



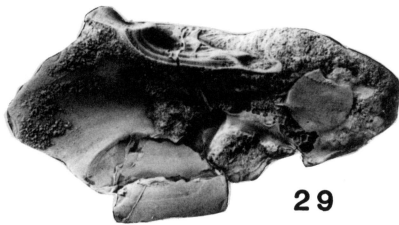
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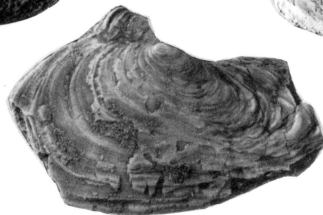
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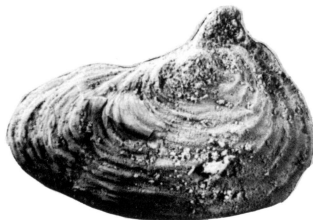
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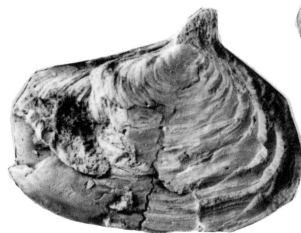
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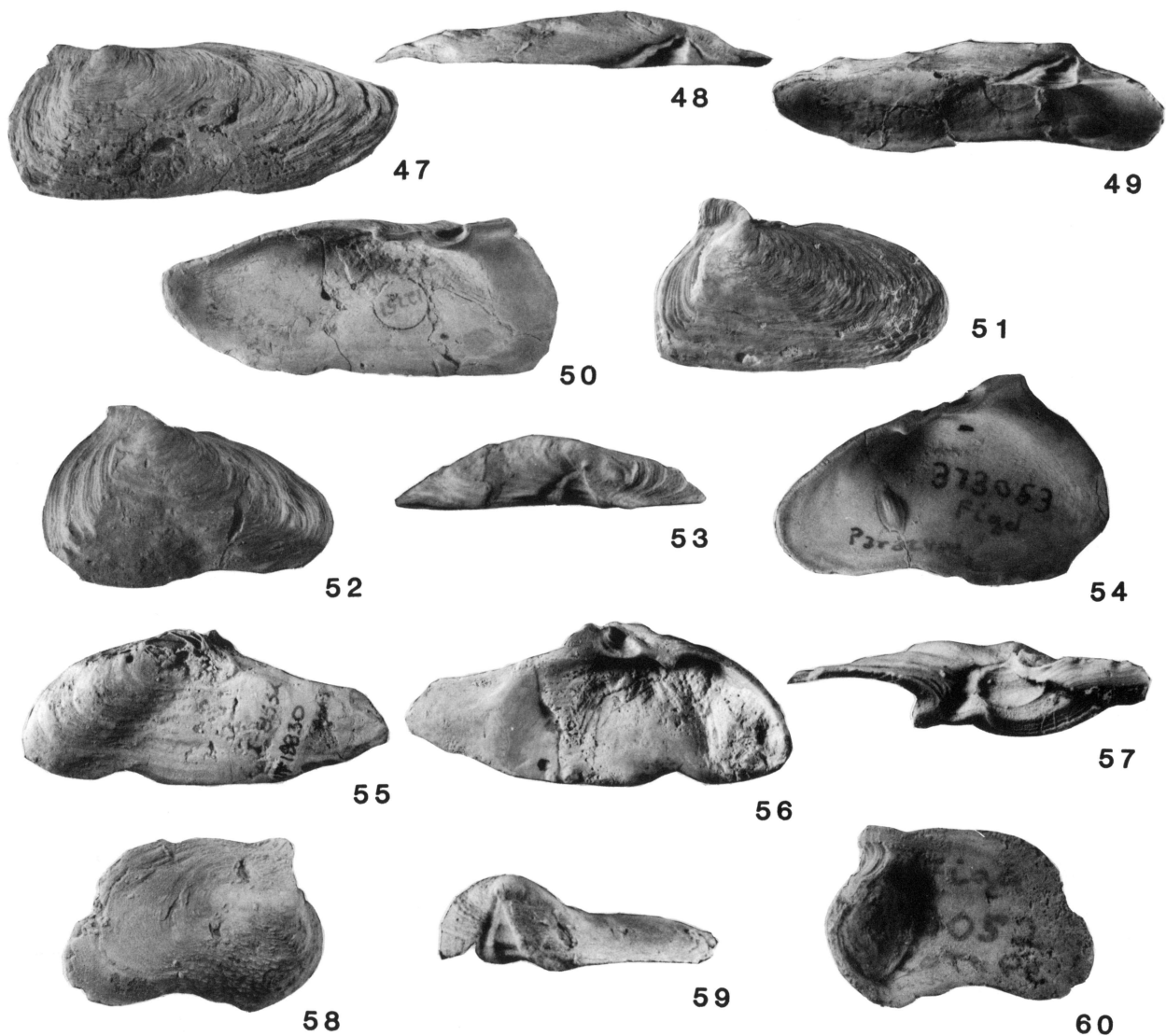
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## Explanation of Figures 47 to 60

