

Core ID: 13BIM05-01

Core ID: 13BIM05-01

Latitude: 30.01007 N      Elevation: 0.210 m  
 Longitude: -88.84541 W      Core Length: 20.0 cm  
 Location: 25 m on the sound side of the berm

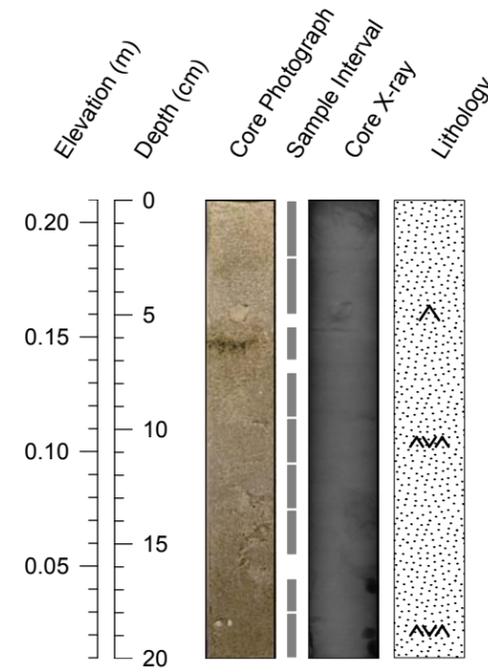
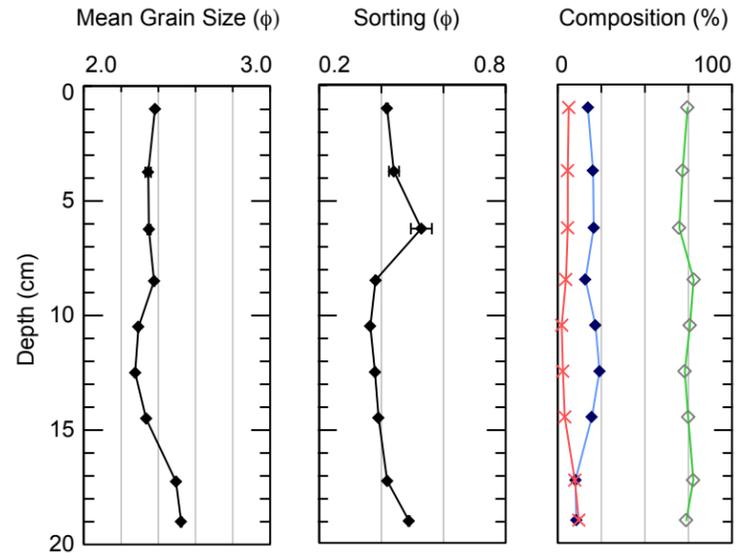
**EXPLANATION**

**Sediment composition**

- ◆ Medium and coarse sand
- ◇ Fine sand
- × Very fine sand

**Lithology**

- ▨ Sand
- ^ Shell fragments



**Lithologic Description**

0 - 20.0 cm: SAND, olive-brown, well-sorted, fine-grained, massive quartz sand with a large shell fragment at 5.0 cm and scattered, smaller shell fragments from 7.0 to 20.0 cm; a thin, sandy, organic horizon just below 6.0 cm is somewhat deformed from coring (concave down) with disseminated mica flakes

Core ID: 13BIM05-02

Core ID: 13BIM05-02

Latitude: 30.01033 N Elevation: 0.669 m

Longitude: -88.84520 W Core Length: 27.5 cm

Location: crest of emergent berm overwash

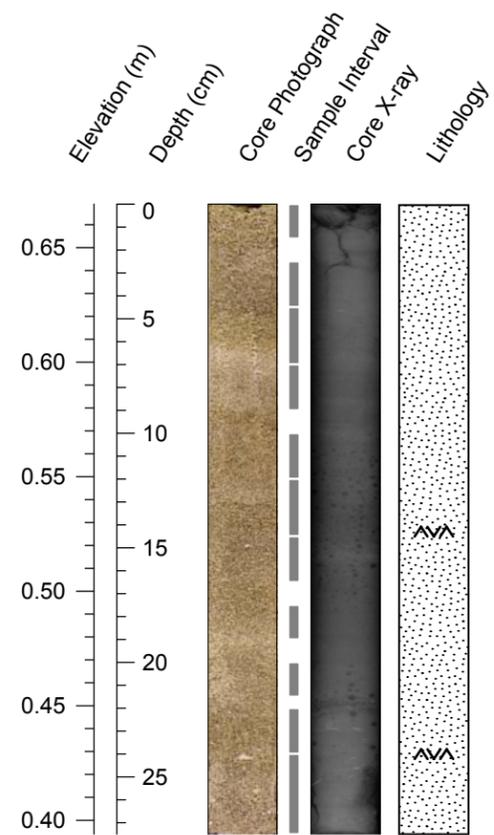
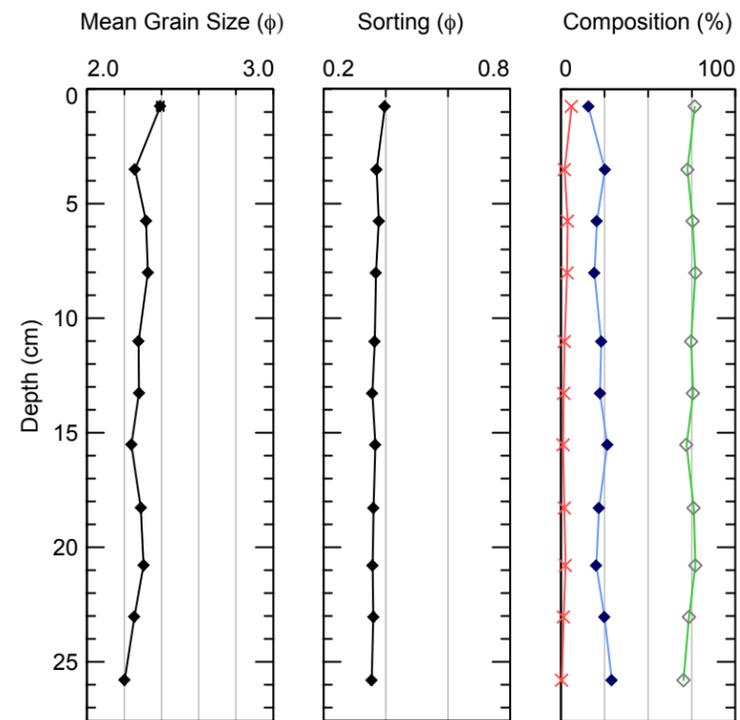
**EXPLANATION**

Sediment composition

- Medium and coarse sand
- Fine sand
- Very fine sand

Lithology

- Sand
- Shell fragments



Lithologic Description

0 - 27.5 cm: SAND, olive-brown, well-sorted, fine-grained, massive quartz sand with occasional small shell fragments and very small mica flakes

Core ID: 13BIM05-03

Core ID: 13BIM05-03

Latitude: 30.01033 N

Elevation: -0.119 m

Longitude: -88.84393 W

Core Length: 26.5 cm

Location: T1 (surf)

