



## Addendum

(Status: January 2019)

to

# Cruise Report / Fahrtbericht

FS / RV SONNE

# SO264

**Suva (Fiji) – Yokohama (Japan)**

**30.6.2018 – 24.8.2018**



































Durchführung im Rahmen von

## SONNE-EMPEROR

***BMBF Projekt Nr. 03G0264A***

Chief Scientist / Fahrtleiter: Dirk Nürnberg, GEOMAR Kiel  
Captain / Kapitän: Oliver Meyer, Briese Research

## Legend for core description

LITHOLOGY		
 sand	 sandy ooze	 Red clay
 silty sand	 silty ooze	 Diatom Ooze
 silt	 Tephra fine	 Gravel
 sandy silt	 diagenetic layer	 Laminated
 clayey silt	 diagenetic layer (fine)	 Lost Core
 Ooze/Clay	 Turbidite	
 silty clay	 Tephra	
CORE DISTURBANCE		
 - Very Disturbed		
PHYSICAL STRUCTURES		
 - Planar Tabular Bedding		
ACCESSORIES		
 - Sand Lamina	 - Pebbles/Granules	Py - Pyrite
ICHTHOFOSSILS		
 - Zoophycos		
FOSSILS		
 - Corals (solitary)	 - Diatoms	 - Foraminifera (undifferentiated)
BIOTURBATION INDEX		
 Barren	 Moderate	 Complete
 Sparse	 Abundant	
 Low	 Intense	

## Appendix 5.6.1 Lithology logs

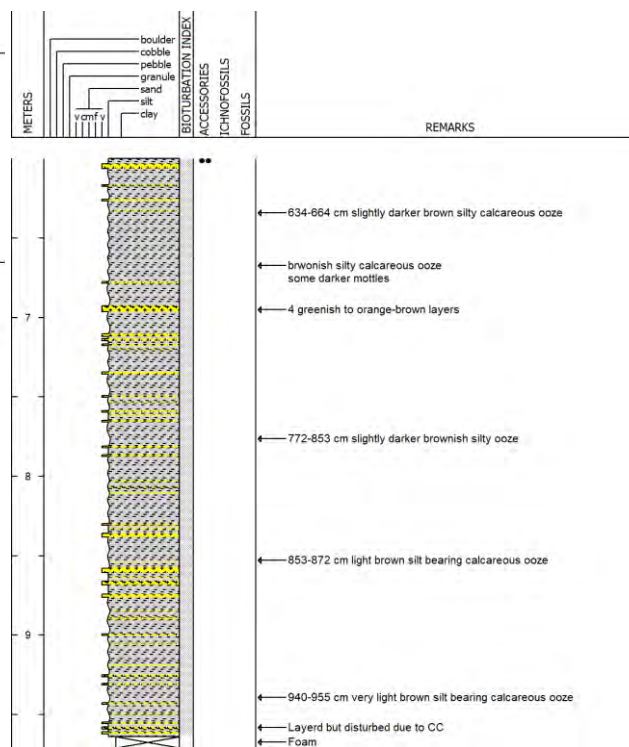
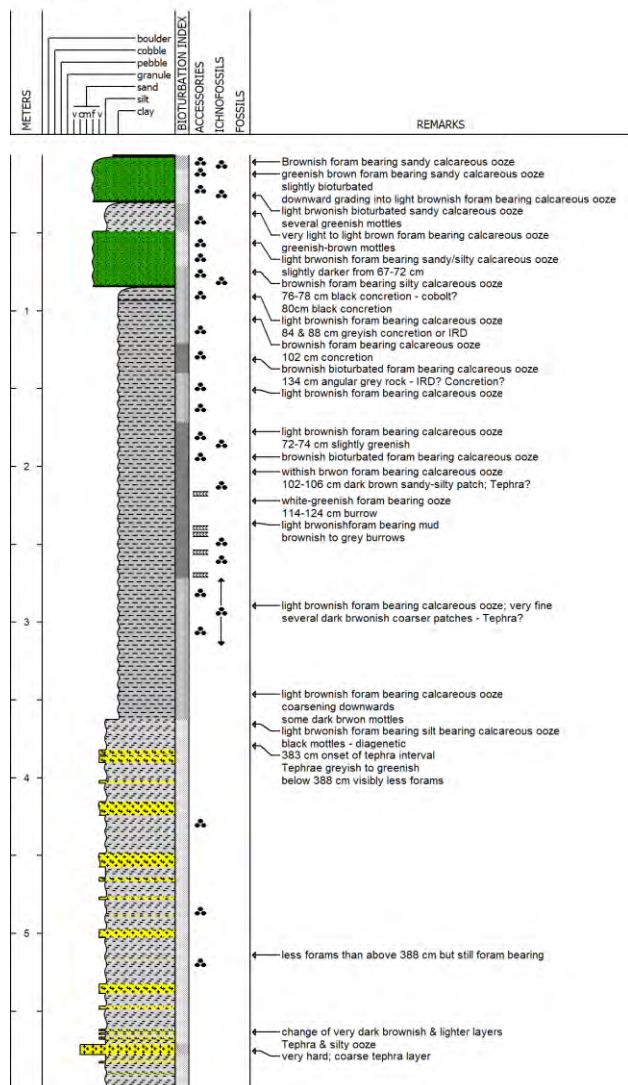
## SO264 Cruise Report

**SO264-08-2**

Date Logged: July 12, 2018

Logged by: T. Ronge

Remarks: 33°39,616'N 174°45,044'E 2682 mbsl



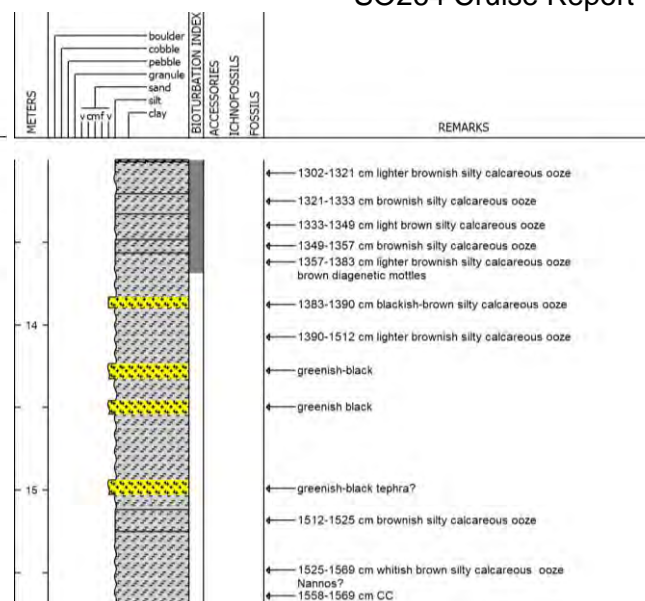
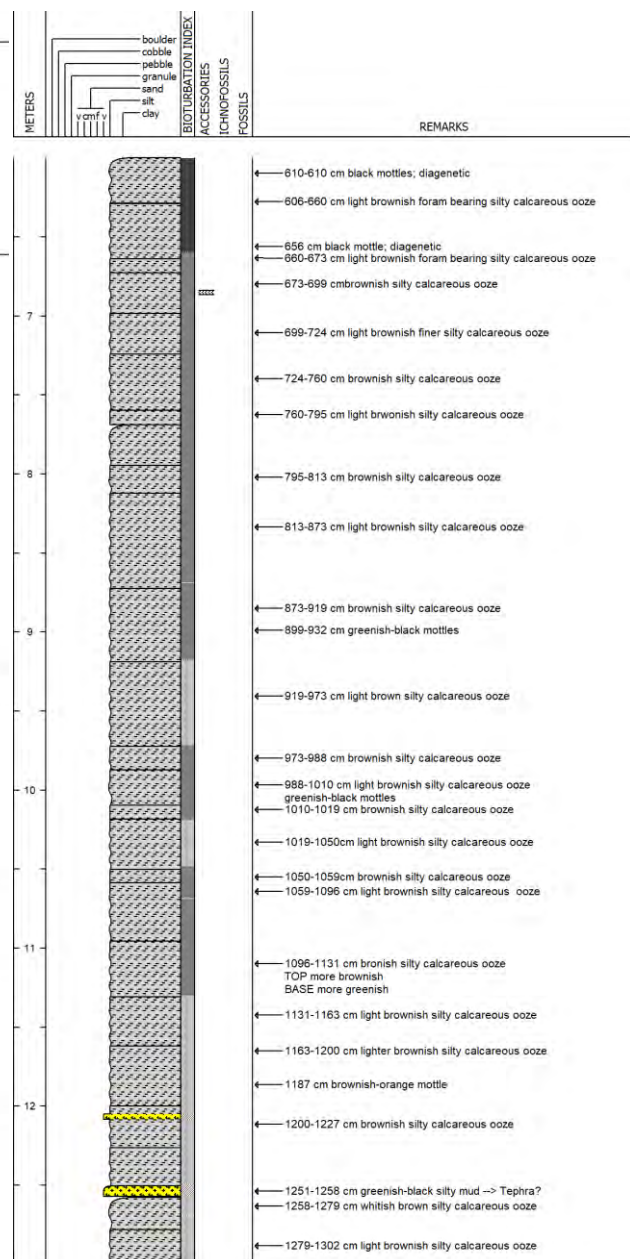
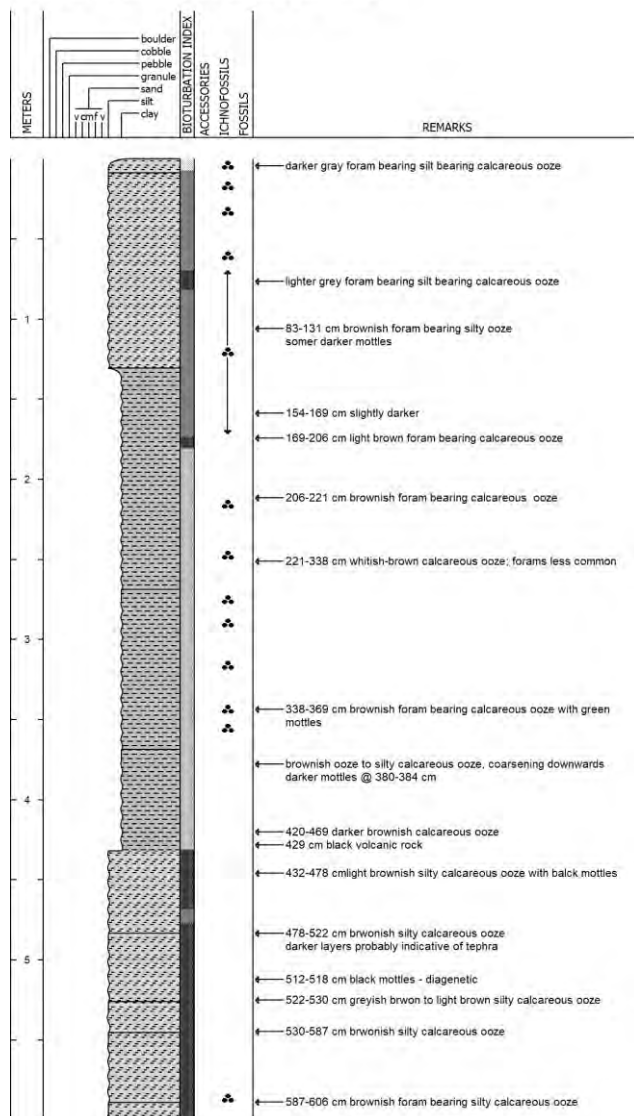
## Appendix 5.6.1 Lithology logs

**SO264-09-2**

Date Logged: July 13, 2018

Logged by: T. Ronge

Remarks: 34°46,977'N 172°20,987'E 3865 mbsl



## SO264 Cruise Report



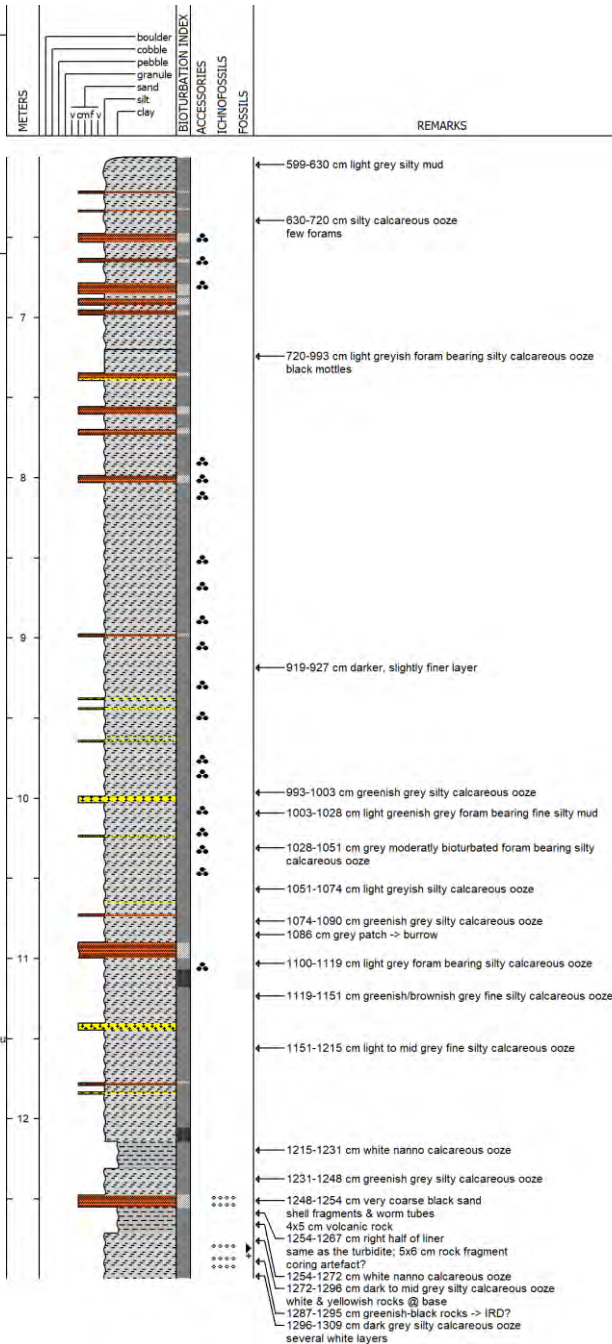
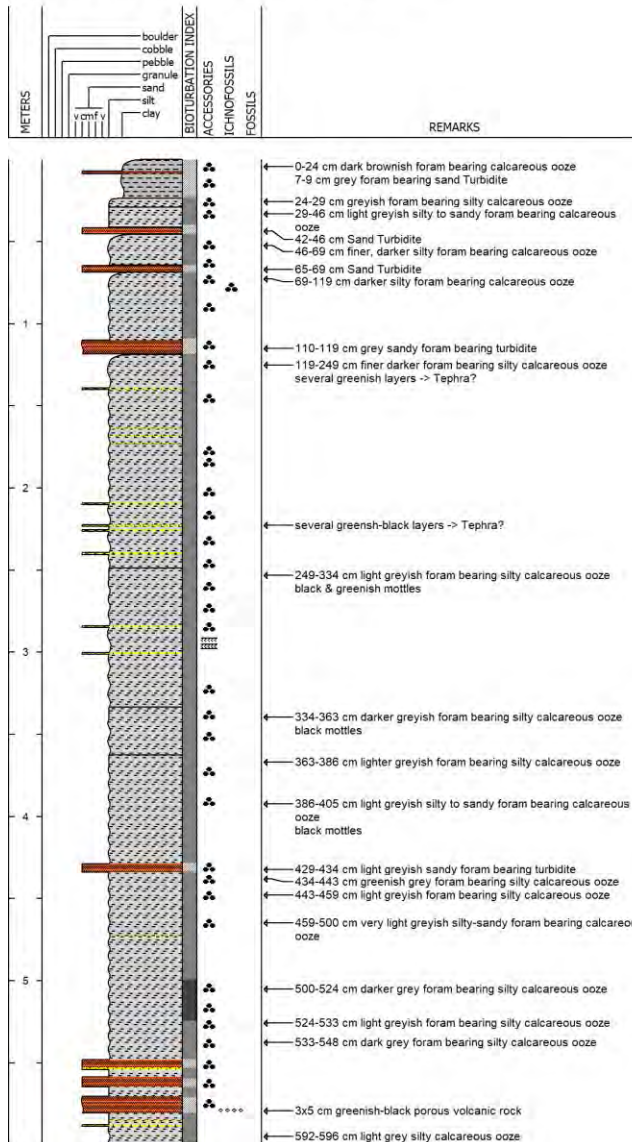
## Appendix 5.6.1 Lithology logs

### SO264-13-2

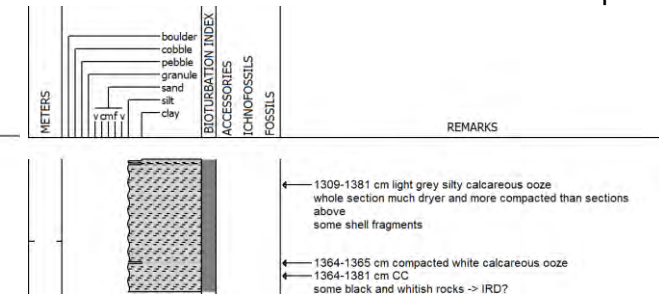
Date Logged: July 15, 2018

Logged by: T.Ronge

Remarks: 37°47,865'N 170°43,327'E 3935 mbsl



## SO264 Cruise Report



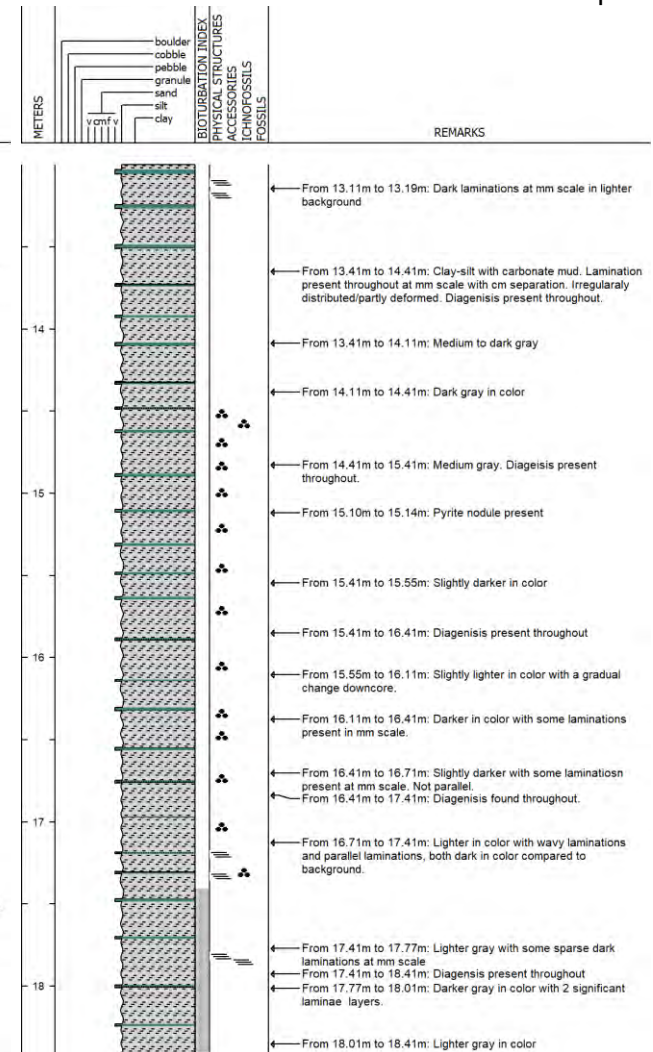
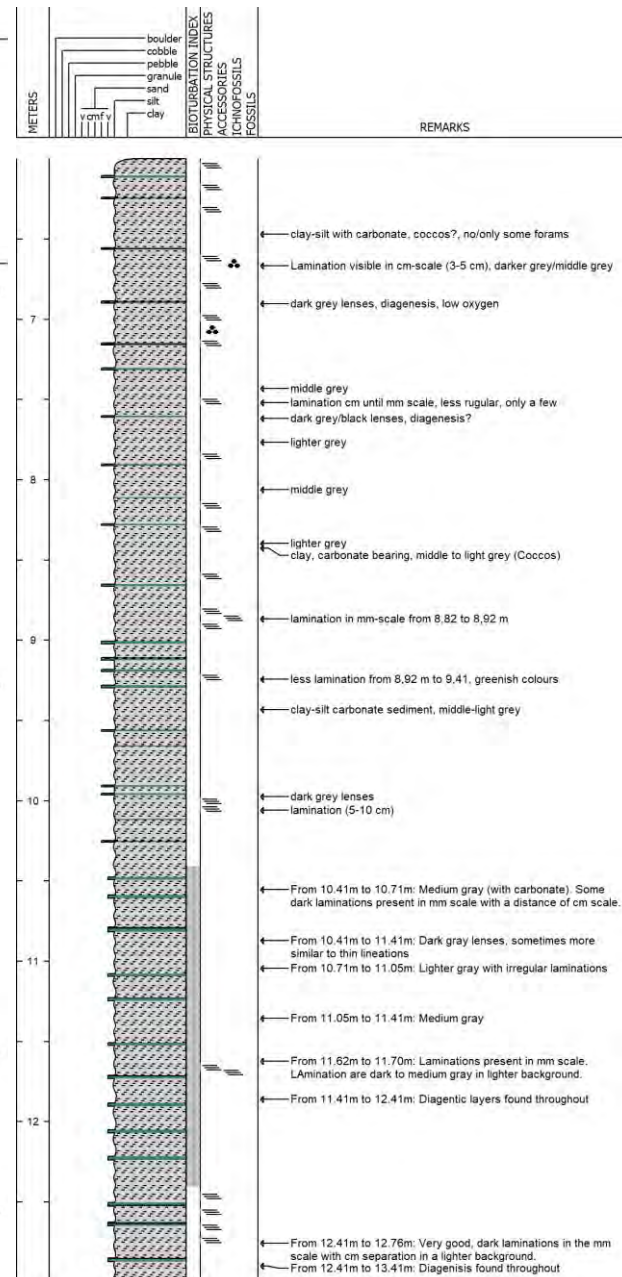
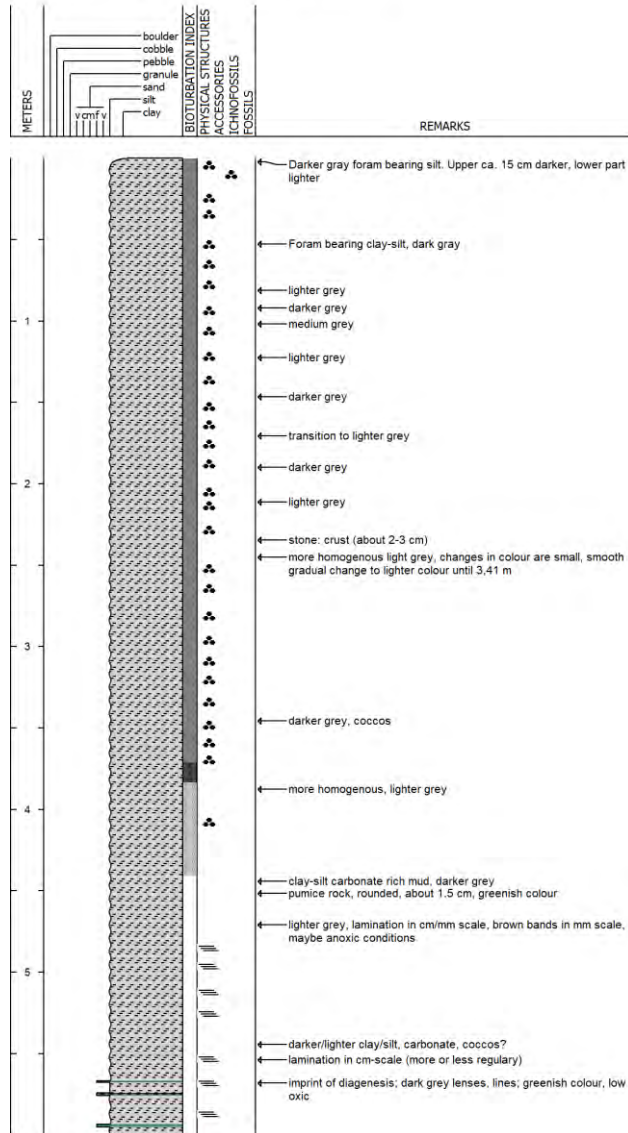
## Appendix 5.6.1 Lithology logs

**SO264-14-1**

Date Logged: July 17, 2018

Logged by: C. Karas

Remarks: 40°50,034'N 170°54,201'E 3930 mbsl



## SO264 Cruise Report



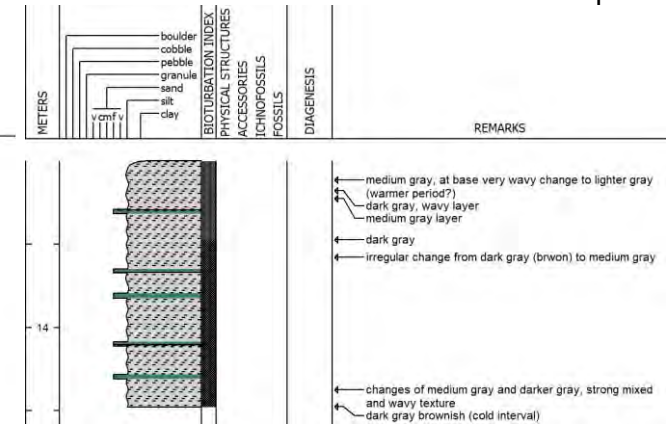
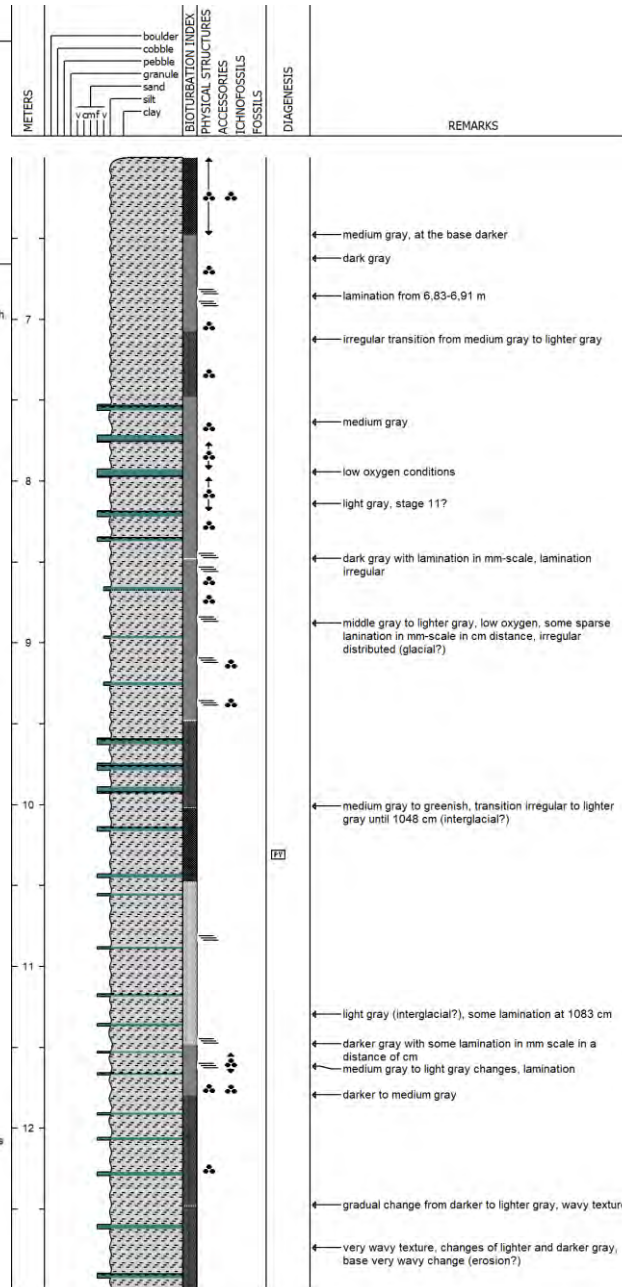
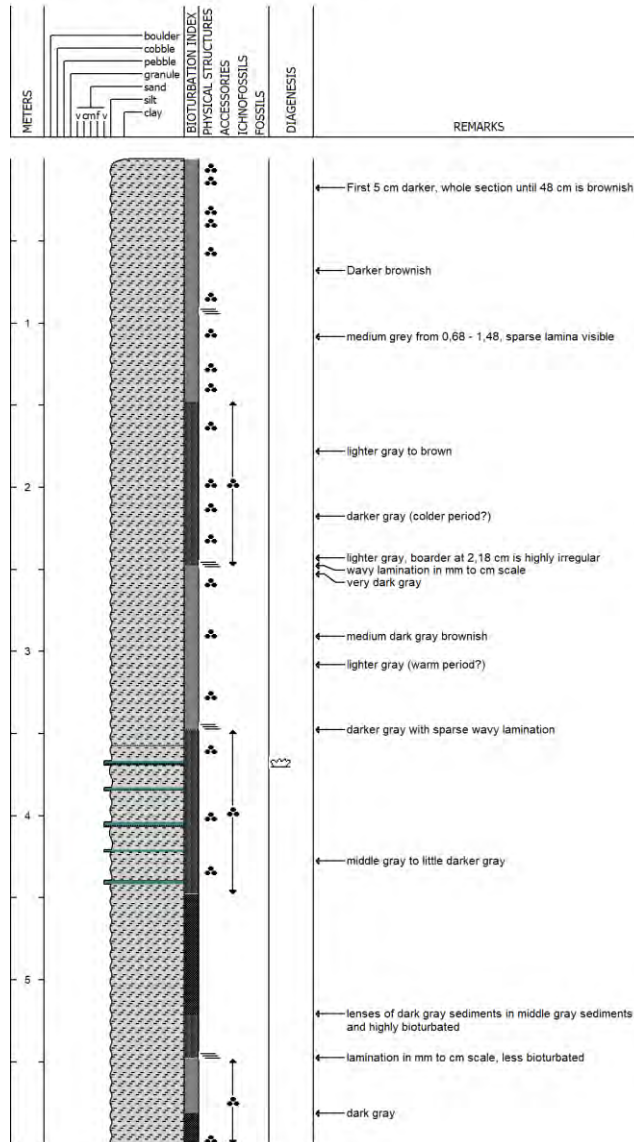
## Appendix 5.6.1 Lithology logs

