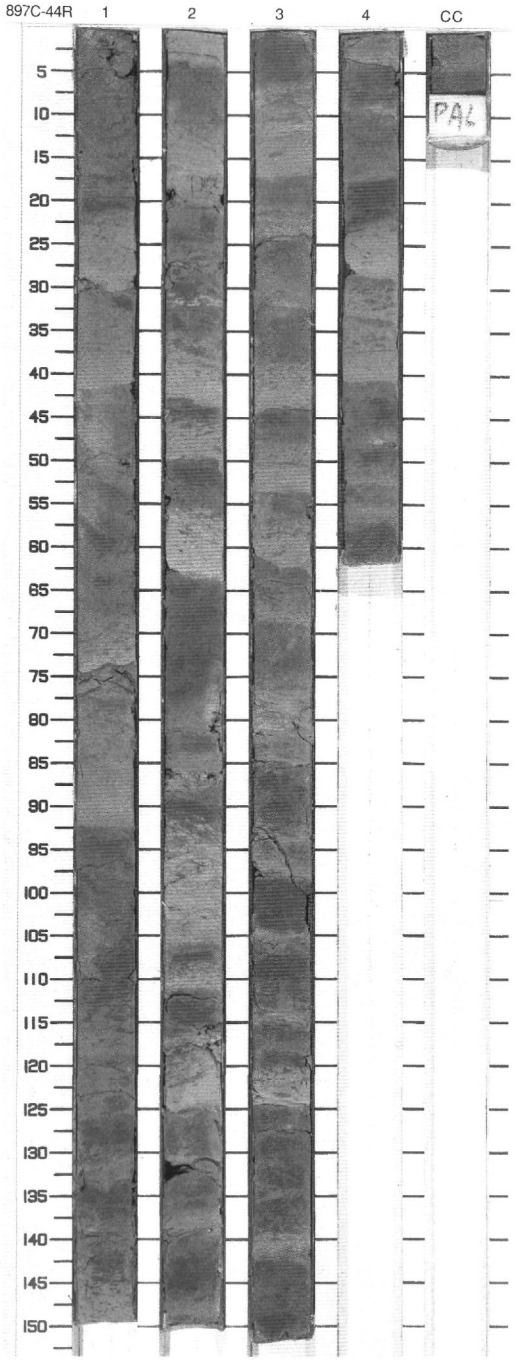
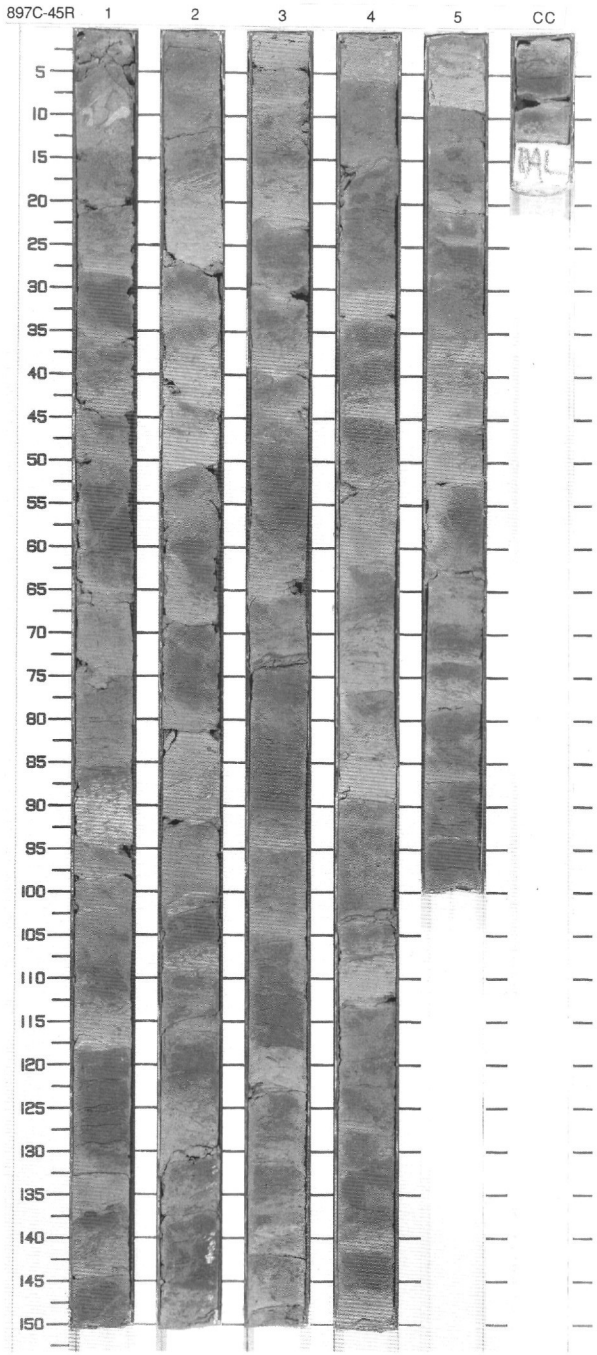
SITE 897 HOLE C CORE 44R CORED 465.3 - 475.0 mbsf

| Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
|---|---|---|---|---|---|---|---|---|
| 1–5 | | 1, 2, 3, 4, CC | late Oligocene; ?–? ; early Oligocene | | | P, P, S, P, S, P, S, P, M | 5GY 4/1 To 5GY 6/1 | CLAYEY SILTSTONE and CLAYSTONE<br><br>Major Lithologies:<br>Dark greenish gray (5G 4/1) SILTY CLAYSTONE and greenish gray (5GY 6/1) CLAYEY SILTSTONE.<br><br>Minor Lithology:<br>Thin laminae of dark greenish gray (5GY 4/1) SILTSTONE constitute less than 10% of the core. Light olive gray (5Y 6/1) NANNOFOSSIL CLAYSTONE occurs in Section 3, 123–125 cm.<br><br>General Description:<br>The core consists of alternating medium-bedded darkening up intervals grading from greenish gray (5GY 6/1) to dark greenish gray (5G 4/1), the bases of which are gradational due to burrowing. The tops are sharp, probably accentuated by drilling disturbance. Some layers show mm- to cm-thick laminae of CALCAREOUS SANDY SILTSTONE. A total of 13 layers (8–40 cm thick) with basal sandy laminae are visible. Red grayish purple (5RP4/1) thinly laminated bands are present in the sand laminae. Ichnofauna consists of Planolites and Chondrites plus several unnamed burrow types. |



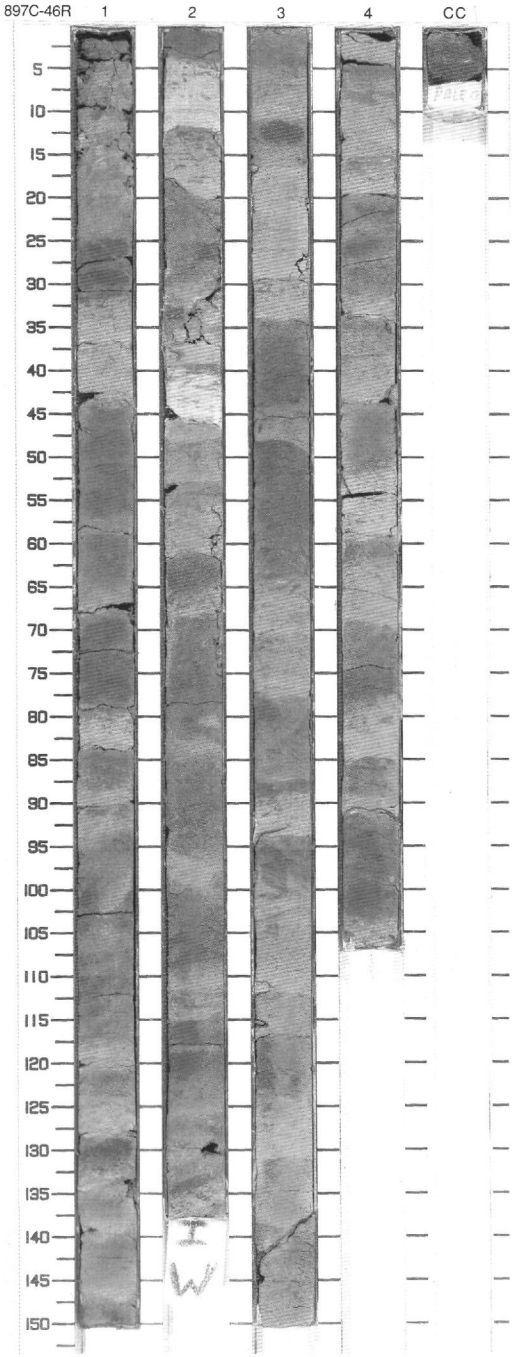
SITE 897 HOLE C CORE 45R CORED 475.0 - 484.6 mbsf

| Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
|---|---|---|---|---|---|---|---|---|
| 1–7 | | 1, 2, 3, 4, 5, CC | Oligocene - Middle Eocene | | | P, S, S, S P, S P, P, P M | 5GY 6/1 To 5G 6/1 | SILTY CLAYSTONE<br><br>Major Lithology:<br>Dark greenish gray (5GY 4/1) SILTY CLAYSTONE.<br><br>Minor Lithologies:<br>Greenish gray (5GY 6/1) NANNOFOSSIL CLAYSTONE and medium gray (N5) to greenish gray (5GY 6/1) SANDY SILTY CLAYSTONE, which comprises about 1% of the core and is laminated.<br><br>General Description:<br>Medium color bedded sequences, less than 5 to 30 cm thick, are built by alternations of greenish gray (5GY 6/1) NANNOFOSSIL CLAYSTONE and dark greenish gray (5GY 4/1) SILTY CLAYSTONE. The single sequence consists of SANDY SILTY CLAYSTONE at base, overlying NANNOFOSSIL CLAYSTONE and SILTY CLAYSTONE on top. A sharp contact exists between the top and base of the following sequence. SILTY CLAYSTONE is more intensely bioturbated than other lithologies. Chondrites and Planolites are common. |