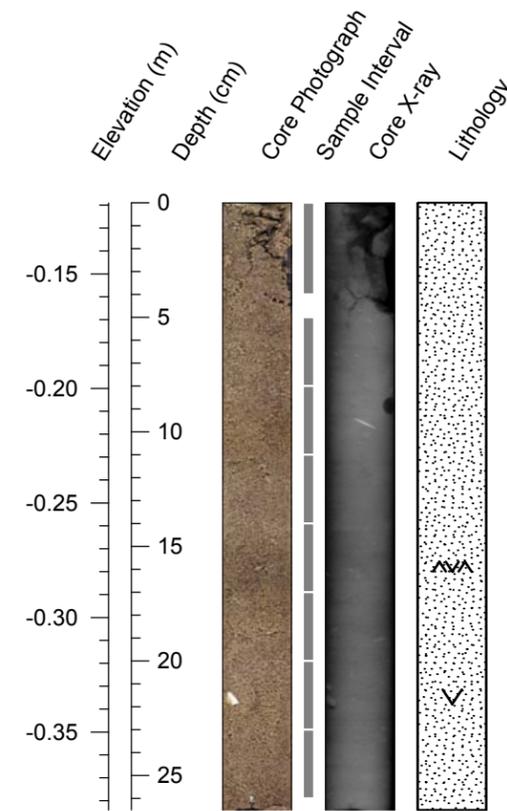
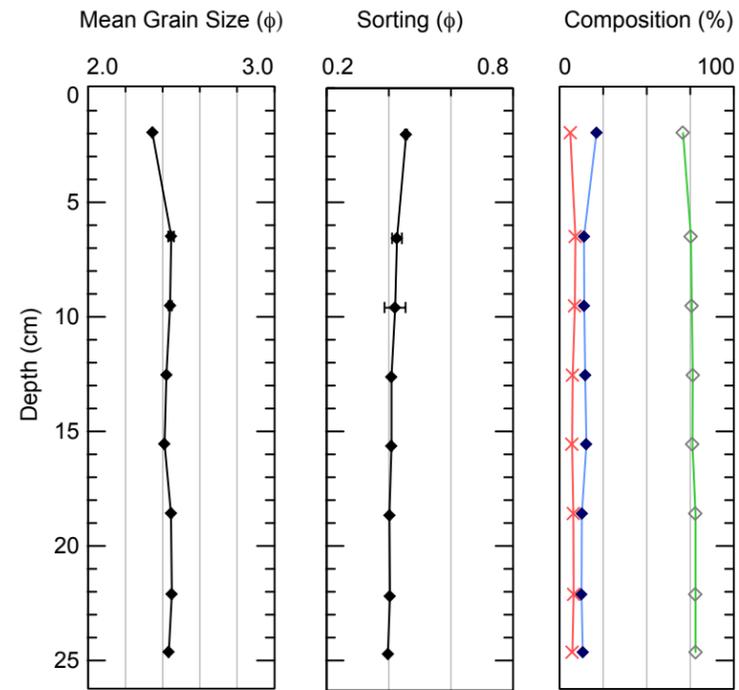
**EXPLANATION**

**Sediment composition**

- Medium and coarse sand
- Fine sand
- Very fine sand

**Lithology**

- Sand
- Shell fragments



Lithologic Description

0 - 26.5 cm: SAND, olive-brown, well-sorted, fine-grained, massive quartz sand with scattered shell fragments from 16.0 to 17.5 cm, very small mica flakes and a shell fragment at 21.5 cm

Core ID: 13BIM05-04

Core ID: 13BIM05-04

Latitude: 30.01030 N

Elevation: 0.034 m

Longitude: -88.84421 W

Core Length: 22.5 cm

Location: T1 (surf)

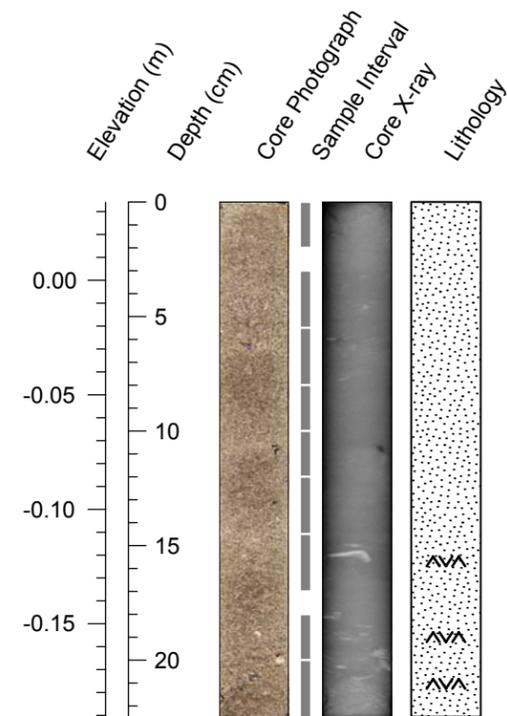
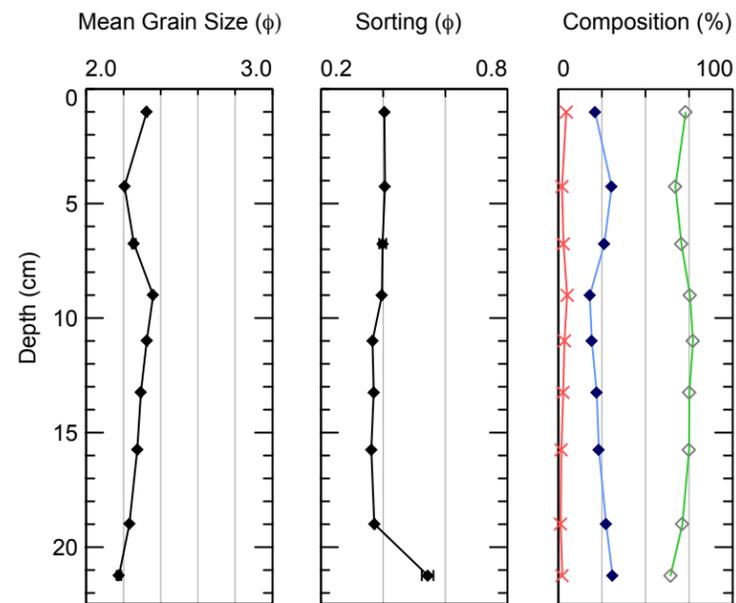
**EXPLANATION**

Sediment composition

- Medium and coarse sand
- Fine sand
- Very fine sand

Lithology

- Sand
- Shell fragments



Lithologic Description

0 - 22.5 cm: SAND, olive-brown, well-sorted, fine-grained, massive, clean quartz sand with moderate disseminated shell hash from 18.5 to 22.5 cm and scattered, small mica flakes

Core ID: 13BIM05-05

Core ID: 13BIM05-05

Latitude: 30.01012 N

Elevation: 0.161 m

Longitude: -88.84435 W

Core Length: 26.0 cm

Location: T1 (shoreface)

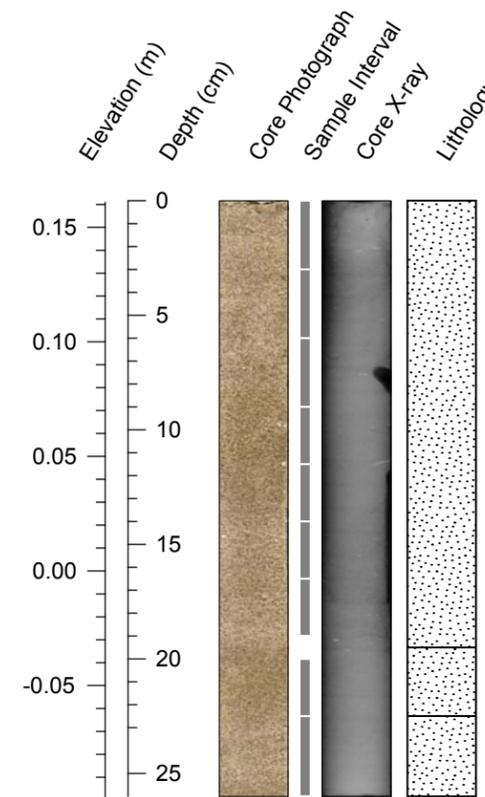
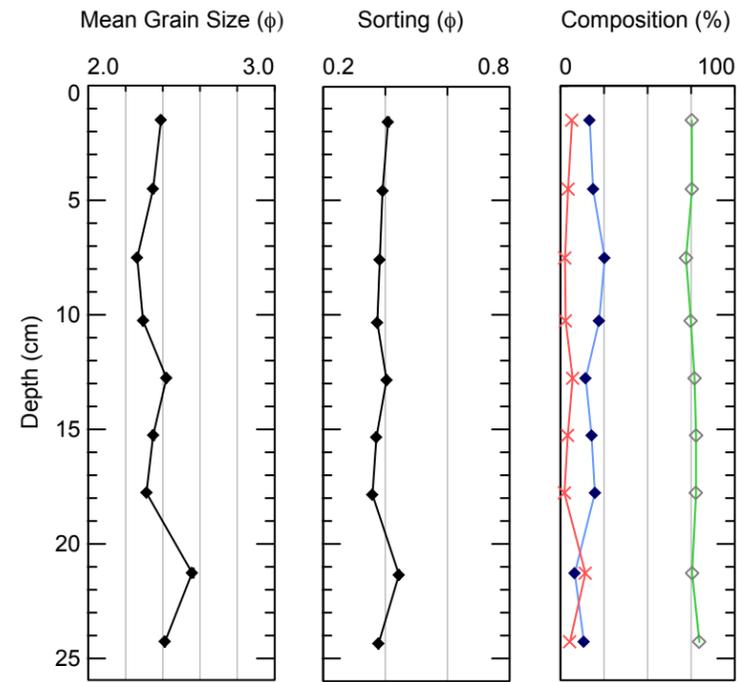
**EXPLANATION**

