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A BIBLIOGRAPHY AND CATALOG OF TAXA FOR  
ALLYN GOODWIN SMITH  
(1893-1976)

By

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**ABSTRACT:** A bibliography of 181 published titles and catalog of 76 named taxa is compiled for Allyn Goodwin Smith and summarized in table form. His contributions to malacology reflect the careful work, energy, and enthusiasm he displayed in life.

INTRODUCTION

When Allyn Goodwin Smith died at the age of 83, it was at the end of two full and equally successful careers. His retirement from the Pacific Telephone and Telegraph Company in 1955, after 30 years of service, allowed him the fulltime pursuit of his second career at the California Academy of Sciences. There he had served as Research Associate in Conchology since 1939, and was Research Malacologist from 1956 to 1960, while simultaneously serving as Executive Assistant to the Director. In 1960 he accepted appointment as Associate Curator of the newly reformed Department of Invertebrate Zoology, and in 1963, became chairman of the Department. He served in these capacities until his second retirement in 1972, after which he was an active Research Associate in Malacology, Department of Geology, until his death.

The major accomplishments of his scientific career and other biographical data have been detailed by Howard (1969), Kellogg (1976), Emerson (1977), Miller (1977), and Rodda (1977); in addition, Allyn is listed in *American Malacologists*. To all of these accounts should be added remarks made by his late wife Isabel Smith in 1977: "... in spite of his intense interest in the field of malacology he was always able to enter enthusiastically into the various interests of each member of his family. We were married over fifty years and I never knew him to lose his interest in other people or enthusiasm for life."

Noted primarily for his expertise in Polyplacophora and Gastropoda (especially Pulmonata), Allyn contributed significantly to knowledge of these taxa. He introduced a total of 76 new names, mostly in the chitons (31) and gastropods (43). Of the new gastropod taxa, 15 were prosobranch, 9 opisthobranch, and 19 pulmonate. His 76 new

TABLE 1. PUBLICATIONS OF ALLYN G. SMITH SUMMARIZED BY TIME PERIOD AND SUBJECT

	1917	1930s	1940s	1950s	1960s	1970s	1984	Total
Polyplacophora			4	2	12	8	1	27
Bivalvia			5					5
Cephalopoda					1	1		2
Gastropoda		(10)	(9)	(6)	(19)	(7)		(51)
Prosobranchia		1	8	2	4	1		16
Opisthobranchia					4			4
Pulmonata		9	1	4	11	6		31
Faunal lists	1	1	5	2	2			11
Misc. subjects			2	5	9	5		21
Popular articles		1			7			8
Notes		1	3	6	8	1		19
Biography/obituary				2	3	1		6
Reviews and notices			1	1	24	5		31
Total	1	13	29	24	85	28	1	181

names comprise 67 species-level taxa, 8 new genera, and 1 new family. Table 1 summarizes Allyn's publications by time period and subject and reveals changes in research emphasis and patterns of productivity that relate to periods in his career. For example, nearly one-half of his published titles appeared during the 1960s; the majority of these in the first half of the decade. It is evident that this productivity and enthusiasm coincided with the reactivation of the Department of Invertebrate Zoology and the vital role Allyn played in its establishment. In addition, the large number of short notes and reviews published during the early years of the *Veliger* reflect his commitment to the success of that journal. It is also of interest to note that pulmonates were the subject of papers early and late in his publishing career, while prosobranchs received his attention primarily during the 1940s and 1950s.

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### Explanation and Conventions

The bibliography is arranged chronologically. Each entry includes a full citation; exact dates of publication are provided for all papers naming new taxa (indicated by an asterisk [\*]) and for others when possible. Many of Allyn's articles in the *Minutes of the Conchological Club of Southern California* were published without titles, which have been provided in brackets. Cross-references to corrections are also provided within brackets. This bibliography would not be complete without noting that Allyn also made important contributions to works such as the *Land Mollusca of North America* (Pilsbry 1939), the *Intertidal Invertebrates of California* (Haderlie and Abbott 1980). Many of his writings (often in digested form and not included here) can also be found in the Annual Reports and Newsletters of the California Academy of Sciences.

The catalog of taxa is arranged alphabetically. Each entry includes the new taxon, authorship (if coauthored), original generic assignment, citation, type-locality, and known repositories of type-specimens. Many extant paratypes are not included for lack of information. Where the type-localities or museum numbers of type-specimens indicated here differ from the original account they have been checked against the actual specimens or published type-catalogs, and the correct version is given here. Measurements are in metric or English units as originally published; equivalents are included only if provided in the original.



## Abbreviations

AGS—Allyn Goodwin Smith  
 ANSP—Academy of Natural Sciences, Philadelphia  
 CASG—California Academy of Sciences, Department of Geology  
 CASIZ—California Academy of Sciences, Department of Invertebrate Zoology  
 LACM—Los Angeles County Museum of Natural History (OD)—original designation  
 OU—University of Oklahoma  
 SDNHM—San Diego Natural History Museum  
 SU—Stanford University (collections now on permanent loan to the California Academy of Sciences)  
 UBC—University of British Columbia  
 UCMP—Museum of Paleontology, University of California (Berkeley)  
 USGS—United States Geological Survey  
 USNM—United States National Museum

[At the California Academy of Sciences, type-specimens of Recent species originally cataloged into the type-series of the Department of Geology have been or eventually will be renumbered and transferred to the type-series of the Department of Invertebrate Zoology.]

