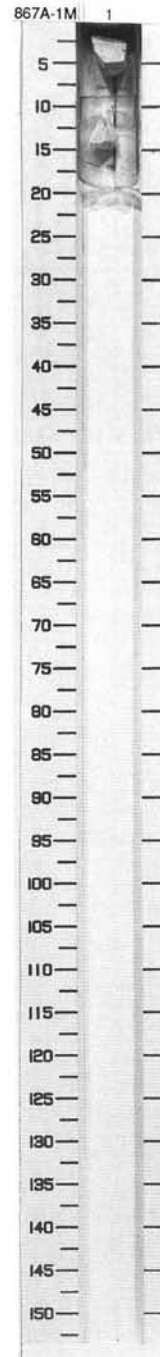


SITE 867 HOLE A CORE 1M

CORED 0.0 - 10.0 mbsf

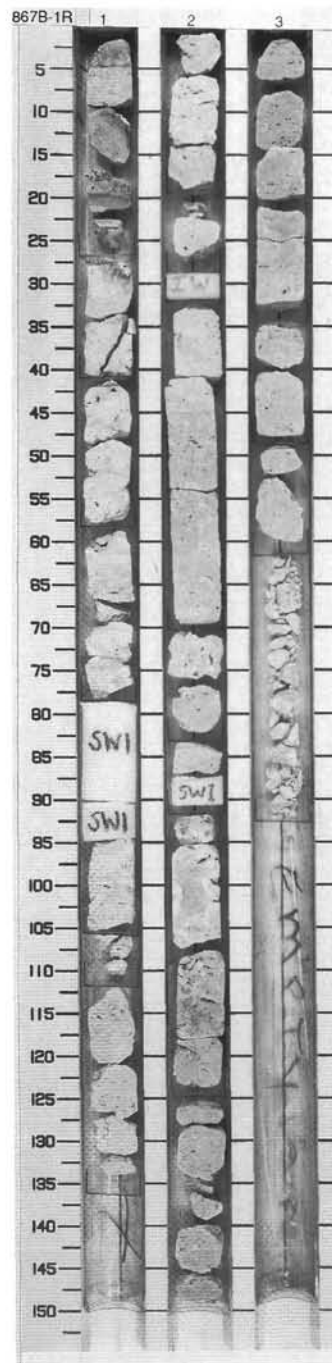
Meter	Graphic Lith.	Section	Age	Structure and Components	Disturb	Sample	Color	Description
	FFFF	1			I	M	10YR 8/2	<p>FLOATSTONE</p> <p>Major Lithology: FLOATSTONE, white (10YR 8/2), with partially recrystallized micrite, coated grains, bivalve fragments (<i>Gervillia</i> ? and probable caprinid rudist), gastropods, lithoclasts, red algae, voids filled with sparry calcite. Some encrustation of larger shell fragments, algal fragments.</p> <p>Minor Lithologies: BOUNDSTONE, as a clast with <i>Lithophaga</i> and sponge borings.</p>