**SO264-15-2**

Date Logged: July 22, 2018

Logged by: C. Karas

Remarks: 41°36,917'N 170°25,340'E 3662 mbsl



## SO264 Cruise Report

## Appendix 5.6.1 Lithology logs

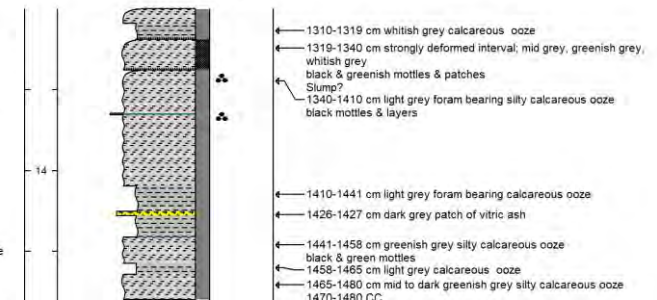
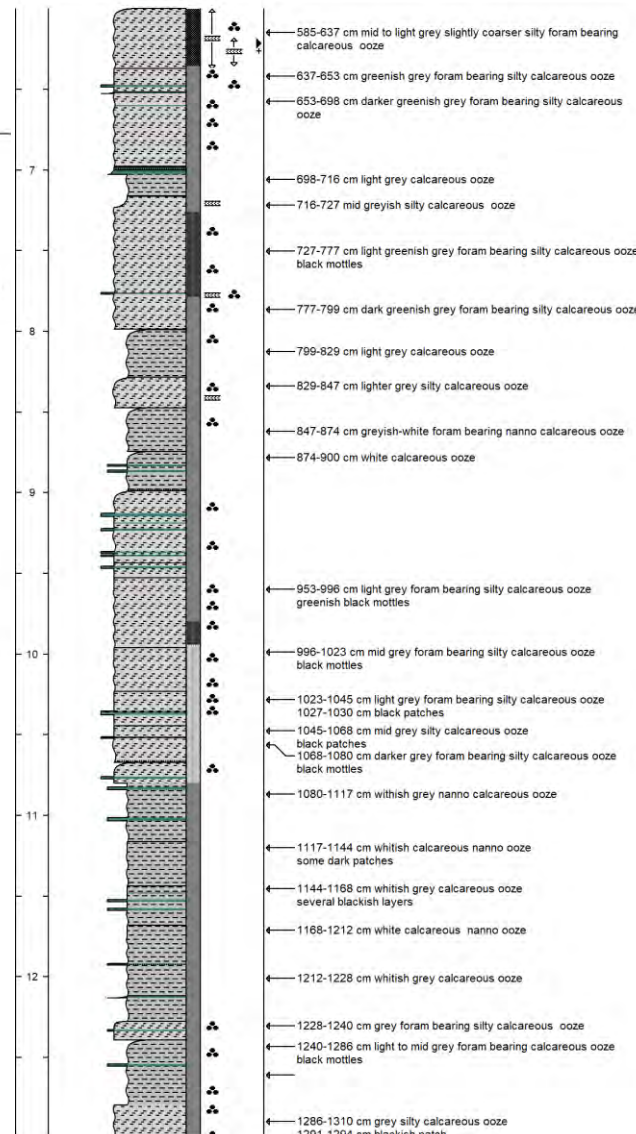
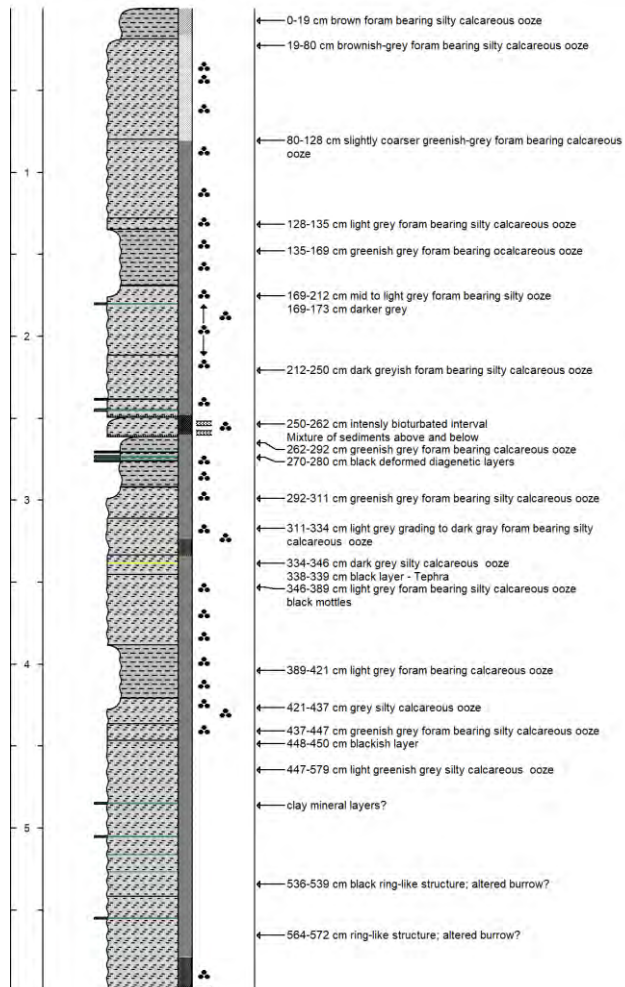
## SO264 Cruise Report

### SO264-16-2

Date Logged: July 18, 2018

Logged by: T. Ronge

Remarks: 41°34,914'N 170°25,783'E 3572 mbsl





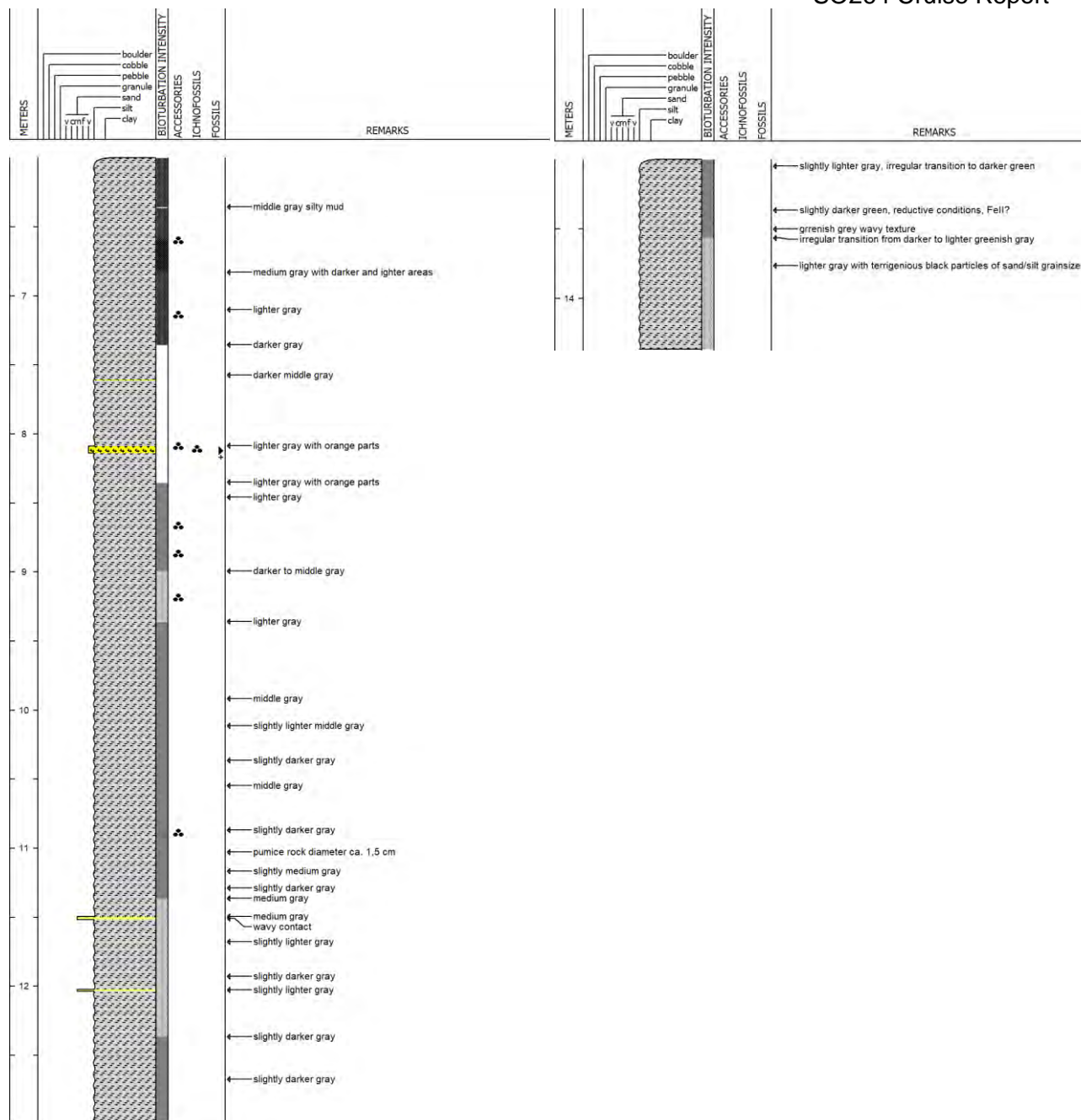
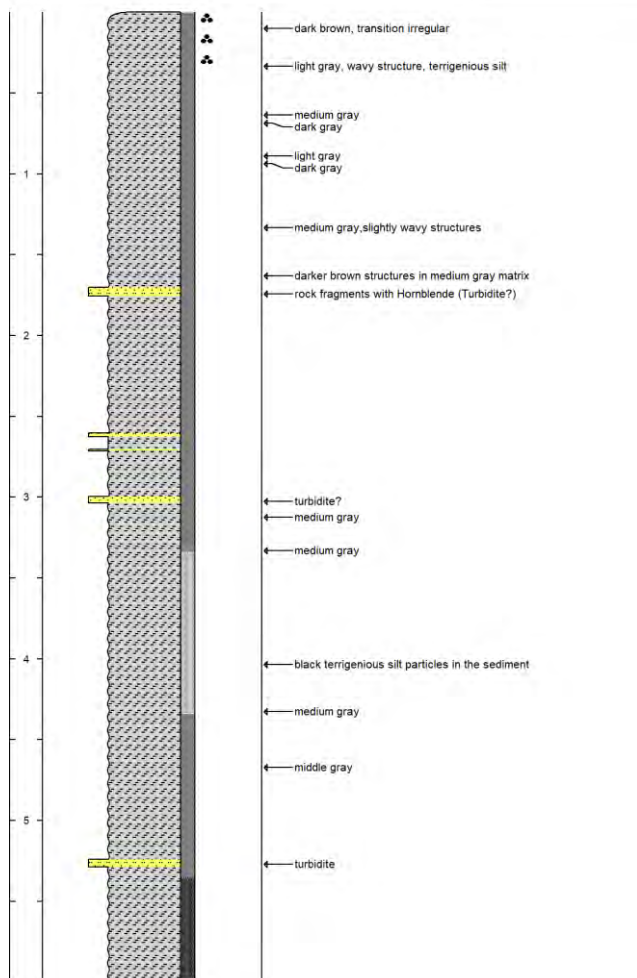
## Appendix 5.6.1 Lithology logs

**SO264-19-2**

Date Logged: July 22, 2018

Logged by: C. Karas

Remarks: 43°48,891'N 170°46,843'E 5704 mbsl



## SO264 Cruise Report

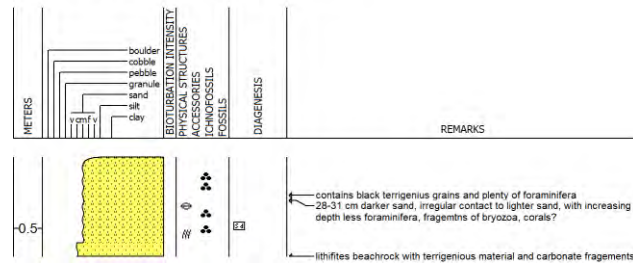
### Appendix 5.6.1 Lithology logs

**SO264-20-1**

Date Logged: July 22, 2018

Logged by: C. Karas

Remarks: 41°20,025'N 170°22,742'E 1308 mbsl



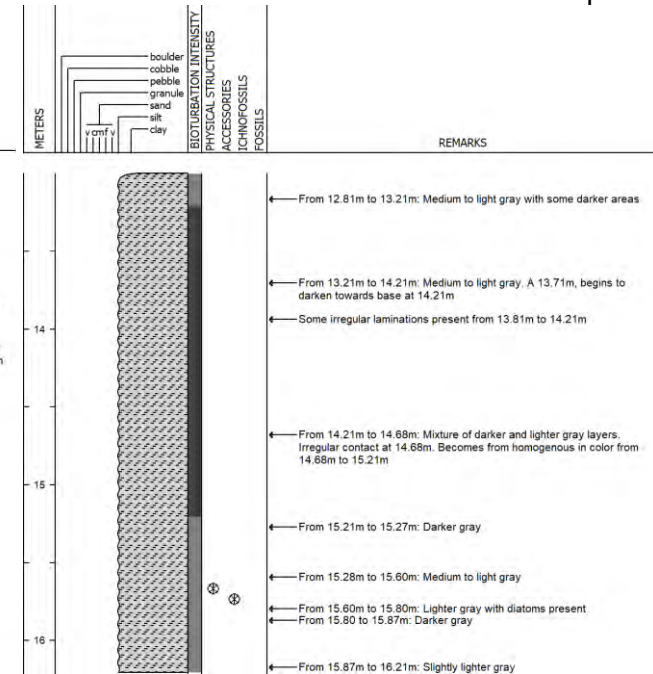
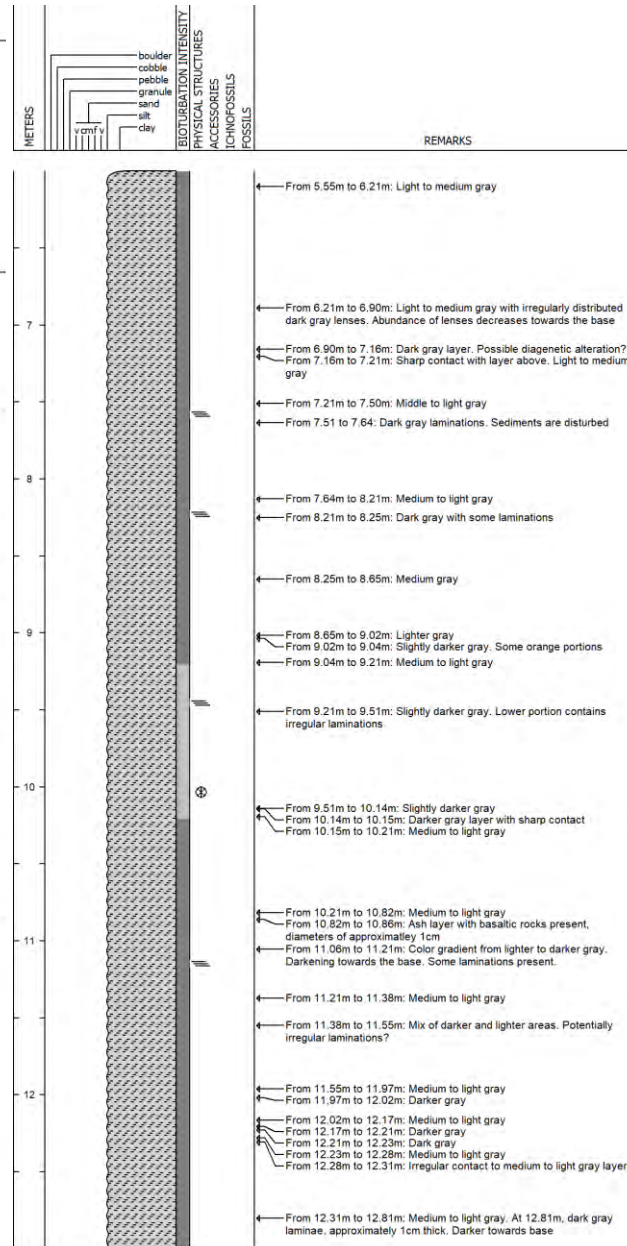
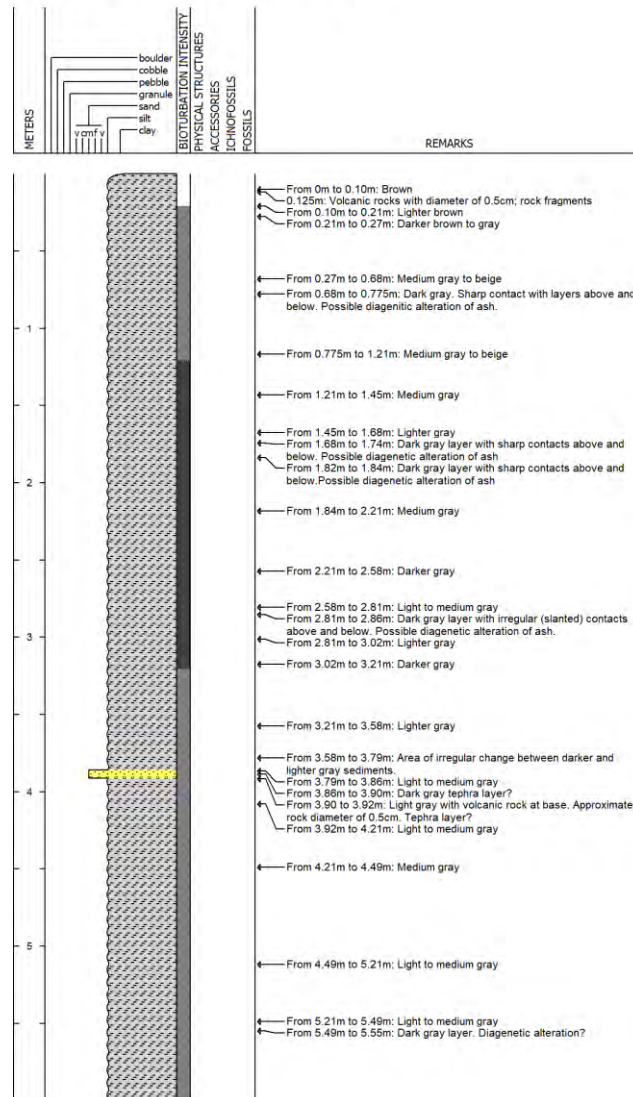
## Appendix 5.6.1 Lithology logs

**SO264-22-2**

Date Logged: July 22, 2018

Logged by: C. Karas

Remarks: 43°48,891'N 170°46,843'E 5704 mbsl



## SO264 Cruise Report



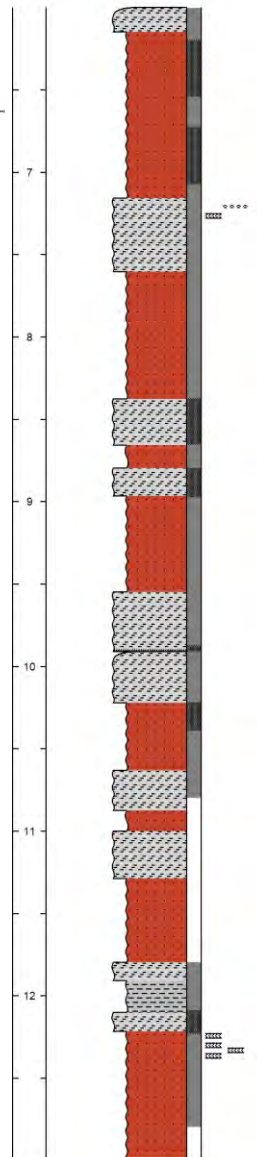
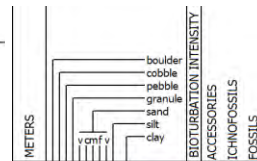
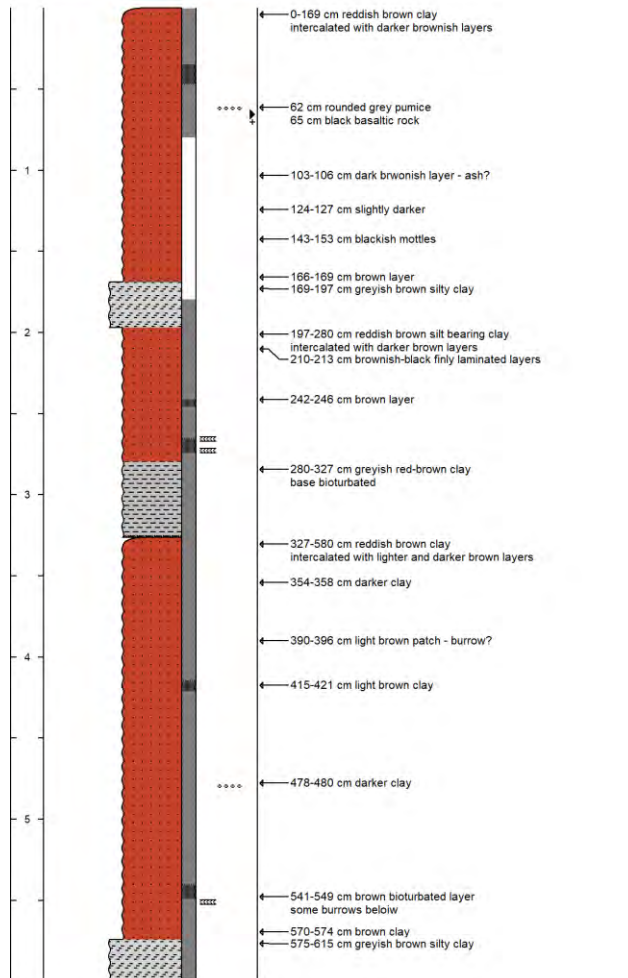
## Appendix 5.6.1 Lithology logs

**SO264-24-3**

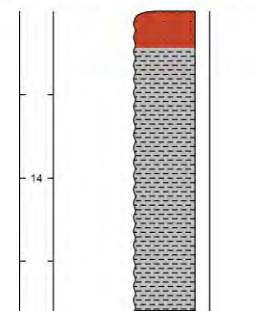
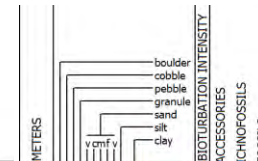
Date Logged: July 26, 2018

Logged by: T. Ronge

Remarks: 44°48,061'N 170°35,877'E 4295 mbsl



REMARKS



REMARKS

## SO264 Cruise Report

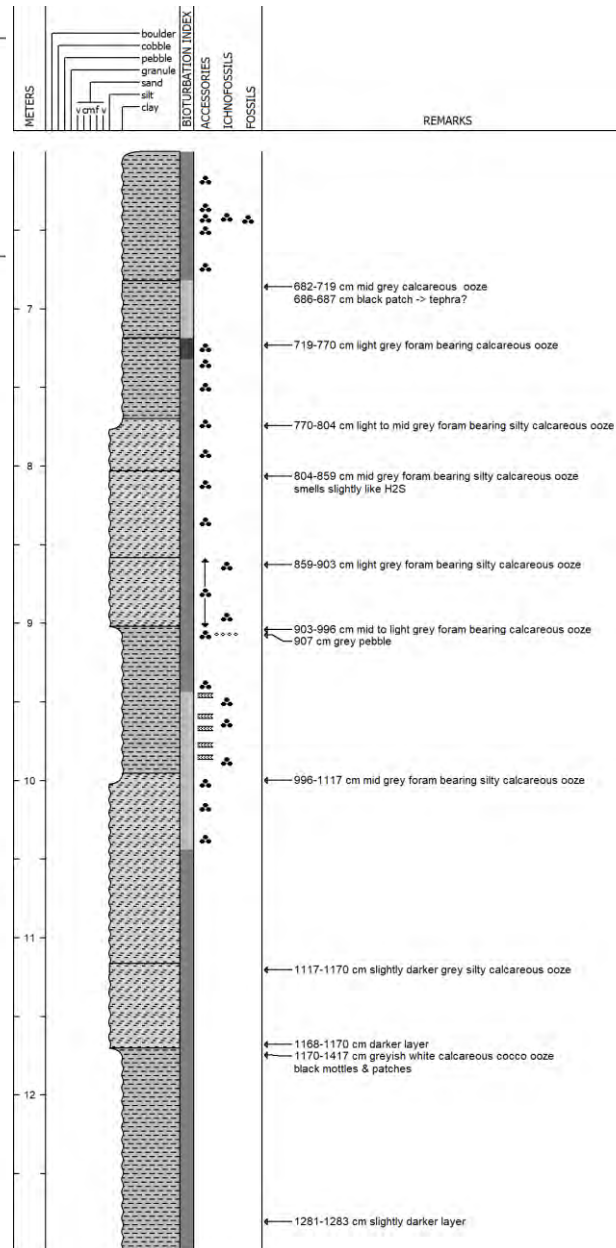
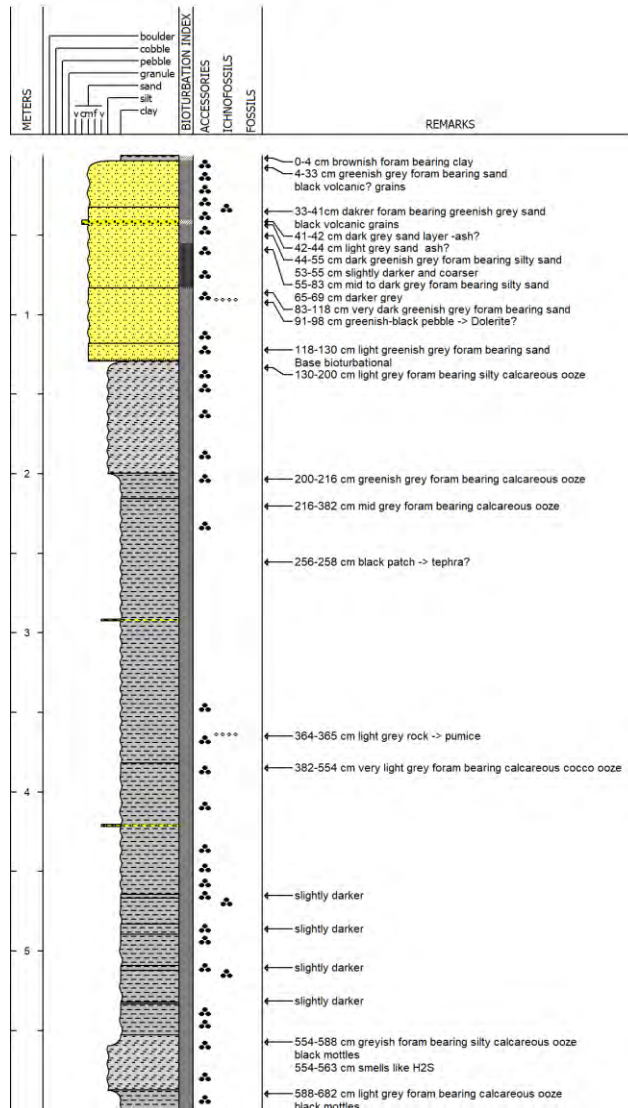
## Appendix 5.6.1 Lithology logs

**SO264-26-2**

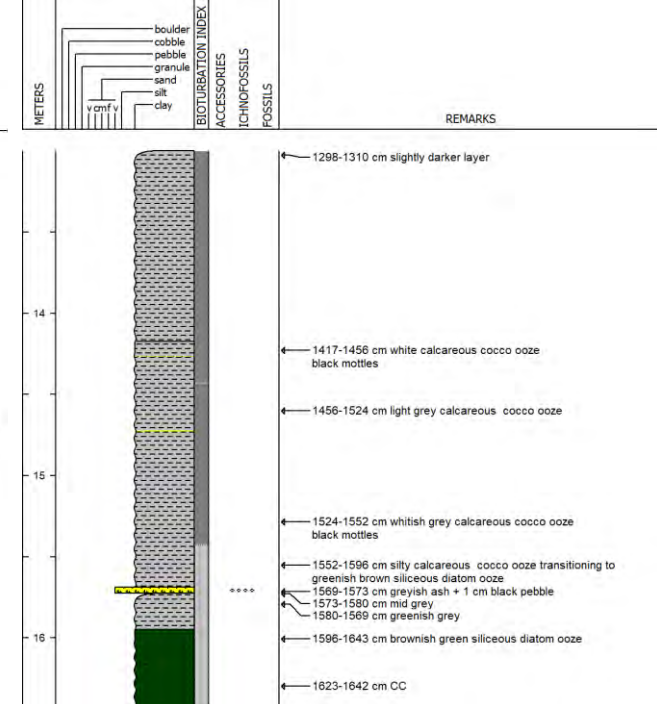
Date Logged: July 23, 2018

Logged by: T. Ronge

Remarks: 44°46,412'N 170°10,325'E 1771 mbsl



## SO264 Cruise Report



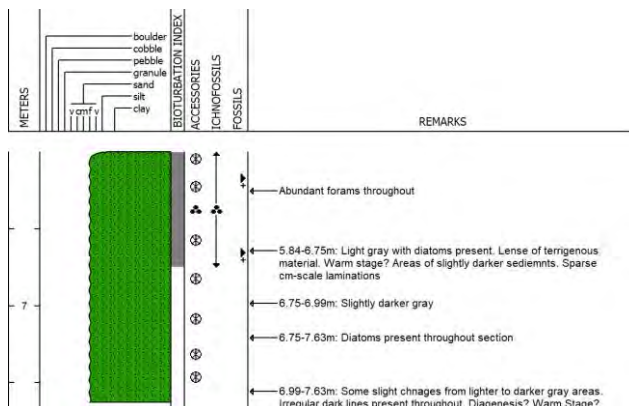
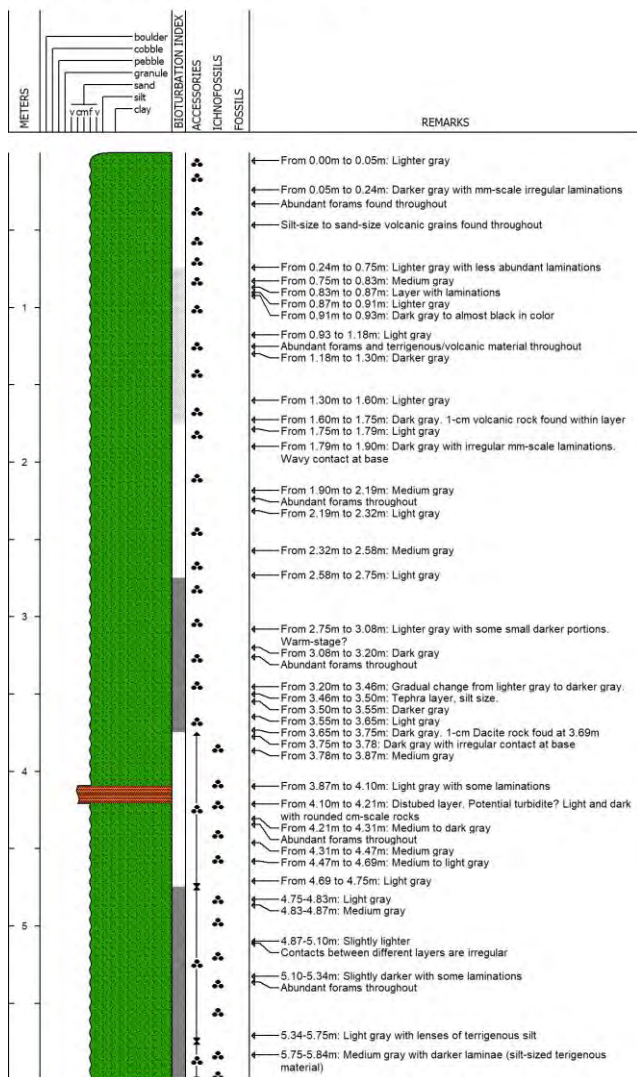
## Appendix 5.6.1 Lithology logs

**SO264-28-2**

Date Logged: July 27, 2018

Logged by: C. Karas

Remarks: 44°51,546'N 170°03,983'E 1935 mbsl



## SO264 Cruise Report



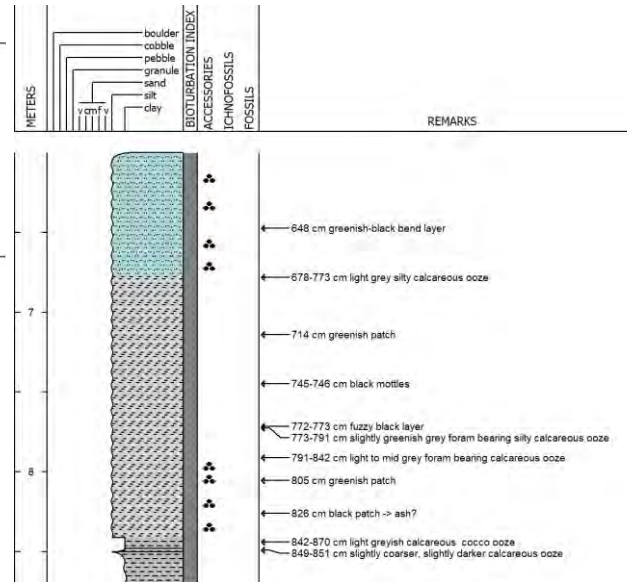
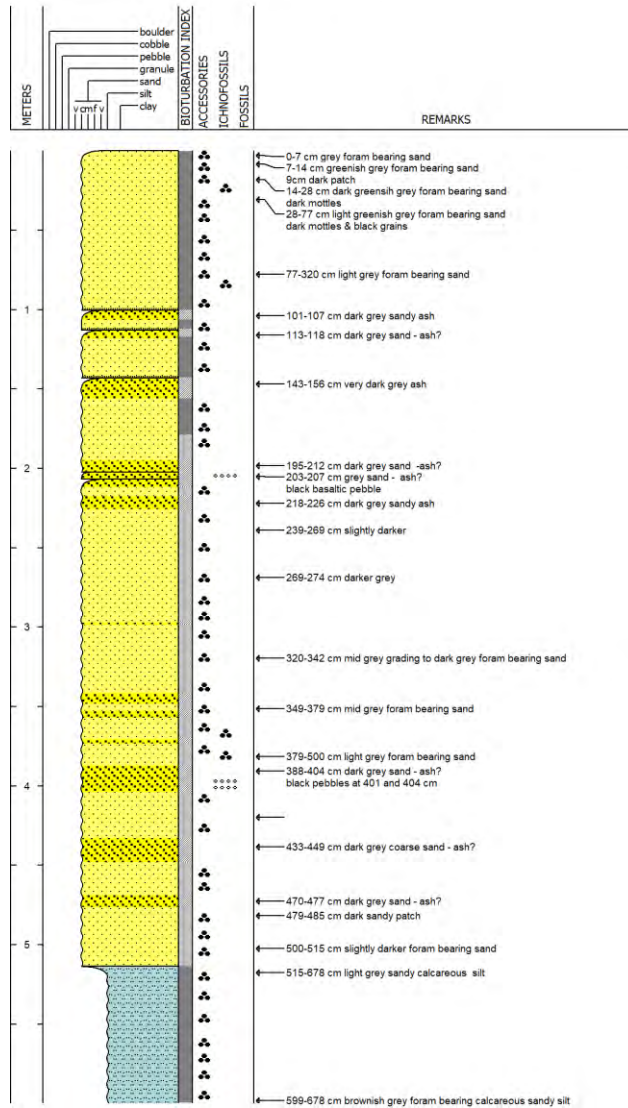
## Appendix 5.6.1 Lithology logs