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## TAXA NAMED IN HONOR OF ALLYN G. SMITH

From 1919 to 1984

- allyni*, *Ammonitella yatesi* Chace, 1951  
*allyni*, *Fusinus* McLean, 1970  
*allyni*, *Gastrocopta (Immersidens)* Roth and Christensen, 1984  
*allyni*, *Ischnochiton* Ferreira, 1977  
*allyni*, *Terebra* Bratcher and Burch, 1970  
*allyniana*, *Cymatosyrinx* Hertlein and Strong, 1951  
*allyniana*, *Epiphragmophora tudiculata* Berry, 1920  
*allyniana*, *Vertigo* Berry, 1919  
*allynsmithi*, *Acutichiton* Hoare, Mapes, and Atwater, 1983  
*allynsmithi*, *Helminthoglypta* Pilsbry, 1939  
*allynsmithi*, *Lepidozona* Ferreira, 1974

*allynsmithi*, *Sonorella* Gregg and Miller, 1969  
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### CATALOG OF TAXA DESCRIBED BY ALLYN G. SMITH

*abyssicola* Smith and Cowan, *Ischnochiton*, 1966:4-8; fig. 1-19.

TYPE-LOCALITY.—Canada, British Columbia, Queen Charlotte Sound, WNW of Triangle Island, 470-480 fms (860-878 m).

HOLOTYPE.—CASIZ 019512.

PARATYPES.—ANSP 310043; CASIZ 019513, 019514; UBC 5299, 5369.

*albemarlensis* Smith and Ferreira, *Leptochiton*, 1977:83-84; fig. 1-2.

TYPE-LOCALITY.—Ecuador, Galápagos Islands, Isla Isabela, Tagus Cove, dredged in 20 m.

HOLOTYPE.—CASIZ 016440.

PARATYPE.—CASIZ 016441.

*arbutclensis* Smith in Smith and Toomey, *Eochiton*, 1964:26-27; pl. 6, fig. 1-9.

TYPE-LOCALITY.—Oklahoma, Murray County, (Lower Ordovician) Kindblade Formation, zone of abundant *Calathium* 450 ft above base of Kindblade Limestone, 6 mi WSW of Mill Creek village (SW¼ SW¼ SE¼ Sec 17, T2S, R4E).

HOLOTYPE.—OU 5217.

PARATYPES.—CASG 12592; USNM 144540.

*arthurcooperi*, *Pterochiton*, 1976:281-282; fig. 1-28.

TYPE-LOCALITY.—Texas, Brewster County, (Permian) Word Formation, sponge bed about the middle of limestone no. 2, crest of slope 400-800 m SW of road fork near Old Word Ranch, 27.2-28.8 km NNE of Marathon, Hess Canyon quadrangle (USNM loc. 703c [compare to Hoare and Smith 1984]).

HOLOTYPE.—USNM 211115.

PARATYPES.—USNM 221116-221118, 221120-221124, 221132.

*bartschi* Smith and Gordon, *Turbonilla* (*Bartschella*), 1948: 222-223; pl. 3, fig. 13.

TYPE-LOCALITY.—California, Monterey County, Monterey

Bay, dredged in 25 fms near the bell buoy off Cabrillo Point.

HOLOTYPE.—CASIZ 024962.

[see: *T. (B.) bartschiana*]

*bartschiana* Smith and Gordon, *Turbonilla (Bartschella)*, 1949: 105. New name for *T. (B.) bartschi* Smith and Gordon, 1948, not *T. (Careliopsis) bartschi* Aguayo and Rehder, 1936. [see: *T. (B.) pauli*]

*belvederica* Keen and Smith, *Berthelinia (Edentellina) chloris*, 1961:53–54; text fig. 18–19, 21–24, 27–32; pl. 5, lower figure.

TYPE-LOCALITY.—Mexico, Baja California Sur, Puerto Balandra Bay about 10 mi northeast of La Paz.

HOLOTYPE.—CASG 12317.

PARATYPES.—CASG 12318, 12318a–c; SDNHM 1542a,b–1544a,b; SU 9172.

*berryi* Smith, Sohl, and Yochelson, *Chiton (Chiton)*, 1968:3–4; pl. 1, fig. 1–3.

TYPE-LOCALITY.—Georgia, Quitman County, (Upper Cretaceous) Upper Ripley Formation, on Tabannee Creek, 0.2 mi upstream from the bridge of the Central of Georgia Railroad near Georgetown (USGS Mesozoic loc. 25923).

HOLOTYPE.—USNM 157875.

PARATYPES.—USNM 157876–157879.

*berryi* Smith and Gordon, *Dentalium*, 1948:216; pl. 3, fig. 1–4.

TYPE-LOCALITY.—California, Monterey County, Monterey Bay, dredged in about 40 fms in fine muddy sand and shale fragments on Humpback Reef.

HOLOTYPE.—CASG 8525.

PARATYPES.—CASG 8526, 8526a–c.

*burchi* Smith and Gordon, *Calyptrea*, 1948:227–228; pl. 4, fig. 11–13.

TYPE-LOCALITY.—California, Monterey County, Monterey Bay, dredged in 20–30 fms between the bell buoy off Cabrillo Point and the shale bed off Del Monte.

HOLOTYPE.—CASG 8554.

PARATYPES.—CASG 8555, 8556, 8556a,b.

*calathicolus* Smith in Smith and Toomey, *Ivoechiton*, 1964: 24–25; pl. 5, fig. 1–14.

