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Department of Mollusks: Curator's Report 1890 - 1891

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U.S.G. JUL 7 1891

Report for 1890-91.

Report on the Department of Mollusks (including Cenozoic fossils) in the U.S. National Museum, 1891.

Department of Mollusks.

By William H. Dall, ~~Force~~ Honorary Curator.

The force of the Department of Mollusks during the past year, has, ~~comprised~~ ^{in addition to the honorary curator, Mr. William H. Dall} besides the Honorary Curator:

~~included~~ Dr. R. E. C. Stearns, U. S. Geol. Survey,

Adjunct Curator;

Mr. Chas. Torrey Simpson, Aid.;

Mr. S. Hazen Bond, Copyist; and

Miss A. C. Beard, Copyist.

The three last mentioned have comprised the paid force of the Department, while, as in previous years, by permission of the Director of the U. S. Geological Survey, ^{in addition to} beside the ~~Curator~~ ^{writer}, Dr. Stearns, Mr. Gilbert D.

Harris and Mr. Frank Burns of the U. S. Geological Survey have devoted more or less of their time to the work of the Department in connection with their Paleonto-

logical studies, with valuable results.

The writer ^{has} with the permission of the Director ^{of the Geological Survey} ~~has~~ continued to act as Honorary Curator.

Where all have been attentive, faithful and energetic it would be invidious to single out either of the paid members of the staff for greater commendation than others, but I may be permitted to recommend in accordance with the understanding at the time of his appointment that Mr. Simpson's salary be raised to \$100.⁰⁰ per month.

^{Excellent progress in the}
The routine work of the Department ^{has} ~~has~~ ^{been} made excellent ~~progress~~ during the ~~past~~ year. The number of registrations is about the same as that of last year; ~~the exact figures will be found in the Appendix;~~ but in other directions the progress made has been exceptional. The tops of the new cases

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as mem.
for Mr. Good
omit from
report.

on the ground-floor of the Smithsonian have been utilized by the placing of the Lea collection of Annioidae on exhibition, and the filling of the remaining tables with specimens suitable for public exhibition. The central upright portions still remain partly unoccupied, ~~since~~ ^{owing to} ~~the~~ ^{onerous} ~~duties~~ ^{putting} ~~of the staff and Curator~~ have been so onerous and ~~the~~ ^{delays} ~~caused by an unusual amount of sickness~~ ^{during the} ~~epidemic of the last winter~~ ^{caused} so much sickness that there has not been time to prepare and arrange a suitable display.

It is with great regret that I am obliged to note that the imperfect health of my coadjutor, Dr. Stearns, has obliged him to seek ^{a long} rest, with ~~six months~~ leave of absence. Dr. Stearns has been able to render services of a kind for which it is almost impossible to find another ^{who is} ~~equally~~ ^{equally} qualified person. ~~to render~~ ~~such~~ services of so great value.

His energy, devotion and knowledge have been of the ^{highest value} ~~greatest~~ usefulness to the Department of Mollusks, and his absence ^{very largely increases} ~~nearly~~ doubles the work of the Curator, ~~already sufficiently engrossing.~~

General operations.

The general operations of the Department ~~during the past year~~ as in previous years have comprised: (1) the determination, labelling, proper assorting and registration of specimens, old and new; and (2) ~~the~~ the preparation of special reports on Government collections made by other branches of the Executive Departments, such as the U.S. Fish Commission, the ^{U.S.} Navy, the Revenue Marine ^{Service}, ^{the} Agriculture Department ^{of Agriculture}, and ^{also by} special expeditions.

The number of registrations ^{shown in the table} as will be seen by referring to the appended table, ^{is} ~~amounts~~ ~~to~~ about the same ~~in point of numbers~~ as in previous years, ~~for some time past,~~