**SO264-29-1**

Date Logged: July 24, 2018

Logged by: T. Ronge

Remarks: 44°52,030'N 170°03,835'E 1966 mbsl



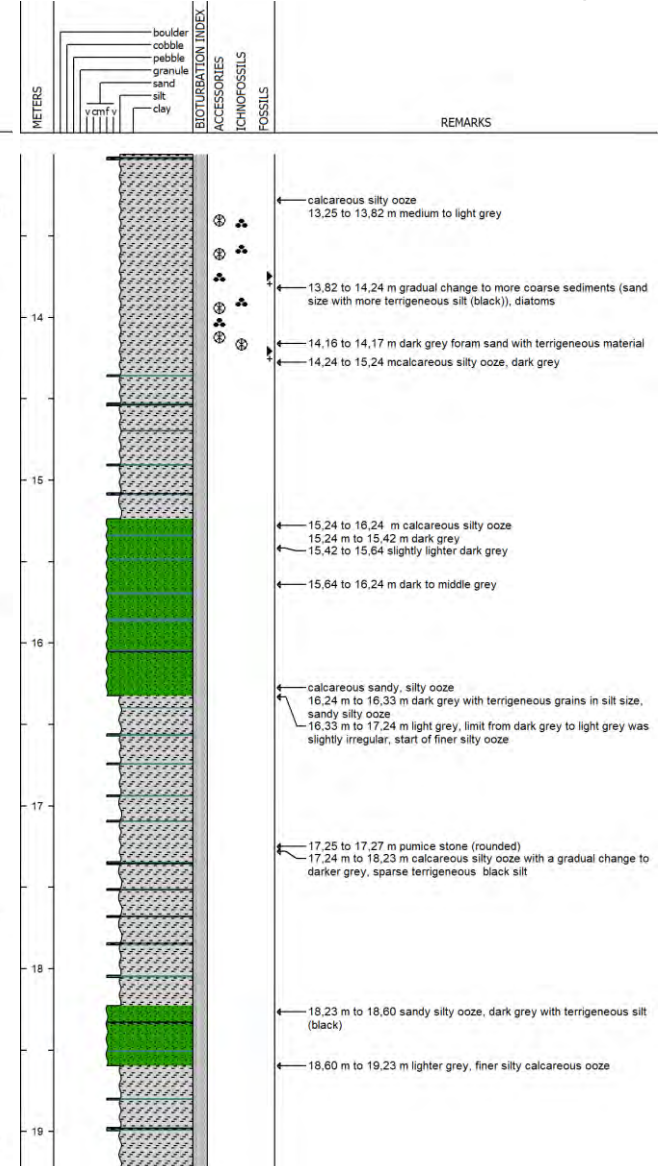
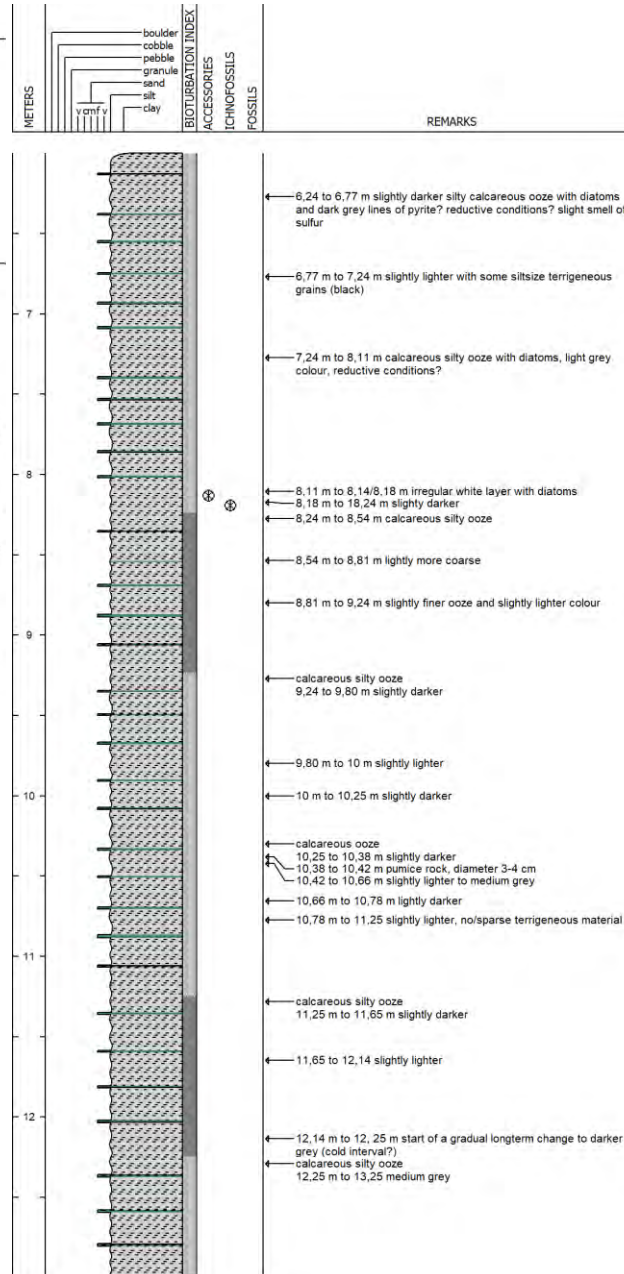
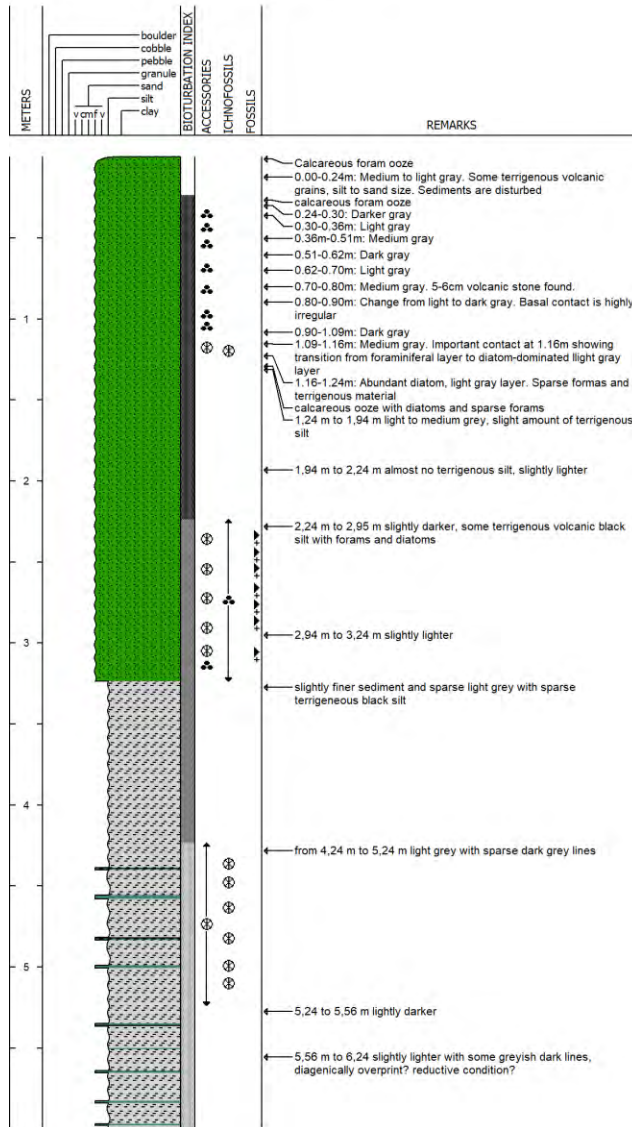
## Appendix 5.6.1 Lithology logs

**SO264-30-2**

Date Logged: Juli 28, 2018

Logged by: C. Karas

Remarks: 44°46,465'N 170°01,090'E 1857 mbsl



## SO264 Cruise Report

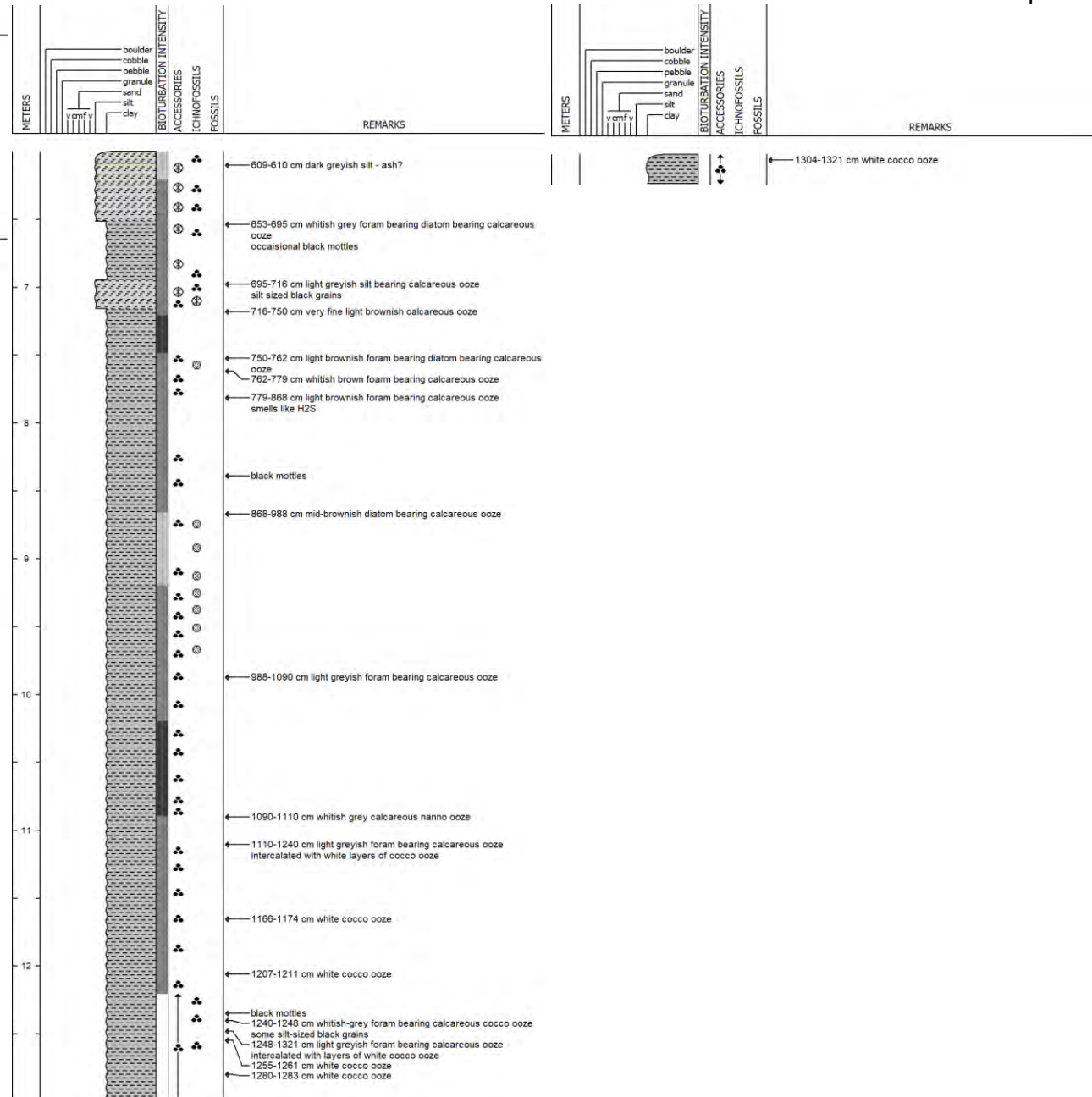
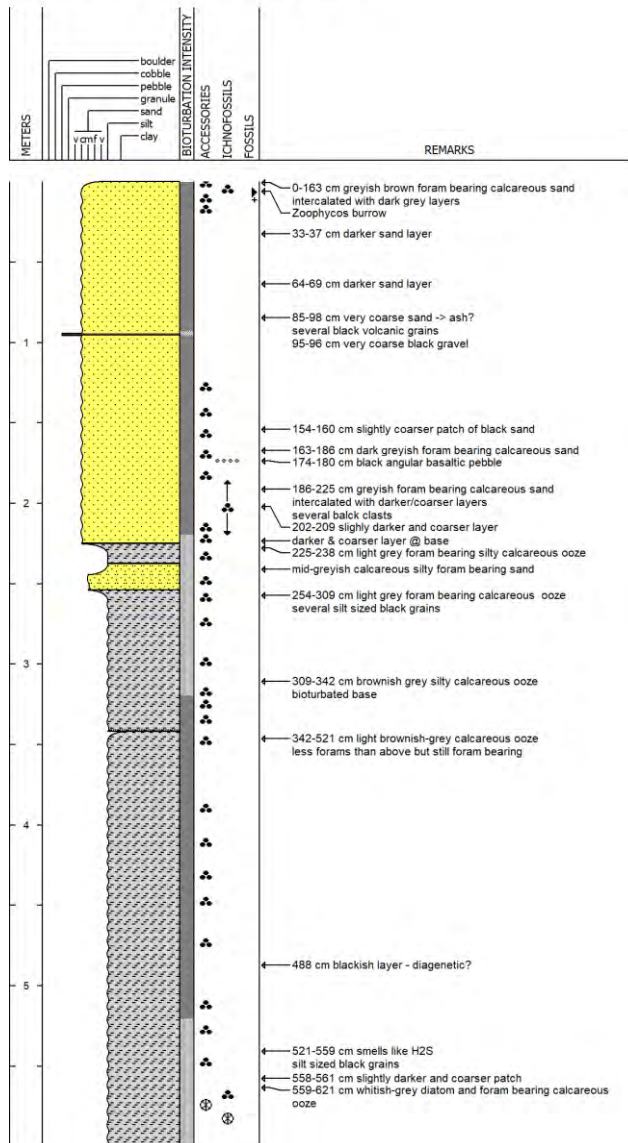
## Appendix 5.6.1 Lithology logs

**SO264-31-1**

Date Logged: July 27, 2018

Logged by: T. Ronge

Remarks: 44°51,161'N 170°07,650'E 1942 mbsl



SO264 Cruise Report



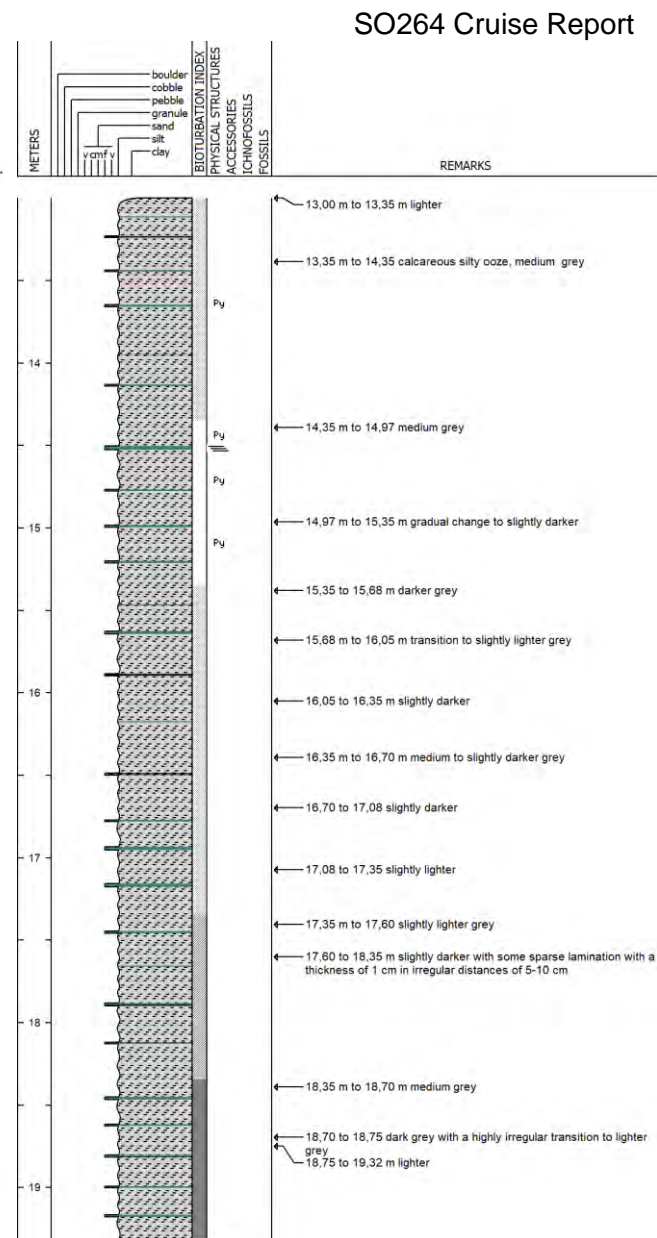
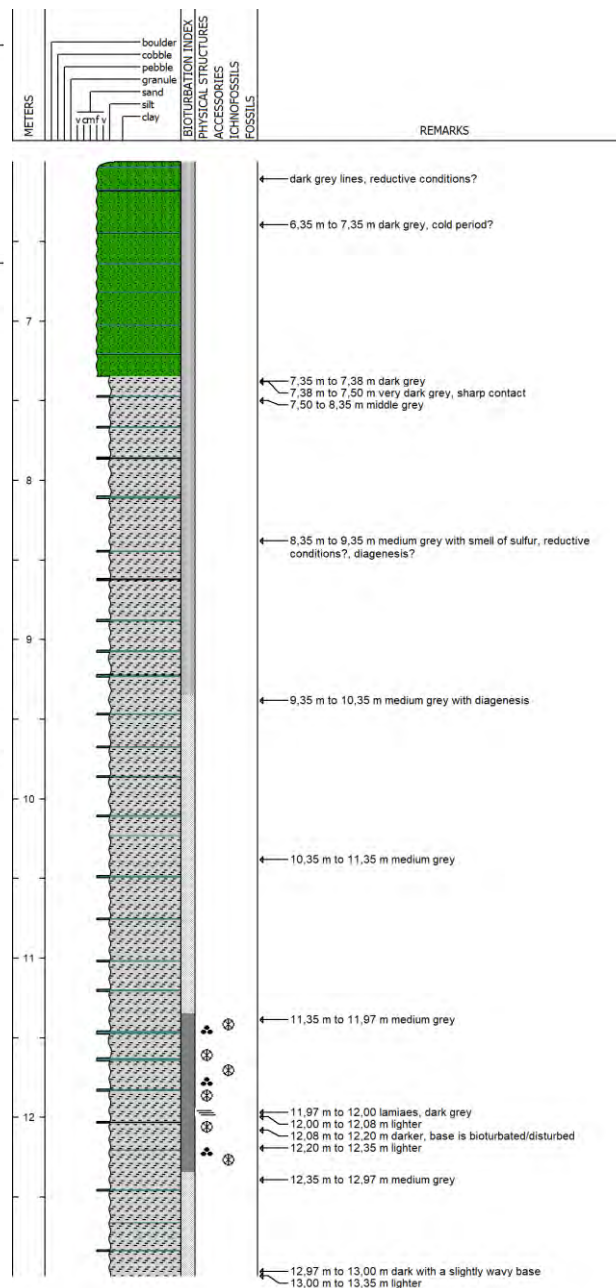
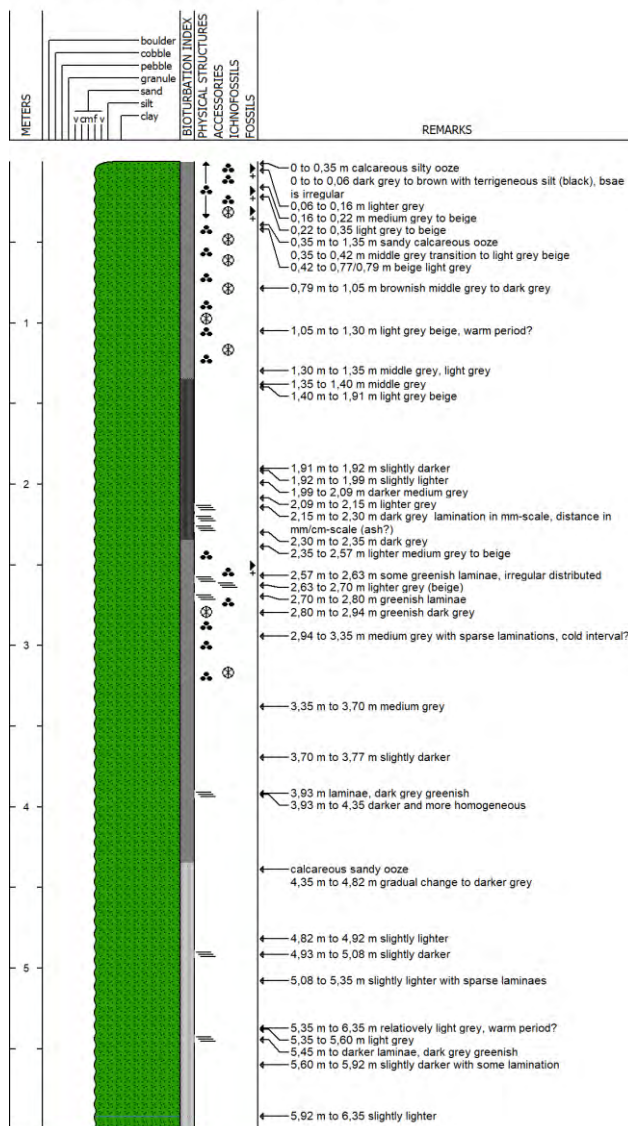
## Appendix 5.6.1 Lithology logs

**SO264-32-2**

Date Logged: July 17, 2018

Logged by: C. Karas

Remarks: 44°59,780'N 170°24,280'E 3200 mbsl



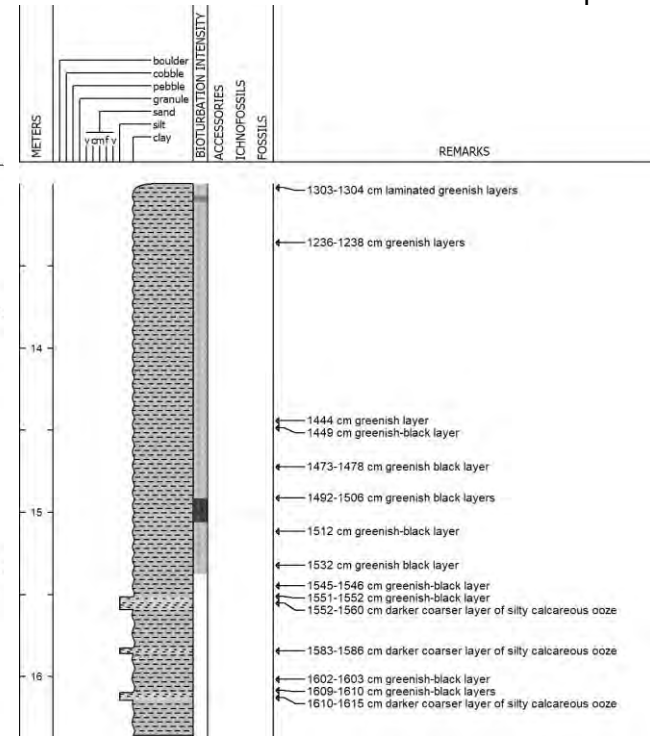
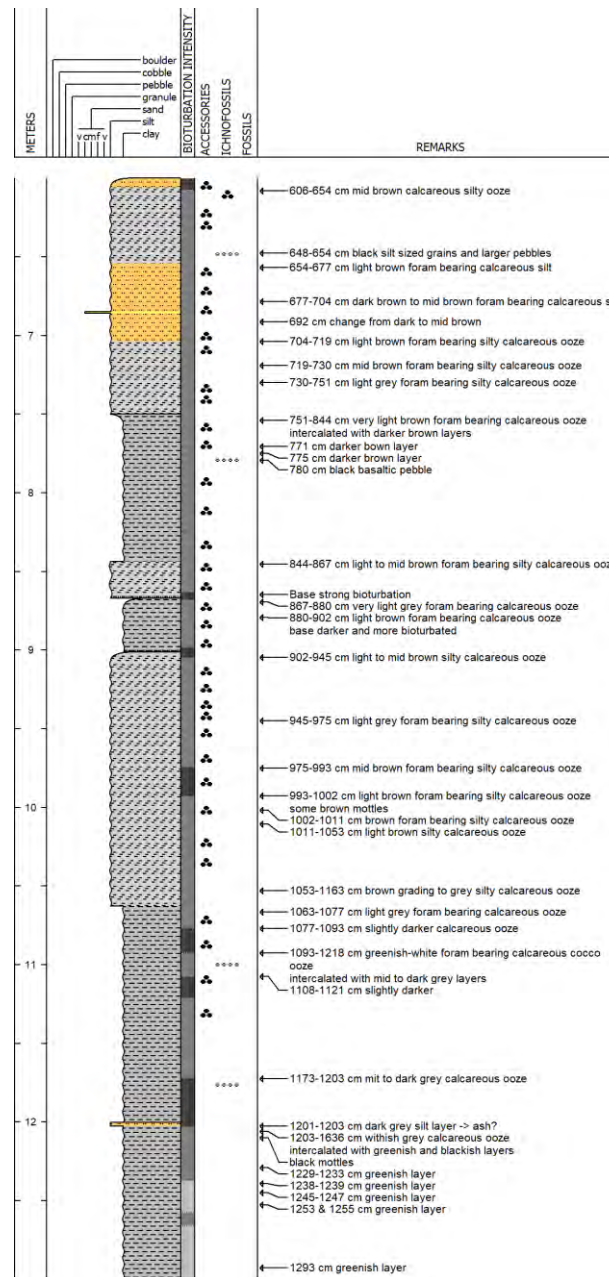
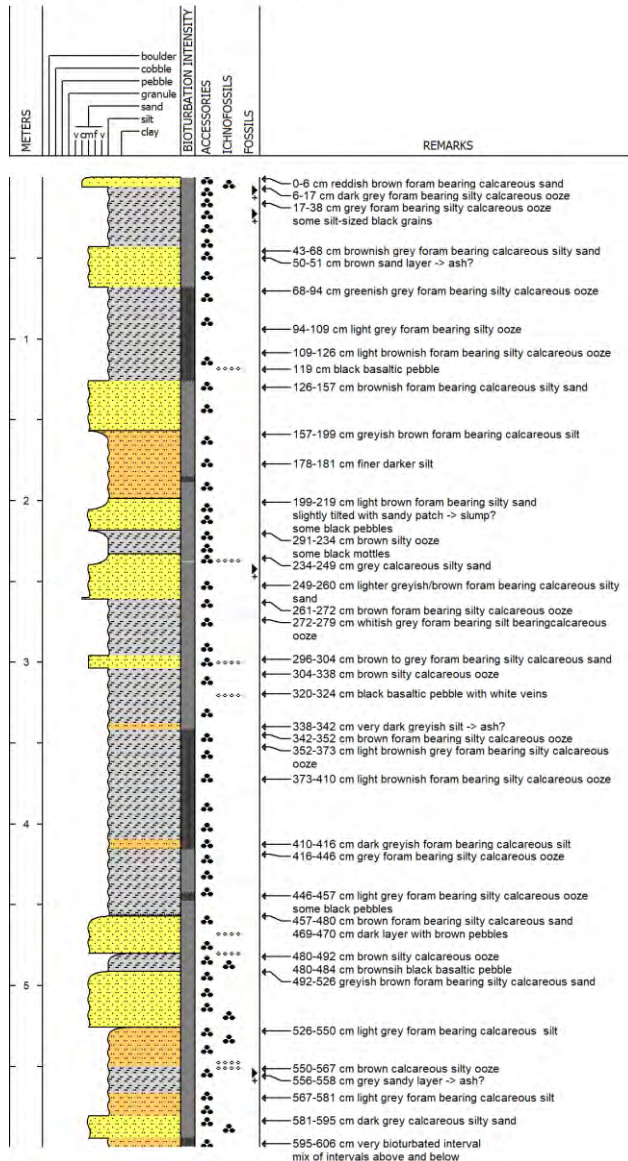
## Appendix 5.6.1 Lithology logs

