

**AN ANNOTATED BIBLIOGRAPHY OF PALEONTOLOGICAL AND SYSTEMATIC PAPERS  
ON FISH-OTOLITHS, PUBLISHED SINCE 1968\***

by

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The present paper constitutes a tentative to list all references of otolith publications posterior to, or not included in Weiler's 'Otolithi Piscium' (Fossilium Catalogus, Animalia, pars 117), published in 1968. After each reference, new species and/or illustrated recent otoliths are listed. Names of species are taken from the original publications, without evaluation of their validity. Finally an alphabetic, non-interpretative list of all fossil nominal species described since 1968 is given.

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## INTRODUCTION

With the publication of volume 117 (*Otolithi Piscium*) of the 'Fossilium Catalogus' Weiler (1968) supplied an extremely valuable basic document for the palaeontological and systematic study of otoliths. In this work Weiler gave an almost complete list of papers on recent and fossil otoliths then published. Simultaneously with a systematic list of illustrations of recent otoliths the author gave his interpretation of all published fossil species.

A rather complete library on this subject was composed by one of us (D.N.) after thoroughly collecting all the literature that has appeared since 1968. The interest in otoliths has increased in the same period among palaeontologists and ichthyologists. Therefore the number of papers published after this date and their importance are almost equal to all those that appeared before.

The authors decided to compose the present paper because during their otolith studies they constantly felt the need of a complementary bibliography. At first a list of references was composed by B. Huyghebaert, based on the collection of papers brought together by D. Nolf. Together with the references of papers published after 1968 those papers were included that were published before 1968 but not mentioned by Weiler. Subsequently the list was completed with bibliographic data collected in the library of J. Fitch, during a visit of D. Nolf in 1977. Moreover some forty additional references, mainly concerning not well-known older publications could be added after checking all the headings 'otoliths' in the Check-list of fishes of the north-eastern Atlantic and of the Mediterranean (CLOFNAM), edited by Hureau & Monod (1973). Finally a tentative for completion with the 'Dean Bibliography of Fishes' and of the 'Zoological Record' proved to be very time-consuming but less fruitful. All in all this may give an impression of the degree of completeness of the list.

As expressed in the title of this paper the authors concentrated in the first place on palaeontological and systematic literature, but also included a number of references concerning fishery, as well as physiology, cristallography, chemical composition etc. of otoliths. In these related fields, however, the references given will probably be less complete.

Titles of unpublished theses (e.g. those of Cappetta, Kartas, Lafond-Grellety, Lamber, Nolf, Pointer, Salem, Stringer and others) are deliberately omitted. Though of several of these documents a considerable number of mimeographed copies was distributed among specialists it is the opinion of the authors that they may not be regarded as publications in the sense of art. 8 and 8a of the International Code of Zoological Nomenclature. Citing chapters on otoliths in general works, as e.g. the 'Traité de Zoologie' of Grasse, the 'Lehrbuch der Paläozoologie' of Müller, the 'History of Fishes' of Norman, etc. has been renounced.

Besides bibliographic references the authors also wanted to list all the fossil species introduced after 1968 and of illustrations of recent species. Probably otolithology has made most progress in this last field. For this reason each reference is followed by the headings 'new fossil species' and 'illustrated recent otoliths'. All species are cited with the names used by the concerning author, whether valid or not. The composition of the name is the same as in the paper concerned.

The authors decided not to compose a systematic list of the recent material, because illustrations of recent otoliths that are badly identified or cited with incorrect names are rather frequently found in literature. For the fossil species they restricted themselves to an alphabetical list of the nominal species. A systematic list would have been more useful, but would have required a revision of a considerable number of species, many of which would have been useless or unjustified. It would have been a job largely exceeding the scope of the present paper.

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Basically the abbreviations of names of periodicals are those used by the periodical itself. In cases where it fails to give such an abbreviation the one suggested by Fischer, 1974 is used (Abkürzungsverzeichnis zum Zitieren von erdwissenschaftlichen Zeitschriften. - Schweiz. geol. Komm.: 1 - 30).

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- Illustrated recent otolith: *Nemipterus japonicus*.
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- Illustrated recent otoliths: *Otolithes cuvieri*, *Johnieops dussumieri*.
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- Illustrated recent otolith: *Benthodesmus* spec.
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- Illustrated recent otolith: *Syphurus?* *gilesi*.
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- Illustrated recent otoliths: *Conger conger*, *Trisopterus capelanus*, *Oligopus ater*, *Ophidion barbatum*, *Atherina presbyter*, *Pagellus bogaraveo*, *P. erythrinus*, *Trachurus picturatus*, *Argyrosoma regia*, *Diplodus vulgaris*, *Trachinus vipera*, *Arnoglossus imperialis*, *Ammodytes lanceolatus*.
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- Illustrated recent otoliths: *Osmerus eperlanus*, *Pterothrissus gisu*, *Gymnothorax saxicola*, *G. nigromarginatus*, *Arndha zebra*, *Notacanthus mosleyi*, *N. sexspinis*, *Rhinomuraena quaesita*, *Paraconger californiensis*, *Chirocentrus dorab*, *Etrumeus sadina*, *Konosirus punctatus*, *Pellona harroweri*, *P. hoevenii*, *Arius planus*, *Sirembo imberbis*, *Capros aper*, *Chanda nahu*, *Velifer hypselopterus*, *Moharra rhombea*, *Leiognathus rivulatus*, *Gazza minuta*, *Gerres argyreus*, *Leiognathus splendens*, *Haemulon flavolineatum*, *H. plumieri*, *H. aurolineatum*, *H. bonariensis*, *H. parrai*, *H. sciurus*, *Parapristopoma octolineatum*, *Pagellus natalensis*, *Toxotes jaculator*, *Blennius sanguinolentus*, *Atrosalarias fuscus*, *Opistognathus rhomaleus*, *Congrogadus subducens*, *Haliophis guttatus*, *Callionymus richardsoni*, *C. lyra*.
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- Illustrated recent otoliths: *Chlorophthalmus albatrossis, Ateleopus japonica, Beryx splendus, Gephyroberyx japonicus, Hoplostethus mediterraneus, Polymixia japonica, Zen itea, Parazen pacificus, Zenion pacificum, Rexea solandri, Leiognathus rivulatus, Psenopsis anomala, Upeneus bensasi, Cepola schlegeli, Branchiostegus japonicus auratus, Epigonus atherinoides, Apogon lineatus, Apogonichthys carinatus, Neoscombrops analis, Priacanthus boops, Acropoma japonicus, A. hanedai, Scombrops boops, Quinquarius japonicus, Malakichthys wakiai, M. elegans, Niphon spinosus, Chelidoperca hirundiaeae, Musterichthys gracilis, Owstonia grammndon, Neobythites fasciatus, N. sivicolus, Homostolus japonicus, Uranoscops japonicus, Triacanthodes anomalus anomalus, Setarches longimanus, Chascanopsetta lugubris, Physiculus japonica, Chaunax fimbriatus.*
- Ohe, F., 1976c. Comparative recent material to the fossil fishes from the Tertiary formations in Tokai region, Japan: The otoliths of the deep water fishes of the Seas of Kumano and Enshu. - 'Kaseki notomo', Rep. pub. Fossil Soc., 14: 17 - 22, 23 fig.
- Illustrated recent otoliths: *Pterothrissus gissu, Yarrella elongata, Hypomesus japonicus, Polyipnus stereope, Aulopus japonicus, Neoscopeleus macrolepidotus, N. microchir, Diaphus elucens, Ateleopus japonicus, Ophichthus urolophus, Beryx decadactylus, Zalantias azumanus, Epinephelus septemfasciatus, Malakichthys elegans, Caranx equula, Sebastes scythropus, Helicolenus hilgendorfi, Coelorhynchus kamoharai, C. kishinouei, Coryphaenoides nasutus, Hymenocephalus striatissimus, Ventrifossa garmani.*
- Ohe, F., 1976d. Comparative recent material to the fossil fishes from the Tertiary formations in Tokai region, Japan (3): The otoliths of the deep water fishes of the Seas of Kumano and Enshu. - 'Kaseti notomo', Rep. pub. Fossil Soc., 15: 9 - 15, 40 fig.
- Illustrated recent otoliths: *Anago anago, Conger japonica, Macrohamphosus japonicus, Xenolipidichthys dalglishi, Storomateoides sinensis, Psenopsis anomala, Taius tumifrons, Parapercis aurantica, P. minasedna, P. sexfasciata, Champsodon guentheri, C. snyderi, Hexagrammos otakii, Uranoscopus oligolepis, Synchiropus altivelis, Chaeturichthys hexanema, Acanthogobius flavimanus, Antigonia capros, Macrorhamphosodes uradoi, Neosebastes entaxis, Bembras japonicus, Lepidotrigla microptera, L. guntheri, Peristedion orientale, Satyrichthys amiscus, Kareius bicoloratus, Poecilopsetta plinthus.*
- Ohe, F., 1977a. Otoliths from Dainichi sand and Hosoya tuffaceous beds of Kakegawa Group (Pliocene), Shizuoka Prefecture, Central Japan. - 'Kaseki notomo', Tokai Fossil Soc., 16: 13 - 19, 56 fig.