**Sediment composition**

- ◆ Medium and coarse sand
- ◇ Fine sand
- × Very fine sand

**Lithology**

- ▨ Sand



**Lithologic Description**

0 - 19.5 cm: SAND, olive-brown, well-sorted, fine-grained, massive quartz sand with occasional, small shell fragments

19.5 - 22.5 cm: SAND, olive-brown, well-sorted, fine-grained, massive quartz sand with disseminated, small mica flakes

22.5 - 26.0 cm: SAND, olive brown, well-sorted, fine-grained, massive quartz sand

Core ID: 13BIM05-11

Core ID: 13BIM05-11

Latitude: 29.95092 N      Elevation: 0.683 m  
 Longitude: -88.82381 W      Core Length: 37.5 cm  
 Location: T5 (sound side)

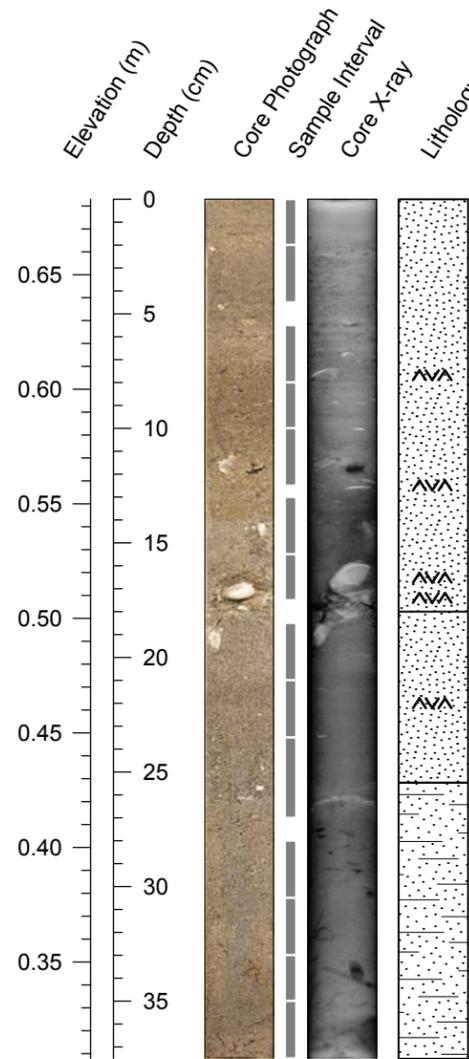
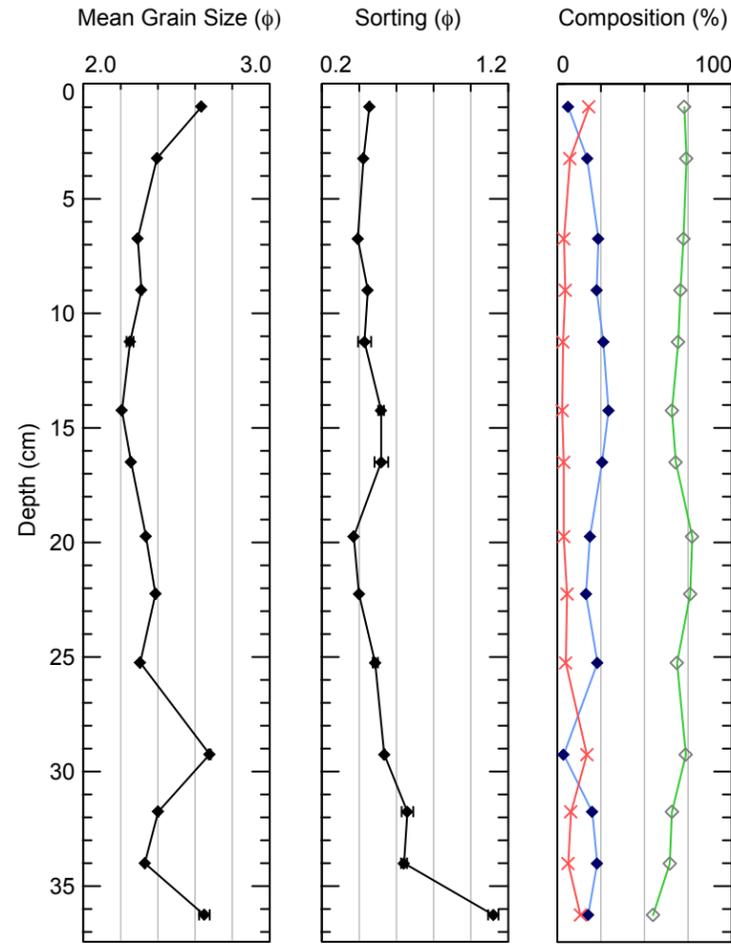
**EXPLANATION**

**Sediment composition**

- ◆ Medium and coarse sand
- ◇ Fine sand
- × Very fine sand

**Lithology**

- ▒ Sand
- ▒ Muddy sand
- ∩∩∩ Shell fragments



**Lithologic Description**

0 - 19.5 cm: SAND, olive-brown, well-sorted, fine-grained, massive quartz sand with moderate disseminated shell fragments and a dense shell-hash deposit from 16.0 to 18.0 cm

18.0 - 25.5 cm: SAND, brownish-gray, well-sorted, fine-grained, massive quartz sand with minimal disseminated shell fragments

25.5 - 37.5 cm: MUDDY SAND, yellowish-brown, well-sorted, fine-grained, massive muddy sand with small, degraded, root fibers throughout

Core ID: 13BIM05-12

Core ID: 13BIM05-12

Latitude: 29.95095 N

Elevation: 0.751 m

Longitude: -88.82295 W

Core Length: 19.5 cm

Location: T5 (shoreface)

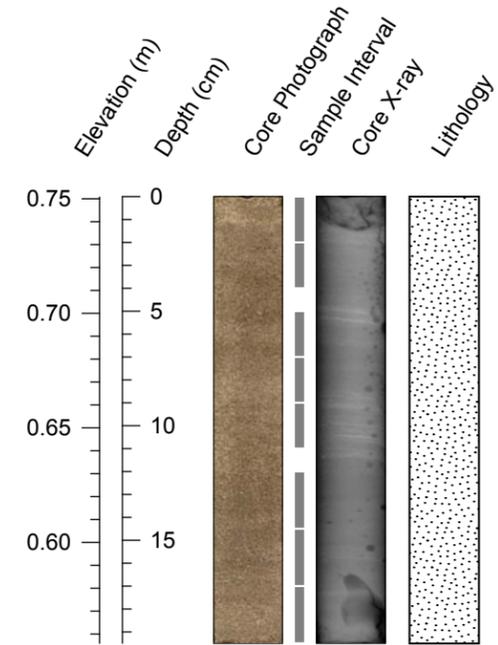
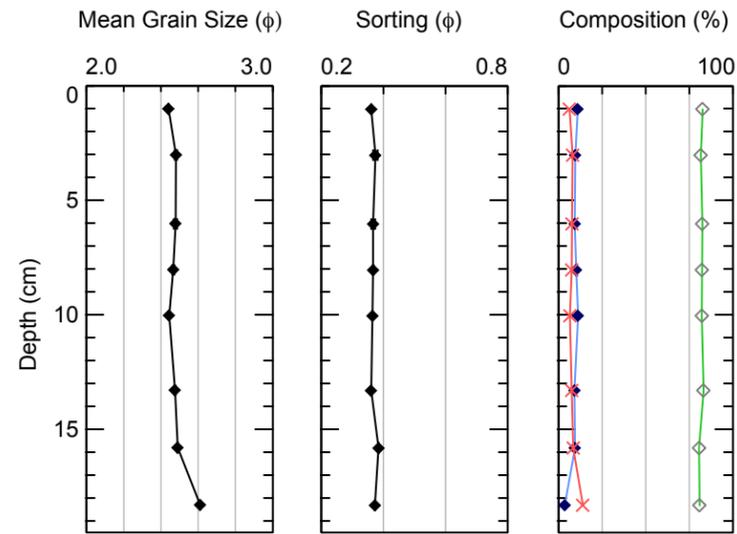
**EXPLANATION**

Sediment composition

- Medium and coarse sand
- Fine sand
- Very fine sand

Lithology

- Sand



Lithologic Description

0 - 19.5 cm: SAND, light olive-brown, well-sorted, fine-grained, horizontally bedded sand; no visible shell material