^{and}
 though I am glad to be able to state
 that we are visibly approaching a point
 when we shall be able to see the end of
 the ancient arrearages of which such
 a mass existed a few years ago. Once
 cleared away, the Department as at
 present constituted will be able to keep
 abreast of accessions with ordinary
 diligence ~~on most years~~, and to system-
 atize our duplicate material, ^{ascertain} recognize
^{the} ~~the~~ important gaps in our collection and
 take the necessary steps for filling them.
 Already our collection ranks among
 the most important in the world, and
 if two or three other collections surpass
 it in some respects, there is no ex-
 isting collection which it does not
 surpass ^{from other standpoints} ~~in many respects~~, especially
^{as regards} ~~the~~ the scientific data associated with
 the material it contains and the
 thorough system of registration & identifica-

tion applied to the specimens ~~collected~~.
 I think I may say that there is no
 collection affording greater facilities
 for the scientific ^{use} of the material
 it contains. Unfortunately our library
 is ~~lacking in~~ ^{is extremely deficient in} many of the most
 important works, ^{on conchology,} and several of
 those which we possess, for want of
 binding, are practically inaccessible.
 What the private library of the
 Curator very little could be done.
 Unfortunately ^{too} ~~many~~ many of the
~~conchological~~ recent works are inaccessible in
 any of the libraries of this city.

I may call attention here to the
 fact that many of the concho-
 logical publications of the Smith-
 sonian are practically out of print,
 and that every few days applications
 are made, in the vain hope of ob-
 taining them, by students in various

parts of the Country. It is to be hoped that some of them, such as the "Mollusks of Western North America," by Carpenter, and Tryon's "Strepomatidae," may be shortly ^{reprinted} ~~reissued~~ for the use of students.

~~An~~ ~~work~~ ~~of~~ ~~the~~ ~~second~~ ~~class~~ ~~A~~ ~~number~~ ~~of~~ ~~papers~~ ~~have~~ ~~been~~ ~~printed,~~ ~~and~~ ~~by~~ ~~Dr.~~ ~~Stearns,~~ ~~a~~ ~~list~~ ~~of~~ ~~which~~ ~~will~~ ~~be~~ ~~found~~ ~~in~~ ~~the~~ ~~Bibliography.~~ ~~hereto~~ ~~appended.~~ ~~The~~ ~~most~~ ~~important~~ ~~of~~ ~~these,~~ ~~perhaps,~~ ~~is~~ ~~Part~~ ~~I~~ ~~of~~ ~~the~~ ~~writer's~~ ~~report~~ ~~on~~ ~~the~~ ~~Tertiary~~ ~~Mollusks~~ ~~of~~ ~~Florida,~~ ~~issued~~ ~~in~~ ~~September~~ ~~1890,~~ ~~by~~ ~~the~~ ~~Wagner~~ ~~Free~~ ~~Institute~~ ~~of~~ ~~Science,~~ ~~Philadelphia,~~ ~~of~~ ~~which~~ ~~Part~~ ~~II~~ ~~is~~ ~~to~~ ~~follow~~ ~~at~~ ~~a~~ ~~convenient~~ ~~date.~~

A large part of the Curator's time ~~during~~ ~~the~~ ~~year~~ has been devoted to the preparation of a general report on the Neocene formations of the United States, for the U. S. Geological Survey. ^{This} ~~which~~ has

been completed and is now in the printer's hands. Dr. Stearns has devoted much time to an investigation of the Mollusks of the Galapagos Islands, ^{and} the manuscript of which, is nearly ready for ~~in a nearly complete state, has been made nearly ready for publication.~~

Accessions during the year.

The number of accessions during the past year ^{has been} was 79. ^{In 1889 '90 the number was forty six} against ~~46~~ for the year ^{1889 '90} previous. It will be observed that the number of accessions is nearly double that of last year, and I may add that the amount of material is also considerably greater, and more valuable.

~~Among~~ The more important accessions ^{are} included in the enumeration following ~~(may be enumerated).~~

G. A. Aldrich Esq. Blocton, Ala., sent a number of typically named specimens of Eocene tertiary fossils studied by Otto Meyer. Hon. Delos Arnold, of California, contributed

an interesting series of Pliocene and Pleistocene fossils of that state, chiefly from the southern coast.

~~Mr.~~ Mr. R. L. Bartleman, of the U. S. Legation at Caracas, ^{has presented} ~~we are indebted~~

~~to~~ some very interesting marine shells of that coast, including a beautiful series of the Argonaut from the youngest to the adult shell. ^R A collection less attractive but scientifically important, in the shape of his types of American slugs, in alcohol, completing the typical Binney collection of the Museum, was presented by Mr. W. G. Binney. ^R From the British Museum a series of 31 species collected by the "Challenger" expedition were received including several rarities.

^R. A few interesting Arctic species from the Kara Sea were contributed by the Royal Zoological Museum of Copenhagen.

