretaceous (Turonian)
Illustrate: Plate 33
- No. 10254
Name: *Scapanorhynchus* sp.
Formation: unknown
Locality: L'Oued Zem, South East of Casablanca, Morocco
Age: Eocene (Landanian)
Illustrate:
- No. 10255
Name: *Scapanorhynchus* sp.
Formation: unknown
Locality: L'Oued Zem, South East of Casablanca, Morocco
Age: Eocene (Landanian)
Illustrate:
- No. 10256
Name: *Scapanorhynchus texanus* (Roemer)
<Mitsukurina>
Formation: Navesink (derived)
Locality: Dug out of Ancient River Channel in Flood Plain, Big Brook, Marlboro, New Jersey, USA
Age: Upper Cretaceous (Middle Maastrichtian)
Illustrate: Plate 33(10256a,b)
- No. 10257
Name: *Scapanorhynchus* sp.
Formation: Niobrara Fm. Tempas Member Limestone
Locality: Morrison, Colorado, USA
Age: Upper Cretaceous
Illustrate: Plate 33
- No. 10258
Name: *Scapanorhynchus texanus* (Roemer)
Formation: unknown
Locality: Irrigation Pond Buttonwood Farm, near Marlboro, at Herbert's Corner, off Rt.520,Bradevelt, New Jersey, USA
Age: Upper Cretaceous (Middle Maastrichtian)
Illustrate: Plate 33(10258a,b)
- No. 10259
Name: *Scapanorhynchus* sp.
Formation: South Basque Fm. (Eagle Ford Shale)
Locality: McGregor, Texas, USA
Age: Upper Cretaceous
Illustrate:
- No. 10260
Name: *Scapanorhynchus* sp.
Formation: Green Horn Limestone Fm.
Locality: West of Newcastle, Eastern Wyoming, USA
Age: Upper Cretaceous
Illustrate: Plate 33
- No. 10261
Name: *Scapanorhynchus* sp.
Formation: Eagle Foul Shale
Locality: At Arcadia park & Cockerell Hill Rd. Dallas County, Texas, USA
Age: Upper Cretaceous
Illustrate:
- No. 10262
Name: *Scapanorhynchus texanus* (Roemer)
Formation: Tombigbee Sand Member, Eutaw Fm.
Locality: Barton's Bluff, West Point, Mississippi, USA
Age: Upper Cretaceous
Illustrate: Plate 33(10262a,b)
- No. 10263
Name: *Scapanorhynchus* sp.
Formation: Niobrara Fm.
Locality: Mitchell, South Dakota, USA
Age: Upper Cretaceous
Illustrate: Plate 33(10263a,b)
- No. 10264
Name: *Scapanorhynchus* sp.
Formation: Austin Chalk or Eagle Ford Shale
Locality: On Edge of Lake Texhoma, S.W. of Pottsboro, Texas, USA
Age: Upper Cretaceous
Illustrate:
- No. 10265
Name: *Scapanorhynchus* sp.
Formation: Merchantville Fm.
Locality: Maple Shade, Old Graham Brickyard, New Jersey, USA
Age: Upper Cretaceous
Illustrate: Plate 33(10265a,b)
- No. 10266
Name: *Scapanorhynchus* sp.
Formation: unknown
Locality: 13 miles N.W. of Alden, Kansas, USA
Age: Early Cretaceous
Illustrate:
- No. 10267
Name: *Scapanorhynchus texanus* (Roemer)
Formation: unknown
Locality: Wilson Farm, Allentown, New Jersey, USA (Irrigation Pond dredgings)
Age: Upper Cretaceous
Illustrate: Plate 33
- No. 10268
Name: *Scapanorhynchus texanus* (Roemer)
Formation: Merchantville ? or Woodbury clay.
Locality: Chesapeake & Delaware Canal, St.Georges, Delaware, USA
Age: Upper Cretaceous
Illustrate: Plate 33(10268a,b)

- No. 10269
Name: *Scapanorhynchus texanus* (Roemer)
Formation: Navesink (derived)
Locality: Tributary Parallel to Ramanesson Brook opposite the Old Mill & waterfall in the Big Meadow on Harding Prop., New Jersey, USA
Age: Upper Cretaceous
Illustrate: Plate 33(10269a,b)
- No. 10270
Name: *Carcharodon carcharias* (Linnaeus)
Formation: unknown
Locality: Port Royal, South Carolina, USA
Age: Miocene
Illustrate: Plate 33
- No. 10271
Name: *Carcharodon carcharias* (Linnaeus)
Formation: unknown
Locality: Intracoastal waterway near Myrtle Beach, South Carolina, USA
Age: Cretaceous - Miocene ?
Illustrate: Plate 33(10271a,b)
- No. 10272
Name: *Carcharodon carcharias* (Linnaeus)
Formation: Sisquoc Fm.
Locality: Orcutt, California, USA
Age: Miocene
Illustrate: Plate 34(10272a~c)
- No. 10273
Name: *Carcharodon carcharias* (Linnaeus)
Formation: unknown
Locality: Kings Bay, Georgia, USA
Age: Miocene
Illustrate: Plate 34(10273a~d)
- No. 10274
Name: *Carcharodon* sp.
Formation: Red Crag Bed
Locality: Suffolk, England, UK
Age: Eocene
Illustrate: Plate 34
- No. 10275
Name: *Carcharodon carcharias* (Linnaeus)
Formation: unknown
Locality: I-95 Construction at White Oak, Camden Co., off Rt.17, GA., USA
Age: Miocene /Pliocene
Illustrate: Plate 33,34(10275a,b)
- No. 10276
Name: *Carcharodon carcharias* (Linnaeus)
Formation: unknown
Locality: Minnesott Beach, near Arapahoe Beach, North Carolina, USA
Age: Miocene
Illustrate: Plate 34(10276a,b)
- No. 10277
Name: *Carcharodon* sp.
Formation: Monterey Fm. ?
Locality: Camp Drake near Lake Cachuma, California, USA
Age: Miocene
Illustrate: Plate 34
- No. 10278
Name: *Carcharodon carcharias* (Linnaeus)
Formation: Hawthorne(?)
Locality: Jacksonville, Florida, USA
White shell channel cut-dredgings.
Age: Miocene
Illustrate: Plate 34(10278a~d)
- No. 10279
Name: *Carcharodon* sp.
Formation: unknown
Locality: Melkbos, Cape Province, South Africa
Age: Miocene
Illustrate: Plate 34(10279a~c)
- No. 10280
Name: *Carcharodon carcharias* (Linnaeus)
Formation: Yorktown (Duplin Marl ?)
Locality: Quarry, New Bern, North Carolina, USA
Age: Miocene
Illustrate: Plate 34
- No. 10281
Name: *Isurus hastalis* (Agassiz)
Formation: unknown
Locality: Port Royal, South Carolina, USA
Age: Miocene
Illustrate: Plate 35(10281a~c)
- No. 10282
Name: *Isurus* sp.
Formation: Lédien
Locality: Balegem, Belgium
Age: Eocene
Illustrate: Plate 37
- No. 10283
Name: *Isurus* sp.
Formation: Peedie Fm.
Locality: Rosehill, North Carolina, USA
Age: Tertiary
Illustrate: Plate 37(10283a,b)
- No. 10284
Name: *Isurus praecursor* (Leriche)
Formation: Castle Hayne Fm.
Locality: Rosehill, North Carolina, USA
Age: Eocene (Ypresian ?)
Illustrate: Plate 36(10284a~c)
- No. 10285
Name: *Isurus* sp.
Formation: C2 Phosphate Bed Mid Globigerina Limestone.
Locality: Gnejna valley, Island of Malta
Age: Miocene
Illustrate: Plate 23(10285a~c)

No. 10286
 Name: *Isurus macrorhiza* Pictet & Campiche
 Formation: Cambridge Greensand
 Locality: Mill Road Cementworks, Cambridge,
 England, UK
 Age: Upper Cretaceous
 Illustrate: Plate 37(10286a,b)

No. 10287
 Name: *Isurus hastalis* (Agassiz)
 Formation: unknown
 Locality: Kallo, Belgium
 Age: Miocene
 Illustrate: Plate 34(10287a~c)

No. 10288
 Name: *Isurus hastalis* (Agassiz)
 Formation: unknown
 Locality: Kings Bay, Georgia, USA
 Age: Miocene
 Illustrate: Plate 36(10288a,b)

No. 10289
 Name: *Isurus hastalis* (Agassiz)
 Formation: Santa Margarita Fm.
 Locality: Templeton, California, USA
 Age: Miocene
 Illustrate: Plate 34(10289a~c)

No. 10290
 Name: *Isurus praecursor* (Leriche)
 Formation: Eocene Material Castle Hayne Fm.
 Locality: Superior Stone x Halfway Between
 Warsaw & Magnolia, North Carolina,
 USA
 Age: Eocene
 Illustrate: Plate 36(10290a,b)

No. 10291
 Name: *Isurus hastalis* (Agassiz)
 Formation: Red Crag Bed
 Locality: Suffolk, England, UK
 Age: Eocene
 Illustrate: Plate 36

No. 10292
 Name: *Isurus hastalis* (Agassiz)
 Formation: Santee Marl
 Locality: Harleyville, South Carolina, USA
 Age: Eocene
 Illustrate: Plate 34(10292a~c)

No. 10293
 Name: *Isurus hastalis* (Agassiz)
 Formation: unknown
 Locality: I-95 Construction at White Oak,
 Camden Co., off Rt.17, GA., USA
 Age: Miocene/Pliocene
 Illustrate: Plate 35(10293a~d)

No. 10294
 Name: *Isurus hastalis* (Agassiz)
 Formation: unknown
 Locality: "A"Bank of Brunswick River, Glynn Co.,
 near Sydney Lanier, Brige off of Rt. 17, GA.,
 USA
 Age: Miocene /Pliocene
 Illustrate: Plate 36(10294a~c)

No. 10295
 Name: *Isurus hastalis* (Agassiz)
 Formation: Calvert Fm.
 Locality: Potomac River, Charles County, Maryland,
 USA
 Age: Miocene
 Illustrate:

No. 10296
 Name: *Isurus hastalis* (Agassiz)
 Formation: Hawthorne Fm. ?
 Locality: Edisto Beach, South Carolina, USA
 Age: Miocene
 Illustrate:

No. 10297
 Name: *Isurus* sp.
 Formation: Hawthorne Fm.
 Locality: Murrell's inlet, Garden city, South Carolina,
 USA
 Age: Miocene
 Illustrate:

No. 10298
 Name: *Isurus* sp.
 Formation: Vascos Fm.
 Locality: Scotts Valley, California, USA
 Age: Miocene
 Illustrate: Plate 37(10298a,b)

No. 10299
 Name: *Isurus* sp.
 Formation: Temblor Fm.
 Locality: Cuyama, California, USA
 Age: Miocene
 Illustrate: Plate 37

No. 10300
 Name: *Isurus* sp.
 Formation: Kirkwood Fm.
 Locality: Mingamahone Brook near Camp
 Houseman, Hurley Pond Rd.
 & Rts. 524-547 Farmingdale,
 New Jersey, USA
 Age: Miocene
 Illustrate: Plate 37

No. 10301
 Name: *Isurus planus* (Agassiz)
 Formation: Temblor Fm.
 Locality: Poso Creek near Woody, California, USA
 Age: Miocene
 Illustrate: Plate 23(10301a~h)

- No. 10302
Name: *Isurus hastalis* (Agassiz)
Formation: unknown
Locality: Deloan, Netherlands
Age: Miocene
Illustrate: Plate 36(10302a~d)
- No. 10303
Name: *Isurus* sp.
Formation: Hawthorne Fm. ?
Locality: Giant Portland Quarry, South Carolina, USA
Age: Miocene
Illustrate: Plate 37(10303a,b)
- No. 10304
Name: *Isurus* sp.
Formation: Monterey Fm. ?
Locality: Camp Drake near Lake Cachuma, California, USA
Age: Miocene
Illustrate: Plate 37(10304a,b)
- No. 10305
Name: *Isurus hastalis* (Agassiz)
Formation: Hawthorne(?)
Locality: White shell channel cut-dredgings, Jacksonville, Florida, USA
Age: Miocene
Illustrate: Plate 36(10305a~c)
- No. 10306
Name: *Isurus* sp.
Formation: unknown
Locality: Melkbos, Cape Province, South Africa
Age: Miocene
Illustrate: Plate 37
- No. 10307
Name: *Isurus hastalis* (Agassiz)
Formation: Pungo River Fm.
Locality: Lee Creek Mine, Aurora, North Carolina, USA
Age: Middle Miocene
Illustrate: Plate 36(10307a~c)
- No. 10308
Name: *Isurus* sp.
Formation: unknown
Locality: Boom, Belgium
Age: Pliocene
Illustrate: Plate 37(10308a,b)
- No. 10309
Name: *Isurus* sp.
Formation: Pungo River Marl Fm.
Locality: T.G.S., Lee Creek, North Carolina, USA
Age: Middle Miocene
Illustrate: Plate 37
- No. 10310
Name: *Isurus hastalis* (Agassiz)
Formation: Yorktown (Duplin Marl ?)
Locality: Quarry, New Bern, North Carolina, USA
Age: Miocene
Illustrate: Plate 36(10310a,b)
- No. 10311
Name: *Isurus* sp.
Formation: unknown
Locality: Venice Beach, Florida, USA
Age: Miocene
Illustrate: Plate 37(10311a,b)
- No. 10312
Name: *Isurus* sp.
Formation: unknown
Locality: Savannah, Georgia, USA
Age: Miocene
Illustrate:
- No. 10313
Name: *Lamna* sp.
Formation: Pungo River Marl Fm.
Locality: Aurora, North Carolina, USA
Age: Middle Miocene (Helvetian)
Illustrate: Plate 37
- No. 10314
Name: *Xiphodolamia ensis* Leidy
Lower Jaw anterior tooth
Formation: Shark River Marl Fm.
Locality: Shark River, Neptune, New Jersey, USA
Age: Early Eocene (Ypresian)
Illustrate: Plate 37
- No. 10315
Name: *Cretodus* sp.
Formation: unknown
Locality: Spoil Banks, C & D, Canal, St. Georges, Delaware, USA
Age: Miocene
Illustrate: Plate 37
- No. 10316
Name: *Cretodus* sp.
Formation: unknown
Locality: L'Oued Zem, South East of Casablanca, Morocco
Age: Eocene (Landanian)
Illustrate:
- No. 10317
Name: *Cretodus (Plicatolamna) arcuata* (Woodward)
Formation: Navesink (derived)
Locality: Dug out of Ancient River Channel in Flood Plain, Big Brook, Marlboro, New Jersey, USA
Age: Upper Cretaceous (Middle Maastrichtian)
Illustrate: Plate 37(10317a~c)
- No. 10318
Name: *Cretodus (Plicatolamna) arcuata* (Woodward)
Formation: unknown
Locality: Obourg, Belgium
Age: Upper Cretaceous
Illustrate: Plate 37(10318a,b)

- No. 10319
Name: *Cretodus arcuata* (Woodward)
Formation: Navesink Fm.
Locality: Marlboro, New Jersey, USA
Age: Upper Cretaceous
Illustrate: Plate 37
- No. 10320
Name: *Cretodus (Plicatolamna) arcuata*
(Woodward)
Formation: unknown
Locality: Irrigation Pond Buttonwood Farm,
near Marlboro, at Herbert's Corner,
off Rt.520,Bradevelt, New Jersey, USA
Age: Upper Cretaceous (Middle Maastrichtian)
Illustrate: Plate 37(10320a,b)
- No. 10321
Name: *Cretodus* sp.
Formation: Chalk
Locality: Kent, England, UK
Age: Upper Cretaceous
Illustrate: Plate 37
- No. 10322
Name: *Cretodus* sp.
Formation: Eagle Ford Shale
Locality: Austin, Texas, USA
Age: Upper Cretaceous
Illustrate:
- No. 10323
Name: *Cretodus* sp.
Formation: Uppermost Woodbine Fm.
Locality: Tarrant Co., Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 37
- No. 10324
Name: *Cretodus arcuata* (Woodward)
Formation: Merchantville ? or Woodbury clay.
Locality: Chesapeake & Delaware Canal,
St.Georges, Delaware, USA
Age: Upper Cretaceous
Illustrate: Plate 37(10324a,b)
- No. 10325
Name: *Cretodus arcuata* (Woodward)
Formation: Navesink (derived)
Locality: Tributary Parallel to Ramanesson Brook
opposite the Old Mill & waterfall
in the Big Meadow on Harding Property
(Hop Brook),New Jersey, USA
Age: Upper Cretaceous
Illustrate: Plate 37
- No. 10326
Name: *Plicatolamna (Cretodus) arcuata*
(Woodward)
Formation: Mesaverde Fm.
Locality: Worland, Wyoming, USA
Age: Upper Cretaceous (Late Campanian)
Illustrate: Plate 37(10326a,b)
- No. 10327
Name: *Plicatolamna (Cretodus) arcuata* (Woodward)
Formation: Navesink Fm.
Locality: Holmdel, New Jersey, USA
Age: Upper Cretaceous (Middle Maastrichtian)
Illustrate: Plate 37(10327a,b)
- No. 10328
Name: *Cretolamna appendiculata* (Agassiz)
Formation: unknown
Locality: Spoil Banks, C & D, Canal, St.Georges,
Delaware, USA
Age: Miocene
Illustrate:
- No. 10329
Name: *Cretolamna* sp.
Formation: Peedie Fm.
Locality: Rosehill, North Carolina, USA
Age: Upper Cretaceous
Illustrate: Plate 38
- No. 10330
Name: *Cretolamna biauriculata*
var. *C. maroccana* (Arambourg)
Formation: unknown
Locality: Khouribga, Ouled Abdoun Basin, Morocco
Age: Cretaceous
Illustrate: Plate 38(10330a,b)
- No. 10331
Name: *Cretolamna caraibaea*
var. *C. africana* (Darteville & Casier)
Formation: unknown
Locality: Morocco
Age: Upper Cretaceous (Maastrichtian)
Illustrate: Plate 38(10331a,b)
- No. 10332
Name: *Cretolamna woodwardi* Herman
Formation: Cambridge Greensand
Locality: Millroad Cementworks, Cambridge, England, UK
Age: Upper Cretaceous (Albian ?)
Illustrate: Plate 38(10332a,b)
- No. 10333
Name: *Cretolamna appendiculata* (Agassiz)
Formation: Cambridge Greensand
Locality: Millroad Cementworks, Cambridge, England, UK
Age: Upper Cretaceous
Illustrate: Plate 37(10333a-c)
- No. 10334
Name: *Cretolamna sulcata* (Geinitz)
Formation: Uppermost Woodbine Fm.
Locality: Tarrant Co., Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 38
- No. 10335
Name: *Cretolamna appendiculata* (Agassiz)
Formation: Upper Chalk (Mucronata zone)
Locality: Cotton Grove, Norwich, Norfolk, England, UK
Age: Cretaceous
Illustrate: Plate 37

- No. 10336
Name: *Cretolamna appendiculata* (Agassiz)
Formation: Chalk Beds
Locality: Ruxley, Kent, England, UK
Age: Cretaceous
Illustrate: Plate 37(10336a,b)
- No. 10337
Name: *Cretolamna biauriculata* (Wanner)
Formation: Peedie Fm.
Locality: Rosehill, North Carolina, USA
Age: Upper Cretaceous (Maastrichtian)
Illustrate: Plate 38(10337a,b)
- No. 10338
Name: *Serratolamna serrata* (Agassiz)
Formation: Peedie Fm.
Locality: Rosehill, North Carolina, USA
Age: Upper Cretaceous (Maastrichtian)
Illustrate: Plate 38(10338a,b)
- No. 10339
Name: *Cretolamna* sp.
Formation: unknown
Locality: Morocco
Age: Upper Cretaceous
Illustrate: Plate 38
- No. 10340
Name: *Cretolamna appendiculata* (Agassiz)
Formation: Taylor Marl
Locality: N.Sulphur River, Ladonia, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 37(10340a,b)
- No. 10341
Name: *Cretolamna appendiculata* (Agassiz)
Formation: unknown
Locality: Bettrechies, France
Age: Cretaceous (Turonian)
Illustrate: Plate 38
- No. 10342
Name: *Cretolamna appendiculata* (Agassiz)
Formation: unknown
Locality: L'Oued Zem, South East of Casablanca, Morocco
Age: Eocene (Landanian)
Illustrate:
- No. 10343
Name: *Serratolamna serrata* (Agassiz)
Formation: unknown
Locality: Khouribga, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 38
- No. 10344
Name: *Cretolamna appendiculata* (Agassiz)
Formation: unknown
Locality: Khouribga, Morocco
Age: Eocene
Illustrate: Plate 38
- No. 10345
Name: *Cretolamna* sp.
Formation: unknown
Locality: Processing Plant 4 mi. N. of Rosehill, North Carolina, USA
Age: Upper Cretaceous
Illustrate:
- No. 10346
Name: *Cretolamna* sp.
Formation: unknown
Locality: Khouribga, Morocco
Age: Eocene (Ypresian)
Illustrate:
- No. 10347
Name: *Cretolamna* sp.
Formation: unknown
Locality: Crownsville, Maryland, USA
Age: Upper Middle Eocene
Illustrate:
- No. 10348
Name: *Cretolamna* sp.
Formation: unknown
Locality: Kallo Bei Antwerpen, Belgium
Age: Miocene
Illustrate: Plate 38
- No. 10349
Name: *Cretolamna appendiculata* (Agassiz)
Formation: Navesink (derived)
Locality: Dug out of Ancient River Channel in Flood Plain, Big Brook, Marlboro, New Jersey, USA
Age: Upper Cretaceous (Middle Maastrichtian)
Illustrate: Plate 38
- No. 10350
Name: *Serratolamna serrata* (Agassiz)
Formation: unknown
Locality: Oued-Zem, Morocco
Age: Cretaceous (Maastrichtian)
Illustrate:
- No. 10351
Name: *Cretolamna* sp.
Formation: unknown
Locality: Beni-Idir, Morocco
Age: Cretaceous (Maastrichtian)
Illustrate:
- No. 10352
Name: *Cretolamna* sp.
Formation: unknown
Locality: 13 km so. from Khouribga on the road to Fikh-Ben-Salah, Morocco
Age: Cretaceous (Maastrichtian)
Illustrate: Plate 38

No. 10353
 Name: *Serratolamna serrata* (Agassiz)
 Formation: unknown
 Locality: 13 km so. from Khouribga on the road
 to Fikh-Ben-Salah, Morocco
 Age: Cretaceous (Maastrichtian)
 Illustrate: Plate 38

No. 10354
 Name: *Serratolamna serrata* (Agassiz)
 Formation: unknown
 Locality: Beni-Idir, Morocco
 Age: Cretaceous (Maastrichtian)
 Illustrate: Plate 38(10354a,b)

No. 10355
 Name: *Cretolamna biauriculata maroccana*
 Arambourg
 Formation: unknown
 Locality: Beni-Idir, Morocco
 Age: Cretaceous (Maastrichtian)
 Illustrate: Plate 38(10355a,b)

No. 10356
 Name: *Cretolamna* sp. (Mixed)
 Formation: unknown
 Locality: Beni-Idir, Morocco
 Age: Cretaceous (Maastrichtian)
 Illustrate: Plate 38(10356a,b)

No. 10357
 Name: *Cretolamna* sp.
 Formation: unknown
 Locality: Below Dam, Waco, Texas, USA
 Age: Upper Cretaceous (Coniacian)
 Illustrate: Plate 38

No. 10358
 Name: *Serratolamna serrata* (Agassiz)
 Formation: unknown
 Locality: Foum Tizi, Morocco
 Age: Upper Cretaceous (Maastrichtian)
 Illustrate: Plate 38

No. 10359
 Name: *Cretolamna biauriculata*
 var. *C. maroccana* Arambourg
 Formation: unknown
 Locality: Foum Tizi, Morocco
 Age: Upper Cretaceous (Maastrichtian)
 Illustrate: Plate 38

No. 10360
 Name: *Cretolamna appendiculata* (Agassiz)
 Formation: unknown
 Locality: Irrigation Pond Buttonwood Farm,
 near Marlboro, at Herbert's Corner,
 off Rt.520,Bradevelt, New Jersey, USA
 Age: Upper Cretaceous (Middle Maastrichtian)
 Illustrate: Plate 38(10360a,b)

No. 10361
 Name: *Cretolamna* sp.
 Formation: Taylor Marl Fm. (Brownstown Marl ?)
 Locality: Bell Co., Sparks, Texas, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10362
 Name: *Cretolamna* sp.
 Formation: Green Horn Limestone Fm.
 Locality: Eastern Wyoming, West of Newcastle, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10363
 Name: *Cretolamna* sp.
 Formation: Eagle Foul Shale
 Locality: At Arcadia park & Cockerell Hill Rd.
 Dallas County, Texas, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10364
 Name: *Cretolamna appendiculata* (Agassiz)
 Formation: Tombigbee Sand Member, Eutaw Fm.
 Locality: Barton's Bluff, West Point, Mississippi, USA
 Age: Upper Cretaceous
 Illustrate: Plate 38(10364a,b)

No. 10365
 Name: *Cretolamna* sp.
 Formation: Niobrara Fm.
 Locality: Mitchell, South Dakota, USA
 Age: Upper Cretaceous
 Illustrate: Plate 38

No. 10366
 Name: *Cretolamna* sp.
 Formation: Austin Chalk or Eagle Ford Shale
 Locality: On Edge of Lake Texhoma, S.W. of Pottsboro,
 Texas, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10367
 Name: *Cretolamna* sp.
 Formation: Chalk Beds
 Locality: Dunton Green, Kent, England, UK
 Age: Upper Cretaceous
 Illustrate: Plate 38

No. 10368
 Name: *Cretolamna appendiculata* (Agassiz)
 Formation: Navesink Fm. ?
 Locality: Shipley Farm, St. Georges, Delaware,
 USA
 Age: Upper Cretaceous
 Illustrate: Plate 38

No. 10369
 Name: *Cretolamna* sp.
 Formation: Creyson Fm. Washita Group,
 Comatichfan Series.
 Locality: Denton Co., Texas, USA
 Age: Lower Cretaceous
 Illustrate:

No. 10370
 Name: *Cretolamna* sp.
 Formation: H.orbignyi Subzone (Gault Clay)
 Locality: Ford Place, Kent, England, UK
 Age: Upper Cretaceous
 Illustrate:

No. 10371
 Name: *Cretolamna* sp.
 Formation: Carlisle Shale
 Locality: Rawlins, Wyoming, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10372
 Name: *Cretolamna* sp.
 Formation: Essener Greensand
 Locality: Muhlheim, Germany
 Age: Upper Cretaceous (Cenomanian)
 Illustrate: Plate 38

No. 10373
 Name: *Cretolamna* sp.
 Formation: Frontier Fm. (Carlile Shale)
 Locality: Nowl, Wyoming, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10374
 Name: *Cretolamna* sp.
 Formation: Duck Creek Limestone Fm.
 Locality: Crayson County, Texas, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10375
 Name: *Cretolamna appendiculata* (Agassiz)
 Formation: Navesink Fm.
 Locality: Nutt Farm, New Jersey, USA
 Age: Upper Cretaceous
 Illustrate: Plate 38

No. 10376
 Name: *Serratolamna serrata* (Agassiz)
 Formation: unknown
 Locality: Oued-Zem, Morocco
 Age: Upper Cretaceous (Maastrichtian)
 Illustrate: Plate 38

No. 10377
 Name: *Cretolamna biauriculata*
 var. *C. maroccana* (Arambourg)
 Formation: unknown
 Locality: Tranchee R.E.I., Sidi Daoui, Morocco
 Age: Upper Cretaceous (Maastrichtian)
 Illustrate:

No. 10378
 Name: *Cretolamna* sp.
 Formation: unknown
 Locality: Morocco
 Age: Upper Cretaceous
 Illustrate: Plate 38

No. 10379
 Name: *Cretolamna* sp.
 Formation: Carlisle Shale
 Locality: Edgemont, South Dakota, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10380
 Name: *Cretolamna* sp.
 Formation: Carlile Shale
 Locality: Weston County, Upton, Wyoming, USA
 Age: Cretaceous
 Illustrate:

No. 10381
 Name: *Cretolamna* sp.
 Formation: Carlisle Shale
 Locality: Upton, Wyoming, USA
 Age: Cretaceous
 Illustrate:

No. 10382
 Name: *Cretolamna* sp.
 Formation: unknown
 Locality: Beni-Idir, Morocco
 Age: Palaeocene (Montian)
 Illustrate: Plate 26(10382a~t)

No. 10383
 Name: *Cretolamna aschersoni* (Stromer)
 Formation: unknown
 Locality: Metlaoui, Tunisia
 Age: Eocene (Ypresian)
 Illustrate: Plate 38(10383a,b)

No. 10384
 Name: *Cretolamna* sp.
 Formation: unknown
 Locality: Oued-Zem, Morocco
 Age: Eocene (Ypresian)
 Illustrate: Plate 38(10384a,b)

No. 10385
 Name: *Cretolamna* sp.
 Formation: unknown
 Locality: Yousseoufia (Louis Gentil) Stockpile
 in Town at the Plant, Morocco
 Age: Eocene (Montian & Ypresian)
 Illustrate: Plate 38

No. 10386
 Name: *Cretolamna* sp.
 Formation: Aquia Fm. Piscataway member
 Locality: Smith's point, Potomac river
 near Liverpool PT., MD., USA
 Age: Eocene
 Illustrate: Plate 38(10386a,b)

No. 10387
 Name: *Serratolamna serrata* (Agassiz)
 Formation: Eocene Material Castle Hayne Fm.
 Locality: Superior Stone X Halfway Between
 Warsaw & Magnolia, North Carolina,
 USA
 Age: Upper Cretaceous
 Illustrate: Plate 38

No. 10388
 Name: *Cretolamna* sp.
 Formation: Eocene Material Castle Hayne Fm.
 Locality: Superior Stone X Halfway Between
 Warsaw & Magnolia, North Carolina,
 USA
 Age: Eocene
 Illustrate: Plate 38

No. 10389
 Name: *Cretolamna* sp.
 Formation: unknown
 Locality: Chercq, Belgium
 Age: Eocene (Bruxellien)
 Illustrate: Plate 38

No. 10390
 Name: *Cretolamna* sp.
 Formation: unknown
 Locality: Medford, New Jersey, USA
 Age: Eocene
 Illustrate:

No. 10391
 Name: *Cretolamna aschersoni* (Stromer)
 Formation: unknown
 Locality: Abandoned Trench at Entrance to Old
 Recette, Oued-Zem, Morocco
 Age: Eocene (Ypresian)
 Illustrate: Plate 38

No. 10392
 Name: *Cretolamna appendiculata* (Agassiz)
 Formation: Merchantville ? or Woodbury clay.
 Locality: Chesapeake & Delaware Canal,
 St. Georges, Delaware, USA
 Age: Upper Cretaceous
 Illustrate: Plate 38

No. 10393
 Name: *Cretolamna* sp.
 Formation: Santon Pinniformis Schichten
 Locality: Weiner Esch bei Ochtrup, Germany
 Age: Upper Cretaceous
 Illustrate:

No. 10394
 Name: *Cretolamna aschersoni* (Stromer)
 Formation: unknown
 Locality: Khouribga, Morocco
 Age: Eocene
 Illustrate: Plate 38(10394a,b)

No. 10395
 Name: *Cretolamna* sp.
 Formation: unknown
 Locality: Khouribga, Morocco
 Age: Palaeocene
 Illustrate: Plate 38(10395a,b)

No. 10396
 Name: *Cretolamna* sp.
 Formation: unknown
 Locality: South Carolina, USA
 Age: Eocene
 Illustrate:

No. 10397
 Name: *Cretolamna* sp.
 Formation: Peedee
 Locality: Rosehill, Duplin county, North Carolina,
 USA
 Age: Upper Cretaceous (Maastrichtian)
 Illustrate: Plate 38(10397a,b)

No. 10398
 Name: *Cretolamna appendiculata* (Agassiz)
 Formation: Shark River Marl Fm.
 Locality: Neptune, New Jersey, USA
 Age: Eocene
 Illustrate: Plate 38

No. 10399
 Name: *Cretoxyrhina mantelli* (Agassiz)
 Formation: Graneros Shale ?
 Locality: Fairport, Kansas, USA
 Age: Upper Cretaceous
 Illustrate: Plate 38

No. 10400
 Name: *Protolamna* sp.
 Formation: Paw Paw Fm.
 Locality: Few miles north of Denton, Texas, USA
 Age: Lower Cretaceous (Upper Albian)
 Illustrate:

No. 10401
 Name: *Carcharocles* cf. *C. auriculatus* (Blainville)
 Formation: unknown
 Locality: Port Royal, South Carolina, USA
 Age: Miocene
 Illustrate: Plate 2(1),18

No. 10402
 Name: *Carcharocles* sp.
 Formation: unknown
 Locality: Brickworks at Rumst, Belgium
 Age: Miocene
 Illustrate:

No. 10403
 Name: *Carcharocles auriculatus* (Blainville)
 Formation: Duplin Marl
 Locality: Rosehill, North Carolina, USA
 Age: Miocene (Tortonian)
 Illustrate: Plate 39

No. 10404
 Name: *Carcharocles* sp.
 Formation: C2 Phosphate Bed Mid Globigerina
 Limestone.
 Locality: Gnejna valley, Island of Malta
 Age: Miocene
 Illustrate: Plate 39

No. 10405
 Name: *Carcharocles angustidens* (Agassiz)
 Formation: unknown
 Locality: Chattahoochie, Appalachicola & Flint River
 Confluence, Gadsden Co., Florida, USA
 Age: Miocene
 Illustrate: Plate 25(10405a,b)

- No. 10406
Name: *Carcharocles megalodon* (Agassiz)
Formation: unknown
Locality: Kings Bay, Georgia, USA
Age: Miocene
Illustrate:
- No. 10407
Name: *Carcharocles megalodon* (Agassiz)
Formation: Shark tooth hill
Locality: Bakersfield, California, USA
Age: Middle Miocene (Helevetian)
Illustrate: Plate 19
- No. 10408
Name: *Carcharocles* sp.
Formation: Vincentown fm.
Locality: Church & Bayrestown Rd., Medford, New Jersey, USA
Age: Eocene
Illustrate:
- No. 10409
Name: *Carcharocles* sp.
Formation: unknown
Locality: Sankt Pankraz near Hanunsberg, Salzburg, Austria
Age: Eocene (Lutetian ?)
Illustrate: Plate 39
- No. 10410
Name: *Carcharocles* sp.
Formation: Santee Marl
Locality: Harleyville, South Carolina, USA
Age: Eocene
Illustrate:
- No. 10411
Name: *Carcharocles* sp.
Formation: Ocala L/S
Locality: Gainesville, Florida, USA
Age: Eocene
Illustrate:
- No. 10412
Name: *Carcharocles megalodon* (Agassiz)
Formation: unknown
Locality: "A"Bank of Brunswick River, Glynn Co., near Sydney Lanier, Brige off of Rt. 17, GA., USA
Age: Miocene /Pliocene
Illustrate:
- No. 10413
Name: *Carcharocles* sp.
Formation: unknown
Locality: Manganese Mine on the Island of Cuba
Age: Miocene ?
Illustrate:
- No. 10414
Name: *Carcharocles* sp.
Formation: Kirkwood Fm.
Locality: Mingamahone Brook near Camp Houseman, Hurley Pond Rd. & Rts. 524-547 Farmingdale, New Jersey, USA
Age: Miocene
Illustrate: Plate 39
- No. 10415
Name: *Carcharocles* sp.
Formation: Temblor Fm.
Locality: Poso Creek near Woody, California, USA
Age: Miocene
Illustrate: Plate 39
- No. 10416
Name: *Carcharocles megalodon* (Agassiz)
Formation: Hawthorne Fm.
Locality: Rt.41 at Boat yard off Wando River Bridge N.W. of Mt. Pleasant, South Carolina, USA
Age: Miocene
Illustrate:
- No. 10417
Name: *Carcharocles megalodon* (Agassiz)
Formation: unknown
Locality: Daniel Island Dike in Charleston Harbor and Detyens Shipyard dredged fill at Cainhoy, South Carolina, USA
Age: Miocene
Illustrate:
- No. 10418
Name: *Carcharocles* sp.
Formation: Hawthorne Fm. ?
Locality: Giant Portland Quarry, South Carolina, USA
Age: Miocene
Illustrate: Plate 39
- No. 10419
Name: *Carcharocles megalodon* (Agassiz)
Formation: unknown
Locality: Savannah, Georgia, USA
Age: Miocene
Illustrate:
- No. 10420
Name: *Carcharocles megalodon* (Agassiz)
Formation: Pungo River Fm.
Locality: Lee Creek Mine, Aurora, North Carolina, USA
Age: Middle Miocene
Illustrate:
- No. 10421
Name: *Carcharocles* sp.
Formation: unknown
Locality: Newport Bay, California, USA
Age: Pliocene
Illustrate:

No. 10422
 Name: *Carcharocles megalodon* (Agassiz)
 Formation: Yorktown (Duplin Marl ?)
 Locality: Quarry, New Bern, North Carolina, USA
 Age: Miocene
 Illustrate: Plate 19(10422a-h)

No. 10423
 Name: *Carcharocles megalodon* (Agassiz)
 Formation: unknown
 Locality: Steendorp, Belgium
 Age: Miocene
 Illustrate: Plate 1(14,15),18(10423a,b)

No. 10424
 Name: *Carcharocles* sp.
 Formation: Shark River Marl Fm.
 Locality: Neptune, New Jersey, USA
 Age: Eocene
 Illustrate:

No. 10425
 Name: *Carcharocles megalodon* (Agassiz)
 Formation: unknown
 Locality: Venice Beach, Florida, USA
 Age: Miocene
 Illustrate: Plate 39

No. 10426
 Name: *Otodus obliquus* Agassiz
 Formation: unknown
 Locality: Shark River, New Jersey, USA
 Age: Eocene
 Illustrate:

No. 10427
 Name: *Otodus obliquus* Agassiz
 Formation: Manasquam Marl
 Locality: Shark River, New Jersey, USA
 Age: Eocene
 Illustrate: Plate 39

No. 10428
 Name: *Otodus obliquus* Agassiz
 Formation: unknown
 Locality: Suffolk, England, UK
 Age: Eocene (Reworked Miocene)
 Illustrate: Plate 39

No. 10429
 Name: *Otodus obliquus* Agassiz
 Formation: Peedee
 Locality: Rosehill, North Carolina, USA
 Age: Eocene
 Illustrate:

No. 10430
 Name: *Otodus obliquus* Agassiz
 Formation: unknown
 Locality: Crownsville, Maryland, USA
 Age: Upper Middle Eocene
 Illustrate:

No. 10431
 Name: *Otodus* sp.
 Formation: Vincentown Fm.
 Locality: Church & Eayrestown Rd.,
 Medford, New Jersey, USA
 Age: Eocene
 Illustrate:

No. 10432
 Name: *Otodus obliquus* Agassiz
 Formation: Aquia Fm.
 Locality: Fairview Beach, Osso, Virginia, USA
 Age: Eocene
 Illustrate:

No. 10433
 Name: *Otodus obliquus* Agassiz
 Formation: unknown
 Locality: Sidi-Daoui, Morocco
 Age: Eocene (Ypresian)
 Illustrate:

No. 10434
 Name: *Otodus obliquus* Agassiz
 Formation: Shark River Marl Fm.
 Locality: Neptune, New Jersey, USA
 Age: Eocene
 Illustrate:

No. 10435
 Name: *Alopias* cf. *A. vulpinus* (Bonnaterre)
 Formation: Pungo River Marl Fm.
 Locality: Lee Creek Mine, S. side of Pamlico River
 near Aurora, Beaufort Co.,
 North Carolina, USA
 Age: Middle Miocene
 Illustrate:

No. 10436
 Name: *Paranomotodon* sp.
 Formation: Taylor Marl
 Locality: N.Sulphur River, Ladonia, Texas, USA
 Age: Upper Cretaceous
 Illustrate: Plate 39

No. 10437
 Name: *Paranomotodon* sp. ?
 Formation: unknown
 Locality: Foum Tizi, Morocco
 Age: Upper Cretaceous (Maastrichtian)
 Illustrate:

No. 10438
 Name: *Paranomotodon angustidens* (Reuss)
 Formation: unknown
 Locality: Irrigation Pond Buttonwood Farm,
 near Marlboro, at Herbert's Corner,
 off Rt.520,Bradevelt, New Jersey, USA
 Age: Upper Cretaceous (Middle Maastrichtian)
 Illustrate: Plate 39

No. 10439
Name: *Pseudocorax affinis* (Münster)
Formation: unknown
Locality: Morocco
Age: Upper Cretaceous (Maastrichtian)
Illustrate:

No. 10440
Name: *Pseudocorax affinis* (Münster)
Formation: unknown
Locality: Eben, Robin-Thier, Belgium
Age: Upper Cretaceous (Upper Maastrichtian)
Illustrate: Plate 39(10440a,b)

No. 10441
Name: *Pseudocorax affinis* (Münster)
Formation: unknown
Locality: Eben-Robin-Thier, Belgium
Age: Upper Cretaceous
Illustrate:

No. 10442
Name: *Pseudocorax* sp.
Formation: unknown
Locality: Obourg, Belgium
Age: Upper Cretaceous
Illustrate:

No. 10443
Name: *Pseudocorax laevis* (Leriche)
Formation: unknown
Locality: Craie D'obourg, Belgium
Age: Upper Cretaceous
Illustrate:

No. 10444
Name: *Squalicorax pristodontus* (Agassiz)
Formation: unknown
Locality: Rt.35 Food town Circus, Middletown,
New Jersey, USA
Age: Upper Cretaceous
Illustrate:

No. 10445
Name: *Squalicorax* sp.
Formation: unknown
Locality: Senon Quedlinburg in Harz,
Germany
Age: Upper Cretaceous (Senonian ?)
Illustrate:

No. 10446
Name: *Squalicorax kaupi* (Agassiz)
Formation: Peedie Fm.
Locality: Rosehill, North Carolina, USA
Age: Upper Cretaceous (Maastrichtian)
Illustrate:

No. 10447
Name: *Squalicorax pristodontus* (Agassiz)
Formation: unknown
Locality: Morocco
Age: Cretaceous
Illustrate: Plate 40(10447a,b)

No. 10448
Name: *Squalicorax kaupi* (Agassiz)
Formation: unknown
Locality: Morocco
Age: Upper Cretaceous (Maastrichtian)
Illustrate: Plate 39

No. 10449
Name: *Squalicorax yangaensis*
(Darteville & Casier)
Formation: unknown
Locality: Morocco
Age: Upper Cretaceous (Maastrichtian)
Illustrate: Plate 40(10449a,b)

No. 10450
Name: *Squalicorax falcatus* (Agassiz)
Formation: Niobrara
Locality: Russell, Kansas, USA
Age: Upper Cretaceous
Illustrate:

No. 10451
Name: *Squalicorax falcatus* (Agassiz)
Formation: Uppermost Woodbine Fm.
Locality: Tarrant Co., Texas, USA
Age: Upper Cretaceous
Illustrate:

No. 10452
Name: *Squalicorax falcatus* (Agassiz)
Formation: Chalk (Mucronata zone)
Locality: Norwich, Norfolk, England, UK
Age: Upper Cretaceous
Illustrate:

No. 10453
Name: *Squalicorax falcatus* (Agassiz)
Formation: unknown
Locality: Strehlen Bei Dresden, Germany
Age: Upper Cretaceous (Turonian)
Illustrate:

No. 10454
Name: *Squalicorax falcatus* (Agassiz)
Formation: Niobrara Chalk Fm.
Locality: Monument, Kansas, USA
Age: Upper Cretaceous
Illustrate: Plate 39(10454a,b)

No. 10455
Name: *Squalicorax kaupi* (Agassiz)
Formation: Tinton Falls Fm.
Locality: Tinton Falls, New Jersey, USA
Age: Upper Cretaceous
Illustrate:

No. 10456
Name: *Squalicorax kaupi* (Agassiz)
Formation: Navesink (Derived)
Locality: Big Brook, Marlboro, New Jersey, USA
Age: Upper Cretaceous (Maastrichtian)
Illustrate: Plate 39

No. 10457
 Name: *Squalicorax kaupi* (Agassiz)
 Formation: Navesink (Derived)
 Locality: Hop Brook, Holmdel, New Jersey, USA
 Age: Upper Cretaceous (Maastrichtian)
 Illustrate: Plate 39

No. 10458
 Name: *Squalicorax kaupi* (Agassiz)
 Formation: Mt. Laurel Sands
 Locality: Hop Brook, Harding Farm, Holmdel, New Jersey, USA
 Age: Upper Cretaceous (Late Campanian)
 Illustrate:

No. 10459
 Name: *Squalicorax kaupi* (Agassiz)
 Formation: Navesink Fm.
 Locality: Big Brook, Marlboro, New Jersey, USA
 Age: Upper Cretaceous (Maastrichtian)
 Illustrate: Plate 39

No. 10460
 Name: *Squalicorax kaupi* (Agassiz)
 Formation: Mt. Laurel Sands (Fm.)
 Locality: Hop Brook, Harding Farm, Holmdel, New Jersey, USA
 Age: Upper Cretaceous (Late Campanian)
 Illustrate:

No. 10461
 Name: *Squalicorax pristodontus* (Agassiz)
 Formation: Navesink Fm.
 Locality: Holmdel, New Jersey, USA
 Age: Upper Cretaceous (Middle Maastrichtian)
 Illustrate: Plate 40

No. 10462
 Name: *Squalicorax pristodontus* (Agassiz)
 Formation: Taylor Marl
 Locality: N. Sulphur River, Ladonia, Texas, USA
 Age: Upper Cretaceous
 Illustrate: Plate 40

No. 10463
 Name: *Squalicorax kaupi* (Agassiz)
 Formation: Taylor Marl
 Locality: N. Sulphur River, Ladonia, Texas, USA
 Age: Upper Cretaceous
 Illustrate: Plate 39(10463a,b)

No. 10464
 Name: *Squalicorax* sp. (Vertebral centrum)
 Formation: Niobara Chalk Fm.
 Locality: 2 mi. N. of Elkader, Kansas, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10465
 Name: *Squalicorax pristodontus* (Agassiz) and others
 Formation: Quadrata Zone
 Locality: Chalk Pit Pakdown Hill near Fareham Hants, England, UK
 Age: Upper Cretaceous (Senonian)
 Illustrate: Plate 40(10465a,b)

No. 10466
 Name: *Squalicorax* sp.
 Formation: unknown
 Locality: Processing Plant 4 mi. N. of Rosehill, North Carolina, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10467
 Name: *Squalicorax pristodontus* (Agassiz)
 Formation: Navesink (derived)
 Locality: Dug out of Ancient River Channel in Flood Plain, Big Brook, Marlboro, New Jersey, USA
 Age: Upper Cretaceous (Middle Maastrichtian)
 Illustrate: Plate 40

No. 10468
 Name: *Squalicorax kaupi* (Agassiz)
 Formation: Navesink (derived)
 Locality: Dug out of Ancient River Channel in Flood Plain, Big Brook, Marlboro, New Jersey, USA
 Age: Upper Cretaceous (Middle Maastrichtian)
 Illustrate:

No. 10469
 Name: *Squalicorax pristodontus* (Agassiz)
 Formation: unknown
 Locality: Beni-Idir, Morocco
 Age: Cretaceous (Maastrichtian)
 Illustrate: Plate 40

No. 10470
 Name: *Squalicorax pristodontus* (Agassiz)
 Formation: unknown
 Locality: 13 km so. from Khouribga on the road to Fikh-Ben-Salah, Morocco
 Age: Cretaceous (Maastrichtian)
 Illustrate:

No. 10471
 Name: *Squalicorax falcatus* (Agassiz)
 Formation: Niobrara Fm. Tempas Member Limestone
 Locality: Morrison, Colorado, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10472
 Name: *Squalicorax kaupi* (Agassiz)
 Formation: unknown
 Locality: Foum Tizi, Morocco
 Age: Upper Cretaceous (Maastrichtian)
 Illustrate: Plate 39

- No. 10473
Name: *Squalicorax pristodontus* (Agassiz)
Formation: unknown
Locality: Fom Tizi, Morocco
Age: Upper Cretaceous (Maastrichtian)
Illustrate:
- No. 10474
Name: *Squalicorax pristodontus* (Agassiz)
Formation: unknown
Locality: Eben-Emael, Belgium
Age: Upper Cretaceous
Illustrate: Plate 40
- No. 10475
Name: *Squalicorax kaupi* (Agassiz)
Formation: unknown
Locality: Obourg, Belgium
Age: Upper Cretaceous
Illustrate:
- No. 10476
Name: *Squalicorax kaupi* (Agassiz)
Formation: unknown
Locality: Irrigation Pond, Buttonwood Farm, near Marlboro, at Herbert's Corner, off Rt.520,Bradevelt, New Jersey, USA
Age: Upper Cretaceous (Middle Maastrichtian)
Illustrate:
- No. 10477
Name: *Squalicorax pristodontus* (Agassiz)
Formation: unknown
Locality: Irrigation Pond, Buttonwood Farm, near Marlboro, at Herbert's Corner, off Rt.520,Bradevelt, New Jersey, USA
Age: Upper Cretaceous (Middle Maastrichtian)
Illustrate: Plate 40
- No. 10478
Name: *Squalicorax kaupi* (Agassiz)
Formation: Taylor Marl Fm. (Brownstown Marl ?)
Locality: Bell Co., Sparks, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 39
- No. 10479
Name: *Squalicorax falcatus* (Agassiz)
Formation: South Basque Fm. (Eagle Ford Shale)
Locality: McGregor, Texas, USA
Age: Upper Cretaceous
Illustrate:
- No. 10480
Name: *Squalicorax falcatus* (Agassiz)
Formation: Green Horn Limestone Fm.
Locality: West of Newcastle, Eastern Wyoming, USA
Age: Upper Cretaceous
Illustrate:
- No. 10481
Name: *Squalicorax falcatus* (Agassiz)
Formation: Eagle Foul Shale
Locality: At Arcadia park & Cockerell Hill Rd. Dallas County, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 39
- No. 10482
Name: *Squalicorax kaupi* (Agassiz)
Formation: Tombigbee Sand Member, Eutaw Fm.
Locality: Barton's Bluff, West Point, Mississippi, USA
Age: Upper Cretaceous
Illustrate: Plate 39
- No. 10483
Name: *Squalicorax falcatus* (Agassiz)
Formation: Dakota Fm. ?
Locality: Rooney's Gulch, Colorado, USA
Age: Upper Cretaceous
Illustrate:
- No. 10484
Name: *Squalicorax pristodontus* (Agassiz)
Formation: Austin Chalk ?
Locality: Seagoville, Texas, USA
Age: Upper Cretaceous
Illustrate:
- No. 10485
Name: *Squalicorax falcatus* (Agassiz)
Formation: Eagle Ford Shale
Locality: Austin, Texas, USA
Age: Upper Cretaceous
Illustrate:
- No. 10486
Name: *Squalicorax falcatus* (Agassiz)
Formation: Austin Chalk or Eagle Ford Shale.
Locality: On Edge of Lake Texhoma, S.W. of Pottsboro, Texas, USA
Age: Upper Cretaceous
Illustrate:
- No. 10487
Name: *Squalicorax pristodontus* (Agassiz)
Formation: Navesink Fm. ?
Locality: Shipley Farm, St.Georges, Delaware, USA
Age: Upper Cretaceous
Illustrate:
- No. 10488
Name: *Squalicorax falcatus* (Agassiz)
Formation: Uppermost Woodbine Fm.
Locality: Tarrant Co., Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 39
- No. 10489
Name: *Squalicorax falcatus* (Agassiz)
Formation: Carlisle Shale
Locality: Rawlins, Wyoming, USA
Age: Upper Cretaceous
Illustrate:

- No. 10490
Name: *Squalicorax falcatus* (Agassiz)
Formation: Graneros Shale ?
Locality: Fairport, Kansas, USA
Age: Upper Cretaceous
Illustrate:
- No. 10491
Name: *Squalicorax* sp.
Formation: Essener Greensand
Locality: Muhlheim, Germany
Age: Upper Cretaceous (Cenomanian)
Illustrate:
- No. 10492
Name: *Squalicorax falcatus* (Agassiz)
Formation: Frontier Fm. (Carlile Shale)
Locality: Nowl, Wyoming, USA
Age: Upper Cretaceous
Illustrate:
- No. 10493
Name: *Squalicorax falcatus* (Agassiz)
Formation: Duck Creek Limestone Fm.
Locality: Crayson County, Texas, USA
Age: Upper Cretaceous
Illustrate:
- No. 10494
Name: *Squalicorax pristodontus* (Agassiz)
Formation: unknown
Locality: Oued-Zem, Morocco
Age: Upper Cretaceous (Maastrichtian)
Illustrate:
- No. 10495
Name: *Squalicorax pristodontus* (Agassiz)
Formation: unknown
Locality: Tranchee R.E.I., Sidi Daoui, Morocco
Age: Upper Cretaceous (Maastrichtian)
Illustrate:
- No. 10496
Name: *Squalicorax pristodontus* (Agassiz)
Formation: unknown
Locality: Morocco
Age: Upper Cretaceous
Illustrate:
- No. 10497
Name: *Squalicorax falcatus* (Agassiz)
Formation: Carlisle Shale
Locality: Edgemont, South Dakota, USA
Age: Upper Cretaceous
Illustrate:
- No. 10498
Name: *Squalicorax falcatus* (Agassiz)
Formation: Carlile Shale
Locality: Weston County, Upton, Wyoming, USA
Age: Cretaceous
Illustrate:
- No. 10499
Name: *Squalicorax* sp.
Formation: Eocene Material Castle Hayne Fm.
Locality: Superior Stone X Halfway Between Warsaw & Magnolia, North Carolina, USA
Age: Upper Cretaceous
Illustrate: Plate 40
- No. 10500
Name: *Squalicorax* sp.
Formation: Waccamaw Fm.
Locality: Surrat (Dunn) Farm, Shallow, North Carolina, USA
Age: Upper Cretaceous
Illustrate:
- No. 10501
Name: *Squalicorax* sp.
Formation: Santon Pinniformis Schichten
Locality: Weiner Esch bei Ochtrup, Germany
Age: Upper Cretaceous
Illustrate:
- No. 10502
Name: *Squalicorax* sp.
Formation: unknown
Locality: Hardivillers, France
Age: Upper Cretaceous
Illustrate:
- No. 10503
Name: *Squalicorax kaupi* (Agassiz)
Formation: Merchantville ? or Woodbury Clay.
Locality: Chesapeake & Delaware Canal, St. Georges, Delaware, USA
Age: Upper Cretaceous
Illustrate: Plate 39
- No. 10504
Name: *Squalicorax kaupi* (Agassiz)
Formation: Navesink (derived)
Locality: Tributary Parallel to Ramanesson Brook opposite the Old Mill & waterfall in the Big Meadow on Harding Property (Hop Brook), New Jersey, USA
Age: Upper Cretaceous
Illustrate:
- No. 10505
Name: *Squalicorax falcatus* (Agassiz)
Formation: unknown
Locality: Mt. Lake road Kamp Ranch, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 39(10505a,b)
- No. 10506
Name: *Squalicorax kaupi* (Agassiz)
Formation: Matawan Woodbury Clay
Locality: Matawan, New Jersey, USA
Age: Upper Cretaceous
Illustrate:

No. 10507
 Name: *Scyliorhinus brivesi* Arambourg
 Formation: unknown
 Locality: Oued-Zem, Morocco
 Age: Palaeocene (Montian)
 Illustrate:

No. 10508
 Name: *Scyliorhinus africanus* Arambourg
 Formation: unknown
 Locality: Oued Zem, Morocco
 Age: Early Eocene
 Illustrate:

No. 10509
 Name: *Scyliorhinus subulidens* Arambourg
 Formation: unknown
 Locality: Oued-Zem, Morocco
 Age: Eocene (Ypresian)
 Illustrate:

No. 10510
 Name: *Scyliorhinus* sp.
 Formation: unknown
 Locality: England, UK
 Age: Eocene
 Illustrate:

No. 10511
 Name: *Galeorhinus* sp.
 Formation: unknown
 Locality: Pryor, Montana, USA
 (Indian reservation)
 Age: Paleocene
 Illustrate:

No. 10512
 Name: *Galeorhinus minutissimus* Arambourg
 Formation: unknown
 Locality: Khouribga, Morocco
 Age: Eocene (Ypresian)
 Illustrate:

No. 10513
 Name: *Galeorhinus* sp.
 Formation: unknown
 Locality: Infencin De Foret, Belgium
 Age: Eocene
 Illustrate:

No. 10514
 Name: *Galeorhinus* sp.
 Formation: unknown
 Locality: Merah-El-Arech, Morocco
 Age: Eocene (Ypresian)
 Illustrate:

No. 10515
 Name: *Galeorhinus* sp.
 Formation: unknown
 Locality: khouribga, Morocco
 Age: Eocene (Ypresian)
 Illustrate:

No. 10516
 Name: *Galeorhinus* sp.
 Formation: Bashi Fm.
 Locality: Meridian, Mississippi, USA
 Age: Eocene
 Illustrate:

No. 10517
 Name: *Galeorhinus* sp.
 Formation: unknown
 Locality: Foret Des Bruxelles, Belgium
 Age: Eocene (Ypresian)
 Illustrate:

No. 10518
 Name: *Galeorhinus* sp.
 Formation: unknown
 Locality: Charlie Creek, 2 mi. N of Garner, Florida, USA
 Age: Miocene
 Illustrate:

No. 10519
 Name: *Hemipristis serra* Agassiz
 Formation: unknown
 Locality: Port Royal, Suoth Carolina, USA
 Age: Miocene
 Illustrate: Plate 40(10519a,b)

No. 10520
 Name: *Hemipristis serra* Agassiz
 Formation: C2 Phosphate Bed Mid Globigerina Limestone.
 Locality: Gnejna valley, Island of Malta
 Age: Miocene
 Illustrate: Plate 40

No. 10521
 Name: *Hemipristis* sp.
 Formation: Peedee
 Locality: Processing Plant 4 mi. N. of Rosehill, North Carolina, USA
 Age: Eocene
 Illustrate:

No. 10522
 Name: *Hemipristis serra* Agassiz
 Formation: Calvert Fm.
 Locality: Horsehead Cliffs, Potomac River, Wakefield, Virginia, USA
 Age: Middle Miocene
 Illustrate: Plate 40

No. 10523
 Name: *Hemipristis serra* Agassiz
 Formation: unknown
 Locality: Kings Bay, Georgia, USA
 Age: Miocene
 Illustrate: Plate 40

No. 10524
 Name: *Hemipristis serra* Agassiz
 Formation: Santa Margarita Fm.
 Locality: Templeton, California, USA
 Age: Miocene
 Illustrate:

No. 10525
 Name: *Hemipristis serra* Agassiz
 Formation: unknown
 Locality: "A"Bank of Brunswick River, Glynn Co.,
 near Sydney Lanier,
 Brige off of Rt. 17, GA., USA
 Age: Miocene /Pliocene
 Illustrate: Plate 40

No. 10526
 Name: *Hemipristis serra* Agassiz
 Formation: unknown
 Locality: Charlie Creek, 2 mi. N of Garner, Florida,
 USA
 Age: Miocene
 Illustrate:

No. 10527
 Name: *Hemipristis serra* Agassiz
 Formation: Hawthorne Fm. ?
 Locality: Edisto Beach, South Carolina, USA
 Age: Miocene
 Illustrate:

No. 10528
 Name: *Hemipristis serra* Agassiz
 Formation: unknown
 Locality: Minnesott Beach, near Arapahoe Beach,
 North Carolina, USA
 Age: Miocene
 Illustrate: Plate 40(10528a,b)

No. 10529
 Name: *Hemipristis* sp.
 Formation: Kirkwood Fm.
 Locality: Mingamahone Brook near Camp
 Houseman, Hurley Pond Rd.
 & Rts. 524-547 Farmingdale,
 New Jersey, USA
 Age: Miocene
 Illustrate:

No. 10530
 Name: *Hemipristis serra* Agassiz
 Formation: Temblor Fm.
 Locality: Poso Creek near Woody, California, USA
 Age: Miocene
 Illustrate: Plate 40(10530a,b)

No. 10531
 Name: *Hemipristis serra* Agassiz
 Formation: Yorktown (Duplin Marl ?)
 Locality: Quarry, New Bern, North Carolina, USA
 Age: Miocene
 Illustrate:

No. 10532
 Name: *Hemipristis serra* Agassiz
 Formation: Hawthorne Fm.
 Locality: Rt.41 at Boat yard off Wando River
 Bridge N.W. of Mt. Pleasant,
 South Carolina, USA
 Age: Miocene
 Illustrate:

No. 10533
 Name: *Hemipristis serra* Agassiz
 Formation: unknown
 Locality: Venice Beach, Florida, USA
 Age: Miocene
 Illustrate: Plate 40

No. 10534
 Name: *Abdounia minutissima* (Winkler)
 Formation: Tuscahoma Fm.
 Locality: Meridian, Mississippi, USA
 Age: Early Eocene (Ypresian)
 Illustrate:

No. 10535
 Name: *Abdounia* sp.
 Formation: unknown
 Locality: Metlaoui, Tunisia
 Age: Eocene (Ypresian)
 Illustrate:

No. 10536
 Name: *Abdounia* sp.
 Formation: unknown
 Locality: Merah-El-Arech, Morocco
 Age: Eocene (Ypresian)
 Illustrate:

No. 10537
 Name: *Abdounia* sp.
 Formation: unknown
 Locality: khouribga, Morocco
 Age: Eocene (Ypresian)
 Illustrate:

No. 10538
 Name: *Abdounia* sp.
 Formation: unknown
 Locality: Khouribga, Morocco
 Age: Eocene (Ypresian)
 Illustrate:

No. 10539
 Name: *Abdounia* sp.
 Formation: Bashi Fm.
 Locality: Meridian, Mississippi, USA
 Age: Eocene
 Illustrate:

No. 10540
 Name: *Abdounia* sp.
 Formation: unknown
 Locality: Foret Des Bruxelles, Belgium
 Age: Eocene (Ypresian)
 Illustrate:

No. 10541
 Name: *Carcharhinus* sp.
 Formation: unknown
 Locality: Port Royal, South Carolina, USA
 Age: Miocene
 Illustrate: Plate 40(10541a,b)

No. 10542
 Name: *Carcharhinus* sp.
 Formation: Modello
 Locality: "Leisure World" housing project, El Toro,
 California, USA
 Age: Miocene
 Illustrate:

No. 10543
 Name: *Carcharhinus* sp.
 Formation: unknown
 Locality: Talum d'Orthey, Lower Pyriennes, France
 Age: Miocene
 Illustrate: Plate 40(10543a,b)

No. 10544
 Name: *Carcharhinus* sp.
 Formation: unknown
 Locality: Kings Bay, Georgia, USA
 Age: Miocene
 Illustrate: Plate 40

No. 10545
 Name: *Carcharhinus* sp.
 Formation: Sant Margarita Fm.
 Locality: Templeton, California, USA
 Age: Miocene
 Illustrate: Plate 40

No. 10546
 Name: *Carcharhinus* sp.
 Formation: unknown
 Locality: Ashley River, Charleston, South Carolina,
 USA
 Age: Middle Miocene (Burdigalian)
 Illustrate:

No. 10547
 Name: *Carcharhinus* sp.
 Formation: Calvert Fm.
 Locality: Nomini Cliffs, on the Potomac River,
 Virginia, USA
 Age: Middle Miocene
 Illustrate: Plate 40

No. 10548
 Name: *Carcharhinus* sp.
 Formation: Shark River Marl
 Locality: Shark River, Neptune, New Jersey, USA
 Age: Eocene
 Illustrate:

No. 10549
 Name: *Carcharhinus* sp.
 Formation: Clinchfield Sand, Claiborne Group.
 Locality: Quarry, Clinchfield, Georgia, USA
 Age: Middle Eocene
 Illustrate:

No. 10550
 Name: *Carcharhinus* sp.
 Formation: Cooper Marl (Jackson Group).
 Locality: Hawkinsville, Georgia, USA
 Age: Upper Eocene - Lower Oligocene
 Illustrate:

No. 10551
 Name: *Carcharhinus* sp.
 Formation: Clinchfield Sands.
 Locality: Georgia, USA
 Age: Late Eocene
 Illustrate:

No. 10552
 Name: *Carcharhinus* sp.
 Formation: Red Crag Bed.
 Locality: Suffolk, England, UK
 Age: Eocene
 Illustrate:

No. 10553
 Name: *Carcharhinus* sp.
 Formation: Santee Marl
 Locality: Harleyville, South Carolina, USA
 Age: Eocene
 Illustrate:

No. 10554
 Name: *Carcharhinus* sp.
 Formation: unknown
 Locality: "A" Bank of Brunswick River, Glynn Co.,
 near Sydney Lanier Brige off of Rt. 17,
 GA., USA
 Age: Miocene / Pliocene
 Illustrate: Plate 40(10554a,b)

No. 10555
 Name: *Carcharhinus* sp.
 Formation: unknown
 Locality: Charlie Creek, 2 mi. N of Garner,
 Florida, USA
 Age: Miocene
 Illustrate: Plate 40(10555a,b)

No. 10556
 Name: *Carcharhinus* sp.
 Formation: Calvert Fm.
 Locality: Potomac River, Charles County,
 Maryland, USA
 Age: Miocene
 Illustrate:

No. 10557
 Name: *Carcharhinus* sp.
 Formation: Hawthorne Fm. ?
 Locality: Edisto Beach, South Carolina, USA
 Age: Miocene
 Illustrate: Plate 40

No. 10558
 Name: *Carcharhinus* sp.
 Formation: Hawthorne Fm.
 Locality: Murrell's inlet, Garden city,
 South Carolina, USA
 Age: Miocene
 Illustrate:

No. 10559
 Name: *Carcharhinus* sp.
 Formation: unknown
 Locality: Minnesott Beach, near Arapahoe Beach,
 North Carolina, USA
 Age: Miocene
 Illustrate: Plate 40(10559a,b)

No. 10560
 Name: *Carcharhinus* sp.
 Formation: Temblor Fm.
 Locality: Poso Creek, Kern Co., California, USA
 Age: Miocene
 Illustrate:

No. 10561
 Name: *Carcharhinus* sp.
 Formation: Temblor Fm.
 Locality: Cuyama, California, USA
 Age: Miocene
 Illustrate:

No. 10562
 Name: *Carcharhinus* sp.
 Formation: Kirkwood Fm.
 Locality: Mingamahone Brook near Camp
 Houseman, Hurley Pond Rd.
 & Rts. 524-547 Farmingdale,
 New Jersey, USA
 Age: Miocene
 Illustrate:

No. 10563
 Name: *Carcharhinus* sp.
 Formation: Temblor Fm.
 Locality: Poso Creek near Woody, California, USA
 Age: Miocene
 Illustrate: Plate 40(10563a,b)

No. 10564
 Name: *Carcharhinus* sp.
 Formation: Hawthorne Fm.
 Locality: Rt.41 at Boat yard off Wando River Bridge
 N.W. of Mt. Pleasant, South Carolina,
 USA
 Age: Miocene
 Illustrate:

No. 10565
 Name: *Carcharhinus* sp.
 Formation: Monterey Fm. ?
 Locality: Camp Drake near Lake Cachuma,
 California, USA
 Age: Miocene
 Illustrate:

No. 10566
 Name: *Carcharhinus* sp.
 Formation: Hawthorne(?)
 Locality: White shell channel cut-dredgings,
 Jacksonville, Florida, USA
 Age: Miocene
 Illustrate: Plate 40(10566a,b)

No. 10567
 Name: *Carcharhinus* sp.
 Formation: unknown
 Locality: Melkbos, Cape Province, South Africa
 Age: Miocene
 Illustrate: Plate 41(10567a,b)

No. 10568
 Name: *Carcharhinus* sp.
 Formation: Pungo River Fm.
 Locality: Lee Creek Mine, Aurora, North Carolina,
 USA
 Age: Middle Miocene
 Illustrate: Plate 41(10568a,b)

No. 10569
 Name: *Carcharhinus* sp.
 Formation: unknown
 Locality: Beverly Beach, Oregon, USA
 Age: Miocene
 Illustrate: Plate 41(10569a,b)

No. 10570
 Name: *Carcharhinus* sp.
 Formation: unknown
 Locality: Newport bay, California, USA
 Age: Pliocene
 Illustrate:

No. 10571
 Name: *Carcharhinus* sp.
 Formation: Pungo River Marl Fm.
 Locality: Aurora, North Carolina, USA
 Age: Middle Miocene
 Illustrate: Plate 41(10571a,b)

No. 10572
 Name: *Carcharhinus* sp.
 Formation: Pungo River Marl Fm.
 Locality: Lee Creek Mine, S. of Pomlico River
 near Aurora, Beaufort Co.,
 North Carolina, USA
 Age: Middle Miocene
 Illustrate:

No. 10573
 Name: *Carcharhinus* sp.
 Formation: Pungo River Marl Fm.
 Locality: T.G.S., Aurora, North Carolina, USA
 Age: Middle Miocene
 Illustrate:

No. 10574
 Name: *Carcharhinus priscus* (Agassiz)
 Formation: Pungo River Marl Fm.
 Locality: T.G.S., Aurora, North Carolina, USA
 Age: Middle Miocene
 Illustrate: Plate 40(10574a~d)

No. 10575
 Name: *Carcharhinus* sp.
 Formation: Pungo River Marl Fm.
 Locality: T.G.S., Aurora, North Carolina, USA
 Age: Middle Miocene
 Illustrate:

- No. 10576
Name: *Carcharhinus* sp.
Formation: Pungo River Marl Fm.
Locality: T.G.S., Lee Creek, North Carolina, USA
Age: Middle Miocene
Illustrate: Plate 41
- No. 10577
Name: *Carcharhinus* sp.
Formation: Yorktown (Duplin Marl ?)
Locality: Quarry, New Bern, North Carolina, USA
Age: Miocene
Illustrate: Plate 41(10577a,b)
- No. 10578
Name: *Carcharhinus* sp.
Formation: unknown
Locality: South Carolina, USA
Age: Eocene
Illustrate:
- No. 10579
Name: *Carcharhinus* sp.
Formation: unknown
Locality: Venice Beach, Florida, USA
Age: Miocene
Illustrate: Plate 41(10579a,b)
- No. 10580
Name: *Carcharhinus* sp.
Formation: unknown
Locality: Venice Beach, Florida, USA
Age: Miocene
Illustrate: Plate 41(10580a~c)
- No. 10581
Name: *Carcharhinus* sp.
Formation: unknown
Locality: Venice Beach, Florida, USA
Age: Miocene
Illustrate: Plate 41(10581a,b)
- No. 10582
Name: *Carcharhinus* sp.
Formation: unknown
Locality: Venice Beach, Florida, USA
Age: Miocene
Illustrate: Plate 41
- No. 10583
Name: *Carcharhinus* sp.
Formation: unknown
Locality: Venice Beach, Florida, USA
Age: Miocene
Illustrate:
- No. 10584
Name: *Carcharhinus* sp.
Formation: unknown
Locality: Savannah, Georgia, USA
Age: Miocene
Illustrate: Plate 41(10584a,b)
- No. 10585
Name: *Palaeohypotodus* sp.
Formation: unknown
Locality: 3 miles near Malvern, Hot Springs Co., Arkansas, USA
Age: Eocene
Illustrate: Plate 30
- No. 10586
Name: *Galeocерdo contortus* Gibbes
Formation: unknown
Locality: Port Royal, South Carolina, USA
Age: Miocene
Illustrate: Plate 41
- No. 10587
Name: *Galeocерdo cuvieri* (Peron & Lesueur)
Formation: unknown
Locality: Port Royal, South Carolina, USA
Age: Miocene
Illustrate: Plate 41
- No. 10588
Name: *Galeocерdo* sp.
Formation: Castle Hayne Fm.
Locality: Rosehill, North Carolina, USA
Age: Eocene (Ypresian ?)
Illustrate:
- No. 10589
Name: *Galeocерdo latidens* Agassiz
Formation: unknown
Locality: Subway Construction site, Brussels, Belgium
Age: Early Eocene (Lutetian)
Illustrate: Plate 41
- No. 10590
Name: *Galeocерdo* sp.
Formation: Peedee
Locality: Processing Plant 4 mi. N. of Rosehill, North Carolina, USA
Age: Eocene
Illustrate:
- No. 10591
Name: *Galeocерdo contortus* Gibbes
Formation: Calvert Fm.
Locality: Westmoreland State Park on the Potomac River, Virginia, USA
Age: Middle Miocene
Illustrate: Plate 41
- No. 10592
Name: *Galeocерdo contortus* Gibbes
Formation: unknown
Locality: Ashley River, Charleston, South Carolina, USA
Age: Middle Miocene
Illustrate:

No. 10593
 Name: *Galeocерdo aduncas* Agassiz
 Formation: unknown
 Locality: Ashley River, Charleston, South Carolina, USA
 Age: Middle Miocene (Burdigalian)
 Illustrate:

No. 10594
 Name: *Galeocерdo aduncas* Agassiz
 Formation: Calvert Fm.
 Locality: Horsehead Cliffs, Potomac River, Wakefield, Virginia, USA
 Age: Middle Miocene
 Illustrate: Plate 41

No. 10595
 Name: *Galeocерdo cuvieri* (Peron & Lesueur)
 Formation: unknown
 Locality: Kings Bay, Georgia, USA
 Age: Miocene
 Illustrate: Plate 41

No. 10596
 Name: *Galeocерdo contortus* Gibbs
 Formation: Santa Margarita Fm.
 Locality: Templeton, California, USA
 Age: Miocene
 Illustrate: Plate 41

No. 10597
 Name: *Galeocерdo aduncas* Agassiz
 Formation: Pungo River Fm.
 Locality: Lee Creek, Aurora, North Carolina, USA
 Age: Miocene
 Illustrate: Plate 41(10597a,b)

No. 10598
 Name: *Galeocерdo contortus* Gibbs
 Formation: Pungo River Fm.
 Locality: Lee Creek, Aurora, North Carolina, USA
 Age: Miocene
 Illustrate: Plate 41(10598a,b)

No. 10599
 Name: *Galeocерdo* sp.
 Formation: Clinchfield sand, Claiborne Group.
 Locality: Quarry, Clinchfield, Georgia, USA
 Age: Middle Eocene
 Illustrate:

No. 10600
 Name: *Galeocерdo aduncas* Agassiz
 Formation: Eocene Material Castle Hayne Fm.
 Locality: Superior Stone ʘ Halfway Between Warsaw & Magnolia, North Carolina, USA
 Age: Eocene
 Illustrate:

No. 10601
 Name: *Galeocерdo* sp.
 Formation: unknown
 Locality: Chercq, Belgium
 Age: Eocene (Bruxellian)
 Illustrate:

No. 10602
 Name: *Galeocерdo* sp.
 Formation: Clinchfield Sands
 Locality: Georgia, USA
 Age: Late Eocene
 Illustrate:

No. 10603
 Name: *Galeocерdo* sp.
 Formation: Santee Marl
 Locality: Harleyville, South Carolina, USA
 Age: Eocene
 Illustrate:

No. 10604
 Name: *Galeocерdo cuvieri* (Peron & Lesueur)
 Formation: unknown
 Locality: "A"Bank of Brunswick River, Glynn Co., near Sydney Lanier, Brige off of Rt.17, GA., USA
 Age: Miocene /Pliocene
 Illustrate: Plate 41

No. 10605
 Name: *Galeocерdo cuvieri* (Peron & Lesueur)
 Formation: unknown
 Locality: I-95 Construction at White Oak, Camden Co., off Rt.17, GA., USA
 Age: Miocene /Pliocene
 Illustrate: Plate 27(10605a~o)

No. 10606
 Name: *Galeocерdo contortus* Gibbs
 Formation: Calvert Fm.
 Locality: Potomac River, Charles County, Maryland, USA
 Age: Miocene
 Illustrate:

No. 10607
 Name: *Galeocерdo aduncas* Agassiz
 Formation: Calvert Fm.
 Locality: Potomac River, Charles County, Maryland, USA
 Age: Miocene
 Illustrate: Plate 41

No. 10608
 Name: *Galeocерdo cuvieri* (Peron & Lesueur)
 Formation: Hawthorne Fm. ?
 Locality: Edisto Beach, South Carolina, USA
 Age: Miocene
 Illustrate:

No. 10609
 Name: *Galeocерdo aduncas* Agassiz
 Formation: unknown
 Locality: Minnesott Beach, near Arapahoe Beach, North Carolina, USA
 Age: Miocene
 Illustrate:

- No. 10610
Name: *Galeocерdo contortus* Gibbs
Formation: Vascos Fm.
Locality: Scotts Valley, California, USA
Age: Miocene
Illustrate: Plate 41
- No. 10611
Name: *Galeocерdo* sp.
Formation: Temblor Fm.
Locality: Poso Creek, Kern Co., California, USA
Age: Miocene
Illustrate: Plate 41(10611a,b)
- No. 10612
Name: *Galeocерdo* sp.
Formation: Temblor Fm.
Locality: Cuyama, California, USA
Age: Miocene
Illustrate:
- No. 10613
Name: *Galeocерdo* sp.
Formation: Kirkwood Fm.
Locality: Mingamahone Brook near Camp Houseman, Hurley Pond Rd. & Rts. 524-547 Farmingdale, New Jersey, USA
Age: Miocene
Illustrate: Plate 41
- No. 10614
Name: *Galeocерdo* sp.
Formation: Hawthorne Fm.
Locality: Rt.41 at Boat yard off Wando River Bridge N.W. of Mt. Pleasant, South Carolina, USA
Age: Miocene
Illustrate:
- No. 10615
Name: *Galeocерdo* sp.
Formation: Monterey Fm. ?
Locality: Camp Drake near Lake Cachuma, California, USA
Age: Miocene
Illustrate:
- No. 10616
Name: *Galeocерdo cuvieri* (Peron & Lesueur)
Formation: Pungo River Fm.
Locality: Lee Creek Mine, Aurora, North Carolina, USA
Age: Middle Miocene
Illustrate: Plate 41(10616a,b)
- No. 10617
Name: *Galeocерdo aduncas* Agassiz
Formation: Pungo River Fm.
Locality: Lee Creek Mine, Aurora, North Carolina, USA
Age: Middle Miocene
Illustrate:
- No. 10618
Name: *Galeocерdo contortus* Gibbs
Formation: Pungo River Fm.
Locality: Lee Creek Mine, Aurora, North Carolina, USA
Age: Middle Miocene
Illustrate:
- No. 10619
Name: *Galeocерdo aduncas* Agassiz
Formation: unknown
Locality: Boom, Belgium
Age: Pliocene
Illustrate: Plate 41
- No. 10620
Name: *Galeocерdo contortus* Gibbs
Formation: Pungo River Marl Fm.
Locality: Aurora, North Carolina, USA
Age: Middle Miocene
Illustrate: Plate 41(10620a,b)
- No. 10621
Name: *Galeocерdo aduncas* Agassiz
Formation: Pungo River Marl Fm.
Locality: Aurora, North Carolina, USA
Age: Middle Miocene
Illustrate: Plate 41(10621a,b)
- No. 10622
Name: *Caleocерdo oontortus* Gibbs
(Parasymphyseal tooth ?)
Formation: Pungo River Marl Fm.
Locality: Lee Creek Mine, S. of Pamlico River near Aurora, Beaufort Co., North Carolina, USA
Age: unknown
Illustrate: Plate 41(10622a,b)
- No. 10623
Name: *Gareocерdo contortus* Gibbs
Formation: Pungo River Marl Fm.
Locality: T.G.S., Aurora, North Carolina, USA
Age: Middle Miocene
Illustrate:
- No. 10624
Name: *Galeocерdo* sp.
Formation: Pungo River Marl Fm.
Locality: T.G.S., Lee Creek, North Carolina, USA
Age: Middle Miocene
Illustrate: Plate 41
- No. 10625
Name: *Galeocерdo cuvieri* (Peron & Lesueur)
Formation: Yorktown (Duplin Marl ?)
Locality: Quarry, New Bern, North Carolina, USA
Age: Miocene
Illustrate:
- No. 10626
Name: *Galeocерdo* sp.
Formation: unknown
Locality: South Carolina, USA
Age: Eocene
Illustrate:

No. 10627
Name: *Galeocerdo cuvieri* (Peron & Lesueur)
Formation: unknown
Locality: Venice Beach, Florida, USA
Age: Miocene
Illustrate: Plate 41

No. 10628
Name: *Galeocerdo* sp.
Formation: unknown
Locality: Venice Beach, Florida, USA
Age: Miocene
Illustrate:

No. 10629
Name: *Galeocerdo* sp.
Formation: Ledien
Locality: Balegem, Belgium
Age: Eocene
Illustrate:

No. 10630
Name: *Negaprion* sp.
Formation: unknown
Locality: Venice Beach, Florida, USA
Age: Miocene
Illustrate: Plate 26(10630a~f), 27(10630a~l)

No. 10631
Name: *Negaprion* sp. (Lemon shark)
Formation: unknown
Locality: Kings Bay, Georgia, USA
Age: Miocene
Illustrate: Plate 41(10631a,b)

No. 10632
Name: *Pterolamiops* sp.
Formation: unknown
Locality: I-95 Construction at White Oak,
Camden Co., off Rt.17, GA., USA
Age: Miocene /Pliocene
Illustrate: Plate 41

No. 10633
Name: *Pterolamiops longimanus* (Poey)
Formation: Hawthorne(?)
Locality: White shell channel cut-dredgings,
Jacksonville, Florida, USA
Age: Miocene
Illustrate: Plate 41

No. 10634
Name: *Pterolamiops* sp.
Formation: Pungo River Fm.
Locality: Lee Creek Mine, Aurora, North Carolina,
USA
Age: Middle Miocene
Illustrate: Plate 41

No. 10635
Name: *Pterolamiops longimanus* (Poey)
Formation: unknown
Locality: Venice Beach, Florida, USA
Age: Miocene
Illustrate: Plate 41

No. 10636
Name: *Pterolamiops longimanus* (Poey)
Formation: unknown
Locality: Port Royal, South Carolina, USA
Age: Miocene
Illustrate: Plate 41

No. 10637
Name: *Synechodus* sp.
Formation: unknown
Locality: Craie D'obourg, Belgium
Age: Upper Cretaceous
Illustrate: Plate 41

No. 10638
Name: *Synechodus* sp.
Formation: unknown
Locality: Craie D'obourg, Belgium
Age: Upper Cretaceous
Illustrate: Plate 41

No. 10639
Name: *Myledaphus bipartitus* Cope
Formation: Edmonton Fm.
Locality: Munson Ferry, near Drumheller,
Alberta, Canada
Age: Upper Cretaceous
Illustrate: Plate 41(10639a,b)

No. 10640
Name: *Sphyrna* sp.
Formation: Temblor Fm.
Locality: Poso Creek, Kern Co., California, USA
Age: Miocene
Illustrate: Plate 41(10640a,b)

No. 10641
Name: *Protoplatyrhina renae* Case
(Dermal Denticles)
Formation: Mesaverde Fm.
Locality: Worland, Wyoming, USA
Age: Upper Cretaceous (Late Campanian)
Illustrate:

No. 10642
Name: *Raja dux* Cope (skate dermal ossicles)
Formation: unknown
Locality: Venice Beach, Florida, USA
Age: Miocene
Illustrate: Plate 39