TYPE-LOCALITY.—Oklahoma, Murray County, (Lower Ordovician) Kindblade Formation, zone of abundant *Calathium* 450 ft above base of Kindblade Limestone, 6 mi WSW of Mill Creek village (SW¼ SW¼ SE¼ Sec 17, T2S, R4E).

HOLOTYPE.—OU 5213.

PARATYPES.—CASG 12589–12591; OU 5214, 5215; USNM 144536–144539.

*californicus*, *Megomphix*, 1960:1–2; fig. 1–3.

TYPE-LOCALITY.—California, Trinity County, Natural Bridge Cave.

HOLOTYPE.—CASG 12143.

PARATYPES.—CASG 12144–12149; SDNHM 1642; SU 8627.

*carmelensis* Smith and Gordon, *Skenea*, 1948:229–230; pl. 4, fig. 8–10.

TYPE-LOCALITY.—California, Monterey County, Carmel Bay, dredged in 25 fms in sand.

HOLOTYPE.—CASG 8560.

PARATYPES.—CASG 8561, 8562; SU 6593.

*carmenae* Smith and Ferreira, *Callistochiton*, 1977:87–88; fig. 10–11.

TYPE-LOCALITY.—Ecuador, Galápagos Islands, Isla Santa Cruz, Academy Bay.

HOLOTYPE.—CASIZ 016434.

PARATYPE.—CASIZ 016435.

*cavagnaroi*, *Naesiotus*, 1972:12–13; fig. 10–17.

TYPE-LOCALITY.—Ecuador, Galápagos Islands, Isla Santa Cruz, about 7 km NE of the village of Santa Rosa in the vicinity of a series of small volcanic craters in a *Scalesia* forest, beneath lava rocks and dead wood.

HOLOTYPE.—CASIZ 025975.

PARATYPES.—CASIZ 025976–025980; SU 10334, 10334a–c.

*Chauliochiton* Hoare and Smith, 1984:96.

TYPE-SPECIES (OD).—*Chauliochiton knighti* Hoare and Smith, 1984.

*churchi* Hanna and Smith, *Monadenia*, 1933:79–80; pl. 5, fig. 1–5; pl. 6, fig. 8.

TYPE-LOCALITY.—California, Tehama County, 2.1 mi E of Payne's Creek Station.

HOLOTYPE.—CASG 5806.

PARATYPES.—CASG 5807; SDNHM 2935–2938.

*churchi* Smith and Gordon, *Odostomia (Menestho)*, 1948:224; pl. 3, fig. 12.

TYPE-LOCALITY.—California, Monterey County, Monterey Bay, dredged in 25 fms near the bell buoy off Cabrillo Point.

HOLOTYPE.—CASG 8544.

*colimensis*, *Ischnochiton*, 1961:86–87; pl. 9, fig. 2 [not fig. 1 as indicated].

TYPE-LOCALITY.—Mexico, Colima, Manzanillo, under stones.

HOLOTYPE.—ANSP 152139.

PARATYPE.—CASG 12342.

*comptus* Hoare and Smith, *Ochmazochiton*, 1984:87–90; fig. 2–3.

TYPE-LOCALITY.—Texas, Culberson County, (Permian) Bone Spring Formation, 32.4 m above Hueco Limestone on E side of hill 4402, N end of Baylor Mountains, W side of Texas Highway 54, 0.97 km S22°W of bench mark 3806, Van Horn quadrangle (USNM loc. 725d).

HOLOTYPE.—USNM 330834.

PARATYPES.—USNM 330835–330847.

*costatum*, *Haplotrema*, 1957:28; pl. 1, fig. 6–8.

TYPE-LOCALITY.—California, Tulare County, Cave No. 12–19, about 14 mi NNE of Springville.

HOLOTYPE.—CASG 10286.

*coxi* Hoare and Smith, *Stegochiton*, 1984:99; fig. 10A–I.

TYPE-LOCALITY.—Texas, Brewster County, (Permian) Skin-

ner Ranch Formation (lower), at break in slope 2.18 km S83°W of hill 5816, 0.54 km N30°W of hill 5305, N side of Hess Ranch Horst, Hess Canyon quadrangle (USNM loc. 720g).

HOLOTYPE.—USNM 330887.

PARATYPES.—USNM 330892, 330893.

*cuyama* Hanna and Smith, *Helminthoglypta*, 1937:15–16; pl. 1, fig. b.

TYPE-LOCALITY.—California, Santa Barbara County, rockslide of Franciscan chert 23.7 mi E of Santa Maria, on S side of highway toward Maricopa.

HOLOTYPE.—CASIZ 020802.

PARATYPES.—CASIZ 020838; LACM 1224; SDNHM 435, 755–756.

*delmontensis* Smith and Gordon, *Balcis*, 1948:219; pl. 3, fig. 5.

TYPE-LOCALITY.—California, Monterey County, Monterey Bay, dredged in 10 fms in fine sand and shale fragments off Del Monte.

HOLOTYPE.—CASG 8531.

PARATYPES.—CASG 8532–8538; LACM 1005; SU 8031.

*deroyi*, *Naesiotus*, 1972:9; fig. 2–4, 7–9.

TYPE-LOCALITY.—Ecuador, Galápagos Islands, Isla Santa Cruz, on the NW side at an elevation of about 264 m (870 ft) on a species of thorny bush (locally called "mora").

HOLOTYPE.—CASIZ 025984.