Core ID: 13BIM05-13

Core ID: 13BIM05-13

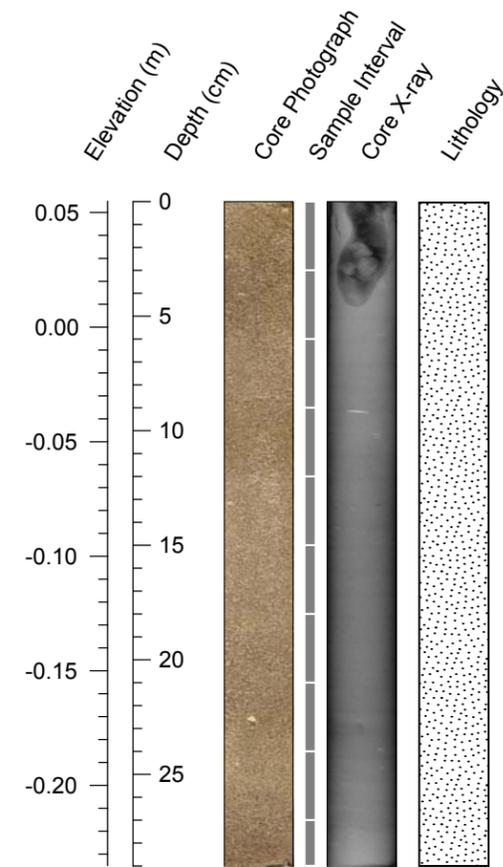
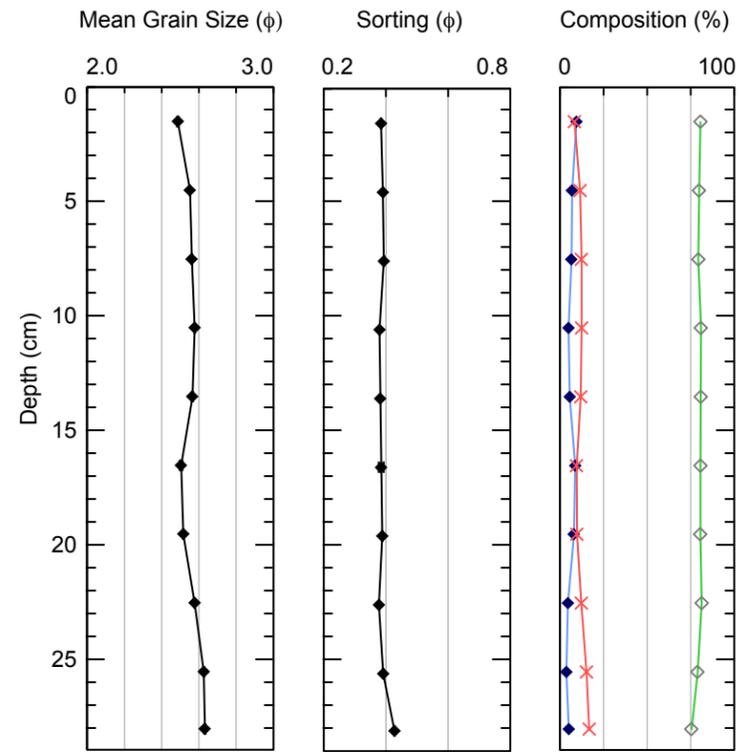
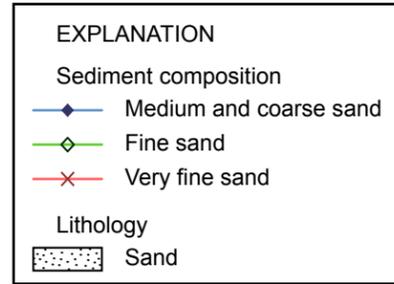
Latitude: 29.95100 N

Elevation: 0.055 m

Longitude: -88.82270 W

Core Length: 29.0 cm

Location: T5 (surf)



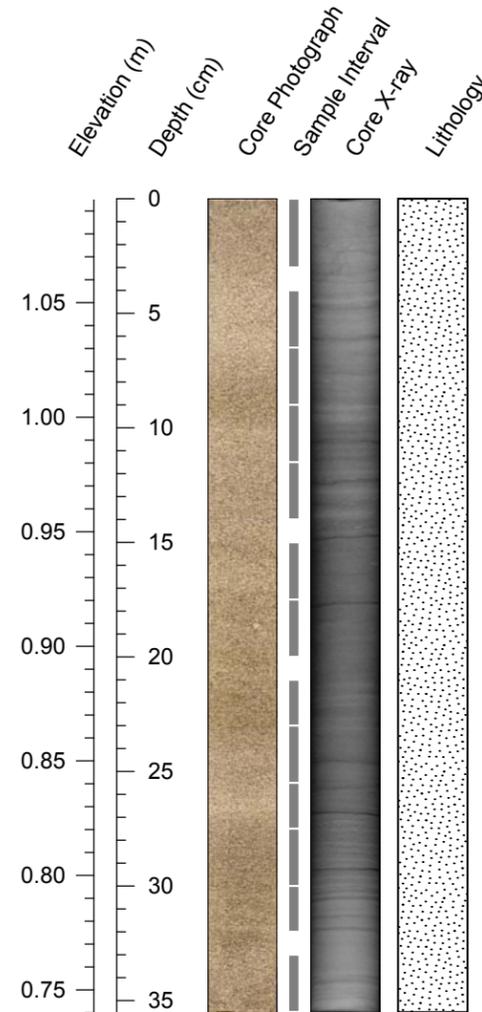
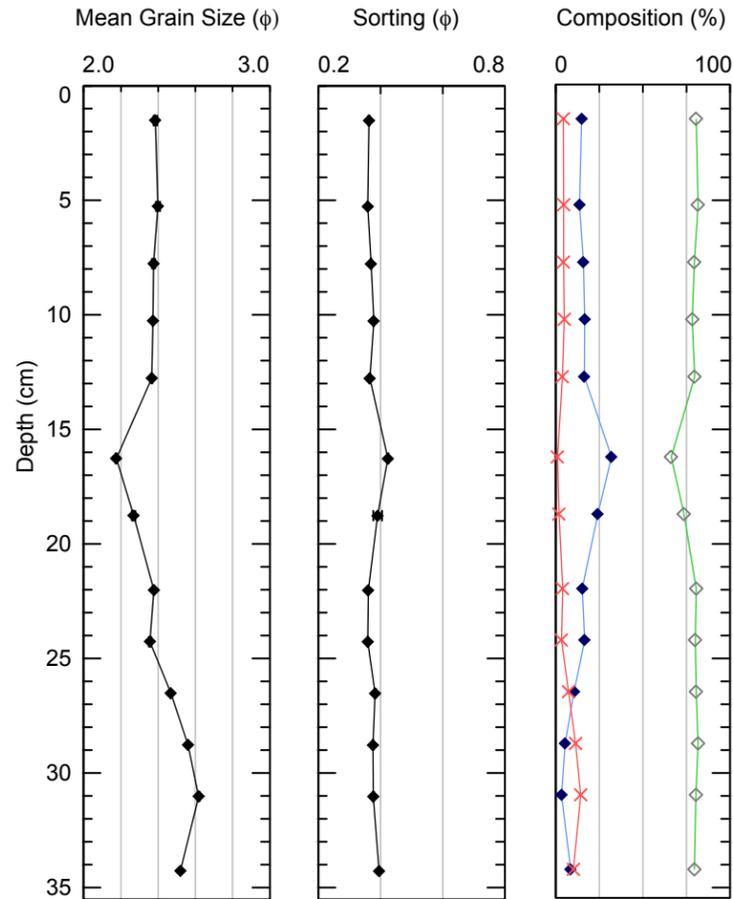
**EXPLANATION**

Sediment composition

- ◆ Medium and coarse sand
- ◇ Fine sand
- × Very fine sand

Lithology

- ▨ Sand



Lithologic Description

0 - 35.5 cm: SAND, light brown grading into olive-brown, well-sorted, fine-grained quartz sand; bedding is massive from 0 to 24.5 cm and horizontally bedded from 24.5 to 35.5 cm. Laminations are visible in x-ray.

