

IODP Expedition 389 VCD

Site: M0104A

Hole M0104A

Region: Hilo
Water Depth: 347.0 m

Depth (mbsf)	Core recovery	Curated sections	XCT scan image	Line scan image	Facies	IODP samples	Grain size	Fossils	Taphonomy	Color	Visual core description
0.0											
1R-1						◆		Echinoderm;Bivalve;Porites-branching;Coralline algae;Gastropod		5Y 8/4;10YR 8/2;10YR 5/4	Consolidated bidetrital sediment. Grainstone to rudstone, bioclastic, poorly sorted. Lots of reworked material. Some possible hardgrounds. Lamellibranch (oysters), gastropods, altered corals, and rhodoliths amongst the bidetrital material. The top part of the section is yellowish brown..
1R-2						◀		Coralline algae;Porites-laminar;Porites-branching;Porites-undetermined;Bivalve	encrustation - multilayered;bioerosion		Coralgal microbialite Bst Laminar corals, heavily bored with CCA and microbialites. Some pockets of grainstone facies..
2R-1						◆		Coralline algae;Porites-undetermined;Porites-branching;Bivalve;Gastropod;Porites-laminar	encrustation - multilayered	10YR 8/2;5Y 8/4;10YR 7/4	Coralgal microbialite bst. with Porites branches. Corals are heavily bored and appear altered. They are encrusted by thin CCA crusts. Microbialite is structureless dendritic. Major minerals: calcite;aragonite
2.0						+		Coralline algae;Porites-branching;Porites-laminar;Cyphastrea-undetermined;Gastropod;Serp			
2.5											
3.0											

VCD legend	Core recovery	Facies	IODP Samples
	<ul style="list-style-type: none"> Core recovered No recovery Wash bore High disturbance 	<ul style="list-style-type: none"> FRW-CorAlgBound FRW-CorAlgMicrobBound FRW-MicrobAlgBound FRW-MicrobBound FRW-AlgBound RDST/FLST-Rhodoliths DET-Consolidated DET-Unconsolidated 	<ul style="list-style-type: none"> ◆ Dating ◀ GEOCHEM ○ IWRH + MAD/PW ◆ PMAG

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3.0									encrustation - multilayered	10YR 8/2;5Y 8/4;10YR 7/4	
3.5						◆		Coralline algae;Porites-branching; Porites-encrusting;Porites-laminar;Cyphastrea-encrusting;Gastropod;Bivalve;Echinoderm			Coralgal microbialite boundstone. Mostly Porites branching and laminar, with thin CCA embedded in massive stuctureless to dendritic microbialite. Some pockets of biotrital sediments From 65 to 105 cm : cavity filled partially by dendritic microbialite. Major minerals: calcite;aragonite
4.0	2R-2										
4.5						+					
5.0						◆					
5.5						□		Coralline algae;Porites-branching; Cyphastrea-encrusting;Porites-platy;Porites-columnar;Porites-submassive;Porites/Montipora-un determined;Vermetidae ;Homotrema;BRYO			Coralgal microbialite boundstone. Mostly Porites columnar, branching and platy, with CCA crusts with vermetids and Homotrema. Massive to dendritic laminated microbialite. Some pockets of biotrital sediments. . Major minerals: calcite;aragonite
6.0									encrustation - multilayered;bioclast	10YR 8/2;10YR 7/4;N9	

VCD legend	Core recovery	Facies	IODP Samples
	<ul style="list-style-type: none"> █ Core recovered □ No recovery ▨ Wash bore ▢ High disturbance 	<ul style="list-style-type: none"> █ FRW-CorAlgBound █ FRW-CorAlgMicrobBound █ FRW-MicrobAlgBound █ FRW-MicrobBound █ RDST/FLST-Rhodoliths █ DET-Consolidated █ DET-Unconsolidated █ FRW-AlgBound █ VOL-Clast █ VOL-Basalt █ FALL 	<ul style="list-style-type: none"> ◀ Dating □ GEOCHEM ○ IWRH + ◆ PMAG

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VCD legend

Core recovery

- Core recovered
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Facies

- The legend identifies six geological units and their characteristics:

 - FRW-CorAlgBound**: Blue square, labeled "FRW-AlgBound".
 - FRW-CorAlgMicrobBound**: Green square, labeled "RDST/FLST-Rhodoliths".
 - FRW-MicrobAlgBound**: Red square, labeled "DET-Consolidated".
 - FRW-MicrobBound**: Yellow square, labeled "DET-Unconsolidated".