Ohe, F., 1977b. Otoliths of coastal fishes of Ise Bay and Kumanonada. - Bull. Asahino Senior High School., 4: 149 - 158, 51 fig.

Illustrated recent otoliths: *Amphiprion xanthurus*, *Chrysiptera hollisi*, *Amphiprion ocellaris*, *Duymaeria flagellifera*, *Choerodon azurio*, *Prionurus microlepidotus*, *Chaetodon nippon*, *C. vagabundus*, *Stephenolepis cirrifer*, *Lagocephalus lunaris*, *Canthigaster rivulatus*, *Fugu rubripes*, *Pterois lunulata*, *Sebasticus marmoratus*, *Sebastes inermis*, *Scorpaena neglecta miostoma*, *Inimicus japonicus*, *Hoplichthys fasciatus*, *Pseudoblennius percoides*, *Pseudoblennius cottoides*, *Hippoglossoides duhius*, *Pleuronectes* sp., *Zebrias japonicus*, *Zebrias* sp., *Cynoglossus joyneri*, *Spatelloides japonicus*, *Saurida tumbil*, *Synodus variegatus*, *Chlopsis fiersfer*, *Conger myriaster*, *Conger* sp., *Hippocampus takakurei*, *Fistularia petimba*, *Lepidocybium flavobrunneum*, *Rachycentron canadum*, *Parupeneus indicus*, *Histiopterus typus*, *Apogon endekataenia*, *Priacanthus macracanthus*, *Micropterus salmonides*, *Aulacocephalus temmincki*, *Epinephelus fasciatus*, *Sacula margaritacea*, *Erythrocles schlegeli*, *Hapalogenys nigripinnis*, *Goniistius zebra*, *G. zonatus*, *Bembrops filodorsalis*, *Calliurichthys japonicus*, *Dascyllus trimaculatus*.

Ohe, F. & Y. Araki, 1973. Some Miocene fish otoliths from the Yakuoji Formation, Tsu, Mie Prefecture. - Sci. Rep. Tohoku Univ. Geol., 6: 407 - 413, pl. 49.

New fossil species: *Diaphus angulatus*, *D. hataii*, *Lampanyctus kuboensis*, *Hygophum rotundum*, *Notacanthus circulus*, *Coelorhynchus yakuojiensis*.

Ojaveer, E., 1962. [ On differentiation on the herring seasonal races in the North Eastern Baltic by means of otoliths ]. Jzv. - Akad. Nauk. Est. SSR, ser. biol., 11 (3): 193 - 208, 3 fig., 2 microph. (in Russian, with English summary). Illustrated recent otolith: *Clupea harengus membras*.

Pana, I., 1977. Problems arisen by the appearance of the new otoliths species and their stratigraphical implications.

Examples of Dacian otoliths from S. Dobrudja. - An. Univ. Bucuresti, Geol., 26: 105 - 124, 4 fig., pl. 1 - 5.

New fossil species: *Gobius gibbosus*, *Sciaena moguntiniformis*, *Corvina rumana*, *C. dobrogica*, *C. dacica*.

Pana, I. & D. Pana, 1978. La valeur biostratigraphique des otolithes pliocènes. - Rev. Roum. Géol. Géophys. et Géogr., Géologie, 22: 103 - 119, 2 fig.

Panella, G., 1971. Fish otoliths: daily growth layers and periodical patterns. - Science, 173: 1124 - 1127, 2 fig.

Illustrated recent otolith: *Merluccius bilinearis*.

Palmork, K. H. & M. E. U. Taylor, 1963. The crystal structure of aberrant otoliths. - Acta Chem. Scand., 17 (5): 1457 - 1458, 2 fig.

Pinkas, L., M. S. Oliphant & I. L. K. Iverson, 1971. Food habits of Albacore, bluefin tuna, and Bonito in California Waters. - Fish Bull., 152: 3 - 105, 50 fig.

Illustrated recent otoliths: *Engraulis mordax*, *Cololabis saira*, *Tarletonbeania crenularis*.

Post, A. & T. Hecht, Results of the research cruises of the F.R.V. 'Walt Herwig' to South America, 49. The otoliths of *Diretmus Johnson*, 1863 (Osteichthyes, Beryciformes, Diretmidae). - Mitt. Hamburg Zool. Mus. Inst., 74: 165 - 170, 3 fig.

Illustrated recent otoliths: *Diretmus argenteus*, *D. pauciradiatus*.

Priol, E. P., 1932. Remarques sur les espèces de Grondins les plus communs des côtes de France. - Revue Trav. Off. (scient. tech.) Pêch. marit., 5 (2): 223 - 257.

Illustrated recent otoliths: *Trigla lucerna*, *Aspitrigla cuculus*, *Eutrigla gurnardus*, *Trigloporus lastoviza*.

Quinet, G. E., P. Coupataz & G. Wouters, 1970. Note préliminaire sur la faune ichthyologique et les otolithes de l'Ypresien belge de Montroéul-au-Bois, en Hainaut, Belgique. - Bull. Inst. r. Sci. nat. Belg., 46 (33): 1 - 6, pl. 1 - 2.