**SO264-33-2**

Date Logged: July 26, 2018

Logged by: T. Ronge

Remarks: 44°58,290'N 170°21,024'E 3141 mbsl



## SO264 Cruise Report



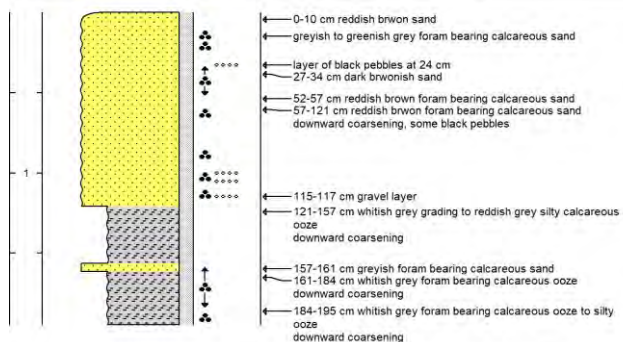
## Appendix 5.6.1 Lithology logs

### SO264-34-2

Date Logged: July 27, 2018

Logged by: T. Ronge

Remarks: 45°01,852'N 170°13,553'E 2622 mbsl

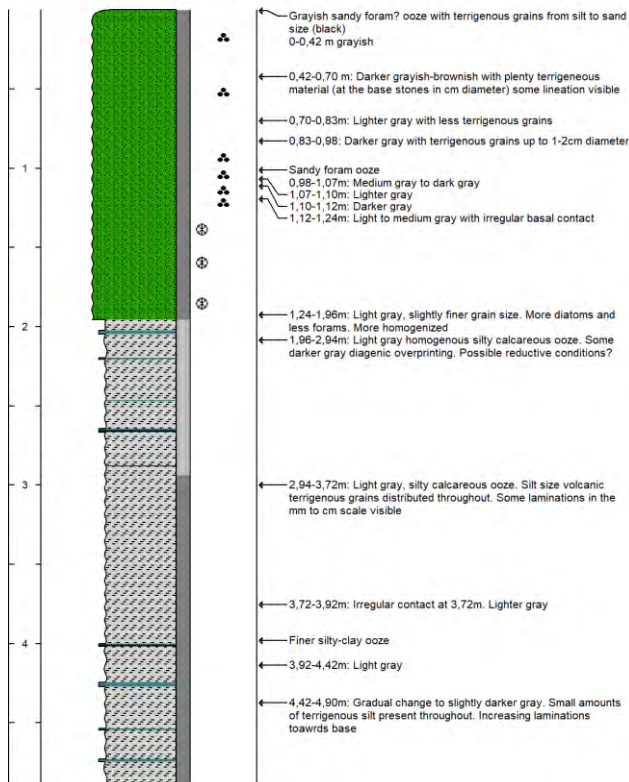


### SO264-36-1 (BC)

Date Logged: July 28, 2018

Logged by: C. Karas

Remarks: 44°46,409'N 170°10,319'E 1771 mbsl



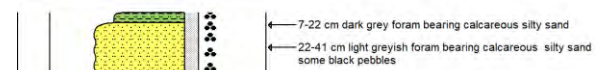
## SO264 Cruise Report

### SO264-38-1 (=36) GKG

Date Logged: July 30, 2018

Logged by: T. Ronge

Remarks: 44°46,414'N 170°10,317'E 1771 mbsl





## Appendix 5.6.1 Lithology logs

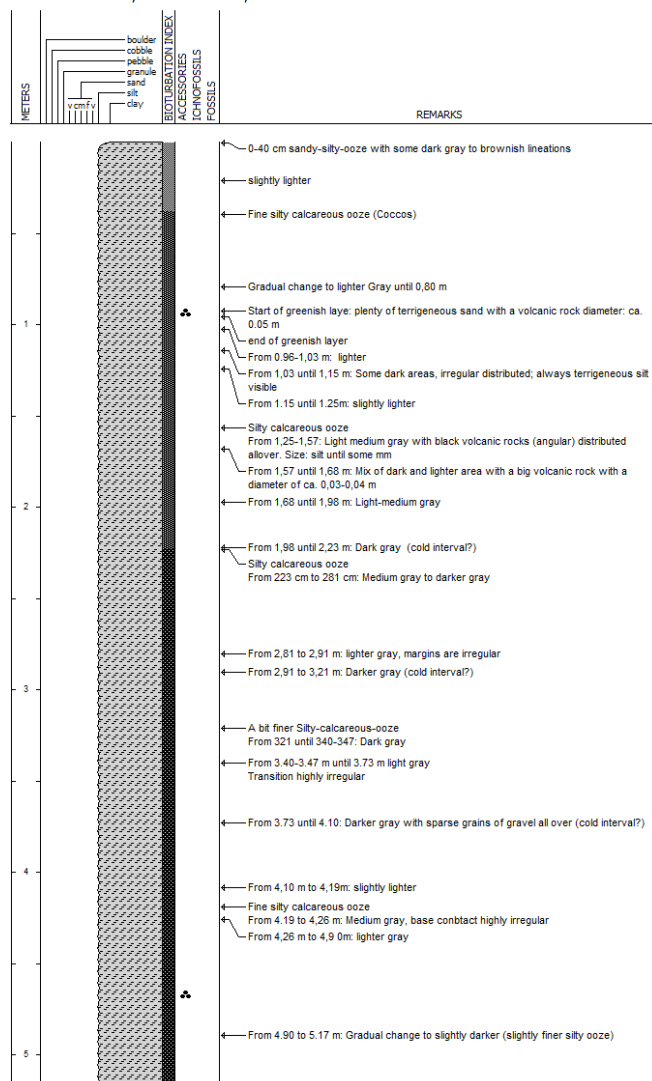
## SO264 Cruise Report

### SO264-39-1 (BC)

Date Logged: July 28, 2018

Logged by: C. Karas

Remarks: 44° 58, 290 N 170° 21, 025 E

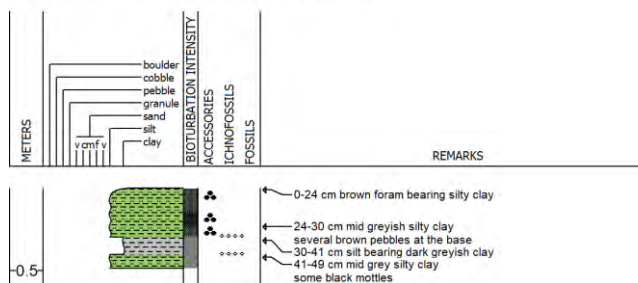


### SO264-39-3 GKG

Date Logged: July 30, 2018

Logged by: T. Ronge

Remarks: 44°58,295'N 170°21,025'E 3142 mbsl



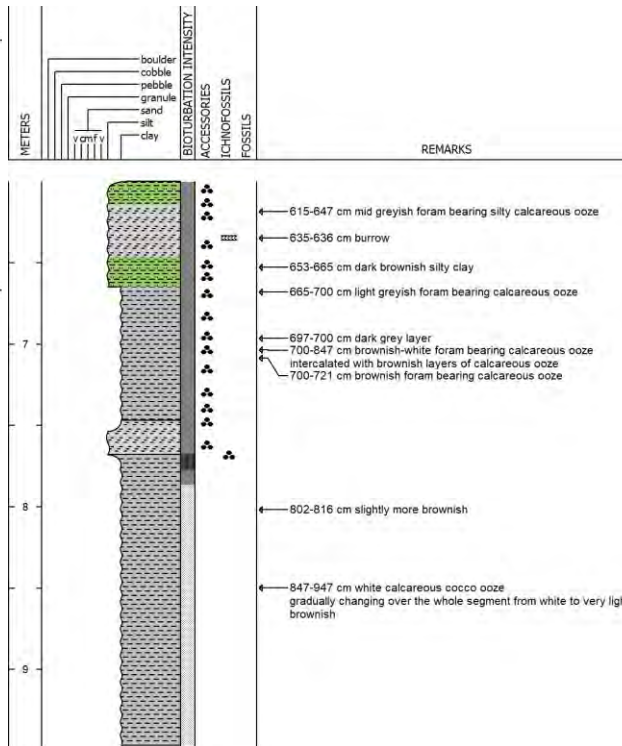
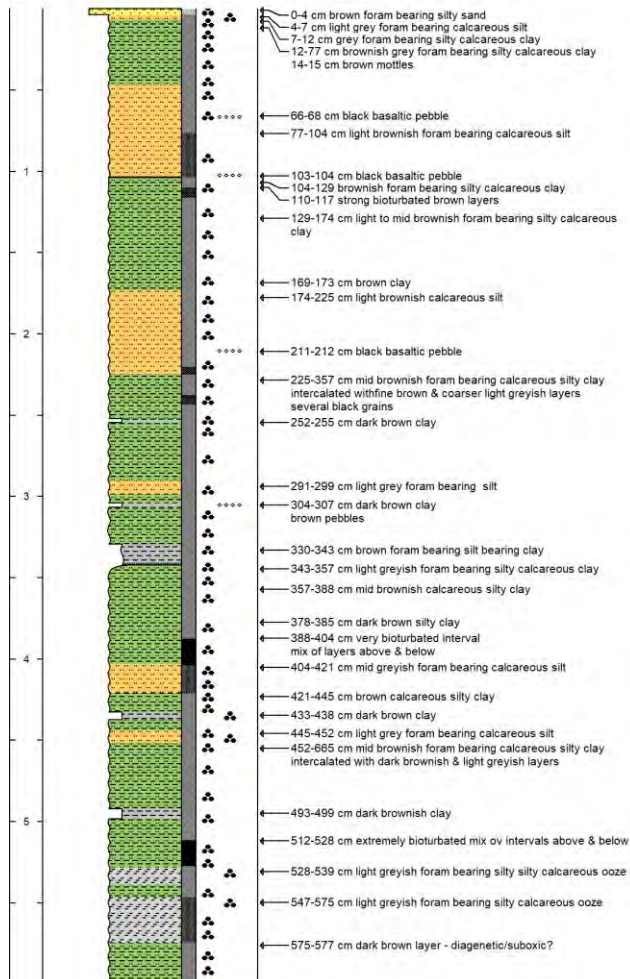
## Appendix 5.6.1 Lithology logs

**SO264-41-2**

Date Logged: July 30, 2018

Logged by: T. Ronge

Remarks: 45°41,942'N 170°09,300'E 3645 mbsl



## SO264 Cruise Report

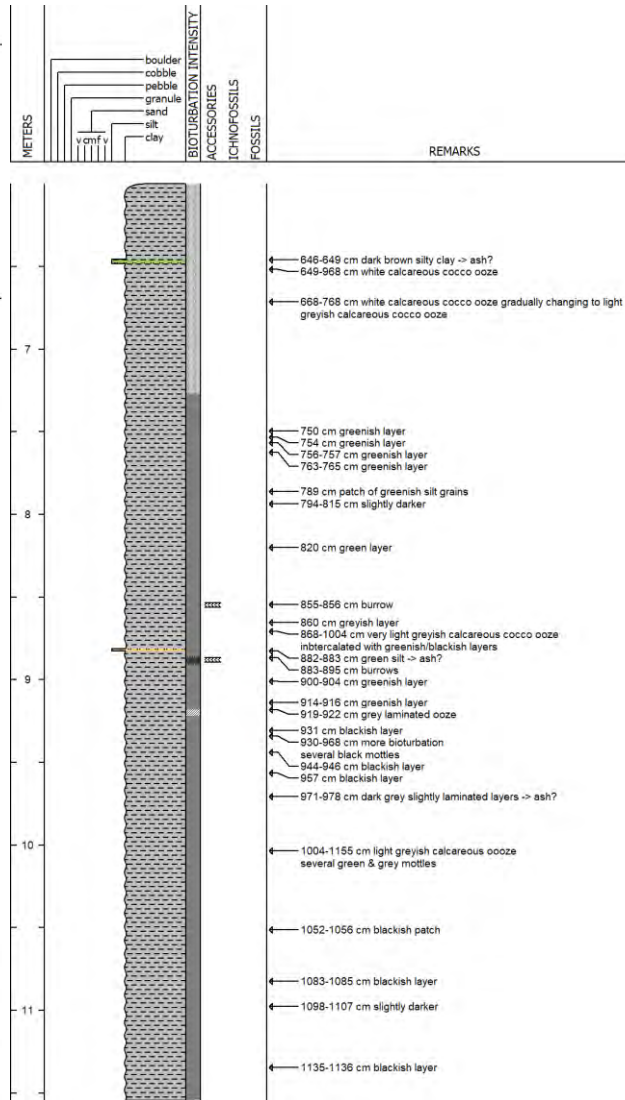
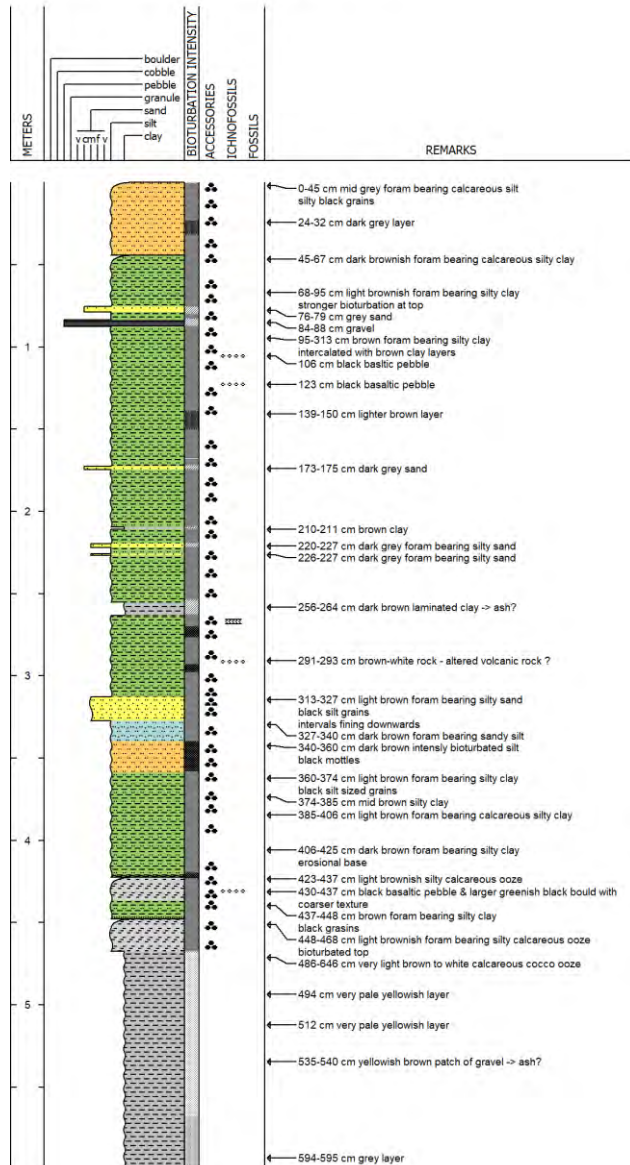
## Appendix 5.6.1 Lithology logs

**SO264-42-2**

Date Logged: July 31, 2018

Logged by: T. Ronge

Remarks: 46°06,576'N 169°07,193'E 3239 mbsl





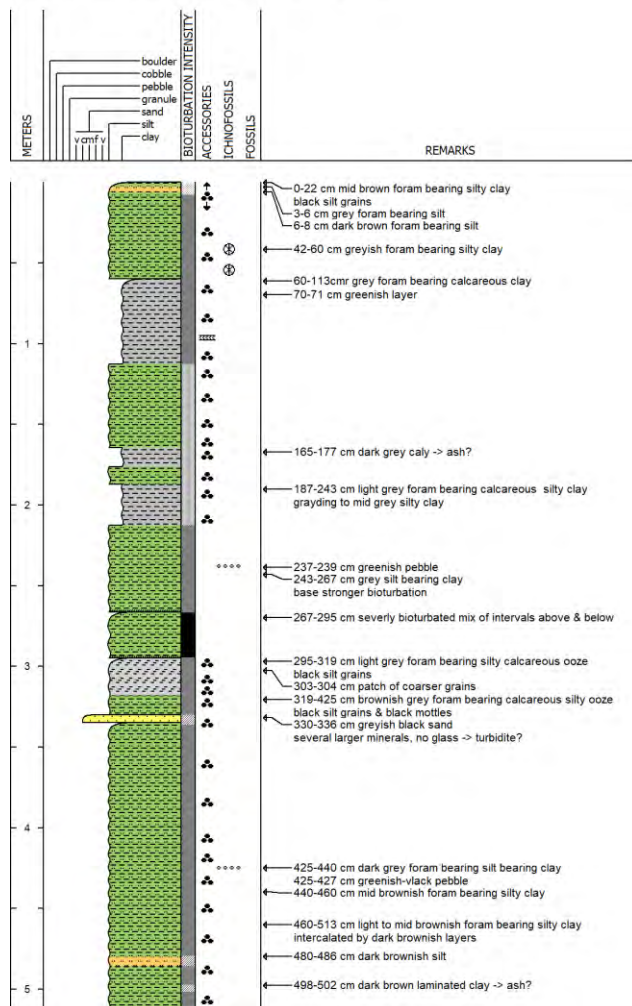
## Appendix 5.6.1 Lithology logs

**SO264-43-2**

Date Logged: July 31, 2018

Logged by: T. Ronge

Remarks: 46°06,576'N 169°07,193'E 3239 mbsl



SO264 Cruise Report

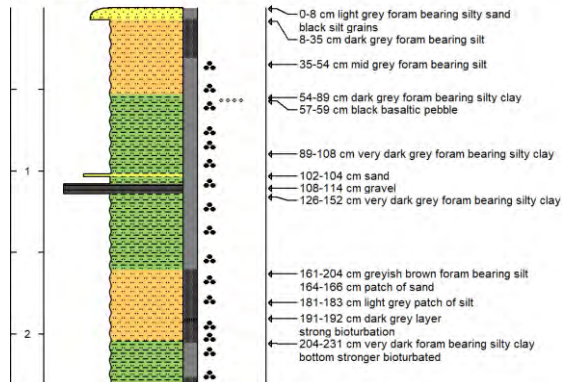
## Appendix 5.6.1 Lithology logs

### SO264-44-2

Date Logged: Aug 1, 2018

Logged by: T. Ronge

Remarks: 46°15,298'N 169°20,062'E 1893 mbsl

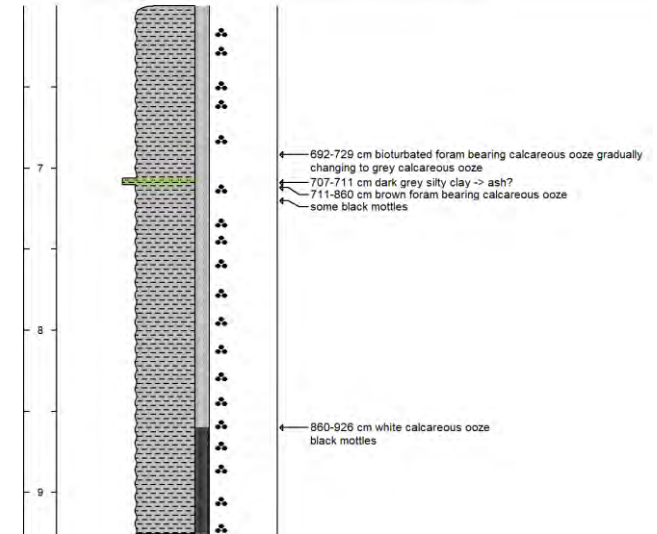
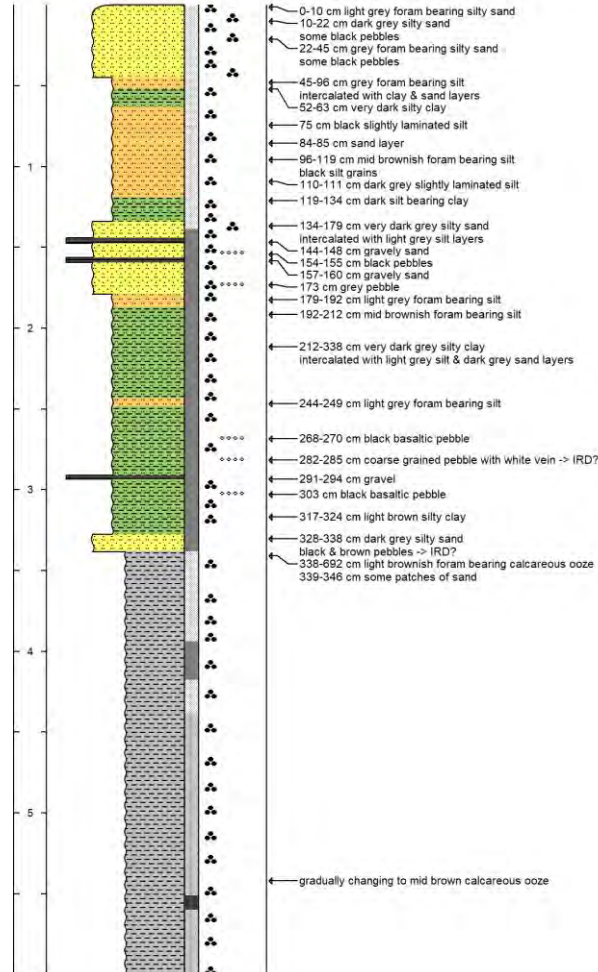


### SO264-44-3

Date Logged: Aug 1, 2018

Logged by: T. Ronge

Remarks: 46°15,307'N 169°20,064'E 1894 mbsl



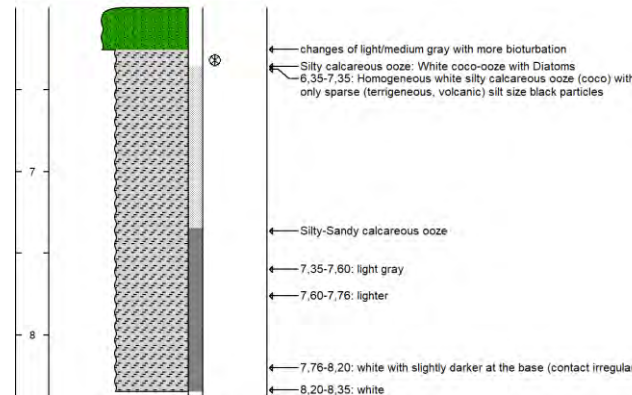
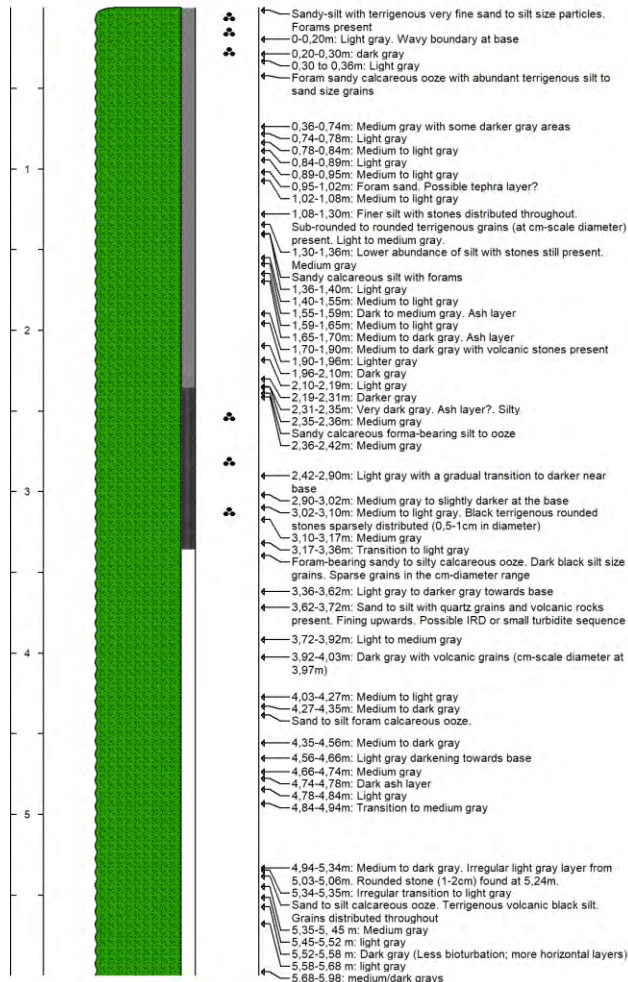
## Appendix 5.6.1 Lithology logs

**SO264-45-2**

Date Logged: Aug 10, 2018

Logged by: C. Karas

Remarks: 46°33,792'N 169°36,072'E 2425 mbsl



## SO264 Cruise Report



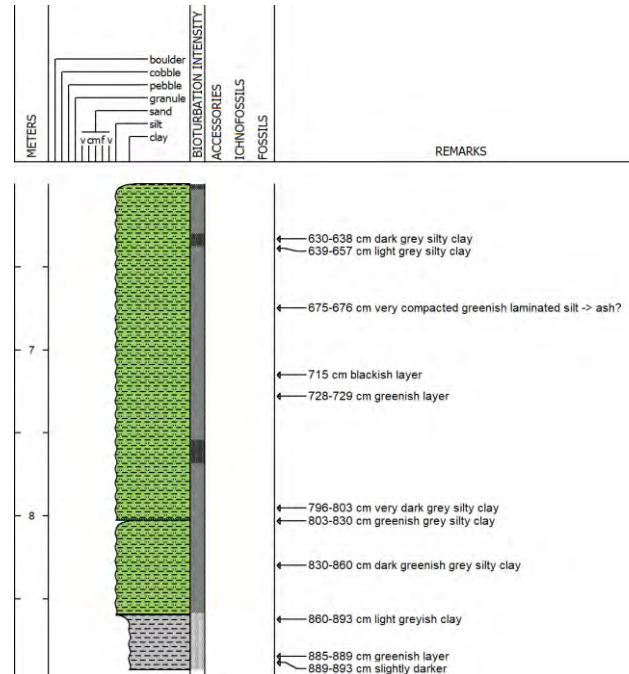
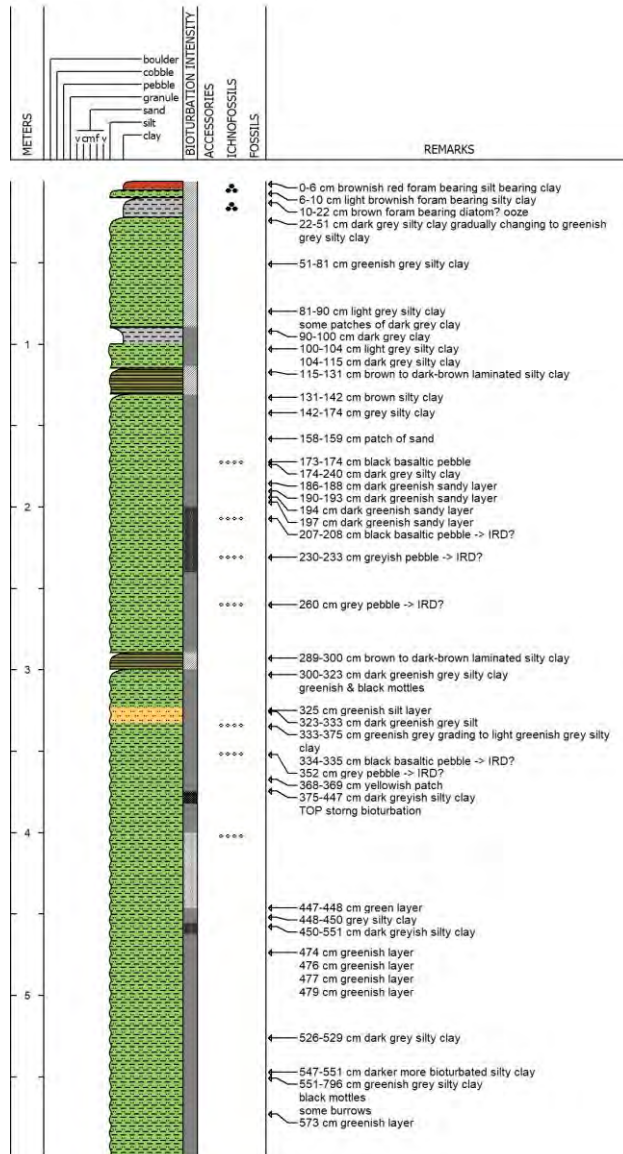
## Appendix 5.6.1 Lithology logs

**S0264-46-5**

Date Logged: Aug 2, 2018

Logged by: T. Ronge

Remarks: 46°48,941'N 169°24,661'E 3992 mbsl



## SO264 Cruise Report

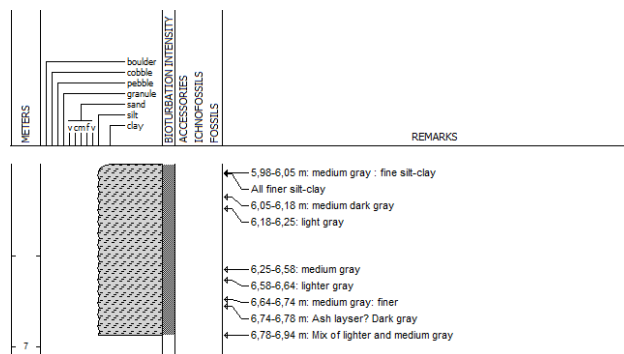
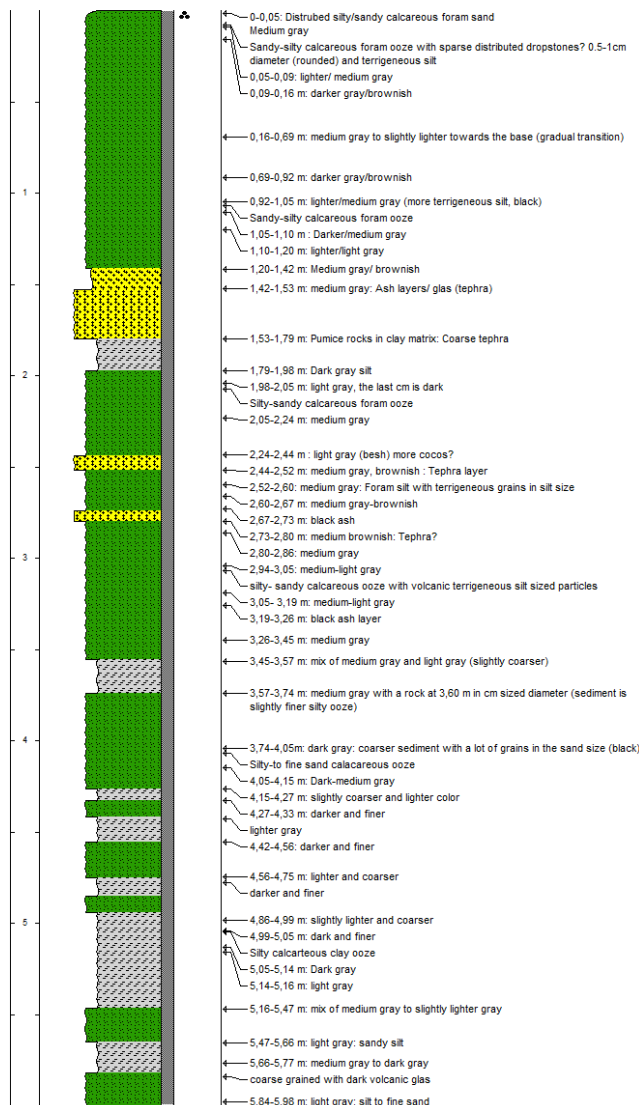
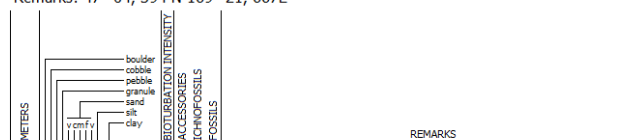
## Appendix 5.6.1 Lithology logs

**SO264-47-2**

Date Logged: July 2018

Logged by: C. Karas

Remarks: 47° 04, 394 N 169° 21, 667E



## SO264 Cruise Report

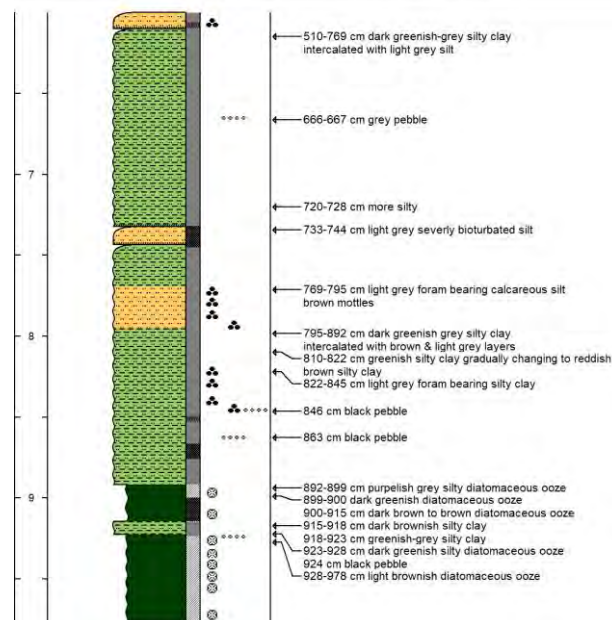
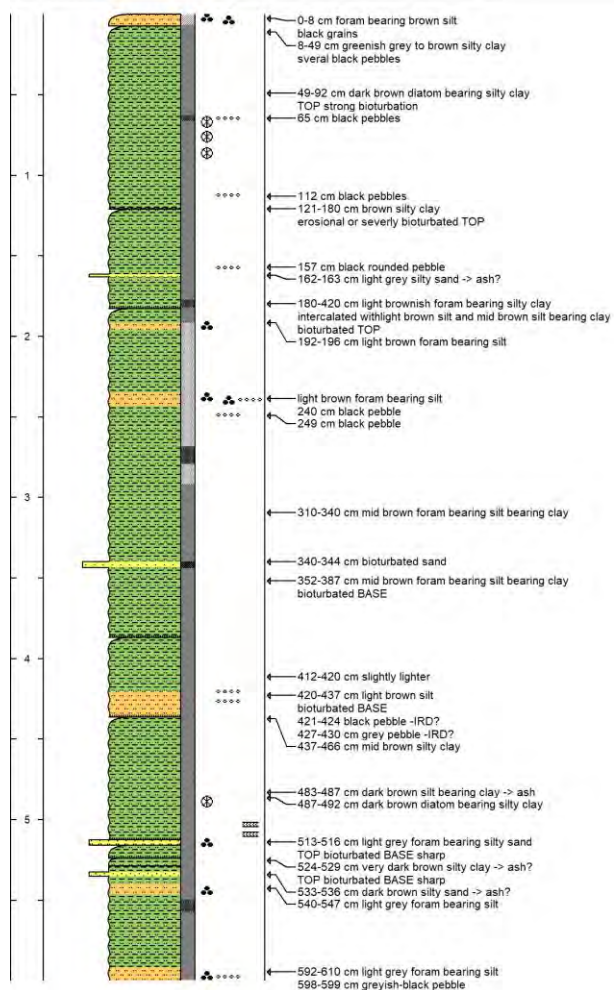
## Appendix 5.6.1 Lithology logs