PARATYPES.—CASIZ 025985, 025986; SU 10333.

[=*N. blombergi* (Odhner 1951) see: Smith 1974]

*Eochiton* Smith in Smith and Toomey 1964:25.

TYPE-SPECIES (OD).—*Eochiton arbuclensis* Smith, 1964.

*eyerdami*, *Beringius*, 1959:5–6; pl. 2, fig. 3–4; pl. 3.

TYPE-LOCALITY.—Washington, about 40 mi off Cape Flattery opposite the entrance to the Strait of Juan de Fuca, dredged in approximately 100 fms on La Perouse Bank.

HOLOTYPE.—CASIZ 024238.

PARATYPES.—CASIZ 024239, 024240, 024254; SDNHM 1455; SU 8640.

*fackenthallae* Smith and Gordon, *Turbonilla* (*Turbonilla*), 1948:220; pl. 3, fig. 7–8.

TYPE-LOCALITY.—California, Monterey County, Monterey Bay, dredged in 20–30 fms in sand between the bell buoy off Cabrillo Point and the shale bed off Del Monte.

HOLOTYPE.—CASG 8539.

PARATYPE.—SU 8032.

*farallonensis*, *Liotia*, 1952:385–386; pl. 20, fig. 2–4.

TYPE-LOCALITY.—California, San Francisco County, Southeast Farallon Island, in bird guano.

HOLOTYPE.—CASG 9527.

PARATYPE.—CASG 9528.

*formicis* Hoare and Smith, *Lekiskochiton*, 1984:95–96; fig. 70–X.

TYPE-LOCALITY.—Texas, Brewster County, (Permian) Road Canyon Formation at 1484 m elevation, 2.19 km S4°W of Willis Ranch, 1.57 km N68°E of hill 5801, Hess Canyon quadrangle (USNM loc. 726d).

HOLOTYPE.—USNM 330863.

PARATYPES.—USNM 330864, 330873.

*girtyi* Hoare and Smith, *Helminthochiton*, 1984:92–93; fig. 6, 7A–G.

TYPE-LOCALITY.—Texas, Brewster County, (Permian) Road Canyon Formation at 1484 m elevation, 2.19 km S4°W of Willis Ranch, 1.57 km N68°E of hill 5801, Hess Canyon quadrangle (USNM loc. 726d).

HOLOTYPE.—USNM 330865.

PARATYPES.—USNM 330866–330872.

*hami* Smith in Smith and Toomey, *Gotlandochiton*, 1964:28–29; pl. 7, fig. 1–15.

TYPE-LOCALITY.—Oklahoma, Murray County, (Lower Ordovician) Kindblade Formation, zone of abundant *Calathium* 450 ft above base of Kindblade Limestone, 6 mi WSW of Mill Creek village (SW¼ SW¼ SE¼ Sec 17, T2S, R4E).

HOLOTYPE.—OU 5223.

PARATYPES.—CASG 12593–12598; OU 5224–5232; USNM 144541–144545.

*hannai* Smith and Gordon, *Rissoina*, 1948:226; pl. 4, fig. 4.

TYPE-LOCALITY.—California, Monterey County, Carmel Bay, dredged in 25 fms.

HOLOTYPE.—CASG 8548.

PARATYPES.—CASG 8549–8552; LACM 1004; SDNHM 695, 3347–3349; SU 8034.

*heathi* Smith and Gordon, *Odostomia* (*Salassiella*), 1948:223; pl. 3, fig. 14.

TYPE-LOCALITY.—California, Monterey County, Monterey Bay, dredged in 15 fms near the bell buoy off Cabrillo Point.

HOLOTYPE.—CASG 8543.

*hertleini* Hanna and Smith, *Helminthoglypta*, 1937:16–17; pl. 1, fig. c.

TYPE-LOCALITY.—Oregon, Jackson County, lava rock slide 6.6 mi E of junction of the Klamath Falls road and U.S. Highway 99, N side of road.

HOLOTYPE.—CASIZ 020839.

PARATYPES.—CASIZ 020840, 020841.

*hertleini* Smith and Gordon, *Rissoella*, 1948:224–225; pl. 3, fig. 15.

TYPE-LOCALITY.—California, Monterey County, Monterey Bay, dredged in 10 fms in sand off Cabrillo Point.

HOLOTYPE.—CASG 8545.

PARATYPES.—CASG 8545a; LACM 1003; SDNHM 696; SU 8033.

*humboldtiana*, *Neptunea*, 1971:33; fig. 1–13.

TYPE-LOCALITY.—California, Humboldt County, 120 fms off Redding Rock.

HOLOTYPE.—CASIZ 021023.

PARATYPES.—CASIZ 021024–021029, 021047, 021053, 021054, 021056–021058, 021066.

*jacquelineae* Smith and Ferreira, *Acanthochitona*, 1977:93–94; fig. 18–19.

TYPE-LOCALITY.—Ecuador, Galápagos Islands, Isla Santa Cruz, S end of Academy Bay, dredged in 40–50 m (21.3–26.5 fms) on a broken coralline bottom off Isla Coamaño.

HOLOTYPE.—CASIZ 016436.

PARATYPE.—CASIZ 016437.

*juniperum*, *Pristiloma*, 1957:29–30; pl. 2, fig. 1–3.

TYPE-LOCALITY.—California, Plumas County, in the Cavern Room of Juniper Cave, on floor and under rocks (Sec 17, T23N, R10E Downieville quadrangle).