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- Illustrated recent otolith: *Brachydeuterus auritus*.
- Rannou, M., J. G. Nielsen & J. C. Hureau, 1975. Note sur quelques Aphyonidae de l' Atlantique Nord (Téléostéens, Ophidioidei). - Bull. Mus. natl. Hist. nat. Paris (3<sup>e</sup> sér.), 247 (1974): 1249 - 1257, 4 fig.
- Illustrated recent otoliths: *Aphyonus gelatinosus*, *Leucochlamys galatheae*.
- Rannou, M. & C. Thiriot-Quievreux, 1975. Structure des otolithes d'un Macrouridae (poisson gadiforme) bathyal. Etude au microscope électronique à Balayage. - Ann. Inst. Océanogr., Paris, 1975, 51 (2): 195 - 201.
- Robba, E., 1970. Otoliti del Tortoniano-tipo (Piemonte). - Riv. Ital. Paleont., 76 (1): 89 - 172, pl. 8 - 16.
- New fossil species: *Myctophum rossiae*, *Hygophum agatense*, *Gadus robustus*, *Glyptorhynchus triangulus*, *Holocentrus? weileri*, *Bauzaia tuberosa*, *B. ornatissima*, *Porichthys pedemontanus*.
- Rosenblatt, H. & A. Bell, 1976. Osteology and relationships of the roosterfish, *Nematistius pectoralis* Gill. - Los Angeles County Mus. Contrib. in Sci., 279: 1 - 23. 18 fig.
- Illustrated recent otoliths: *Nematistius pectoralis*, *Caranx marginatus*.
- Rosenblatt, R. & I. Rubinoff, 1972. Pythonichthys asodes, a new Heterenchelyid eel from the Gulf of Panama. - Bull. Marine Sci., 22 (2): 355 - 364, 3 fig.
- Illustrated recent otolith: *Pythonichthys asodes*.
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- This paper gives illustrations of 186 species of otoliths of marine fishes from the East Atlantic, from the Baltic Sea to the Gulf of Guinea. Each otolith is represented by a schematical drawing and a photograph, unfortunately made without previous coloration of the specimens.
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- Schwarzhan, W., 1973. Einige Otolithen aus dem Unteroligozän von Hückelhoven unter besondere Berücksichtigung der Evolution der Trachinidae. - Meded. Werkgr. Tert. Kwart. Geol., 10 (2): 31 - 43, pl. 1 - 2.
- New fossil species: *Apogonidarum ventrolobatus*, *Callionymus schuermannii*, *Bothidarum rhombooides*, *Trachinus gaemersi*.
- Schwarzhan, W., 1974. Die Otolithen-Fauna des Chatt A und B (Oberoligozän, Tertiär) vom Niederrhein, unter Einbeziehung weiterer Fundstellen. - Decheniana, 126 (1/2): 91 - 132, 78 fig., pl. 1 - 3.
- New fossil species: *Notogenous brevirostris*, *Trisopterus kasselensis*, *Macrurus rectangularis*, *Serranus krefeldensis*, *Mupus neumannii*, *Pagrus gaemersi*, *Scombridarum bisculptatus*, *Bothidarum weileri*, inc. sed. *tenuicauda*.
- Schwarzhan, W., 1976. Die fossilen Otolithen der Gattung *Bathycongrus* (Meer-Aale; Congridae, Pisces). - Senckenb. Lethaea, 56 (6): 469 - 477, 4 fig.
- New fossil species: *Bathycongrus twistringenensis*.
- Illustrated recent otolith: *Congermuraena bowersi*.
- Schwarzhan, W., 1977. Otolithen aus dem Unteroligozän (Tertiär) von Hückelhoven (Kreis Heinsberg, Nordrhein-Westfalen). - Decheniana, 130: 268 - 292, 34 fig.
- New fossil species: *Osmeridarum rectidorsalis*, *?Saurida indansi*, *Phycis praecognatus*, *Bregmaceros oblongus*, inc. sed. *spinosus*.

- Schwarzhan, W., 1978. Otolith-morphology and its usage for higher systematical units with special reference to the Myctophiformes s.l. - Meded. Werkgr. Tert. Kwart. Geol., 15 (4): 167 - 185, 9 fig., pl. 1 - 3.  
 Illustrated recent otoliths: *Elops hawaiiensis*, *Megalops cyprinoides*, *Chlorophthalmus nigripinnis*, *C. agassizi*, *Aulopus curtirostris*, *Saurida tumbil*, *S. undosquamis*, *Synodus variegatus*, *S. luciopes*, *Trachinocephalus myops*, *Bathypterois longifilis*, *Scopelosaurus harryi*, *S. lepidus*, *Ipnops* sp., *Harpodon translucens*, *Benthophilus macropinna*, *Sudis jayakara*, *Omosudis lowei*, *Paralepis atlanticus*, *Diaphus rafinesquei*, *Neoscopelus microchir*, *N. macrolepidotus*, *Aphyonus gelatinosus*, *Onuxodon margaretiferae*, *Lepophidium prorates*, *Neobythites marginatus*, *Dipulus caecus*, *Holcomycterous pterotus*, *Genypterus blacodes*, *Brotula barbata*, *Phycis* sp., *Gadiculus argenteus*, *Coelorhynchus carminatus*, *Hymenocephalus* sp., *Chalinura leptolepis*, *Bathygadus novus*.
- Schwarzhan, W., 1979. Otolithen aus dem Unter-Pliozän von Süd-Sizilien und aus der Toscana. - Berliner geowiss. Abh., 1978 (A) 8: 1 - 52, 4 fig., pl. 1 - 13.  
 New fossil species: *Myctophum unicum*, *Diaphus crassus*, *Gymnoscopelus fitchi*, *Hygophum agrigentensis*, *Hygophum? orciensis*, *Electrona anfossimosa*, *Micromesistius boscheineni*, *Nezumia contemplata*, *Heptocara pauper*, *Brotulidarum cetonaensis*, *Gobius truncatus*, *Citharopsettodes angustus*.  
 Illustrated recent otoliths: *Myctophum aurolateratum*, *M. punctatum*, *Symbolophorus evermanni*, *Benthosema glaciale*, *B. fibulata*, *Diaphus theta*, *Lobianchia dofleini*, *L. gemellari*, *Gymnoscopelus fraseri*, *Ceratoscopelus townsendi*, *Hygophum atratum*, *Triphoturus mexicanus*, *Protomyctophum crockeri*, *Gadiculus argenteus argenteus*, *Coelorhynchus carminatus*, *C. scaphopsis*, *C. fasciatus*, *C. coelorhynchus*, *C. australis*, *Lepidorhynchus denticulatus*, *Ventrifossa occidentalis*, *Nezumia bairdi*, *N. convergens*, *N. nigromaculata*, *N. aequalis*, *N. orbitalis*, *Coryphaenoides acrolepis*, *Macrourus berglax*, *Coryphaenoides rupestris*, *Hymenocephalus striatissimus*, *H. italicus*, *H.* sp., *Albatrossia pectoralis*, *Trachyrhynchus trachyrhynchus*.
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 Illustrated recent otolith: *Engraulis encrasiculus*.
- Sieber, R. & E. Weinfurther, 1967. Otolithen aus tiefen Gosauschichten Österreichs. - Ann. Naturhistor. Mus. Wien, 71: 353 - 361, pl. 1.  
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- Skalkin, V. A., 1961. Otolity treskoykh ryb (sem. Gadidae) dalnevostochnykh morei (The otoliths of Gadidae from seas of the Far East). - Vopr. Ikhtiol., 1, 2 (19): 286 - 289.  
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- Skalkin, V. A., 1963. Otolity nekotorykh ryb dalnevostochnykh morei (The otoliths of some fishes from seas of the Far East). - Jzv. tikho-ok. naoutch. éd. Inst. ryb. Khoz. okeanogr., 49: 159 - 199, 46 fig., pl. 1 - 9.  
 Illustrated recent otoliths: *Clupea harengus pallasi*, *Engraulis japonicus*, *Oncorhynchus gorbuscha*, *Salvelinus leucomaenis*, *S. malma*, *Hypomesus olidus*, *Leuciscus brandti*, *Gasterosteus aculeatus*, *Cololabis saira*, *Trichiurus japonicus*, *Sebastodes tacanowskii*, *S. alutus*, *Sebastolobus alascanus*, *Anoplopoma fimbria*, *Hexagrammus octogrammus*, *Pleurogrammus azonus*, *Myoxocephalus* sp., *M. verrucosus*, *Hemitripterus villosum*, *Gymnophantherus herzensteini*, *Triglops beani*, *Icelus spiniger*, *Artediellus pacificus*, *Podothecus acipenserinus*, *P. gilberti*, *Liparis pulchellus*, *Hippoglossoides elassodon elassodon*, *Atherestes evermanni*, *A. stomias*, *Hippoglossus stenolepis*, *Lepidotetta bilineata*, *Limanda aspera*, *Liopsetta obscura*, *Glyptocephalus stelleri*, *Stichaeus grigorjevi*, *S. nozawae*, *Bathymaster signatus*, *Lycodes palearis arcticus*, *Hypoptichthus dybowskii*, *Coryphaenoides* sp.
- Smigelska, T., 1973. Fish otoliths from the Lower Tortonian deposits at Niskowa near Nowy Sacz. - Ann. Soc. Géol. Pol., 43 (1): 3 - 40, 5 fig., pl. 1 - 5.  
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- Spratt, J. D., 1975. Anomalous otoliths from the northern anchovy, *Engraulis mordax*. - Calif. Fish and Game, 61 (4): 235 - 236, 1 fig.  
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 Steurbaut, E., 1979a. Otolithes de Téléostéens de quelques formations continentales d' age Aquitanien du midi de la France. - Bull. Soc. belge Géologie, 87 (3): 179 - 188, 1 pl.  
 New fossil species: 'genus Umbridarum' *ringeadei*, 'genus Cyprinodontidarum' *angulosus*, 'genus Cyprinodontoi-