Figures 47–60. *Nayadina (Exputens) ocalensis* (MacNeil, 1934). Figures 47–50: lectotype, USNM 373052, locality USGS 12751, right valve; Figure 47, exterior,  $\times 1.1$ ; Figure 48, dorsum,  $\times 1.2$ ; Figure 49, oblique view of dorsum,  $\times 1.2$ ; Figure 50, interior,  $\times 1.2$ . Figure 51: hypotype, UF 3481, quarry west of U.S. 441 at south edge of Kendrick, Marion County, Florida, right valve exterior,  $\times 1.5$ . Figures 52–54: paratype, USNM 373053, locality USGS 6812, right valve; Figure 52, exterior,  $\times 1.5$ ; Figure 53, dorsum,  $\times 1.6$ ; Figure 54, interior,  $\times 1.7$ . Figures 55–56: hypotype, UF 18830, Bell 1 quarry, Gilchrist County, Florida, left valve; Figure 55, exterior,  $\times 1.1$ ; Figure 56, interior,  $\times 1.2$ . Figure 57: hypotype, UF 5709, Dickerson Limerock Mines, Alachua County, Florida, right valve dorsum,  $\times 2.5$ . Figures 58–60: paratype, USNM 373052, locality USGS 12751, right valve; Figure 58, exterior,  $\times 3$ ; Figure 59, dorsum,  $\times 3.2$ ; Figure 60, interior,  $\times 3.1$ .

of valve length, and undulatory margins along the ligamental pit.

*Nayadina (E.) ocalensis* differs from *N. (E.) llajasensis* in having beaks and auricles that can be anterior of center, auricles that are never covered by the beaks, posterior part of ligamental area that can be ridgelike, length of ligamental pit approximately one-eighth rather than one-fourth of valve length, undulatory margins along the ligamental pit, and in both valves a more common occurrence of a

distinct groove that shows the former position of the byssal sinus.

**Lectotype:** USNM 373052, figs. 10–11 of MACNEIL (1934); designated by PALMER & BRANN (1965:143).

**Type locality:** Locality USGS 12751, Sumter Rock Co. quarry, just northeast of Sumterville, Sumter County, northern Florida.

**Paratypes:** USNM 373052 (=figs. 5-6 of MACNEIL [1934]) and USNM 373053.

**Distribution:** Southeastern United States Jackson Stage, equivalent to upper Eocene (upper Bartonian and Priabonian Stages). Jackson Stage: Crystal River Formation (=Ocala Limestone, restricted, according to PURI [1957]), northern Florida, localities USGS 6812 and 12751 (MACNEIL, 1934), Kendrick quarry (NICOL & SHAAK, 1973), unspecified localities in Columbia, Suwannee, Dixie, Gilchrist, Alachua, Levy, Marion, Citrus, and Sumter Counties, northern Florida (NICOL & SHAAK, 1973), and the following new localities: Newberry Corp. Pit 1, Dickerson Limerock Mines, Buda 1 Quarry, all from Alachua County, Florida, and Bell 1 Quarry, Gilchrist quarry, Florida; Toulmin collection locality Fla-1 (TOULMIN, 1977); Ocala Limestone, southwestern Georgia (NICOL & SHAAK, 1973); Castle Hayne Marl, unspecified localities in Pender and Wayne Counties, southeastern and north-central North Carolina (NICOL & SHAAK, 1973).