HOLOTYPE.—CASG 10287.

*keenae* Smith and Gordon, *Rissoina*, 1948:227; pl. 4, fig. 3.

TYPE-LOCALITY.—California, Monterey County, Monterey Bay, dredged in 5–15 fms in coarse granite sand and broken shells off Point Pinos.

HOLOTYPE.—CASG 8553.

PARATYPES.—CASG 8553a; SU 8035.

*keipi* Smith and Gordon, *Margarites*, 1948:228–229; pl. 4, fig. 5–7.

TYPE-LOCALITY.—California, Monterey County, Monterey Bay, dredged in 25 fms in sand near the bell buoy off Cabrillo Point.

HOLOTYPE.—CASG 8557.

PARATYPES.—CASG 8558, 8559, 8559a.

*kindbladensis* Smith in Smith and Toomey, *Paleochiton*, 1964:20–21; pl. 3, fig. 1–14.

TYPE-LOCALITY.—Oklahoma, Murray County, (Lower Ordovician) Kindblade Formation, zone of abundant *Calathium* 450 ft above base of Kindblade Limestone, 6 mi WSW of Mill Creek village (SW¼ SW¼ SE¼ Sec 17, T2S, R4E).

HOLOTYPE.—OU 5211.

PARATYPES.—CASG 12586; OU 5212; USNM 144533.

*knighti* Hoare and Smith, *Chauliochiton*, 1984:96–97; fig. 8, 9A–J.

TYPE-LOCALITY.—Texas, Culberson County, (Permian) Bone Spring Formation, 32.4 m above Hueco Limestone on E side of hill 4402, N end of Baylor Mountains, W side of Texas Highway 54, 0.97 km S22°W of bench mark 3806, Van Horn quadrangle (USNM loc. 725d).

HOLOTYPE.—USNM 330882.

PARATYPES.—USNM 330883–330886.

*Lekiskochiton* Hoare and Smith, 1984:93–95.

TYPE-SPECIES (OD).—*Lekiskochiton fornicis* Hoare and Smith, 1984.

*lombardii*, *Allogona*, 1943:545; pl. 48, fig. 1–3.

TYPE-LOCALITY.—Idaho, Idaho County, along Meadow Creek, 1.5 mi S of Selway Falls at 1,900 ft elevation.

HOLOTYPE.—CASG 7893.

PARATYPES.—CASG 7894–7898; LACM 1221; SDNHM 697, 3324–3329; SU 8065.

*mariposa*, *Monadenia* (*Corynadenia*) *hillebrandi*, 1957:24–25; pl. 1, fig. 2–5.

TYPE-LOCALITY.—California, Mariposa County, McLean Cave (Sec 20, T2S, R18E).

HOLOTYPE.—CASG 10283.

PARATYPES.—CASG 10284, 10285; LACM 1112; SDNHM 1969–1970; SU 8666.

*mattolensis*, *Helminthoglypta arrosa*, 1938:83–84; pl. 8, fig. 7–9.

TYPE-LOCALITY.—California, Humboldt County, on coast between Cape Mendocino and the mouth of the Mattole River, among fallen leaves of *Arbutus menziesii*.

HOLOTYPE.—CASG 7209.

PARATYPES.—CASG 7210a, 7211–7216; LACM 1222; SDNHM 342, 414–415, 433.

*meridionalis*, *Neptunea*, 1971:39–40; fig. 14–20.

TYPE-LOCALITY.—Canada, British Columbia, about 90 fms in Hecate Strait off the Queen Charlotte Islands.

HOLOTYPE.—CASIZ 021168.

PARATYPE.—CASIZ 021069.

*montereyana* Smith and Gordon, *Metzgeria*, 1948:218–219; pl. 3, fig. 6.

TYPE-LOCALITY.—California, Monterey County, Monterey Bay, dredged in 15 fms in fine sand off Del Monte.

HOLOTYPE.—CASG 8530.

*montereyensis* Smith and Gordon, *Cardita* (*Cyclocardia*) *ventricosa*, 1948:212–213; text fig. 2A, B; 3A, B.

TYPE-LOCALITY.—California, Monterey County, Monterey Bay, dredged in 63 fms about 4.6 mi NW of Point Pinos in fine sand, sand pellets, and pebbles.

HOLOTYPE.—CASG 8518.

PARATYPES.—CASG 8519–8523; LACM 1002; SDNHM 1640a,b, 1641; SU 8029.

*montereyensis* Smith and Gordon, *Retusa* (*Sulcularia*), 1948:217; pl. 3, fig. 11.

TYPE-LOCALITY.—California, Monterey County, Monterey Bay, dredged in 25 fms in fine sand and shell fragments near the bell buoy off Cabrillo Point.

HOLOTYPE.—CASG 8527.

PARATYPES.—CASG 8528, 8529, 8529a; SU 8030.

*newelli*, *Pterochiton*, 1976:285–286; fig. 29–34.

TYPE-LOCALITY.—Texas, Brewster County, (Permian) Road Canyon Formation, small *Leptodus* bed at 1484 m elevation, 2.19 km S4°W of Willis Ranch and 1.57 km N68°E of Hill 5801, Hess Canyon quadrangle (USNM loc. 726d).

HOLOTYPE.—USNM 211133.

PARATYPES.—USNM 211134–211139.

*Ochmazochiton* Hoare and Smith, 1984:87.