- deorum' labretensis, 'genus Cyprinodontoideorum' obesus.*  
 Illustrated recent otoliths: *Umbra krameri, Lebistes reticulatus, Umhra pygmaea.*
- Steurbaut, E., 1979b. Les otolithes de Téléostéens des Marnes de Saubrigues (Miocène d' Aquitaine méridionale, France). - *Palaeontographica, Abt. A* (166): 48 - 91, pl. 1 - 12.  
 New fossil species: 'Genus aff. *Lemkea*' *saubriguensis*, 'Genus aff. *Valenciennellus*' *kotthausi*, *Saurida rectilineata*, *Symbolophorus meridionalis*, *Diaphus cahuzaci*, *D. poignantae*, *Adioryx ostialis*, *Myripristis verus*, 'Genus aff. *Lepidotrigla*' *postdorsalis*, 'Genus *Triglidarum*' *parvulus*, *Neoscombrops flexuosus*, *Dentex (Polysteganus) nolfi*, *Bembrops vandeveldae*, 'Genus *Perciformorum*' *wheeleri*.  
 Illustrated recent otoliths: *Lemkea heterolinea*, *Promyllantor macroporis*, *Maurolicus muelleri*, *Vinciguerria poweria*, *V. lucetia*, *Symbolophorus veranyi*, *Diaphus debilis*, *Lobianchia dosleini*, *Bolinichthys supralateralis*, *Diaphus dumerili*, *Bolinichthys indicus*, *Diaphus metopoclampus*, *D. garmani*, *Gadiculus argenteus*, *Physiculus huloti*, *P. roseus*, *P. kaupi*, *P. argyropastus*, *P. rastrelliger*, *P. peregrinus*, *Leuresthes tenuis*, *Atherinopsis californiensis*, *Brotula barbata*, *Gephyroberyx darwini*, *Adioryx hastatus*, *Antigonia capros*, *Pristigenys niphonia*, *Parascombrops philippinensis*, *P. microlepis*, *Synagrops japonicus*, *Epigonus telescopus*, *Dactyloptena papilio*, *Pagellus coupei*, *Bembrops greyi*, *B. heterurus*, *Lesueurigobius saenzoi*, *L. friesii*, *Acentrogobius koumansi*, *Lepidopus caudatus*, *Hyperoglyphe japonicus*, *Paraplagusia japonica*.
- Steurbaut, E., in print. Deux nouveaux gisements à otolithes de Téléostéens, dont une espèce nouvelle, dans l' Aquitanien continental du Midi de la France. - *Géobios, short notes*.  
 New fossil species: 'Genus *Cyprinodontidarum*' *feistae*.
- Steurbaut, E. & J. Herman, 1978. Biostratigraphie et poissons fossiles de la formation de l' Argile de Boom (Oligocène Moyen du bassin belge). - *Géobios*, 11 (3): 297 - 325, 3 fig., pl. 1 - 3.  
 New fossil species: 'Genus *Gadidarum*' *ensiformis*.  
 Illustrated recent otolith: *Trisopterus luscus*.
- Stinton, F. C., 1968. On the study of Tertiary fish otoliths. - *Mém. B.R.G.M.*, 58: 153 - 162, 1 pl.  
 Illustrated recent otoliths: *Esox lucius*, *Pterothrissus gissu*, *Hilia* sp., *Netuma thalassina*, *Merluccius vulgaris*, *Trachichthodes affinis*, *Beryx decadactylus*, *Lutianus maltzani*, *Pelamys sarda*.
- Stinton, F. C., 1973. Fish otoliths from the English Cretaceous. - *Paleontology*, 16 (2): 293 - 305, 1 fig., pl. 31.  
 New fossil species: *Megalops bicrenulatus*, *Albula obesa*, *Osmerus lobatus*, *Sphaeronchus rotundus*.  
 Illustrated recent utriculiths: *Notopterus notopterus*, *Gaterin gaterinus*, *Essox lucius*.
- Stinton, F. C., 1975. Fish otoliths from the English Eocene, I. *Palaeontogr. Soc. [Monogr.]*: 1 - 56, 12 fig., pl. 1 - 3.  
 New fossil species: *Albula raphaelion*, *A. hantoniensis*, *A. marginalis*, *A. incurvata*, *Pterothrissus protensus*, *P. cristatus*, *P. leiodus*, *Anguilla annosa*, *Muraena prima*, *Moringua explicata*, *Nettastoma crenulatum*, *Conger productus*, *C. extensus*, *Astroconger crassus*, *A. ellipticus*, *Paraconger calvus*, *Lemkea glabra*, *L. aftonensis*, *Promyllantor impletus*, *P. fastigatus*, *P. guttatus*, *P. similis*, *Gnathophis obesus*, *Uroconger incisurus*, *U. emarginatus*, *Echelus contractus*, *E. crenulatus*, *Ophichthus sphaeroides*, *Myrichthys brevis*.  
 Illustrated recent otoliths: *Dinoperca petersi*, *Gaterin picus*, *Centropyge heraldi*, *C. flavissimus*, *C. nox*, *C. bispinosus*, *C. bicolor*, *C. multispinis*, *C. argii*, *C. tibicen*, *C. vrolikii*, *Elops saurus*, *E. affinis*, *E. hawaiiensis*, *Megalops ciprinoides*, *Albula vulpes*, *Lepisosteus osseus*, *Pterothrissus gissu*, *P. bellucci*, *Anguilla vulgaris*, *Muraena helena*, *Moringua hawaiensis*, *Gymnothorax rueppelli*, *Muraenesox cymbium*, *Nettastoma melanura*, *Astroconger myriaster*, *Muraenesox talabon*, *Conger conger*, *C. acutus*, *Paraconger notialis*, *Lemkea heterolinea*, *Promyllantor macroporis*, *Gnathophis mystax*, *Uroconger lepturus*, *U. validus*, *Echelus vulgaris*, *Ophichthus zophochir*, *O. roseus*, *Myrichthys maculosus*.
- Stinton, F. C., 1977a. Fish otoliths from the English Eocene, II. *Palaeontogr. Soc. [Monogr.]*: 57 - 126, 12 fig., pl. 4 - 8.  
 New fossil species: *Chirocentrus exilis*, *Stolephorus productus*, *S. furculus*, *Alosa incisa*, *Pomolobus circularis*, *Harengula similis*, *H. regularis*, *Sardinella spatiosa*, *S. extensa*, *Opisthonema collatum*, *Dussumieri amussa*, *Etrumeus undatus*, *Heterotis acutangulus*, *Chanos compressus*, *Palaeosox densus*, *Umbra valida*, *Alepocephalus novus*, *Osmerus sculptus*, *O. delicatulus*, *O. colvelliensis*, *Ichthyococcus subregularis*, *Aulopus sinuosus*, *Chlorophthalmus elongatus*, *Synodus bipectus*, *Saurida tenuis*, *Polymixia? rhomboidalis*, *P. serta*, *Merluccius nodosus*, *M. apicalis*, *Gadus varians*, *Raniceps elegans*, *Lepidion tuberculatum*, *Trachyrincus minusculus*, *Coelorinchus triquetrus*, *Hymenocephalus fimbriatus*, *Dinematichthys brevisulcus*, *Ogilbia centrota*, *Neohyphites constrictus*,

*Dermatopsis astrictus*, *Neobythites angustus*, *N. scabrosus*, *N. laevis*, *Monomitopus costatus*, *Oligopus gibbosus*, *O. bulbiformis*, *Sirembo convexus*, *Hoplobrotula panda*, *H. undulata*, *H. spissa*, *Xiphurus nodosus*, *Encheliophis triangularis*.