^R. From Mr. Hugh Fulton of London a

number of extremely rare African and other shells were purchased or obtained by exchange. These were forms needed to complete the series, and which there was no reasonable prospect of obtaining except by purchase. A remarkably fine series of Tritonium femorale from the Bahamas was obtained from Mr. ^IGregor, who has also donated a number of interesting shells from various localities. ^RDr. A. von Spering of Rio Grande do Sul, Brazil, sent a number of South American marine and fresh water shells from that region, several of which were new to the collection, and nearly all from localities not represented in our series.

^RDr. Robt. T. Jackson of Boston contributed a series of young stages of oysters and other bivalve shells, illustrative of his recent memoir on the Phylogeny of the Pelecypoda.

11.

Messrs Elliott and Palmer

P. ~~Mr. Wm. Palmer of the Museum~~ collected while at St. Paul Island, Bering Sea, a very interesting series of shells and Miocene fossils. P. From Miss Ida Shepard and Mrs. M. Burton Williamson of Sta. Barbara Co., Cal. various interesting Californian species were received on several occasions.

P. Mr. Frederick Stearns of Detroit, Mich. sent for exchange the first series of duplicates of his very interesting and valuable collection recently made in Japan. P. From the U. S. Department of Agriculture, through Dr. C. Hart Merriam in charge of the Division of Economic Ornithology, a number of small lots of landshells and freshwater shells, collected by the agents of the Department in Arizona and other parts of the South-western United States, ^{were received} ~~came to hand~~. These contained

18

several novelties which have been described by Dr. R. O. C. Stearns.

P. From the U. S. Fish Commission a collection made by the schooner Grampus on the Labrador coast and various collections from the Western Am. Coast, dredged by the Albatross, were received. ~~Lastly~~ ^{sent} from P. Mr. Joseph Willcox ~~sent~~ ^{contributed} several boxes of Pliocene and other fossils chiefly from Florida. ^{These} and contain ~~ing~~ ^{what is} much of interesting.

Routine work of the year.

The routine work of the past year has not differed greatly from that of the preceding year. It has been marked by the completion of the work on the Lea Collection, which is now entirely registered and the *Naides* placed ~~in~~ ^{on} exhibition in the new cases; while the duplicates (of which there were many boxes) are being arranged for easy access by

Mr. Simpson with a view to future exchanges.

A large amount of work on fossiliferous marl and gravel, yielding many hundreds of specimens, has been ^{accomplished} ~~done~~ by Miss Beard and Mr. Burns during the year.

The work of answering queries on various subjects connected with mollusks and assisting students in different parts of the country to direct their studies and to identify their local faunæ has always been regarded as important and was particularly referred to in the Report of the Curator for 1889-90. About seventy eight individuals were included in the list of those thus communicated with during that year, which was nearly double the number of the year preceding. During the year 1890-91 to which the present report refers, ~~the list appended shows~~ the number of ^{correspondents} recipients ^{has been} ~~to be~~ no less

than one hundred and sixty six, the correspondence including over three hundred letters and six or seven hundred pages of manuscript besides the identification, or noting, of not less than 1200 species of Mollusks. This work has been performed by the Curator, assisted by Dr. Stearns and Mr. Simpson, without the advantage of a stenographer or type-writer. It is obvious that if the work continues to increase in like ratio, additional facilities will be required.

Special Researches.

The ~~accompanying~~ bibliographical notices, (See Section ~~VI~~) appendix will indicate the direction of the researches carried on by the Staff during the year. Most of the Curator's time has necessarily been devoted to a review of the state of our knowledge of the later Tertiary of the United States. ^{Ship} ~~which~~ has been completed and.

under the
names, Dall,
Simpson and
Stearns

is in the printer's hands, but will not ^{be included} appear ^{in the Bibliography accompanying this volume} in the ~~Webb's~~ ^{Webb's} Bibliography.

Dr. Stearns has continued his work on the shells of the Galapagos and of the western coast of South America, chiefly from the Albatross voyage, but his ill health has prevented the completion of the work.

Mr. Simpson continues to devote much of his leisure to a study of the Florida Amos aided by ^{the types of the Lea collection} material derived from various sources.

Condition State of the Collection.

In previous reports ~~it has been~~ ^{it has been} explained why it is not yet possible to give the exact number of species, specimens, duplicates etc. contained in the ^{pr}Collection under my charge.