TYPE-SPECIES (OD).—*Ochmazochiton comptus* Hoare and Smith, 1984.

Ochmazochitonidae, Hoare and Smith, 1984:86–87.

TYPE GENUS (OD).—*Ochmazochiton* Hoare and Smith, 1984.



*oklahomensis* Smith in Smith and Toomey, *Ivocchiton*, 1964: 22-23; pl. 4, fig. 1-15.

TYPE-LOCALITY.—Oklahoma, Murray County, (Lower Ordovician) Kindblade Formation, zone of abundant *Calathium* 450 ft above base of Kindblade Limestone, 6 mi WSW of Mill Creek village (SW¼ SW¼ SE¼ Sec 17, T2S, R4E).

HOLOTYPE.—OU 5219.

PARATYPES.—CASG 12587, 12588; OU 5220, 5221; USNM 144534, 144535.

*onerous* Hoare and Smith, *Stegochiton?*, 1984:99; fig. 10J-M.

TYPE-LOCALITY.—Texas, Brewster County, (Permian) Hess Formation at 1,408 m in section, 2.27 km N63°E of Hess Ranch house, Hess Canyon quadrangle (USNM loc. 709d).

HOLOTYPE.—USNM 330888.

PARATYPES.—USNM 330889-330891.

*Paleochiton* Smith in Smith and Toomey 1964:20.

TYPE-SPECIES (OD).—*Paleochiton kindbladensis* Smith, 1964.

*pauli* Smith and Gordon, *Turbonilla (Bartschella)*, 1958:151. New name for *T. (B.) bartschiana* Smith and Gordon, 1949, not *T. (Chemnitzia) bartschiana* Brown and Pilsbry, 1912.

*pomoensis*, *Helminthoglypta arrosa*, 1938:81-82; pl. 8, fig. 4-6.

TYPE-LOCALITY.—California, Mendocino County, Big River near mouth of Daugherty Creek, under redwoods.

HOLOTYPE.—CASG 7208.

PARATYPE.—CASG 7208a.

*praecursor* Smith, Sohl, and Yochelson, *Aulachochiton*, 1968: 6-7; pl. 1, fig. 4.

TYPE-LOCALITY.—Puerto Rico, Municipio de Lajas, Barrio Lajas Arriba, (Upper Cretaceous) San Germán Formation, about 2.95 mi SW of Sabana Grande in saddle near the 50 m hill E of Quebrada Jicara (USGS Mesozoic loc. 29075).

HOLOTYPE.—USNM 157880.

*rex* Church and Smith, *Helminthoglypta tudiculata*, 1938:119-120. (21 Apr); pl. 8, fig. 10-12 (18 Jan).

TYPE-LOCALITY.—California, Tulare County, beneath granite boulders along initial terrace above bed of the Middle Fork of the Tule River, about 2 mi above and E of Springville, at the boundary of the Sierra National Forest.

HOLOTYPE.—CASIZ 028038.

PARATYPES.—CASIZ 028033; LACM 1227; SDNHM 432, 1508.

*rossi* Smith, Sohl, and Yochelson, *Chiton (Chiton)*, 1968:4-5; pl. 1, fig. 5-8.

TYPE-LOCALITY.—Puerto Rico, Municipio de Lajas, Barrio Lajas Arriba, (Upper Cretaceous) San Germán Formation, about 2.95 mi SW of Sabana Grande in saddle near the 50 m hill E of Quebrada Jicara (USGS Mesozoic loc. 29075).

HOLOTYPE.—USNM 157884.

PARATYPES.—USNM 157881-157883.

*scalesiana*, *Naesiotus*, 1972:17-18; fig. 19-25.

TYPE-LOCALITY.—Ecuador, Galápagos Islands, Isla Santa Cruz, in the *Scalesia* zone, Horneman Farm area at an elevation of about 244 m (800 ft), on *Scalesia* trees and tall bushes.

HOLOTYPE.—CASIZ 0225989.

PARATYPES.—CASIZ 018830, 025990, 025991; CASIZ 470; SU 10335.

[= *N. eos* (Odhner 1951) according to Smith 1974, but not Coppoio and Glowacki 1983. *Malacologia* 23(2):209-219.]

*serrana* Smith and Gordon, *Alaba*, 1948:225-226; pl. 4, fig. 1-2.

TYPE-LOCALITY.—California, Monterey County, Carmel Bay, dredged in 25 fms.

HOLOTYPE.—CASG 8546.

PARATYPE.—CASG 8547.

*similans* Hanna and Smith, *Helminthoglypta*, 1937:13; text fig. 1; pl. 1, fig. d.

TYPE-LOCALITY.—California, Fresno County, 0.75 mi SE of Oil City.

HOLOTYPE.—CASIZ 020849.

PARATYPES.—LACM 1223; SDNHM 436, 757-759.

*Soleachiton* Hoare and Smith, 1984:90.

TYPE-SPECIES (OD).—*Soleachiton yochelsoni* Hoare and Smith, 1984.

*Speleodiscoides*, 1957:33.

TYPE-SPECIES (OD).—*Speleodiscoides spirellum* Smith, 1957.

*spirellum*, *Speleodiscoides*, 1957:34; pl. 2, fig. 7-9.

TYPE-LOCALITY.—California, Amador County, in Violin Cave on W bank of South Fork of Dry Creek (Sec 4, T7N, R12E Pine Grove quadrangle).

HOLOTYPE.—CASG 10289.