No. 10643
Name: *Raja* sp.
Formation: unknown
Locality: Kallo, Belgium
Age: Miocene or Pliocene
Illustrate: Plate 42

No. 10644
Name: *Raja clavata* Agassiz
Formation: Red Crag
Locality: Suffolk, England, UK
Age: Pliocene
Illustrate: Plate 4(6), 42

- No. 10645
Name: *Raja dux* Cope (Dermal denticle of ray)
Formation: Hawthorne(?)
Locality: White shell channel cut-dredgings,
Jacksonville, Florida, USA
Age: Miocene
Illustrate:
- No. 10646
Name: *Raja dux* Cope (Dermal denticles)
Formation: Pungo River Marl Fm.
Locality: T.G.S. North Carolina, USA
Age: Middle Miocene
Illustrate: Plate 4(4,8),42(10646a,b)
- No. 10647
Name: *Raja dux* Cope (Dermal denticles)
Formation: Pungo River Marl Fm.
Locality: T.G.S. North Carolina, USA
Age: Middle Miocene
Illustrate: Plate 42(10647a,b)
- No. 10648
Name: *Raja antiqua* Agassiz (Osseous scute)
Formation: unknown
Locality: Red Crag. Suffolk, England, UK
Age: Eocene
Illustrate: Plate 4(9,10),42(10648a,b)
- No. 10649
Name: *Pseudohypolophus mcultyi* (Thurmond)
Formation: Uppermost Woodbine Fm.
Locality: Tarrant Co., Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 41
- No. 10650
Name: *Ischyrhiza mira* Leidy
Formation: Taylor Marl
Locality: N.Shlpur River, Ladonia, Texas, USA
Age: Upper Cretaceous
Illustrate: Plate 42(10650a,b)
- No. 10651
Name: *Ischyrhiza mira* Leidy
Formation: unknown
Locality: Freehold, New Jersey, USA
Age: Upper Cretaceous
Illustrate: Plate 42
- No. 10652
Name: *Ischyrhiza mira* Leidy
Formation: Merchantville ? or Woodbury clay.
Locality: Chesapeake & Delaware Canal,
St.Georges, Delaware, USA
Age: Upper Cretaceous
Illustrate: Plate 42(10652a,b)
- No. 10653
Name: *Ischyrhiza mira* Leidy
Formation: Matawan Woodbury Clay
Locality: Matawan, New Jersey, USA
Age: Upper Cretaceous
Illustrate: Plate 42
- No. 10654
Name: *Ischyrhiza mira* Leidy
Formation: unknown
Locality: Spoil Banks, C & D, Canal, St.Georges,
Delaware, USA
Age: Miocene
Illustrate: Plate 42(10654a,b)
- No. 10655
Name: *Ischyrhiza mira* Leidy
Formation: Navesink - Mt. Laurel
Locality: C & D Canal, St.Georges, Delaware, USA
Age: Upper Cretaceous
Illustrate: Plate 42
- No. 10656
Name: *Anoxypristis* sp.
Formation: unknown
Locality: Beni-Idir, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 29(10656a~j)
- No. 10657
Name: *Anoxypristis* sp.
Formation: unknown
Locality: Tranchée R.E.I., Sidi-Daoui, Morocco
Age: Eocene (Thanetian-Ypresian)
Illustrate: Plate 42
- No. 10658
Name: *Pristis* sp.
Formation: unknown
Locality: Merah-El-Arech, Morocco
Age: Eocene (Ypresian)
Illustrate:
- No. 10659
Name: *Pristis lathami* Galeotti
(Sawfish rostral spine)
Formation: unknown
Locality: Sidi-Daoui, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 42
- No. 10660
Name: *Pristis* sp.
Formation: unknown
Locality: Charlie Creek, 2 mi. N of Garner, Florida,
USA
Age: Miocene
Illustrate:
- No. 10661
Name: *Pristis* sp.
Formation: unknown
Locality: Balagem, Belgium
Age: Miocene
Illustrate:
- No. 10662
Name: *Pristis* sp.
Formation: Yorktown (Duplin Marl ?)
Locality: Quarry, New Bern, North Carolina, USA
Age: Miocene
Illustrate: Plate 42(10662a,b)

No. 10663
 Name: *Pristis* sp.
 Formation: Kirkwood
 Locality: Shark river, Neptune, New Jersey, USA
 Age: Miocene
 Illustrate:

No. 10664
 Name: *Pristis* sp.
 Formation: unknown
 Locality: Venice Beach, Florida, USA
 Age: Miocene
 Illustrate: Plate 42(10664a~c)

No. 10665
 Name: *Pristis* sp.
 Formation: unknown
 Locality: Venice Beach, Florida, USA
 Age: Miocene
 Illustrate:

No. 10666
 Name: *Pristis* sp.
 Formation: unknown
 Locality: Port Royal, South Carolina, USA
 Age: Miocene
 Illustrate:

No. 10667
 Name: *Pristis* sp. (vertebra)
 Formation: unknown
 Locality: L. Headons, Hordle Cliff, Taddiford, England, UK
 Age: Upper Cretaceous
 Illustrate:

No. 10668
 Name: *Dasyatis* sp.
 Formation: unknown
 Locality: Khouribga, Morocco
 Age: Palaeocene (Montian)
 Illustrate:

No. 10669
 Name: *Dasyatis* sp. ?
 Formation: Muddy Sandstone
 Locality: Big Horn Basin, Wyoming, USA
 Age: Lower Cretaceous (Middle Albian)
 Illustrate:

No. 10670
 Name: *Dasyatis* sp.
 Formation: unknown
 Locality: Hemixen, Belgium
 Age: Miocene (Anversien)
 Illustrate:

No. 10671
 Name: *Aetobatus irregularis* (Agassiz)
 Formation: Barton Clay
 Locality: Barton on sea, Hants, England, UK
 Age: Eocene
 Illustrate: Plate 42

No. 10672
 Name: *Aetobatus* sp.
 Formation: unknown
 Locality: France
 Age: Miocene
 Illustrate: Plate 4(5),42

No. 10673
 Name: *Aetobatus irregularis* (Agassiz)
 Formation: unknown
 Locality: Isle of Sheppey, England, UK
 Age: Eocene
 Illustrate: Plate 29

No. 10674
 Name: *Aetobatus irregularis* (Agassiz)
 Formation: unknown
 Locality: Suffolk, England, UK
 Age: Eocene
 Illustrate: Plate 29

No. 10675
 Name: *Brachyrhizodus wichitaensis* Romer (vertebrae)
 Formation: unknown
 Locality: Rosehill, North Carolina, USA
 Age: Upper Cretaceous
 Illustrate: Plate 42(10675a,b)

No. 10676
 Name: *Brachyrhizodus wichitaensis* Romer
 Formation: Navesink (derived)
 Locality: Dug out of Ancient River Channel in Flood Plain, Big Brook, Marlboro, New Jersey, USA
 Age: Upper Cretaceous (Middle Maastrichtian)
 Illustrate: Plate 42(10676a,b)

No. 10677
 Name: *Brachyrhizodus wichitaensis* Romer
 Formation: unknown
 Locality: Irrigation Pond Buttonwood Farm, near Marlboro, at Herbert's Corner, off Rt. 520, Bradevelt, New Jersey, USA
 Age: Upper Cretaceous (Middle Maastrichtian)
 Illustrate: Plate 42(10677a,b)

No. 10678
 Name: *Brachyrhizodus wichitaensis* Romer
 Formation: Merchantville ? or Woodbury clay.
 Locality: Chesapeake & Delaware Canal, St. Georges, Delaware, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10679
 Name: *Brachyrhizodus wichitaensis* Romer (vertebral centrum)
 Formation: Peedee
 Locality: Rosehill, North Carolina, USA
 Age: Upper Cretaceous (Maastrichtian)
 Illustrate: Plate 42

- No. 10680
Name: *Brachyrhizodus wichitaensis* Romer
Formation: unknown
Locality: Spoil Banks, C & D, Canal, St. Georges, Delaware, USA
Age: Miocene
Illustrate: Plate 42
- No. 10681
Name: *Brachyrhizodus wichitaensis* Romer
Formation: Navesink Fm.
Locality: Hop Brook, Holmdel, New Jersey, USA
Age: Upper Cretaceous
Illustrate: Plate 42(10681a,b)
- No. 10682
Name: *Myliobatis toliapicus* Agassiz
Formation: unknown
Locality: Vlierzele, Belgium
Age: Eocene (Ledian)
Illustrate:
- No. 10683
Name: *Myliobatis* sp.
Formation: unknown
Locality: Sidi Daoui, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 4(2),43
- No. 10684
Name: *Myliobatis* sp.
Formation: unknown
Locality: Sidi-Doaui, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 4(3),43
- No. 10685
Name: *Myliobatis toliapicus* Agassiz
Formation: Barton Beds
Locality: Bracklesham Bay, England, UK
Age: Eocene
Illustrate:
- No. 10686
Name: *Myliobatis* sp.
Formation: unknown
Locality: Crownsville, Maryland, USA
Age: Upper Middle Eocene
Illustrate:
- No. 10687
Name: *Myliobatis toliapicus* Agassiz
Formation: London Clay
Locality: Sheppey, England, UK
Age:
Illustrate:
- No. 10688
Name: *Myliobatis* sp.
Formation: unknown
Locality: Kings Bay, Georgia, USA
Age: Miocene
Illustrate: Plate 4(12),43
- No. 10689
Name: *Myliobatis* sp.
Formation: Pungo River Fm.
Locality: Aurora (Lee Creek), North Carolina, USA
Age: Middle Miocene
Illustrate: Plate 4(11),43(10689a,b)
- No. 10690
Name: *Myliobatis* sp.
Formation: unknown
Locality: Belgium
Age: Eocene (Lutetian ?)
Illustrate:
- No. 10691
Name: *Myliobatis* sp.
Formation: Sant Margarita Fm.
Locality: Templeton, California, USA
Age: Miocene
Illustrate:
- No. 10692
Name: *Myliobatis* sp.
Formation: unknown
Locality: Metlaoui, Tunisia
Age: Eocene (Ypresian)
Illustrate: Plate 43
- No. 10693
Name: *Myliobatis* sp.
Formation: unknown
Locality: Merah-El-Arech, Morocco
Age: Eocene (Ypresian)
Illustrate:
- No. 10694
Name: *Myliobatis* sp.
Formation: Vincentown Fm.
Locality: Church & Eayrestown Rd., Medford, New Jersey, USA
Age: Eocene
Illustrate:
- No. 10695
Name: *Myliobatis* sp.
Formation: Bashi Fm.
Locality: Meridian, Mississippi, USA
Age: Eocene
Illustrate:
- No. 10696
Name: *Myliobatis* sp.
Formation: Aquia Fm. Piscataway member.
Locality: Smith's point, Potomac river near Liverpool PT., MD., USA
Age: Eocene
Illustrate: Plate 43(10696a~c)
- No. 10697
Name: *Myliobatis* sp.
Formation: unknown
Locality: 3 miles near Malvern, Hot Springs Co., Arkansas, USA
Age: Eocene
Illustrate: Plate 43(10697a,b)

- No. 10698
Name: *Myliobatis* sp.
Formation: Eocene Material Castle Hayne Fm.
Locality: Superior Stone Quarry, X Halfway
Between Warsaw & Magnolia,
North Carolina, USA
Age: Eocene
Illustrate:
- No. 10699
Name: *Myliobatis* sp.
Formation: Aquia Fm.
Locality: Aquia Creek & Belvidere Beach,
Virginia, USA
Age: Early Eocene
Illustrate: Plate 4(7),43(10699a,b)
- No. 10700
Name: *Myliobatis* sp.
Formation: Cooper Marl (Jackson Group)
Locality: Hawkinsville, Georgia, USA
Age: Upper Eocene - Lower Oligocene
Illustrate:
- No. 10701
Name: *Myliobatis* sp.
Formation: Barton Beds
Locality: Barton, Sussex, England, UK
Age: Eocene
Illustrate:
- No. 10702
Name: *Myliobatis* sp.
Formation: unknown
Locality: Subway Construction site Brussels,
Belgium
Age: Eocene (Lutetian)
Illustrate: Plate 44(10702a,b)
- No. 10703
Name: *Myliobatis* sp.
Formation: unknown
Locality: Foret Des Bruxelles, Belgium
Age: Eocene (Ypresian)
Illustrate:
- No. 10704
Name: *Myliobatis* sp.
Formation: Clinchfield Sands
Locality: Georgia, USA
Age: Late Eocene
Illustrate:
- No. 10705
Name: *Myliobatis* sp.
Formation: Red Crag Bed
Locality: Suffolk, England, UK
Age: Eocene
Illustrate:
- No. 10706
Name: *Myliobatis* sp.
Formation: Bracklesham Beds
Locality: Bracklesham Bay, England, UK
Age: Eocene
Illustrate: Plate 44(10706a,b)
- No. 10707
Name: *Myliobatis* sp.
Formation: unknown
Locality: Pick County, Alabama, USA
Age: Palaeocene
Illustrate:
- No. 10708
Name: *Myliobatis* sp.
Formation: unknown
Locality: Abandoned Trench at Entrance to Old
Recette, Oued-Zem, Morocco
Age: Eocene (Ypresian)
Illustrate:
- No. 10709
Name: *Myliobatis* sp.
Formation: unknown
Locality: Coal pit of Espenhain near Leipzig, Germany
Age: Oligocene
Illustrate:
- No. 10710
Name: *Myliobatis* sp.
Formation: unknown
Locality: "A"Bank of Brunswick River, Glynn Co.,
near Sydney Lanier, Brige off of Rt.17, GA.,
USA
Age: Miocene /Pliocene
Illustrate: Plate 44(10710a,b)
- No. 10711
Name: *Myliobatis* sp.
Formation: unknown
Locality: Charlie Creek, 2 mi. N of Garner, Florida,
USA
Age: Miocene
Illustrate: Plate 44(10711a,b)
- No. 10712
Name: *Myliobatis* sp.
Formation: unknown
Locality: Minnesott Beach, near Arapahoe Beach,
North Carolina, USA
Age: Miocene
Illustrate: Plate 44
- No. 10713
Name: *Myliobatis* sp.
Formation: Kirkwood Fm.
Locality: Mingamahone Brook near Camp
Houseman, Hurley Pond Rd.
& Rts. 524-547 Farmingdale,
New Jersey, USA
Age: Miocene
Illustrate:
- No. 10714
Name: *Myliobatis* sp.
Formation: Temblor Fm.
Locality: Poso Creek near Woody, California, USA
Age: Miocene
Illustrate:

- No. 10715
Name: *Myliobatis* sp.
Formation: Monterey Fm. ?
Locality: Camp Drake near Lake Cachuma,
California, USA
Age: Miocene
Illustrate:
- No. 10716
Name: *Myliobatis* sp.
Formation: Hawthorne(?)
Locality: Jacksonville, Florida, USA
White shell channel cut-dredgings.
Age: Miocene
Illustrate:
- No. 10717
Name: *Myliobatis* sp.
Formation: unknown
Locality: Melkbos, Cape Province South Africa
Age: Miocene
Illustrate:
- No. 10718
Name: *Myliobatis* sp.
Formation: Pungo River Fm.
Locality: Lee Creek Mine, Aurora, North Carolina,
USA
Age: Middle Miocene
Illustrate: Plate 44
- No. 10719
Name: *Myliobatis* sp.
Formation: unknown
Locality: Sidi-Daoui, Morocco
Age: Eocene (Ypresian)
Illustrate: Plate 44(10719a,b)
- No. 10720
Name: *Myliobatis* sp.
Formation: Pungo River Marl Fm.
Locality: T.G.S., Aurora, North Carolina, USA
Age: Middle Miocene
Illustrate: Plate 44(10720a,b)
- No. 10721
Name: *Myliobatis* sp.
Formation: Yorktown (Duplin Marl ?)
Locality: Quarry, New Bern, North Carolina, USA
Age: Miocene
Illustrate:
- No. 10722
Name: *Myliobatis* sp.
Formation: unknown
Locality: Khouribga, Morocco
Age: Eocene
Illustrate: Plate 44(10722a,b)
- No. 10723
Name: *Myliobatis* sp.
Formation: Shark River Marl Fm.
Locality: Neptune, New Jersey, USA
Age: Eocene
Illustrate:
- No. 10724
Name: *Myliobatis* sp. Lower jaw crusher teeth
Formation: unknown
Locality: Venice Beach, Florida, USA
Age: Miocene
Illustrate: Plate (10724a~c)
- No. 10725
Name: *Myliobatis copeanus*
Formation: Aquia Fm.
Locality: Belvidere Beach, Virginia, USA
Age: Eocene
Illustrate: Plate 44
- No. 10726
Name: *Myliobatis striatus* Buckland
Formation: unknown
Locality: Bracklesham Bay, Sussex, England, UK
Age: Eocene (Auversian)
Illustrate: Plate 43(10726a,b)
- No. 10727
Name: *Rhombodus laevis* Cappetta et Case
Formation: Mt. Laurel
Locality: Hop Brook, Cross Farm, Holmdel,
New Jersey, USA
Age: Upper Cretaceous
Illustrate:
- No. 10728
Name: *Rhombodus binkhorsti* Dames
Formation: unknown
Locality: Processing Plant 4 mi. N. of Rosehill,
North Carolina, USA
Age: Upper Cretaceous
Illustrate:
- No. 10729
Name: *Rhombodus binkhorsti* Dames
Formation: unknown
Locality: Tranchee, R.E.T., Sidi Daoui, Morocco
Age: Upper Cretaceous (Maastrichtian)
Illustrate: Plate 44(10729a,b)
- No. 10730
Name: *Rhombodus binkhorsti* Dames
Formation: unknown
Locality: Beni-Idir, Morocco
Age: Cretaceous (Maastrichtian)
Illustrate:
- No. 10731
Name: *Rhombodus binkhorsti* Dames
Formation: unknown
Locality: 13 km so. from Khouribga on the road to
Fikh-Ben-Salah, Morocco
Age: Cretaceous (Maastrichtian)
Illustrate: Plate 44
- No. 10732
Name: *Rhombodus binkhorsti* Dames
Formation: unknown
Locality: Oued-Zem, Morocco
Age: Upper Cretaceous (Maastrichtian)
Illustrate: Plate 44

No. 10733
 Name: *Rhombodus binkhorsti* Dames
 Formation: Eocene Material Castle Hayne Fm.
 Locality: Superior Stone X Halfway Between
 Warsaw & Magnolia, North Carolina,
 USA
 Age: Upper Cretaceous
 Illustrate:

No. 10734
 Name: *Rhombodus binkhorsti* Dames
 Formation: Peedee
 Locality: Rosehill, North Carolina, USA
 Age: Upper Cretaceous (Maastrichtian)
 Illustrate: Plate 44(10734a,b)

No. 10735
 Name: *Rhombodus bondoni* Arambourg
 Formation: unknown
 Locality: Morocco
 Age: Cretaceous (Maastrichtian)
 Illustrate:

No. 10736
 Name: *Rhombodus binkhorsti* Dames
 Formation: unknown
 Locality: Khouribga, Morocco
 Age: Upper Cretaceous (Maastrichtian)
 Illustrate: Plate 44(10736a,b)

No. 10737
 Name: *Plinthicus stenodon* Cope
 Formation: Pungo River Fm.
 Locality: Lee Creek Mine, Aurora, North Carolina,
 USA
 Age: Middle Miocene
 Illustrate: Plate 44(10737a,b)

No. 10738
 Name: *Hexanchus agassizi* Cappetta
 Formation: unknown
 Locality: Germany
 Age: Oligocene
 Illustrate:

No. 10739
 Name: *Hexanchus microdon* (Agassiz)
 Formation: Chalk Fm.
 Locality: Gog. & Magog. Hills near Cambridge,
 England, UK
 Age: Upper Cretaceous
 Illustrate:

No. 10740
 Name: *Aetobatus* sp.
 Formation: Kirkwood
 Locality: Shark river, Neptune, New Jersey, USA
 Age: Miocene
 Illustrate:

No. 10741
 Name: *Aetobatus* sp. Lower jaw crusher teeth
 Formation: unknown
 Locality: Venice Beach, Florida, USA
 Age: Miocene
 Illustrate:

No. 10742
 Name: *Aetobatus* sp. & *Myliobatis* sp.
 Formation: Ocala Limestone
 Locality: Sandersville, Georgia, USA
 Age: Late Eocene
 Illustrate:

No. 10743
 Name: *Aetobatus irregularis* (Agassiz)
 Formation: Ledien
 Locality: Balegem, Belgium
 Age: Eocene
 Illustrate:

No. 10744
 Name: *Ischyodus bifurcatus* Case
 Formation: unknown
 Locality: Eben-Emael, Belgium
 Age: Upper Cretaceous (Maastrichtian)
 Illustrate:

No. 10745
 Name: *Ischyodus bifurcatus* Case ?
 Formation: Hornerstown Fm.
 Locality: Cream Ridge, New Jersey, USA
 Age: Palaeocene
 Illustrate:

No. 10746
 Name: *Ischyodus bifurcatus* Case
 Formation: Navesink Mt. Laurel
 Locality: C & D Canal, St. Georges, Delaware, USA
 Age: Upper Cretaceous
 Illustrate:

No. 10747
 Name: *Coupagezia woutersi* Cappetta
 Formation: unknown
 Locality: Oued-Zem, Morocco
 Age: Palaeocene (Thanetian)
 Illustrate:

No. 10748
 Name: *Ctenopristis nougareti* Arambourg
 Formation: unknown
 Locality: Morocco
 Age: Upper Cretaceous (Maastrichtian)
 Illustrate:

No. 10749
 Name: *Ctenopristis nougareti* Arambourg
 Formation: unknown
 Locality: 13 km so. from Khouribga on the road to
 Fikh-Ben-Salah, Morocco
 Age: Cretaceous (Maastrichtian)
 Illustrate:

No. 10750
 Name: *Weltonia ancistrodon* (Arambourg)
 Formation: unknown
 Locality: L'Oued Zem, S.E. of Casablanca, Morocco
 Age: Eocene (Landenian)
 Illustrate:

No. 10751

Name: *Odontaspis* sp.

Formation: Bashi Fm.

Locality: Meridian, Mississippi, USA

Age: Eocene

Illustrate:

No. 10752

Name: *Chimaera* sp. (jaw bones of ghost-shark)

Formation: Aquia Fm.

Locality: Belvidere Beach on the Virginia,
side of the Potomac River, Virginia, USA

Age: Eocene

Illustrate:

No. 10753

Name: *Isurus* sp.

Formation: Clouter Creek Dike.

Locality: Charleston Harbor, South Carolina, USA

Age: Miocene

Illustrate:

No. 10754

Name: *Carcharocles* sp.

Formation: Clouter Creek Dike.

Locality: Charleston Harbor, South Carolina, USA

Age: Miocene

Illustrate:

No. 10755

Name: *Hemipristis serra* Agassiz

Formation: Clouter Creek Dike.

Locality: Charleston Harbor, South Carolina, USA

Age: Miocene

Illustrate:

No. 10756

Name: *Carcharhinus* sp.

Formation: Clouter Creek Dike.

Locality: Charleston Harbor, South Carolina, USA

Age: Miocene

Illustrate: Plate 41

No. 10757

Name: *Cretolamna* sp.

Formation: Carlisle Shale

Locality: Upton, Wyoming, USA

Age: Cretaceous

Illustrate:

中生代・新生代軟骨魚類の分類

Mesozoic and Cenozoic Chondrichthyes (From Cappetta 1987 and Zangerl 1981)

Systematics:

Class Chondrichthyes Huxley 1880

Subclass Elasmobranchii Bonaparte 1838

Order Xenacanthiformes Berg 1955

Family Xenacanthidae Fritsch 1889

Genus *Orthacanthus* Agassiz 1843

[*Diplodus* Agassiz 1843]

[*Dittodus* Owen 1867]

Orthacanthus cylindricus Agassiz 1843

Pleuracanthus parvidens Woodward 1908

Xenacanthus moorei

軟骨魚綱

板鰓亜綱

クセナカントウス目

クセナカントウス科

Order Eugeneodontiformes Zangerl 1981

Family Edestidae Jaekel 1899

Parahelicampodus spaercki Nielsen 1952

(see Zangerl for further details)

Cohort Euselachii Hay 1902

エウゲネオドウス目

エデストウス科

Superfamily Ctenacanthoidea Zangerl 1981

Family Phoeboodontiae Williams 1979

Genus *Phoebodus* St. John & Worthen 1875

Phoebodus sophiae St. John & Worthen 1875

Genus *Acronemus* Rieppel 1982

フェボドウス科

Superfamily Hybodontoidae Zangerl 1981

Family Hybodontidae Owen 1846

Genus *Hybodus* Agassiz 1837

Hybodus reticulatus Agassiz 1837

Hybodus montanesis Case 1978

Hybodus wyomingensis Case 1987

Hybodus longiconus Agassiz

10001

Hybodus rugosus (Agassiz)

10003

Hybodus grossiconus Agassiz

10004

Hybodus delabechei Charlesworth

10005

Hybodus sp.

10002, 10006

Genus *Pororhiza* Casier 1969

TYPE SPECIES: *Pororhiza molimbaensis* Casier 1969

ヒボドウス科

Genus *Priohybodus* Erasmo 1960

TYPE SPECIES: *Priohybodus arambourgi* d'Erasmo 1960

Family Acrodontidae Casier 1959

アクロドウス科

Genus *Acrodus* Agassiz 1837

TYPE SPECIES: *Acrodus gaillardoti* Agassiz 1837

10008

Acrodus lateralis Agassiz

10000,10007

Acrodus acutus (Agassiz)

10010

Acrodus braunii Agassiz

10011

Acrodus nobilis Agassiz

10012,10013

Acrodus sp.

10009,10014

Genus *Asteracanthus* Agassiz 1837

[*Strophodus* Agassiz 1838]

Asteracanthus ornatissimus Agassiz 1837

7314

Asteracanthus ornatissimus Agassiz var. *A.flettonensis* Woodward

10018

Asteracanthus (Strophodus) reticulatus (Agassiz)

10015

Asteracanthus (Strophodus) tenius Agassiz

10017

Asteracanthus magnus (Agassiz)

10016

Genus *Bdellodus* Quenstedt 1882

Bdellodus bollensis Quenstedt 1882

Family Polyacrodontidae Glikman 1964

ポリアクロドウス科

[*Lonchidiidae* Herman 1977]

Genus *Lissodus* Brough 1935

[*Lonchidion* Estes 1964]

Lissodus babulskii (Cappetta & Case) 1975

Lissodus griffisi Case 1987

TYPE SPECIES: *Hybodus africanus* Broom 1909

Genus *Palaeobates* Meyer 1849

TYPE SPECIES: *Strophodus angustissimus* Agassiz 1838

Genus *Polyacrodus* Jaekel 1889

Polyacrodus angulatus Stensio 1921

Polyacrodus woodwardi Dollo 1929

Family Ptychodontidae Jaekel 1898

プティコドウス科

Genus *Hylaeobatis* Woodward 1916

TYPE SPECIES: *Acrodus ornatus* Woodward 1899

Genus *Ptychodus* Agassiz 1838

Ptychodus mammillaris Agassiz 1839

10019,10020,10021,10022,10026,10027,10044

Ptychodus decurrens Agassiz 1839
7315

Ptychodus latissimus Agassiz 1843

Ptychodus mortoni Agassiz 1843

Ptychodus oweni Dixon 1850

Ptychodus polygyrus Agassiz 1839

Ptychodus rugosus Dixon 1850

Ptychodus whipplei Marcou 1858
10038

Ptychodus sp.

10023, 10024, 10025, 10028, 10029, 10030, 10031, 10032, 10033, 10034,
10035, 10036, 10037, 10039, 10040, 10041, 10042, 10043

Family Steinbachodontidae Reif 1980

スタインバコドウス科

Genus *Steinbachodus* Reif 1980

Steinbachodus estheriae Reif 1980

Hybodontoidae incertae familiae

Hybodontoidae?

Genus *Raineria* Osswald 1929

Raineria osswaldi Cappetta 1987 TYPE

Family Pseudodalatiidae Reif 1978

Genus *Pseudodalatias* Reif 1978

プセウドダラティアス科

TYPE SPECIES: *Dalatias barnstonensis* Sykes 1971

Subcohort Neoselachii Compagno 1977

Superorder Squalomorphii Compagno 1973

Order Hexanchiformes Buen 1926

カグラザメ目

Suborder Chlamydoselachioidei Berg 1958

ラブカ亜目

Family Chlamydoselachidae Garman 1884

ラブカ科

Genus *Chlamydoselachus* Garman 1884

ラブカ属

[*Chlamydoselachoides* Fowler 1947]

Chlamydoselachus anguineus Garman 1884

ラブカ

Genus *Thrinax* Pfiel 1983

TYPE SPECIES: *Thrinax baumgartneri* Pfiel 1983

Suborder Hexanchioidei Garman 1913

カグラザメ亜目

Family Hexanchidae Gray 1851

カグラザメ科

[*Eonotidanidae* Pfiel 1983]

Genus *Eonotidanus* Pfiel 1983

TYPE SPECIES: *Notidanus contrarius* Münster 1843

Genus *Hexanchus* Rafinesque 1810

カグラザメ属

[*Notidanus* Cuvier 1817]

TYPE SPECIES: *Squalus griseus* Bonnaterre 1788

Hexanchus agassizi Cappetta 1976
10738

Hexanchus gigas (Sismonda) 1857

Hexanchus gracilis (Davis) 1887

Hexanchus microdon (Agassiz) 1843

7372, 10045, 10739

Hexanchus sp.

- 10046
 Genus *Notidanodon* Cappetta 1975
 TYPE SPECIES: *Notidanus pectinatus* Agassiz 1843
Notidanodon dentatus (Woodward) 1886
Notidanodon lanceolatus (Woodward) 1886
Notidanodon loozi (Vincent) 1876
- Genus *Notorhynchus* Ayres 1855 エビスザメ属
 [*Notidanion* Jordan & Hannibal 1923]
 TYPE SPECIES: *Notorhynchus maculatus* Ayres 1855 Recent
Notorhynchus aptiensis (Pictet) 1865
Notorhynchus primigenius (Agassiz) 1843
 7360, 10047, 10048
Notorhynchus cf. *N. primigenius* (Agassiz)
 7284
Notorhynchus serratissimus (Agassiz) 1843
Notorhynchus sp.
 7283
- Genus *Weltonia* Ward 1979
 TYPE SPECIES: *Notidanus (Heptanchias) ancistrodon* Arambourg 1952
Weltonia ancistrodon (Arambourg)
 10750
- Family Heptanchidae Barnard 1925 エドアブラザメ科
 Genus *Heptanchias* Rafinesque 1810 エドアブラザメ属
 [*Heptanchus* Müller et Henle 1839]
 TYPE SPECIES: *Squalus cinereus* Gmelin 1789 Recent
Heptanchias howelli (Reed) 1946
Heptanchias perlo (Bonnaterre) 1788 Recent エトアブラザメ
- Genus *Paraheptanchias* Pfeil 1981
 TYPE SPECIES: *Notidanus repens* (partim) Probst 1879
 = *Notidanus avenionensis* Joleaud 1912
- Family Orthacodontidae Beaumont 1960 オルタコドウス科
 [*Orthacodidae* Glikman 1957]
 Genus *Sphenodus* Agassiz 1843
 [*Orthacodus* Woodward 1889]
 TYPE SPECIES: *Lamna (Sphenodus) longidens* Agassiz 1843
- Order Squaliformes Goodrich 1909 ツノザメ目
 Family Echinorhinidae Gill 1862 キクザメ科
 Genus *Echinorhinus* Blainville 1816 キクザメ属
 [*Goniodus* Agassiz 1838]
 TYPE SPECIES: *Squalus brucus* Bonnaterre 1788 Recent
 = *Squalus spinosus* Gmelin 1789
Echinorhinus blakei Agassiz 1856
 10049
Echinorhinus priscus Arambourg 1952
Echinorhinus weltoni Pfeil 1983
- Genus *Paraechinorhinus* Welton (in Pfeil) 1983
 TYPE SPECIES: *Paraechinorhinus barnesi* Welton (in Pfeil) 1983 TYPE
 Genus *Pseudoechinorhinus* Pfeil 1983

TYPE SPECIES: *Pseudoechinorhinus mackinnoni* Pfeil 1983

- Family Squalidae Bonaparte 1834 ツノザメ科
Subfamily Squalinae Bonaparte 1834
Genus *Centrophoroides* Davis 1887
 Centrophoroides latidens Davis 1887
Genus *Centrophorus* Müller et Henle 1837 アイザメ属
 Centrophorus granulosus Müller et Henle 1837 Recent クロアザメ
Genus *Centrosqualus* Signeux 1950
 TYPE SPECIES: *Squalus primaevus* Pictet 1850
 (*Centrosqualus* teeth isolated-refer to *Centrophoroides* Davis)
Genus *Deania* Jordan & Snyder 1902 ヘラツノザメ属
 TYPE SPECIES: *Deania eglantina* Jordan & Snyder 1902 Recent
Genus *Megasqualus* Herman 1982
 TYPE SPECIES: *Notidanus orpiensis* Winkler 1874
Genus *Protosqualus* Cappetta 1977
 TYPE SPECIES: *Protosqualus sigei* Cappetta 1977
Genus *Squalogaleus* Maisey 1976
 TYPE SPECIES: *Squalogaleus woodwardi* Maisey 1976
Genus *Squalus* Linnaeus 1758 ツノザメ属
 TYPE SPECIES: *Squalus acanthias* Linnaeus 1758 Recent アラザメ
 Squalus minor (Daimeries) 1888
 Squalus serriculus Jordan & Hannibal 1923
 Squalus worlandensis (Case)
 Squalus sp.
 10050,10051,10052,10053
- Subfamily Etmopterinae Fowler 1934 カラスザメ亜科
Genus *Etmopterus* Rafinesque 1810 カラスザメ属
 [*Spinax* Cloquet 1816 / *Spinax* Cuvier 1817]
 TYPE SPECIES: *Etmopterus aculeatus* Rafinesque 1810 Recent
 = *Squalus spinax* Linnaeus 1758, by monotypy Recent
- Subfamily Oxynotinae Gill 1872 オロシザメ亜科
Genus *Oxynotus* Rafinesque 1810 オロシザメ属
 [*Centrina* Cuvier 1817]
 TYPE SPECIES: *Squalus centrina* Linnaeus 1758 Recent
 Oxynotus crochardi Welton 1981
Genus *Protoxynotus* Herman 1975
 TYPE SPECIES: *Protoxynotus misburgensis* Herman
- Subfamily Somniosinae Jordan 1888 オンデンザメ亜科
Genus *Cretascymnus* Cappetta 1980
 TYPE SPECIES: *Centrophorus adonis* Signeux 1950
Genus *Scymnodon* Bocage and Capello 1864 ビロウドザメ属 (イナヅメ属)
 TYPE SPECIES: *Scymnodon ringens* Bocage & Capello 1864
Genus *Somniosus* Lesueur 1818 オンデンザメ属
 TYPE SPECIES: *Somniosus brevipinna* Lesueur 1818 Recent
Genus *Scymnorhinus* Bonaparte 1846
 TYPE SPECIES: *Scymnorhinus lichia* Bonaparte 1846 Recent
Genus *Isistius* Gill 1864 ダルマザメ属

TYPE SPECIES: *Scymnus brasiliensis* Quoy & Gaimard 1824 Recent タ'ルサ'メ
 Genus *Squaliosus* Smith & Radcliffe 1912 ツラナガコビトサメ属
 TYPE SPECIES: *Squaliosus laticaudus* Smith & Radcliffe 1912 Recent オオメコビトサ'メ
 ? Squalidae incertae sedis
 Genus *Centropterus* Costa 1861
 TYPE SPECIES: *Centropterus lividus* Costa 1861

Order Pristiophoriformes Berg 1958 ノコギリサメ目
 Family Pristiophoridae Bleeker 1859 ノコギリサメ科
 Genus *Ikamauius* Keyes 1979
 TYPE SPECIES: *Trygon ensifer* Davis 1888
 Genus *Pliotrema* Regan 1906
 TYPE SPECIES: *Pliotrema warreni* Regan 1906 Recent
 Genus *Pristiophorus* Müller et Henle 1837 ノコギリサメ属
 [*Propristiophorus* Woodward 1932]
 TYPE SPECIES: *Pristis cirratus* Latham 1793 プリスティオフォルス キラトウス
Pristiophorus lineatus Applegate & Uyeno 1968
Pristiophorus sp.
 7356,10054,10055,10056

Superorder Squalomorphii? Compagno 1973
 Family Protospinacidae Woodward 1919 プロトスピナクス科
 Genus *Protospinax* Woodward 1919
 TYPE SPECIES: *Protospinax annectans* Woodward 1919

Superorder Squatinomorphii Compagno 1973 カスザメ上目
 Order Squatiniformes Buen 1926 カスザメ目
 Family Squatinidae Bonaparte 1838 カスザメ科
 Genus *Squatina* Dumeril 1906 カスザメ属
Squatina hassei Leriche 1929
 10057
Squatina subserata Münster 1846
Squatina prima (Winkler)
 10062
Squatina sp.
 10058,10059,10060,10061,10063?10064,10065,10066
 TYPE SPECIES: *Squalus squatina* Linnaeus 1758 Recent

Superorder Galeomorphii Compagno 1973 ネズミサメ上目
 Order Heterodontiformes Berg 1937 ネコサメ目
 Family Heterodontidae Gray 1851 ネコサメ科
 Genus *Heterodontus* Blainville 1816 ネコサメ属
Heterodontus janefirdae Case 1980
Heterodontus rugosus (Agassiz) 1839
Heterodontus pineti Case 1981
Heterodontus sp.
 10067,10068

Order Orectolobiformes Applegate 1972 テンジグサメ目
 Family Hemiscylliidae Gill 1862
 Genus *Acanthosyllium* Cappetta 1980

- TYPE SPECIES: *Scyllium sahelalmae* Pictet & Humbert
 Genus *Almascyllium* Cappetta 1980
 TYPE SPECIES: *Chiloscyllium cheikheliasi* Signeux 1949
 Genus *Chiloscyllium* Müller et Henle 1837 テンジグザメ属
 Chiloscyllium greeni (Cappetta) 1973
 Genus *Hemiscyllium* Smith 1837 モンツキテンジグザメ属
 TYPE SPECIES: *Squalus ocellatus* Bonnaterre 1788 Recent
 Hemiscyllium bruxelliensis Herman 1977
 Genus *Mesiteia* Kramberger 1885
 TYPE SPECIES: *Mesiteia emiliae* Kramberger 1885
- Family Orectolobidae Jordan & Fowler 1903 テンジグザメ科
 Genus *Cetorectolobus* Case 1978
 TYPE SPECIES: *Cetorectolobus olsoni* Case 1978
 10069
 Genus *Orectoloboides* Cappeta 1977
 TYPE SPECIES: *Ginglymostoma parvula* Dalinkevicius 1935
 Genus *Paraginglymostoma* Herman 1982
 TYPE SPECIES: *Paraginglymostoma bloti* Herman 1982
 Genus *Squatiscyllium* Cappetta 1980
 TYPE SPECIES: *Squatina nigeriensis* White 1934 TYPE
- Family Parascylliidae Gill 1862 パラスキリウム科
 Genus *Pararhincodon* Herman in Cappetta 1976
 TYPE SPECIES: *Pararhincodon crochardi* Herman 1977
 Pararhincodon ypresiensis Cappetta 1976
- Family Brachaeluridae Applegate 1972
 Genus *Brachaelurus* Ogilby 1906 ブラケルルス科
 TYPE SPECIES: *Chiloscyllium modestum* Günther 1871 Recent
 Brachaelurus roklumensis Thies 1981
 Brachaelurus bighornensis Case 1987
 Genus *Eostegostoma* Herman 1977
 TYPE SPECIES: *Eostegostoma angustum* (Nolf & Taverne) 1977
 Genus *Palaeobrachaelurus* Thies 1983
 TYPE SPECIES: *Palaeobrachaelurus bedfordensis* Thies 1983
 Palaeobrachaelurus alisonae Thies 1983
- Family Ginglymostomatidae Gill 1862 コモリザメ科
 Genus *Cantioscyllium* Woodward 1889
 TYPE SPECIES: *Cantioscyllium decipiens* Woodward 1889
 Genus *Ginglymostoma* Müller et Henle 1837 コモリザメ属
 TYPE SPECIES: *Squalus cirratus* Gmelin 1789 Recent
 Ginglymostoma africanum Leriche 1927
 7373
 Ginglymostoma angolense Darteville & Casier 1943
 10071
 Ginglymostoma delfortriei Daimeries 1889
 Ginglymostoma globidens Cappetta & Case 1975
 10073
 Ginglymostoma lehneri Leriche 1938

- Ginglymostoma minutum* (Forir) 1887
Ginglymostoma rugosum Darteville & Casier 1943
Ginglymostoma serra (Leidy) 1877
Ginglymostoma subafricanum Arambourg 1952
 7375,10070
Ginglymostoma sp.
 10072
- Genus *Nebrius* Rüppel 1837 オオテンジクサメ属
 TYPE SPECIES: *Nebrius concolor* Rüppell 1837 Recent
Nebrius blanchenhorni (Stromer) 1905
 10075,10076
Nebrius thielensis (Winkler) 1873
 10074
Nebrius maghrebianum (Casier)
 7374
Nebrius sp.
 10077
- Genus *Protoginglymostoma* Herman 1977
 TYPE SPECIES: *Ginglymostoma ypresiensis* Casier 1946
- Family Rhincodontidae Garman 1913 ジンベイサメ科
 Genus *Rhincodon* Smith 1829 ジンベイサメ属
 [*Rhiniodon* Smith 1828]
 TYPE SPECIES: *Rhincodon typus* Smith 1829 Recent ジンベイサメ
 Genus *Palaeorhincodon* Herman 1974
 TYPE SPECIES: *Palaeorhincodon wardi* Herman 1974
- Orectolobiformes incertae familiae
 Genus *Annea* Thies 1983
 TYPE SPECIES: *Annea carinata* Thies 1983
 Genus *Agaleus* Duffin & Ward 1983
 TYPE SPECIES: *Agaleus dorsetensis* Duffin & Ward 1983
 Genus *Phorcynis* Thiolliere 1854
 [*Crossorhinus* Müller et Henle sensu Woodward 1918]
 [*Palaeocrossorhinus* Fowler 1947]
 TYPE SPECIES: *Phorcynis catulina* Thiolliere 1854
 Genus *Palaeoscyllium* Wagner 1857
Palaeoscyllium formosum Wagner 1857
- Order Lamniformes Berg 1958 ネズミサメ目
 Family Odontaspidae Müller et Henle 1839 ミズワニ科
 [Jaekelodontidae Glikman 1964]
 Genus *Hispidaspis* Sokolov 1978
 TYPE SPECIES: *Scapanorhynchus gigas* Woodward 1889
Hispidaspis horrida Sokolov 1978
Hispidaspis prisca Sokolov 1978
 Genus *Hypotodus* Jaekel 1895
 TYPE SPECIES: *Hypotodus verticalis* Agassiz 1843
Hypotodus robustus (Leriche)
 10078,10079,10080,10081,10082
 Genus *Jaekelotodus* Menner 1928
 TYPE SPECIES: *Hypotodus trigonalis* Jaekel 1895

Genus *Odontaspis* Agassiz 1838

シロワニ属 (オオワニザメ属?)