In my last report it was estimated that the collection contained about 471,500 specimens, of which one-fourth

are preserved in alcohol. About 5000 specimens are estimated to have been received during the year which would make a present total of about 476,500 specimens.

The number of entries in the registers for 1889-90 was 6,569. For the present year it amounts to 5764, equivalent to about 17292 specimens.

The total number of registrations to date, deducting all duplicates or omissions, is 100,667 representing 302,000 specimens.

The number of workers and their distribution in different parts of the building, requires the use of several volumes of the register simultaneously, ~~which~~ ^{this will explain} ~~explains~~ why the following table is necessary to show the total registrations for the entire year. The formal registration (with the

gaps alluded to) terminates, June 30,
1891, with number 122524,

Volume	From	To	Total.	Remarks.
XVIII	87760	87850	90	Volume now full.
XX	97462	97500	38	" " "
XXIII	106825	106856	31	Volume in use
XXIV	112041			Reserved for fossils
XXV	116920	120825	3905	Volume now full
XXVI	120825	122524	1700	Volume in use.
			5764	Total for 1890-91.

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Appendix A.

List of persons with whom
correspondence has been had
on topics connected with
the work of the Department
of Mollusks and Cenozoic Fossils.

1890-91.

C. L. Abbott	Cal.
A. Agassiz	Mass.
G. R. Aherm	Minn.
F. H. Aldrich	Ala.
C. C. Allen	Fla.
J. S. Arnhem	Cal.
Delos Arnold	Cal.
C. Aurivillius	Sweden
B. W. Austin	Tex.
A. Bäckström	Norway
F. C. Baker	N. Y.
S. J. Barrow	Mass.
W. J. Bendall	Austr.
C. E. Beecher	Conn.
R. Bergh	Denm.
R. A. Bibbins	Ill.
W. G. Binney	N. J.
Steph. Bowers	Cal.
J. C. Branner	Ark.
Thos. Brown	N. M.
A. W. Butler	Ind.

J. A. Campbell	Penna.
R. Clover	D.C.
J. D. A. Cockerell	Engl.
Thos. Condon	Or.
J. G. Cooper	Cal.
A. Cordery	Fla.
Elliott Cones	D.C.
H. Crosse	France
J. D. Dana	Conn.
Ph. Dautzenberg	Paris
Geo. M. Dawson	Can.
A. Dean	Penn.
J. W. Dean	Ohio
E. DeBoury	France
L. De Folin	France
J. M. De Launcy	N.Y.
Sherman Denton	Mass.
E. J. Dumble	Tex.
W. B. Dwight	N.Y.
A. M. Edwards	N.J.
V. Faussek	Russia

P. Fischer	France
Geo. L. Fish	Arizona
A. Fulton	London
W. F. Ganong	Mass
A. S. Gatschet	D.C.
W. O. Glassford	Cal.
A. Gregor	Ohio
A. de Gregorio	Italy
L. E. Hale	Cal.
Ch. Hallock	N. Y.
J. L. Hamilton	N. Y.
W. D. Hartman	Penna.
S. B. Hastings	N. Y.
A. Heilprin	Penn.
Henry Hemphill	Cal.
S. Hertenstein	Russia
J. B. Hidalgo	Spain
E. W. Hilgard	Cal.
R. T. Hill	Tex.
J. C. Hodge	Fla.
W. E. Hoyle	Engl.

A. von Sbering	Brasil.
S. Jackson	Alaska
R. J. Jackson	Mass
A. Jaske	Ohio
F. O. Johnson	Cal.
O. B. Johnson	Wash.
A. S. Karr	Can.
Joe. Keef	Cal.
C. R. Keyes	Md.
J. B. La Penotiere	Fla.
J. Leidy	Penn.
G. W. Lichtenthaler	Ills.
D. F. Lincoln	N. Y.
M. Lindemann	Germany
G. Lindström	Sweden.
J. A. Lintner	N. Y.
S. Lovin	Sweden
E. R. Marsh	Fla.
W. A. Marsh	Ill.
D. F. Mason	D. C.
W. G. Mazzyck	S. C.