SITE 867 HOLE B CORE 1R

CORED 0.0 - 8.1 mbsf

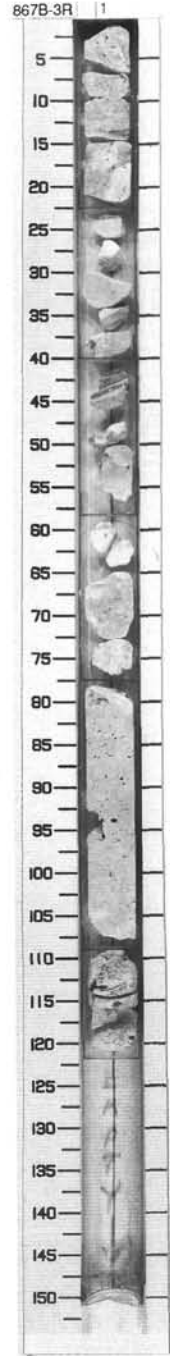
Meter	Graphic Lith.	Section	Age	Structure and Components	Disturb	Sample	Color	Description
0-1	[Pattern]	1	Albian		T			FLOATSTONE, WACKESTONE, GRAINSTONE, RUDSTONE, PACKSTONE, and FORAMINIFER-NANNOFOSSIL CHALK
1-2	[Pattern]	2			T			Major Lithologies: FORAMINIFER-NANNOFOSSIL CHALK, phosphatized, yellowish-brown (10YR 5/4), locally conglomeratic, with mm-scale rounded clasts, and impregnated with black (10YR 2/1) manganese dendrites, which rests directly on FLOATSTONE in Section 1, 0-29 cm. FLOATSTONE, white to very pale brown (10YR 8/2 to 10YR 8/3), contains well-rounded intraclasts of MUDSTONE and abundant rudist debris, occasional gastropods, corals and green algae, set in a matrix of peloidal micrite. This lithology occurs in Section 1, 0-136 cm, Section 2, 0-14 cm and 43-92 cm and Section 3, 61-93 cm, where it contains sparse cm-scale oncooids. Local void spaces are filled with sparry calcite and impregnated with manganese dendrites, these latter being particularly common in Section 1. Section 1 has local intercalations of WACKESTONE. Section 2, 14-43 cm contains peloidal PACKSTONE, white (10YR 8/2) with many oyster and rudist fragments and corals. Section 2, 92-118 cm comprises WACKESTONE, peloidal, with shell fragments, rudists and corals, blackened intraclasts, large vugs, an obvious burrow and is phosphatized. Section 2, 118-150 cm and Section 3, 0-38 cm are composed of RUDSTONE with imbricated clasts of rudist and gastropod fragments, commonly with micrite envelopes, peloids, and thin crusts. Section 3, 38-61 cm is a very pale brown (10YR 8/3) GRAINSTONE-RUDSTONE that contains local keystone vugs.
2-3	[Pattern]	3			P		10YR 8/2 To 10YR 8/3	
3-4	[Pattern]				T			



SITE 867 HOLE B CORE 3R

CORED 15.1 - 18.1 mbsf

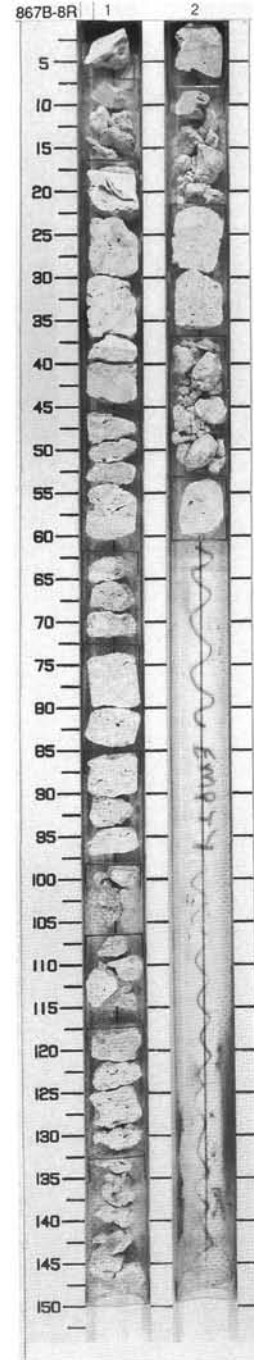
Meter	Graphic Lith.	Section	Age	Structure and Components	Disturb	Sample	Color	Description
1	W W W W W W W W W W W W W W W W F F F F F F F F	1	Albian	(Ph) 6 8 (Ph)	++ ++ ++ ++ ++ ++	T T P	10YR 8/2 To 10YR 8/3	<p>MUDSTONE, WACKESTONE, RUDSTONE, and FLOATSTONE</p> <p>Major Lithologies: WACKESTONE, very pale brown (10YR 8/3), with bivalve shell fragments and gastropods. Interval 0-22 cm contains angular black pebbles, is brecciated and includes internal cavities filled with laminated sediment, some of which is phosphatized. Interval 22-40 cm comprises WACKESTONE-MUDSTONE, white (10YR 8/1), with peloids. Interval 40-65 cm, is a brown (10YR 6/3), phosphatized WACKESTONE, some of which is a cavity fill. Interval 65-78 cm is constituted by RUDSTONE, very pale brown (10YR 8/4), containing rudist fragments and some gastropods. Interval 78-122 cm is a FLOATSTONE, very pale brown (10YR 8/3), with abundant shell fragments, intraclasts of cm-scale, some blackened and with much vuggy porosity, a portion of which is occluded by mm-laminated cavity fills. Intervals, 78-79 cm and 116-121 cm contain such cavity fills and are associated with phosphatization.</p>