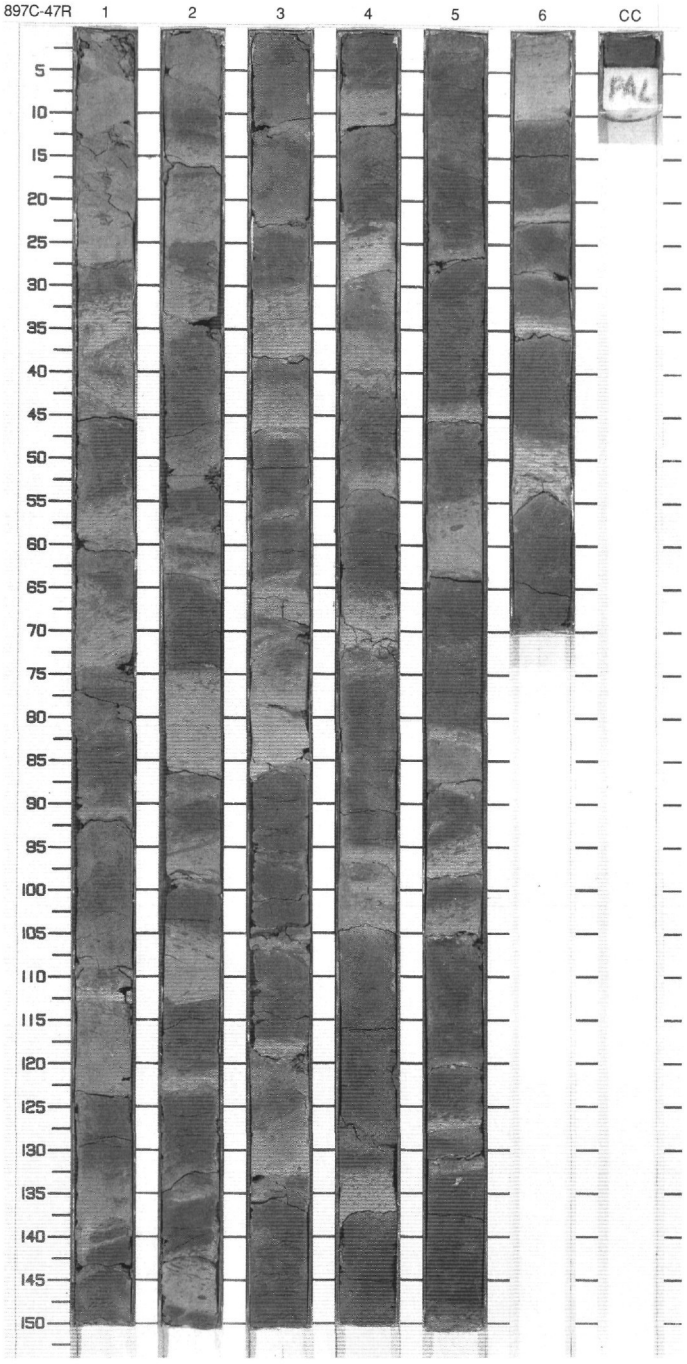
SITE 897 HOLE C CORE 46R CORED 484.6 - 494.2 mbsf

| Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
|---|---|---|---|---|---|---|---|---|
| 1–5 | | 1, 2, 3, 4, CC | early Oligocene | | W | P, S S S, P, I, P, S P P, M | 5Y 4/1 To 5GY 5/1; 5Y 4/1 To 5GY 5/1; 5GY 6/1 To 5GY 5/1 | SILTY CLAYSTONE<br><br>Major Lithology:<br>Olive gray (5Y 4/1) SILTY CLAYSTONE forms between 50% and 70% of 149-897C-46R-1 to 149-897C-46R-3, but only 10% of 149-897C-46R-4.<br><br>Minor Lithologies:<br>Greenish gray (5GY 5/1) NANNOFOSSIL FORAM-CHALK forms around 25% of the core. Greenish gray (5G 6/1) SILTY CLAYSTONE is barren of nannofossils. Light gray (N6) NANNOFOSSIL CLAYSTONE forms thin (2–5 cm) planar-laminated beds in 149-897C-46R-2 at 9–12 cm, 44–47 cm and 130–135 cm, and in 149-897C-46R-3 at 80–82 cm.<br><br>General Description:<br>The major and minor lithologies are arranged in a series of darkening up units with sharp tops. Most of these commence with NANNOFOSSIL SILTY CLAYSTONES, and pass up into either SILTY CLAYSTONES or NANNOFOSSIL CLAYSTONES. The intervals range in thickness between 10 and 30 cm; the occurrences of NANNOFOSSIL SILTY CLAYSTONE and SILTY CLAYSTONE are at the bases of the intervals. Trace fossils are most clearly seen in the NANNOFOSSIL CLAYSTONES and include Planolites, Chrondrites, and Zoophycos. |