\*interpolated from a 2.5-meter by 2.5-meter gridded surface of USGS lidar data collected in July 2013 using the Spatial Analyst Extract Values to Points tool in Esri ArcGIS version 10.2

**Core ID: 13BIM05-15**

**Core ID: 13BIM05-15**

**Latitude:** 29.96649 N

**Elevation:** 0.480 m

**Longitude:** -88.82665 W

**Core Length:** 19.5 cm

**Location:** T5 (gulfside)

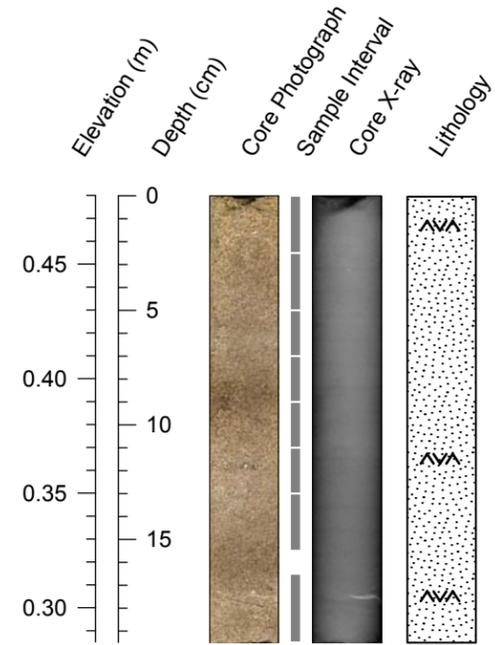
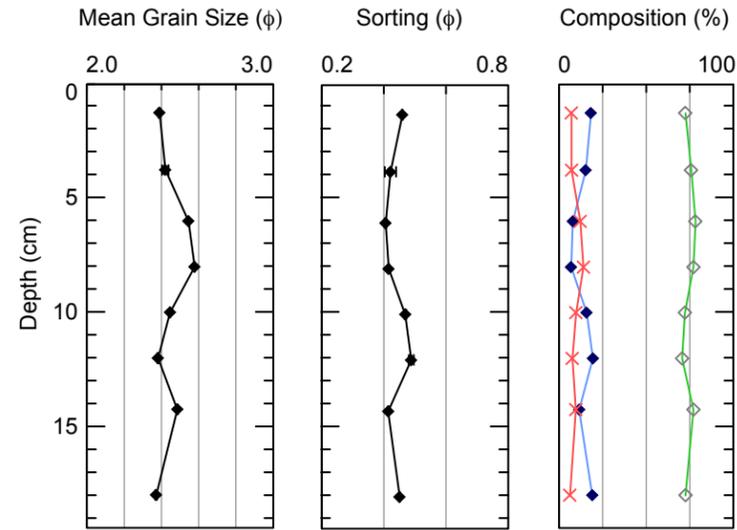
**EXPLANATION**

**Sediment composition**

- ◆ Medium and coarse sand
- ◇ Fine sand
- × Very fine sand

**Lithology**

- ▒ Sand
- ∧∧ Shell fragments



**Lithologic Description**

0 - 19.5 cm: SAND, dark olive-brown, well-sorted, fine-grained massive quartz sand with random scattered shell fragments

Core ID: 13BIM05-16

Core ID: 13BIM05-16

Latitude: 29.96646 N

Elevation: 0.930 m

Longitude: -88.82703 W

Core Length: 33.5 cm

Location: T4 (berm overwash)

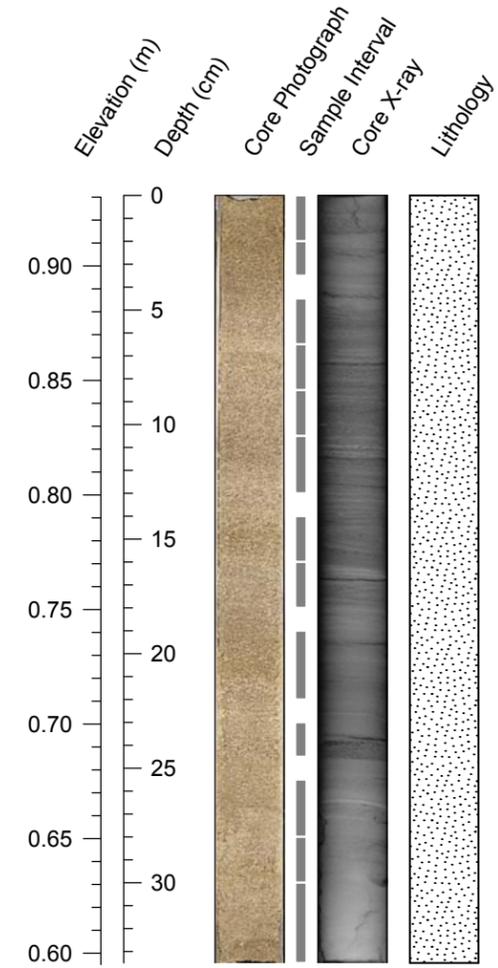
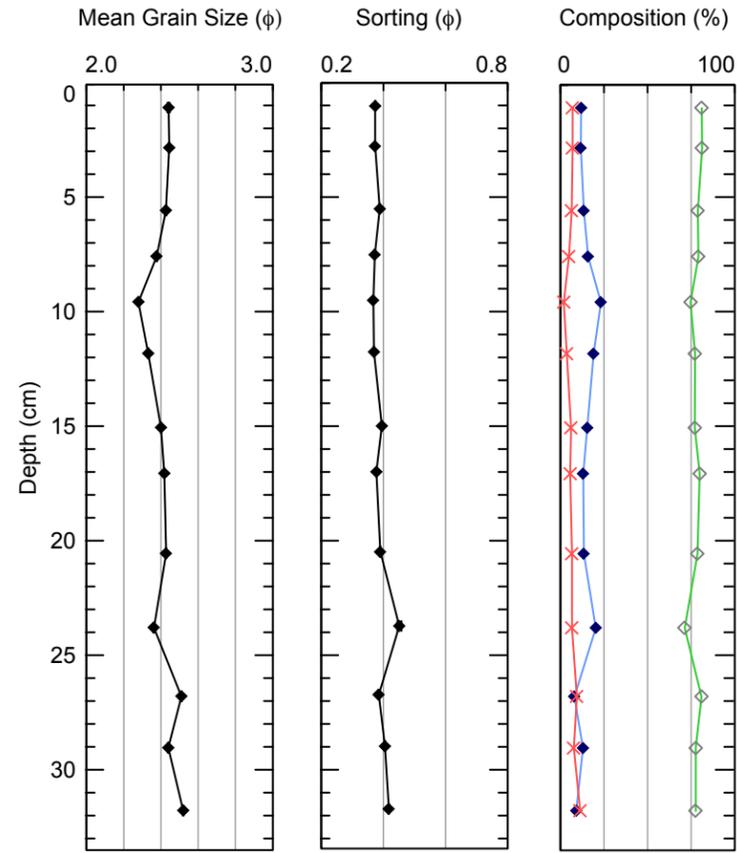
**EXPLANATION**

Sediment composition

- Medium and coarse sand
- Fine sand
- Very fine sand

Lithology

- Sand



Lithologic Description

0 - 33.5 cm: SAND, light olive-brown, well-sorted, fine-grained, horizontally laminated with laminations consisting of thin, dark olive-brown sand, which increase in frequency downcore; no visible shell material

Core ID: 13BIM05-17

Core ID: 13BIM05-17

Latitude: 29.96640 N Elevation: 0.672 m  
 Longitude: -88.82739 W Core Length: 26.0 cm  
 Location: T4 (berm overwash)