SITE 867 HOLE B CORE 8R

CORED 52.5 - 61.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure and Components	Disturb	Sample	Color	Description
1	W W W W W I I I I I F	1	Albian	D G	~	P	10YR 8/2 To 10YR 8/3	<p>MUDSTONE, WACKESTONE, FLOATSTONE, and RUDSTONE</p> <p>Major Lithology: Section 1, 0–6 cm contains MUDSTONE-WACKESTONE, white (10YR 8/1), with gastropods. In Section 6–44 cm, white to very pale brown (10YR 8/2 to 10YR 8/3), WACKESTONE-FLOATSTONE, with rudist (caprinids) fragments and small gastropods. In Section 1, 44 cm to Section 2, 6 cm, RUDSTONE-FLOATSTONE, white to very pale brown (10YR 8/2 to 10YR 8/3), with cm-scale cavities, some of which is filled with white (10YR 8/1) MUDSTONE. Section 2, 6–53 cm contains WACKESTONE, white to very pale brown (10YR 8/2 to 10YR 8/3), with blackened angular granules, rudist shells with white micritic fringes and small gastropods. In Section 2, 53–60 cm, MUDSTONE-WACKESTONE, white to very pale brown (10YR 8/2 to 10YR 8/3), with benthic foraminifers (rare) and burrows (?) infilled with light gray (10YR 7/1) MUDSTONE.</p>
2	W W	2		Φ	~			



SITE 867 HOLE B CORE 9R

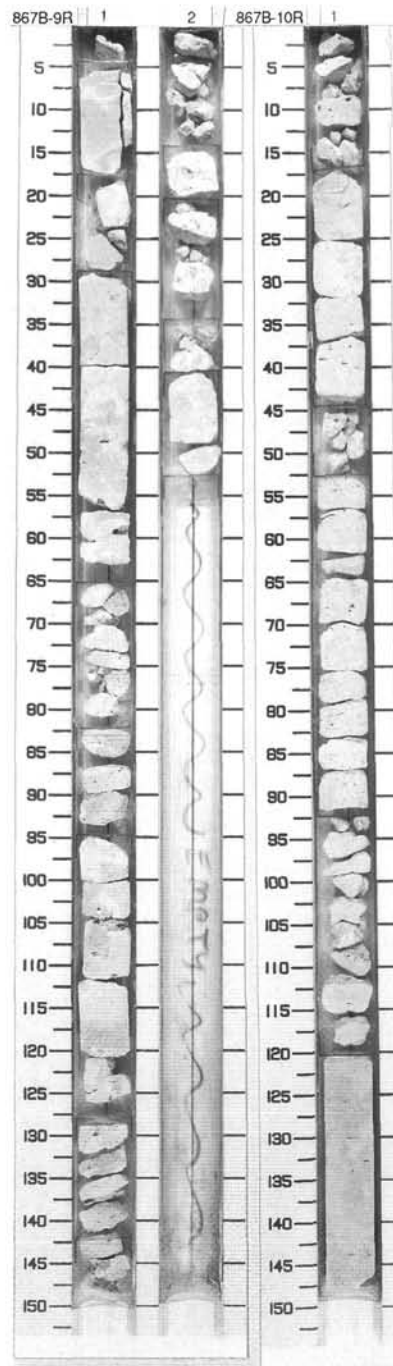
CORED 61.8 - 66.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure and Components	Disturb	Sample	Color	Description
1	W W	1	Albian	8 6		TP	10YR 8/2	<p>WACKESTONE and FLOATSTONE-RUDSTONE</p> <p>Major Lithologies: WACKESTONE, Section 1, 0–150 cm, white (10YR 8/2) with light-colored (5YR 8/2) and very pale brown (10YR 8/3) patches, and a mottled appearance, resulting from bioturbation or water-escape features. This WACKESTONE contains abundant dark gray (10YR 4/1) intraclasts of MUDSTONE, numerous thin bivalve shells, and gastropods with moldic porosity. Section 1, 56–63 cm exhibits an example of vadose-zone cement, which has a slope of 4 degrees. A speleothem exists at the vadose phreatic boundary. FLOATSTONE-RUDSTONE, white (10YR 8/1) with abundant mollusc and bivalve debris comprises Section 2. Moldic porosity developed around the original aragonitic shell fragments, many of which contain bored cavities with MUDSTONE fills. MUDSTONE is also present as a veneer on some of the large bioclasts.</p>
2	F F F F F F F F F F F F F F F	2					10YR 8/1	