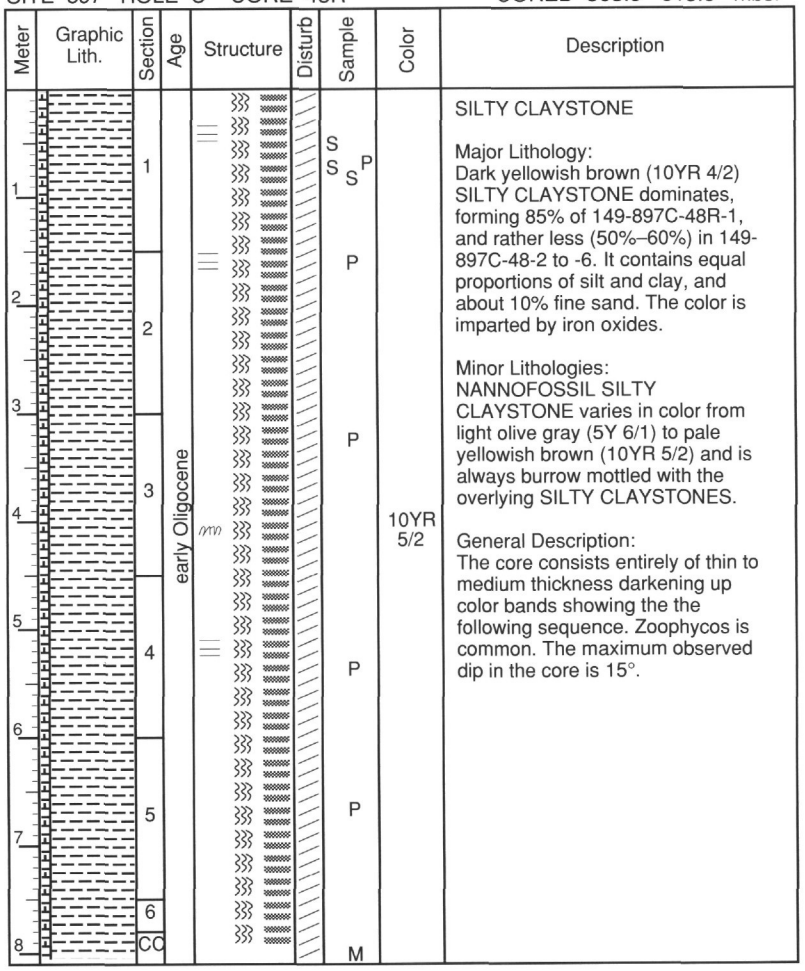


SITE 897 HOLE C CORE 47R CORED 494.2 - 503.9 mbsf

| Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
|---|---|---|---|---|---|---|---|---|
| 1–8 | | 1–6, CC | early Oligocene | | | P, S, M | 5G 6/1 To 5GY 4/1; 5G 6/1 To 5YR 4/4 | SILTY CLAYSTONE<br><br>Major Lithology:<br>SILTY CLAYSTONE varies from dark greenish gray (5GY 4/1) to moderate brown (5YR 4/4) and color layers range from 1 to 20 cm thickness. A gradational change from dark greenish gray SILTY CLAYSTONE to moderate brown SILTY CLAYSTONE occurs in 149-897C-47R-3. In 149-897C-47R-4 to -6 Sections moderate brown SILTY CLAYSTONE dominates.<br><br>Minor Lithologies:<br>NANNOFOSSIL CLAYSTONE and the CALCAREOUS SILTY SAND are both greenish gray (5G 6/1). Layers of NANNOFOSSIL CLAYSTONE range up to 12 cm thickness and contain Chondrites, Planolites, and Zoophycos. Laminated CALCAREOUS SILTY SAND does not exceed 1% of any section and is generally less than 1 cm thick.<br><br>General Description:<br>Color banded sequences range from about 5 to 30 cm. Sequences consist of NANNOFOSSIL CLAYSTONE overlain by SILTY CLAYSTONE. CALCAREOUS SILTY SAND may be present at the base of the sequence. Beds dip about 15 degrees. Due to expansive clays core expansion is common. |