TYPE SPECIES: *Squalus ferox* Risso 1810

Odontaspis aculeatus (Cappetta & Case) 1975

Odontaspis grandis (Case) 1978

Odontaspis speyeri Darteville & Casier 1943

Odontaspis winkleri Leriche 1905

10183

Odontaspis cuspidata Agassiz

7292

Odontaspis verticalis Agassiz

10090

Odontaspis crassidens (Dixon)

10098

Odontaspis sp.

7289, 7295, 7322, 7324, 7329, 7330, 7353, 7361, 10083, 10084, 10085, 10087,
10088, 10089, 10092, 10093, 10094, 10095, 10096, 10097, 10100, 10101, 10102, 10103,
10104, 10105, 10106, 10107, 10108, 10109, 10110, 10111, 10112, 10113, 10114, 10115,
10116, 10117, 10119, 10120, 10121, 10122, 10123, 10124, 10125, 10126, 10127, 10128,
10129, 10130, 10131, 10132, 10133, 10134, 10135, 10136, 10137, 10138, 10139, 10140,
10141, 10142, 10143, 10144, 10145, 10146, 10147, 10148, 10149, 10150, 10151, 10152,
10153, 10154, 10155, 10156, 10157, 10158, 10159, 10160, 10161, 10162, 10163, 10164,
10165, 10166, 10167, 10168, 10169, 10170, 10171, 10172, 10173, 10174, 10175, 10176,
10177, 10178, 10179, 10180, 10181, 10182, 10184, 10185? 10186, 10187, 10188, 10189,
10190, 10191, 10192, 10193, 10194, 10195, 10196, 10751

Odontaspis spp.

7305, 7313

Carcharias steineri (Case)

10091

Genus *Pseudodontaspis* Case 1987

TYPE SPECIES: *Pseudodontaspis herbsti* Case 1987

Genus *Palaeohypotodus* Glikman 1964

Palaeohypotodus sp.

10585

TYPE SPECIES: *Odontaspis rutoti* Winkler 1874

Genus *Striatolamia* Glikman 1964

TYPE SPECIES: *Otodus macrotus* Agassiz 1843

Striatolamia striata (Winkler) 1874

10204, 10206, 10207, 10210

Striatolamia whitei (Arambourg) 1952

Striatolamia macrotus (Agassiz)

7341, 10197, 10198, 10199, 10200, 10201, 10202, 10203, 10205, 10208,
10209, 10211, 10213, 10214, 10215, 10216, 10217, 10218, 10222, 10223,
10224, 10225, 10226, 10227, 10228, 10229, 10230, 10231, 10232

Striatolamia sp.

10212, 10219, 10220, 10221

Genus *Synodontaspis* White 1931

TYPE SPECIES: *Carcharias taurus* Rafinesque 1810 Recent

Synodontaspis acutissima (Agassiz) 1844

7355, ~~10086~~, 10239, 10241

Synodontaspis cuspidata (Agassiz) 1843

7363, 10235, 10237, 10238, 10240, 10243

Synodontaspis holmdelensis (Cappetta & Case) 1975
Synodontaspis hopei (Agassiz) 1843
Synodontaspis koerti (Stromer) 1910
Synodontaspis teretidens White 1931
 10242
Synodontaspis (cuspidata) teretidens White
 10099
Synodontaspis vincenti (Winkler)
 10233
Synodontaspis substriata (Stromer)
 10234
Synodontaspis macrota (Agassiz)
 10236
Synodontaspis sp.
 7364

Family Mitsukurinidae Jordan 1898

ミツクリザメ科

[Anomotodontidae Herman 1979]

Genus *Anomotodon* Arambourg 1952

TYPE SPECIES: *Anomotodon plicatus* Arambourg 1952

Anomotodon cravenensis Case 1980

Anomotodon sheppeyensis (Casier) 1966

Anomotodon sp.

10244

Genus *Mitsukurina* Jordan 1898

ミツクリザメ属

TYPE SPECIES: *Mitsukurina owstoni* Jordan 1898 Recent

(now *Scapanorhynchus owstoni* (Jordan))

Mitsukurina lineata (Probst) 1879

Mitsukurina maslinensis (Pledge) 1967

Genus *Scapanorhynchus* Woodward 1889

Scapanorhynchus texanus (Roemer) 1849

7335, 7343, 10245, 10246, 10247, 10248, 10249, 10250, 10253, 10256, 10258,

10262, 10267, 10268, 10269

Scapanorhynchus raphiodon Agassiz 1844

Scapanorhynchus sp.

10251, 10252, 10254, 10255, 10257, 10259, 10260, 10261, 10263, 10264, 10265, 10266

TYPE SPECIES: *Rhinognathus lewisii* Davis 1887

Family Lamnidae Müller et Henle 1838

ネズミザメ科

Genus *Carchariolamna* Hora 1939

TYPE SPECIES: *Carchariolamna heroni* Hora 1939

Genus *Carcharodon* Müller et Henle 1838

ホホジロザメ属

TYPE SPECIES: *Squalus carcharias* Linnaeus 1758 Recent

Carcharodon sulcidens (Linnaeus)

7349, 7350

Carcharodon carcharias (Linnaeus)

7282, 10270, 10271, 10272, 10273, 10275, 10276, 10278, 10280

Carcharodon sp.

10274, 10277, 10279

Genus *Carcharoides* Ameghino 1901

TYPE SPECIES: *Carcharoides totuserratus* Ameghino 1901

- Carcharoides caticus* (Phillipi) 1846
 Genus *Isurolamna* Cappetta 1976
 TYPE SPECIES: *Odontaspis hopei* var. *O. affinis* Casier 1946
 Genus *Isurus* Rafinesque 1810 アオザメ属
 TYPE SPECIES: *Isurus oxyrinchus* Rafinesque 1810 Recent
Isurus hastalis (Agassiz) 1843
 7276, 7321, 7334, 7351, 7362, 10281, 10287, 10288, 10289, 10291, 10292,
 10293, 10294, 10295, 10296, 10302, 10305, 10307, 10310 10086
Isurus planus (Agassiz) 1856
 7352, 7354, 10301
Isurus praecursor (Leriche) 1905
 10284, 10290
Isurus retroflexus (Agassiz) 1843
Isurus macrorhiza Pictet & Campiche
 10286
Isurus sp.
 7309, 7331, 10282, 10283, 10285, 10297, 10298, 10299, 10300, 10303, 10304,
 10306, 10308, 10309, 10311, 10312, 10753
 Genus *Lamna* Cuvier 1817 ネズミザメ属
 TYPE SPECIES: *Squalus cornubicus* Gmelin in Linnaeus 1789 Recent
Lamna sp.
 10313
 Genus *Xiphodolamia* Leidy 1877
Xiphodolamia eoacna (Woodward) 1889
 TYPE SPECIES: *Xiphodolamia ensis* Leidy 1877
 10314
- Family Cretoxyrhinidae Glikman 1958 クレトクシリナ科
 Genus *Cretodus* Sokolov 1965
 TYPE SPECIES: *Otodus semiplicatus* Münster (in Agassiz) 1843
Cretodus borodini (Cappetta & Case) 1975
Cretodus crassidens (Dixon) 1850
Plicatolamna arcuata (Woodward) 1894 sensu stricto
Cretodus (Plicatolamna) arcuata (Woodward)
 10317, 10318, 10319, 10320, 10324, 10325, 10326, 10327
Cretodus sp.
 10315, 10316, 10321, 10322, 10323
 Genus *Cretolamna* Glikman 1958
 TYPE SPECIES: *Lamna appendiculata* Agassiz 1843
Cretolamna appendiculata (Agassiz) 1843
 7307, 7336, 7340, 10328, 10333, 10335, 10336, 10340, 10341, 10342, 10344,
 10349, 10360, 10364, 10368, 10375, 10392, 10398
Cretolamna biauriculata maroccana Arambourg 1935
 7303, 10355
Cretolamna aschersoni (Stromer) 1905
 10383, 10391, 10394
Cretolamna twiggsensis (Case) 1981
Cretolamna woodwardi Herman
 10332
Cretolamna biauriculata (Wanner)
 10337

- Cretolamna biauriculata* var. *C. maroccana* (Arambourg)
10330,10359,10377
- Cretolamna sulcata* (Geinitz)
10334
- Cretolamna caraibaea* var. *C. africana* (Darteville & Casier)
10331
- Cretolamna* sp.
10329,10339,10345,10346,10347,10348,10351,10352,10356,10357,
10361,10362, 10363,10365,10366,10367,10369,10370,10371,10372,
10373,10374,10378,10379, 10380,10381,10382,10384,10385,10386,
10388,10389,10390,10393,10395,10396,10397,10399,10757
- Serratolamna amonensis* (Cappetta & Case)
10118
- Serratolamna serrata* (Agassiz)
10338,10343,10350,10353,10354,10358,10376,10387
- Genus *Cretoxyrhina* Glikman 1958
- Cretoxyrhina mantelli* (Agassiz) 1843
10642
- TYPE SPECIES: *Isurus denticulatus* Glikman 1957
- Genus *Leptostyrax* Williston 1900
- TYPE SPECIES: *Leptostyrax bicuspidatus* Williston 1900
- Genus *Palaeocarcharodon* Casier 1960
- Palaeocarcharodon orientalis* (Sinzow) 1899
species: *landanensis* Leriche 1919 in synonymy Case 1989
- Genus *Paraisurus* Glikman 1957
- TYPE SPECIES: *Oxyrhina macrorrhiza* Pictet & Campiche 1858
- Paraisurus compressus* Glikman 1978
Paraisurus elegans Glikman 1978
Paraisurus lanceolatus Glikman 1978
- Genus *Protolamna* Cappetta 1980
- Protolamna sokolovi* Cappetta 1980
Protolamna sp.
10400
- Genus *Pseudoisurus* Glikman 1957
- TYPE SPECIES: *Pseudoisurus tomosus* Glikman 1957
- Family Otodontidae Glikman 1964
- Genus *Carcharocles* Jordan & Hannibal 1923
- Carcharocles angustidens* (Agassiz) 1843
10405
- Carcharocles debrayi* (Leriche) 1906
Carcharocles sokolowi (Jaekel)
Carcharocles megalodon (Charlesworth)
7291, 7296, 7332,10406,10407,10412,10416,10417,10419,10420,10422,
10423,10425
- Carcharocles* sp.
7320,10402,10404,10408,10409,10410,10411,10413,10414,10415,10418,
10421, 10424,10754
- TYPE SPECIES: *Carcharocles auriculatus* (Blainville) 1818
7333,10403
- Carcharocles* cf. *C. auriculatus* Blainville

- 10401
 Genus *Otodus* Agassiz 1843
 TYPE SPECIES: *Otodus obliquus* Agassiz 1843
 7319, 7344, 10426, 10427, 10428, 10429, 10430, 10432, 10433, 10434
 not *Lamna obliqua* (Agassiz)
Otodus sp.
 10431
 Genus *Parotodus* Cappetta 1980
 TYPE SPECIES: *Isurus benedeni* Le Hon 1871
Parotodus benedeni (Le Hon)
 7286
- Family Alopiidae Bonaparte 1838
 Genus *Alopias* Rafinesque 1810
 TYPE SPECIES: *Alopias macrourus* Rafinesque 1810
Alopias hassei (Noetling) 1885
Alopias latidens (Leriche) 1909
Alopias leensis Ward 1978
Alopias superciliosus (Lowe) 1840
Alopias cf. *A. superciliosus* (Lowe)
 7287
Alopias cf. *A. vulpinus* (Bonnaterre)
 10435
Alopias vulpinus (Bonnaterre) (recent and fossil)
 Genus *Paranomotodon* Herman in Cappetta & Case 1975
 TYPE SPECIES: *Oxyrhina angustidens* Reuss 1845
Paranomotodon angustidens (Reuss) 1845
 10438
Paranomotodon sp.
 10436, 10437
- Family Cetorhinidae Gill 1862
 Genus *Cetorhinus* Blainville 1816
 TYPE SPECIES: *Squalus maximus* Gunner 1765
Cetorhinus occidentalis (Jordan & Hannibal) 1923
- Family Anacoracidae Casier 1947
 Genus *Pseudocorax* Priem 1897
Pseudocorax granti Cappetta & Case 1975
Pseudocorax laevis (Leriche) 1906
 10443
 TYPE SPECIES: *Corax affinis* Münster (in Agassiz) 1843
Pseudocorax affinis (Münster)
 10439, 10440, 10441
Pseudocorax sp.
 10442
 Genus *Microcorax* Cappetta and Case 1975
 TYPE SPECIES: *Microcorax crassus* Cappetta & Case 1975
 Genus *Paracorax* Cappetta 1977
 TYPE SPECIES: *Galeocerdo jaekeli* Woodward 1895
 Genus *Squalicorax* Whitley 1939

オナガザメ科
 オナガザメ属

ハチワレ

マナカ

ウバザメ科
 ウバザメ属

- Squalicorax falcatus* (Agassiz) 1843
 10450,10451,10452,10453,10454,10471,10479,10480,10481,10483,
 10485,10486, 10488,10489,10490,10492,10493,10497,10498,10505
- Squalicorax kaupi* (Agassiz) 1843
 7297,10446,10448,10455,10456,10457,10458,10459,10460,10463,10468,
 10472, 10475,10476,10478,10482,10503,10504,10506
- TYPE SPECIES: *Corax pristodontus* Agassiz 1843
- Squalicorax pristodontus* (Agassiz) 1843
 7337, 7345,10444,10447,10461,10462,10465,10467,10469,10470,10473,
 10474, 10477,10484,10487,10494,10495,10496
- Squalicorax yangaensis* (Darteville & Casier)
 10449
- Squalicorax* sp.
 10252,10445,10464,10466,10491,10499,10500,10501,10502
- ? Lamniformes incertae familiae
- Genus *Palaeocarcharias* De Beaumont 1960
- TYPE SPECIES: *Palaeocarcharias stromeri* De Beaumont 1960
- Order Carcharhiniformes Compagno 1973
- Family Scyliorhinidae Gill 1862
- The genus *Scyliorhinus* is heterogeneous
- Genus *Galeus* Rafinesque 1810
- TYPE SPECIES: *Galeus melastomus* Rafinesque 1810
- Genus *Macrourogaleus* Fowler 1947
- TYPE SPECIES: *Pristiurus hassei* Woodward 1889
- Genus *Megascyliorhinus* Cappetta and Ward 1977
- Megascyliorhinus miocaenicus* (Antunes & Jonet) 1970
- TYPE SPECIES: *Megascyliorhinus cooperi* Cappetta & Ward 1977
- Genus *Protoscyliorhinus* Herman 1977
- TYPE SPECIES: *Protoscyliorhinus bettrechensis* Herman 1977
- Genus *Pteroscylidium* Cappetta 1980
- Pteroscylidium dubertreti* Cappetta 1980
- TYPE SPECIES: *Pteroscylidium signeuxi* Cappetta 1980
- Genus *Scyliorhinus* Blainville 1816
- TYPE SPECIES: *Squalus canicula* Linnaeus 1758 Recent
- Scyliorhinus arambourgi* Cappetta 1980
- Scyliorhinus bloti* Cappetta 1980
- Scyliorhinus burnhamensis* Cappetta 1976
- Scyliorhinus casieri* Cappetta 1976
- Scyliorhinus coupatezi* Herman 1974
- Scyliorhinus distans* (Probst) 1879
- Scyliorhinus gilberti* Casier 1946
- Scyliorhinus joleaudi* Cappetta 1970
- Scyliorhinus subulidens* Arambourg 1952
 10509
- Scyliorhinus woodwardi* Cappetta 1976
- Scyliorhinus brivesi* Arambourg
 10507
- Scyliorhinus africanus* Arambourg
 10508
- Scyliorhinus* sp.

メジロザメ目

トラザメ科

ヤモリザメ属

トラザメ属

Family Triakidae Gray 1851

ドチザメ科

Tribe Galeorhinini Gill 1862

Genus *Galeorhinus* Blainville 1816TYPE SPECIES: *Squalus galeus* Linnaeus 1758 Recent*Galeorhinus cuvieri* (Agassiz) 1835*Galeorhinus girardoti* Herman 1977*Galeorhinus lefevrei* (Daimeries) 1891*Galeorhinus minor* (Agassiz) 1843*Galeorhinus minutissimus* Arambourg 1952

10512

Galeorhinus ypresiensis Casier 1946*Galeorhinus* sp.

7288, 7311, 10511, 10513, 10514, 10515, 10516, 10517, 10518

Tribe Triakini Gray 1851

Genus *Archaeotriakis* Case 1978TYPE SPECIES: *Archaeotriakis rochelleae* Case 1978*Archaeotriakis ornatus* Case 1987Genus *Mustelus* Linck 1730

ホシザメ属

TYPE SPECIES: *Squalus mustelus* Linnaeus 1758 Recent*Mustelus vanderhoefti* Herman 1982*Mustelus whitei* Cappetta 1976Genus *Palaeogaleus* Gurr 1962TYPE SPECIES: *Scyllium vincenti* Daimeries 1888*Palaeogaleus brivesi* (Arambourg) 1952*Palaeogaleus faujasi* (Van De Geyn) 1937*Palaeogaleus havreensis* Herman 1977Genus *Paratriakis* Herman 1977TYPE SPECIES: *Paratriakis bethrechiensis* Herman 1977*Paratriakis curtirostris* (Davis) 1887Genus *Triakis* Müller et Henle 1838

ドチザメ属

TYPE SPECIES: *Triakis scyllium* Müller & Henle 1838 Recent

ドチザメ

Triakis angustidens Cappetta 1973*Triakis ruetimeyeri* Casier 1958*Triakis wardi* Cappetta 1976

Family Hemigaleidae Hasse 1879 (1885)

ヒレトガリザメ科

Genus *Chaenogaleus* Gill 1862*Chaenogaleus macrostoma* Gill 1862Genus *Paragaleus* Budker 1935TYPE SPECIES: *Paragaleus gruveli* Budker 1935*Paragaleus pulchellus* (Jonet) 1966Genus *Hemipristis* Agassiz 1843

カマヒレザメ属

[*Dirrhizodon* Klunzinger 1871][*Hennigia* Ihering 1927]TYPE SPECIES: *Hemipristis serra* Agassiz 1843

7277, 7327, 10519, 10520, 10522, 10523, 10524, 10525, 10526, 10527, 10528,

10530, 10531, 10532, 10533, 10755

Hemipristis curvatus Dames 1883*Hemipristis* sp.

10521,10529

species *uyattdurhami* White 1956 in synonymy C&C 1990 [*H.curvatus* Dames]

Family Carcharhinidae Jordan & Evermann 1896

メジロザメ科

Genus *Abdounia* Cappetta 1980

TYPE SPECIES: *Eugaleus beaugei* Arambourg

Abdounia bauriculata (Casier) 1946

Abdounia enniskilleni (White) 1956

Abdounia furimskyi (Case) 1980

Abdounia minutissima (Winkler) 1873

10534

Abdounia recticonia (Winkler) 1873

Abdounia sp.

10535,10536,10537,10538,10539,10540

Genus *Isogomphodon* Gill 1861

ツバクロザメ属

TYPE SPECIES: *Carcharias oxyrhynchus* Müller et Henle 1841 Recent

Isogomphodon acuaris (Probst) 1879

Isogomphodon caunellensis (Cappetta) 1970

Isogomphodon frequens (Dames) 1883

Isogomphodon lerichei (Dartevelle et Casier) 1943

Genus *Carcharhinus* Blainville 1816

メジロザメ属

TYPE SPECIES: *Carcharias melanopterus* Quoy & Gaimard 1824 Recent

Carcharhinus elongatus (Leriche) 1910

Carcharhinus priscus (Agassiz) 1843

10574

Carcharhinus egertoni (Agassiz) 1843

Carcharhinus sp.

7280, 7306, 7323,10541,10542,10543,10544,10545,10546,10547,10548,10549,

10550,10551,10552,10553,10554,10555,10556,10557,10558,10559,10560,10561,

10562,10563,10564,10565,10566,10567,10568,10569,10570,10571,10572,10573,

10575,10576,10577,10578,10579,10580,10581,10582,10583,10584,10756

Carcharhinus spp.

7305

Genus *Eogaleus* Cappetta 1975

TYPE SPECIES: *Eogaleus bolcensis* Cappetta 1975

Genus *Galeocерdo* Müller et Henle 1838

イタチザメ属

Galeocерdo aduncas Agassiz 1843

7325,10593,10594,10597,10600,10607,10609,10617,10619,10621

Galeocерdo contortus Gibbes 1849

7326,10586,10591,10592,10596,10598,10606,10610,10618,10620,10622,10623

Galeocерdo cuvieri (Peron & Lesueur) 1822

イタチザメ

7278,10587,10595,10604,10605,10608,10616,10625,10627

Galeocерdo eaglesomei White 1955

Galeocерdo latidens (Agassiz) 1843

10589

Galeocерdo mayumbensis Dartevelle & Casier 1943

Galeocерdo sp.

10588,10590,10599,10601,10602,10603,10611,10612,10613,10614,10615,

10624, 10626,10628,10629

Genus *Negaprion* Whitley 1940

レモンザメ属

TYPE SPECIES: *Aprionodon acutidens queenslandicus* Whitley 1939 Recent

レモンザメ

- Negaprion* sp.
10630,10631
Genus *Physogaleus* Cappetta 1980
TYPE SPECIES: *Trigonodus secundus* Winkler 1874
Physogaleus latus (Storms) 1894
Genus *Prionace* Cantor 1849 ヨシキリザメ属
TYPE SPECIES: *Squalus glaucus* Linnaeus 1758 Recent
Genus *Pterolamiops* Springer 1951
TYPE SPECIES: *Squalus longimanus* Poey 1861 Recent
Pterolamiops longimanus (Poey)
7281, 7339,10633,10635,10636
Pterolamiops sp.
10632,10634
Genus *Rhizoprionodon* Whitley 1929 ヒラガシラ属
TYPE SPECIES: *Carcharias (Scoliodon) crenidens* Klunzinger 1880 Recent
Rhizoprionodon gantourensis (Arambourg) 1952
Rhizoprionodon fischeuri (Joleaud) 1912
- Family Sphyrnidae Gill 1872 シュモクザメ科
Genus *Sphyrna* Rafinesque 1810 シュモクザメ属
TYPE SPECIES: *Squalus zygaena* Linnaeus 1758
Sphyrna arambourgi Cappetta 1970
Sphyrna sp.
10640
Carcharhiniformes incertae familiae
Genus *Palaeoscyllium* Marck 1863
TYPE SPECIES: *Palaeoscyllium dechenei* Marck 1863
- Galeomorphii incertae ordinis
Family Palaeospinacidae Regan 1906 パレオスピナクス科
Genus *Nemacanthus* Agassiz 1837
TYPE SPECIES: *Nemacanthus monilifer* Agassiz 1837
Genus *Palaeospinax* Egerton 1872
TYPE SPECIES: *Palaeospinax priscus* Egerton 1872
Genus *Paraorthacodus* Glikman 1957
TYPE SPECIES: *Sphenodus recurvus* Trautschold 1877
Paraorthacodus andersoni (Case) 1978
Paraorthacodus clarkii (Eastman) 1901
Paraorthacodus eoacenus (Leriche) 1902
Genus *Synechodus* Woodward 1888
TYPE SPECIES: *Hybodus dubrisiensis* Mackie 1863
Synechodus lerichei Herman 1977
Synechodus turneri Case 1987
Synechodus sp.
10637,10638
- ? Galeomorphii incertae sedis
Genus *Parasquatina* Herman 1982
TYPE SPECIES: *Parasquatina cappettai* Herman 1982
Genus *Reifia* Duffin 1980
TYPE SPECIES: *Reifia minuta* Duffin 1980
Neoselachii incertae ordinis

Genus *Hueneichthys* Reif 1977
 TYPE SPECIES: *Hueneichthys costatus* Reif 1977
 Genus *Odontorhynchus* Böhm 1926
 TYPE SPECIES: *Odontorhynchus pappenheimi* Böhm 1926
 Genus *Vallisia* Duffin 1982
 TYPE SPECIES: *Vallisia coppi* Duffin 1982

- Superorder Batomorphii Cappetta 1980 エイ上目
 Order Rajiformes Berg 1940 エイ目
 Suborder Rhinobatoidei Fowler 1941 サカタザメ亜目
 Family Rhynchobatidae Garman 1913 トンガリサカタザメ科
 Genus *Rhynchobatus* Müller et Henle 1837 トンガリサカタザメ属
 TYPE SPECIES: *Rhynchobatus laevis* Schneider 1810 Recent
Rhynchobatus pristinus (Probst) 1877
Rhynchobatus vincenti Jaekel 1894
- Family Rhinobatidae Müller et Henle 1838 サカタザメ科
 Genus *Arthropterus* Agassiz 1843
 TYPE SPECIES: *Arthropterus rileyi* Agassiz 1843
 Genus *Asterodermus* Agassiz 1843
 TYPE SPECIES: *Asterodermus platypterus* Agassiz 1843
 Genus *Belemnobatis* Thiollere 1854
 TYPE SPECIES: *Belemnobatis sismondae* Thiollere 1854
 Genus *Breviacanthus* Maisey 1976
 TYPE SPECIES: *Nemacanthus brevisi* Phillips 1871
 Genus *Euryartha* Agassiz 1843
 TYPE SPECIES: *Euryartha muensteri* Agassiz 1843
 Genus *Jurobatus* Thies 1983
 TYPE SPECIES: *Jurobatus cappettai* Thies 1983
 Genus *Rhinobatos* Linck 1790 サカタザメ属
 TYPE SPECIES: *Raja rhinobatos* Linnaeus 1758 Recent
Rhinobatos bruxellensis (Jaekel) 1894
Rhinobatos casieri Herman in Cappett & Case 1975
Rhinobatos incertus Cappetta 1973
 Genus *Rhombopterygia* Cappetta 1980
 TYPE SPECIES: *Rhombopterygia rajoides* Cappetta 1980
 Genus *Spathobatis* Thiollere 1854
 TYPE SPECIES: *Spathobatis bugesiacus* Thiollere 1854
Spathobatis moorbergensis Thies 1983
- Family Platyrrhinidae Jordan 1923 ウチワザメ科
 Genus *Platyrrhina* Müller et Henle 1831 ウチワザメ属
 TYPE SPECIES: *Raja sinensis* Lacépède 1803 Recent
Platyrrhina egertoni (Zigno) 1876
- Rhinobatoidei incertae sedis
 Genus *Myledaphus* Cope 1876
Myledaphus bipartitus Cope 1876
 10639
 Genus *Parapalaebates* Weiler 1930
 TYPE SPECIES: *Strophodus pygmaeus* Zittle in Quaas 1902
 Genus *Pseudohypolophus* Cappetta and Case 1975

- Pseudohypolophus mcnultyi* (Thurmond)
 10649
 TYPE SPECIES: *Hypolophus mcnultyi* Thurmond 1971
 Genus *Protoplatyrhina* Case 1978
 TYPE SPECIES: *Protoplatyrhina renae* Case 1978
 10641
 Genus *Squatirhina* Casier 1947
 TYPE SPECIES: *Squatirhina lonzeensis* Casier 1947
Squatirhina roessingi Case 1987
- Suborder Rajoidei Garman 1913
 Family Rajidae Bonaparte 1831
 Genus *Raja* Linnaeus 1758
 TYPE SPECIES: *Raja batis* Linnaeus 1758 Recent
Raja casieri Steurbaut & Herman 1978
Raja antiqua Agassiz
 7358, 10648
Raja mucronata Woodward
 7367
Raja clavata Agassiz
 7357?, 10644
Raja dux Cope
 10642, 10645, 10646, 10647
Raja sp.
 10643
 Genus *Pararaja* Cappetta 1980
 TYPE SPECIES: *Rhinobatus expansus* Davis 1887
- Family Cyclobatidae Cappetta 1980
 Genus *Cyclobatis* Egerton 1844
 TYPE SPECIES: *Cyclobatis oligodactylus* Egerton 1844
Cyclobatis major Davis 1887
Cyclobatis tuberculatus Cappetta 1980
- Suborder Sclerorhynchoidei Cappetta 1980
 Family Sclerorhynchidae Cappetta 1974
 Genus *Ankistorhynchus* Casier 1964
 TYPE SPECIES: *Ankistorhynchus lonzeensis* Casier 1964
Ankistorhynchus major Cappetta and Case 1975
Ankistorhynchus washakiensis Case 1987
 Genus *Ctenopristis* Arambourg 1940
 TYPE SPECIES: *Ctenopristis nougareti* Arambourg 1940
 10748, 10749
 Genus *Dalpiazia* Checchia-Rispoli 1933
 TYPE SPECIES: *Dalpiazia stromeri* Checchia-Rispoli 1933
 Genus *Ganopristis* Arambourg 1935
 TYPE SPECIES: *Ganopristis leptodon* Arambourg 1935
 Genus *Ischyrrhiza* Leidy 1856
Ischyrrhiza avoncola Estes 1964
 TYPE SPECIES: *Ischyrrhiza mira* Leidy 1856
 10650, 10651, 10652, 10653, 10654, 10655

ガンギエイ亜目
 ガンギエイ科
 ガンギエイ属

キクロバテイス科

スクレロリンクス亜目
 スクレロリンクス科

- Ischyrrhiza basinensis* Case 1987
 Genus *Libanopristis* Cappetta 1980
 TYPE SPECIES: *Sclerorhynchus hiram* Hay 1903
 Genus *Marchgrafia* Weiler 1935
 TYPE SPECIES: *Marchgrafia libyca* Weiler 1935
 Genus *Micropristis* Cappetta 1980
 TYPE SPECIES: *Sclerorhynchus solomonis* Hay 1903
 Genus *Onchopristis* Stromer 1917
 TYPE SPECIES: *Gigantichthys numidus* Haug 1905
Onchopristis dunklei McNulty & Slaughter 1962
 Genus *Onchosaurus* Gervais 1852
 TYPE SPECIES: *Onchosaurus radicalis* Gervais 1852
Onchosaurus pharao (Dames) 1887
 Genus *Pucapristis* Schaeffer 1963
 TYPE SPECIES: *Pucapristis branisi* Schaeffer 1963
 Genus *Schizorhiza* Weiler 1930
 TYPE SPECIES: *Schizorhiza stromeri* Weiler 1930
 Genus *Sclerorhynchus* Woodward 1889
 TYPE SPECIES: *Sclerorhynchus atavus* Woodward 1889
Sclerorhynchus sp.
 7310
 Genus *Borodinopristis* Case 1987
 TYPE SPECIES: *Borodinopristis schwimmeri* Case 1987
- Family incertae sedis (Rhinobatoidei or Sclerorhynchoidei)
 Genus *Ptychotrygon* Jaekel 1894
 TYPE SPECIES: *Ptychodus triangularis* Reuss 1845
Ptychotrygon agujaensis McNulty & Slaughter 1972
Ptychotrygon blainensis Case 1978
Ptychotrygon hooveri McNulty & Slaughter 1972
Ptychotrygon ledouxi Cappetta 1973
Ptychotrygon slaughteri Cappetta & Case 1975
Ptychotrygon boothi Case 1987
Ptychotrygon ellae Case 1987
Ptychotrygon greybullensis Case 1987
Ptychotrygon vermiculata Cappetta 1975
- Family Pristidae Bonaparte 1838
 Genus *Anoxypristis* White & Moy-Thomas 1941
 TYPE SPECIES: *Pristis cupidatus* Latham 1794 Recent
Anoxypristis fajumensis (Stromer) 1905
Anoxypristis mucrodens White
 7318
Anoxypristis sp.
 10656,10657
 Genus *Peyeria* Weiler 1935
 TYPE SPECIES: *Peyeria libyca* Weiler 1935
 Genus *Pristis* Linck 1790
 TYPE SPECIES: *Squalus pristis* Linnaeus 1758 Recent
Pristis aquitanicus Delfortrie 1872
Pristis amblyodon Cope 1869

ノコギリエイ科
 ノコギリエイ属

- Pristis lathamii* Galeotti 1837
 10659
Pristis pickeringi Case 1981
Pristis sp.
 10658, 10660, 10661, 10662, 10663, 10664, 10665, 10666, 10667
- Order Torpediniformes Buen 1926 シビレエイ目
 Super family Torpedinoidea Compagno 1973
 Family Torpedinidae Bonaparte 1838 シビレエイ属
 Genus *Etorpedo* White 1934
 TYPE SPECIES: *Etorpedo jaekeli* White 1934
Etorpedo hilgendorfi (Jaekel) 1904
Etorpedo nolfi Herman 1974
 Genus *Torpedo* Houttuyn 1764 ヤマトシビレエイ属
 TYPE SPECIES: *Raja torpedo* Linnaeus 1758 Recent
- Super family Narcinidea Compagno 1973
 Family Narcinidea Gill 1862
 Genus *Narcine* Henle 1834 タイワンシビレエイ属
 TYPE SPECIES: *Torpedo brasiliensis* Olfers 1831 Recent
Narcine molini Jaekel 1894
- Order Myliobatiformes Compagno 1973 トビエイ目
 Super family Dasyatoidea Whitley 1940 アカエイ上目
 Family Dasyatidae Jordan 1888 アカエイ科
 Genus *Dasyatis* Rafinesque 1810 アカエイ属
 TYPE SPECIES: *Dasyatis uja* Rafinesque 1810 [*Raja pastinaeus* Linnaeus
 1758, by Monotypy] Recent
Dasyatis cavernosa (Probst) 1877
Dasyatis borodini Case 1981
Dasyatis charlisae Case 1981
Dasyatis rugosa (Probst) 1877
Dasyatis tetraedra Arambourg
 7376
Dasyatis sp.
 10668, 10669, 10670
 Genus *Hypolophites* Stromer 1910
 TYPE SPECIES: *Hypolophites myliobatoides* Stromer 1910
Hypolophites mayumbensis Leriche 1913
Hypolophites thaleri Cappetta 1972
 Genus *Hypolophodon* Cappetta 1980
 TYPE SPECIES: *Hypolophus sylvestris* White 1913
- Family Urolophidae Gray 1851 ヒラタエイ科
 Genus *Urolophus* Müller et Henle 1837 ヒラタエイ属
 TYPE SPECIES: *Raja cruciata* Lacepede 1804 Recent
- Family Gymnuridae Fowler 1934 ツバクロエイ科
 Genus *Gymnura* van Hasselt 1823 ツバクロエイ属
 [*Pteroplatea* Müller et Henle 1841]
 TYPE SPECIES: *Raja micrura* Schneider 1801 Recent

Genus *Jacquhermania* Cappetta 1982
TYPE SPECIES: *Cestracion duponti* Winkler 1874

Dasyatoidea incertae familiae

Genus *Arechia* Cappetta 1983
TYPE SPECIES: *Arechia arambourgi* Cappetta 1983

Genus *Coupatezia* Cappetta 1982
TYPE SPECIES: *Coupatezia woutersi* Cappetta 1982
10747

Genus *Heterotorpedo* Ward 1983
TYPE SPECIES: *Heterotorpedo fowleri* Ward 1983

Genus *Merabatis* Cappetta 1983
TYPE SPECIES: *Raja praealba* (partim) Arambourg 1952

Super family Myliobatoidea Compagno 1973

トビエイ上目

Family Myliobatidae Bonaparte 1838

トビエイ科

Genus *Aetobatus* Blainville 1816

マダラトビエイ属

TYPE SPECIES: *Raja narinari* Euphrasen 1790 Recent

Aetobatus arcuatus (Agassiz) 1843

Aetobatus irregularis (Agassiz)

10671,10673,10674,10743

Aetobatus sp.

7285, 7308,10672,10740,10741,10742

Genus *Aetomylaeus* Garman 1908

アオスジトビエイ属

TYPE SPECIES: *Myliobatis maculatus* Gray 1832-34 Recent

Genus *Apocopodon* Cope 1885

TYPE SPECIES: *Apocopodon sericeus* Cope 1885

Genus *Brachyrhizodus* Romer 1942 (Protorhinoptera Case)

TYPE SPECIES: *Brachyrhizodus wichitaensis* Romer 1942

10675,10676,10677,10678,10679,10680,10681

Genus *Igdabatis* Cappetta 1972

TYPE SPECIES: *Igdabatis sigmodon* Cappetta 1972

Genus *Myliobatis* Cuvier 1817

トビエイ属

TYPE SPECIES: *Raja aquila* Linnaeus 1758 Recent

Myliobatis dixonii Agassiz 1843

7366

Myliobatis jugosus Leidy 1877

7371

Myliobatis raouxi Arambourg

7368

Myliobatis striatus Buckland

10726

Myliobatis toliapicus Agassiz

10682,10685,10687

Myliobatis copeanus

10725

Myliobatis sp.

7279, 7290, 7304, 7312, 7328, 7365, 7370,10683,10684,10686,10688,10689,

10690,10691,10692,10693,10694,10695,10696,10697,10698,10699,10700,10701,

10702,10703,10704,10705,10706,10707,10708,10709,10710,10711,10712,10713,

10714,10715,10716,10717,10718,10719,10720,10721,10722,10723,10724,10742

Family Rhinopterae Jordan & Evermann 1896 ウシバナトビエイ科
 Genus *Rhinoptera* Cuvier 1829
 TYPE SPECIES: *Myliobatis marginata* Saint-Hilaire 1809 Recent
Rhinoptera prisca Woodward 1907 ウシバナトビエイ属

Family Rhombodontidae Cappetta 1987
 Genus *Pucabatis* Cappetta 1975
 TYPE SPECIES: *Pucabatis hoffstetteri* Cappetta 1975
 Genus *Rhombodus* Dames 1881
Rhombodus binkhorsti Dames 1881
 7316, 7338, 10728, 10729, 10730, 10731, 10732, 10733, 10734, 10736
Rhombodus laevis Cappetta & Case 1975
 10727
Rhombodus bondoni Arambourg
 10735

Super family Mobuloidea Whitley 1936 イトマキエイ上科
 Family Mobulidae Gill 1893 イトマキエイ科
 Genus *Archaeomanta* Herman 1979
 TYPE SPECIES: *Archaeomanta melenhorsti* Herman 1979
Archaeomanta priemi Herman 1979
 Genus *Burnhamia* Cappetta 1976
 TYPE SPECIES: *Rhinoptera daviesi* Woodward 1889
Burnhamia fetahi Cappetta 1985
Burnhamia daviesi (Woodward)
 7369
 Genus *Manta* Bancroft 1829 オニイトマキエイ属
 TYPE SPECIES: *Manta americana* Bancroft 1829 Recent
Manta melanyae Case 1980
 Genus *Mobula* Rafinesque 1810 イトマキエイ属
Mobula pectinata Cappetta 1970
 TYPE SPECIES: *Mobula auriculata* Rafinesque 1810 Recent
 Genus *Plinthicus* Cope 1869
 TYPE SPECIES: *Plinthicus stenodon* Cope 1869
 7293, 7294, 10737

*1

Subclass Holocephali Bonaparte 1832-41 全頭亜綱
 Order (unnamed)
 Suborder Chimaerina Zangerl ギンザメ亜目
 Family Chimaeridae Rafinesque 1815 ギンザメ科
 Genus *Edaphodon*
Edaphodon sp.
 7300, 7359
 Genus *Chimaera* ギンザメ属
Chimaera sp.
 10752
 Genus *Ischyodus*
Ischyodus bifurcatus Case

7299, 7301, 10744, 10745, 10746
Ischyodus sp.
7346

*2

学名不定 7342

- *1 Copied from Cappetta, H. 1987 Handbook of Paleoichthyology, Volume 3B, Gustav Fischer Verlag, Stuttgart, Germany.
- *2 Zangerl R. 1981 Handbook of Palaeoichthyology, Volume 3A, Gustav Ficher Verlag, Stuttgart, Germany.