PARATYPES.—CASG 10290-10292; LACM 1111; SDNHM 1971-1973; SU 8668.

*Stegochiton* Hoare and Smith, 1984:97.

TYPE-SPECIES (OD).—*Stegochiton coxi* Hoare and Smith, 1984.

*stilesi*, *Neptunea*, 1968:117-118; pl. 14.

TYPE-LOCALITY.—Between La Perouse Bank, 40 mi W of Cape Flattery, Washington, and Cape Scott at the northern tip of Vancouver Island, British Columbia, Canada, in approximately 100-125 fms.

HOLOTYPE.—CASIZ 021010.

PARATYPES.—CASIZ 021011-021020; LACM 1152.

*stillmani* Smith and Gordon, *Turbonilla (Pyrgolampros)*, 1948: 221; pl. 3, fig. 9.

TYPE-LOCALITY.—California, Monterey County, Monterey Bay, dredged in 10 fms in sand and shale fragments, 0.5 mi off Del Monte Pier.

HOLOTYPE.—CASG 8540.

*tabogensis*, *Acanthochitona*, 1961:87-88; pl. 9, fig. 1. [not fig. 2 as indicated].

TYPE-LOCALITY.—Panama, Taboga Island.  
 HOLOTYPE.—SDNHM 1967.  
 PARATYPES.—ANSP 153556, 155314; CASG 12347;  
 SDNHM 1968.

*trogodytes* Hanna and Smith, *Monadenia*, 1933:84–85; pl. 5,  
 fig. 6–8.

TYPE-LOCALITY.—California, Shasta County, Samwel Cave, E  
 bank of McCloud River 16 mi above its mouth (Pleistocene).  
 HOLOTYPE.—UCMP 32394.  
 PARATYPE.—CASG 5842.

*willetti* Smith and Gordon, *Turbonilla* (*Pyrgolampros*), 1948:  
 222; pl. 3, fig. 10.

TYPE-LOCALITY.—California, Monterey County, Monterey  
 Bay, dredged in 10 fms in sand and shale fragments, 0.5 mi  
 off Del Monte Pier.

HOLOTYPE.—CASG 8541.

*williamsi*, *Helminthoglypta arrosa*, 1938:79–81; pl. 8, fig. 1–3.

TYPE-LOCALITY.—California, Marin County, Hog Island in  
 Tomales Bay.

HOLOTYPE.—CASG 7204.

PARATYPES.—CASG 7205–7207; LACM 1220; SDNHM 434,  
 754.

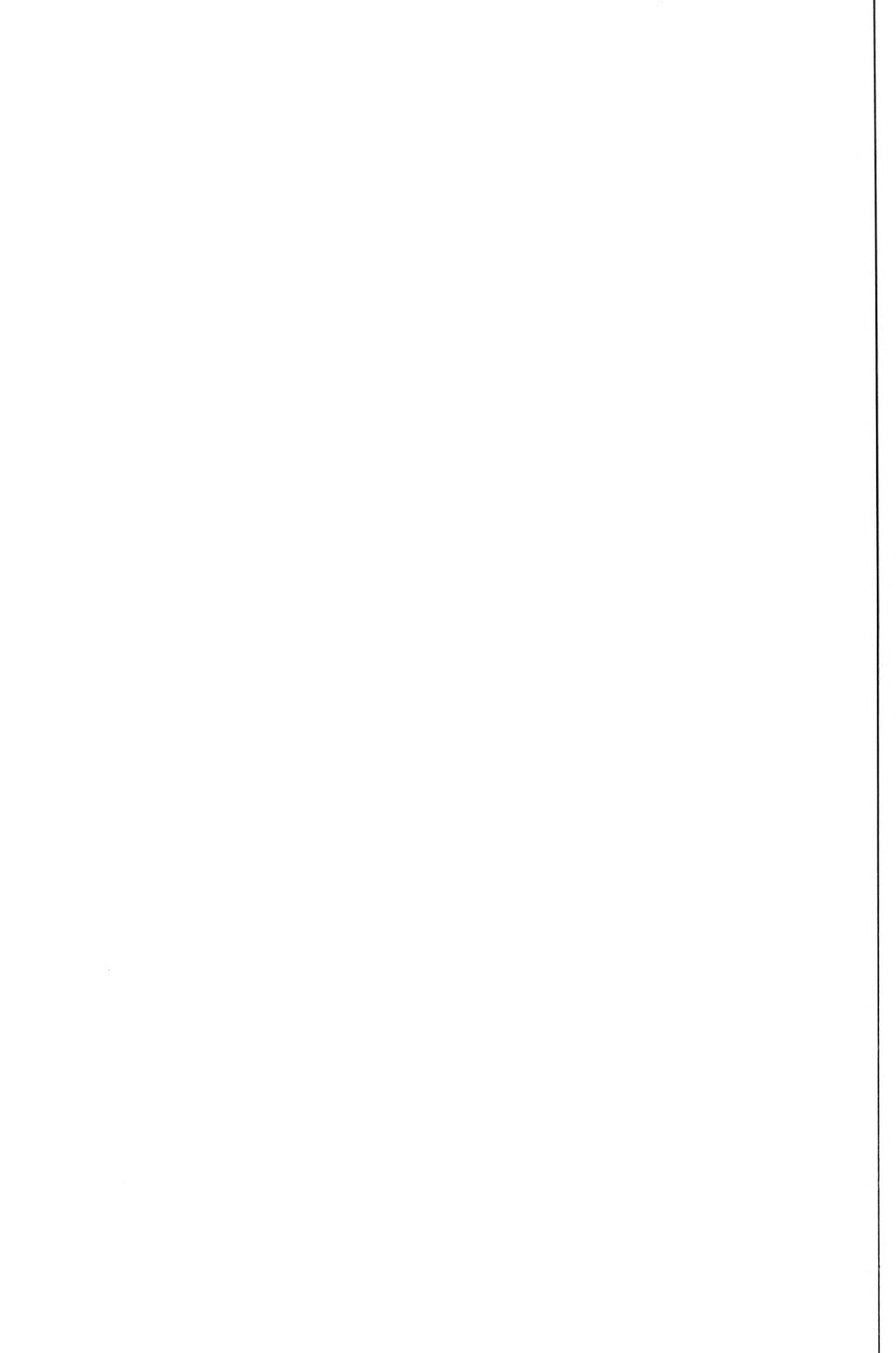
*yochelsoni* Hoare and Smith, *Soleachiton*, 1984:90–92; fig. 4–5.