SITE 897 HOLE C CORE 48R CORED 503.9 - 513.6 mbsf



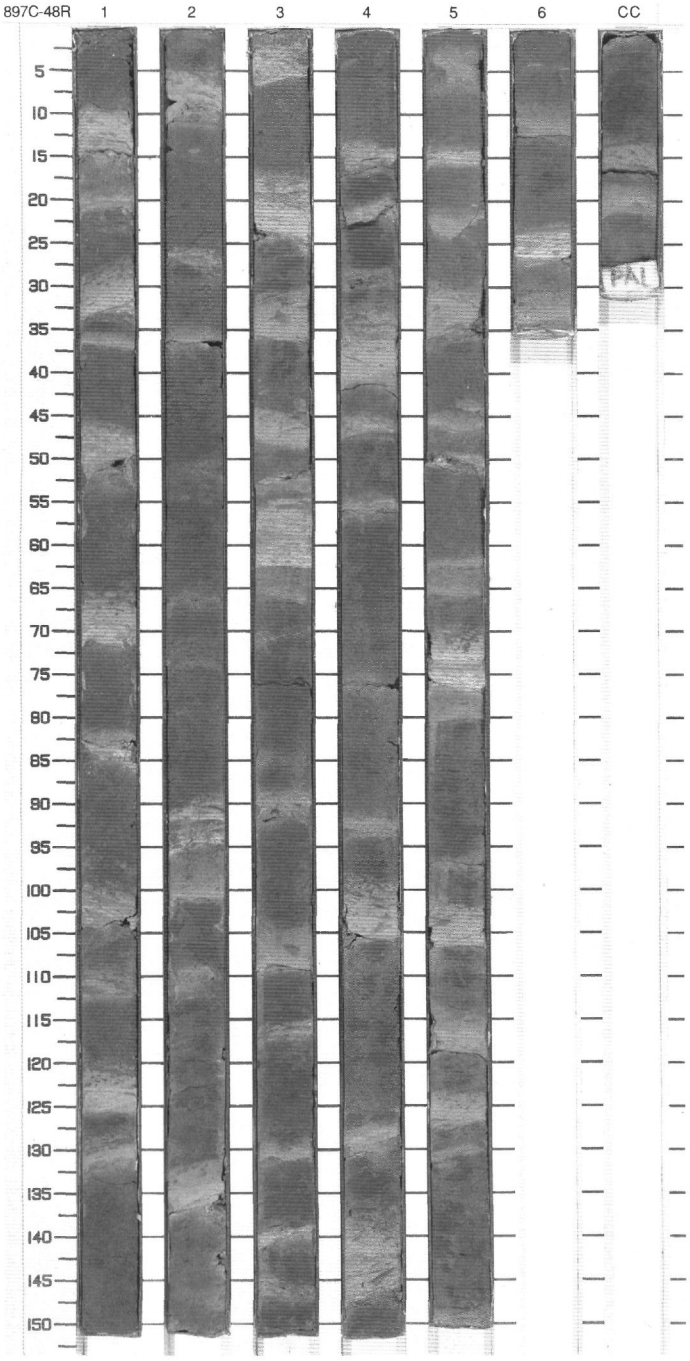

## Description

SILTY CLAYSTONE

Major Lithology:
Dark yellowish brown (10YR 4/2) SILTY CLAYSTONE dominates, forming 85% of 149-897C-48R-1, and rather less (50%–60%) in 149-897C-48-2 to -6. It contains equal proportions of silt and clay, and about 10% fine sand. The color is imparted by iron oxides.

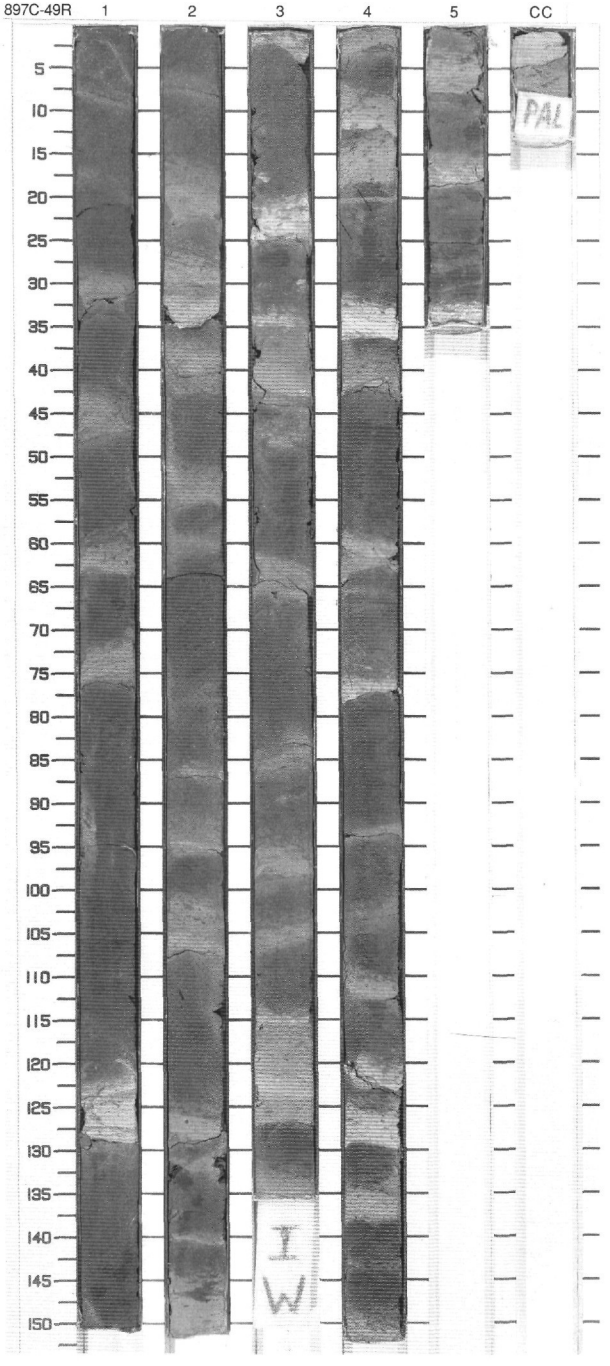
Minor Lithologies:
NANNOFOSSIL SILTY CLAYSTONE varies in color from light olive gray (5Y 6/1) to pale yellowish brown (10YR 5/2) and is always burrow mottled with the overlying SILTY CLAYSTONES.