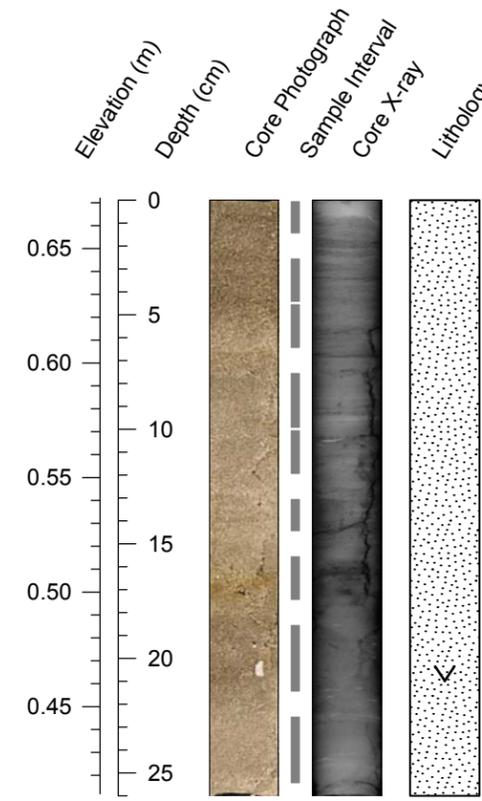
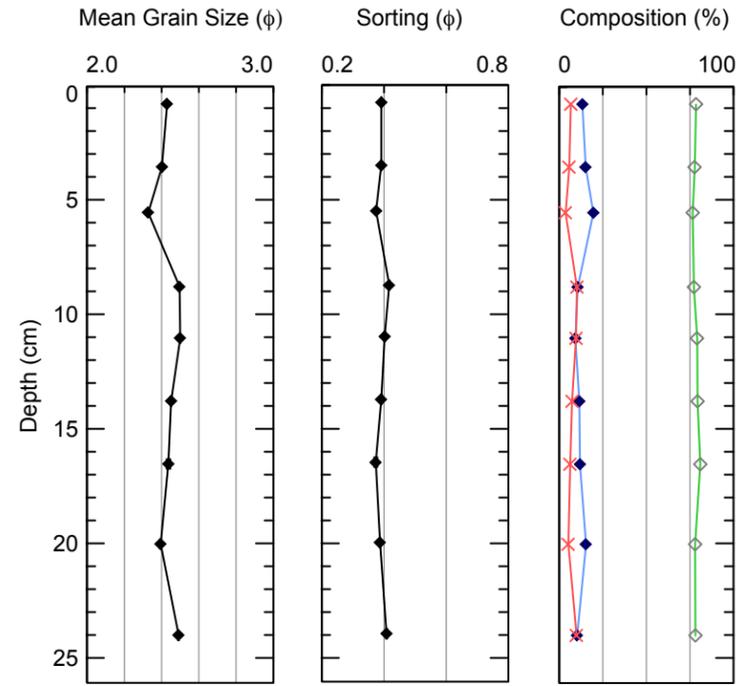
**EXPLANATION**

**Sediment composition**

- ◆ Medium and coarse sand
- ◇ Fine sand
- × Very fine sand

**Lithology**

- ▒ Sand
- ∧∧ Shell fragments



Lithologic Description

0 - 26.0 cm: SAND, olive-brown, well-sorted, fine-grained, quartz sand with faint inclined bedding and an oxidized horizon from 16.0 to 17.5 cm; occasional small mica flakes and no visible shell material except a small shell fragment at 20.5 cm

Core ID: 13BIM05-21

Core ID: 13BIM05-21

Latitude: 29.89652 N

Elevation: 0.530 m

Longitude: -88.82354 W

Core Length: 27.5 cm

Location: T8 (shoreface)

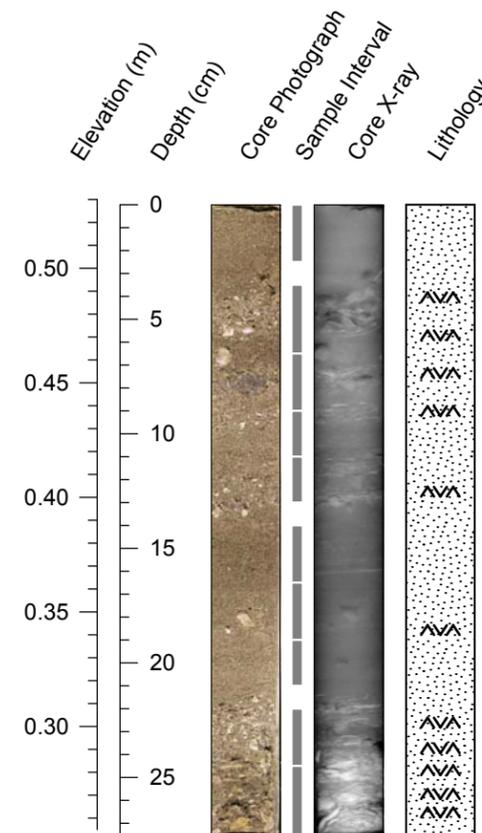
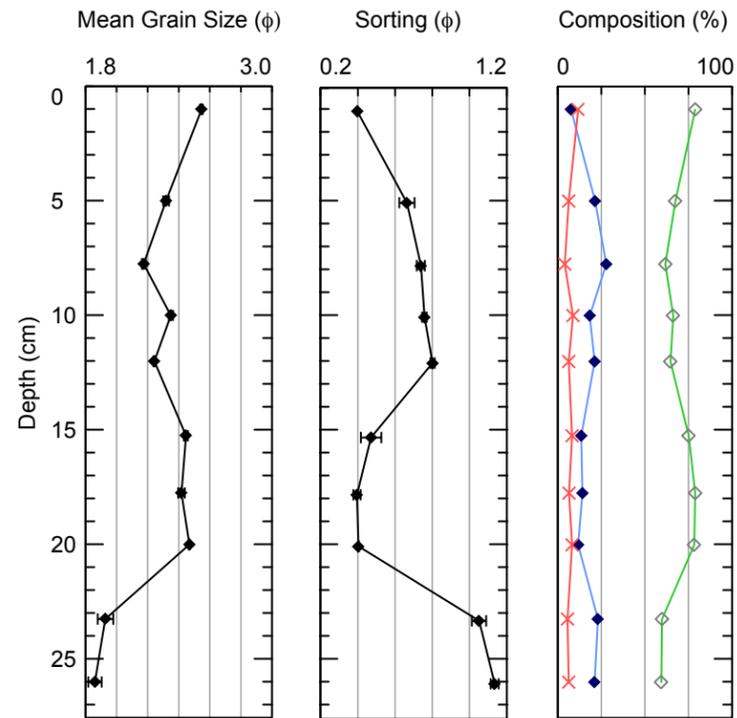
**EXPLANATION**

Sediment composition

- ◆ Medium and coarse sand
- ◇ Fine sand
- × Very fine sand

Lithology

- ▨ Sand
- ∧∧ Shell fragments



Lithologic Description

0 - 27.5 cm: SAND, olive-brown, well-sorted, fine-grained, quartz sand with heavy shell content from 3.5 to 9.5 cm, moderate shell material from 9.5 to 21.5 cm, and a very dense shell horizon from 21.5 to 27.5 cm; bedding is predominantly mottled with faint horizontal bedding from 9.5 to 21.5 cm

Core ID: 13BIM05-22

Core ID: 13BIM05-22

Latitude: 29.89647 N

Elevation: -0.037 m

Longitude: -88.82337 W

Core Length: 26.0 cm

Location: T8 (surf)

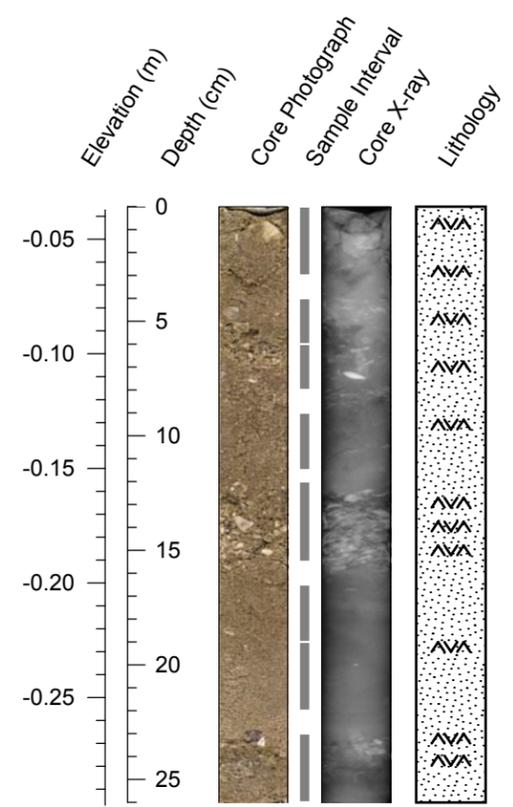
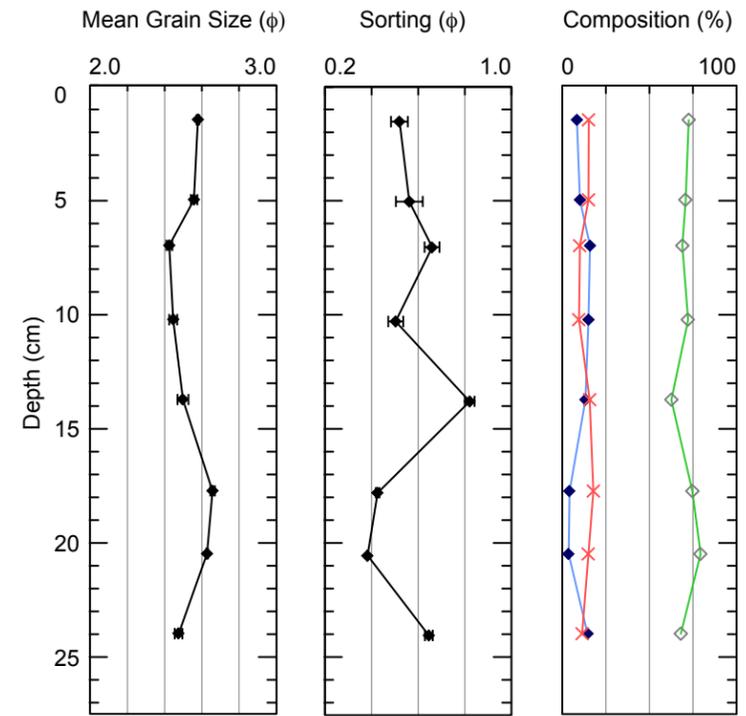
**EXPLANATION**