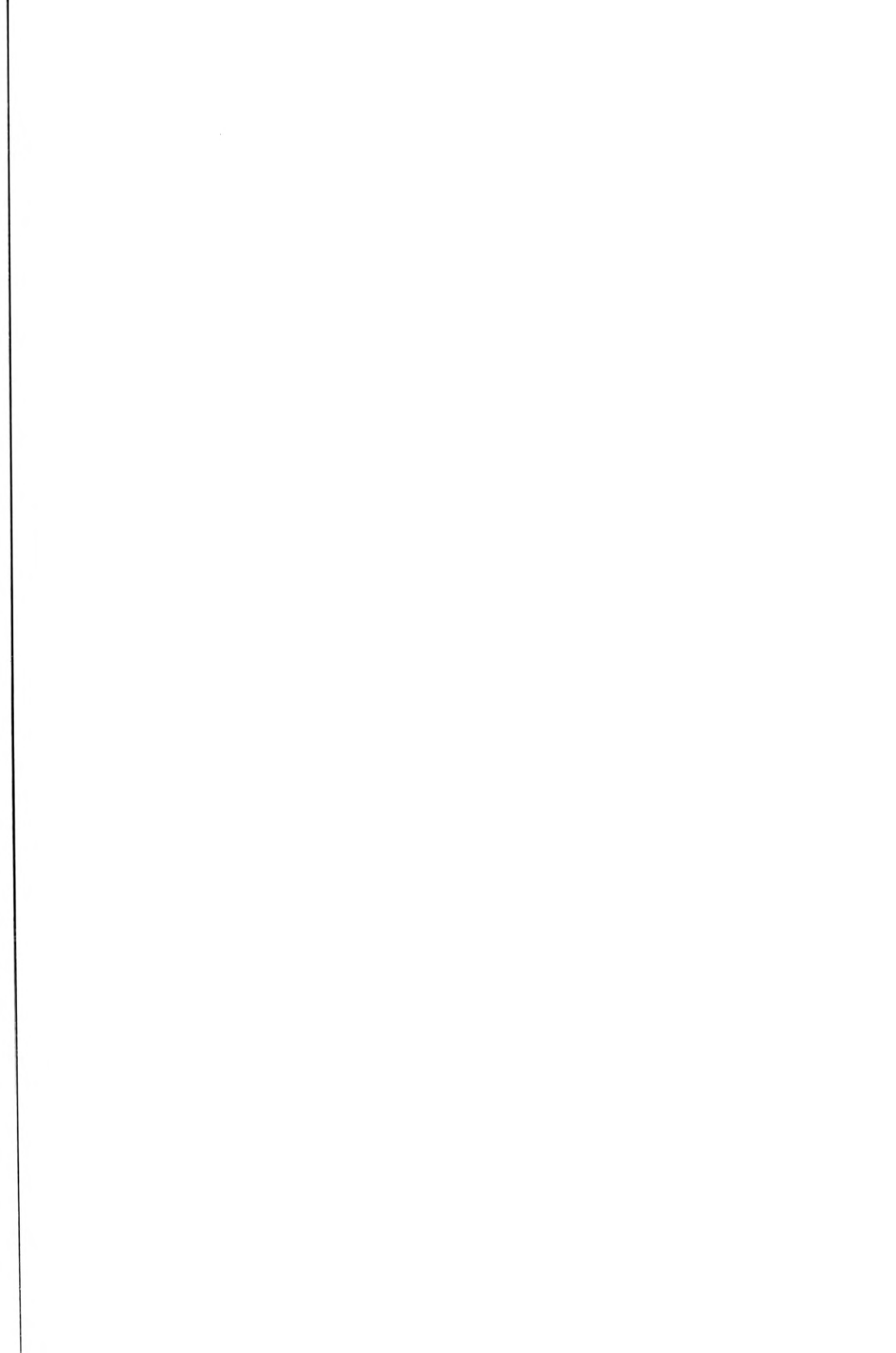
TYPE-LOCALITY.—Texas, Brewster County, (Permian) Ca-  
 thedral Mountain Formation (mostly *Institella* zone), slopes  
 on S side of road 0.65–0.81 km NE of Split Tank, 2.57 km  
 N56°E of Old Word Ranch house, Hess Canyon quadrangle  
 (USNM loc. 702).

HOLOTYPE.—USNM 330848.

PARATYPES.—USNM 330849–330862.

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