General Description:
The core consists entirely of thin to medium thickness darkening up color bands showing the the following sequence. Zoophycos is common. The maximum observed dip in the core is 15°.



SITE 897 HOLE C CORE 49R CORED 513.6 - 523.2 mbsf

| Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
|---|---|---|---|---|---|---|---|---|
| 1–6 | | 1, 2, 3, 4, 5, CC | early Oligocene | | | P P P P P M | 10YR 4/2 To 5GY 6/1 | SILTY CLAYSTONE<br><br>Major Lithology:<br>Dark yellowish brown (10YR 4/2) to pale yellowish brown (10YR 5/2) SILTY CLAYSTONE comprises 75% of the core. Greenish gray (5GY 5/1) SILTY CLAYSTONE makes up 15% of the core.<br><br>Minor Lithology:<br>Light olive (5Y 6/1) NANNOFOSSIL SILTY CLAYSTONE is usually bioturbated. Chondrites and Planolites are common trace fossils, Zoophycos occur in places. NANNOFOSSIL CLAYSTONE does not exceed 10% of the core.<br><br>General Description:<br>Banded sequences, from about 5 to 50 cm thickness, are formed by progressive change upwards from NANNOFOSSIL CLAYSTONE to pale yellowish brown and dark yellowish brown SILTY CLAYSTONE to greenish gray SILTY CLAYSTONE. NANNOFOSSIL CLAYSTONE is not always represented in the single sequence. |



SITE 897 HOLE C CORE 50R CORED 523.2 - 532.8 mbsf

| Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color |
|---|---|---|---|---|---|---|---|
| 1–4 | | 1, 2, 3, 4, CC | early Oligocene (??) to late Eocene | | | P, P, P, P, M | 5GY 8/1 To 10YR 6/1 |