W. L. McDaniel	Texas
M. McDonald	D.C.
J. P. Mc Murrich	Mass.
L. D. A. Mendenhall.	Va.
F. C. Mendenhall.	D.C.
S. J. Monkes	Cal.
A. de Monterosato	Italy
H. Moore	India
J. B. Moore	D.C.
J. C. Neal.	Fila.
C. F. Newcombe	Canada.
A. M. Norman	Engl.
J. J. Northrop	N. Y.
D. Oehlert	France
A. B. Ogden	D.C.
A. Orban	D.C.
A. F. Osborn	N. J.
A. L. Osborn	Minn.
A. S. Packard jr.	R. Id.
A. T. Peck.	N. Y.
A. A. Pilsbry	Penn.

R. Rathbun	D.C.
W. J. Raymond	Cal.
Clement Reid	Engl.
J. J. Rivers	Cal.
A. Rolle.	Gerin.
E. W. Roper	Mass.
W. A. Rush	Penn.
J. Schaap.	Alaska.
E. R. Scidmore	D.C.
S. A. Scudder	Mass.
A. S. Shaler	Mass.
L. Shepard	Cal.
Jas. Shepard.	Conn.
B. Shimek	Iowa
J. A. Singley	Texas.
C. A. Smith	Engl.
E. A. Smith	Ala.
A. M. Smith	D.C.
J. W. Spencer	Ga.
F. Stearns	Mich.
Dr. V. Sterki	Ohio

J. O. Terry	N. Y.
L. W. Taylor	Vict.
J. L. Tilton	Iowa.
A. Todd.	Ore.
W. L. Trelease	Mo.
L. A. Trowbridge.	Cal.
G. L. Trowbridge	Cal.
L. M. Turner	Okla.
T. W. Vaughan	La
A. Vayssière	France
E. von Martens	Berlin.
A. M. Ward	N. Y.
R. B. Watson	Engl.
J. G. Webb.	Fla.
G. W. Webster	Fla.
C. A. Westerlund	Sweden.
W. W. Westgate	Tex.
A. G. Wetherby	A. C.
C. L. Wheeler	N. J.
J. J. White	Fla.
R. P. Whitfield	N. Y.

Joe Willcox	Penn.
M. B. Williamson	Cal.
F. Wilson	D.C.
A. W. Winkley	Me.
A. Winslow	Mo.
B. B. Woodward	Engl.
A. Woodward.	Engl.
S. Woodward	Engl.
G. F. Wright	Ohio
R. R. Wright	Can.
S. A. Wright	N. Y.
L. G. Yates	Cal.
S. A. Young.	Cal.

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for Miss Smith

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Appendix B.

List of accessions to the
collection included under the
Department of Mollusks
and Cenozoic fossils, 1890-91.

Abbott, W. L. 1926 Chestnut St., Phila., Pa.
 Feb. 26, 1891. 24008 3 species, 11 specimens
Conus, Achatina, Helix (Sagda?) from Seychelles Ids.

Aldrich, F. A. Blocton, Bibb Co., Ala.
 July 24, 1890. 23408. Ten sp. Red Bluff Eocene
 fossils ^{described} ~~distributed~~ and identified by Otto
 Meyer, from Alabama.

Aldrich, F. A. Blocton, Bibb Co., Ala.
 Nov. 15, 1890 - 23763. Collection of tertiary
 fossils named by Otto Meyer and illustrating
 his species, from U.S.

Arnheim, J. S. 8 Stewart St., San Francisco, Cal.
 June 4, 1891. 24416 Cancellaria crawfordiana
 and albino-land shells from California

Arnold, Hon. Delos, Pasadena Cal.
 Mar. 12, 1891, 24112. 83 species fossils, quater-
 nary & Pliocene, 60-70 ft. raised sand beach
 at San Pedro, Cal., ^{and} Deadmans Id., near San Pedro.

Baker, Marcus, U. S. Geol. Survey
Oct. 7, 1890, 23624, 28 specimens of Helix thy-
roides Say. var. bucculenta Gld. from near
cor. of 16th. and G. Sts N. W. Washington, D. C.

Bartleman, R. M. U. S. Legation, Caracas, Ven.
Jan. 20, 1891. 23596. Fine series of Argonauta
argo also other Marine shells from Caracas, Ven.

Bartleman, R. M. U. S. Legation, Caracas, Venezuela
Apr. 18, 1891. 24216 Marine shells, - an interest-
ing lot from Cumana, Venezuela

Bean, B. A. Smithsonian Institution
Sept. 26, 1890. - 23596. Specimen of Cuttle
Fish from near Cape Charles, Va. Chesapeake Bay

Bibbins, R. H. Wilton Center, Illinois
July 30, 1890. 23419, Shells from Illinois.