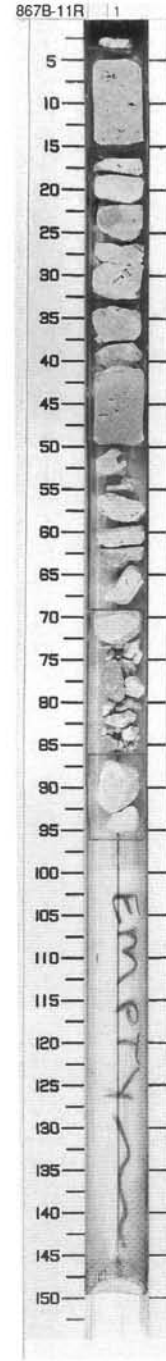
SITE 867 HOLE B CORE 10R

CORED 66.4 - 68.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure and Components	Disturb	Sample	Color	Description
1	P M M M M M M M M M M M M M M M	1	Albian	8 8 8		TP	10YR 8/1 10YR 8/2	<p>PACKSTONE and MUDSTONE</p> <p>Major Lithologies: PACKSTONE, white (10YR 8/1), with abundant shell debris, dark gray intraclasts, internal molds of borings, and moldic porosity produced by dissolution of gastropod shells. The 17–19 cm interval consists of coral. MUDSTONE (in 93–150 cm), white, (10YR 8/2) contains sparse fauna including bivalves, dasycladacean algae, and benthic foraminifers.</p>



Meter	Graphic Lith.	Section	Age	Structure and Components	Disturb	Sample	Color	Description
		1	Albian			P	10YR 8/2 To 10YR 8/3	<p>WACKESTONE and MUDSTONE</p> <p>Major Lithology: WACKESTONE (0-49 cm), white to very pale brown (10YR 8/2 to 10YR 8/3), with numerous dark gray (10YR 4/1) intraclasts, gastropods (as molds), and benthic foraminifers (miliolids). Many small thin-shelled bivalves. The interval 49-96 cm contains MUDSTONE, very pale brown (10YR 8/3) with very small bioclasts and benthic foraminifers (miliolids).</p>



SITE 867 HOLE B CORE 13R

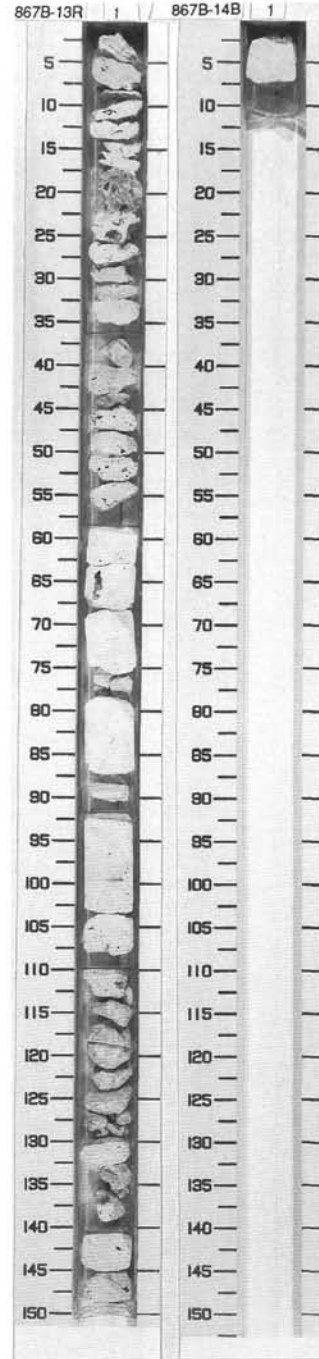
CORED 75.3 - 76.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure and Components	Disturb	Sample	Color	Description
1	W W	1	Albian	⊕ B C ↑ F		P	10YR 8/2	<p>MUDSTONE and WACKESTONE</p> <p>Major Lithology: WACKESTONE (0-59 cm), white (10YR 8/2), with abundant bivalve and rudist fragments, moldic porosity of gastropod fragments infilled with sparry calcite and coral (20-23 cm). Some speleothem fillings indicate vadose zones. MUDSTONE (59-89 cm), white (10YR 8/2), with moldic porosity of gastropod shells and speleothem filling. The interval 89-150 cm contains WACKESTONE, white (10YR 8/2), with dark gray intraclasts and rudist fragments and fining up over approximate 1m.</p>