**SO264-48-2**

Date Logged: Aug 4, 2018

Logged by: T. Ronge

Remarks: 47°58,505'N 169°03,878'E 2872 mbsl



## SO264 Cruise Report



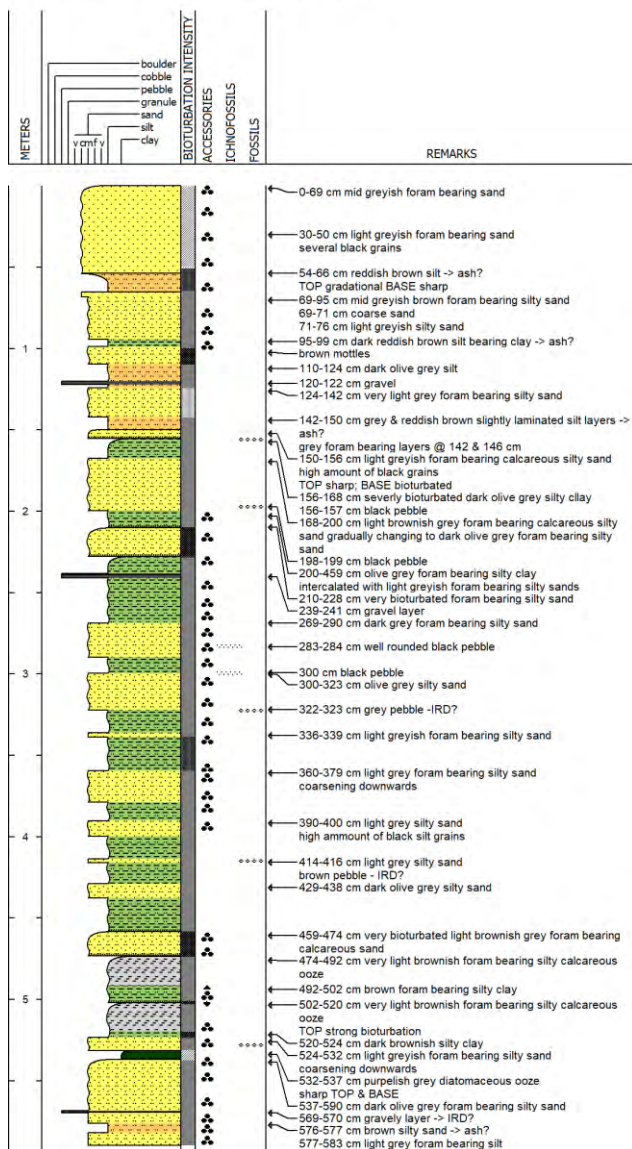
## Appendix 5.6.1 Lithology logs

**SO264-49-2**

Date Logged: Aug 4, 2018

Logged by: T. Ronge

Remarks: 47°40,869'N 169°01,419'E 2400 mbsl



## SO264 Cruise Report

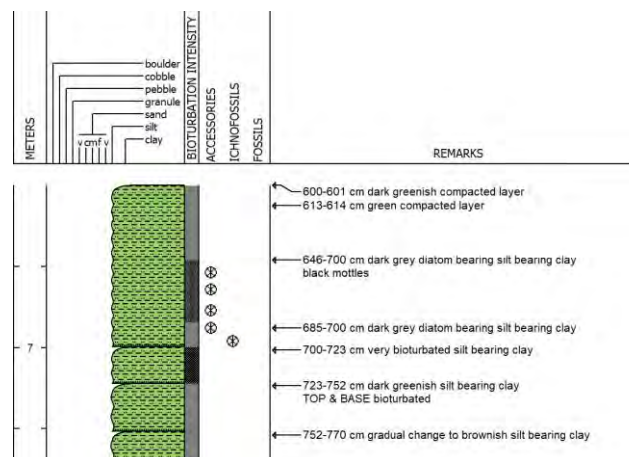
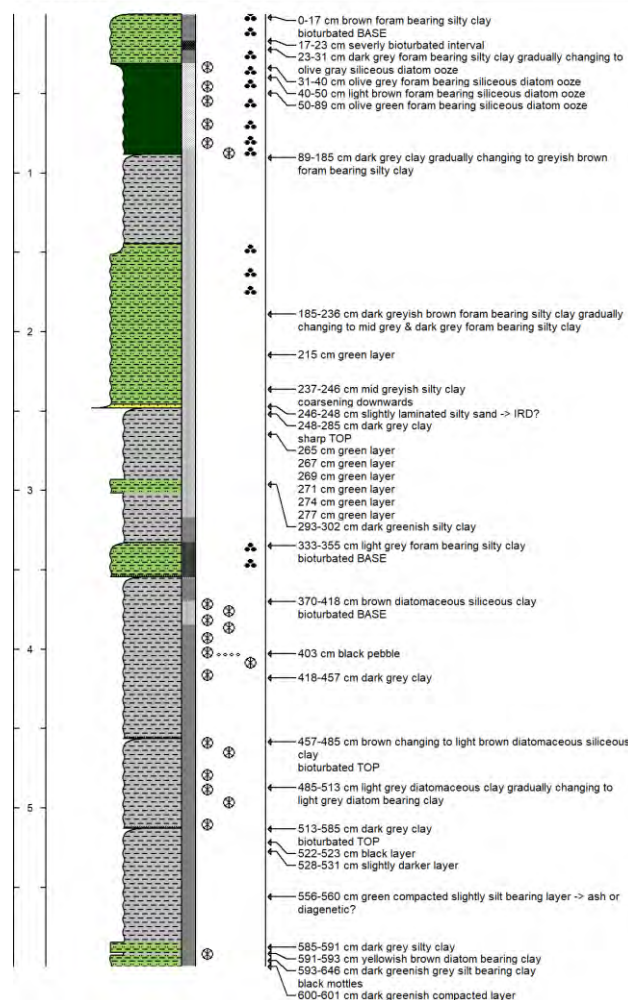
## Appendix 5.6.1 Lithology logs

**SO264-51-2**

Date Logged: Aug 5, 2018

Logged by: T. Ronge

Remarks: 47°10,547'N 169°25,282'E 2933 mbsl



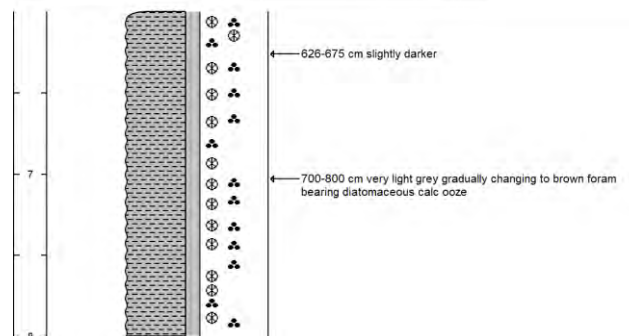
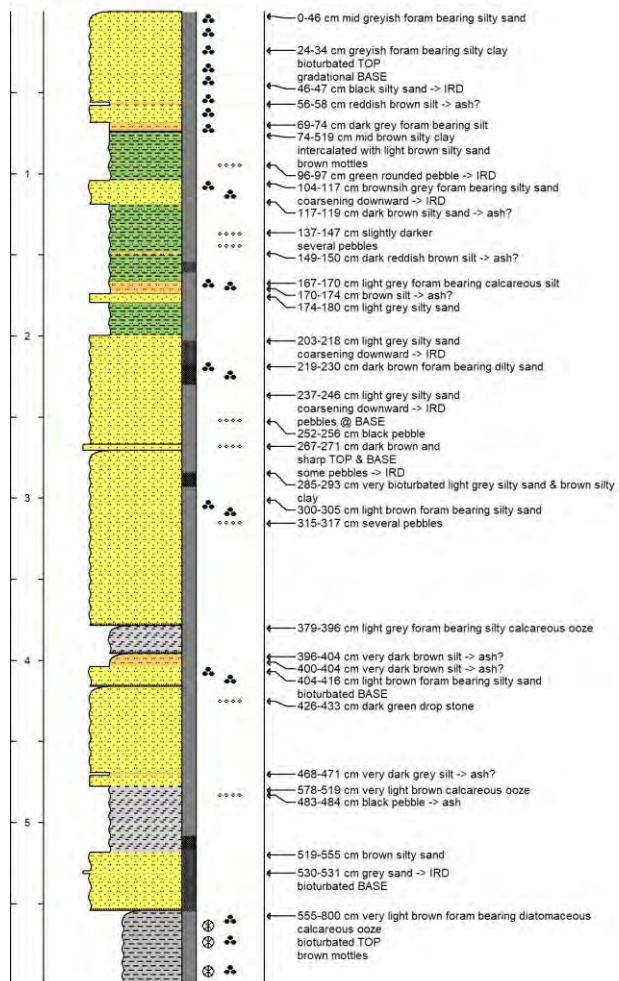
## Appendix 5.6.1 Lithology logs

**SO264-52-2**

Date Logged: Aug 7, 2018

Logged by: T. Ronge

Remarks: 47°07,273'N 169°09,874'E 2752 mbsl





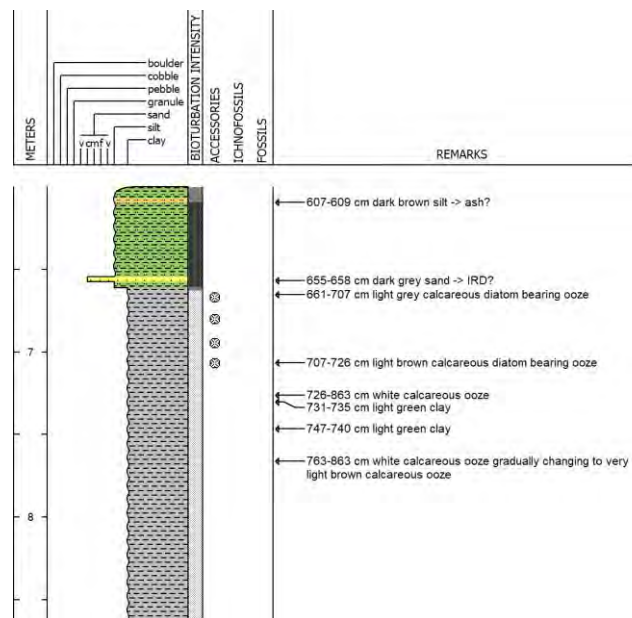
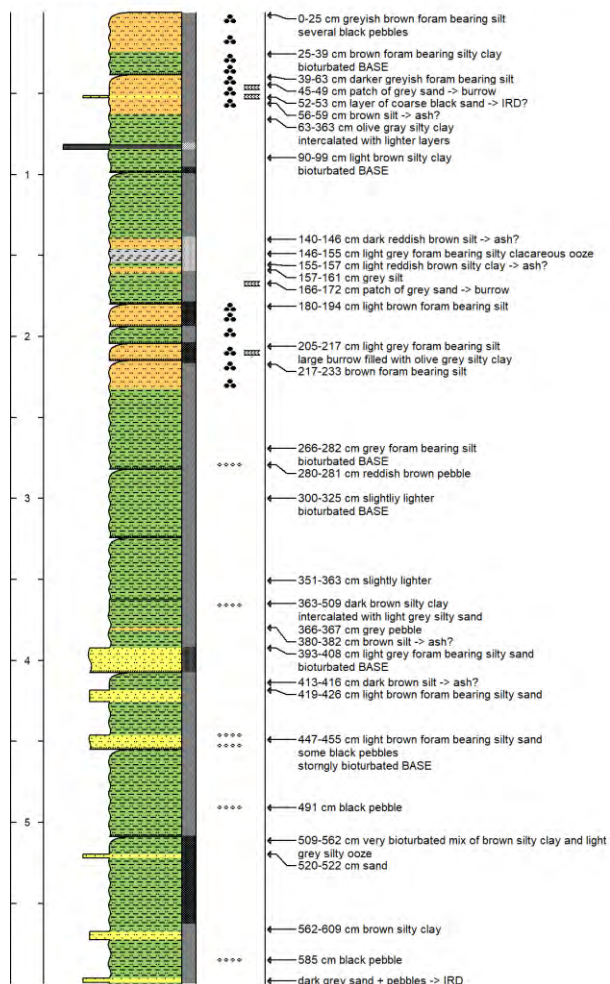
## Appendix 5.6.1 Lithology logs

**SO264-53-2**

Date Logged: Aug 7, 2018

Logged by: T. Ronge

Remarks: 47°38,931'N 169°20,417'E 2325 mbsl



## SO264 Cruise Report

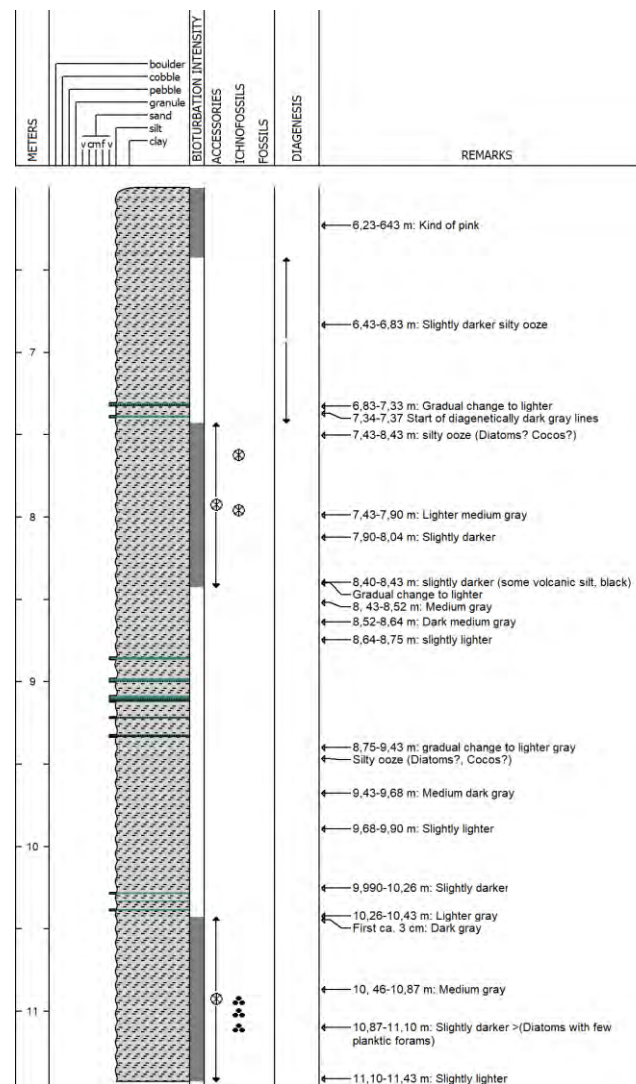
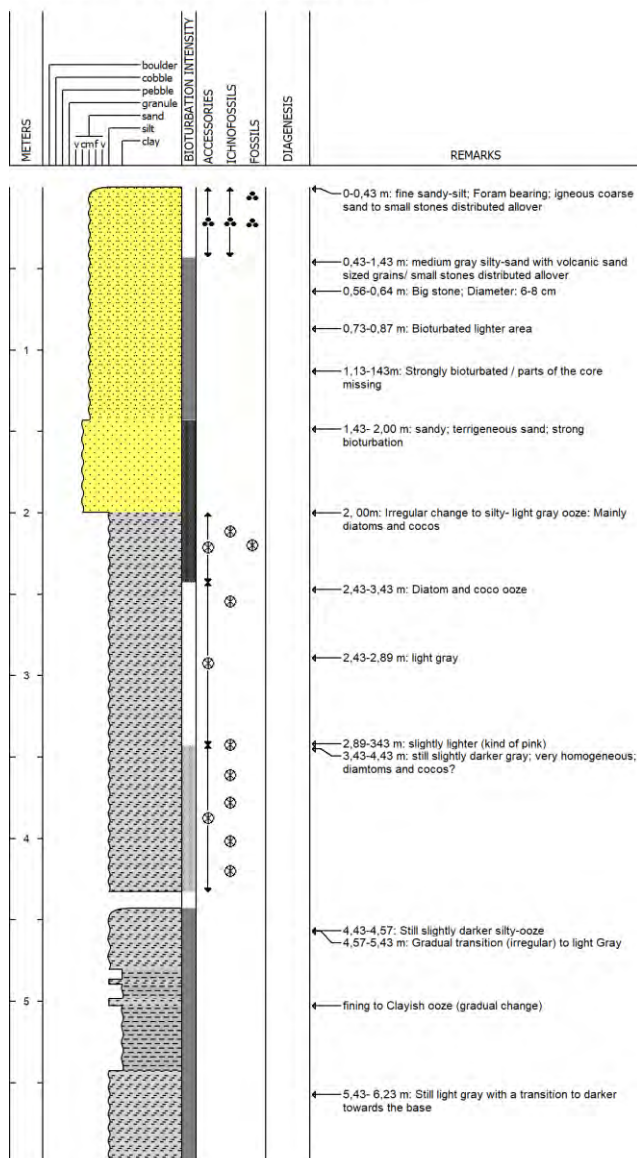
## Appendix 5.6.1 Lithology logs

**SO264-54-2**

Date Logged: Aug 2018

Logged by: C. Karas

Remarks: 47°37,318'N 169°14,852'E 2139 mbsl



## SO264 Cruise Report

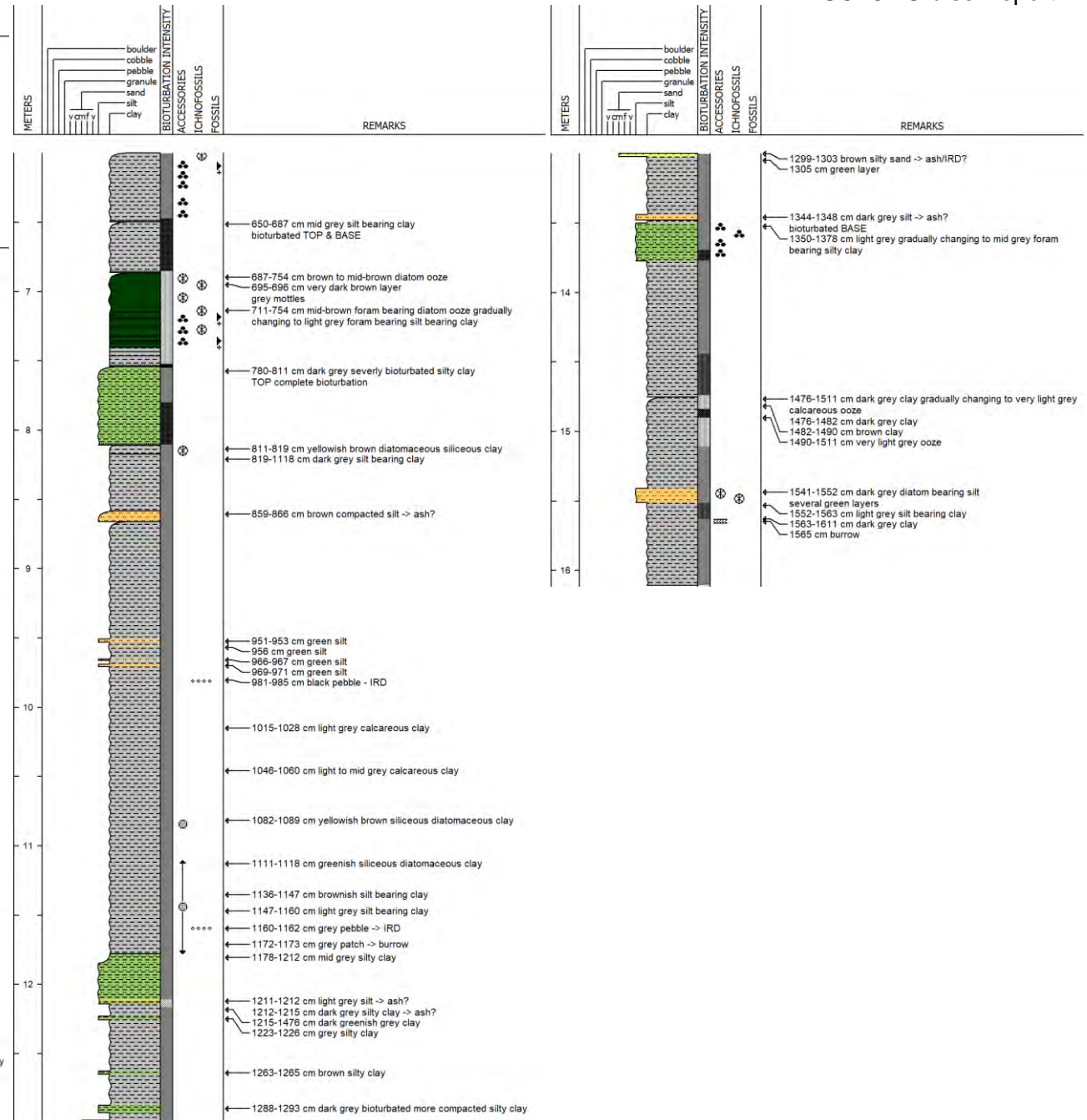
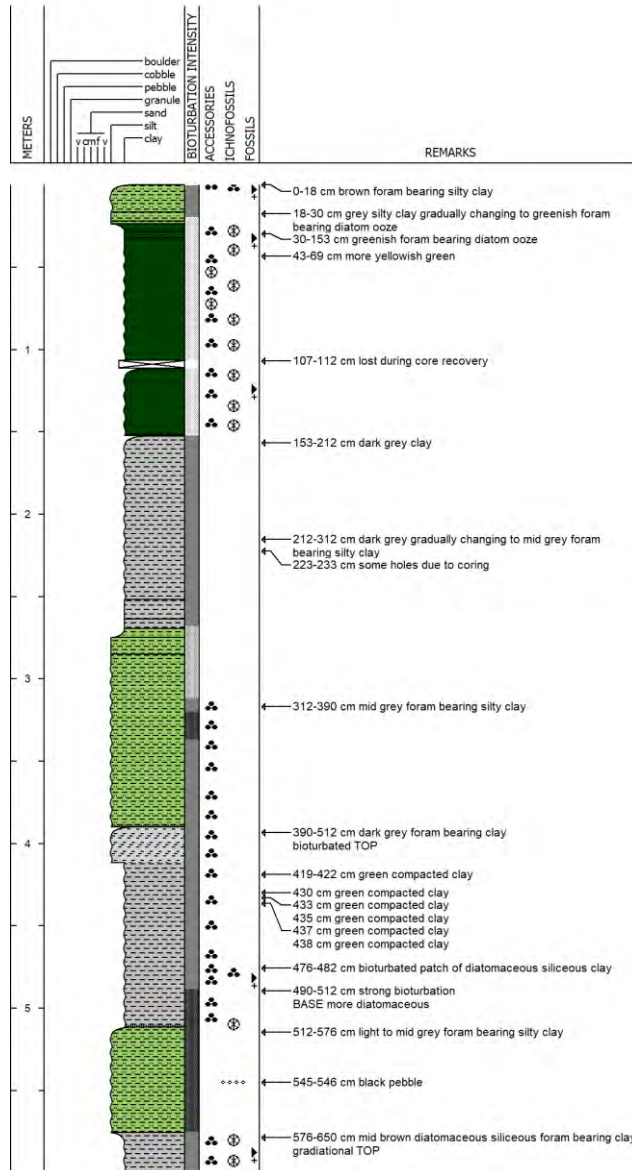
## Appendix 5.6.1 Lithology logs

**SO264-55-1**

Date Logged: Aug 7, 2018

Logged by: T. Ronge

Remarks: 47°10,542'N 169°25,292'E 2936 mbsl



## SO264 Cruise Report



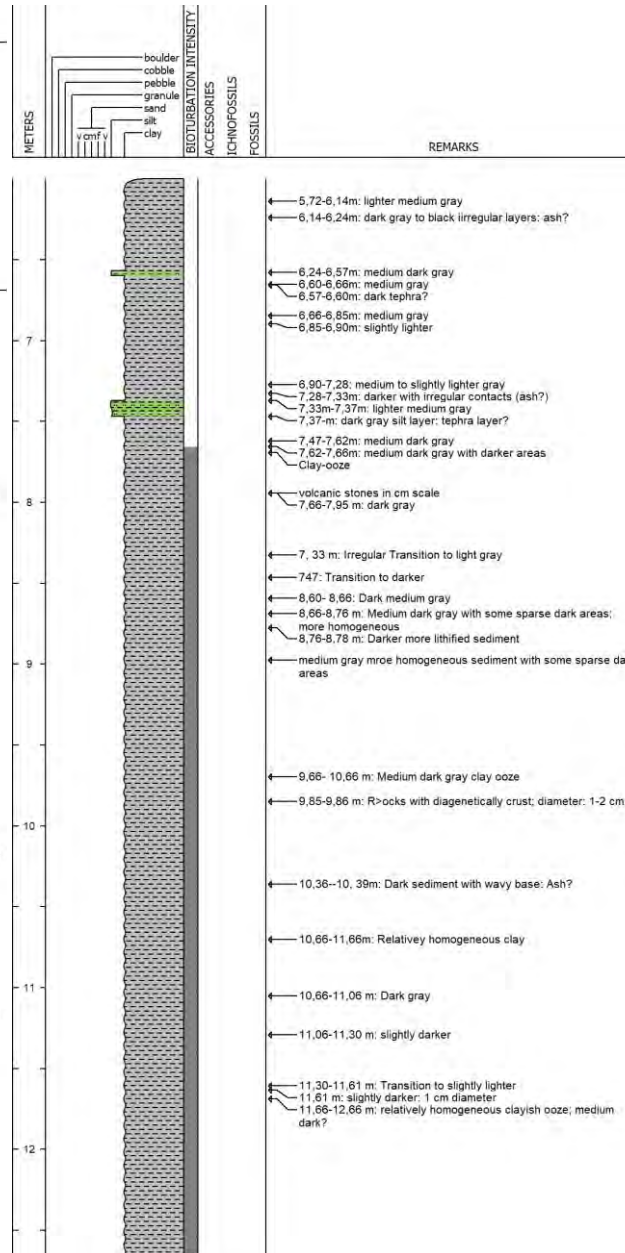
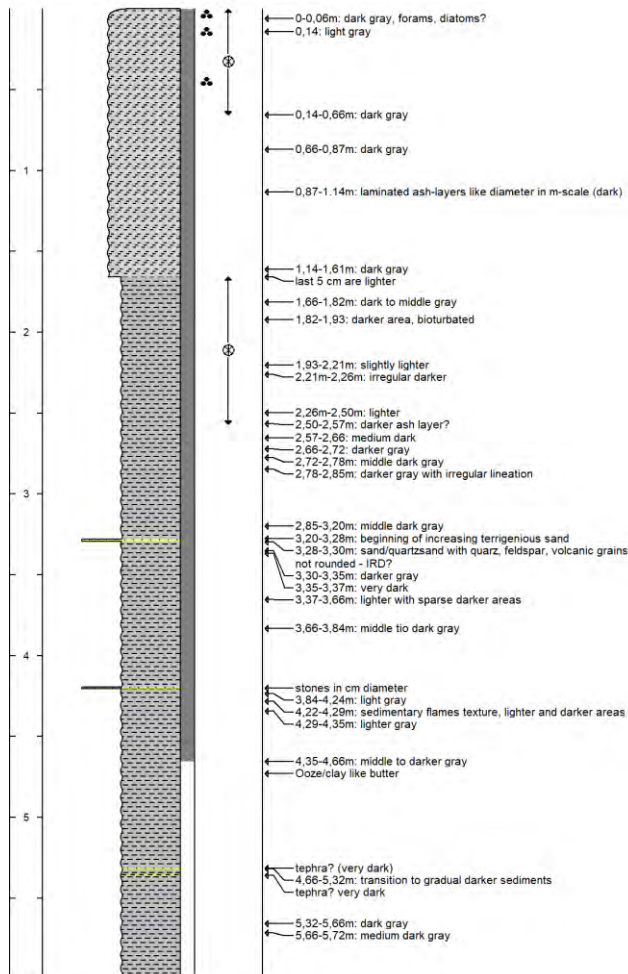
## Appendix 5.6.1 Lithology logs

**SO264-56-2**

Date Logged: Aug 2018

Logged by: C. Karas

Remarks: 47°44,752'N 168°40,398'E 3973 mbsl



## SO264 Cruise Report

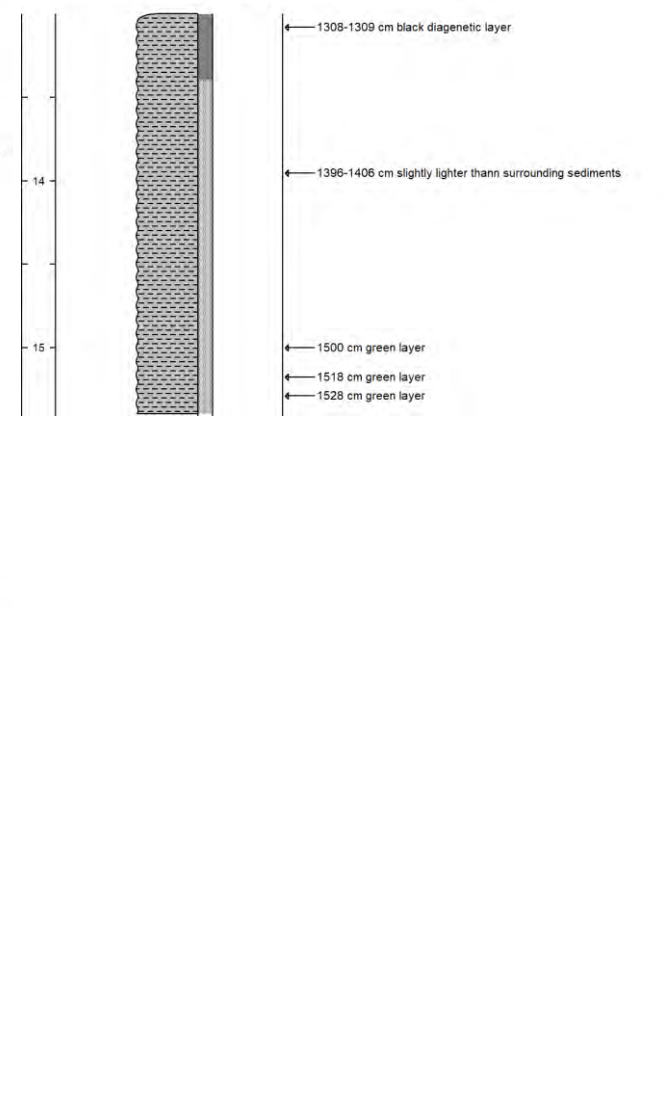
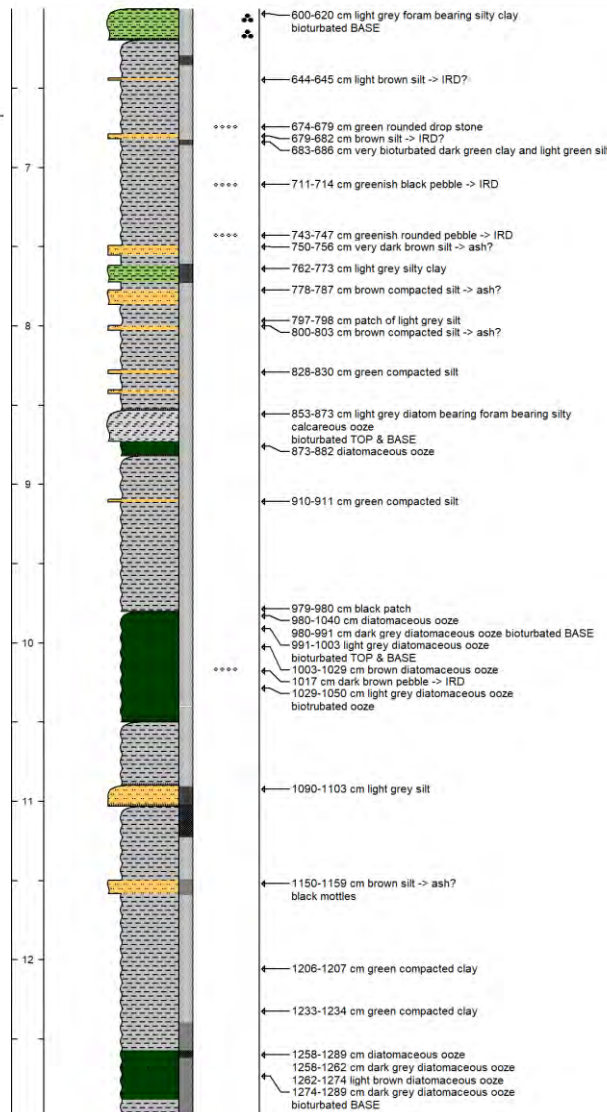
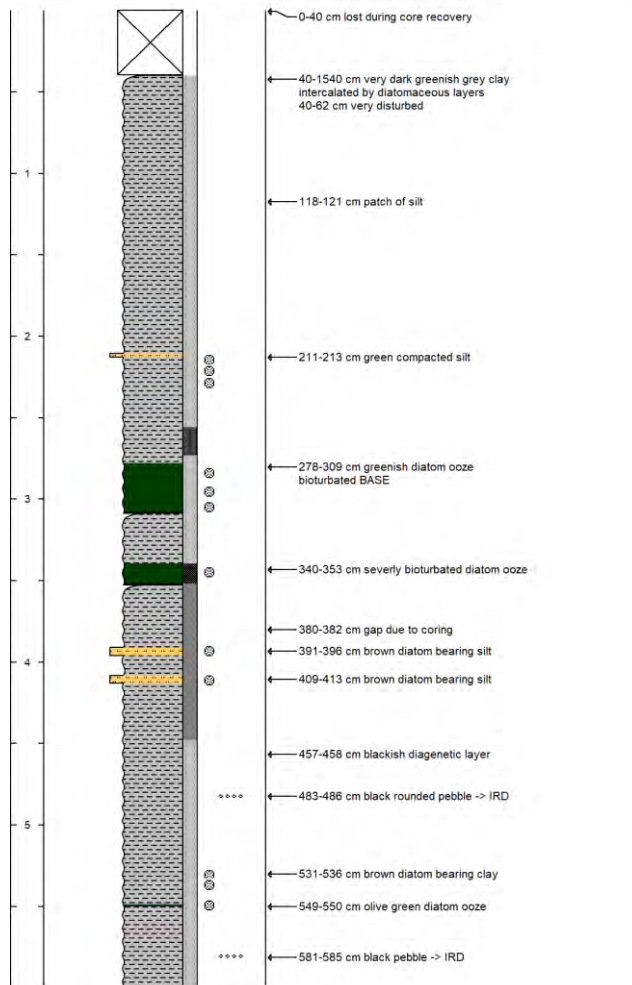
## Appendix 5.6.1 Lithology logs