Bibbins, R. H. Wilton Center, Will Co., Ill.

Sept. 19, 1890 - 23539. Specimens of shells
from streams, mostly Unio (name wanted) Will Co., Ill.

Binney, W. G. Burlington, N. J.
Dec. 17, 1890. 23843. Type collection of slugs
from various localities.

Bolles, Lieut. T. Dix, U. S. A. U. S. S. Kipsic
July 19, 1890. 23392. 64 specimens of shells.

British Museum (thru Dr. A. Guenther)
Oct. 20, 1890. 23665. Mollusks from the
Challenger Expedition. Marine shells - 31
species and about 50 specimens from various localities.

Brown, R. W. 612 L. St. N. W. Wash. D. C.
Apr. 14, 1891. 24197. Specimen of Helix aspera
from a bunch of bananas, from Jamaica?

Burns, Frank. U. S. Geol. Survey.
July, 7, 1890. 23354. Collection of fresh-water

Mollusks, mostly from dredgings on the flats in Potomac Riv., District of Columbia.

Burns, Frank. Smithsonian Institution.
Jan. 6, 1890. 23912. Bunch of Oysters on old Coffee Mill, also a bunch on Whiskey bottle neck, from Chesapeake Bay.

Butler, A. W. Brookville, Indiana.
Apr. 30, 1891. 24266. Physa heterostrophia Say in alcohol, from Lake near Lake Valley, N. Mex.

Chatelain, A. 219-4½ st. Washington D. C.
July 22, 1890. 23400. Shells - important lot of ~~four~~ specimens from Africa.

Condon, Prof. Thos. Eugene City, Oregon.
Oct. 27, 1890. 23693. 5 specimens of 2 species of Fresh-water shells, from Link River. - fossils from Oregon Tertiary.

Copenhagen, Royal Zool. Museum, Denmark.
 Mar. 14, 1891, 24114. 11 species, 27 specimens Marine
 shells collected by the steamer "Dijmphna", in
 Danish Expl. Exp. of 1882 & 83. From South
 coast of Nova Zemlaia and the Kara Sea.

Dall, ~~Dr.~~ W. A. U. S. National Museum
 Oct. 25, 1890. 23689. Freshwater shells from Cal. & Oregon

Dall, ~~Dr.~~ W. A. Smithsonian Institution
 Jan. 26, 1891, 23978. Two specimens Asper-
gillum vaginiferum, Indo Pacific. Eight
 specs. Strombus fasciatus, Indo Pac., One
 spec. Bul. marilinus, Florida. Five specs.
Bulla sp. from Florida.

De Lancy, James M. 27 Rundel Park, ^[N. Y.] Rochester.
 Sept. 24, 1890. 23581. Several specimens of
Pupa badia from near Erie Canal.

Fowler, Hon. Jno. J. Mayor, Wilmington, N. C.

Feb. 27, 1891, 24076. Miocene fossils from
Wilmington, N.C.

Tutton, Aug. 89 Fulham Road, S. Kensington,
London, England.

Sept. 3, 1890, 23491. 8 specimens of 7 species
of Freshwater and Marine shells, from Lake
Tanganyika, & Amazons. (Purchased)

Tutton, Aug. 89, Fulham Road, London,
June 5 & 9, 1891, 24444, 15 species, 25 specimens
shells, from various localities. (In exchange)

Gibbons, Dr. W. P.

Aug. 18, 1890, 23464, Pholas pacifica Stearns
several specimens from Alameda, Cal.

Gregor. Isaiah. Jacksonville, Fla.

Mar. 5, 1891, 24093, 1 package shells from Gt. Harbor,
Bahamas.

Gregor, Isaiah Jacksonville, Fla.

June 8-9, 1891, 24446. Suit of Friton femorale
(~~parchard~~) from Bahamas. 2 sp. Sigaretus
~~giff~~ from Florida.

Hallock, Charles.

Aug. 18, 1890, 23465. Limax maximus, 2
specimens from N.Y.

Heathcote, W. Henry. 54 Frenchwood St.
Preston, Lancashire, Eng. (thr. W. A. Farver, ^{Orange} Va.)

May 19, 1891, 24355. 56 species of land and
freshwater shells from Gt. Britain

Humphill, Henry. San Diego, Cal.