Plate 5 (× 1.0)

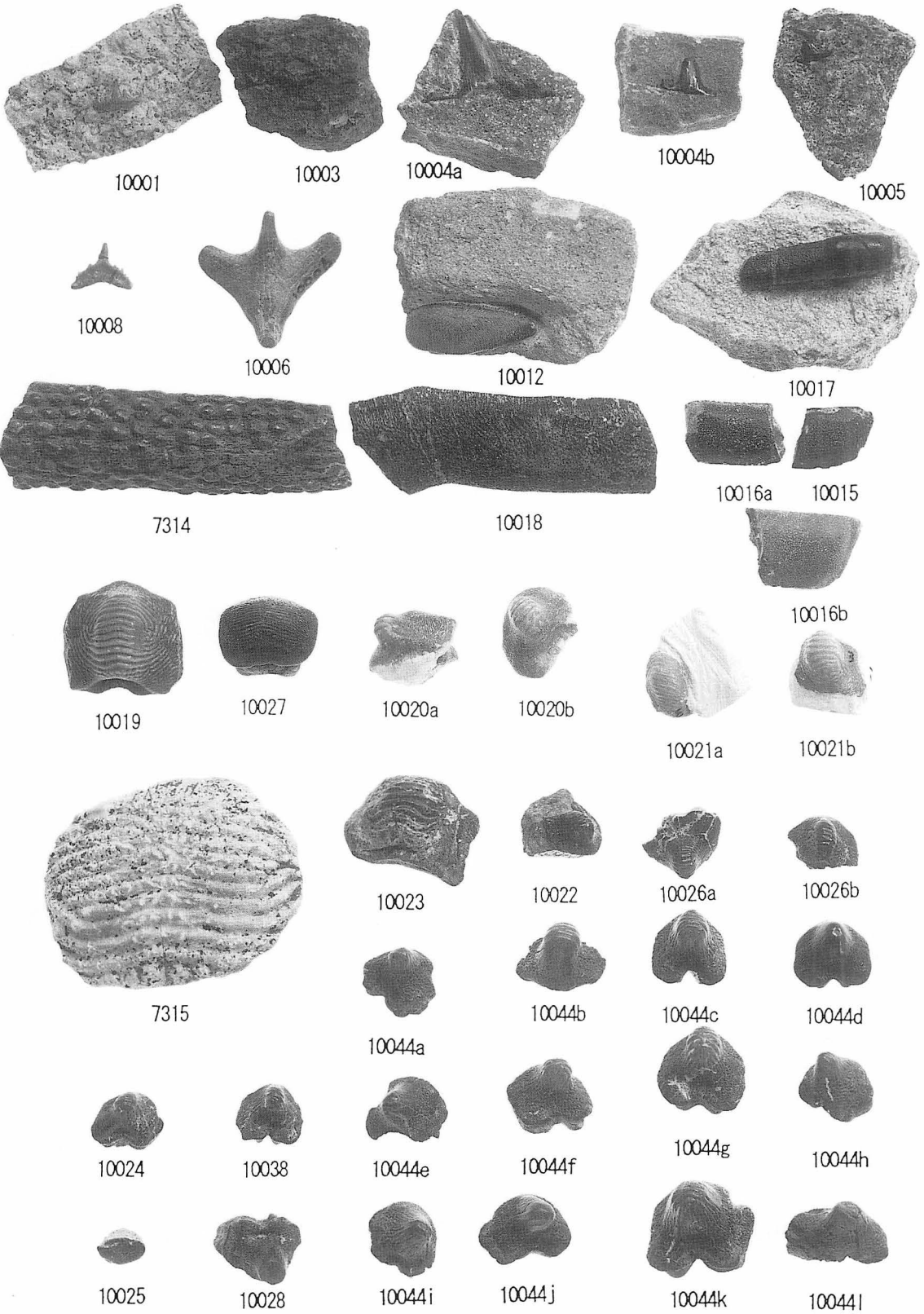


Plate 6 (× 1.0)

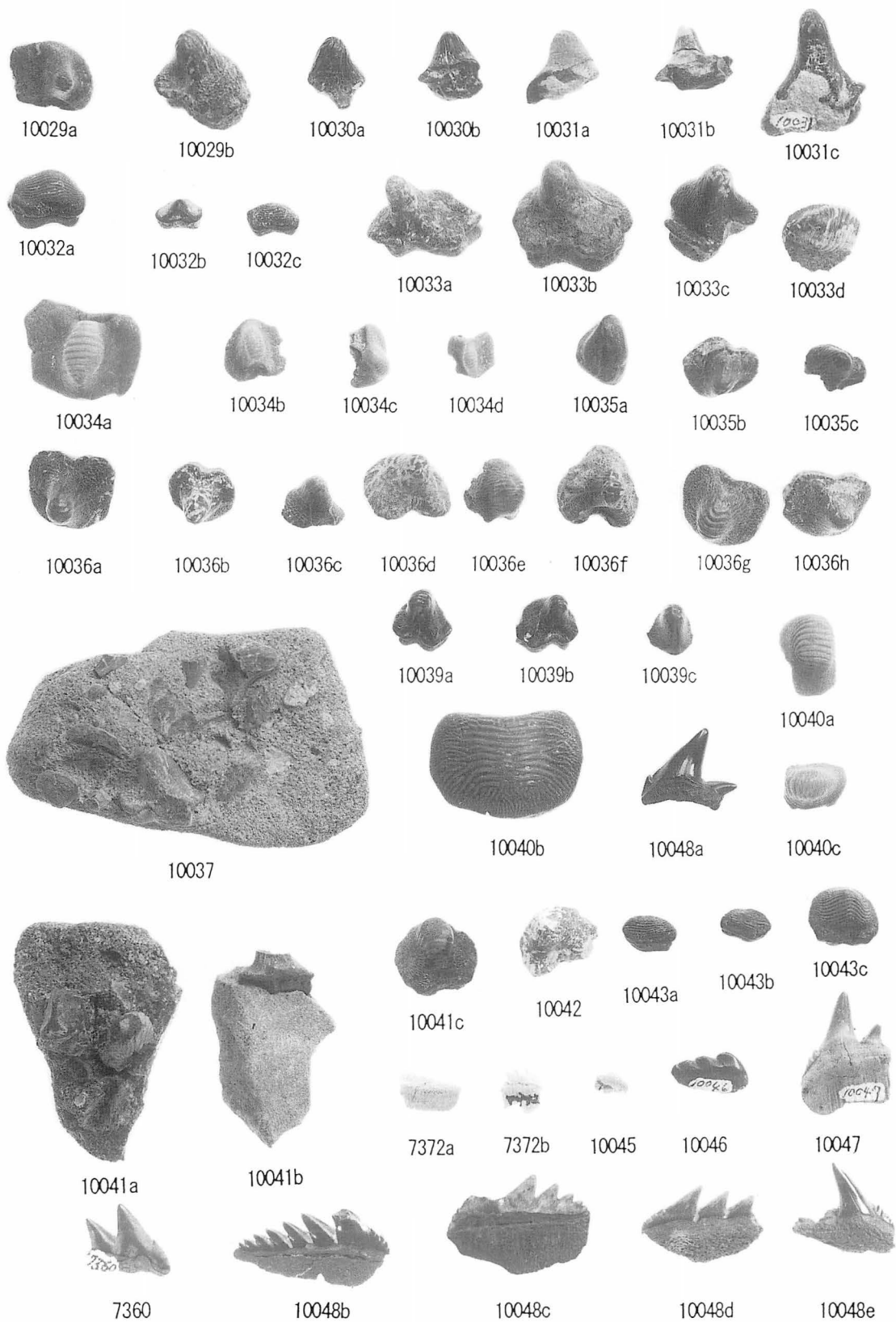


Plate 7 (× 1.0)



7284a

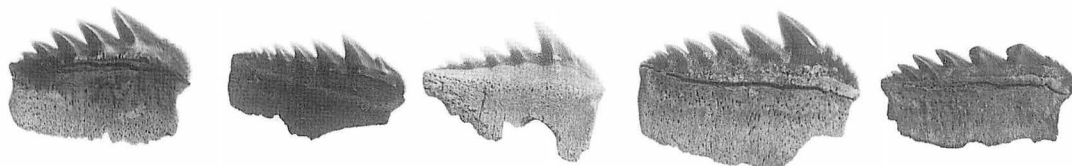
7284b

7284c

7284d

7284e

7284f



7284g

7284h

7284i

7284j

7284k



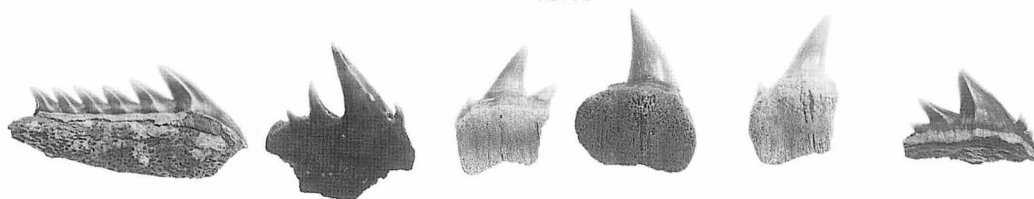
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7283b

7283c

7283d

7283e



7283f

7283g

7283h

7283i

7283j

7283k



10049a

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10049c

10049d

10049e



10064

7356a

7356c

10054

7356b

7356d



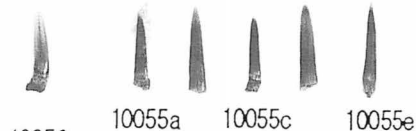
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10078b

10078c

10078d

10078e



10056

10055a

10055c

10055e

10055b

10055d



10078f

10078g

10078h

10079a

10079b

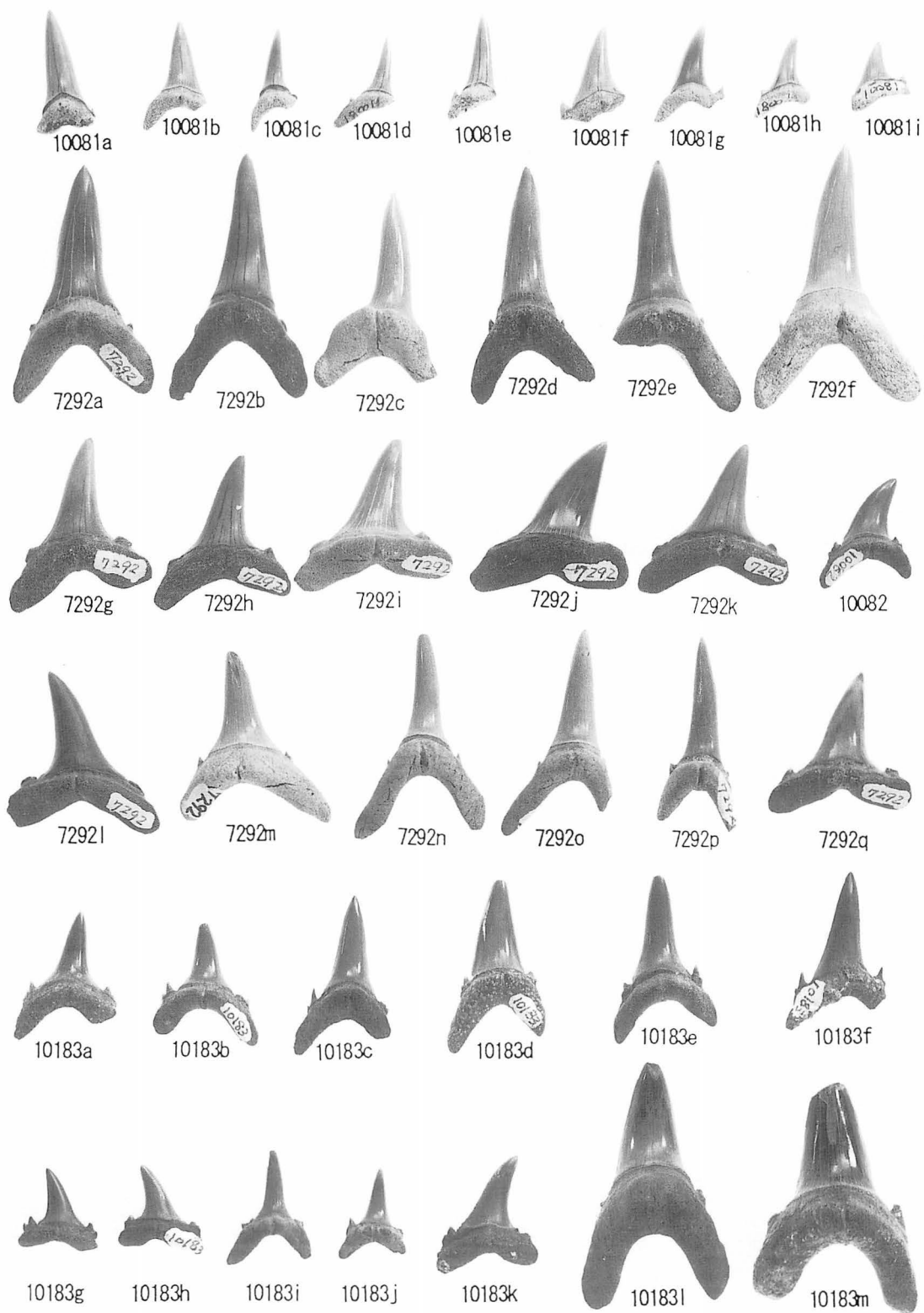
10079c

10080a

10080b

10080c

Plate 8 (× 1.0)



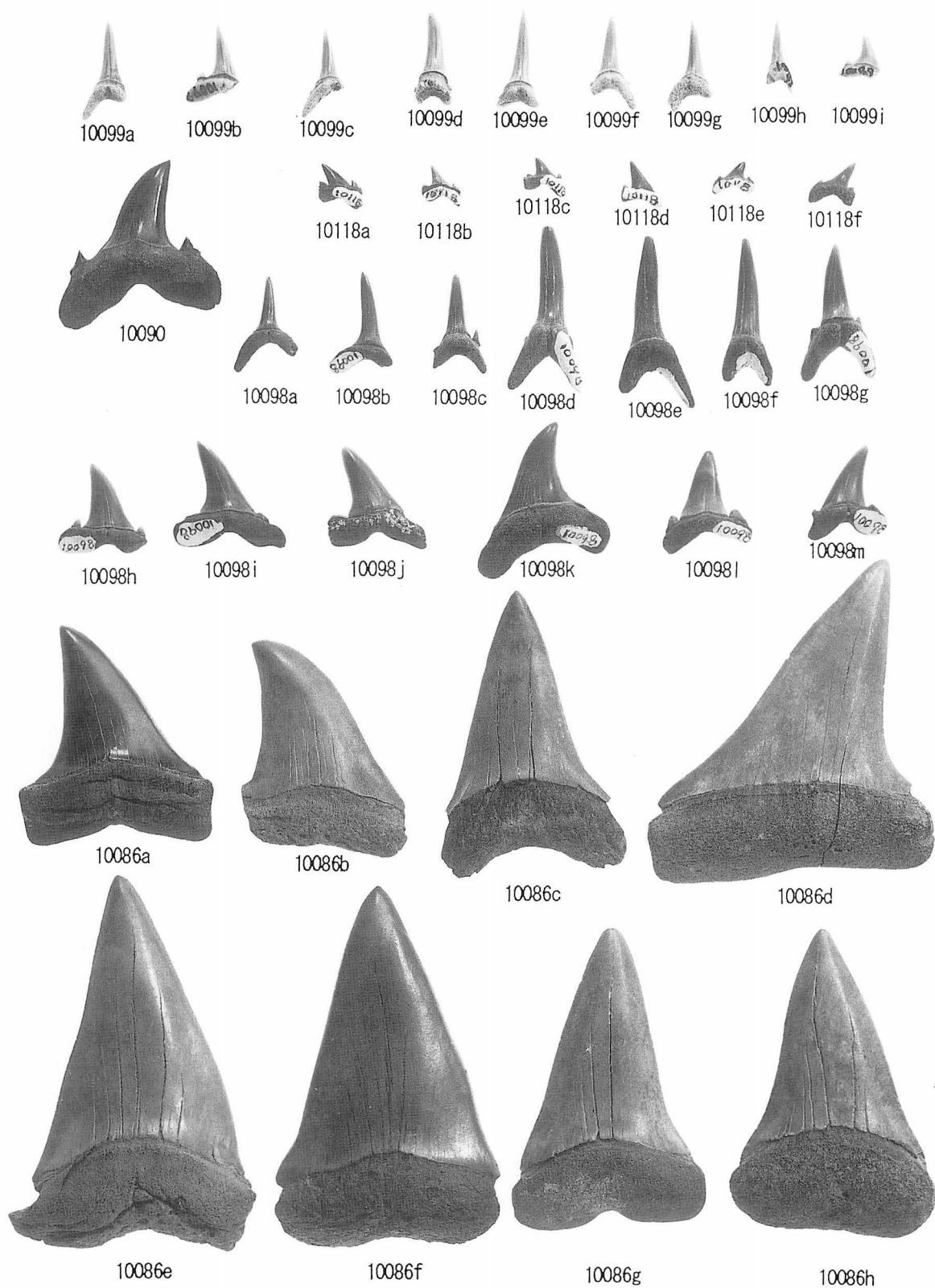
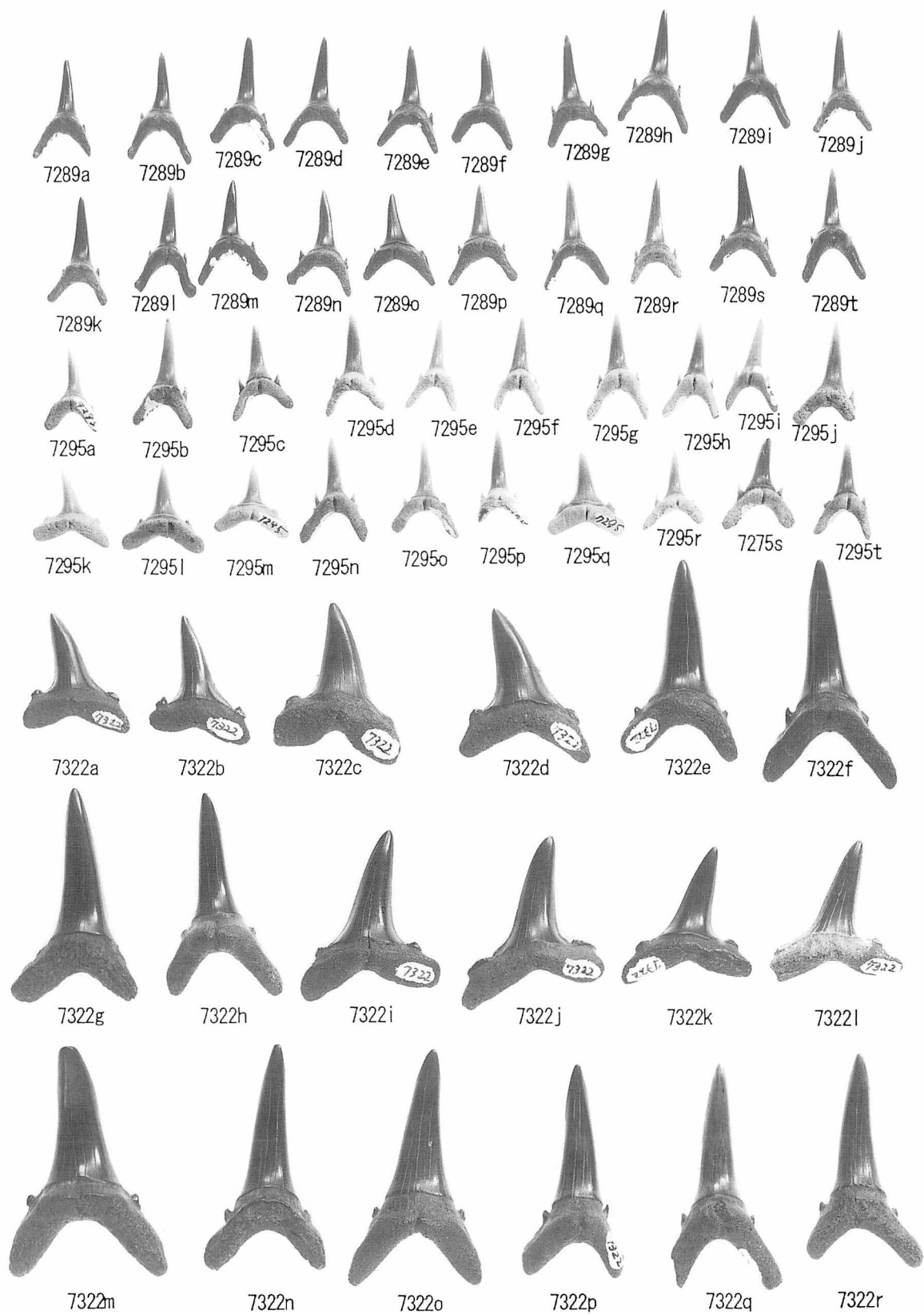


Plate 10 (× 1.0)



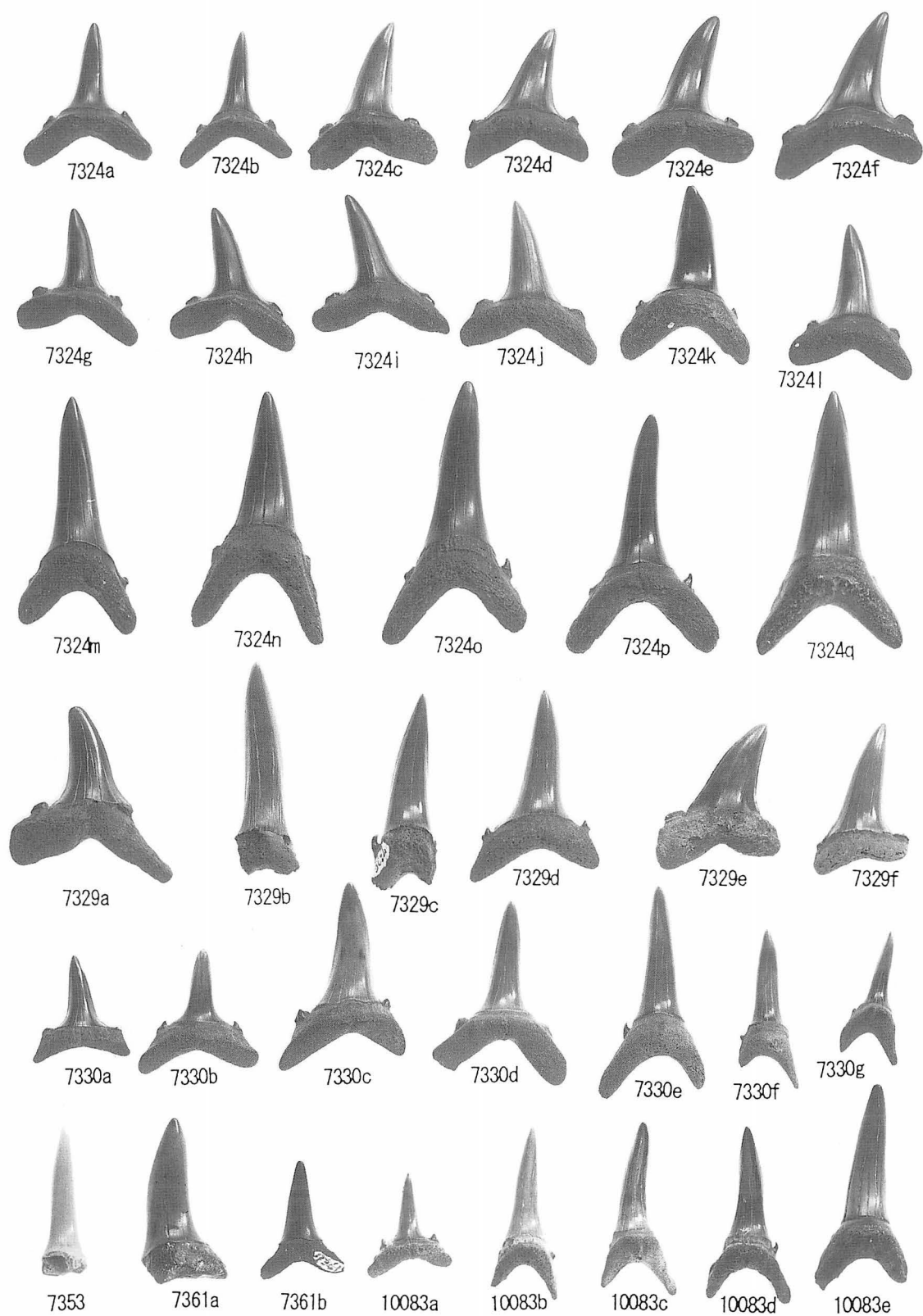
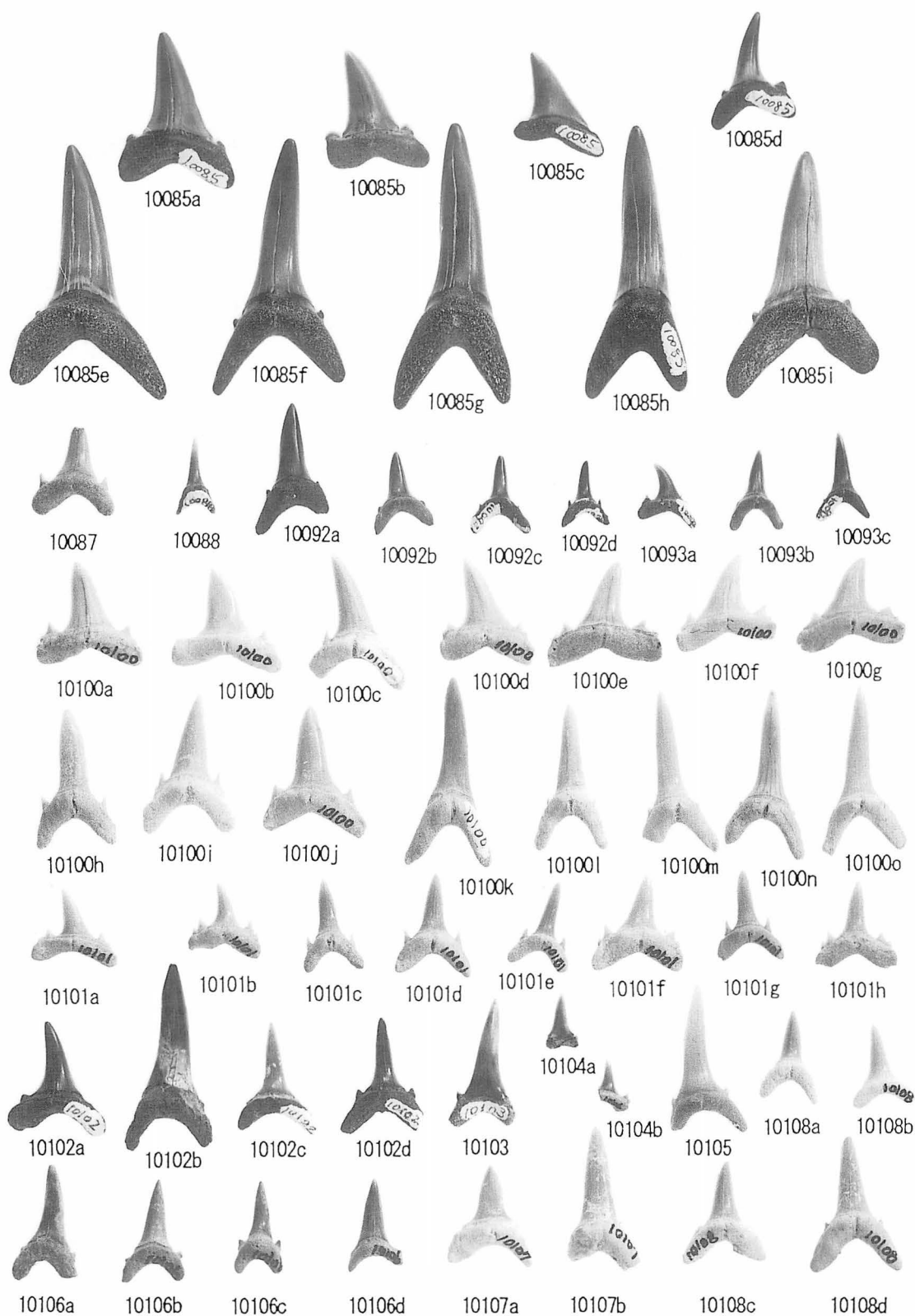


Plate 12 (× 1.0)



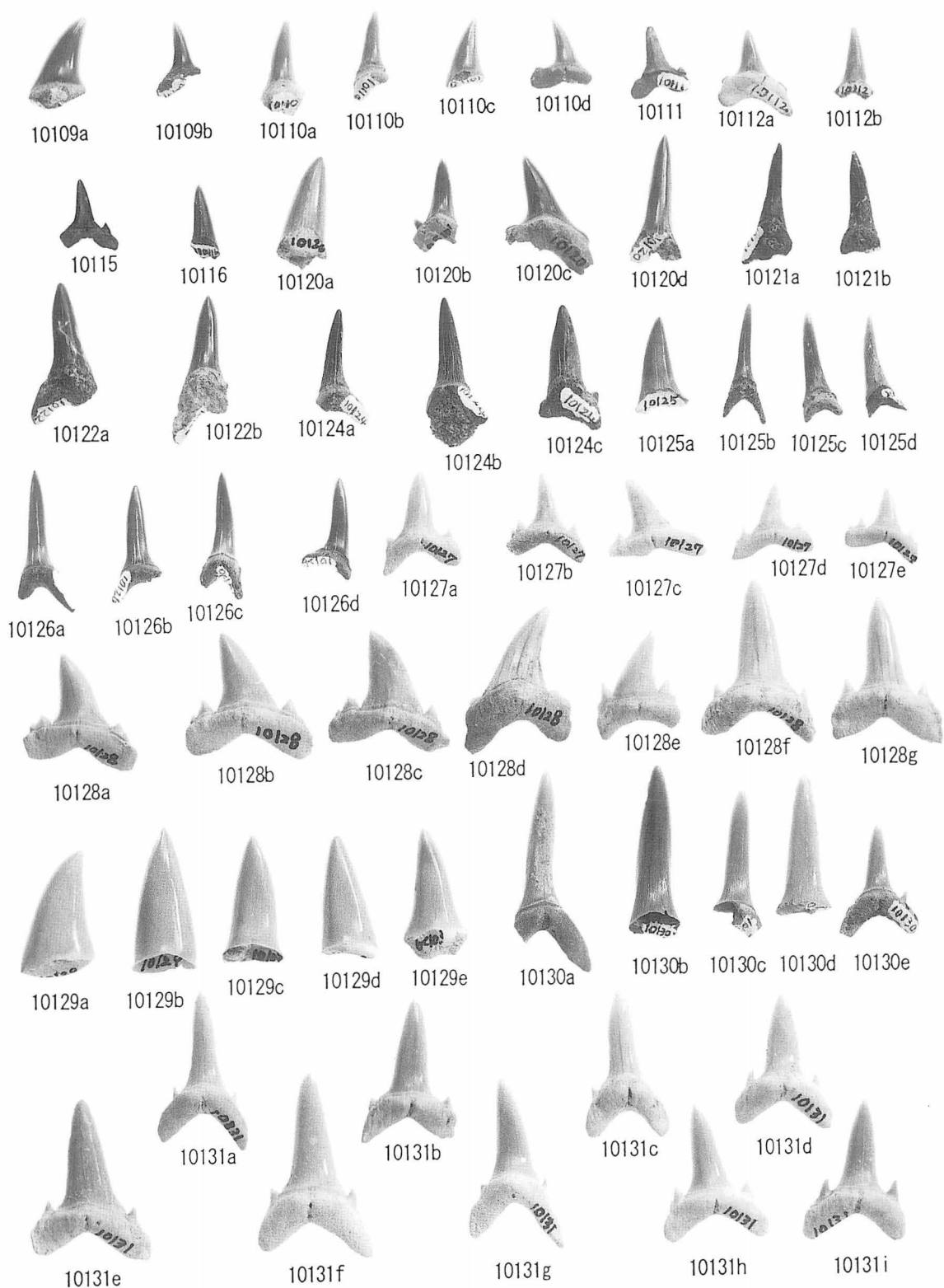


Plate 14 (× 1.0)

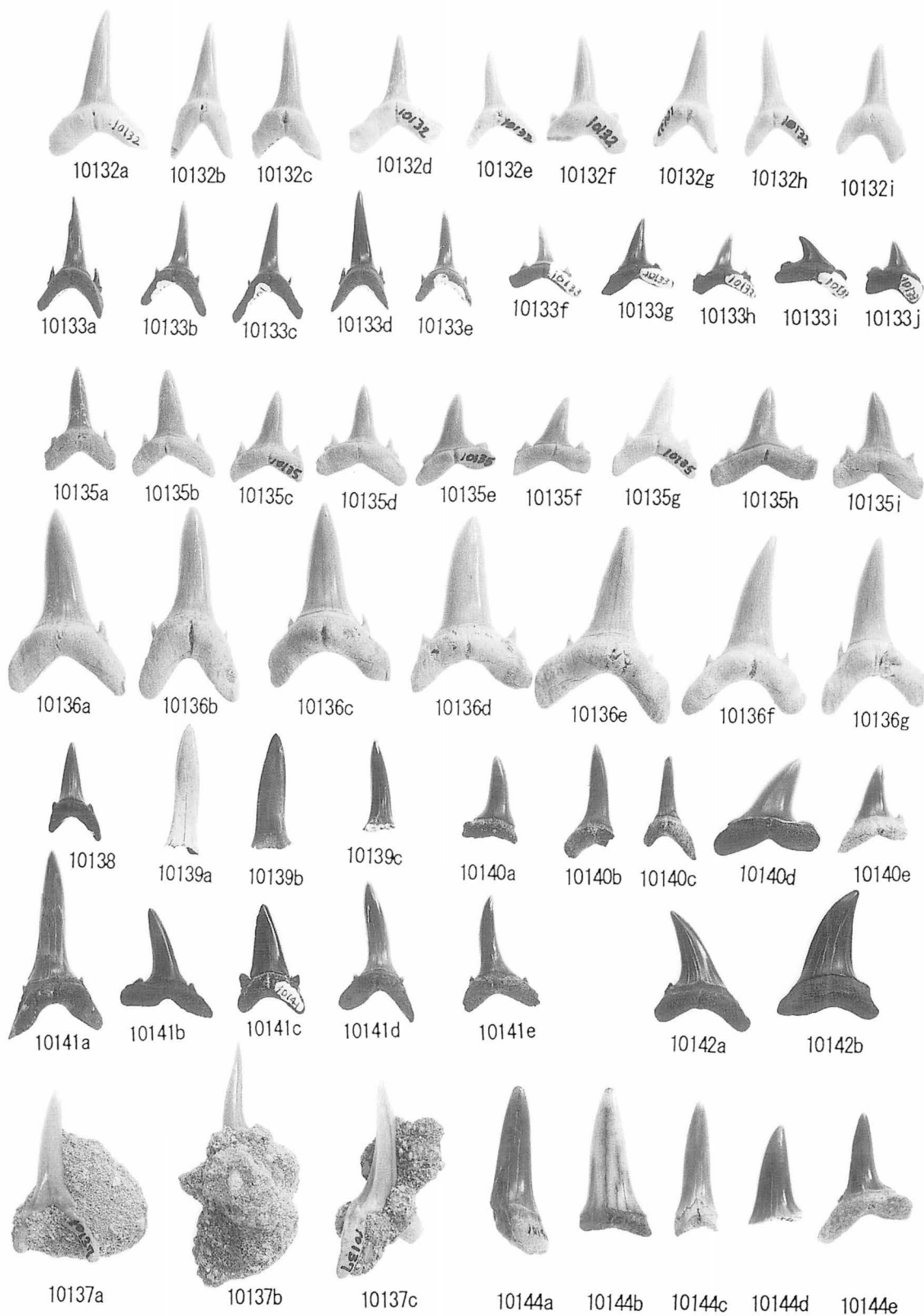


Plate 15 (× 1.0)

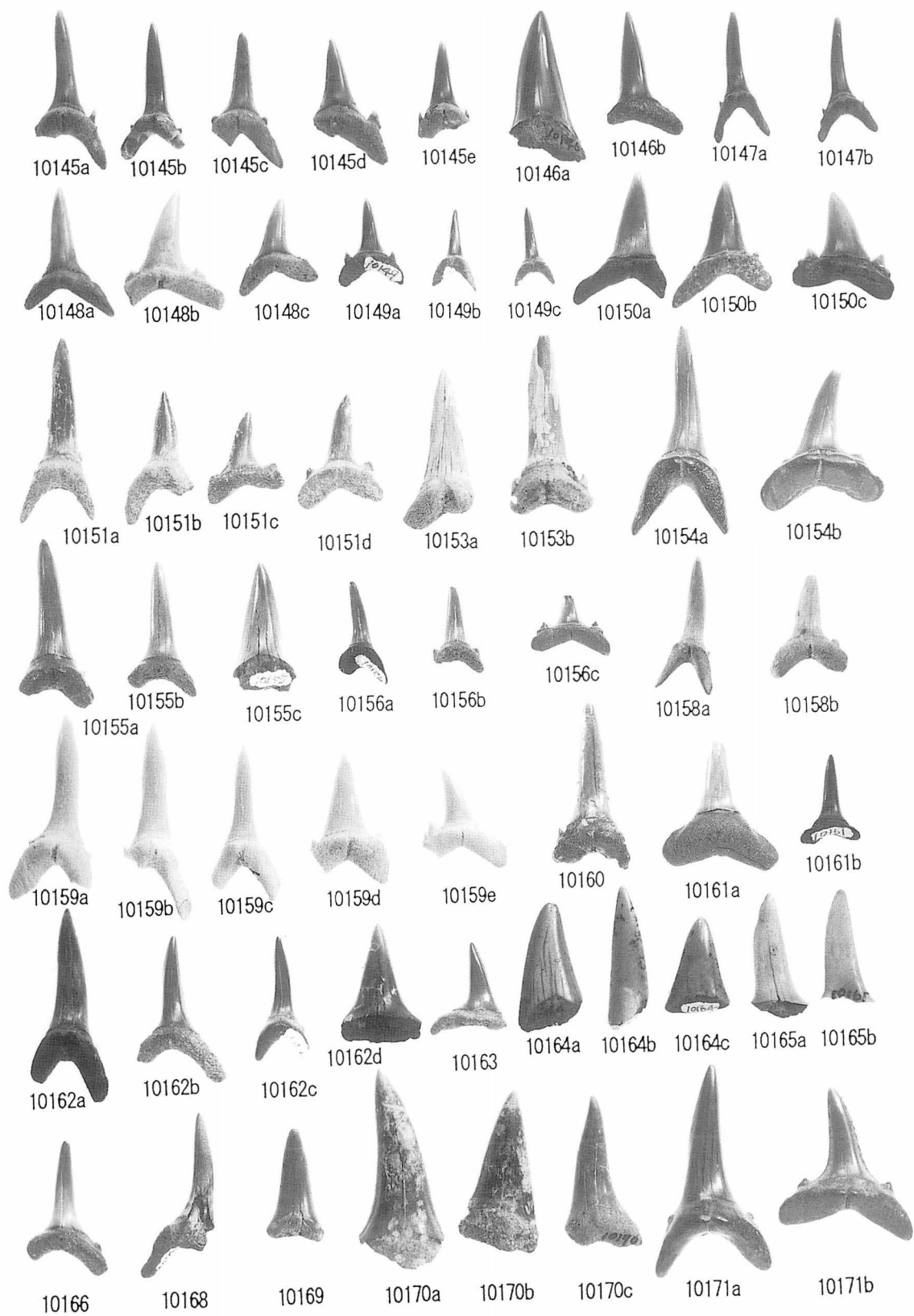
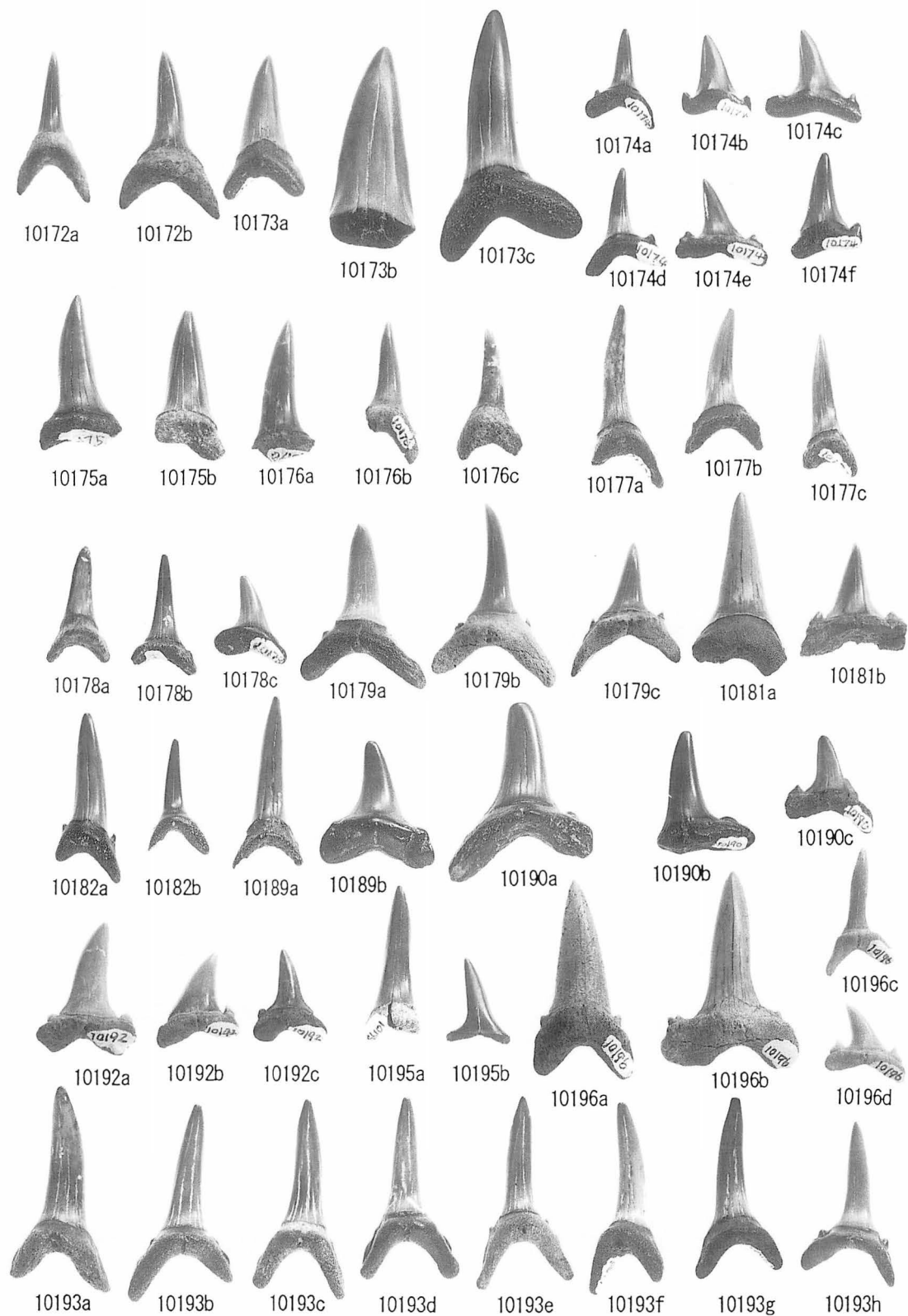
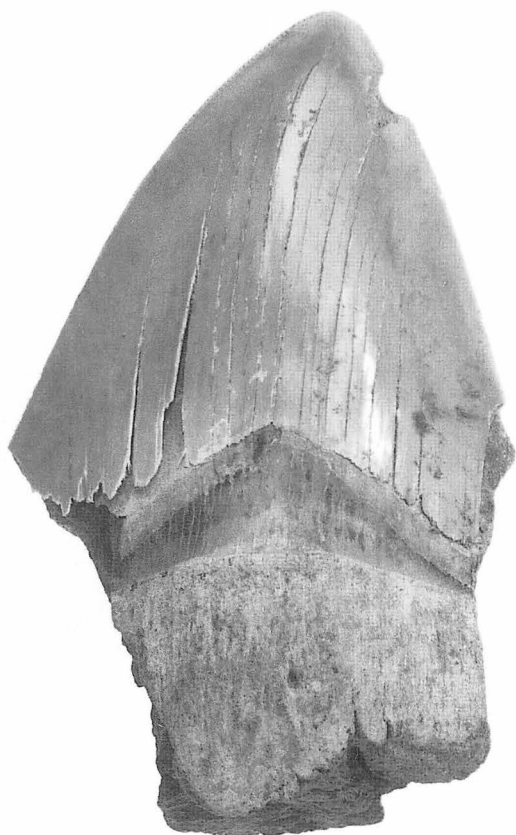