**S0264-57-2**

Date Logged: Aug 8, 2018

Logged by: T. Ronge

Remarks: 48°50,814'N 168°29,003'E 2356 mbsl



## SO264 Cruise Report

## Appendix 5.6.1 Lithology logs

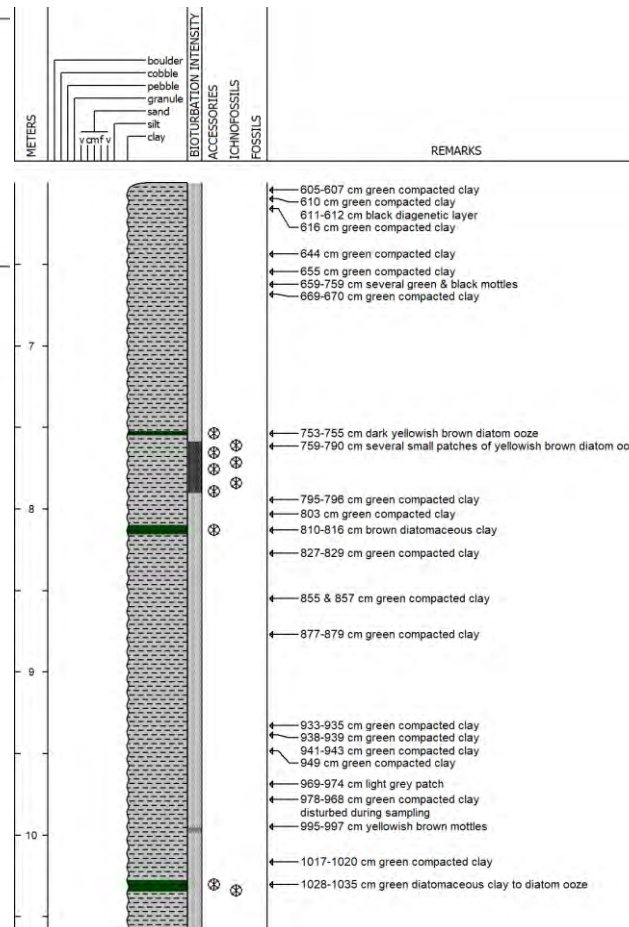
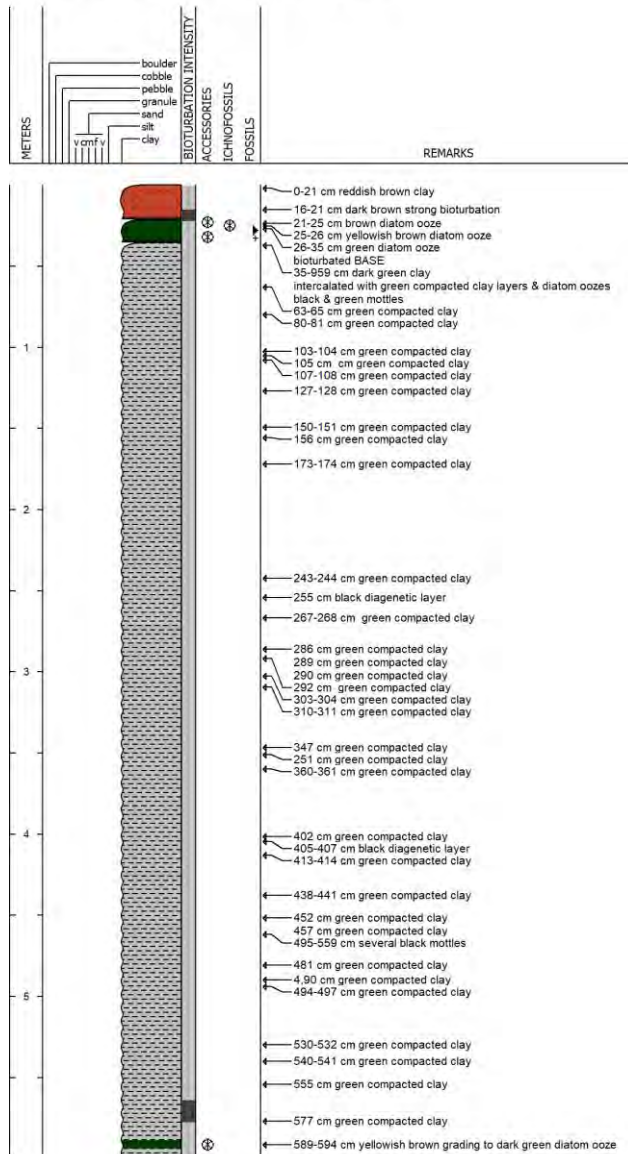
## SO264 Cruise Report

**SO264-60-12**

Date Logged: Aug 10, 2018

Logged by: T. Ronge

Remarks: 49°18,447'N 168°33,427'E 5275 mbsl





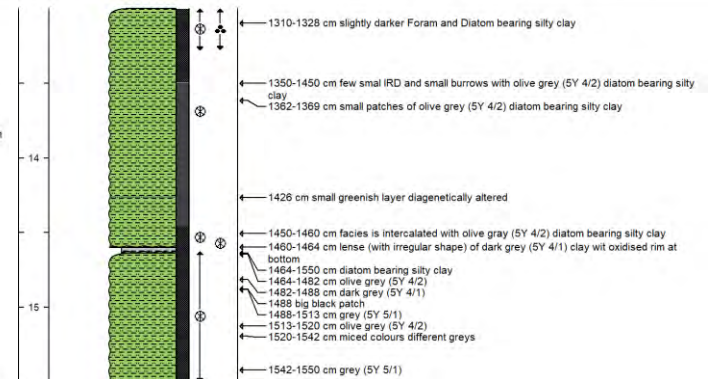
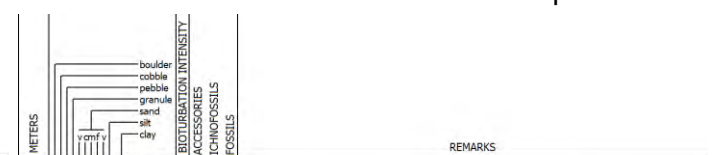
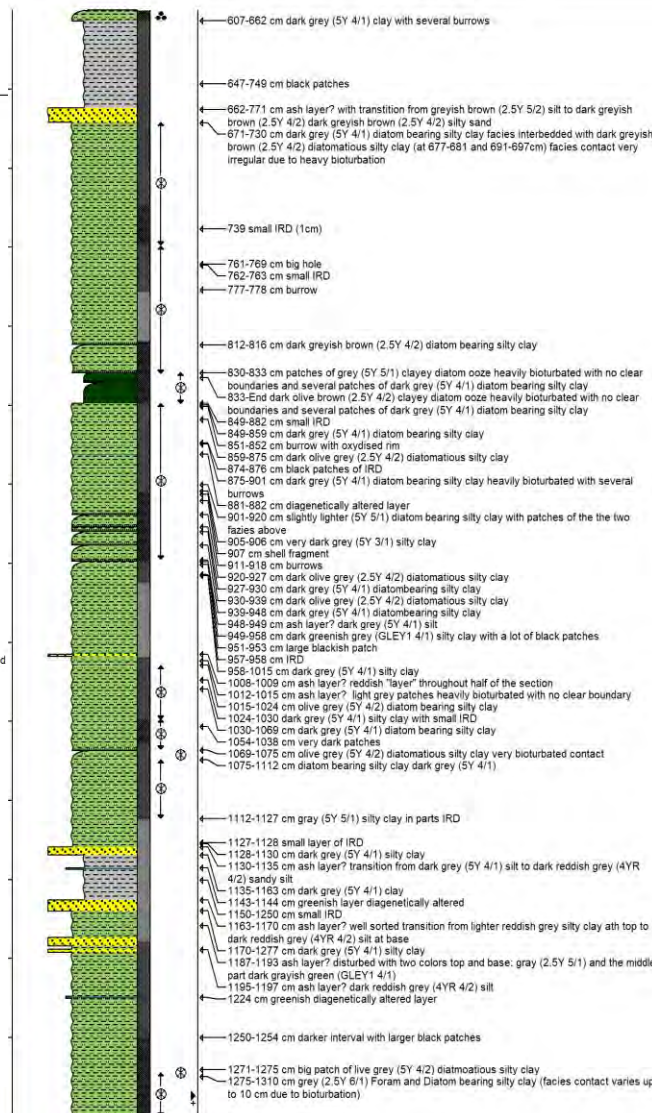
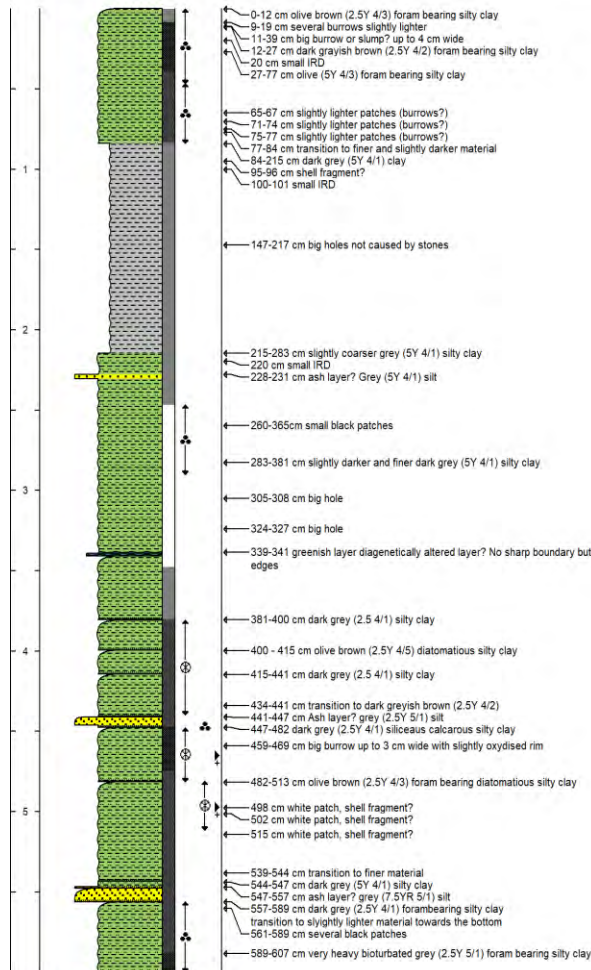
## Appendix 5.6.1 Lithology logs

SO264-62-2

Date Logged: Dezember 4, 2018

Logged by: L.Jacobi

Remarks: 49°43,840'N 168°18,918'E 2373 mbsl



## SO264 Cruise Report

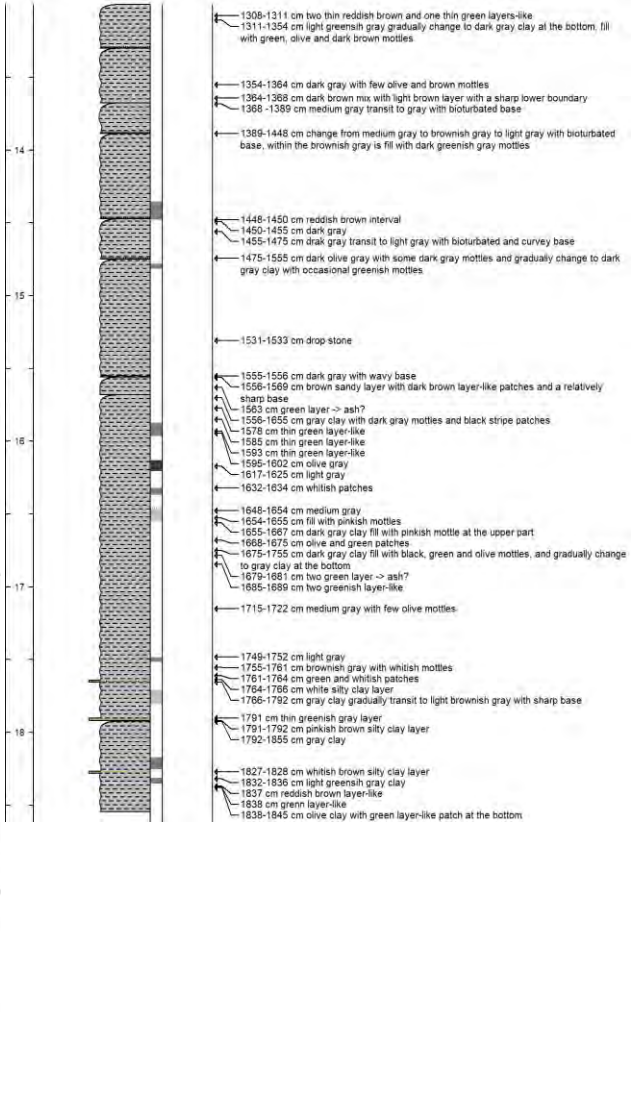
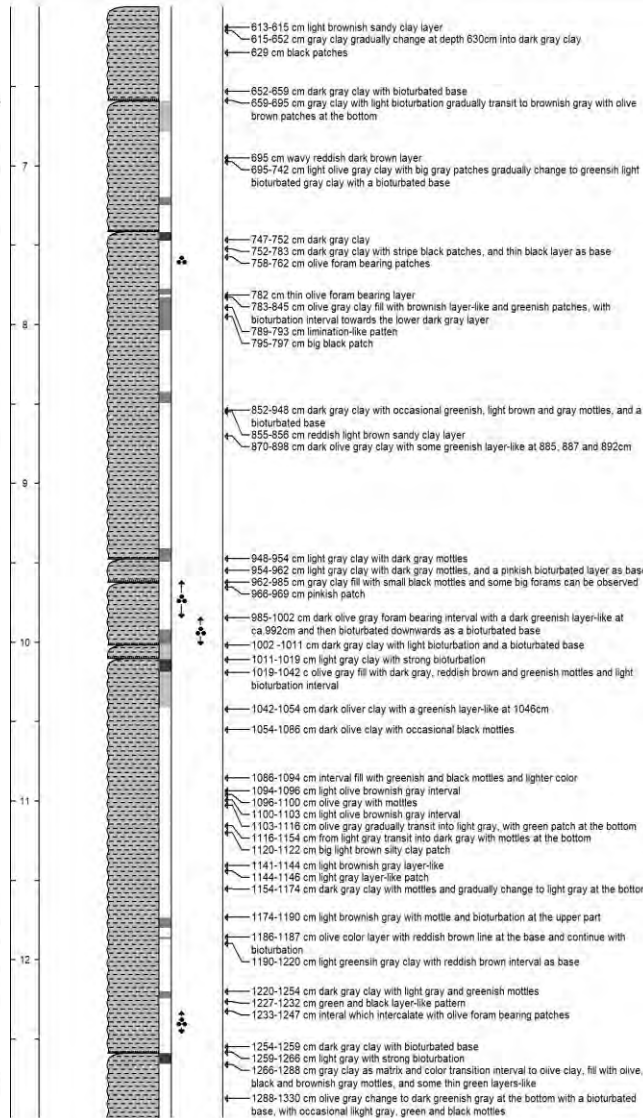
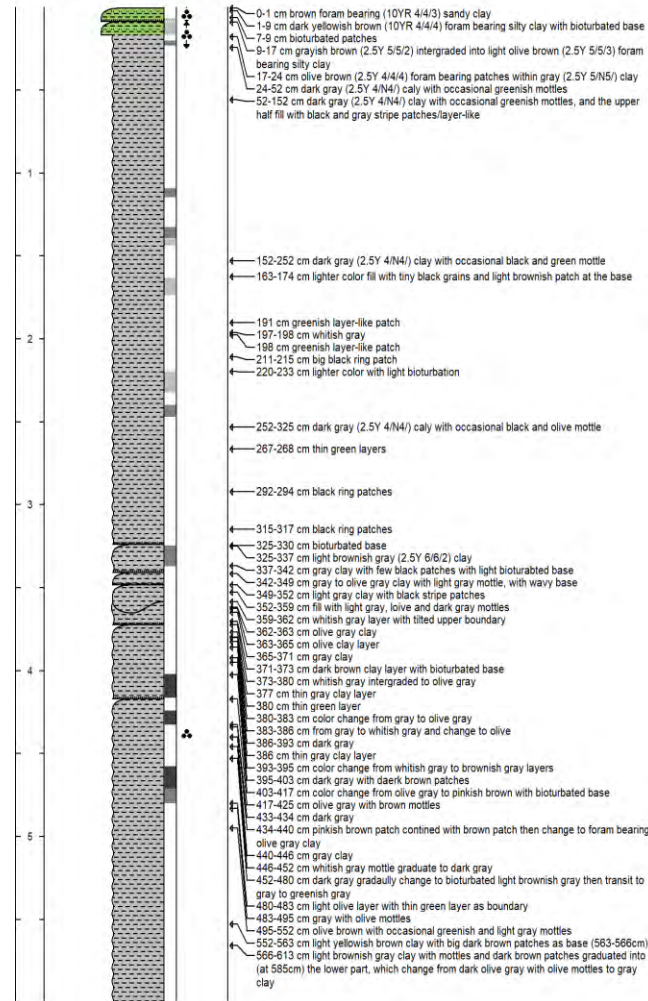
## Appendix 5.6.1 Lithology logs

SO264-64-1

Date Logged: Dezember 6, 2018

Logged by: W. Chao

Remarks: 49°59,488' N 168°13,466' E 3495 mbsf

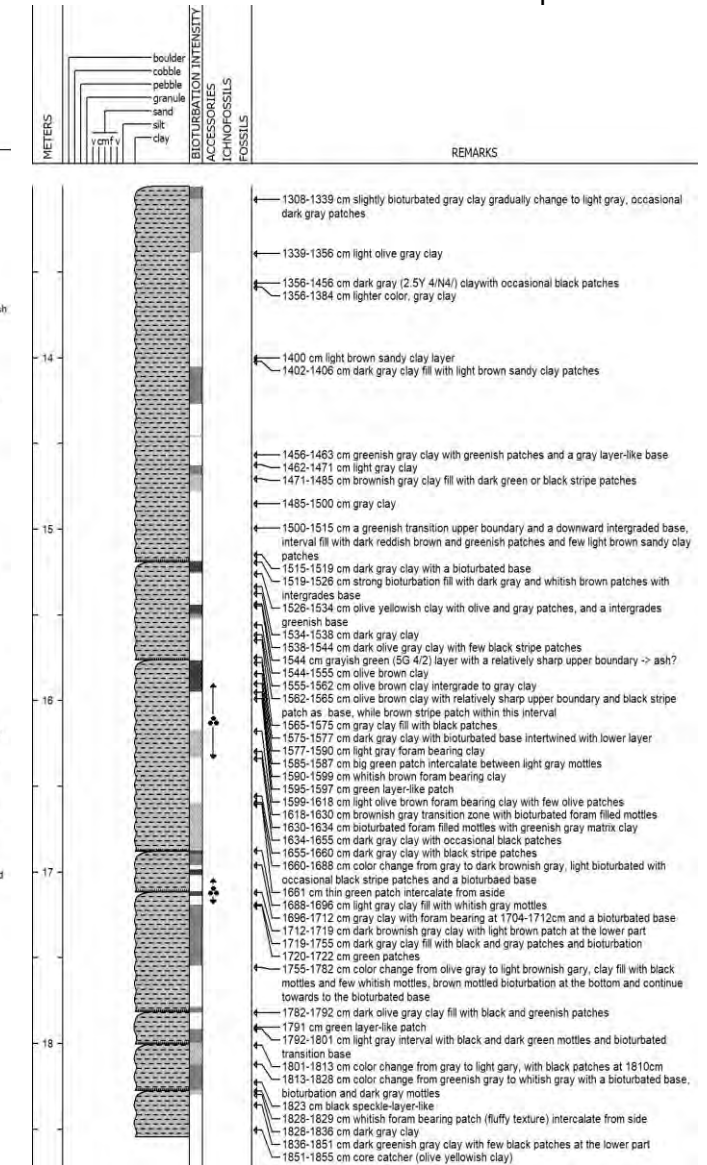
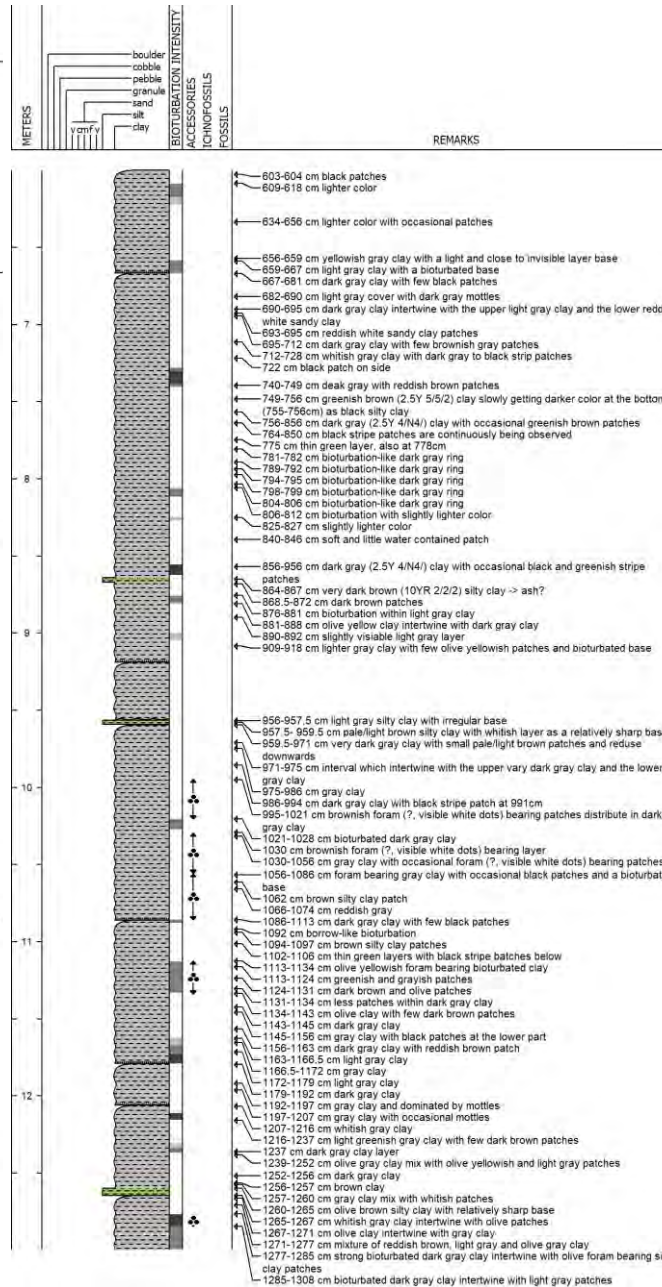
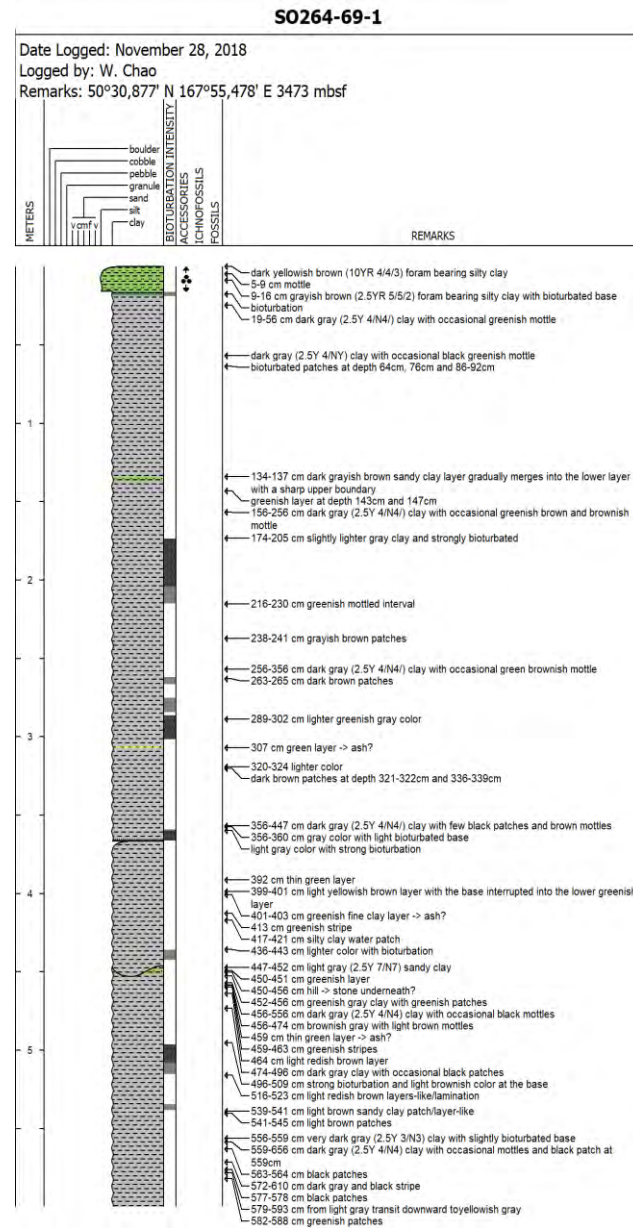


## SO264 Cruise Report



## Appendix 5.6.1 Lithology logs

## SO264 Cruise Report





## Appendix 5.6.1 Lithology logs

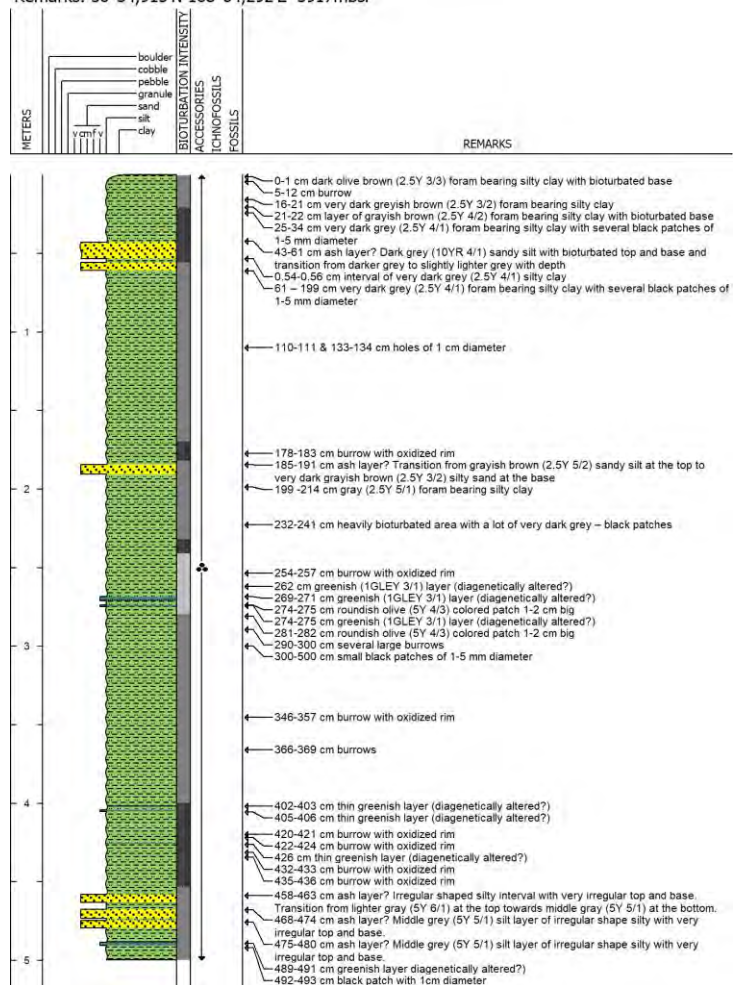
## SO264 Cruise Report

### SO264-70-1

Date Logged: November 29, 2018

Logged by: L. Jacobi

Remarks: 50°34,915'N 168°04,292'E 3917mbsl



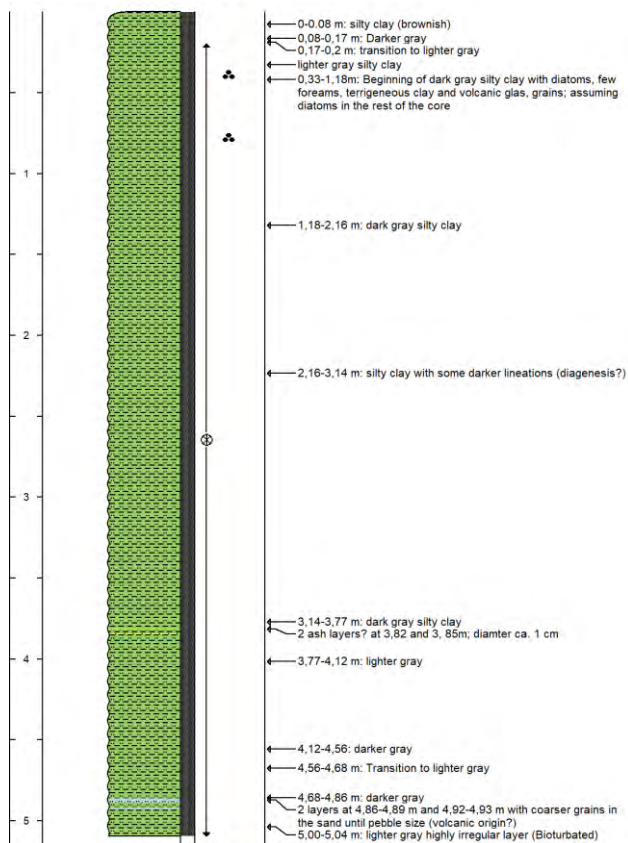
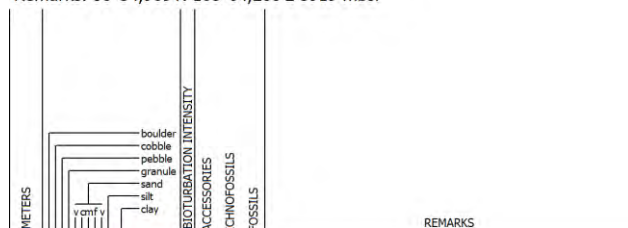
## Appendix 5.6.1 Lithology logs