Oct. 25, 1890. 23690. Tertiary fossils, 6 sp.
marine shells from L. Whatcom, State of
Washington and San Diego Cal.

Humphill, Henry. San Diego, Cal.

Nov. 21, 1890. 23777. Ostraea Veatchii Gabb,
Miocene, from San Diego, Cal.

Hodge, A. G. York, Clark Co., Ill.
Aug. 13, 1890. Ex. 343. Samples of clay
containing shells from near York, Ill.

Shering, Dr. A. von; Rio Grande do Sul, Brazil
Nov. 10, 1891, 24102, 9 sp. recent shells, 16 sp.
fossils from Rio Grande do Sul.

Shering, Dr. A. von. Rio Grande do Sul, Brazil.
Nov. 25, 1891, 24139, Unionidae and other
freshwater shells, & Marine shells to be named,
from Brazil.

Jackson, R. T. 33 Gloucester St., Boston, Mass.
Nov. 4, 1890, 23731. Collection of young
stages of oysters etc., illustrative of the
donor's paper in Mem. Boston Soc. Nat.
Hist. ^{on the} Phylogeny of Pelecypods, ~~A. Eng.~~

Jaske, Bro. Herman, Normal School, Dayton, Ohio
Sept. 9, 1890. 879. Shells for determination.

Jaske, Bro. Herman, Dayton, Ohio.
Dec. 4, 1890, 951, 46 sp. shells for names. (name made note)

Jony, P. L. U. S. National Museum.
Aug. 12, 1890, 23445, Collection of Land
snails from Roan Mt. and Cranberry, N. C.
and vicinity of Natural Bridge, Va.

Keefe, Prof. Josiah, Mills College, Cal.
Dec. 16, 1890, 23838. Zonites conspectus from
Alameda Co., Cal.

Kirby, G. W. 700 A. St., Brunswick, Ga.
Dec. 20, 1890, 23858, Valves of Chiton (Acantho-
pleura sp.) for name, locality unknown.

Lemon, J. A. New Albany, Floyd Co., Indiana
Apr. 24, 1891, 24233, Six specimens of Helix
albolabris from Indiana.

Moser, Lieut. J. P. U. S. A. Str. A. D. Bach, Balt., Md.

July 5, 1890. 23352. One jar & one bottle of shells
in alcohol from Florida Reef.

Orcutt, C. R. San Diego, Cal.

Oct. 18, 1890. 22456, Audibranchs. from San
Diego, Cal. (Doris sp.)

Orcutt, C. R. San Diego, Cal.

Nov. 1, 1890. 23724, Three specimens of
slugs from San Diego (names wanted)

Palmer, Joseph, U. S. National Museum.

Sept. 9, 1890. 23511, Specimens of Perna
marillata Lam. = P. torta Say. from Potomac
Riv., Va., 60 miles south of Washington, D. C.

Palmer, Joseph U. S. Nat. Mus.

Oct. 15, 1890. 23646, Shells - (dry & alc.) and
fossils from St. Paul Id., Alaska.

Pilsbry, H. A. Acad. Nat. Sci. Phila.

Oct. 20, 1890. 23664. Bulinulus Ragsdalei
Pils.; Monodonta Crusoanus Pils.; types.

Riley, Prof. C. W. Dept. of Agriculture, Washn. D.C.
May 19, 1891. 24347. Specimens of small land
shells from Blanco Co., Texas.

Rogers, Thomas, 27, Oldham Road, Man-
chester, England.

Feb. 27, 1891. Specimens of Planorbis dilator
tus from canal at Manchester, Eng.

Shepard, C. Antoinette, New Britain, Conn.
Mar. 30, 1891, 24151. Eggs of Ampullaria
depressa from Silver Springs, Florida.

Shepard, Miss. Ida. Long Beach, Cal.
July. 18, 1890. 23387. 1 specimen Tylodina cali
formica Gabb. Long Beach.

Shepard, Miss. Ida M. Long Beach, Cal.

Oct. 20, 1890. 23663. Fossil shells from well 25 feet deep near Long Beach, Cal.

Shepard, Miss. Ida M. Long Beach, Cal.
Feb. 5, 1891, 23997. 2 specimens of Scalaria bellastriata Chr. from Long Beach, Cal.