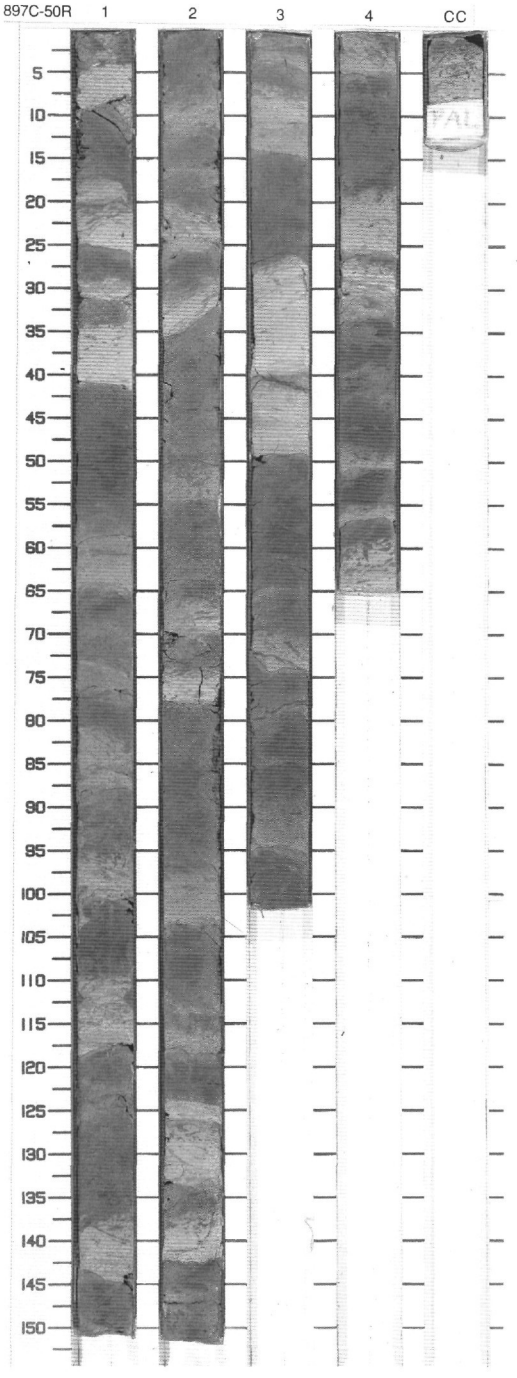
Description

NANNOFOSSIL CLAYSTONE and SILTY CLAYSTONE

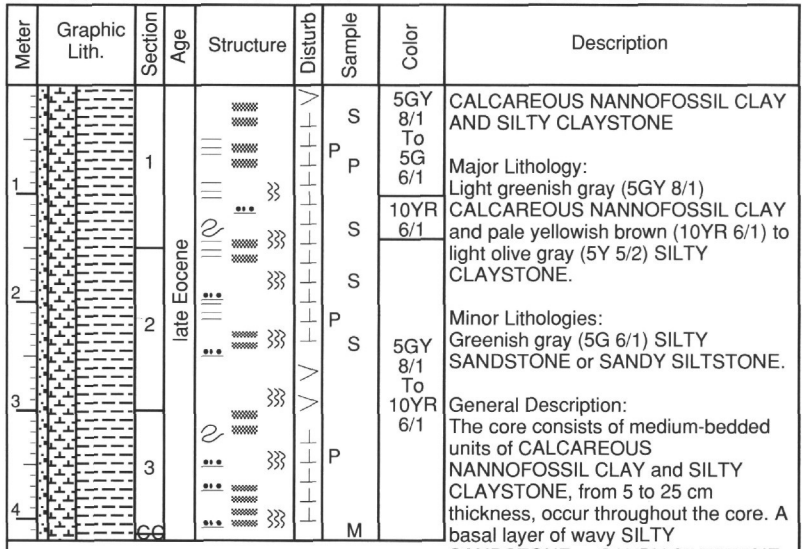
Major Lithologies:
Light greenish gray (5GY 8/1) NANNOFOSSIL CLAYSTONE to pale yellowish (10YR 6/1) SILTY CLAYSTONE.

Minor Lithology:
Greenish gray (5G 6/1) SILTY SANDSTONE or SANDY SILTSTONE and light olive gray (5Y 5/2) SILTY CLAYSTONE or CLAYEY SILTSTONE.

General Description:
The core shows medium-bedded units with characteristic color changes from the basal greenish gray (5G 6/1) SILTY SANDSTONE to light greenish gray (5GY 8/1) SILTY CLAYSTONE to pale yellowish brown (10YR 6/1) at the top of the single sequence Above the basal layer, there mostly pebble "mud" para-conglomerate visible. The ichnofauna includes Zoophycus, Planolites, and undefined burrows.



SITE 897 HOLE C CORE 51R CORED 532.8 - 542.4 mbsf

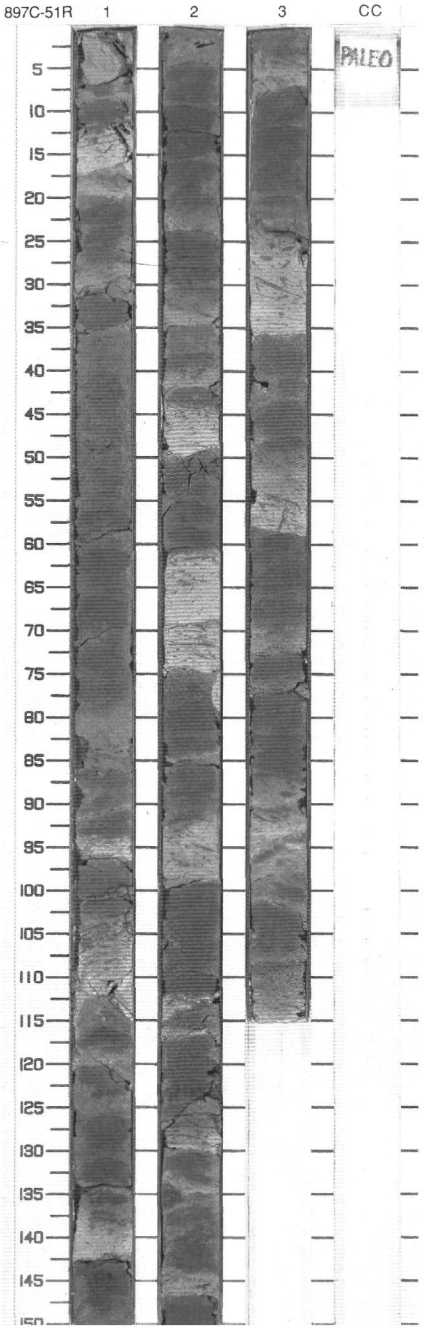



CALCAREOUS NANNOFOSSIL CLAY AND SILTY CLAYSTONE

Major Lithology:
Light greenish gray (5GY 8/1) CALCAREOUS NANNOFOSSIL CLAY and pale yellowish brown (10YR 6/1) to light olive gray (5Y 5/2) SILTY CLAYSTONE.