**S0264-75-1(BC)**

Date Logged: Aug 2018

Logged by: C. Karas

Remarks: 50°34,909'N 168°04,288'E 3919 mbsl



SO264 Cruise Report

## Appendix 5.6.1 Lithology logs

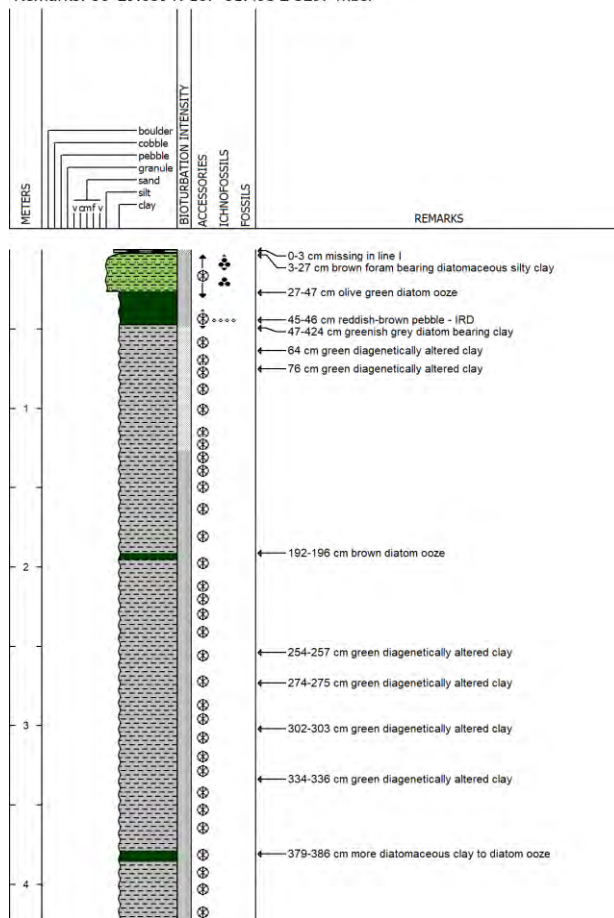
## SO264 Cruise Report

### SO264-76-1(BC) Line I

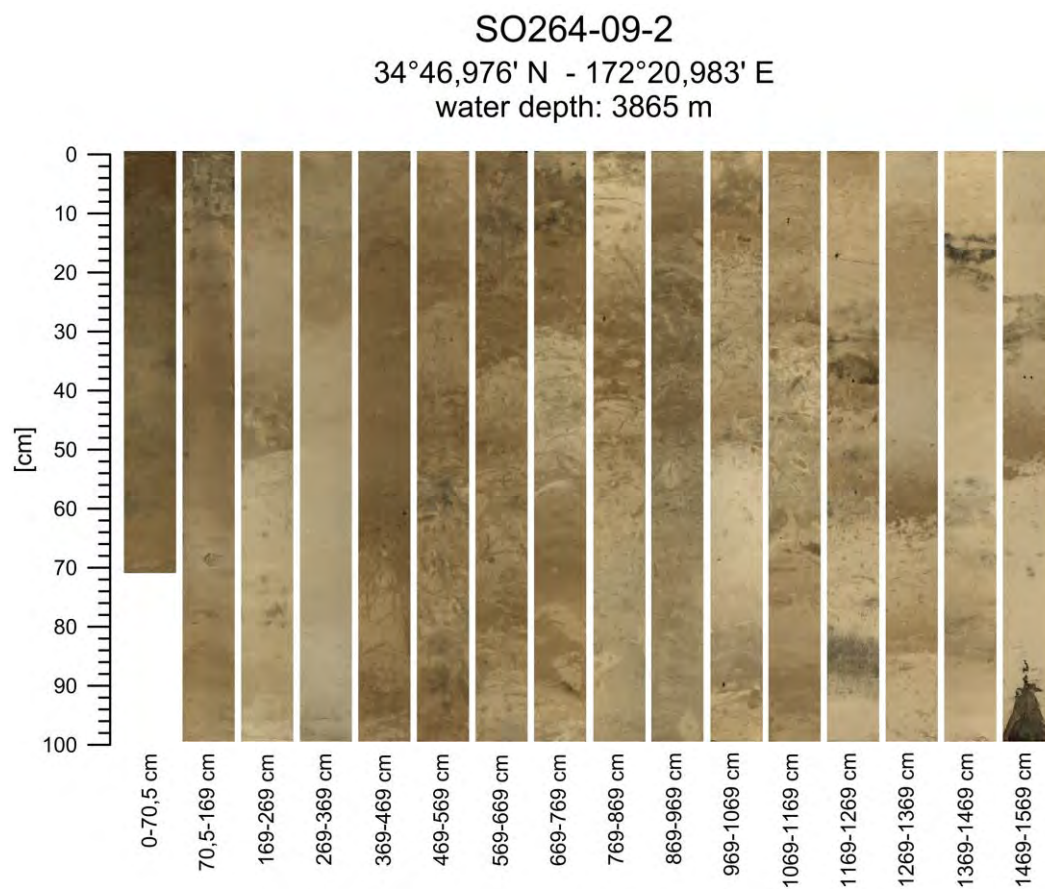
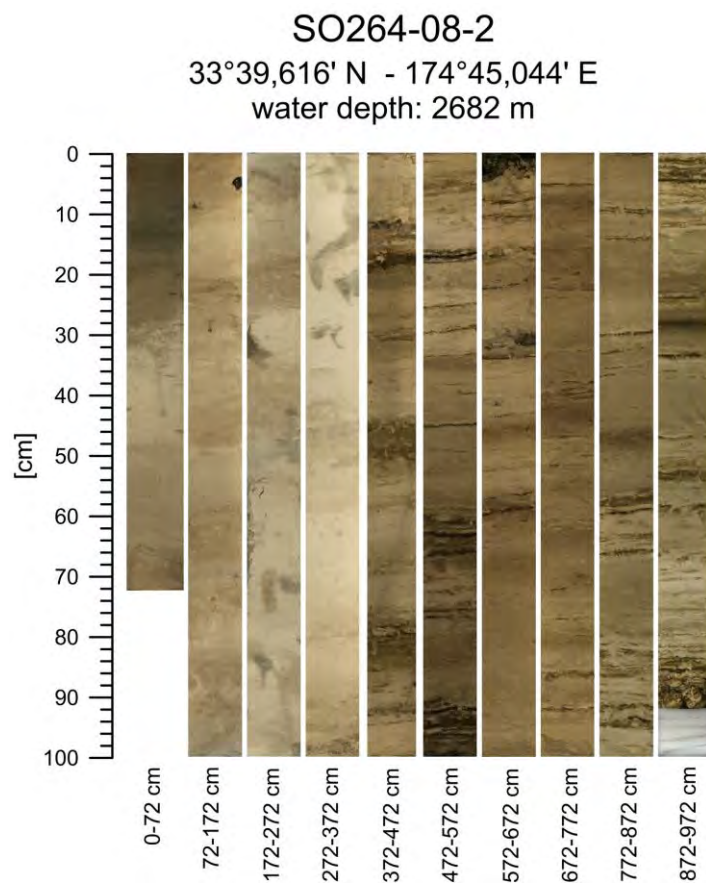
Date Logged: Aug 16, 2018

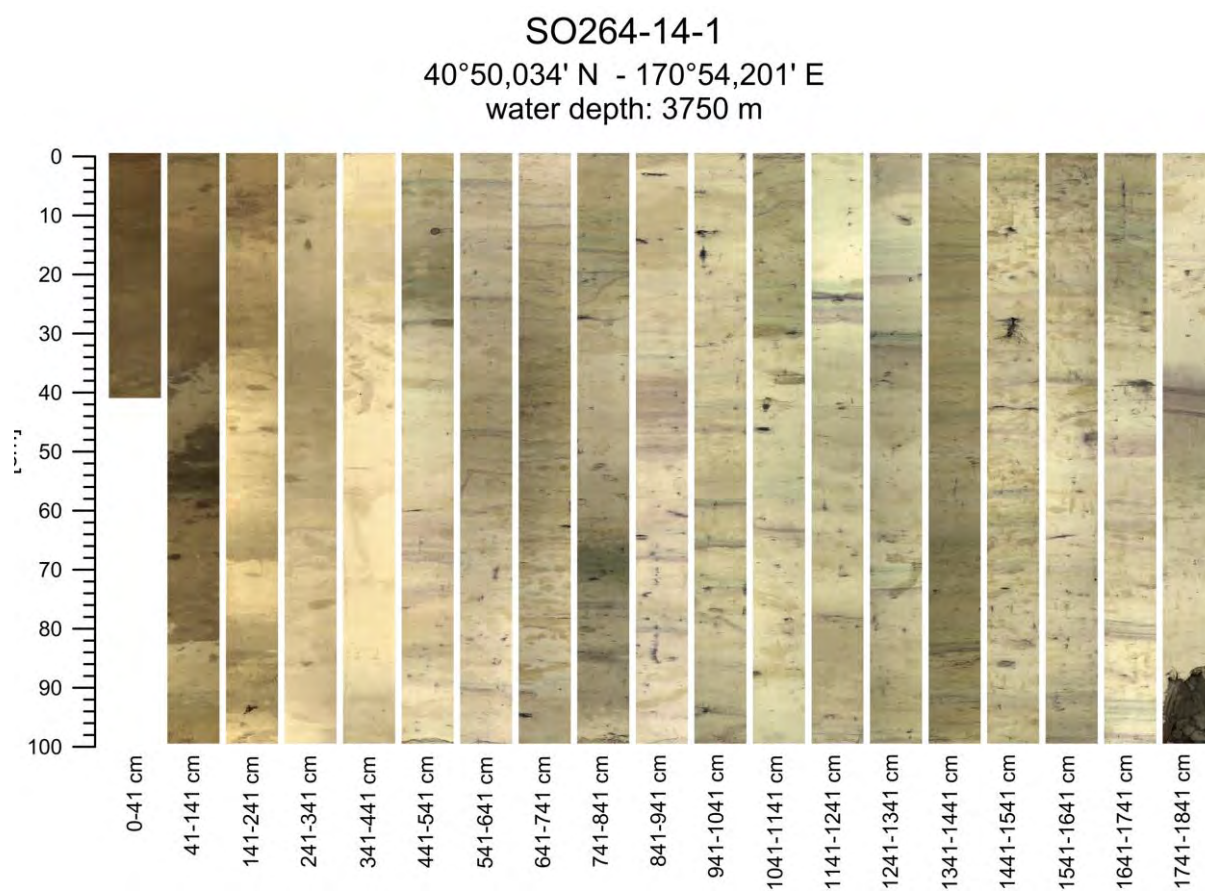
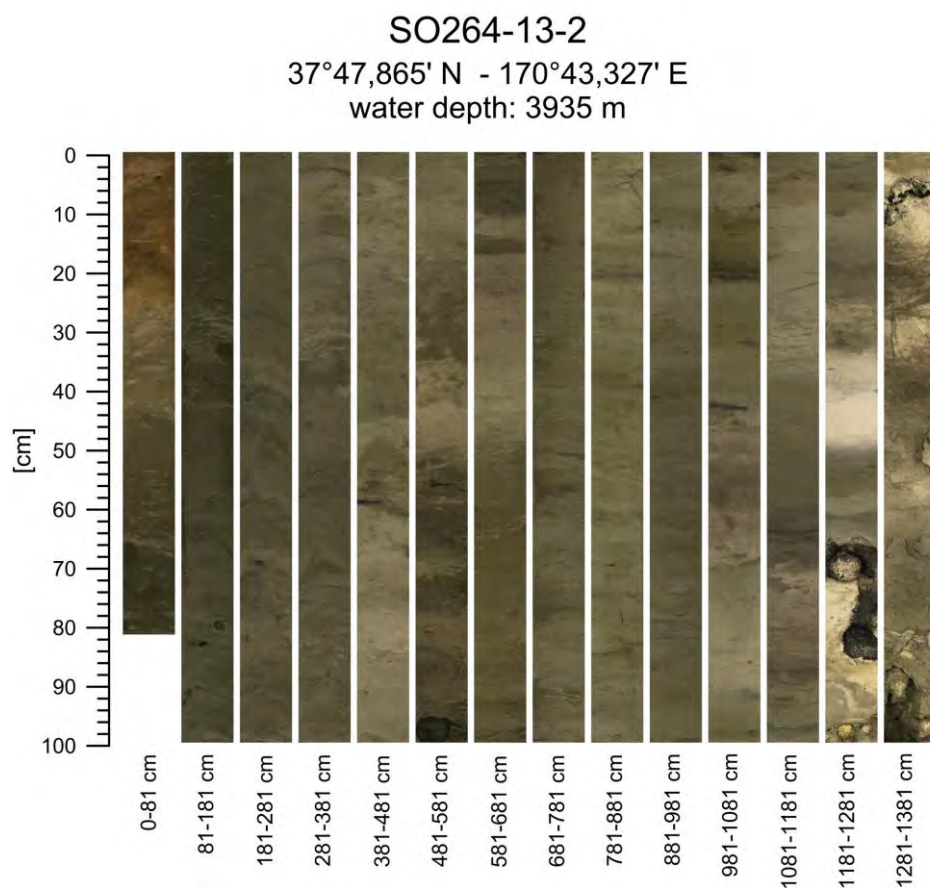
Logged by: T. Ronge

Remarks: 50°29.039'N 167°51.493'E 3297 mbsl







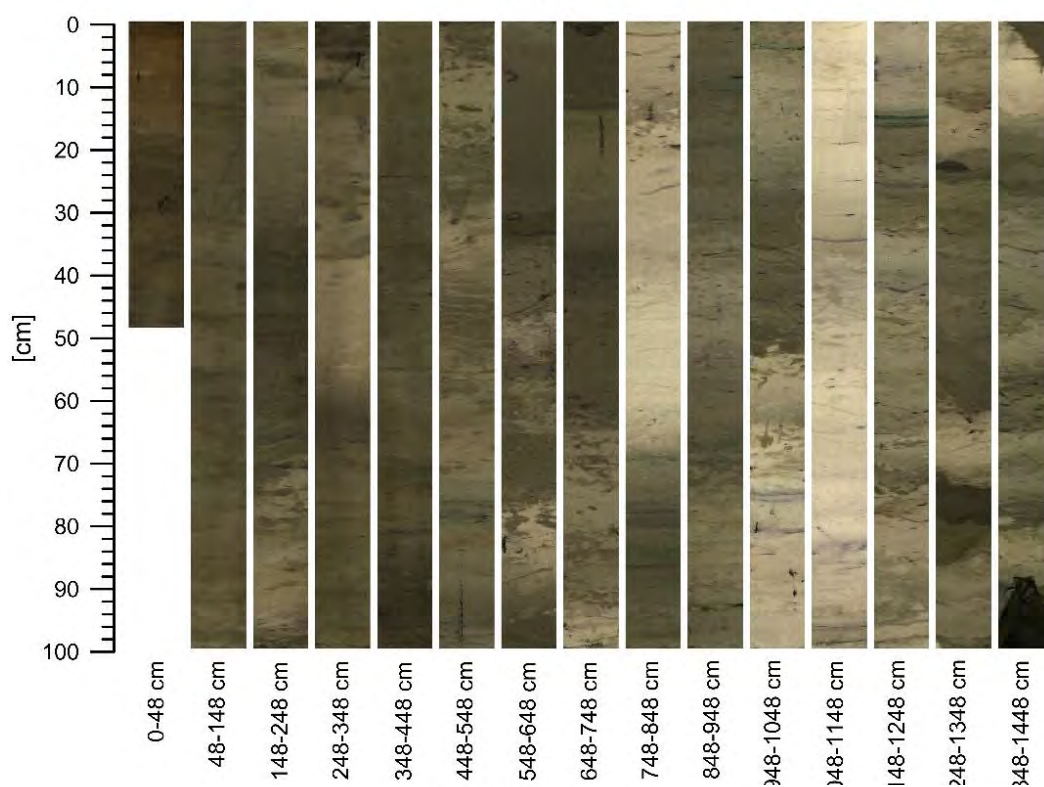




## SO264-15-2

41°36,937' N - 170°25,359' E

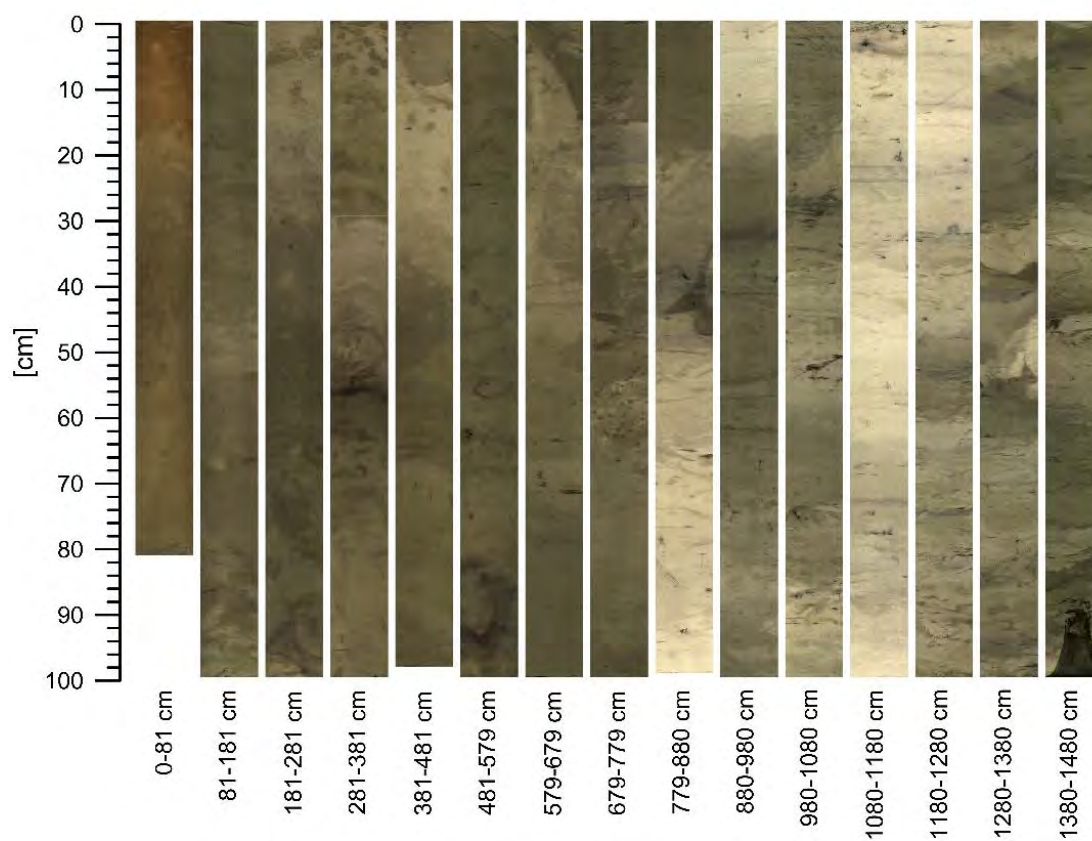
water depth: 3662 m



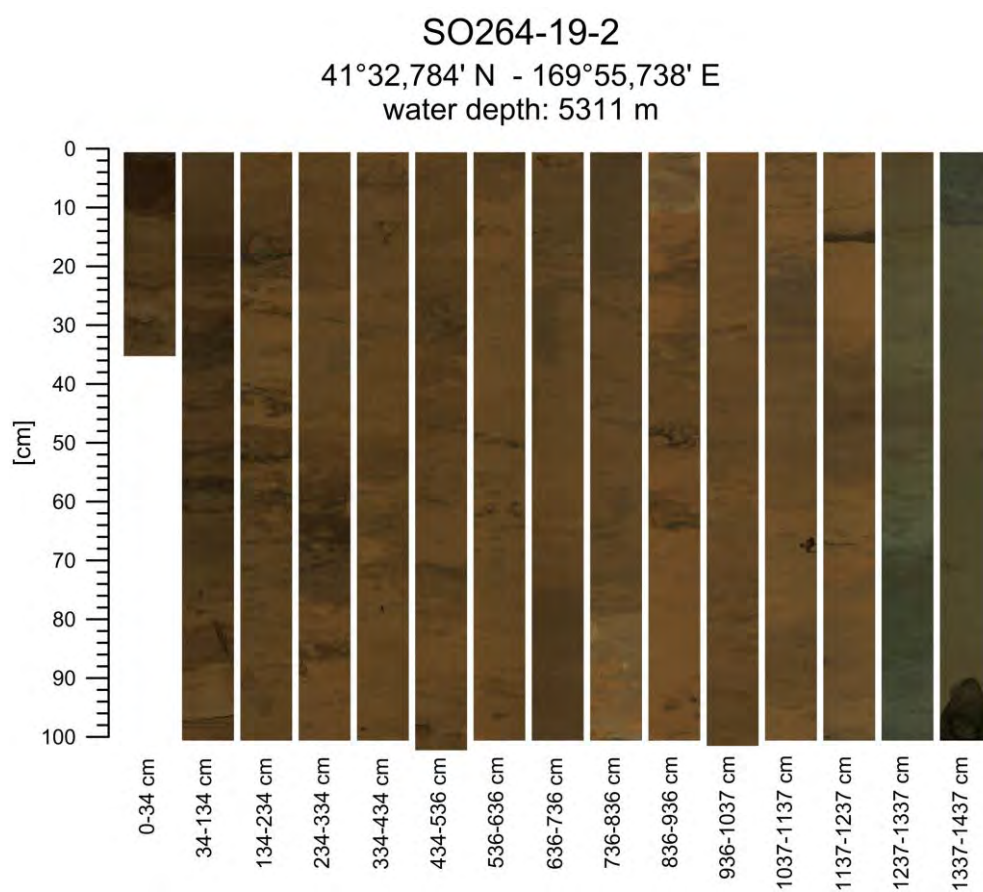
## SO264-16-2

41°34,914' N - 170°25,783' E

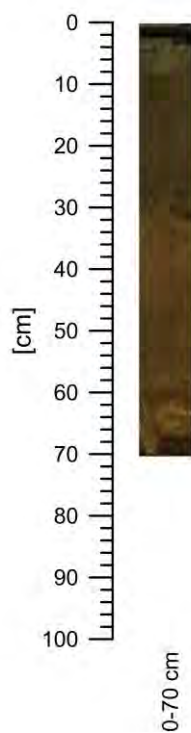
water depth: 3572 m

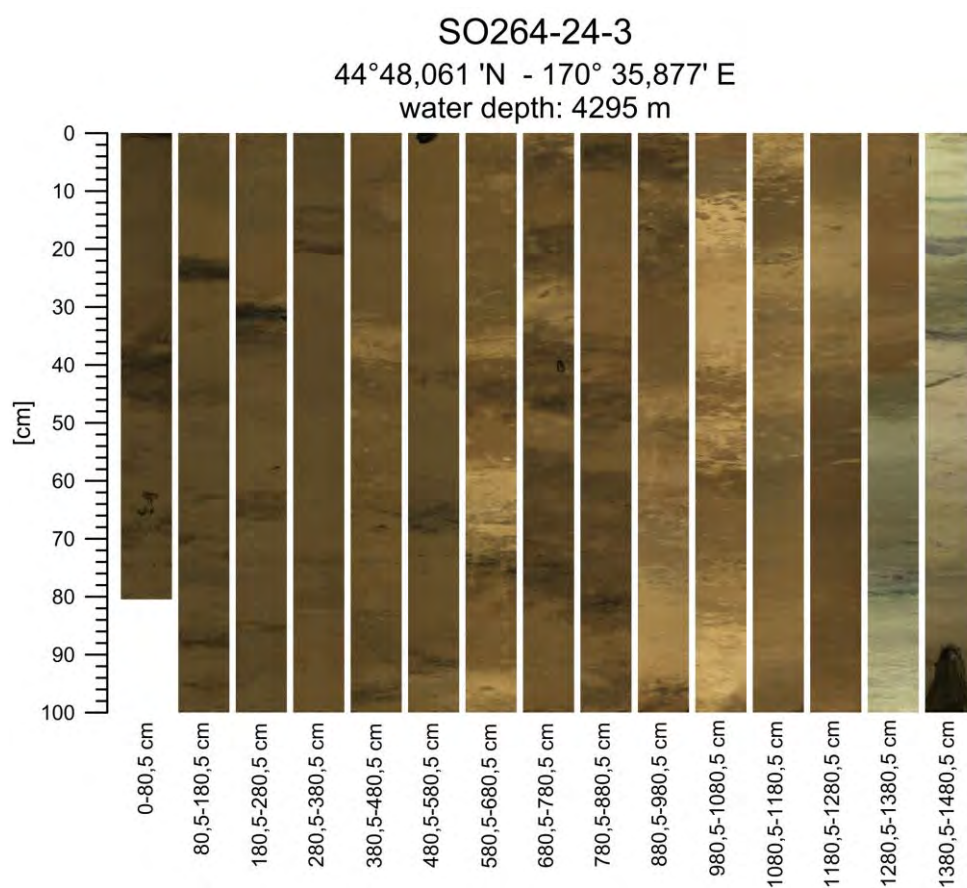
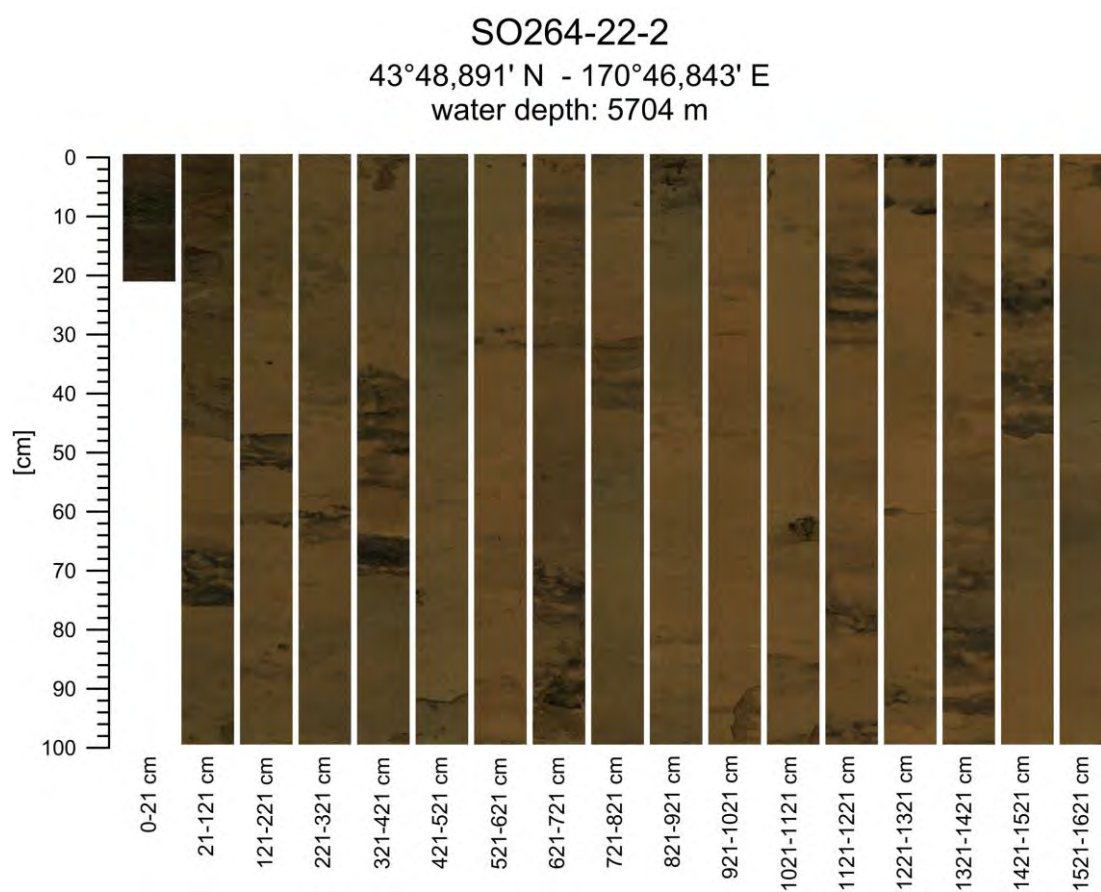