Plate 16 (× 1.0)

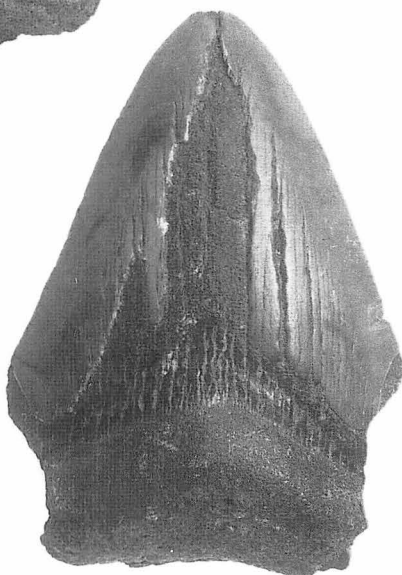




7291a



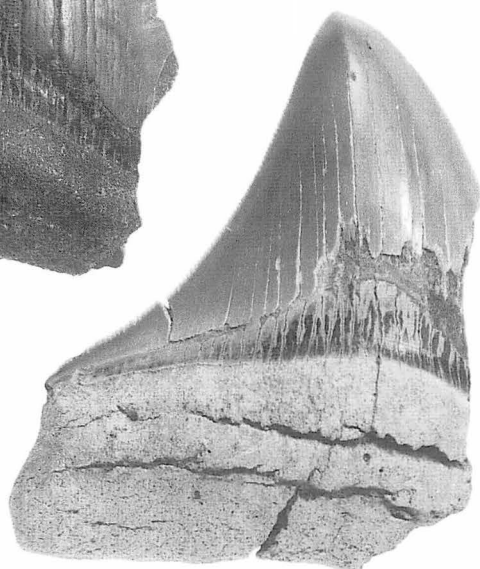
7291b



7291c

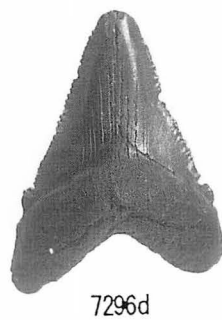
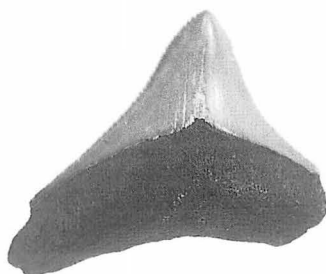
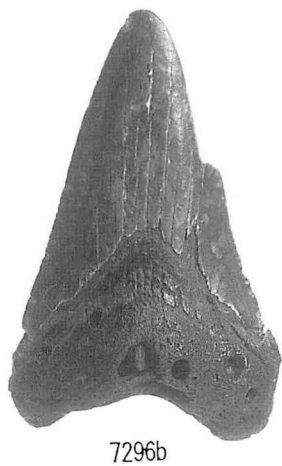
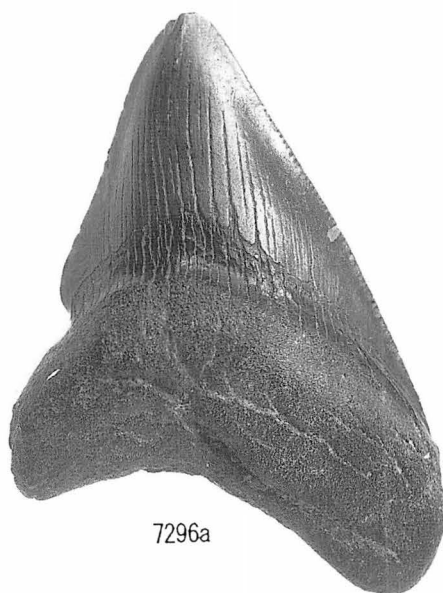
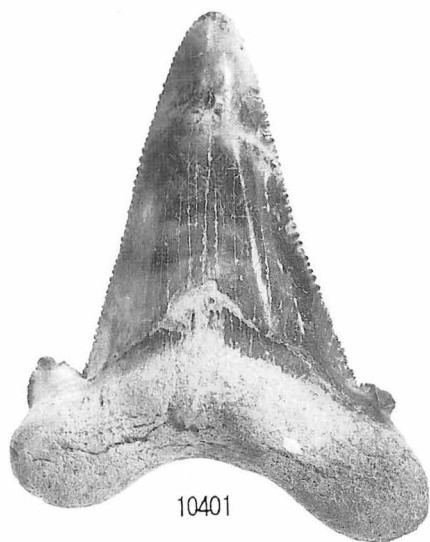
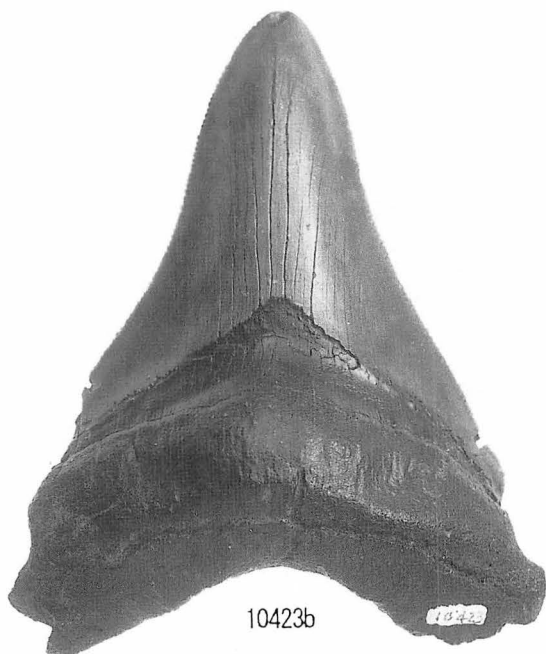
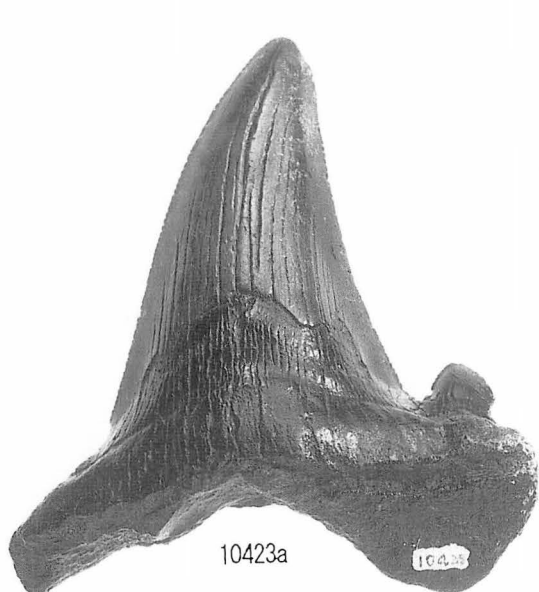


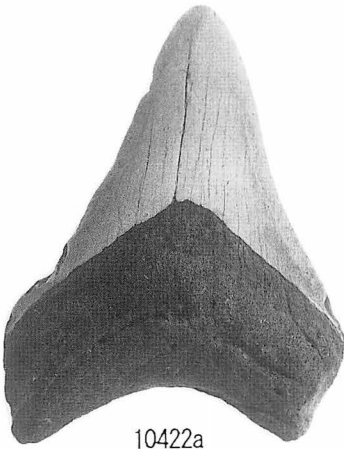
7291d



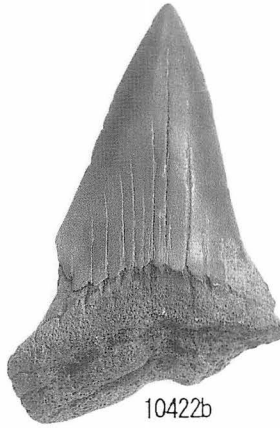
7291e

Plate 18 (× 1.0)





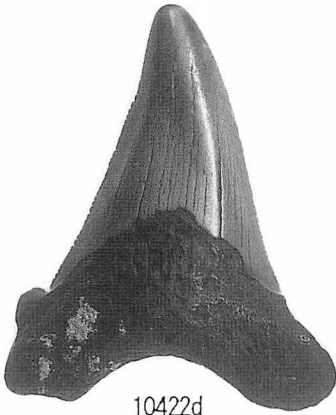
10422a



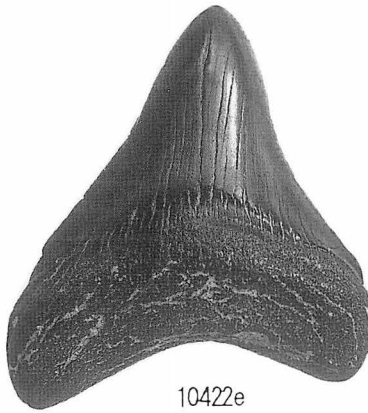
10422b



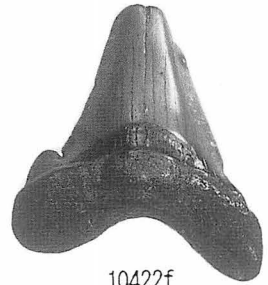
10422c



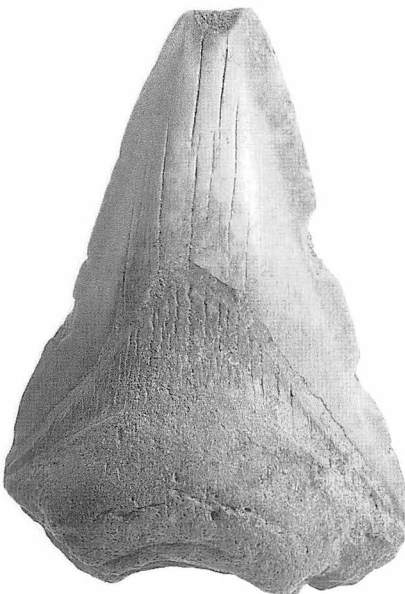
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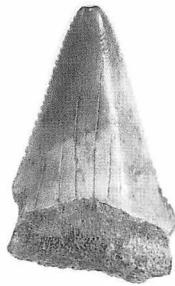
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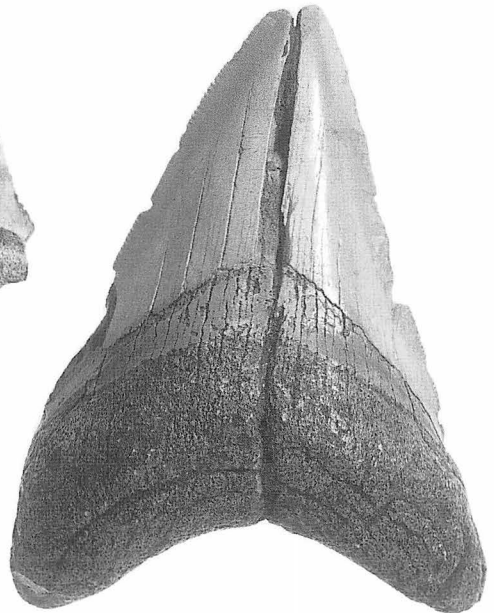
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10422g



10422h

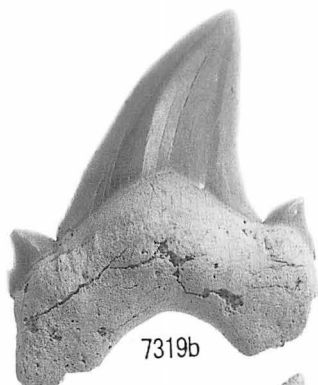


10407

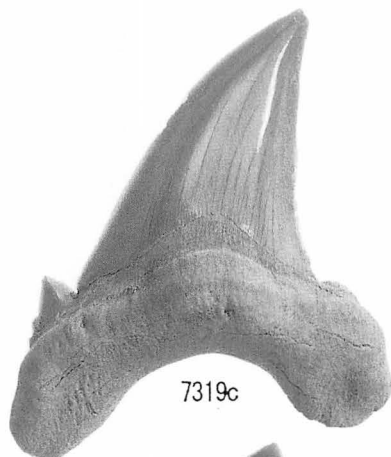
Plate 20 (× 1.0)



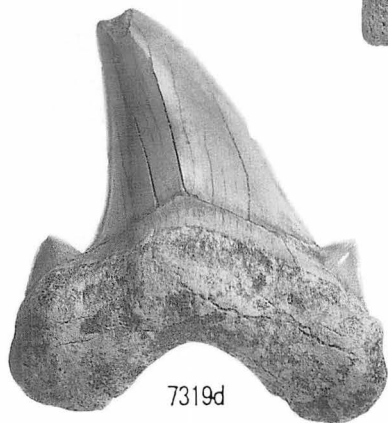
7319a



7319b



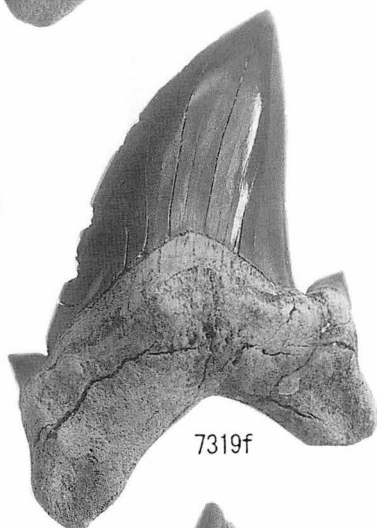
7319c



7319d



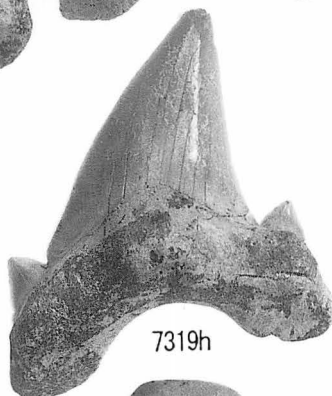
7319e



7319f



7319g



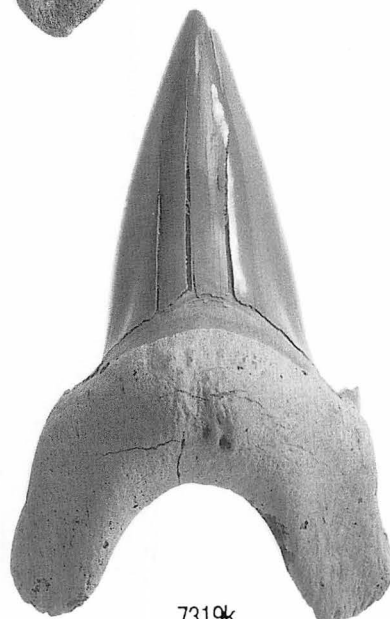
7319h



7319i



7319j



7319k

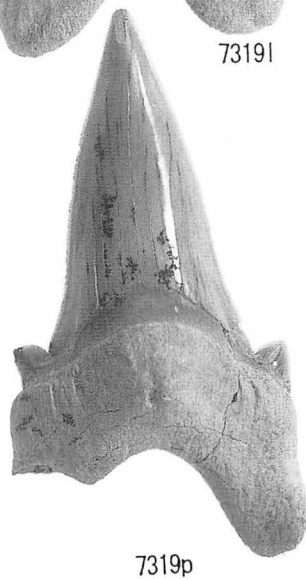
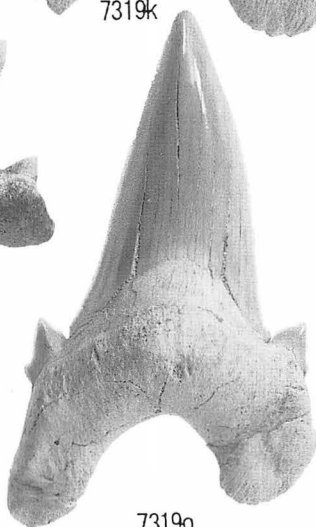
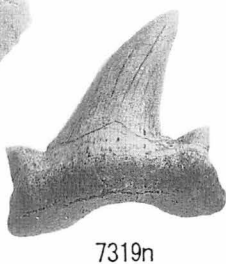
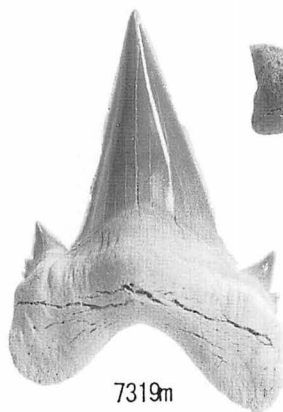
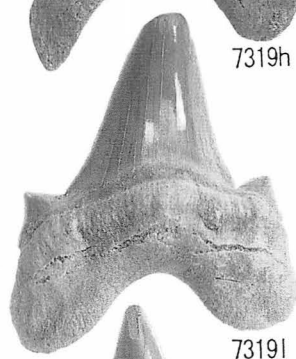
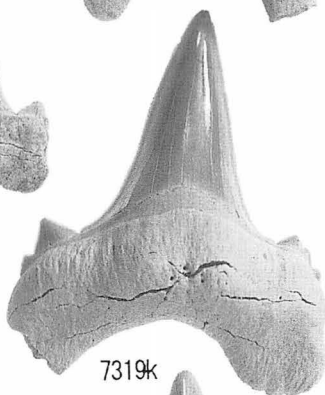
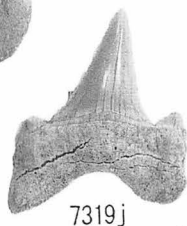
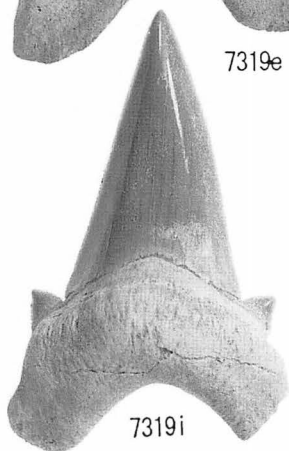
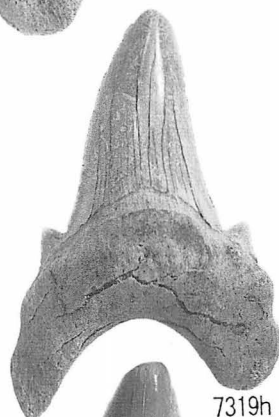
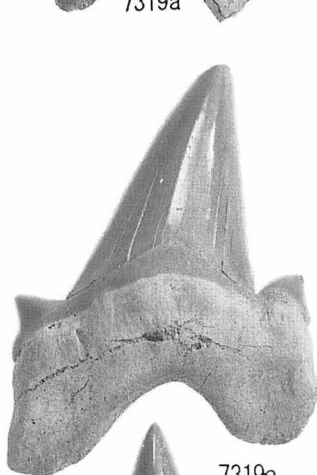
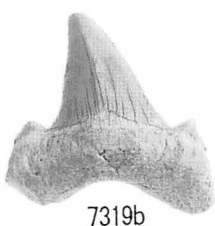
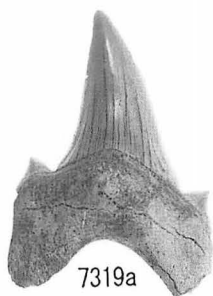
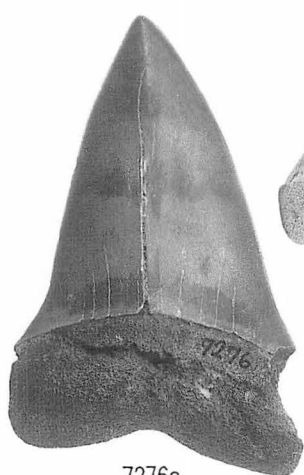


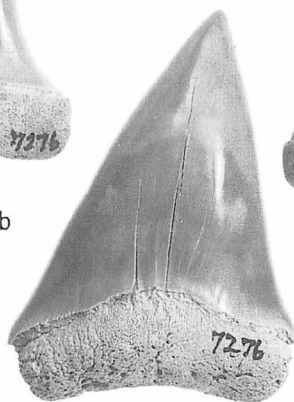
Plate 22 (× 1.0)



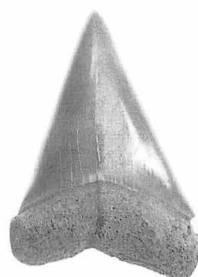
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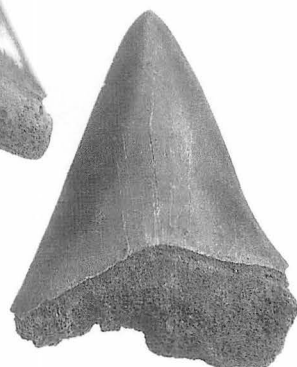
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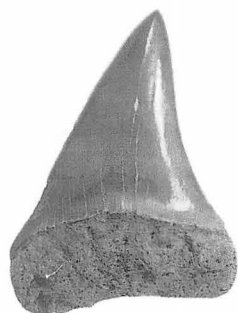
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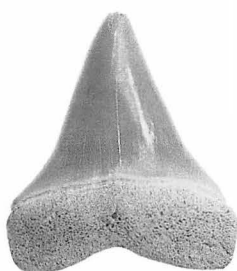
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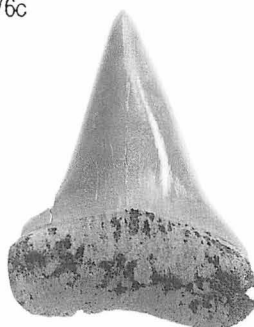
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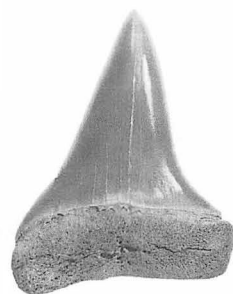
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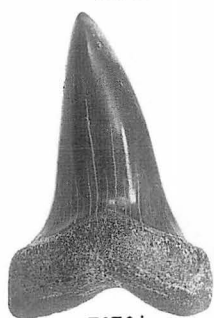
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7276h



7276i



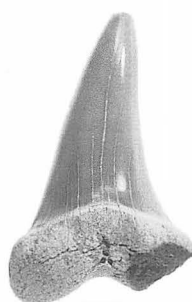
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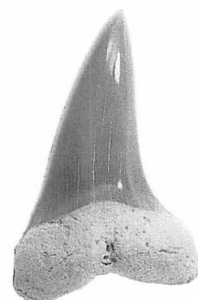
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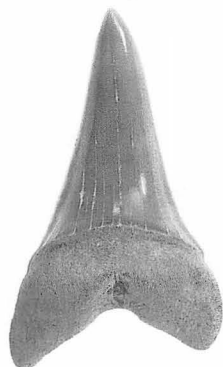
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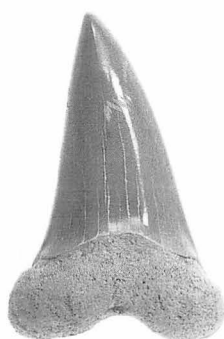
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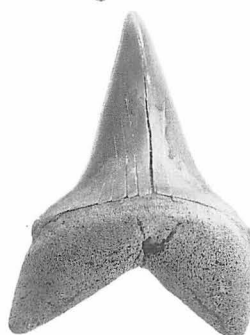
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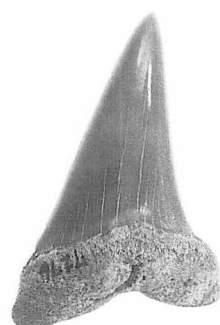
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7276p



7276q



7276r

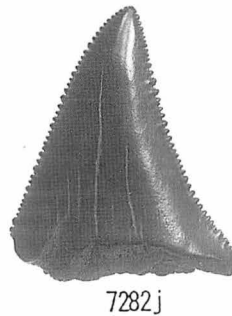
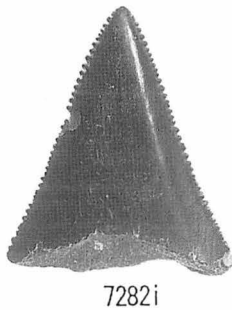
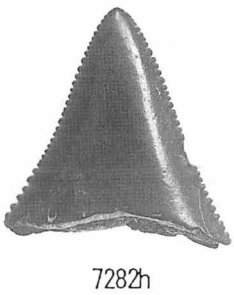
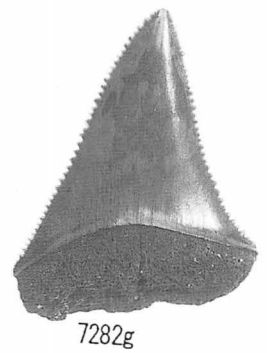
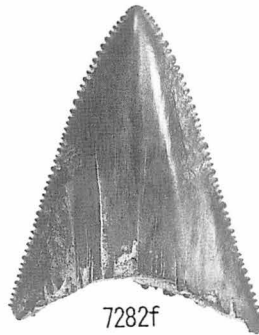
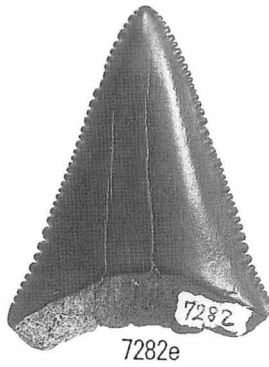
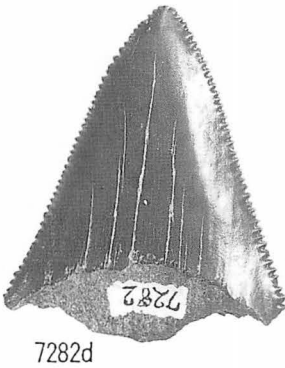
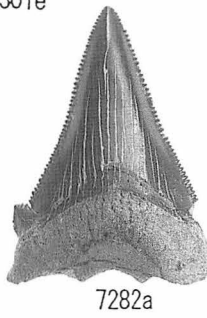
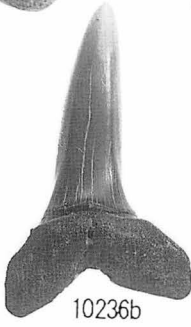
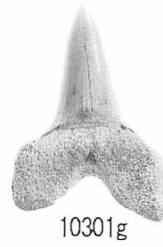
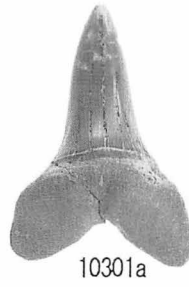
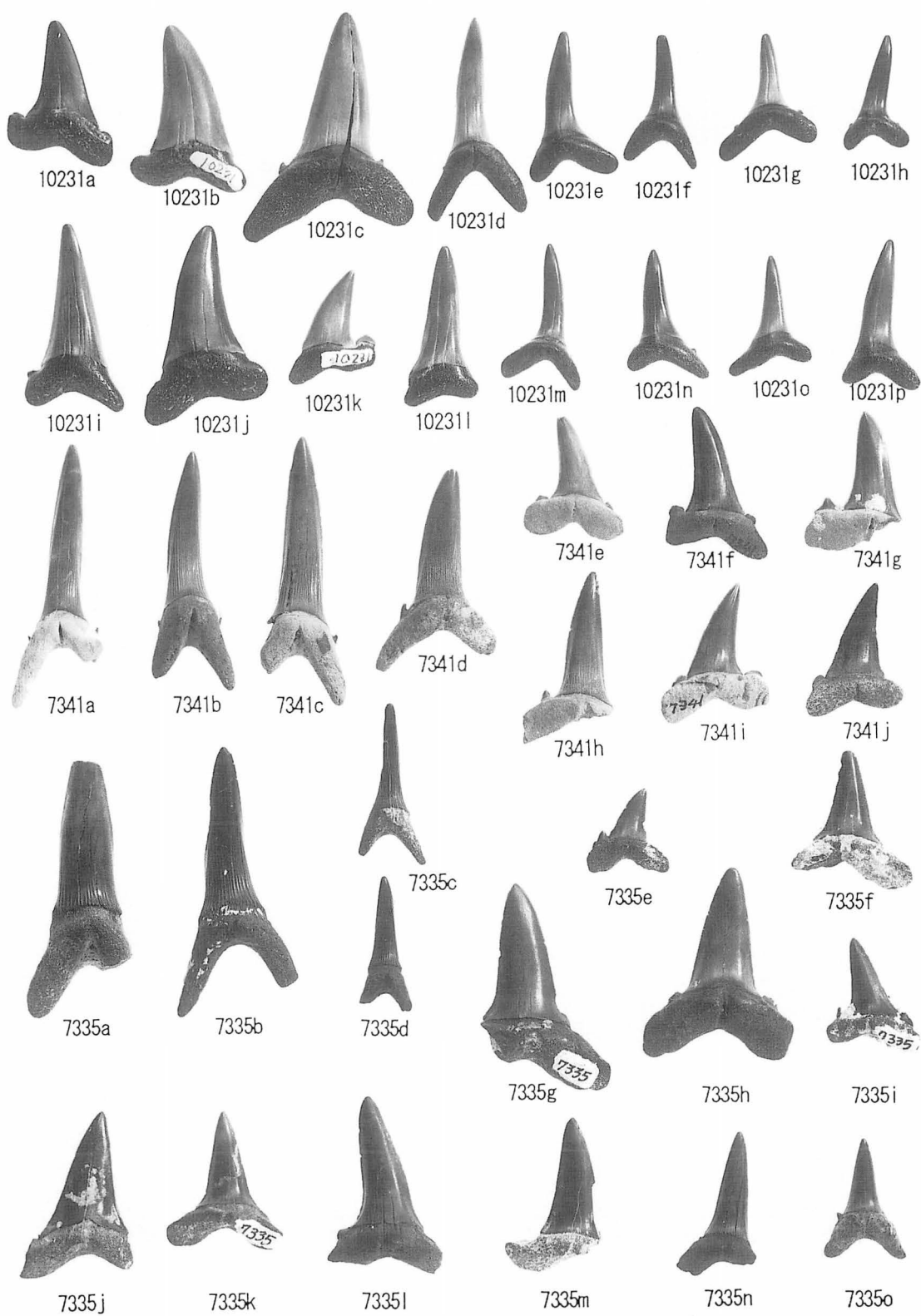


Plate 24 (× 1.0)



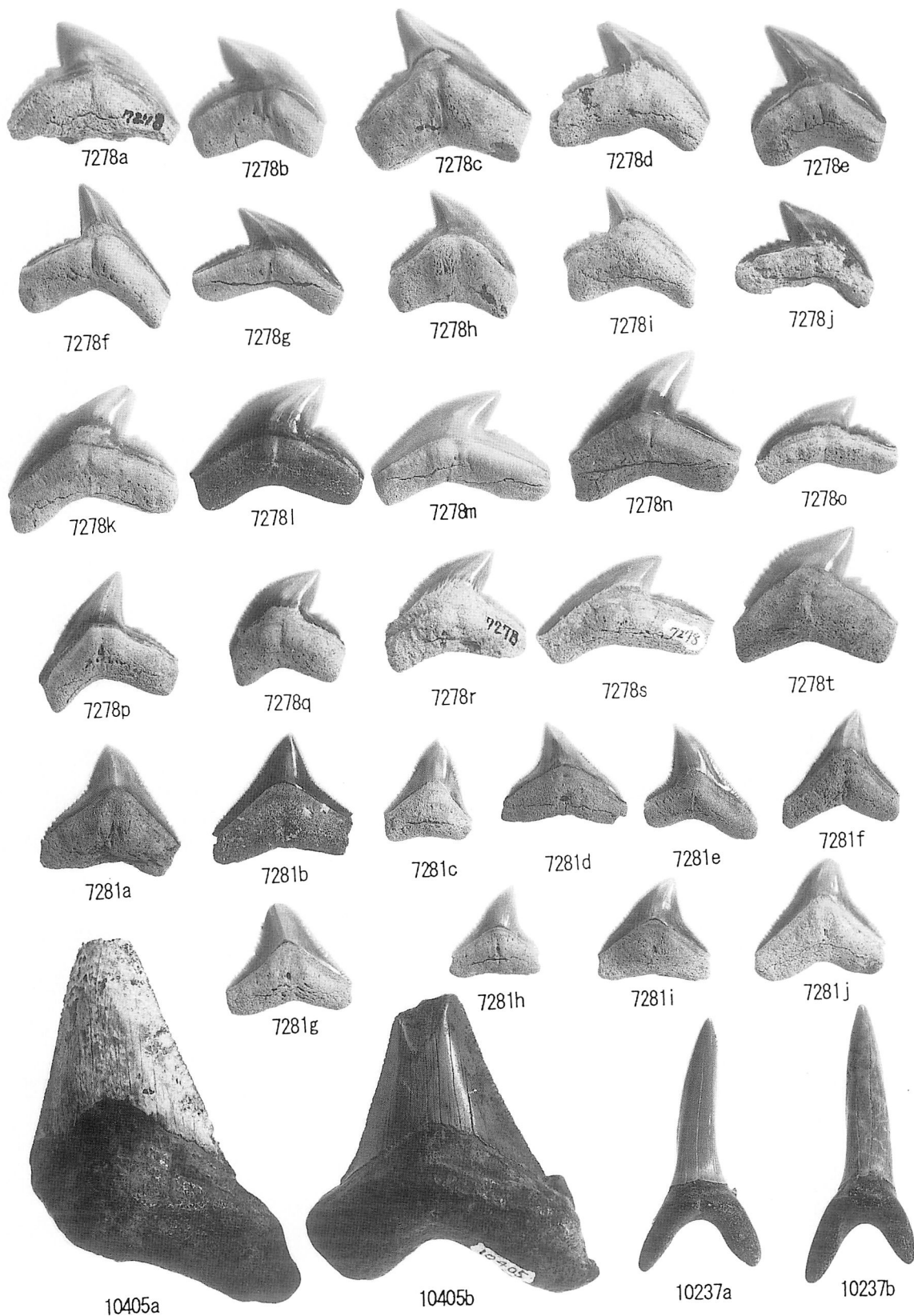


Plate 26 (× 1.0)

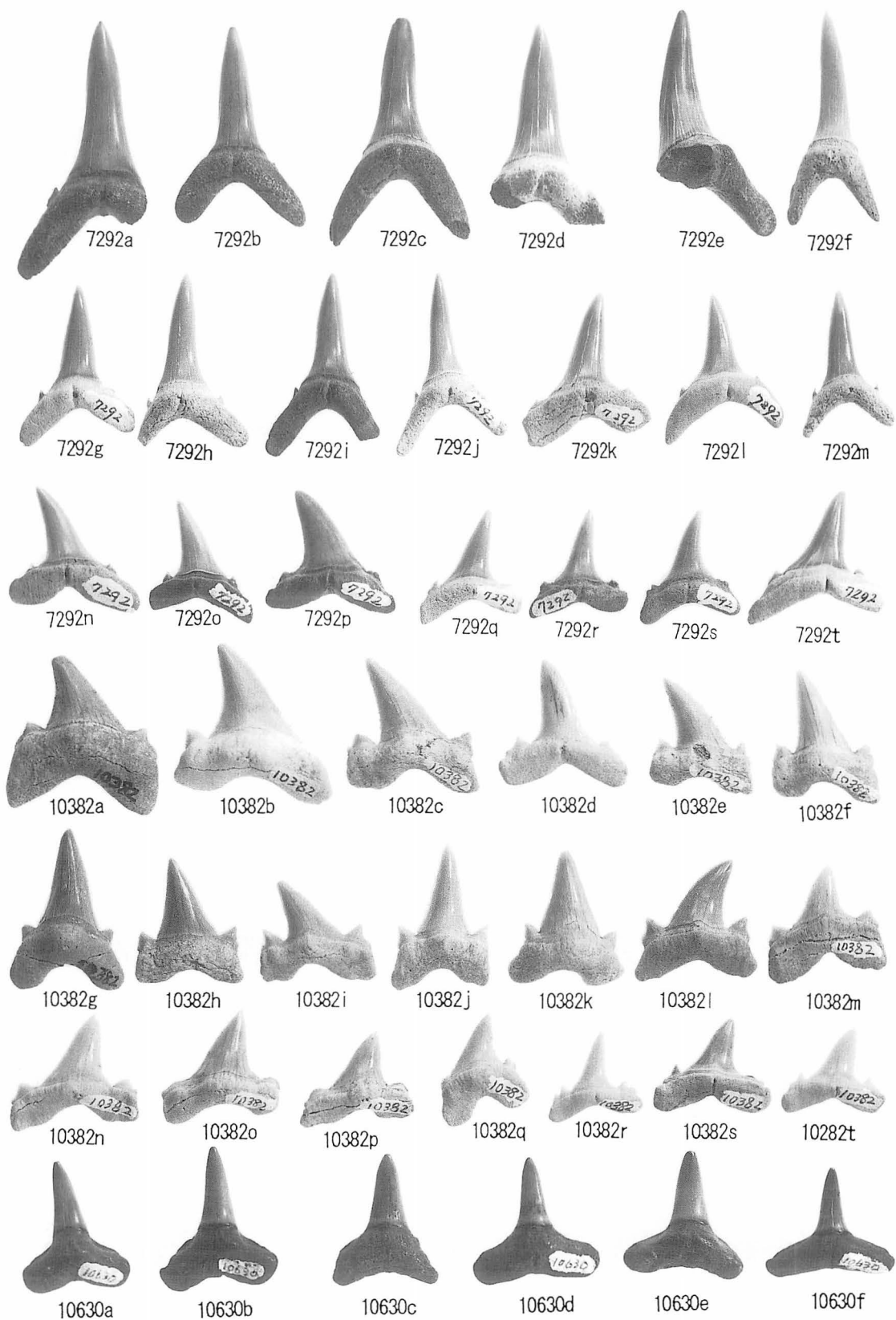


Plate 27 (× 1.0)