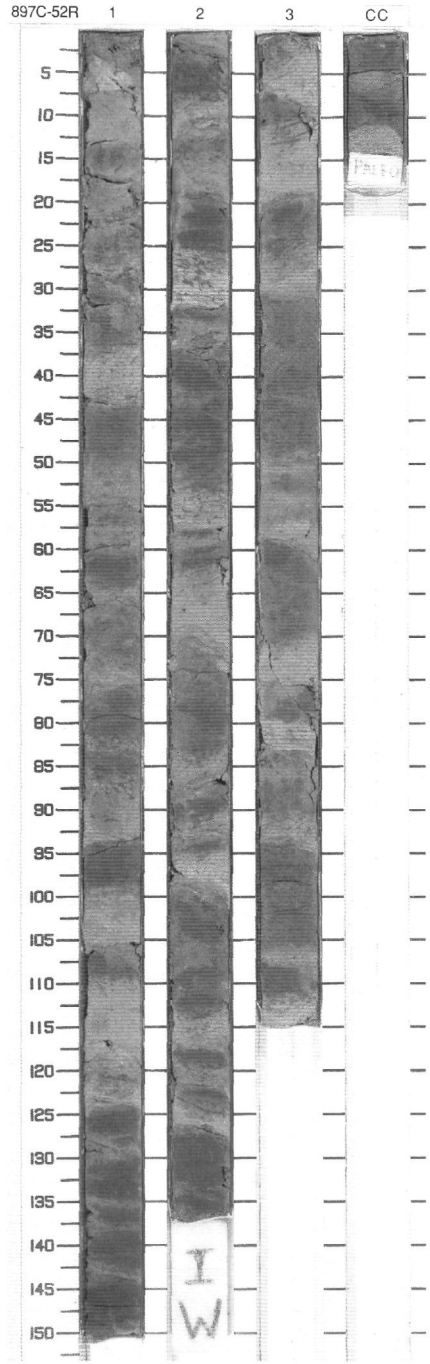
Minor Lithologies:
Greenish gray (5G 6/1) SILTY SANDSTONE or SANDY SILTSTONE.

General Description:
The core consists of medium-bedded units of CALCAREOUS NANNOFOSSIL CLAY and SILTY CLAYSTONE, from 5 to 25 cm thickness, occur throughout the core. A basal layer of wavy SILTY SANDSTONE or SANDY SILTSTONE silt with parallel or convolute lamination is overlain by intensively bioturbated CALCAREOUS NANNOFOSSIL CLAYSTONE and a gradational transition zone with slight color change to the SILTY CLAYSTONE at top of each sequence. Orientation of lamination in the basal layer suggests slump structures. Burrowing is pervasive and represents opportunistic colonization of benthic organisms.



SITE 897 HOLE C CORE 52R CORED 542.4 - 552.1 mbsf

| Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
|---|---|---|---|---|---|---|---|---|
| 1–4 | | 1, 2, 3, CC | late Eocene | | | S, P, S, P, I, S, S, M | 5Y 5/2 To 5YR 6/1 | SILTY CLAYSTONE AND CLAYEY SILT<br><br>Major Lithologies:<br>Pale yellowish brown (10YR 6/1) to light olive gray (5Y 5/2) SILTY CLAYSTONE.<br><br>Minor Lithology:<br>Greenish gray (5G 6/1) and light greenish gray (5GY 8/1) CALCAREOUS NANNOFOSSIL CLAYSTONE and dark gray (5B 5/1) SILTSTONE.<br><br>*General Description:*<br>The core consist of several upward-darkening units, 5 to 15 cm thick, which show characteristic color variation from lighter color at base to darker color on top of the single unit. The basal layer is formed by 2–4 cm thick SILTSTONE, passing upwards to CALCAREOUS NANNOFOSSIL CLAYSTONE. The SILTSTONE shows cross lamination, convolute laminae, and water scape structures. |



SITE 897 HOLE C CORE 53R CORED 552.1 - 561.8 mbsf

| Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
|---|---|---|---|---|---|---|---|---|
| 1<br>2<br>3 | | 1<br>2<br>3<br>CC | late Eocene<br>??<br>middle Eocene | | | S<br>S<br>P<br>P<br>S<br>D<br>S<br>P<br>P<br>D<br>M | 5G 5/2 To 5G 8/1 | CALCAREOUS SILTSTONE and CALCAREOUS CLAYSTONE<br><br>Major Lithologies:<br>Greenish gray (5G 5/2) CLAYEY SILTSTONE and light greenish gray (5G 8/1) CALCAREOUS CLAYSTONE.<br><br>Minor Lithologies:<br>Greenish gray (5G 6/1) CALCAREOUS CLAYEY SILTSTONE and greenish black (5G 2/1) CLAYEY SANDSTONE.<br><br>General Description:<br>Core consist of 21 intervals 10–30 cm thick, with lighter color at base and darker at top of each sequence. The unitary sequence is formed by basal CLAYEY SANDSTONE or CALCAREOUS CLAYEY SILTSTONE. The basal contact is sharp and grades upward with cross lamination. Bioturbation is common in the upper parts of the sequence. |