SITE 867 HOLE B CORE 14B

CORED 76.8 - 76.8 mbsf

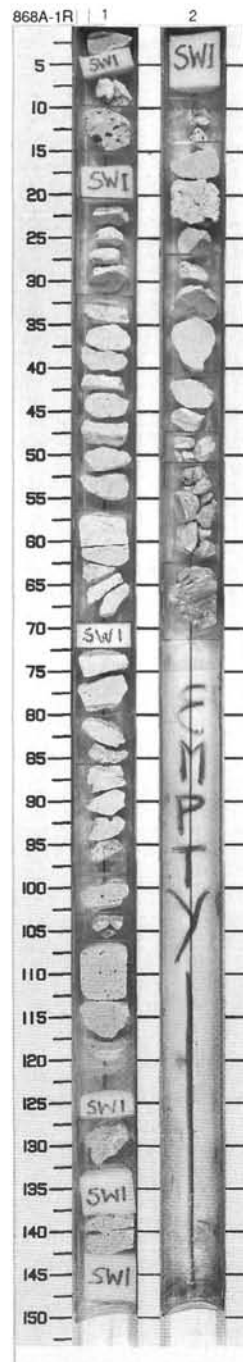
Meter	Graphic Lith.	Section	Age	Structure and Components	Disturb	Sample	Color	Description
1	P W W W	1	Albian	⊕		P	2.5Y N8/0	<p>WACKESTONE-PACKSTONE</p> <p>Major Lithology: WACKESTONE-PACKSTONE, white (2.5 Y 8/0), with numerous bivalve clasts and angular black pebbles. Minor vuggy porosity is partially filled with internal sediment and coarse calcite spar.</p>