Illustrated recent otoliths: *Chirocentrus dorah*, *Setipinna taty*, *Stolephorus commersonii*, *Alosa alosa*, *Pomolobus pseudoharengus*, *Clupea harengus*, *Harengula pensacola*, *Sardinella eba*, *Opisthonema oglinum*, *Dussumieri* *acuta*, *Etrumeus micropus*, *Dorosoma chacunda*, *Heterotis niloticus*, *Chanos chanos*, *Tachysurus thalassinus*, *Galeichthys felis*, *Umbra limi*, *Argentina silur*, *Alepocephalus tenebrosus*, *Osmerus eperlanus*, *Hypomesus pretiosus*, *Ichthyococcus irregularis*, *Aulopus filamentosus*, *Synodus foetens*, *Saurida tumbil*, *Chlorophthalmus agassizii*, *Polymixia nobilis*, *Merluccius vulgaris*, *Gadus morhua*, *Microgadus proximus*, *Trisopterus luscus*, *Molva vulgaris*, *Raniceps raninus*, *Bregmaceros atripinnis*, *Lepidion eques*, *Trachyrincus trachyrincus*, *Coelorinchus coelorrhinchus*, *Hymenocephalus italicus*, *Dinematichthys iluocoeteoides*, *Ogilbia cayorum*, *Brosmophycis marginatus*, *Dermatopsis macrodon*, *Neobythites sivicolus*, *Monomitopus metriostoma*, *Selachophidium guentheri*, *Dicrolene introniger*, *Oligopus robustus*, *Brotula multibarbata*, *Sirembo imberbis*, *Hoplobrotula armata*, *Lepophidium cervinum*, *Xiphurus capensis*, *Encheliophis gracilis*.

Stinton, F. C., 1977b. Teleost otoliths from the Harefield Beds (Paleocene: Oldhaven Formation) at Bignell's Corner, Herts. - Tertiary Res., 1 (4): 119 - 125, 1 pl.

New fossil species: *Anguilla pectinata*, *Hoplobrotula protensa*.

Stinton, F. C., 1978. Fish otoliths from the English Eocene, III. - Palaeontogr. Soc. [Monogr.]: 127 - 189, pl. 9 - 12.

New fossil species: *Lophius papilliferus*, *Antennarius excavatus*, *A. validus*, *A. curvatus*, *A. hamatus*, *A. falcatus*, *Ogocephalus cirrhosus*, *O. glyptosus*, *Chaunax semiangulatus*, *Hemiramphus ovalis*, *H. subcircularis*, *H. mosaiacus*, *Pranesus densus*, *Trachichthys abditus*, *Hoplostethus densus*, *Paratrachichthys angulatus*, *P. cirratus*, *Gephyroberyx hexagonalis*, *Centroberyx rotundus*, *C. elegans*, *C. crenulatus*, *Monocentris cristata*, *Beryx nova*, *Holocentrus extenuatus*, *Myripristes sinuatus*, *M. depressus*, *Capros exiguus*, *C. incisus*, *Chana antiqua*, *Scorpaena regularis*, *Sebastodes perangustus*, *Scorpaenodes recurvus*, *Notesthes flexuosus*, *Paracentropogon annectens*, *Minous excavatus*, *M. carinatus*, *Prionotus contiguus*, *P. tortuosus*, *Trigla? gibbosa*, *Lepidotrigla selsiensis*, *Chelidonichthys curvatus*, *Peristedion prominens*, *Podothecus costulatus*, *Dactyloptena crenata*, *D. orbicularis*, *D. lobata*, *Centropomus annectens*, *Lates delicatulus*, *Chanda rhomboides*, *C. ovalis*, *C. fimbriata*, *C. convexa*, *C. pentagonalis*, *C. lobata*, *C. turgida*, *Dapalis vectensis*, *Morone crassa*, *Centrogenys ornatus*, *Epinephelus nodosus*, *E. constrictus*, *E. plicatus*, *E. exacutus*.

Stinton, F. C. & D. Kissling, 1968. Quelques otolithes de téléostéens de la Molasse oligocène de Suisse occidentale. - C.R. des Séances, S.P.H.N. Genève (N.S.), 3 (3): 140 - 154, 4 fig., 1 pl.

New fossil species: *Cyprinodon subtrigonus*, *C. dentifer*, *Dapalis carinatus*, *D. rhomboidalis*, *Gobius sectus*, *Lepidogobius bifidus*.

Stinton, F. C. & H. S. Torrens, 1968. Fish otoliths from the Bathonian of southern England. - Paleontology, 11 (2): 246 - 258, 14 fig.

New fossil species: *Gyrosteus subdeltaoides*, *Sphaeronchus dorsetensis*, *S. circularis*, *Pholidophorus paradoxicus*, *P. prae-elops*, *Leptolepis tenuirostris*, *L. densus*, *L. roddenensis*, *Archengraulis productus*, *Cleidogonia antiqua*.

Sulak, K. J., 1977. Aldrovandia oleosa, a new species of the Halosauridae, with observations on several other species of the family. - Copeia, 1: 11 - 20, 8 fig.

Illustrated recent otoliths: *Aldrovandia oleosa*, *A. phalacra*.

Takahashi, M., 1976. Some Miocene fish otoliths from the Mizunami Group, Central Japan. - Bull. Mizunami Foss. Mus., 3: 55 - 72, pl. 16 - 22.

Takahashi, M., 1977. Some Pliocene fish otoliths from the Dainichi Sands, Kakegawa Group, Central Japan. - Bull. Mizunami Foss. Mus., 4: 97 - 118, pl. 23 - 29.

Takai, T., 1959. Studies on the morphology, ecology and culture of the important apodal fishes, *Muraenesox cinereus* (Forskal) and *Conger myriaster* (Brevoort). - Contr. Shimonoseki College Fish., 285: 8 - 340, 153 fig., 14 pl.

Illustrated recent otoliths: *O. leptognathus*, *Muraenesox cinereus*, *M. yamaguchiensis*, *Anago anago*, *Alloconger anagooides*, *A. shiroanago shiroanago*, *Congriscus megastomus*, *Conger myriaster*, *Conger japonicus*, *Rhyncho-*