IODP Samples

-  Dating  MAD/PW
 GEOCHEM  PMAG
 IWRH

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VCD legend

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- Core recovered
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 - Wash bore
 - High disturbance

Facies

- The legend identifies six geological units and their boundaries:

 - FRW-CorAlgBound**
 - FRW-AlgBound**
 - FRW-CorAlgMicrobBound**
 - RDST/FLST-Rhodoliths**
 - FRW-MicrobAlgBound**
 - DET-Consolidated**
 - FRW-MicrobBound**
 - DET-Unconsolidated**

IODP Samples

- Dating MAD/PW
GEOCHEM PMAG
IWRH

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12.0								Coralline algae;Porites-branched; Cyphastrea-encrusting; Vermetidae;Porites-undetermined;Porites-massive;Homotrema			Coralgal microbialite boundstone. Porites massive and branching, with CCA crusts with vermetids and Homotrema. Massive and dendritic, laminated microbialite. Major minerals: calcite;aragonite
12.5						+					
13.0		5R-2				◊					
13.5						●		Coralline algae;Porites-branched; Cyphastrea-encrusting; Vermetidae;Porites-columnar			Coralgal microbialite boundstone. Porites columnar and branching, with CCA crusts with vermetids. Massive and dendritic, laminated microbialite. Dark coloration at margins. Major minerals: calcite;aragonite
14.0						◊					
14.5		6R-1				◆					
15.0						+		encrustation - multilayered;bioerosion	10YR 8/2;10YR 7/4;N9		
		6R-2				□					
								Coralline algae;Porites-branched; Vermetidae;Porites-columnar			Coralgal microbialite boundstone. Porites columnar and branching, with CCA crusts with vermetids and Homotrema. Massive and dendritic, laminated microbialite.