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## APPENDIX

## Localities Cited

- CSUN 473:** At elevation of 503 m (1650 ft) on a ridge, 320 m (1050 ft) north and 701 m (2300 ft) west of southeast corner of section 30, T3N, R17W, Santa Susana 7.5-minute quadrangle, 1969, northern Simi Valley, Ventura County, California. Locality is in the "Stewart bed" (SQUIRES, 1984:61). Llajas Formation. Age: Early middle Eocene ("Domengine Stage"). Collector: R. L. Squires.
- CSUN 1220b:** North side of a minor canyon, at an elevation of 120 m, on the west side of Mesa La Salina, 100 m above the bottom of the exposures of the Bateque Formation, approximately 1.25 km southeast of the intersection of 113°00'W and 26°45'N, San Jose de Gracia, Baja California Sur, Mexico, 1:50,000 quadrangle map (number G12A64), issued in 1983 under the authority of the Direccion General de Geografia. Bateque Formation. Age: Middle early Eocene ("Capay Stage"). Collectors: R. L. Squires and Robert Demetrien.
- UCMP A-1007:** Coarse sandstone reef, underlying and overlying shale, outcropping about 100 m from the mouth of a small gully on the north bank of Los Gatos Creek, which is a few kilometers north of the town of Coalinga and in the NE ¼, sec. 10, T20S, R14E (CLARK, 1934:272), Alcalde Hills 7.5-minute quadrangle, 1969, Fresno County, central California. Domengine Formation. Age: Early middle Eocene ("Domengine Stage"). Collector: Alex Clark.
- UCMP 7004:** At elevation of 518 m (1700 ft) on a small cliff on south side of a side canyon to Las Llajas Canyon, 594 m (1950 ft) north and 556 m (1825 ft) east of southeast corner of section 29, T3N, R17W, Santa Susana 7.5-minute quadrangle, 1969, northern Simi Valley, Ventura County, southern California. Locality is in the "Stewart bed" and is equivalent to localities UCLA 2312 and CSUN 374 (SQUIRES, 1984:58). Llajas Formation. Age: Early middle Eocene ("Domengine Stage"). Collectors: B. L. Clark and R. L. Squires.
- UF locality Newberry Corp. Pit 1:** SW ¼, SE ¼, sec. 13, T9S, R17E, Newberry quadrangle, Alachua County, northern Florida. Ocala Limestone. Age: Late Eocene. Collectors: H. S. Puri and others.
- UF locality Dickerson Limerock Mines (Haile Complex):** T9S, R17E, Newberry quadrangle, Alachua County, northern Florida. Inglis/Crystal River Formation. Age: Late Eocene. Collectors: D. S. Jones and students; D. Nicol and others.
- UF locality Buda 1 Quarry (bed 3):** NE ¼, NE ¼, sec. 32, T8S, R17E, High Springs SW quadrangle, Alachua County, northern Florida. Ocala Limestone. Age: Late Eocene. Collectors: H. S. Puri and others.
- UF locality Bell Quarry (bed 6):** SE ¼, NW ¼, sec. 24, R14E, T8S, Bell quadrangle, Gilchrist County, northern Florida. Ocala Limestone. Age: Late Eocene. Collectors: H. S. Puri and others.
- UF locality quarry west of U.S. 441 at south edge of Kendrick:** NW ¼, sec. 25, T14S, R21E, Marion County, northern Florida (NICOL & SHAAK, 1973). Crystal River Formation. Age: Late Eocene. Collectors: University of Florida, Gainesville, staff.
- USGS 6812:** Cummer Lumber Company, 2 km south of Newberry, Alachua County, northern Florida (MACNEIL, 1934:431). Crystal River Formation. Age: Late Eocene. Collector: C. W. Cooke.
- USGS 12751:** Sumter Rock Co. quarry, about 3.2 km (2 mi.) northeast of Sumterville, Sumter County, northern Florida (MACNEIL, 1934:431). Crystal River Formation. Age: Late Eocene. Collectors: W. C. Mansfield and G. M. Ponton.
- Toulmin's (1977) collection, Fla-1:** Mayo quarry, 7.5 km northwest of Mayo on U.S. Highway 27 and about 0.8 km south of Mayo fire tower in SE ¼, sec. 32, T4S, R11E, Lafayette County, northern Florida (TOULMIN, 1977:388). Crystal River Formation. Age: Late Eocene. Collector: L. D. Toulmin.