- cymba nystromi nystromi, Rhynchocymba nystromi ginanago, Rhynchoconger ectenura, Promyllantor nezumi, Japonoconger sivicola, Congrina retroinecta, Uroconger lepturus.*
- Taverne, L., 1968. Ostéologie du genre *Gnathonemus* Gill sensu stricto [Gnathonemus petersii (Gthr) et espèces voisines] (Pisces Mormyiformes). - Ann. Mus. r. Afrique Cent., (sér. in-8°), (Sci. Zool.), 170: 1 - 91, 44 fig., pl. 1 - 4.  
 Illustrated recent otolith: *Gnathonemus petersii*.
- Taverne, L., 1969. Etude ostéologique des genres *Boulengeromyrus* Taverne et Géry, *Genyomyrus* Boulenger, *Petrocephalus marcusen* (Pisces Mormyiformes). - Ann. Mus. r. Afrique Cent., (sér. in-8°), (Sci. Zool.), 174: 1 - 85, 46 fig., pl. 1 - 2.  
 Illustrated recent otoliths: *Petrocephalus bane*, *Genyomyrus donnyi*, *Boulengeromyrus knoepffleri*.
- Taverne, 1971. Ostéologie des genres *Marcusenius* Gill, *Hippopotamyrus* Pappenheim, *Cyphomyrus* Myers, *Pollimyrus* Taverne et *Brienomyrus* Taverne (Pisces Mormyiformes). - Ann. Mus. r. Afrique Cent., (sér. in-8°), (Sci. Zool.), 188: 1 - 144, 80 fig., pl. 1 - 3.  
 Illustrated recent otoliths: *Cyphomyrus psittacus*, *Marcusenius cyprinoides*.
- Taverne, L., 1972. Ostéologie des genres *Mormyrus* Linné, *Mormyrops* Müller, *Hyperopisus* Gill, *Isichthys* Gill, *Myomyrus* Boulenger, *Stomatorhinus* Boulenger et *Gymnarchus* Cuvier. Considérations générales sur la systématique des poissons de l'ordre des Mormyiformes. - Ann. Mus. r. Afrique Cent., (sér. in-8°), (Sci. Zool.), 200: 1 - 194, 116 fig., pl. 1 - 2.  
 Illustrated recent otoliths: *Gymnarchus niloticus*, *Stomatorhinus puncticulatus*, *Myomyrus macrops*, *Isichthys henryi*, *Hyperopisus occidentalis tenuicauda*, *Mormyrops deliciosus*, *Mormyrus rume*.
- Taverne, L., 1974. L'ostéologie d'*Elops* Linné, C., 1766 (Pisces Elopiformes) et son intérêt phylogénétique. - Acad. r. Belg., Mém. Cl. Sci. Collect. in-8°, (sér. 2), 41 (2): 5 - 98, 40 fig., 1 pl.  
 Illustrated recent otolith: *Elops lacerta*.
- Taverne, L., 1974. Sur la sagitta des Mormyridae (Pisces Osteoglossomorphes). - Rev. Zool. afr., 88 (2): 281 - 285, 2 fig.  
 Illustrated recent otoliths: *Marcusenius macrolepidotus*, *Campylomormyrus tamandua*, *Petrocephalus bane*, *Pantodon buchholzi*.
- Taverne, L., 1975. A propos de trois Téléostéens fossiles déterminés erronément comme Osteoglossides, Cearana Jordan, D. S. et Branner, J. C., 1908, *Eurychis* Jordan, D. S., 1924 et Genartina Frizzell, D. L. et Dante, J. H., 1965. - Ann. Soc. r. Zool. Belg., 105 (1-2): 15 - 30, 8 fig.
- Taverne, L., 1977. Ostéologie, phylogénese et systématique des Téléostéens fossiles et actuels du super-ordre des Osteoglossomorphes. Première partie. Ostéologie des genres *Hiodon*, *Eohiodon*, *Lycoptera*, *Osteoglossum*, *Scleropages*, *Heterotis* et *Arapaima*. - Acad. r. Belg., Mém. Cl. Sci., Collect. in-8°, (sér. 2), 42 (3): 5 - 235, 146 fig.  
 Illustrated recent otoliths: *Arapaima gigas*, *Heterotis niloticus*, *Scleropages formosus*, *Osteoglossum bicirrhosum*, *Hiodon alosoides*.
- Taverne, L., 1978. Ostéologie, phylogénese et systématique des Téléostéens fossiles et actuels du super-ordre des Osteoglossomorphes. Deuxième partie. Ostéologie des genres *Phareodus*, *Phareoides*, *Brychaetus*, *Musperia*, *Pantodon*, *Singida*, *Notopterus*, *Xenomystus* et *Papyrocranus*. - Acad. r. Belg., Mém. Cl. Sci., Collect. in-8°, (sér. 2), 42 (6): 4 - 213.  
 Illustrated recent otoliths: *Papyrocranus afer*, *Xenomystus nigri*, *Notopterus notopterus*, *Pantodon buchholzi*.
- Tilak, J., 1963. Studies on the comparative morphology of the otoliths of Indian siluroids. - Geol. Anz., 173 (3): 181 - 201.
- Trewavas, E., 1977. The sciaenid fishes (Croakers or Drums) of the Indo-West-Pacific. - Trans. zool. Soc. Lond. (1977), 33: 259 - 541, 61 fig., pl. 1 - 14.  
 Illustrated recent otoliths: *Bahaba chaptis*, *Umbrina canariensis*, *Kathala axillaris*, *Otolithoides poma*, *O. biauritus*, *Panna microdon*, *Boesemania microlepis*, *Pennahia macrophthalmus*, *Argyrosomus hololepidotus*, *A. amoyensis*, *Pterotolithus maculatus*, *P. lateoides*, *Otolithes ruber*, *Chrysichthys aureus*, *Daysciaena albida*, *Austronibea oedogenys*, *Paranibea semiluctuosa*, *Nibea maculata*, *N. semifasciata*, *N. soldado*, *Sonorolux fluminis*, *Johnius coitor*, *Sciaena umbra*, *Macrospinosa cuja*, *Bahaba taipingensis*, *Pennahia macrocephalus*, *P. pawak*, *P. argentata*, *Megalonibea fusca*, *Argyrosomus japonicus*, *A. miuy*, *Atrobucca nibe*, *A. trewavasae*, *Afroscion thor-*

- pei*, *Protonibea diacanthus*, *Dendrophysa russelli*, *Nibea albiflora*, *Larimichthys crocea*, *L. polyactis*, *Collichthys lucidus*, *C. niveatus*, *Johnius coitor*, *Atractoscion aequidens*, *Pseudotolithus brachygnathus*, *P. senegalensis*, *P. (Pinnacorvina) epiperca*, *P. (Hostia) moorii*, *P. (Fonticulus) elongatus*, *Miracorvina angolensis*, *P. (P.) senegalensis*, *Pteroscion peli*.
- Voigt, E., 1928. Ueber einen Gadidenotolithen und einige andere unbeachtete Fossilien aus der Schreibkreide von Rügen. - Cbl. Mineral. Geol. Paläont., B (6): 377 - 381, 4 fig.  
New fossil species: *Otolithus (Gadidarum) rugiae*.
- Weiler, W., 1929. Prolebias praecursor n. sp. aus den Süßwasserschichten des Cyrenenmergels im Mainzer Becken. - Notizbl. Ver. Erdkd. u. Hess. Geol. L.A. (5-F.), 12: 110 - 111, pl. 6.
- Weiler, W., 1968. Die Otolithen der bathypelagischen Familie Melamphaidae und ihre systematische Bedeutung (Pisces). - Senckenbergiana biol., 49 (3/4): 223 - 230, 7 fig.  
Illustrated recent otoliths: *Scopeloheryx robustus*, *Poromitra crassiceps*, *Sio nordenskjöldii*, *Scopelogadus* sp., *Melamphaes lugubris*, *Scopelogadus mizolepis bispinosus*, *Melamphaes acanthomus*.
- Weiler, W., 1968. Otolithi Piscium (Neubearbeitung). - Fossilium Catalogus, I. Animalia, 117: 1 - 196.
- Weiler, W., 1969. Fisch-Otolithen aus der Unter-Kreide der Umgebung von Hannover und aus dem Unter-Eozän von Fehmarn. - Senckenb. Lethaea, 50 (4): 357 - 366, 8 fig.
- Weiler, W., 1971a. Palealbula ventralis n. sp. (Pisces, Clupeiformes) aus dem Neocom (Unter-Hauterive) von Engelbostel bei Hannover. - Senckenb. Lethaea, 52 (1): 1 - 3, 3 fig.  
New fossil species: *Palealbula ventralis*.
- Weiler, W., 1971b. Fisch-Otolithen aus dem Jungtertiär Süd-Siziliens. - Senckenb. Lethaea, 52 (1): 5 - 37, pl. 1 - 2.  
New fossil species: *Diaphus praeafinesquii*, *Carapus praeimberbis*, *Neoscombrops praeannectens*.  
Illustrated recent otoliths: *Hygophum benoiti*, *Ceratoscopelus townsendi*, *C. maderensis*, *Diaphus rafinesquii*, *Electrona carlsbergi*, *E. crockeri*, *E. rissoii*, *E. subaspera*, *Hygophum atratum*, *H. hygomi*, *Benthosema panamense*, *B. glaciale*, *Lampanyctus crocodilus*, *Neoscombrops annectens*.
- Weiler, W., 1972a. Fische. In: F. Doebl, H. Mawahed-Awal, P. Rothe, V. Sonne, H. Tobien, H. Weiler & W. Weiler, 1972. Ein 'Aquitian'-Profil von Mainz-Weisenau (Tertiär, Mainzer Becken). Mikrofaunistische, sedimentpetrographische und geochemische Untersuchungen zu einer Gliederung. - Geol. Jb., A5: 75 - 81, pl. 15.  
New fossil species: *Morone brevis*.  
Illustrated recent otoliths: *Argentina sphyraena*, *A. sp.*, *A. silus*, *A. striata*, *A. sialis*, *Glossanodon semifasciatus*.
- Weiler, W., 1972b. Fisch-Otolithen aus der unteren Kreide Niedersachsens. - Ber. Naturhist. Ges., 116: 71 - 79, 5 fig.  
New fossil species: *Palealbula gracilis*, *Otolithus* (inc. sed.) *rostratus*, *O.* (inc. sed.) *pockrandti*.
- Weiler, W., 1973. Erster Nachweis von Otolithen der Familie Umbridae (Pisces) im Tertiär des Mainzer Beckens, mit Bemerkungen über die phyletischen Beziehungen innerhalb der Unterordnung Esocoidei. - Senckenb. Lethaea, 5 (6): 455 - 467, 14 fig.  
New fossil species: *Paleumbra moguntina*, *P.?* *acutirostris*.  
Illustrated recent otoliths: *Umbra krameri*, *U. limi*, *Novumbra hubbsi*.
- Weinfurther, E., 1967. Die miozäne Otolithenfauna von St. Veit an der Triesting, NO. - Ann. Naturhistor. Mus. Wien, 71: 381 - 393, pl. 1 - 2.  
New fossil species: *?Smerdis kühni*.
- Weitzman, S. H., 1954. The osteology and the relationships of the South American Characid fishes of the subfamily Gasteropelecinae. - Stanford Ichth. Bull., 4 (4): 213 - 263, 18 fig.  
Illustrated recent otolith: *Carnegiella vesca*.
- Weitzman, S. H., 1962. The osteology of *Brycon meeki*, a generalized Characid fish, with an osteological definition of the family. - Stanford Ichth. Bull., 8 (1): 3 - 77, 21 fig.  
Illustrated recent otolith: *Brycon meeki*.
- Weitzman, S. H., 1967b. The osteology and relationships of the Astronesthidae, a family of oceanic fishes. - Dana Rep., (71): 1 - 54, 31 fig.