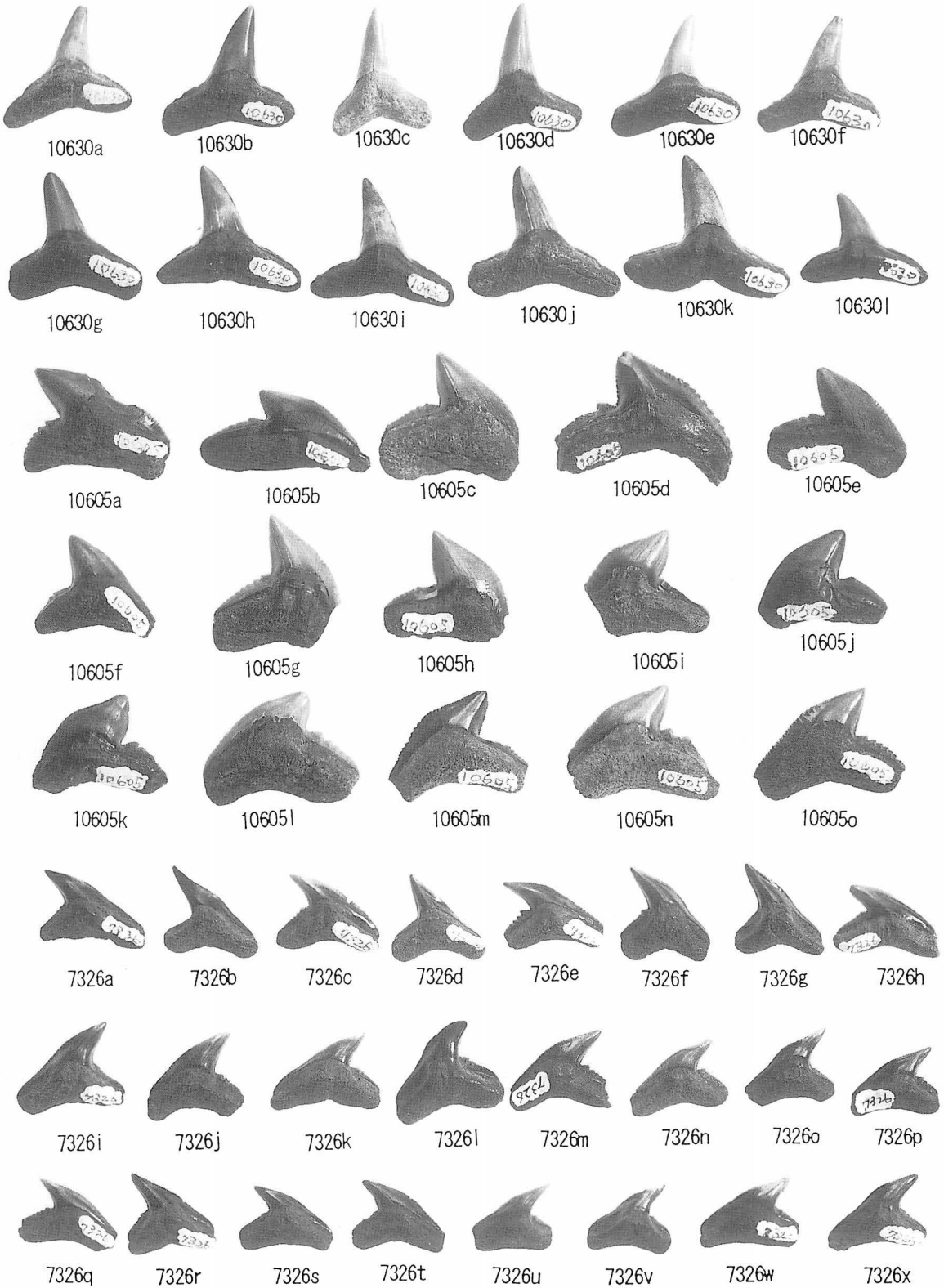
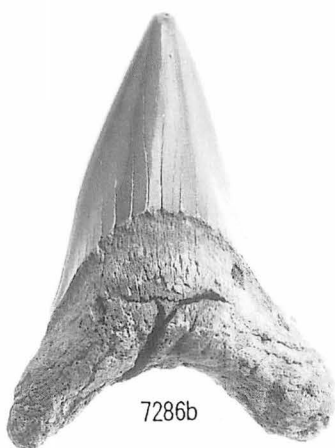


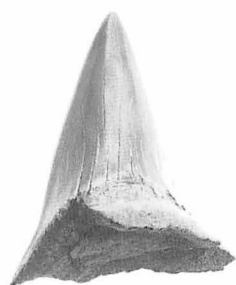
Plate 28 (× 1.0)



7286a



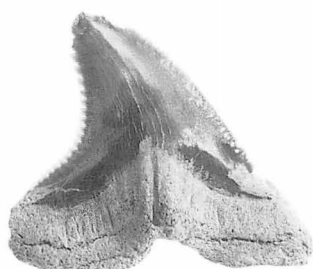
7286b



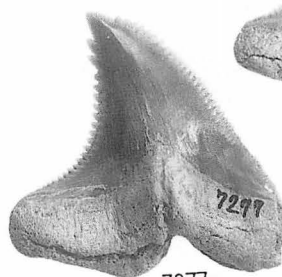
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7277a



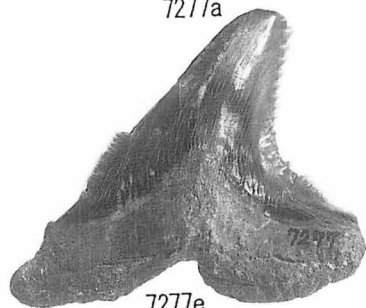
7277b



7277c



7277d



7277e



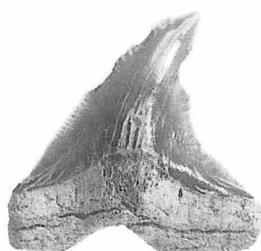
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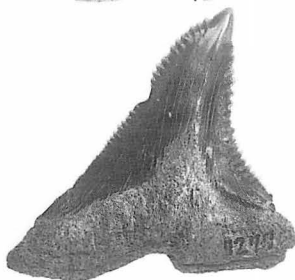
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7277h



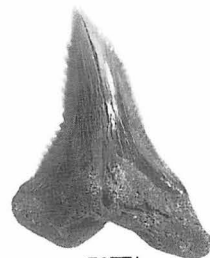
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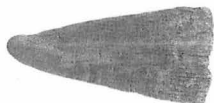
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7366



10656a



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10656c



10656d



10656e



10656f



10656g



10656h



10656i



10656j



7279a



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7279i



7279j



7279k



7279l

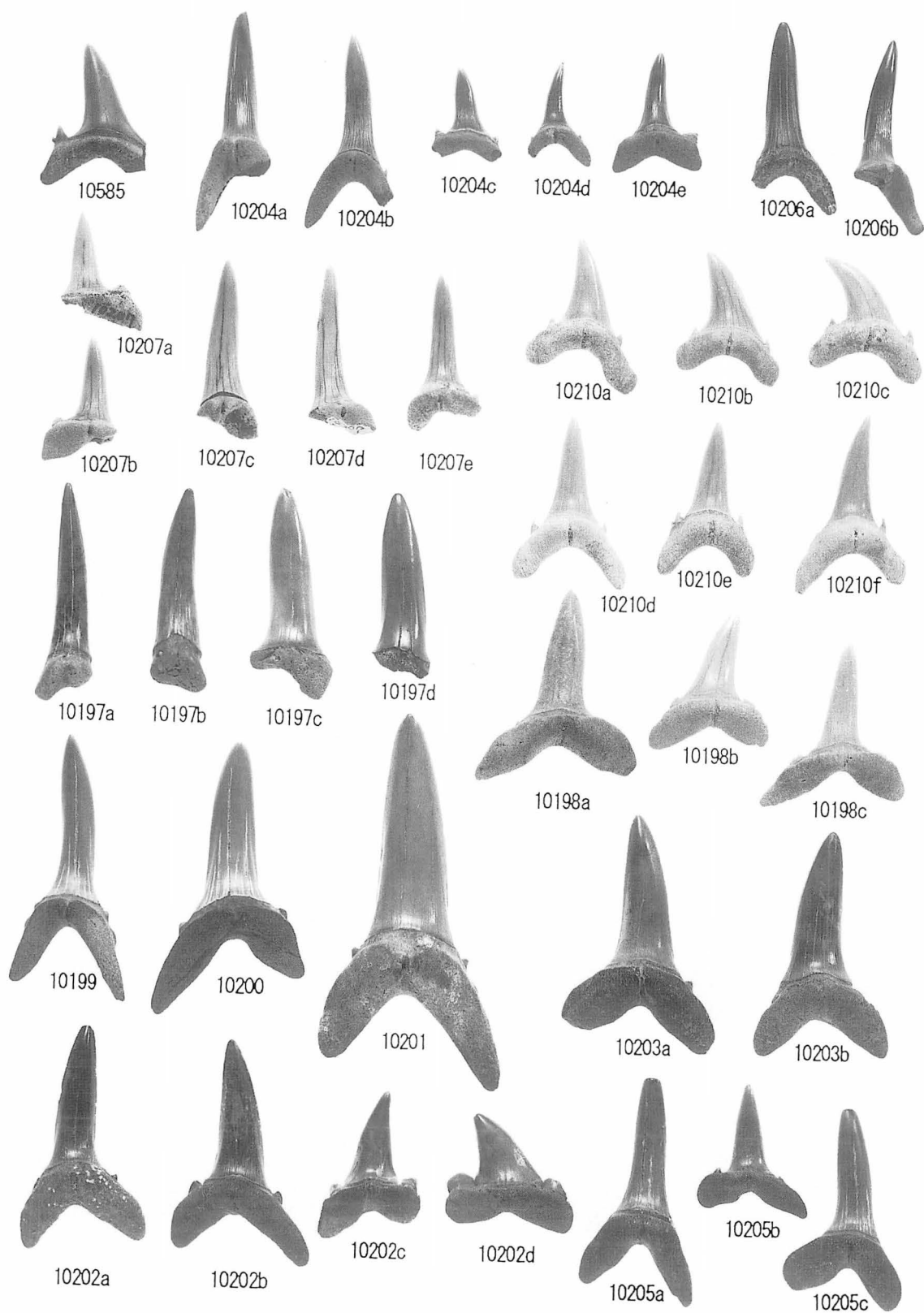


7279m



7279n

Plate 30 (× 1.0)



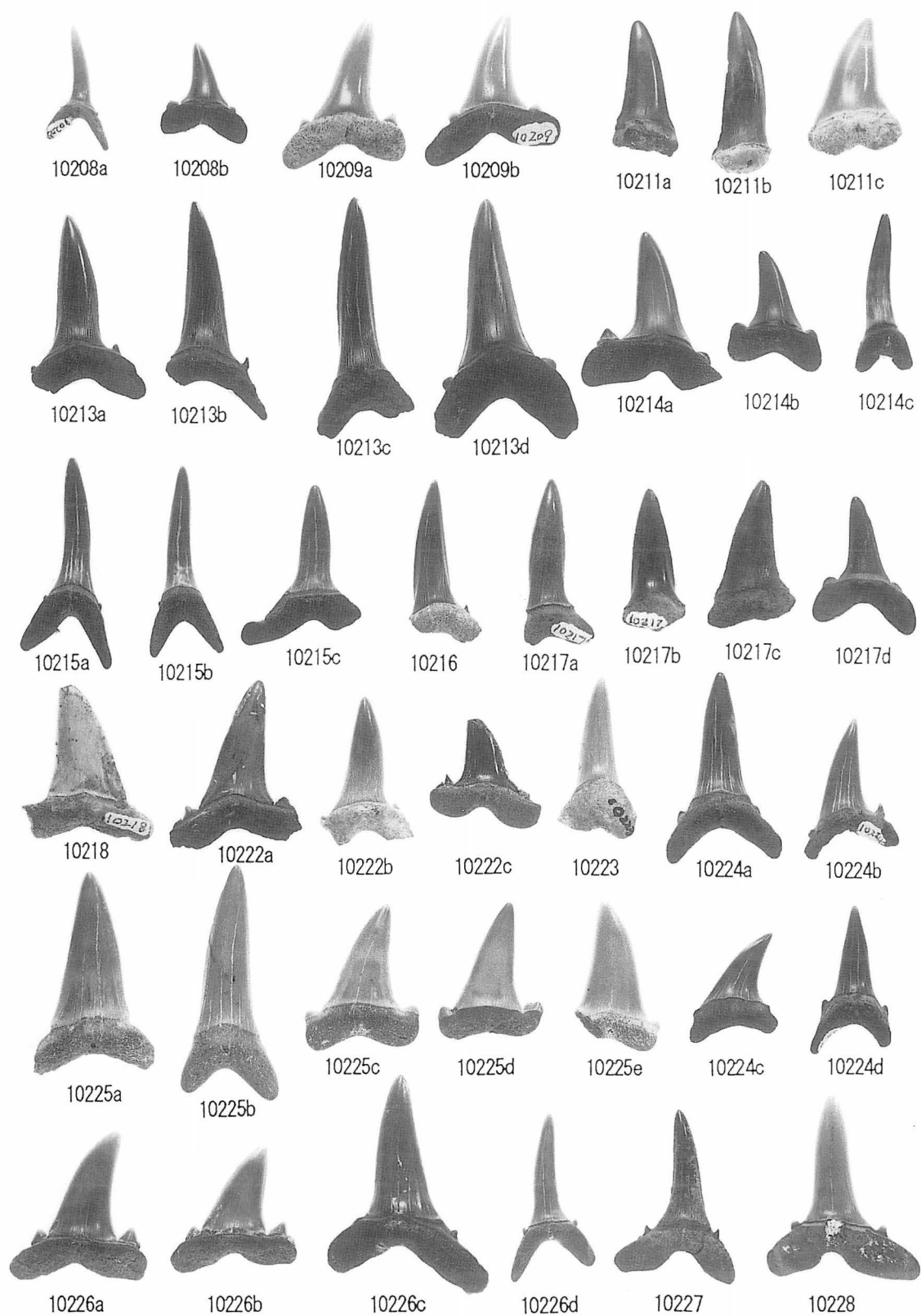
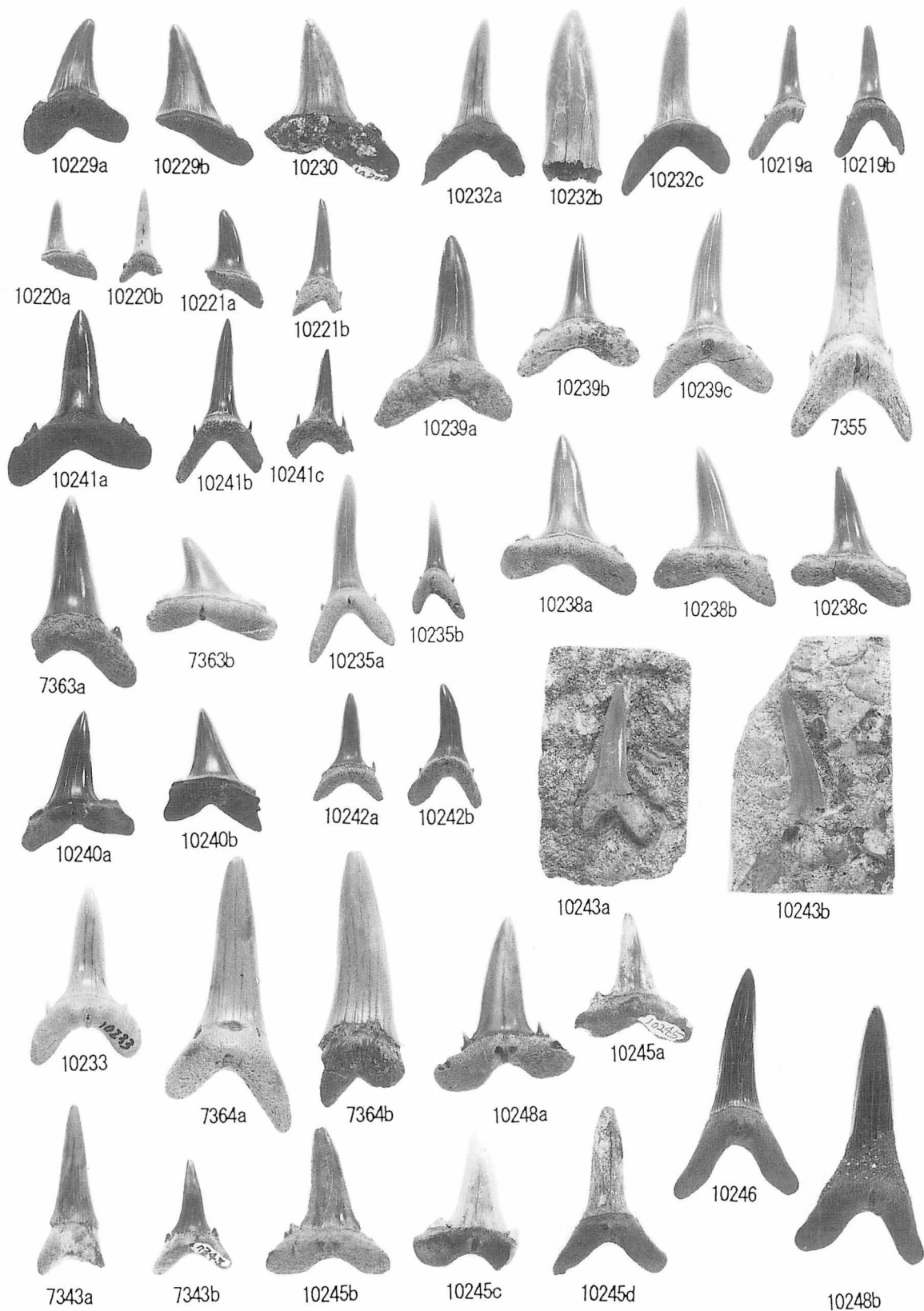


Plate 32 (× 1.0)



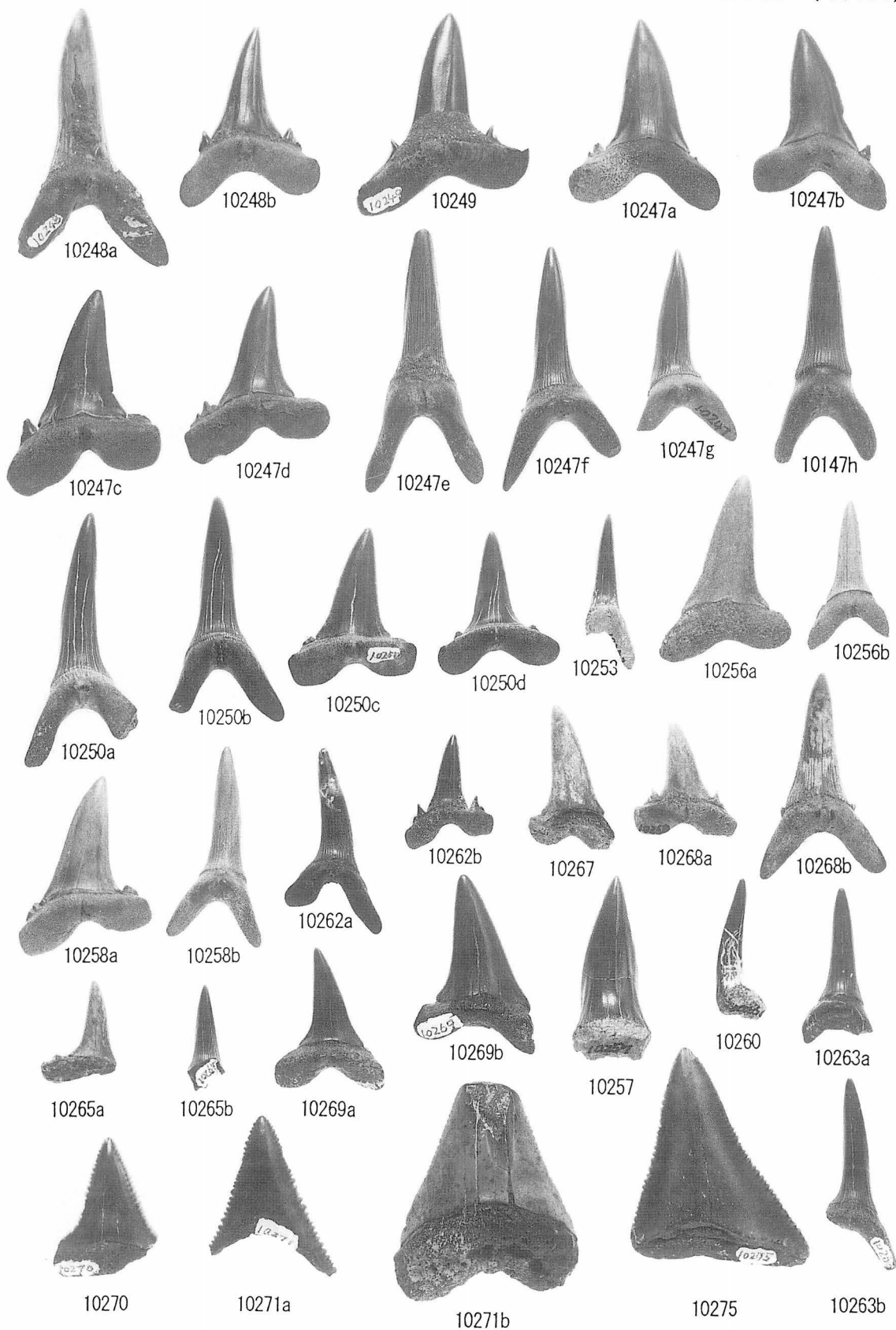
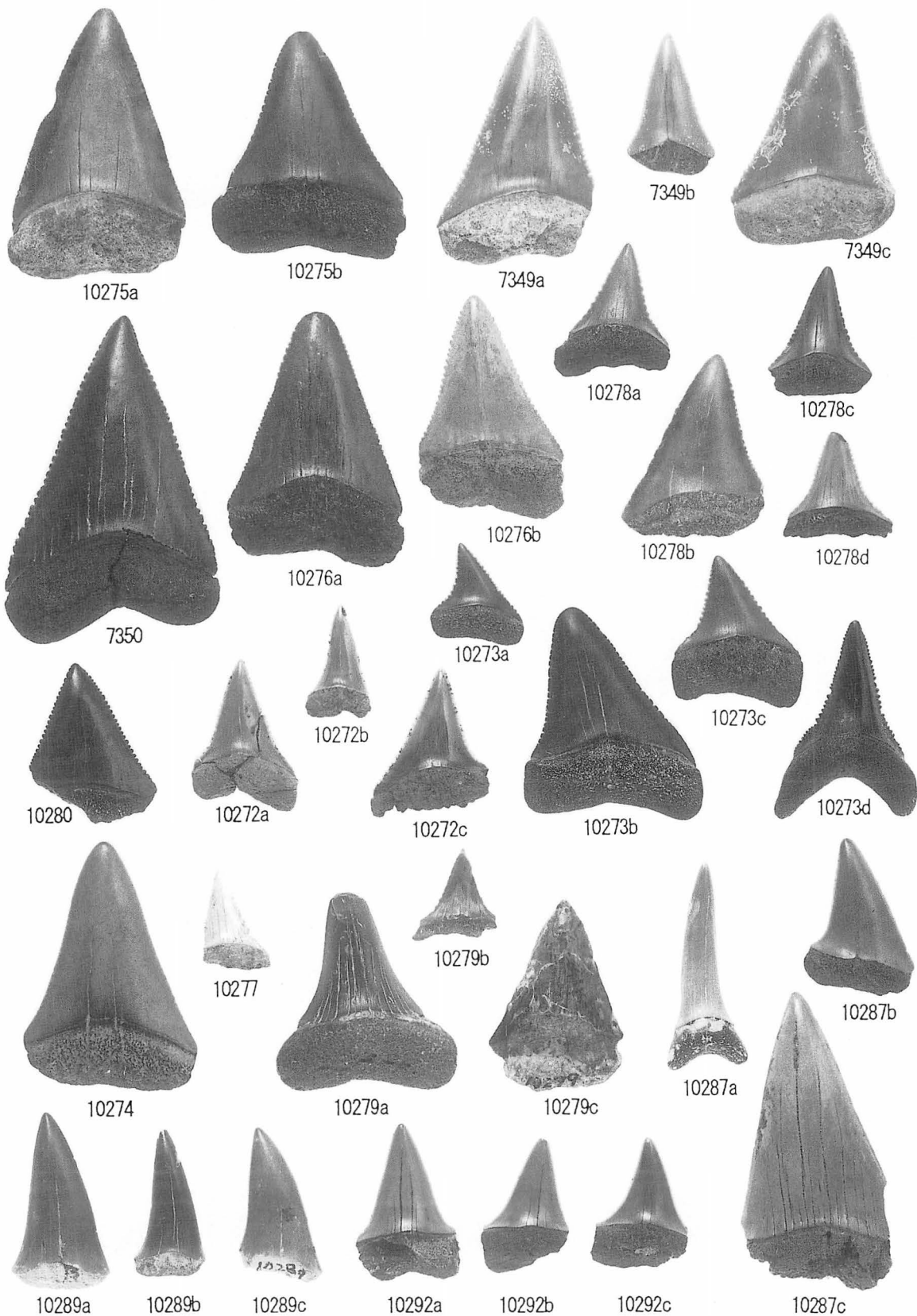


Plate 34 (× 1.0)



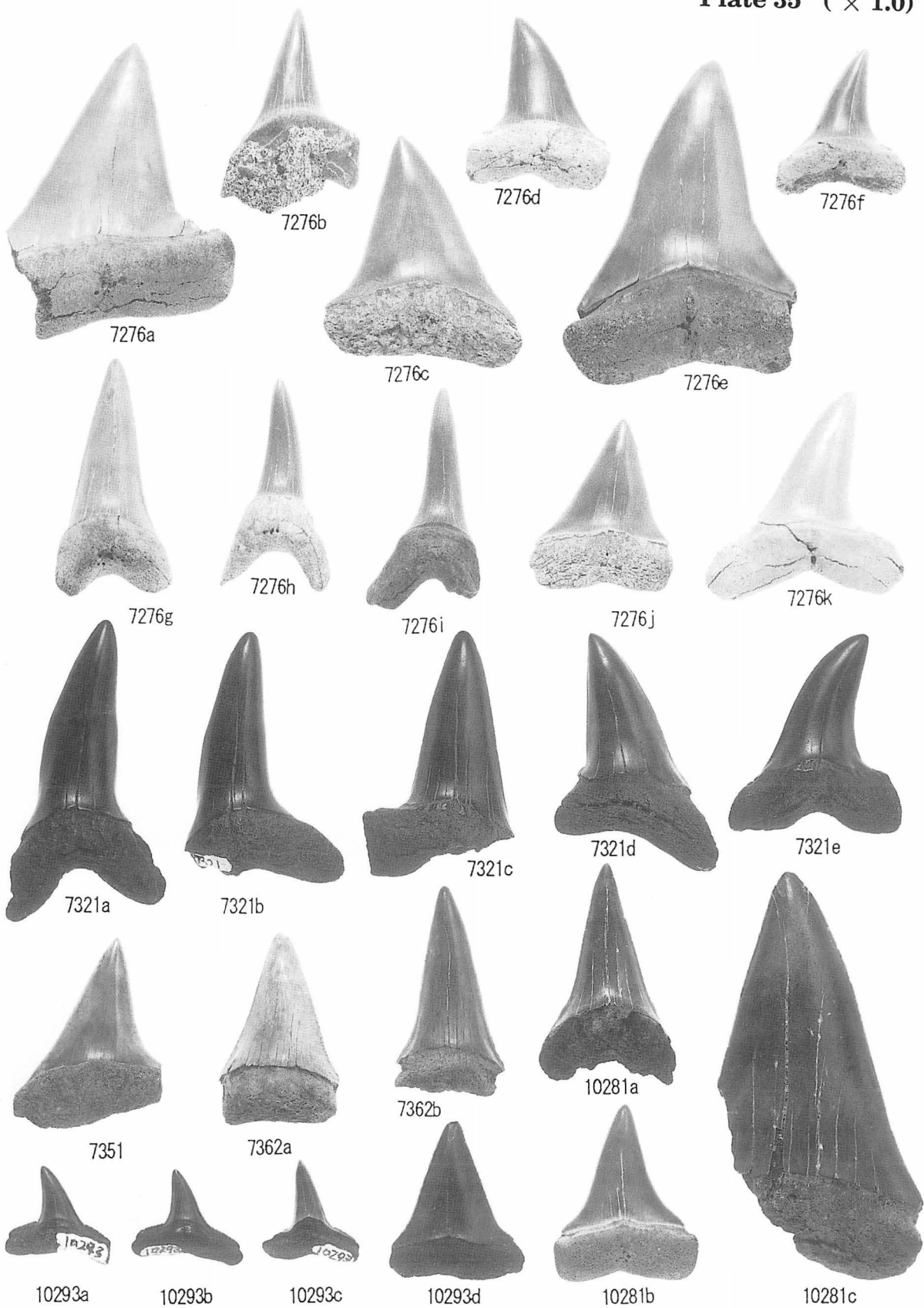
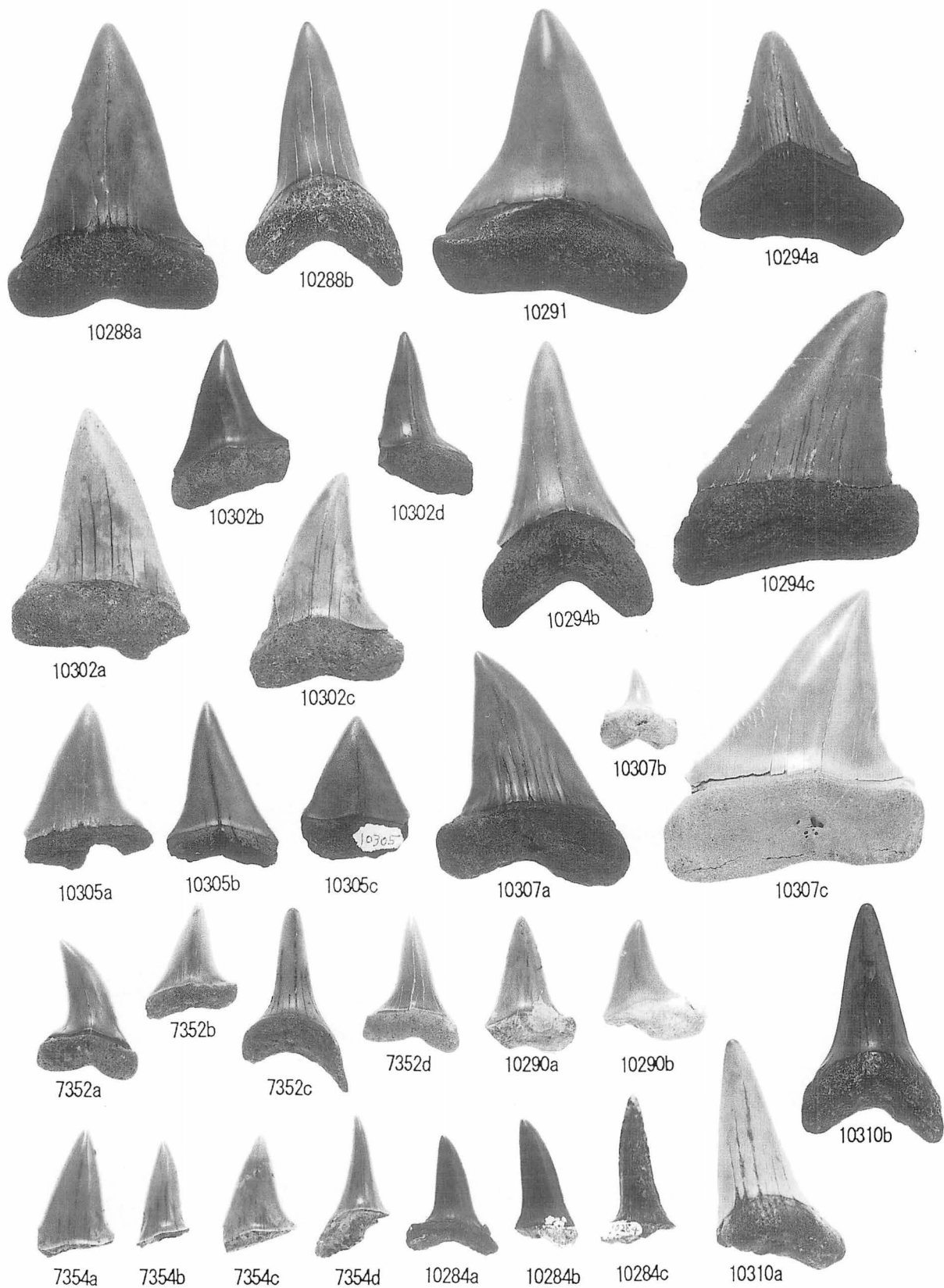


Plate 36 (× 1.0)



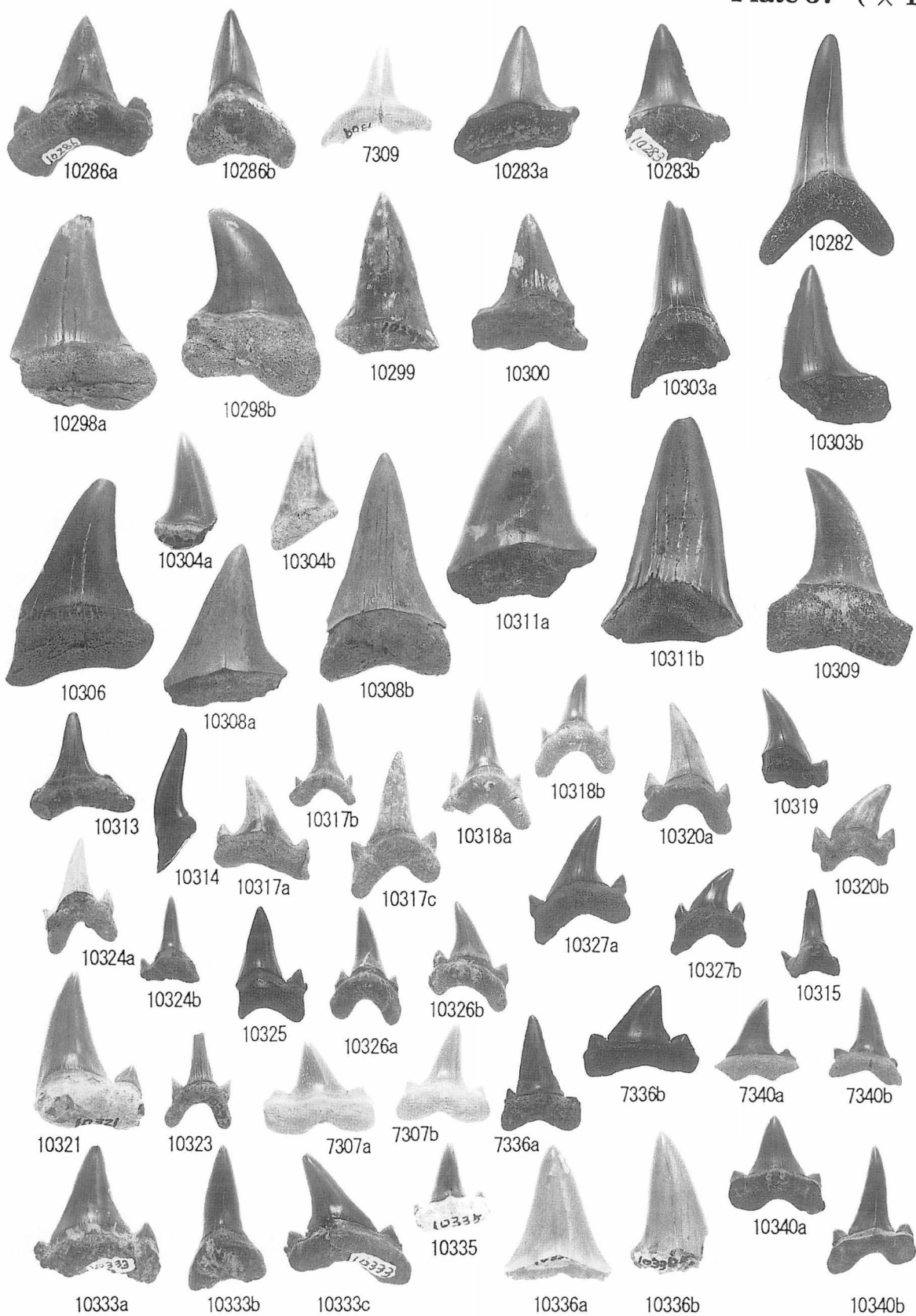
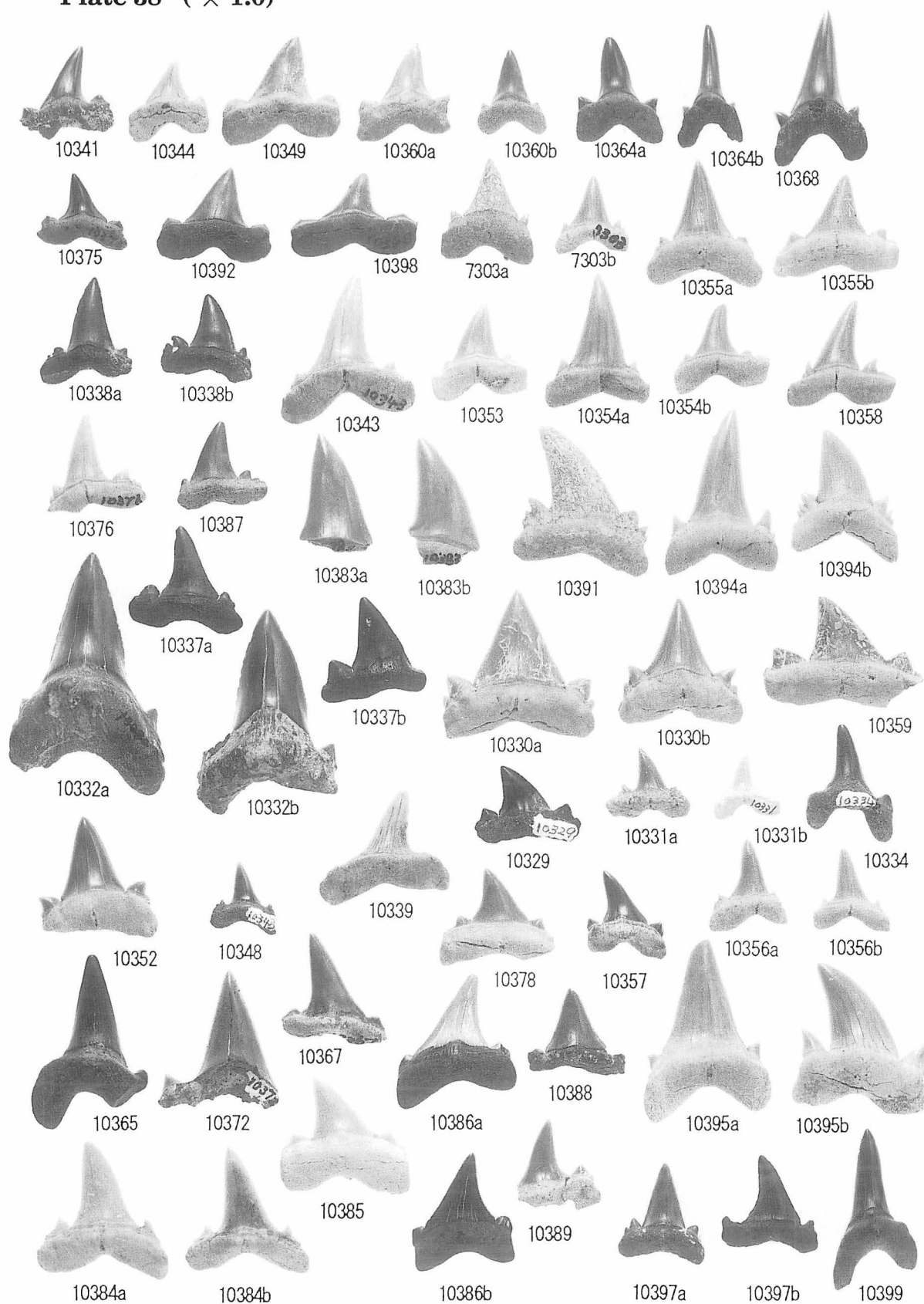


Plate 38 (× 1.0)