**SO264-20-1**  
41°20,030' N - 170°22,734' E  
water depth: 1308 m

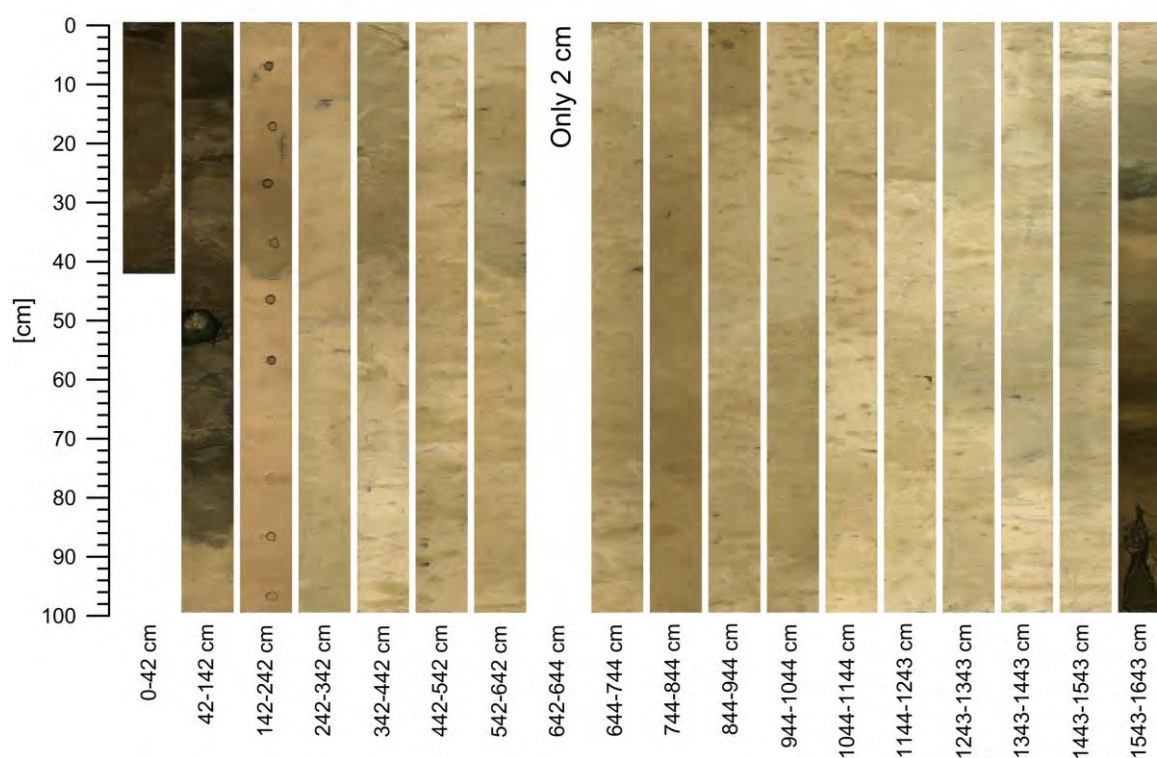




## SO264-26-2

44°46,407' N - 170°10,325' E

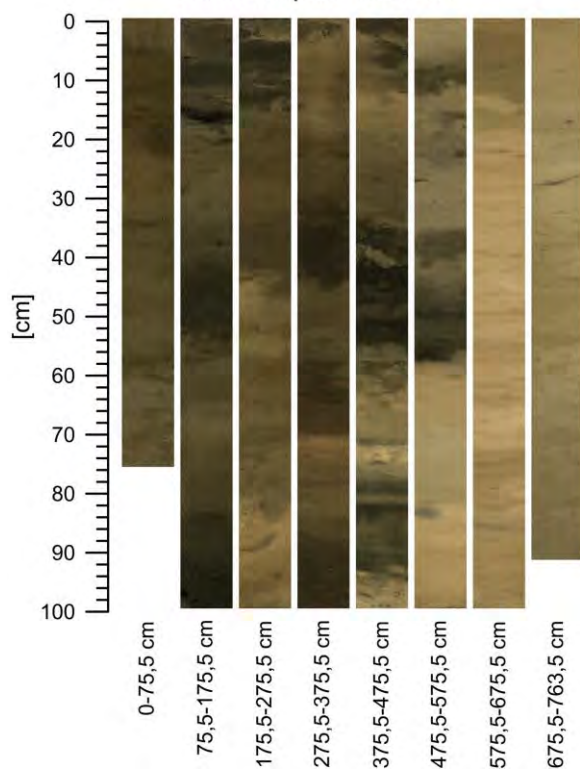
water depth: 1771 m



## SO264-28-2

44°51,546' N - 170°03,983' E

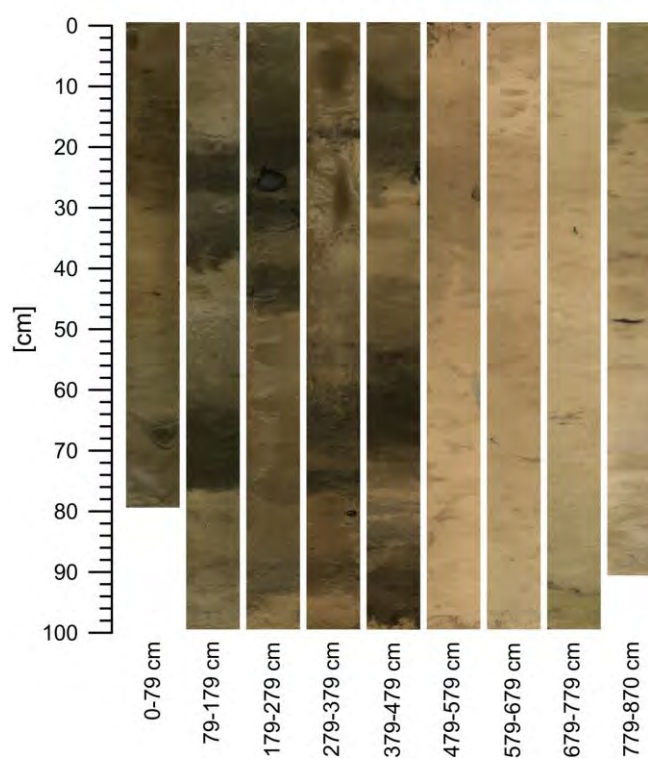
water depth: 1935 m



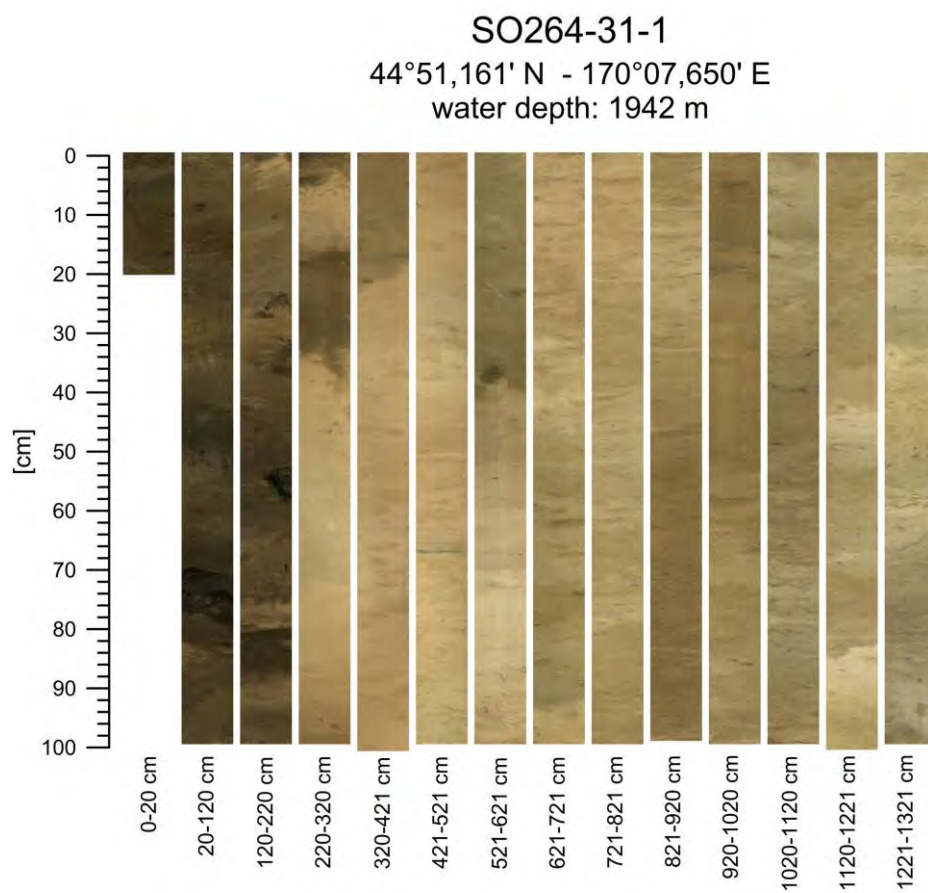
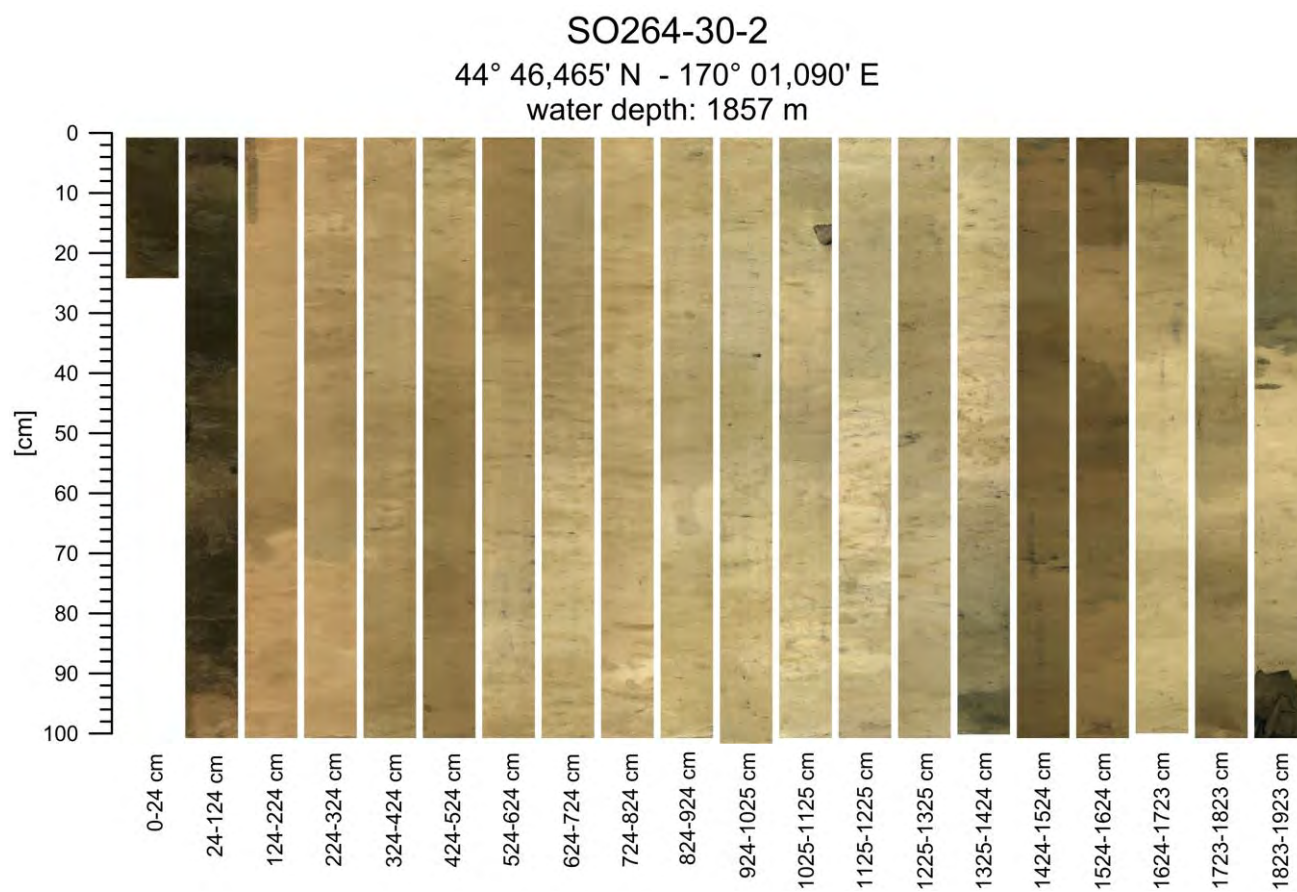
## SO264-29-1

44°52,030' N - 170°03,835' E

water depth: 1966 m



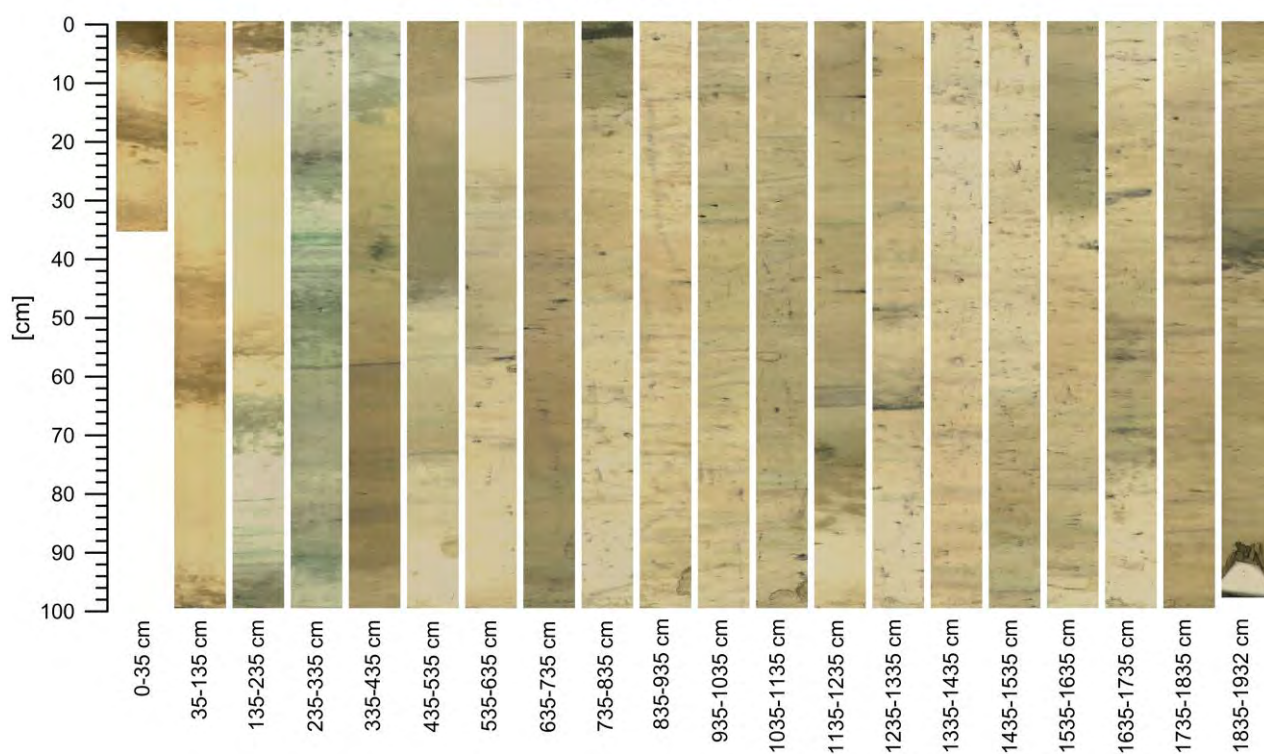




## SO264-32-2

44°59,780' N - 170°24,280' E

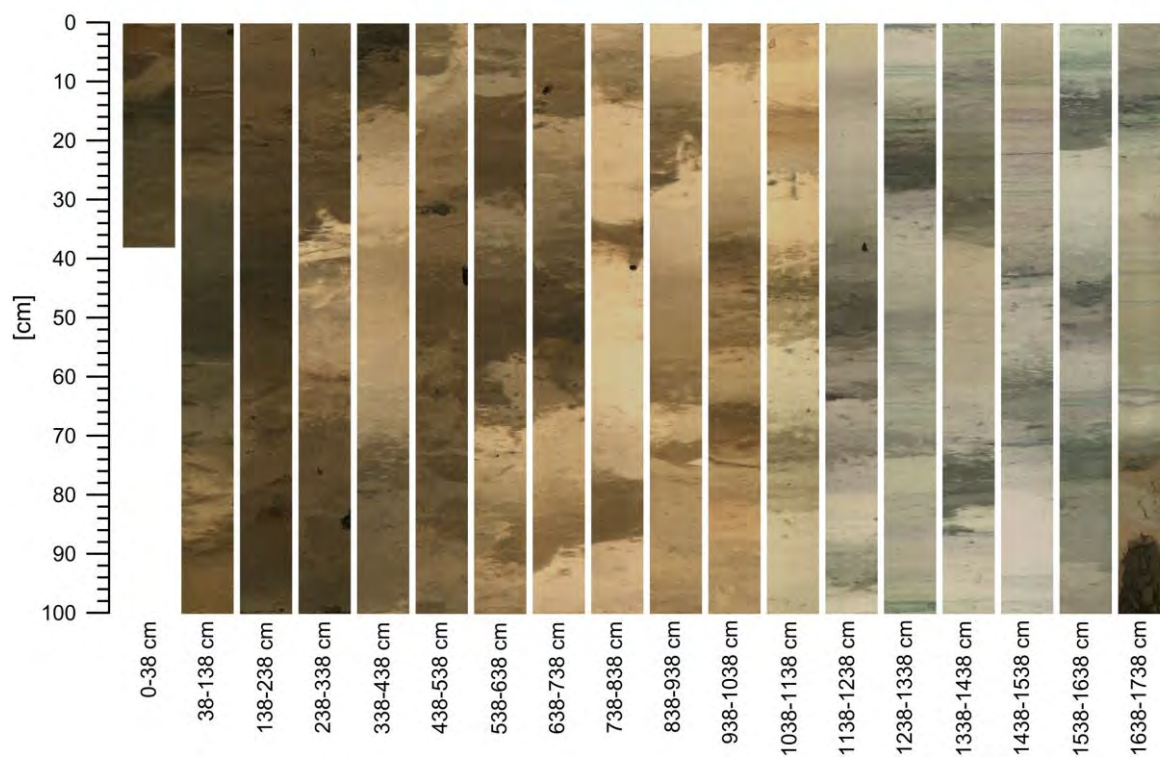
water depth: 3200 m



## SO264-33-2

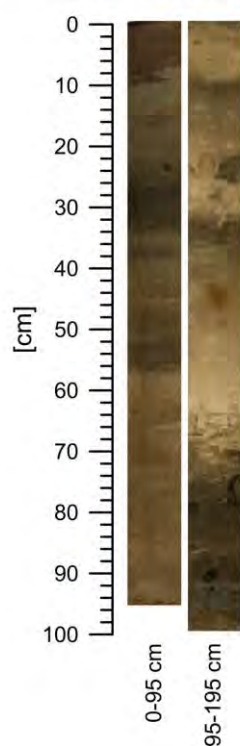
44°58,291' N - 170°21,023' E

water depth: 3141 m

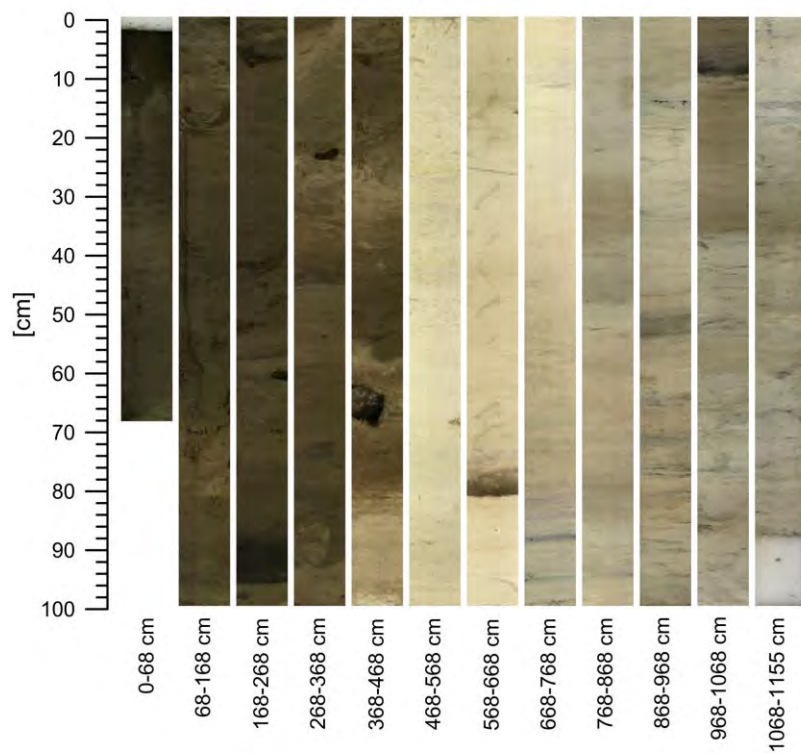




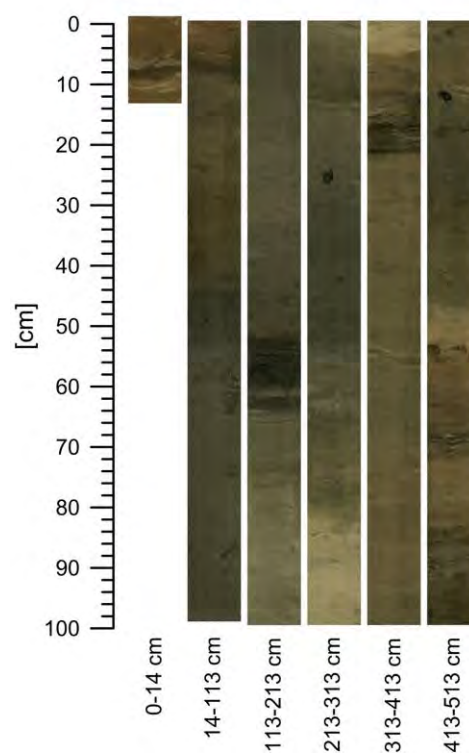
**SO264-34-2**  
45°01,852' N - 170°13,533' E  
water depth: 2622 m



**SO264-42-2**  
46°10,141' N - 169°10,080' E  
water depth: 3021 m

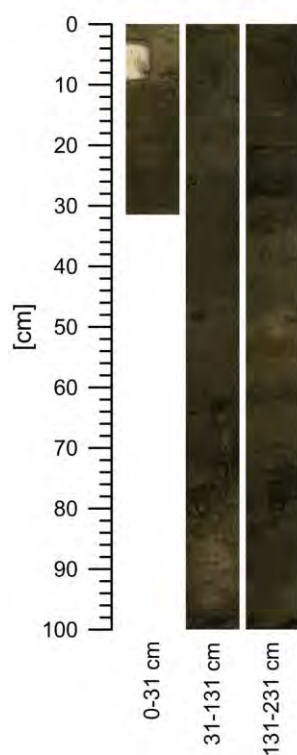


**SO264-43-2**  
46°06,576' N - 169°07,193' E  
water depth: 3239 m

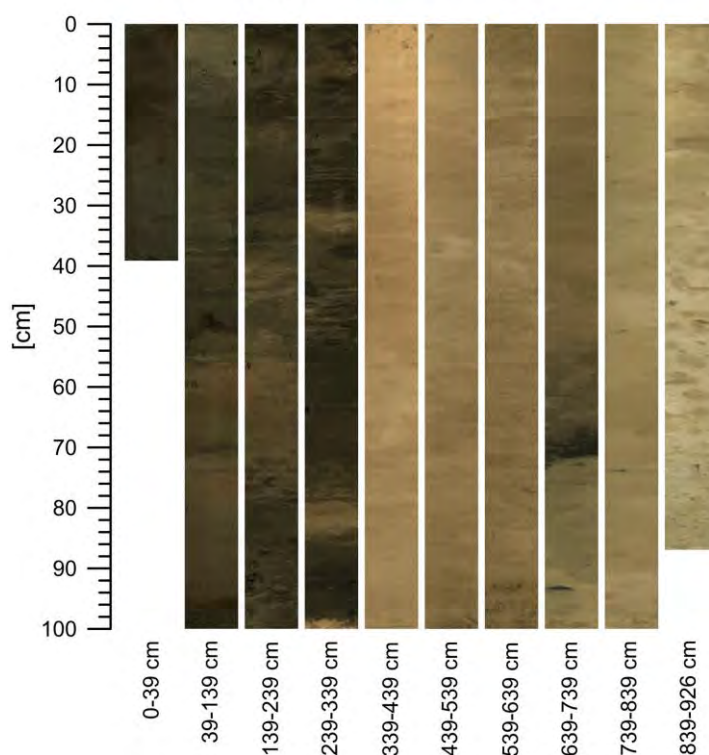




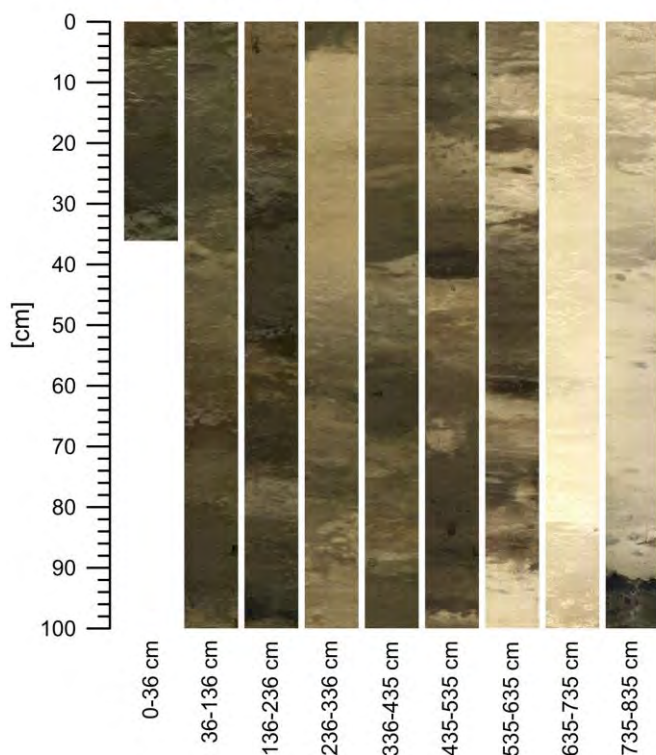
**SO264-44-2**  
46°15,298' N - 169°20,062' E  
water depth: 1893 m



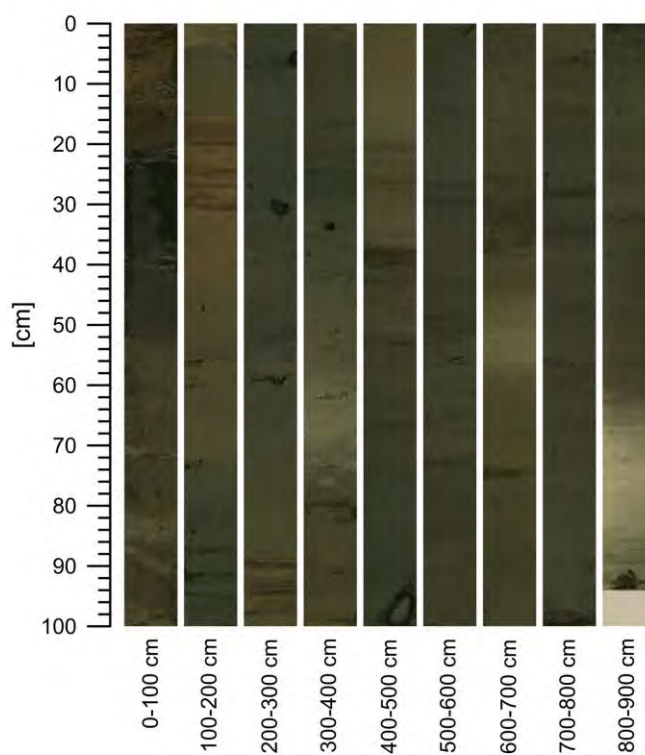
**SO264-44-3**  
46°15,307' N - 169°20,064' E  
water depth: 1894 m



**SO264-45-2**  
46°33,792' N - 169°36,072' E  
water depth: 2425 m

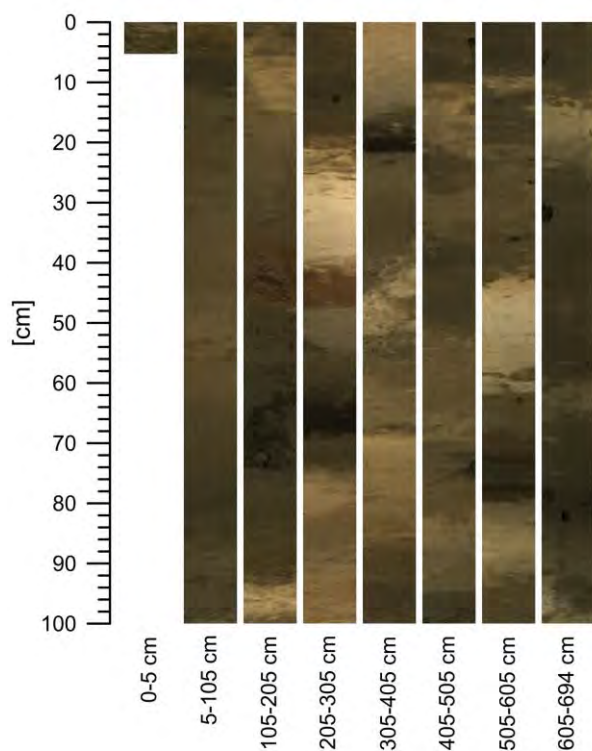


**SO264-46-5**  
46°48,941' N - 169°24,661' E  
water depth: 3992 m



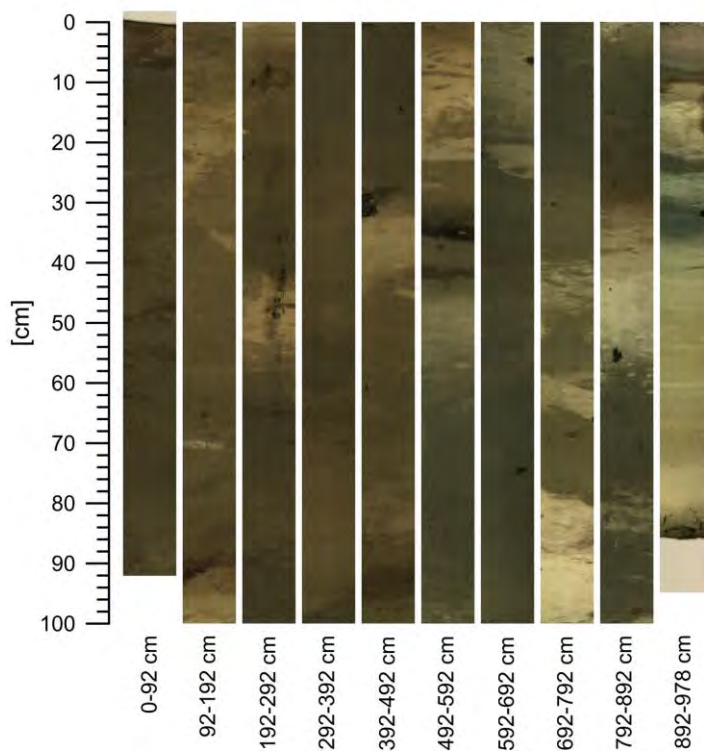
## SO264-47-2

47°04,394' N - 169°21,667' E  
water depth: 2647 m



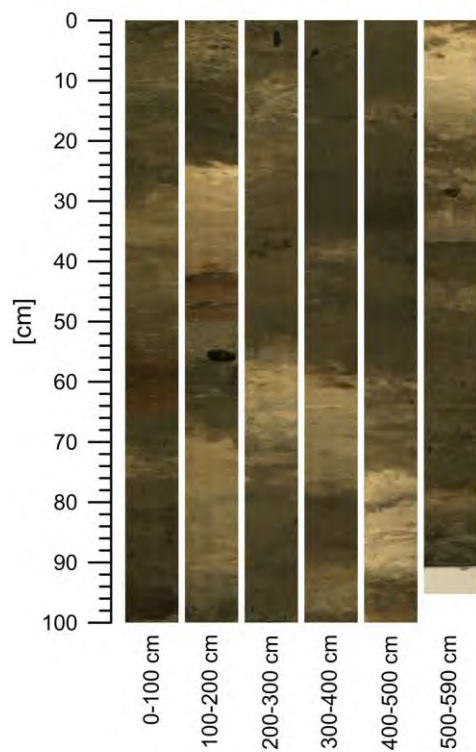
## SO264-48-2

47°58,505' N - 169°03,878' E  
water depth: 2872 m



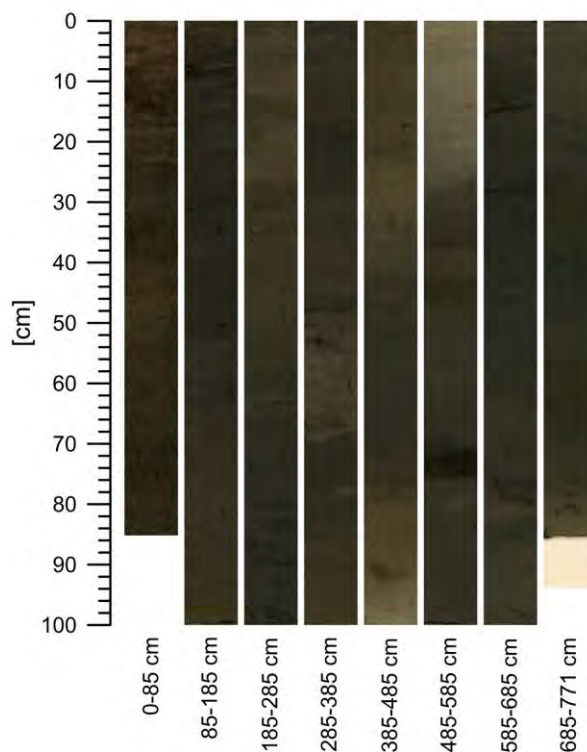
## SO264-49-2

47°40,869' N - 169°01,419' E  
water depth: 2400 m



## SO264-51-2

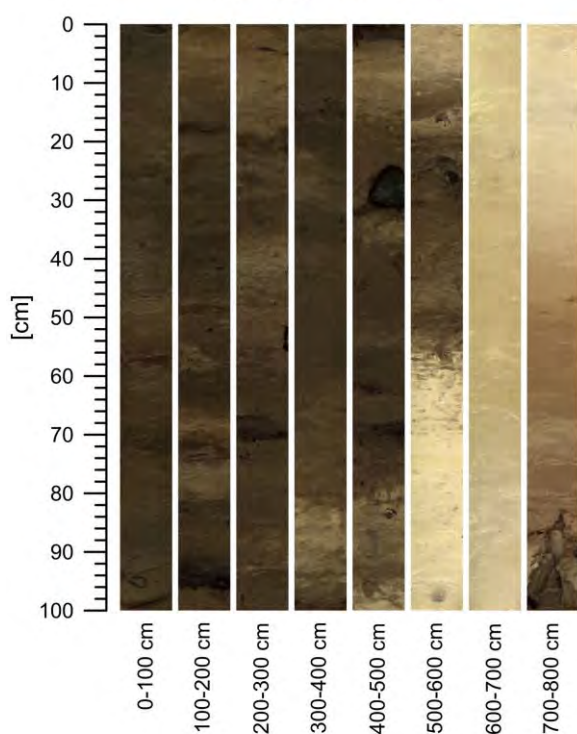
47°07,271' N - 169°09,869' E  
water depth: 2752 m





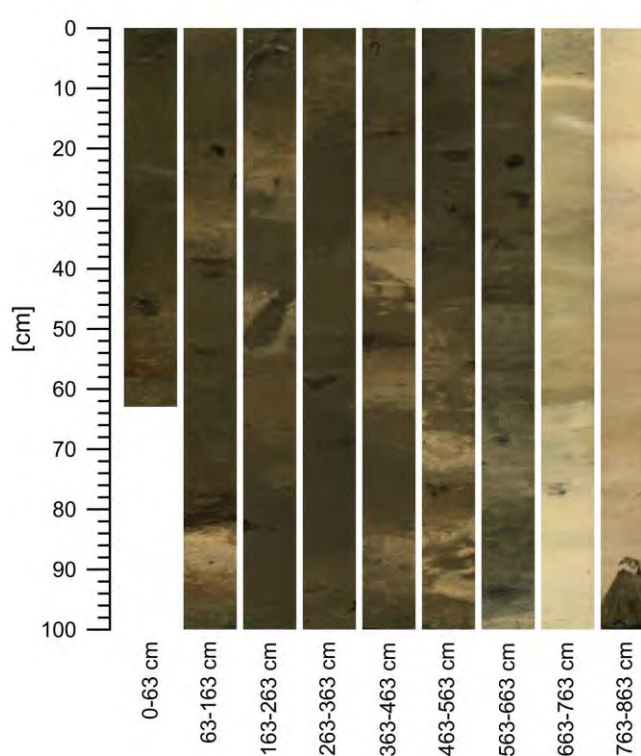
## SO264-52-2

47°07,271' N - 169°09,869' E  
water depth: 2752 m



## SO264-53-2

47°38,934' N - 169°20,417' E  
water depth: 2325 m



## SO264-54-2

47°37,318' N - 169°14,852' E  
water depth: 2139 m