- Illustrated recent otolith: *Astronesthes niger*.  
 Weitzman, S. H., 1974. Osteology and evolutionary relationships of the Sternoptychidae, with a new classification of Stomatoid families. - Bull. amer. Mus. nat. Hist., 153 (3): 331 - 478, 113 fig.  
 Illustrated recent otoliths: *Spirinchus thaleichthys*, *Vinciguerria lucetia*, *Polymetme corythaeola*, *Thorophos nexilis*, *Maurolicus muelleri*, *Danaphos oculatus*, *Valencienellus tripunctulatus*, *Argyriprinus* sp., *A. atlanticus*, *Sonoda megalophthalma*, *Polyipnus asterooides*, *P. aquavitus*, *Ichthyococcus irregularis*, *Argyropelecus aculeatus*, *A. affinis*, *Sternopyx diaphana*.  
 Wigley, R. L. & F. C. Stinton, 1973. Distribution of macroscopic remains of recent animals from marine sediments off Massachusetts. - Fishery Bull., 71 (1): 1 - 40, 26 fig.

## ADDENDUM

- Darteville, E. & E. Casier, 1959. Les poissons fossiles du Bas-Congo et du régions voisines (Troisième partie). - Ann. k. mus. Belg. Congo, (3) 2 (3): 257 - 568, pl. 23 - 39.  
 New fossil species: *Otolithus (Merlucciidarum) signeuxae*.  
 McCosker, J. E., 1977. The osteology, classification, and relationships of the eel family Ophichthidae. - Proc. Calif. Acad. Sci., Ser. 4, 41 (1): 1 - 123, 45 fig.  
 Illustrated recent otoliths: *Ophichthus triserialis*, *O. zophochir*, *Ophisurus serpens*, *Echiophis intertinctus*, *Ethadophis merenda*, *Myrichthys xystrurus*, *Echelus pachyrhynchus*, *Aplathophis chauliodus*, *Myrophis vafer*.  
 Pomerol, C., 1973. Stratigraphie et paléogéographie. Ere cénozoïque (Tertiaire et Quaternaire). Paris (Doin), 269 pp.  
 In this general treatise, Pomerol figured 8 photographies of otoliths from the collection Stinton, on page 122.  
 Among them, *Lactarius amplus* (fig. 4.11.8) is new. Authorship of this species belongs to Pomerol, as stated by Stinton (1978, p. 181).  
 Schwarzhans, W. & W. Weiler, 1971. Ein ungewöhnlicher Fund von Otolithen 'in situ' aus dem mitteloligozänen Meeressand des Mainzer Beckens. - Senckenb. Lethaea, 52 (5/6): 529 - 535, 5 fig.  
 New fossil species: *Trigla hemmoorensis*.  
 Illustrated recent otoliths: *Pterygotrigla polyommata*, *Prionotus carolinus*.  
 Stinton, F. C. & D. Nolf, 1970. A Teleost otolith fauna from the Sands of Lede, Belgium. - Bull. Soc. belge Géol., Paléont., Hydrol., 78 (3-4): 219 - 234, 1 pl.  
 New fossil species: *Anguilla rectangularis*, *Gymnothorax diagonalis*, *Moringua fissura*, *Lepophidium aequalis*, *Hoplobrotula lerichei*, *Antigonia angusta*, *Platycephalus aculeatus*, *Apogon arambourgi*, *Ambassis electilis*, *Serranus (Serranellus) delicatulus*, *Centropristes exsculptus*, *Lagodon pectinoides*, *Oblada joneti*.

N.B. The new fossil species mentioned in the addendum have already been incorporated in the alphabetical list.

## ALPHABETICAL LIST OF FOSSIL NOMINAL SPECIES DESCRIBED SINCE 1968

All species are arranged in alphabetical order of generic names, disregarding the possible prefix 'Otolithus' or 'genus'. The spelling is the same as in the original publication. It is stressed that insertion in this list does not mean that the authors regard a name as valid or correct.

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|--|--|
| <i>Acropomidarum martini</i> Gaemers & Hinsbergh, 1978 | <i>Alhula hantoniensis</i> Stinton, 1975 |
| <i>Adioryx ostialis</i> Steurbaut, 1979b               | <i>Albula incurvata</i> Stinton, 1975    |

- Albula marginalis* Stinton, 1975  
*Albula obesa* Stinton, 1973  
*Albula rhaphiodon* Stinton, 1975  
*Alepocephalus novus* Stinton, 1977a  
*Alosa incisa* Stinton, 1977a  
*Ambassis electilis* Stinton & Nolf, 1970  
*Ammodytes lanceolatus sculptus* Gaemers & Schwarzhans, 1973  
*Ammodytes rostratus* Gaemers & Schwarzhans, 1973  
*Ammodytes vascuri* Nolf & Lapierre, 1977  
*Anguilla annosa* Stinton, 1975  
*Anguilla pectinata* Stinton, 1977b  
*Anguilla rectangularis* Stinton & Nolf, 1970  
*Anguilla rouxi* Nolf, 1974  
*Antennarius curvatus* Stinton, 1978  
*Antennarius excavatus* Stinton, 1978  
*Antennarius falcatus* Stinton, 1978  
*Antennarius hamatus* Stinton, 1978  
*Antennarius validus* Stinton, 1978  
*Antigonia angusta* Stinton & Nolf, 1970  
*Antigonia postangusta* Holec, 1975b  
*Aphanius (Aphanius) chios* Malz, 1978c  
*Aphanius moraviae* Brzobohaty, 1969  
*Apogon arambourgi* Stinton & Nolf, 1970  
*Apogonidarum ventrolobatus* Schwarzhans, 1973  
*Archengraulis productus* Stinton & Torrens, 1968  
*Archylopecus weinfurteri* Brzobohaty & Schultz, 1978  
*Ariosoma coheni* Nolf & Martinell, in press  
*Arnoglossus inconspectus* Smigelska, 1973  
*Astroconger crassus* Stinton, 1975  
*Astroconger ellipticus* Stinton, 1975  
*Atherina margereli* Nolf & Lapierre, 1977  
*Aulopus sinuosus* Stinton, 1977a  
  