**Sediment composition**

- ◆ Medium and coarse sand
- ◇ Fine sand
- × Very fine sand

**Lithology**

- ▨ Sand
- ∧∧ Shell fragments



**Lithologic Description**

0 - 26.0 cm: SAND, olive-brown, well-sorted, fine-grained, quartz sand with moderate shell fragments from 0 to 12.0 cm, abundant large shell fragments from 12.0 to 16.5 cm, very little disseminated shell hash from 16.5 to 23.0 cm, and moderated shell fragments levels from 23.0 to 26.0 cm

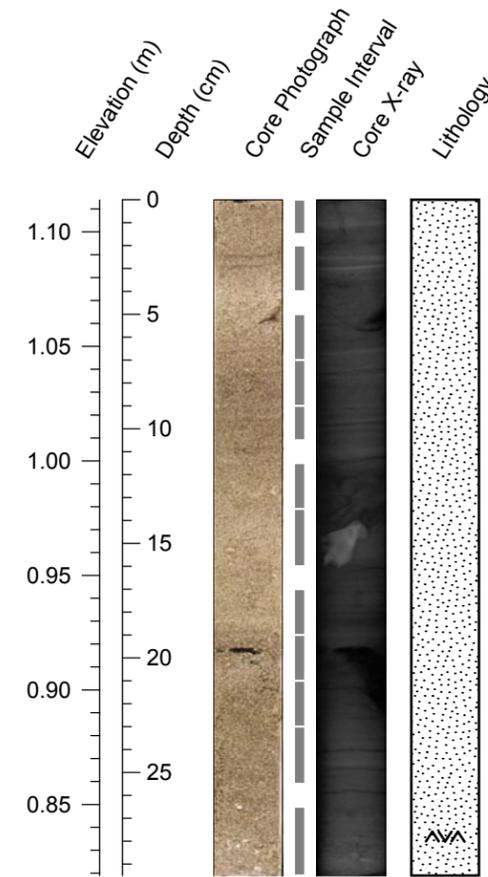
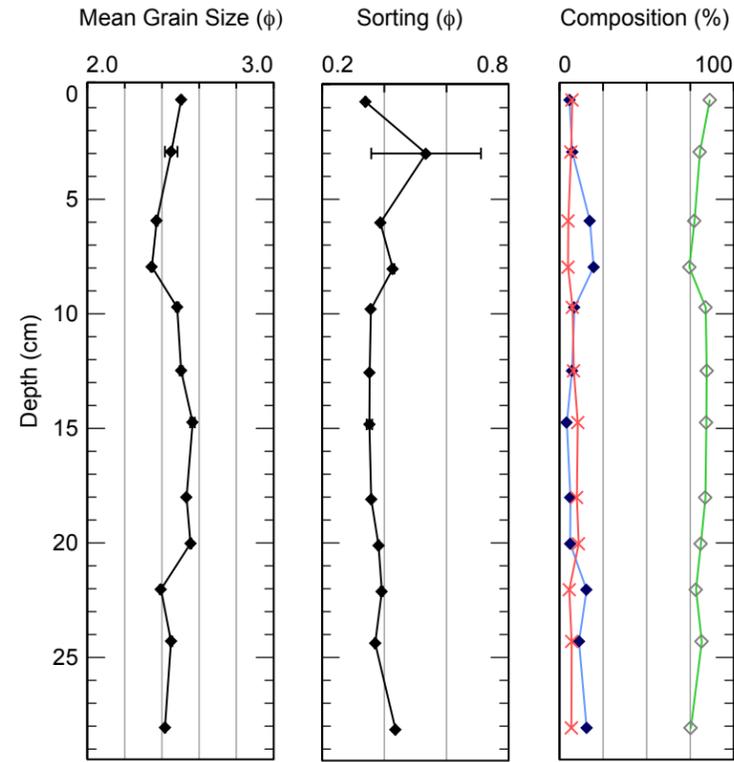
**EXPLANATION**

**Sediment composition**

- ◆ Medium and coarse sand
- ◇ Fine sand
- × Very fine sand

**Lithology**

- ▨ Sand
- ∧∧ Shell fragments



Lithologic Description

0 - 29.5 cm: SAND, light brown, well-sorted, fine-grained, quartz sand with thin olive-brown sand horizons; bedding is horizontally laminated from 0 to 20.0 cm then massive from 20 to 29.5 cm; minimal disseminated shell hash from 26.5 to 29.5 cm. Laminations are seen in x-ray.

Core ID: 13BIM05-24

Core ID: 13BIM05-24

Latitude: 29.88728 N

Elevation: 0.957 m

Longitude: -88.82585 W

Core Length: 26.0 cm

Location: T9 (crest)

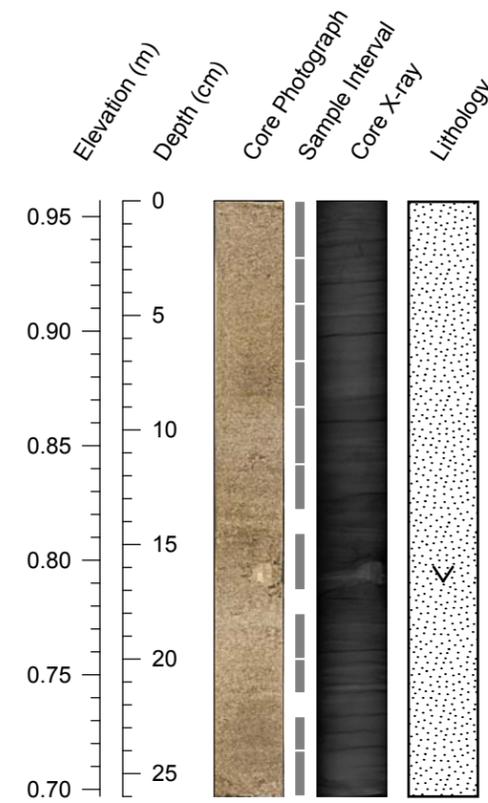
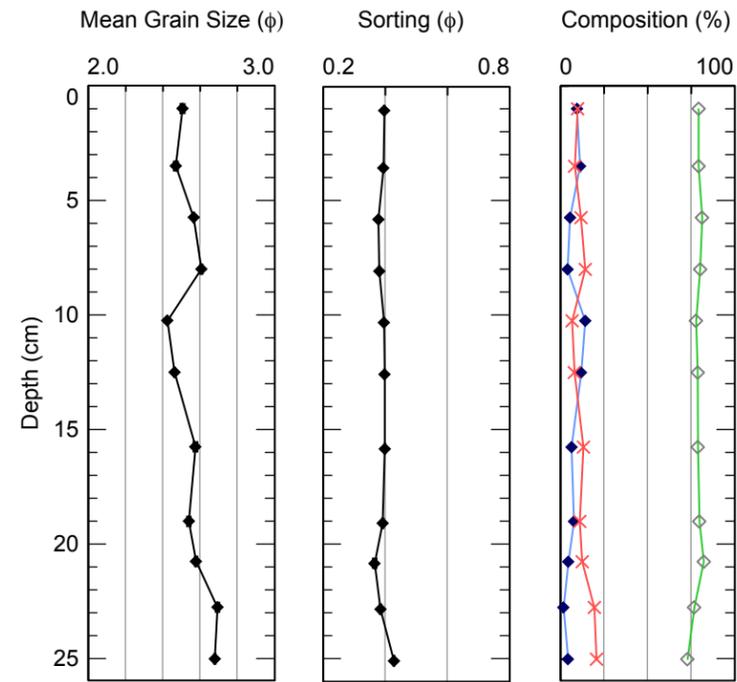
**EXPLANATION**

**Sediment composition**

- ◆ Medium and coarse sand
- ◇ Fine sand
- × Very fine sand

**Lithology**

- ▨ Sand
- ∧∧ Shell fragments



Lithologic Description

0 - 26.0 cm: SAND, light brown, well-sorted, fine-grained, horizontally laminated quartz sand with thin, olive-brown, fine-grained sand horizons with a large shell fragment at 16.5 cm