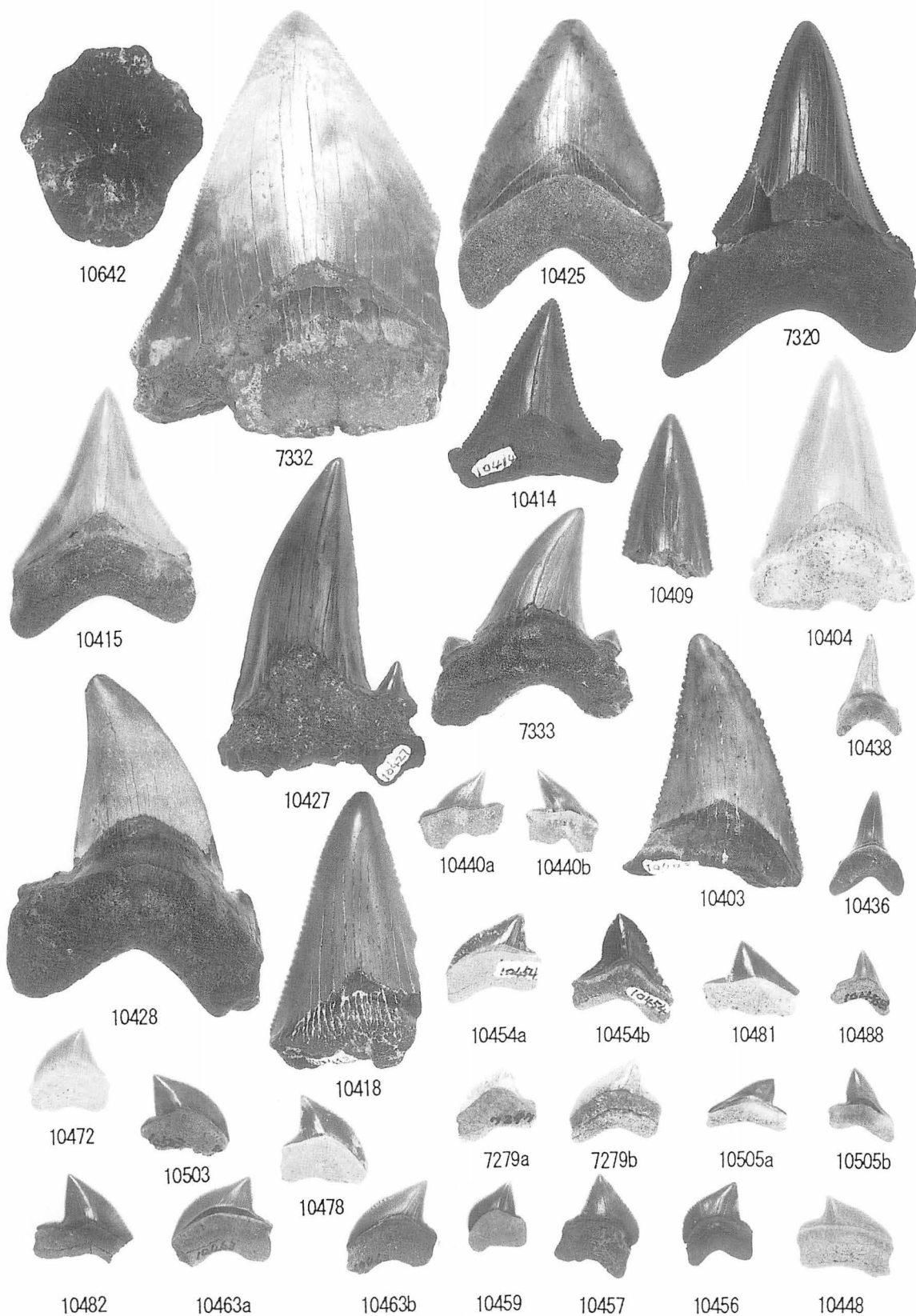


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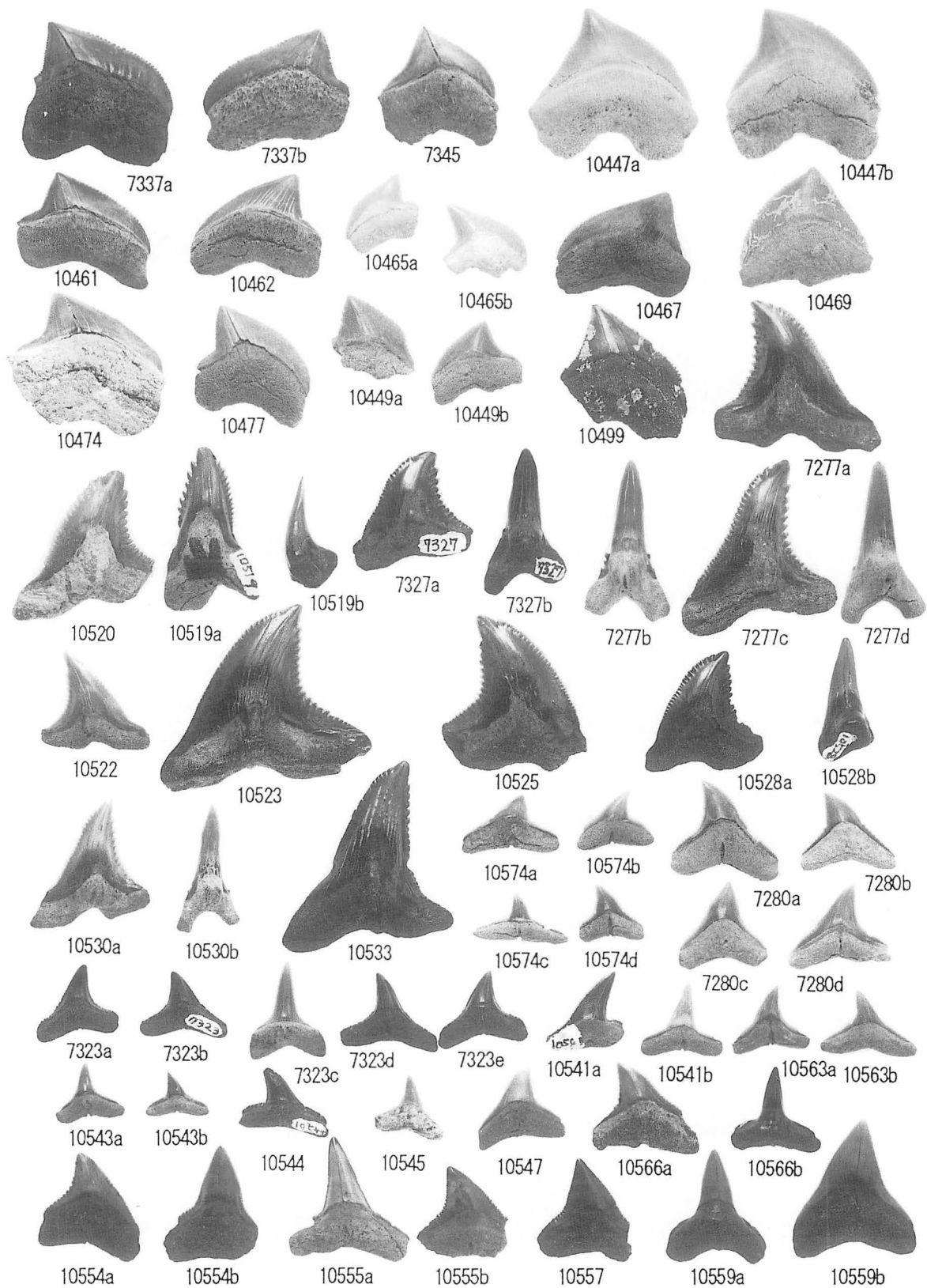


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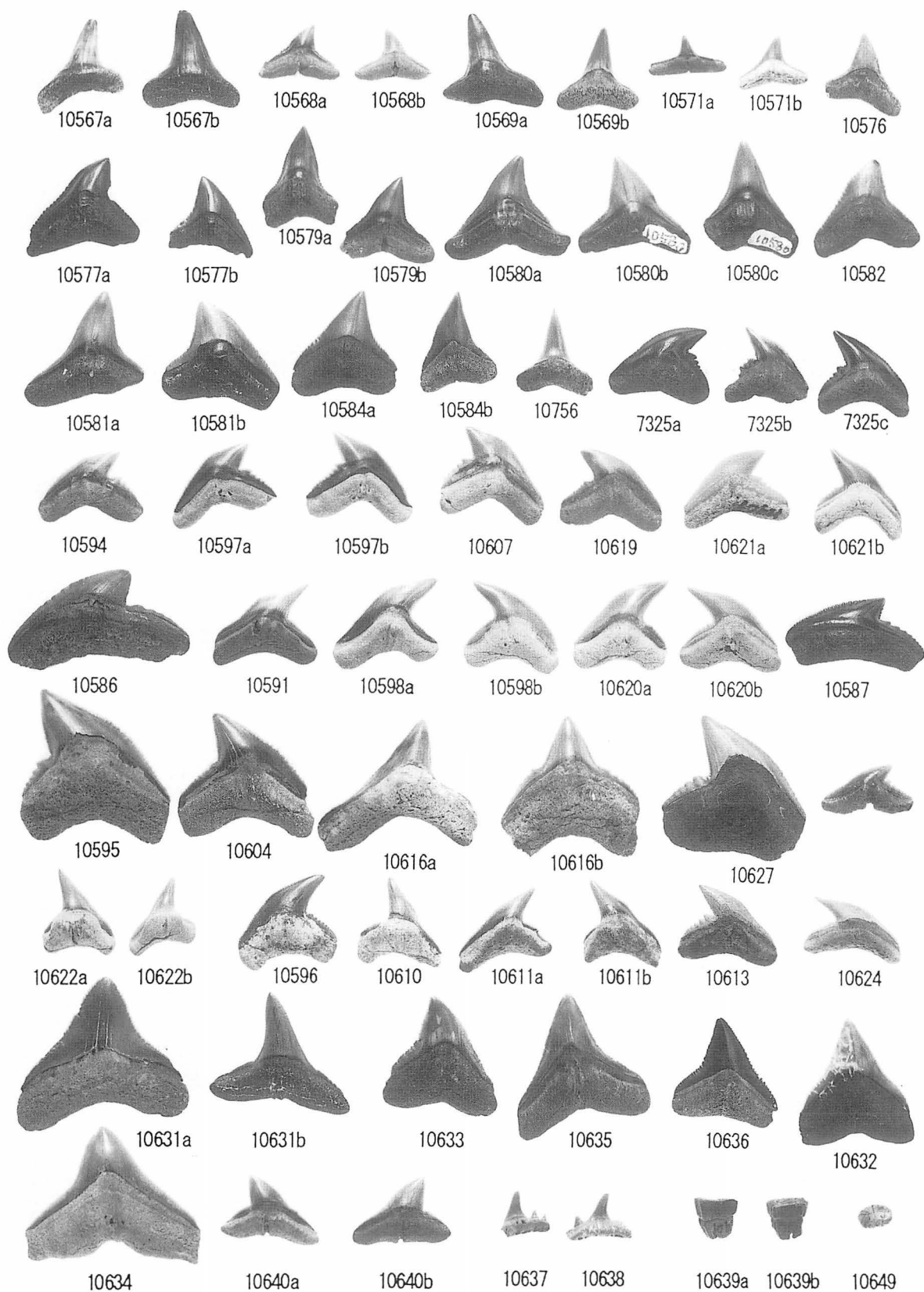


Plate 42 (× 1.0)

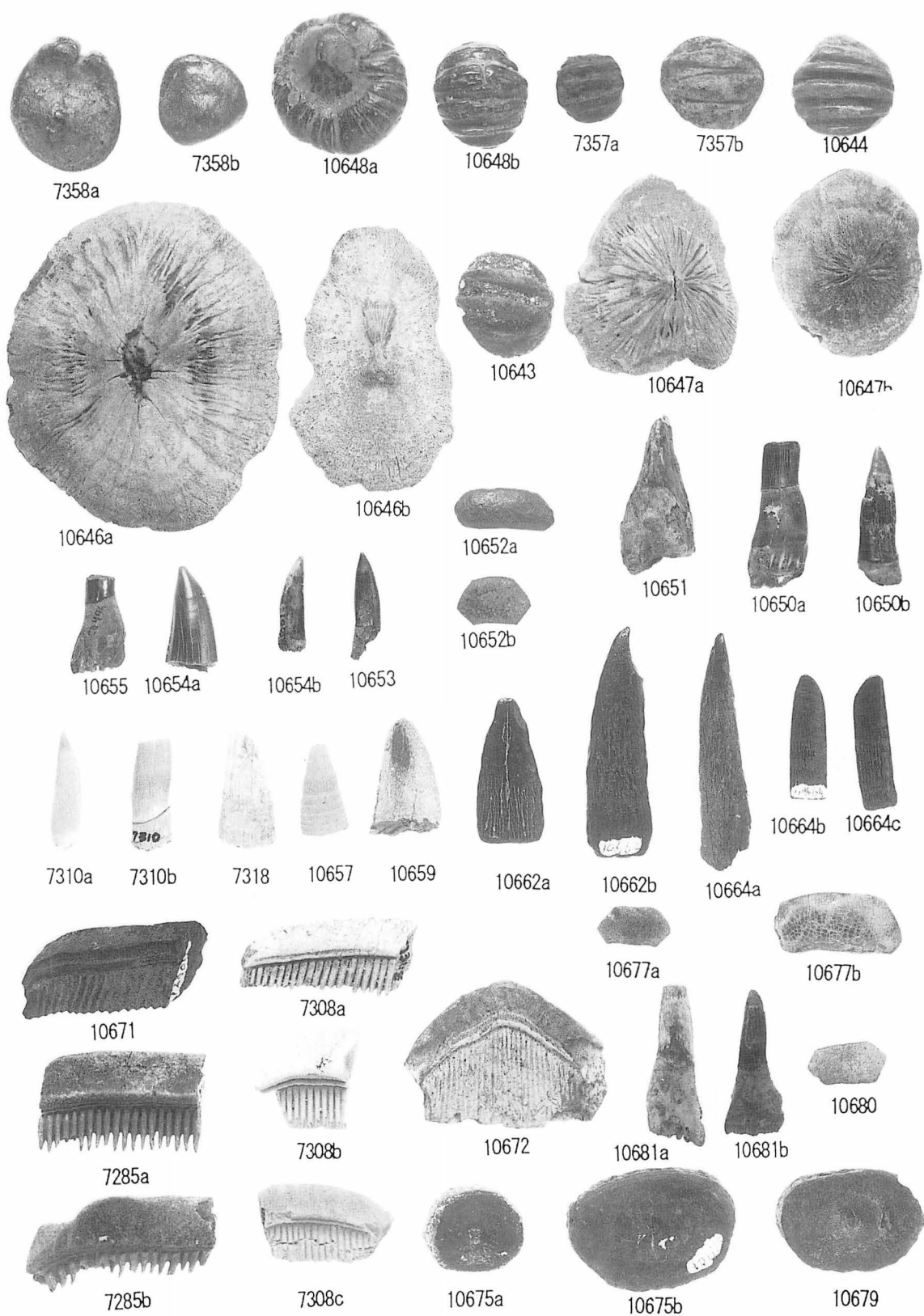


Plate 43 (× 1.0)

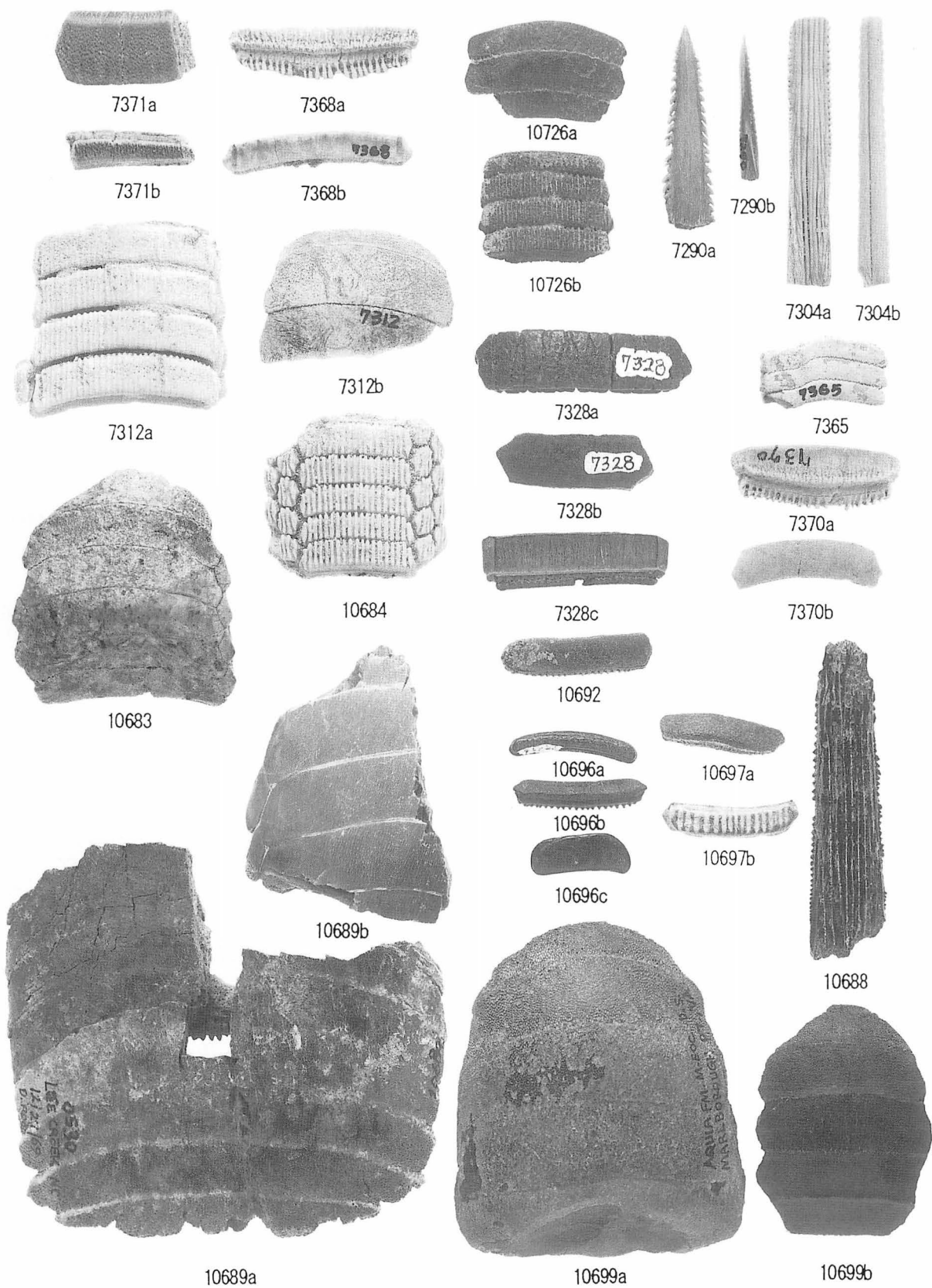


Plate 44 (× 1.0)



10702a



10706a



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10711a



10702b



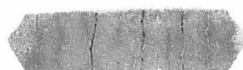
10706b



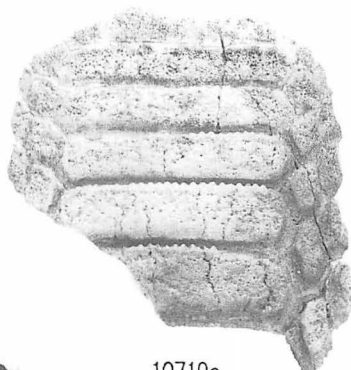
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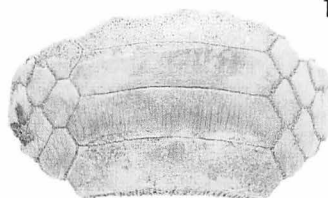
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10718



10719a



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10720b



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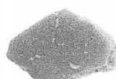
10724b



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<解説>

中生代・新生代軟骨魚類のGerard R. Caseコレクション

上野輝彌

(国立科学博物館)

G. R. Case氏が長い年月をかけて、研究のかたわら収集・蓄積してこられた、中生代と新生代の軟骨魚類の標本資料は、その質と量において我が国随一のものである。

Case氏はいくつもの論文の著者であるから、産地、地層、地質年代などに関する標本のデータは信頼のできる正確なものである。このたび神奈川県立博物館が古生代の軟骨魚類化石標本目録に続いて、Case氏の中生代・新生代軟骨魚類化石標本目録を写真とともに出版されるに至ったことは、サメ・エイ類の進化古生物学的研究に対する大きな貢献である。

他の脊椎動物の場合と同様に、軟骨魚類の進化の研究においてもっとも重要な形質は歯である。特に中生代後期から新生代にかけての軟骨魚類は歯の形態における分化が著しく、歯を見れば種類が分かる。また歯に基づいて新種の記載がなされる場合が多い。したがって、Caseコレクションの大きな部分は歯であり、一つ一つは小さいが重要な情報の源である。

中生代、新生代の軟骨魚類の分類体系は未だ完全の域に達しておらず、比較的最近になってまとめられたものにフランスのH. Cappetta博士(1987)による古魚類学ハンドブック第三巻B, 軟骨魚類Ⅱ, 中生代・新生代の板鰐類(Gustav Fischer Verlag刊)がある。Caseコレクションもこの本の体系にしたがって整理されている。Case氏はCappetta博士と共著の論文が幾つもあるので当然であろう。



図1 New Jersey州のCase氏宅に収められていたサメ類歯化石

しかし、Cappetta博士の1987年の分類体系も少しずつ見直しが進んでおり、科や属の定義などもさらに改定され、整理されて、明確にされつつある。現存の板鰓類に関しては南アフリカのL. J. V. Compagno博士（1984）や日本の白井滋博士の分類体系が現在注目を浴びている。

日本の博物館ではどうしても見える部分、すなわち展示や教育に力が入って、地味な見えない部分すなわち標本資料、調査、研究がおろそかにされがちであるが、世界的なCaseコレクションが散逸せず、神奈川県立博物館という永久保存のシステムに組み入れられ、未来の世代に貴重な自然史科学的情報源として保存されていくことになったことを、軟骨魚類に興味をもつ研究者の一人としてまことに喜ばしく思う次第である。

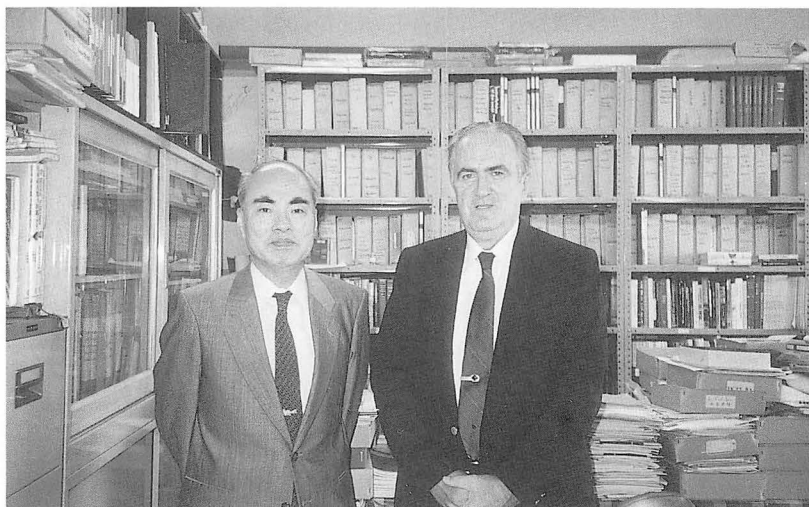


図2 国立科学博物館分館の古生物研究室を訪れたCase氏（右）と筆者（左）

Gerard R. Case 標本と日本の軟骨魚類化石研究

後藤仁敏

(鶴見大学・歯学部)

アメリカ合衆国のニュージャージー州リッジフィールドに住む建築デザイナーである Gerard Ramon Case氏は、軟骨魚類化石の研究者としても世界的に有名である。“Fossil Sharks: A Pictorial Review” (1973) と “A Pictorial Guide to Fossils” (1982) の2つの著書をはじめ、81篇もの学術論文をものしているのである（その大部分は軟骨魚類に関するものであるが爬虫類に関するものもある）。しかも、“Journal of Paleontology”、“Palaeontographica”、“Journal of Vertebrate Paleontology”などの一流の国際誌に堂々と論文を発表し、また、この分野の権威であるシカゴのフィールド自然史博物館のRainer Zangerl博士やフランスのモンペリエ大学のHenri Cappetta博士らと、共同研究をおこなっているのである。Case氏は、本職からもうかがえるように、化石のスケッチがたいへん得意で、彼の筆による素晴らしい図は、論文だけでなく、氏の著書やZangerl (1981) の教科書にも掲載されている。まさに、プロ顔負けのアマチュア古生物学者である。

このようなCase氏の30数年におよぶ脊椎動物古生物学に対する功績に対し、一昨年（1992年）、アメリカの古生物学会（The Paleontological Society）から“The Harrell L. Strimple Award”という名誉ある賞が贈られた（Schwimmer, 1993）。このことをご本人は、たいへん喜んでおられるようである。

同じサメ化石をやっていることから、私とも古くから交流があり、たくさんの論文や著書を贈っていただいていた。とくに、自分で出版された“Fossil Sharks: A Pictorial Review”はじつに素晴らしい本で、サメ歯化石のテキストとして最高のものである。この本には、著者の若い時の写真（図1）が掲載されており、私はそれを見るたびにサメを研究している人は皆このように“いい男”なのか（?）と感心したものであった。Case氏の2つの著書は、いつも私の座右にあり、新しい化石の名前をしらべる時、何よりもまず最初に開くようにしている。私もが運営していた化石研究会にも、当時唯一の外国人会員として入会していただいたりもした（当時の“Fossil Club”という名称が気に入られたせいか?）。そして、1991年10月には、標本を神奈川県立博物館に譲渡された機会に来日され、初めてお会いして親交を深め、日本産の標本の同定をしていただいた。

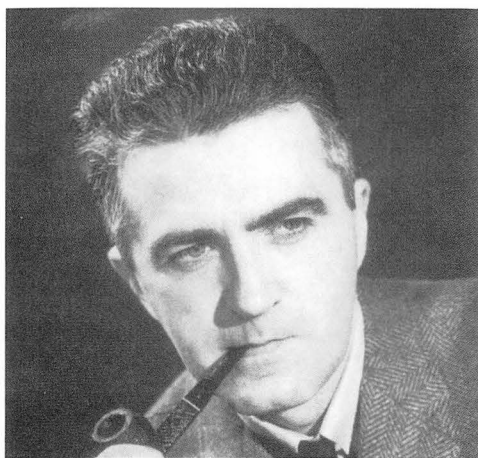


図1 Gerard R. Case氏の著書に掲載された著者の若いころの写真（1969年撮影）。氏はこの写真が気に入っているようで、2冊ともこの写真が掲載されている。

その折に、『Gerard Ramon Case軟骨魚類化石標本目録 第1集 古生代軟骨魚類化石』（1992）が出版されたが、今回、引き続いて『第2集 中生代・新生代軟骨魚類化石』が出版されることは、じつに嬉しいことである。そして、再び標本整理のために昨年9月に来日され、今回は私の勤務先の鶴見大学に来ていただき、総持寺を案内したのも、よい思い出になった。図2の写真は、その時私の研究室で撮影したものである。

この2冊の標本目録に収められたCase氏の軟骨魚類化石標本は、おそらく世界で有数の第一級コレクションであろう。私は、これまでCase氏の本でしか見たことのなかった標本を実際手に取って見た時、なにかまぶしいような、まるで夢でも見ているような感覚をおぼえた。このような素晴らしい標本が、私の住む神奈川県博物館に譲渡されるとは、なんと幸運なことだろうか。神奈川県は、軟骨魚類化石研究のメッカになると予想される。

思えば、私がサメ歯化石をテーマに選び、研究をはじめたのは、もう25年も前のことになった。その頃、日本産の魚類化石は、ほとんどが新生代第三紀中新世のものであった。その後、私がはじめて中生代・古生代の魚類化石を報告したのが1975年であり、それ以後、私の予想をはるかに越えて、次々とわが国の中生代・古生代の地層から魚類化石が発見されてきたのである。そして、ついにデボン紀の福地層から板皮類の皮甲化石まで発見されるに及んでいる（大倉・後藤,1992）。これらの化石の発見では、日本でも大倉正敏氏をはじめとするアマチュア古生物学者や各地の化石収集家がいへんな活躍をされている。

ちょうどそんな仕事が進み始めた時に、Case氏の標本が譲渡され、氏に会って標本を同定していただき、アメリカ産の標本のレプリカまで贈っていただいたのである。そのことがどれほど、私の日本産軟骨魚類研究を支え、はげましになったことか。私は、大倉氏ら日本のアマチュア古生物学者の方々とともに、アメリカのCase氏との交流を得て、まさに百万の味方を得た気がしている。初期中生代のヒポドゥス類の歯化石の論文（後藤ほか,1991）は、まさにCase氏の教示により出来上がったものである。現在、大倉氏らとの共同研究として氏の採集された日本産の石炭紀とペルム紀のペタロドゥス類やコクリオドゥス類の歯化石の研究を進めているが、これもCase氏の協力がなければとても我々の手に負えるものではなかった。古生物学などの自然誌（史）研究においては、比較できる標本の存在が決定的ともいえる重要な役割を果たすのである。

今回、収録された中生代・新生代軟骨魚類化石は、古生代のものに比べて、量的にきわめて突出している。標本番号はひとつでも、数十、時には数百本の歯からなるものもある。これらの標本のほとんどは、Case氏自身が現地を訪れ、氏自身によって採集されたものと聞いている。

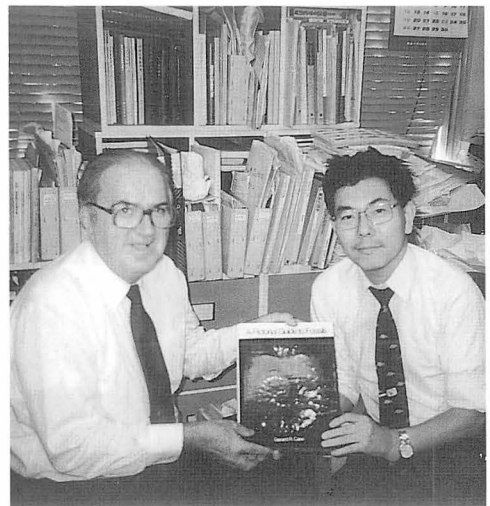


図2 Gerard R. Case氏（左）と筆者（1993年9月27日、鶴見大学解剖学教室にて）

Case氏の足跡は、アメリカ国内はじめ、カナダ・モロッコ・ロシア・ウズベキスタンなどに及んでいる。ページの関係で、とても全部は写真で紹介することはできない。代表的なものは、来春、新しく自然史関係の博物館が小田原市入生田に開館する際に、展示されるという。その折に、是非、博物館を訪れて、見ていただきたいと思う。なお、古生代の標本がZangerl (1981) の分類体系にしたがって整理されているのに対し、中生代・新生代の標本はCappetta (1987) の分類体系にもとづいて整理されている。詳しくしらべたい方は、この2冊の教科書を参照しながら2冊の標本目録の写真を見れば、3億8000万年におよぶ軟骨魚類進化のすべてを見ることができよう。

そして、今後、このような素晴らしい標本に魅せられた若い人びとのなかから、軟骨魚類の研究をやりたいという若者が、プロであれ、アマチュアであれ、きっと出てくるものと期待される。思えば、私自身も、高校生の時、岐阜県の瑞浪層群や三重県の一志層群（ともに第三紀中新世）から採集したサメ歯化石の青く、ときに茶色に輝くそのエナメル質の色の美しさに魅了され、大学の卒論でサメの歯をテーマに選んだのであった。それは、自然の営力が何千万年、何億年もかけてみがき、つや出しされたものなのである。Case氏も、きっとこの歯化石の美しさに魅せられたに違いない。

そのような若者といっしょに軟骨魚類化石の研究を進めることができたなら、どんなに楽しいだろうかと、いまから楽しみにしている。世界有数のコレクションであるCase標本が、わが国の軟骨魚類化石の研究の進歩に果たす役割は、きわめて大きいものとなろう。

最後に、永年にわたりこのような膨大な標本を集められたCase氏、整理されて目録を作成された神奈川県立博物館の関係者各位に深い感謝の意を表する次第である。

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標 本 目 録 索 引

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(No.は神奈川県立博物館地学標本番号)

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<i>minutissima</i>	10534		10557		7350
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	10536		10559		10277
	10537		10560		10279
	10538		10561	<i>Chimaera</i>	
	10539		10562	sp.	10752
	10540		10563	<i>Coupatezia</i>	
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<i>acutus</i>	10010		10565	<i>Cretodus</i>	
<i>braunii</i>	10011		10566	(<i>Plicatolamna</i>) <i>arcuata</i>	10317
<i>gaillardoti</i>	10008		10567		10318
<i>lateralis</i>	10000		10568		10319
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	10672		10582		7336
	10740		10583		7340
	10741		10584		10328
	10742		10756		10333
<i>Alopias</i>		spp.	7305		10335
cf. <i>A.superciliosus</i>	7287	<i>Carcharias</i>			10336
cf. <i>A.vulpinus</i>	10435	<i>steineri</i>	10091		10340
<i>Anomotodon</i>		<i>Carcharocles</i>			10341
sp.	10244	<i>angustidens</i>	10405		10342
<i>Anoxypristis</i>		<i>auriculatus</i>	7333		10344
<i>mucrodens</i>	7318		10403		10349
sp.	10656	cf. <i>C.auriculatus</i>	10401		10360
	10657	<i>megalodon</i>	7291		10364
<i>Asteracanthus</i>			7296		10368
<i>magnus</i>	10016		7332		10375
<i>ornatissimus</i>	7314		10406		10392
<i>ornatissimus</i> var. <i>A.flettonensis</i>	10018		10407		10398
(<i>strophodus</i>) <i>reticulatus</i>	10015		10412	<i>aschersoni</i>	10383
(<i>strophodus</i>) <i>tenius</i>	10017		10416		10391
<i>Brachyrhizodus</i>			10417		10394
<i>wichitaensis</i>	10675		10419	<i>biauriculata</i>	10337
	10676		10420	<i>biauriculata maroccana</i>	7303
	10677		10422		10355
	10678		10423	<i>biauriculata</i> var. <i>C.maroccana</i> ..	10330
	10679		10425		10359
	10680	sp.	7320		10377
	10681		10402	<i>caraibaea</i> var. <i>C.africana</i>	10331
<i>Burnhamia</i>			10404	<i>sulcata</i>	10334
<i>daviesi</i>	7369		10408	<i>woodwardi</i>	10332
<i>Carcharhinus</i>			10409	sp.	10329
<i>priscus</i>	10574		10410		10339
sp.	7280		10411		10345
	7306		10413		10346
	7323		10414		10347
	10541		10415		10348
	10542		10418		10351
	10543		10421		10352
	10544		10424		10356
	10545		10754		10357
	10546	<i>Carcharodon</i>			10361
	10547	<i>carcharias</i>	7282		10362
	10548		10270		10363
	10549		10271		10365
	10550		10272		10366
	10551		10273		10367
	10552		10275		10369
	10553		10276		10370
	10554		10278		10371
	10555		10280		10372

(NAME)	(No.)	(NAME)	(No.)	(NAME)	(No.)
	10373		10615	<i>Isurus</i>	
	10374		10624	<i>hastalis</i>	7276
	10378		10626		7321
	10379		10628		7334
	10380		10629		7351
	10381	<i>Galeorhinus</i>			7362
	10382	<i>minutissimus</i>	10512		10281
	10384	sp.	7288		10287
	10385		7311		10288
	10386		10511		10289
	10388		10513		10291
	10389		10514		10292
	10390		10515		10293
	10393		10516		10294
	10395		10517		10295
	10396		10518		10296
	10397	<i>Ginglymostoma</i>			10302
	10399	<i>africanum</i>	7373		10305
	10757	<i>angolense</i>	10071		10307
<i>Cretorectolobus</i>		<i>globidens</i>	10073		10310
<i>olsoni</i>	10069	<i>subafricanum</i>	7375	<i>macrorhiza</i>	10286
<i>Cretoxyrhina</i>		sp.	10070	<i>planus</i>	7352
<i>mantelli</i>	10642	<i>Hemipristis</i>	10072		7354
<i>Ctenopristis</i>		<i>serra</i>	7277		10301
<i>nougareti</i>	10748		7327	<i>praecursor</i>	10284
	10749		10519	sp.	10290
<i>Dasyatis</i>			10520		7309
<i>tetraedra</i>	7376		10522		7331
sp.	10668		10523		10282
	10669		10524		10283
	10670		10525		10285
<i>Echinorhinus</i>			10526		10297
<i>blakei</i>	10049		10527		10298
<i>Edaphodon</i>			10528		10299
sp.	7300		10530		10300
	7359		10531		10303
<i>Galeocerdo</i>			10532		10304
<i>aduncas</i>	7325		10533		10306
	10593		10755		10308
	10594	sp.	10521		10309
	10597		10529		10311
	10600	<i>Heterodontus</i>			10312
	10607	sp.	10067	<i>Lamna</i>	10753
	10609		10068	sp.	10313
	10617	<i>Hexanchus</i>		<i>Myledaphus</i>	
	10619	<i>microdon</i>	7372	<i>bipartitus</i>	10639
<i>contortus</i>	7326		10045	<i>Myliobatis</i>	
	10586		10739	<i>copeanus</i>	10725
	10591	<i>serratissimus</i>	10738	<i>dixonii</i>	7366
	10592	sp.	10046	<i>jugosus</i>	7371
	10596	<i>Hybodus</i>		<i>raouxii</i>	7368
	10598	<i>delabechei</i>	10005	<i>striatus</i>	10726
	10606	<i>grossiconus</i>	10004	<i>toliapicus</i>	10682
	10610	<i>longinus</i>	10001		10685
	10618	<i>rugosus</i>	10003		10687
	10620	sp.	10002	sp.	7279
	10622		10006		7290
	10623	<i>Hypotodus</i>			7304
<i>cuvieri</i>	7278	<i>robustus</i>	10078		7312
	10587		10079		7328
	10595		10080		7365
	10604		10081		7370
	10605		10082		10683
	10608	<i>Ischyodus</i>			10684
	10616	<i>bifurcatus</i>	7299		10686
	10625		7301		10688
	10627		10744		10689
<i>latidens</i>	10589		10745		10690
sp.	10588	sp.	10746		10691
	10590	<i>Ischyrrhiza</i>	7346		10692
	10599	<i>mira</i>	10650		10693
	10601		10651		10694
	10602		10652		10695
	10603		10653		10696
	10611		10654		10697
	10612		10655		10698
	10613				10699
	10614				10700

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(NAME)	(No.)	(NAME)	(No.)	(NAME)	(No.)
	10701		10114		10195
	10702		10115		10196
	10703		10116		10751
	10704		10117	ssp.	7305
	10705		10119		7313
	10706		10120	<i>Otodus</i>	
	10707		10121	<i>obliquus</i>	7319
	10708		10122		7344
	10709		10123		10426
	10710		10124		10427
	10711		10125		10428
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	10714		10128		10432
	10715		10129		10433
	10716		10130		10434
	10717		10131	sp.	10431
	10718		10132	<i>Palaeohypotodus</i>	
	10719		10133	sp.	10585
	10720		10134	<i>Paranomotodon</i>	
	10721		10135	<i>angustidens</i>	10438
	10722		10136	sp.	10436
	10723		10137		10437
	10724		10138	<i>Parotodus</i>	
	10742		10139	<i>benedeni</i>	7286
			10140	<i>Plinthicus</i>	
			10141	<i>stenodon</i>	7293
			10142		7294
			10143		10737
			10144	<i>Pristiophorus</i>	
			10145	sp.	7356
			10146		10054
			10147		10055
			10148		10056
			10149	<i>Pristis</i>	
			10150	<i>lathami</i>	10659
			10151	sp.	10658
			10152		10660
			10153		10661
			10154		10662
			10155		10663
			10156		10664
			10157		10665
			10158		10666
			10159		10667
			10160	<i>Protolamna</i>	
			10161	sp.	10400
			10162	<i>Protoplatyrhina</i>	
			10163	<i>renae</i>	10641
			10164	<i>Pseudocorax</i>	
			10165	<i>affinis</i>	10439
			10166		10440
			10167		10441
			10168	<i>laevis</i>	10443
			10169	sp.	10442
			10170	<i>Pseudohypolophus</i>	
			10171	<i>mcnultyi</i>	10649
			10172	<i>Pterolamiops</i>	
			10173	<i>longimanus</i>	7281
			10174		7339
			10175		10633
			10176		10635
			10177		10636
			10178	sp.	10632
			10179		10634
			10180	<i>Ptychodus</i>	
			10181	<i>decurrrens</i>	7315
			10182	<i>mammillaris</i>	10019
			10184		10020
			10185		10021
			10186		10022
			10187		10026
			10188		10027
			10189		10044
			10190	<i>whipplei</i>	10038
			10191	sp.	10023
			10192		10024
			10193		10025
			10194		10028
<i>Nebrius</i>					
<i>blanckenhorni</i>	10075				
	10076				
<i>maghrebianum</i>	7374				
<i>thielensis</i>	10074				
sp.	10077				
<i>Negaprion</i>					
sp.	10630				
	10631				
<i>Notorhynchus</i>					
<i>primigenius</i>	7360				
	10047				
	10048				
cf. <i>N.primigenius</i>	7284				
sp.	7283				
<i>Odontaspis</i>					
<i>crassidens</i>	10098				
<i>cuspidata</i>	7292				
<i>verticalis</i>	10090				
<i>winkleri</i>	10183				
sp.	7289				
	7295				
	7322				
	7324				
	7329				
	7330				
	7353				
	7361				
	10083				
	10084				
	10085				
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(NAME)	(No.)	(NAME)	(No.)	(NAME)	(No.)
	10029		10354	<i>Squatina</i>	
	10030		10358	<i>hassei</i>	10057
	10031		10376	<i>primr</i>	10062
	10032		10387	<i>sp.</i>	10058
	10033	<i>Sphyrna</i>			10059
	10034	<i>sp.</i>	10640		10060
	10035	<i>Squalicorax</i>			10061
	10036	<i>falcatus</i>	10450		10063
	10037		10451		10064
	10039		10452		10065
	10040		10453		10066
	10041		10454	<i>Striatolamia</i>	
	10042		10471	<i>macrota</i>	7341
	10043		10479		10197
<i>Raja</i>			10480		10198
<i>antiqua</i>	7358		10481		10199
	10648		10483		10200
<i>clavata</i>	7357		10485		10201
	10644		10486		10202
<i>dux</i>	10642		10488		10203
	10645		10489		10205
	10646		10490		10208
	10647		10492		10209
<i>mucronata</i>	7367		10493		10211
<i>sp.</i>	10643		10497		10213
<i>Rhombodus</i>			10498		10214
<i>binkhorsti</i>	7316		10505		10215
	7338	<i>kaupi</i>	7297		10216
	10728		10446		10217
	10729		10448		10218
	10730		10455		10222
	10731		10456		10223
	10732		10457		10224
	10733		10458		10225
	10734		10459		10226
	10736		10460		10227
<i>bondoni</i>	10735		10463		10228
<i>laevis</i>	10727		10468		10229
<i>Scapanorhynchus</i>			10472		10230
<i>texanus</i>	7335		10475		10231
	7343		10476		10232
	10245		10478	<i>striata</i>	10204
	10246		10482		10206
	10247		10503		10207
	10248		10504		10210
	10249		10506	<i>sp.</i>	10212
	10250	<i>pristodontus</i>	7337		10219
	10253		7345		10220
	10256		10444		10221
	10258		10447	<i>Synechodus</i>	
	10262		10461	<i>sp.</i>	10637
	10267		10462		10638
	10268		10465	<i>Synodontaspis</i>	
	10269		10467	<i>acutissima</i>	7355
<i>sp.</i>	10251		10469		10006
	10252		10470		10239
	10254		10473		10241
	10255		10474	<i>cuspidata</i>	7363
	10257		10477		10235
	10259		10484		10237
	10260		10487		10238
	10261		10494		10240
	10263		10495		10243
	10264		10496	<i>macrota</i>	10236
	10265	<i>yangensis</i>	10449	<i>substriata</i>	10234
	10266	<i>sp.</i>	10252	<i>teretidens</i>	10242
<i>Sclerorhynchus</i>			10445	<i>(cuspidata) teretidens</i>	10099
<i>sp.</i>	7310		10464	<i>vincenti</i>	10233
<i>Scyliorhinus</i>			10466	<i>sp.</i>	7364
<i>africanus</i>	10508		10491	<i>Weltonia</i>	
<i>brivesi</i>	10507		10499	<i>ancitrodon</i>	10750
<i>subulidens</i>	10509		10500	<i>Xiphodolamia</i>	
<i>sp.</i>	10510		10501	<i>ensis</i>	10314
<i>Serratolamna</i>			10502	学名不定	7342
<i>amonensis</i>	10118	<i>Squalus</i>			
<i>serrata</i>	10338	<i>sp.</i>	10050		
	10343		10051		
	10350		10052		
	10353		10053		

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