*Bathycongrus twistringenensis* Schwarzhans, 1976  
*Bauzaia ornatissima* Robba, 1970  
*Bauzaia tuberosa* Robba, 1970  
*Bembrops vandeveldae* Steurbaut, 1979b  
*Beryx nova* Stinton, 1978  
‘genus *Blenniidarum*’ *blondeau* Nolf & Lapierre, 1979  
*Benthosema fitchi* Brzobohaty & Schultz, 1978  
*Bonapartia spina* Heinrich, 1969  
‘genus *Bothidarum*’ *biaculeatus* Nolf & Lapierre, 1979  
*Bothidarum rhomboides* Schwarzhans, 1973  
*Bothidarum weileri* Schwarzhans, 1974  
?*Bothus semen* Nolf, 1973a  
*Bregmaceros oblongus* Schwarzhans, 1977  
*Brosme heinrichi* Gaemers, 1976b  
*Brosme tejkali* Brzobohaty & Schultz, 1978  
‘genus aff. *Brosmophycis*’ *brevis* Nolf, 1974  
  
*Brotulidarum cetonaensis* Schwarzhans, 1979  
*Brotulidarum phaseoloides* Gaemers & Hinsbergh, 1978  
  
?*Caesio concavissimus* Nolf, 1973c  
*Callionymus lerenardi* Nolf & Lapierre, 1979  
*Callionymus schuermannii* Schwarzhans, 1973  
‘genus *Caproidarum*’ *sonodae* Nolf & Lapierre, 1979  
*Capros exiguus* Stinton, 1978  
*Capros incisus* Stinton, 1978  
*Carangidarum robustus* Gaemers & Hinsberg, 1978  
*Carapus nuntius elongatus* Gaemers & Schwarzhans, 1973  
  
*Carapus praemiberbis* Weiler, 1971b  
*Centroberyx crenulatus* Stinton, 1978  
*Centroberyx elegans* Stinton, 1978  
*Centroberyx rotundus* Stinton, 1978  
*Centrogenys ornatus* Stinton, 1978  
*Centropomus annectens* Stinton, 1978  
*Centropristes exsculptus* Stinton & Nolf, 1971b  
  
?*Centropyge kotthausi* Nolf, 1973c  
*Cepola massiva* Nolf & Lapierre, 1979  
*Chana antiqua* Stinton, 1978  
*Chanda bohlkei* Nolf & Cappetta, 1976  
*Chanda convexa* Stinton, 1978  
*Chanda fimбриата* Stinton, 1978  
*Chanda lohata* Stinton, 1978  
*Chanda ovalis* Stinton, 1978  
*Chanda pentagonalis* Stinton, 1978  
*Chanda rhomboides* Stinton, 1978  
*Chanda turgida* Stinton, 1978  
‘genus *Chandidarum*’ *inflatus* Nolf & Lapierre, 1979  
‘genus *Chandidarum*’ *steurbauti* Nolf & Lapierre, 1979  
*Chanos compressus* Stinton, 1977a  
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*Chlorophthalmus elongatus* Stinton, 1977a  
*Citharopsettodes angustus* Schwarzhans, 1979  
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*Coelorinchus triquetrus* Stinton, 1977a  
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*Colliolus minutulus* Gaemers, 1978b  
*Colliolus parvus* Gaemers, 1976b  
*Colliolus schwarzhansi* Gaemers, 1976b

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*Conger ellipticus* Aoki, 1971  
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*Conger productus* Stinton, 1975  
*Congermuraena weileri* Jonet, 1972-73  
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*Corvina dobrogica* Pana, 1977  
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‘genus *Cyprinodontoideorum*’ *obesus* Steurbaut, 1979a
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*Dactyloptena lobata* Stinton, 1978  
*Dactyloptena orbicularis* Stinton, 1978  
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*Dapalis carinatus* Stinton & Kissling, 1968  
*Dapalis rhomboidalis* Stinton & Kissling, 1968  
*Dapalis vectensis* Stinton, 1978  
*Dentex kokeni* Gaemers & Hinsbergh, 1978  
*Dentex (Polysteganus) nolfi* Steurbaut, 1979b  
*Dermatopsis astrictus* Stinton, 1977a  
*Diaphus angulatus* Ohe & Araki, 1973  
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*Diaphus poignantae* Steurbaut, 1979b  
*Diaphus praeraefinesquii* Weiler, 1971b  
*Dinematicthys brevisulcus* Stinton, 1977a  
*Diplacanthopoma tortonesei* Nolf, 1977  
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*Echelus crenulatus* Stinton, 1975  
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*Epinephelus exacutus* Stinton, 1978  
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*Eicitharus lusitanicus* Jonet, 1972-73  
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*Gadus robustus* Robba, 1970  
*Gadus varians* Stinton, 1977a  
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*Gnathophis obesus* Stinton, 1975  
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*(Gobiidarium) modestus* Gaemers & Schwarzhans, 1973  
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*Gobius arenosus* Aoki, 1971  
*Gobius copiosus* Aoki, 1968  
*Gobius gibbosus* Pana, 1977  
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*Gobius sectus* Stinton & Kissling, 1968  
*Gobius truncatus* Schwarzhans, 1979  
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*Pseudorhombus helvecianus* Jonet, 1972-73  
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*Pterothrissus leiodus* Stinton, 1975  
*Pterothrissus protensus* Stinton, 1975
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*Raniceps elegans* Stinton, 1977a  
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*Sardinella spatiose* Stinton, 1977a  
*?Saurida indansi* Schwarzhans, 1977  
*Saurida rectilineata* Steurbaut, 1979b  
*Saurida tenuis* Stinton, 1977a  
*Sciaena moguntiniformis* Pana, 1977  
*Otolithus (Sciaenidarum) clarus* Aoki, 1971  
*Scombridarum bisculptatus* Schwarzhans, 1974  
*Scorpaena edegemensis* Gaemers, 1973  
*Scorpaena regularis* Stinton, 1978  
*Scorpaenodes recurvus* Stinton, 1978  
*Sebastes weileri* Gaemers, 1972  
*Sebastodes perangustus* Stinton, 1978  
*Otolithus (Serranidarum) anesakiensis* Aoki, 1971  
*Serranus delicatulus* Stinton & Nolf, 1970  
*Serranus krefeldensis* Schwarzhans, 1974  
*Sirembo convexus* Stinton, 1977a  
*Sirembo tumidus* Nolf, 1973c  
*?Smerodus kühni* Weinfurter, 1967  
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*Spicara kugleri* Nolf, 1977  
*Spicara arambourgi* Nolf, 1973a  
*Sphaeronchus circularis* Stinton & Torrens, 1968  
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*Stromateus brailloni* Nolf, 1975  
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*Synodus bisectus* Stinton, 1977a  
*Symbolophorus haereticus* Brzobohaty & Schultz, 1978  
*Symbolophorus meridionalis* Steurbaut, 1979b
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*Trachichthodes pattersoni* Nolf, 1975a  
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*Trachichthodes abditus* Stinton, 1978  
*Trachinus angustus* Gaemers & Hinsbergh, 1973  
*Trachinus gaemersi* Schwarzhans, 1973  
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*Trachyrincus minusculus* Stinton, 1977a  
*'genus Trichiuridarum' wongratanae* Nolf, 1977  
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*Trigla hemmoorensis* Schwarzhans & Weiler, 1971  
*'genus Triglidarum' giganteus* Nolf, 1977  
*'Genus Triglidarum' parvulus* Steurbaut, 1979b  
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*Trisopterus kasselensis* Schwarzhans, 1974  
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