Shepard, James. New Britain, Conn.
Nov. 11, 1890, 23747. Silicified fossils from Tampa, Fla. - 5 species shells, Florida

Shimek, Prof. B. Iowa City, Iowa
Dec. 26, 1890. 23870. Specimens of Pupa alticola Ing. from Loess of Iowa.

Smith, H. M. U. S. Fish Com.
Jan. 8, 1891, Specimens of Pecten Magellanicus from Coast of Maine.

Spencer, Dr. J. W. Atlanta, Ga.
Aug. 11, 1890, 23443. Miocene fossils with phosphate of lime - from Thomas Co., Ga.

Stearns, Frederick, Detroit, Mich.
 June 4, 1891. 24417. Collection of shells from
 Japan (exchange) very fine.

Stearns, W. A. Cambridgeport, Mass.
 Oct. 20, 1890. 23662. Specimens of
 Mollusks in alcohol from Arichat,
 Cape Breton Id. N. Scotia

Turner, L. M.
 Aug. 18, 1890. 23466. Physa gyrina, ^{Say} Guthrie,
 Oklahoma.

U. S. Dept. of Agriculture (thr. Dr. C. Hart Merriam)
 Aug. 30, 1890. 23484. 11 specimens 4 species of
 Land shells from Texas.

U. S. Dept. of Agriculture (thr. Dr. C. Hart Merriam)
 Sept. 18, 1890. 23554. 9 species of Land and
 Freshwater shells from near Painted Cave,
 Rio Grande Riv., near mouth of Pecos Riv., Texas.
 (Wm Lloyd, collector.)

U. S. Dept. of Agriculture (thru Dr. C. Hart Merriam)
Oct. 4, 1890, 23614. 3 species of Fresh-water Gas-
tropods from Salmon Riv. Idaho, and 1 species
of Land Shell from Needle Park, Idaho.

U. S. Dept. of Agriculture (thru Dr. C. Hart Merriam)
Oct. 27, 1890. 23695. Four species, many specimens
freshwater mollusks, from Salmon River
and Shoshone Falls, Idaho

U. S. Dept. of Agriculture (thru Dr. Merriam)
Feb. 26, 1891, 24074. 5 species land shells col-
lected by Wm Lloyd, from Monterey, Mex.

U. S. Dept. of Agriculture, (Dr. Merriam)
Apr. 3, 1891, 24165. Shells (dry) from Grand Manon,
N. B.

U. S. Fish Com. (thru M. McDonald, Commr.)
Feb. 16, 1891. 24038. Mollusks collected by U. S.
Fish Com. Sch. "Grampus" off the W. coast Florida

during the spring of 1889. 163 specimens, from
Deep water Red snapper Grounds.

Vaughan, J. Wayland, Mt. Lebanon, La.
June 8-9, 1891, 24445. Land shells from Louisiana
(names wanted.)

Webster, L. W. Lake Helen, Volusia Co., Fla.
Jan. 27, 1891, 23980. 8 species Land and Freshwater
shells of A. A.

Wheeler, Chas. Leroy, Cape May, N. J.
June 13, 1891, 24465. Set of Mollusks showing
fauna of locality - from Cape May, N. J.

White, Dr. C. A. U. S. Natl. Museum.
June 11, 1891, 24458. Lot of mixed shells -
chiefly Unios from Iowa, etc.

White, J. J. Palm Beach, Fla.
Dec. 22, 1890, 23864. Spirula fragilis - Peronii.

with part of animal, in alcohol, from Ocean Beach, Florida.

Willcox, Joseph. Media, Pa.
June 8-9, 1891. Tertiary fossils from Florida.

Williamson, Mrs. M. Burton, Los Angeles Cal.
Sept. 1, 1890, 23485. One specimen Periploma
discus Stearns. Long Beach, Los Angeles Co., Cal.

Williamson, Mrs. M. B. Los Angeles, Cal.
Oct. 22, 1890. 23681, Two specimens of marine
shells from Los Angeles Co., Cal.

Williamson, Mrs. M. B. Los Angeles, Cal.
Dec. 17, 1890, 23844. 3 specimens Salvatis cracherodii
from St. Vincent, Los Angeles Co., Cal.

Winkley, Rev. A. H. Saco, Maine.
Oct. 25, 1890. 23688. Lunatia triseriata Say, (young shells)
Lyonsia arenosa Moll (faul) from Saco, Me.