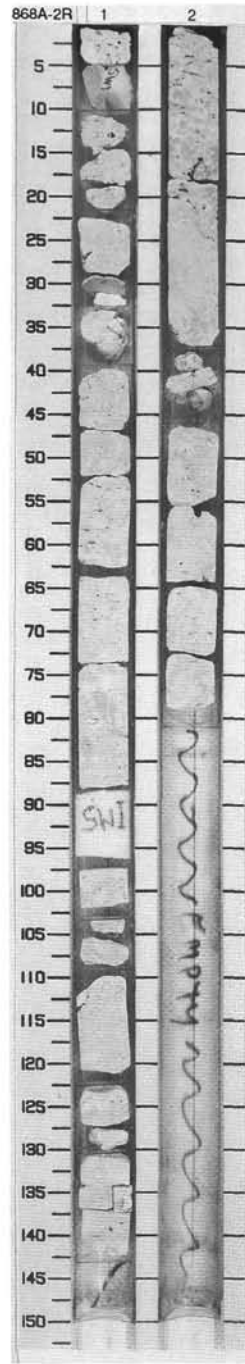
SITE 868 HOLE A CORE 1R

CORED 0.0 - 8.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure and Components	Disturb	Sample	Color	Description
1	G G R R G G R R G G R R G G R R G G R R G G R R G G R R G G R R G G R R G G R R	1	Albian	7 6 8 Ⓚ		T T P P	10YR 8/2	<p>GRAINSTONE-RUDSTONE, MUDSTONE, PACKSTONE-GRAINSTONE, and FLOATSTONE</p> <p>Major Lithologies: Section 1, 0 cm to Section 2, 27 cm contains GRAINSTONE-RUDSTONE, white (10YR 8/2) composed almost entirely of rudist debris. Some local FLOATSTONE is present and contains gastropods, calcareous algae, oncoids, and micritized peloids. Keystone vugs occur in Section 1, 107-113 cm and 137-145 cm. In Section 2, 27-51 cm, there is an interval of MUDSTONE containing small gastropods and ostracods, as well as an internal cavity, filled with slightly darker sediment. Section 2, 51-62 cm contains PACKSTONE-GRAINSTONE with some partially filled cavities: Section 2, 62-70 cm comprises MUDSTONE with black pebbles, partly red-stained and containing cavities filled with banded red (10R 6/6) and white (10YR 8/2) MUDSTONE. In Section 2, 65-68 cm, there is speleothem development in the top of a cavity with a laminated crust in the base of void.</p>
2	M M M M M M M M M M M M M M M M	2		Ⓧ		T P		



Meter	Graphic Lith.	Section	Age	Structure and Components	Disturb	Sample	Color	Description
1	W P F F F W P F F F W P F F F W P F F F	1	Albian	∇		P P W	N9 To 10YR 8/2	WACKESTONE-PACKSTONE, FLOATSTONE, and BOUNDSTONE
2	W P F F F W P F F F W P F F F W P F F F B B B B B W P F F F W P F F F	2		∞		T T P		Major Lithologies: Discrete beds of WACKESTONE-PACKSTONE and FLOATSTONE, white (N9-10YR 8/2), with cm-scale fragments of rudist bivalves. Large caprinid shells occur in several places. Sclerosponge BOUNDSTONE intervals occur in Section 1, 47-53 cm and 77-90 cm, and in Section 2, 7-23 cm. Section 1, 55-75 cm contains abundant cm-scale requieinid rudist shells. Moldic and vuggy porosity are common throughout.
								Minor Lithology: Section 2, 62-70 cm comprises MUDSTONE, white (10YR 8/1), which forms 1-2 cm size rounded structures separated by vuggy granular boundaries. These may be burrow-structures.



SITE 868 HOLE A CORE 3R

CORED 11.1 - 13.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure and Components	Disturb	Sample	Color	Description
1	P P F F P P F F P P F F F F F F F F F F F F F F W W P P W W P P W W P P	1	Albian	δ		P	10YR 8/2 To 5YR 7/3 2.5YR 6/4 To 2.5YR 5/6	FLOATSTONE, PACKSTONE, and WACKESTONE Major Lithology: Section 1, 0-38 cm contains PACKSTONE-FLOATSTONE, white (10YR 8/2), with abundant rudist (caprinid) shells which have white micritic fringes and small mm-scale cavities with dog's tooth calcite. In Section 1, 38-47 cm, PACKSTONE, pink (5YR 7/3) with small angular bivalve shell fragments. Near the base of this interval is a cavity filled with grayish green MUDSTONE, with white calcitic lining. Section 1, 47-110 cm contains FLOATSTONE, light reddish brown (2.5YR 6/4) grading to red (2.5YR 5/6), with large caprinid shells. In the upper part of this horizon, these shells are dissolved and filled with several layers of pink to reddish brown MUDSTONE. In Section 1, 110-130 cm, WACKESTONE, red (2.5YR 5/6), with rounded small pebble-sized bivalve shells and black intraclasts. Section 2, 0-68 cm contains WACKESTONE-PACKSTONE, light red (10YR 6/6) grading to white (10YR 8/2) downward, with abundant bivalve shell fragments, some molds of gastropods and rudist shells and rare black pebble intraclasts. Rare moldic porosity is developed, and shows speleothems. The original texture of the sediment may have been a shell debris-rich PACKSTONE but with dissolution of aragonitic debris, the secondary cement (red) gives the appearance of a WACKESTONE.
2		2				P	10YR 5/6 To 10YR 8/2	