Core ID: 13BIM05-25

Core ID: 13BIM05-25

Latitude: 29.88717 N Elevation: 0.786 m  
 Longitude: -88.82614 W Core Length: 39.0 cm  
 Location: T9 (inner island)

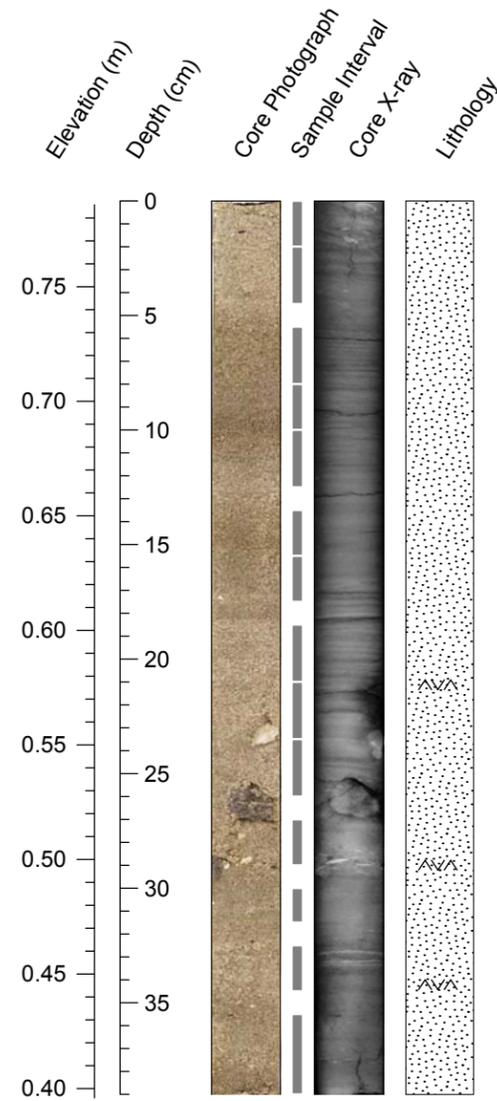
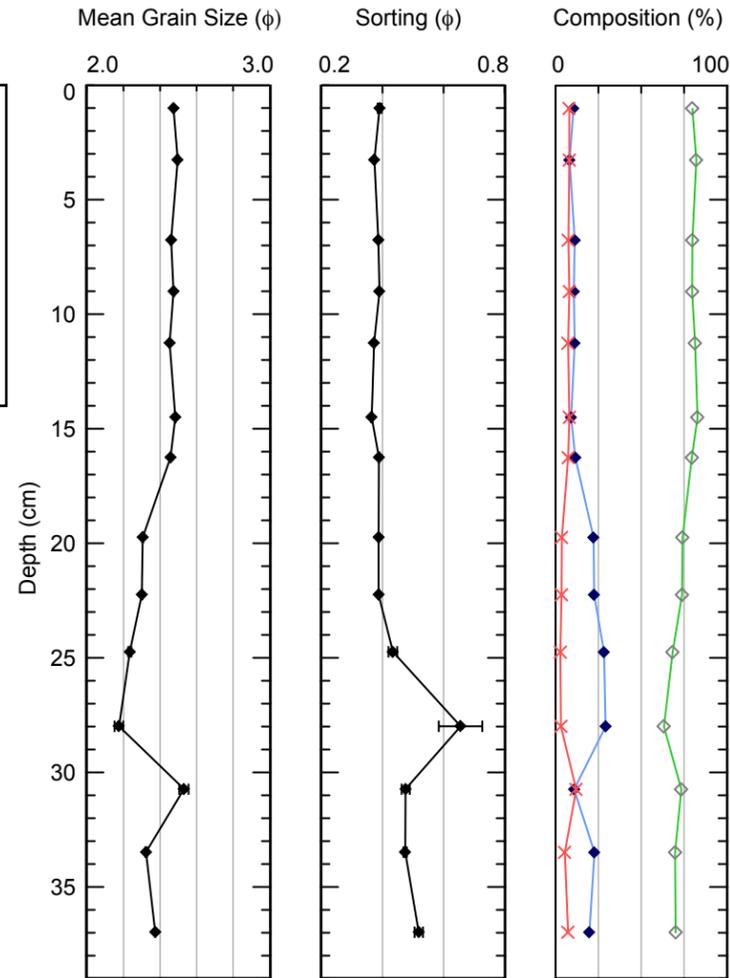
**EXPLANATION**

**Sediment composition**

- ◆ Medium and coarse sand
- ◇ Fine sand
- × Very fine sand

**Lithology**

- ▨ Sand
- ∧∧ Shell fragments



Lithologic Description

0 - 39.0 cm: SAND, light olive-brown, well-sorted, fine-grained quartz sand with faint horizontal bedding and sporadic, disseminated shell fragments from 21.0 to 39.0 cm

Core ID: 13BIM05-26

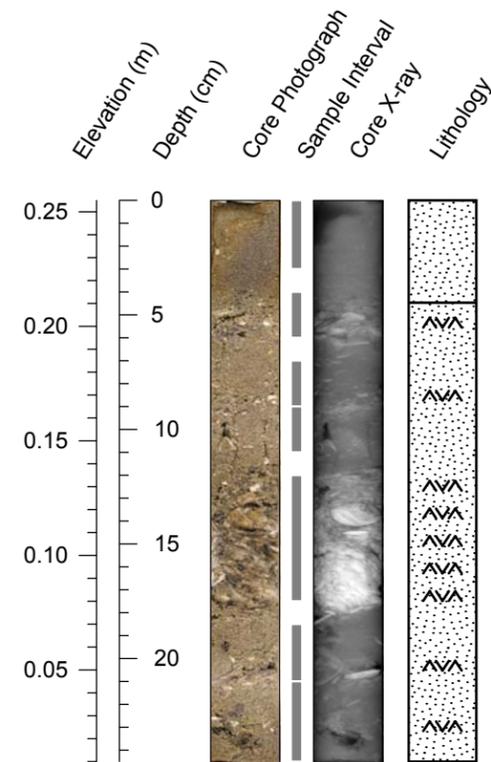
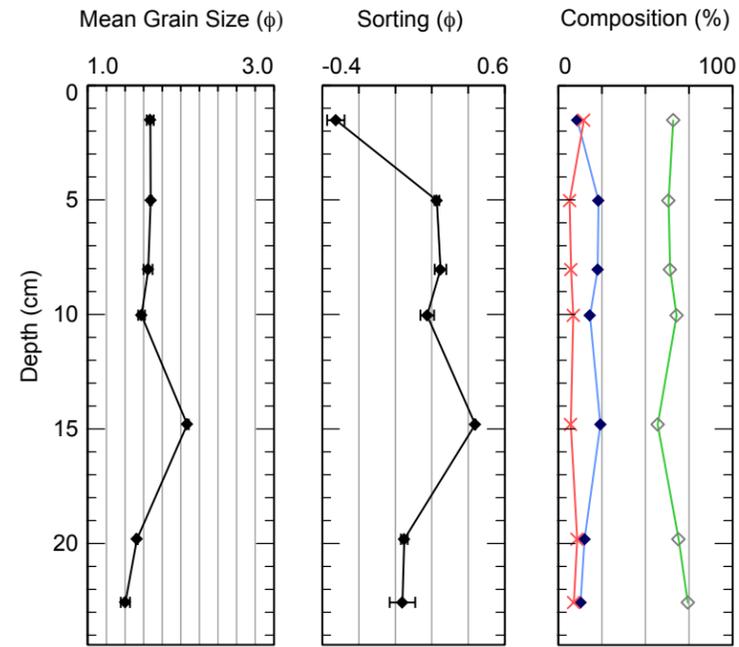
Core ID: 13BIM05-26

Latitude: 29.88756 N Elevation: 0.255 m

Longitude: -88.82820 W Core Length: 24.5 cm

Location: T9 (sound side)

EXPLANATION	
Sediment composition	
◆	Medium and coarse sand
◇	Fine sand
×	Very fine sand
Lithology	
▨	Sand
∧∧	Shell fragments



Lithologic Description

0 - 4.5 cm: SAND, dark, olive-gray, fine-grained, silty sand with no visible shell material

4.5 - 24.5 cm: SAND, olive-brown, well-sorted, fine-grained, mottled, shelly sand with heavier shell content from 13.0 to 18.0 cm