VCD legend

Core recovery

- Core recovered
- No recovery
- ▨ Wash bore
- ▢ High disturbance

- FRW-CorAlgBound
- FRW-CorAlgMicrobBound
- FRW-MicrobAlgBound
- FRW-MicrobBound

Facies

- FRW-AlgBound
- RDST/FLST-Rhodoliths
- DET-Consolidated
- DET-Unconsolidated

- Mixed-carb/vol
- VOL-Clast
- VOL-Basalt
- FALL

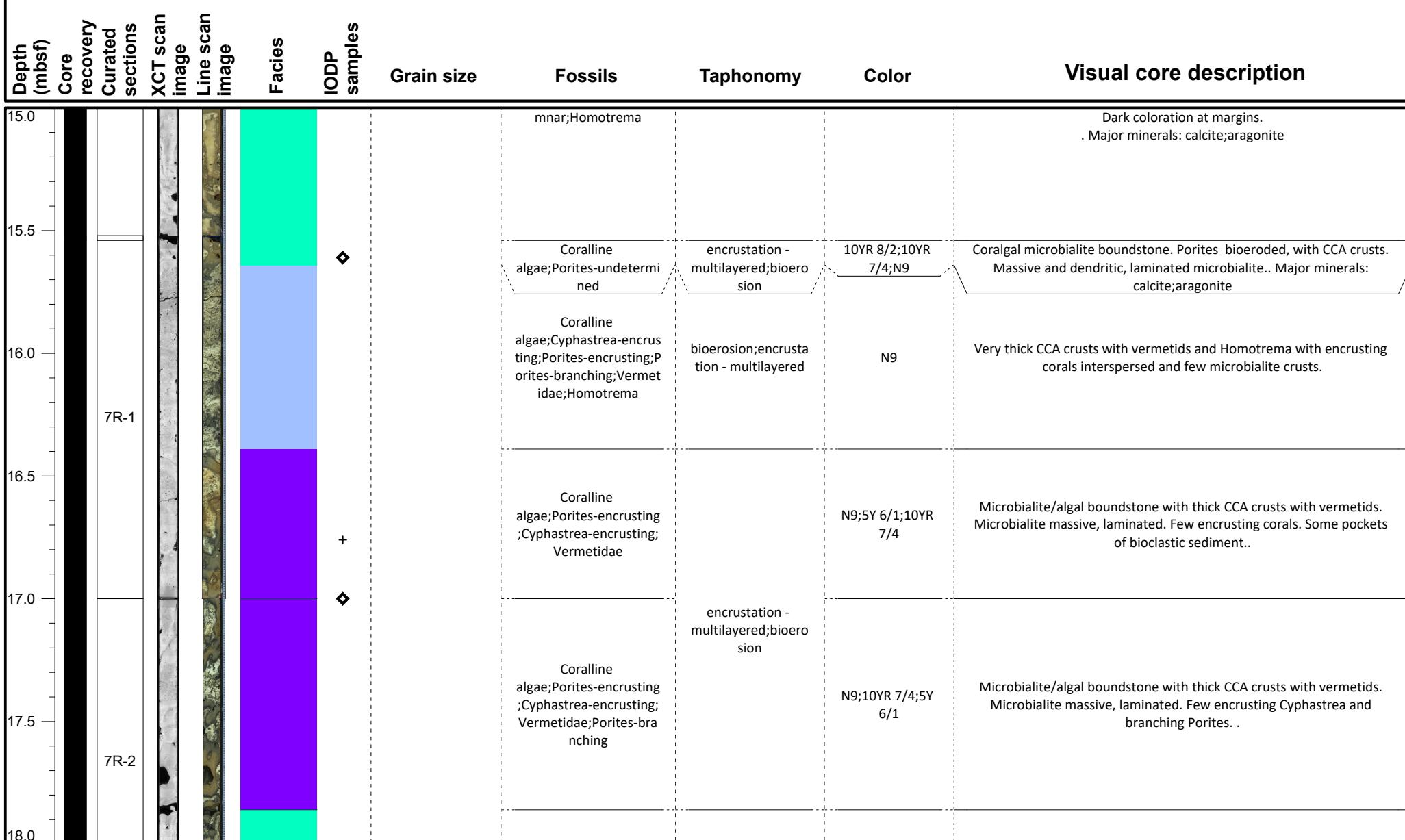
IODP Samples

- ◀ Dating
- MAD/PW
- GEOCHEM
- ◆ PMAG
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VCD legend

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- ▨ High disturbance

- █ FRW-CorAlgBound
- █ FRW-CorAlgMicropBound
- █ FRW-MicropAlgBound
- █ FRW-MicropBound

Facies

- █ FRW-AlgBound
- █ RDST/FLST-Rhodoliths
- █ DET-Consolidated
- █ DET-Unconsolidated

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- █ VOL-Clast
- █ VOL-Basalt
- █ FALL

IODP Samples

- ◀ Dating
- ✚ MAD/PW
- ◻ GEOCHEM
- ◆ PMAG
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18.0						+		Coralline algae; Cyphastrea-encrusting; Porites-branching; Vermetidae	bioerosion; encrustation - multilayered	5Y 6/1; 10YR 7/4; N9	Coralgal-microbialite boundstone. CCA crusts with vermetids. Encrusting Cyphastrea and branching Porites. Microbialite massive and dendritic, laminated.
18.5											
19.0	8R-1							Coralline algae; Cyphastrea-encrusting; Porites-branching; Vermetidae; Porites-columnar; Pocillopora-undetermined; Homotrema; Anthropod			Coralgal-microbialite boundstone. CCA crusts with vermetids and Homotrema. Encrusting Cyphastrea and branching and columnar Porites. Microbialite massive and few dendritic, laminated. Small sediment pockets. Irregular red brown staining. Borings in Porites with geopetals..
19.5						◊					
20.0	8R-2					◀					
20.5						◆					
21.0						+		Coralline algae; Cyphastrea-encrusting; Vermetidae; Porites-columnar; Homotrema	bioerosion; encrustation - multilayered	5Y 6/1; 10YR 7/4; N9	Coralgal-microbialite boundstone. CCA crusts with vermetids and Homotrema. Encrusting Cyphastrea and branching and columnar Porites. Microbialite massive and few dendritic, laminated. Consolidated internal sediments. Irregular red brown staining. Borings in Porites with geopetals..

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Core recovery

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Facies

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IODP Samples

- Dating + MAD/PW
GEOCHEM ◆ PMAG
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24.0						+		algae;Bivalve;Echinoder m;Porites-branching;Ho motrema;Gastropod	encrustation - multilayered	5Y 8/4;5Y 7/2;N9	laminated) Secondary infill in cavities by fine volcanoclastic sediments.. Major minerals: calcite;aragonite
24.5											
25.0	10R-2					◊		Coralline algae;Porites-submassiv e;Porites-laminar;Vermetidae;Homotrema;Gastr opod			Coralgal microbial boundstone. Mostly with laminar porites with cca crust) with vermetids and Homotrema) and abundant microbialite (massive, dendritic, laminated.. Major minerals: calcite;aragonite
25.5											
26.0											
26.5	11R-1							Gastropod;Bivalve;Fora minifera;Echinoderm;Co rallic algae		5Y 7/2	Unconsolidated biotrital sediment- gravelly to very coarse-grained. Volcaniclastics are also present. . Major minerals: calcite;aragonite
27.0								Coralline algae;Coral-branching;C yphastrea-undetermine d;Homotrema;Vermetid ae		N9	CCA and FCA alternating. Some branching coral. . Major minerals: calcite;aragonite

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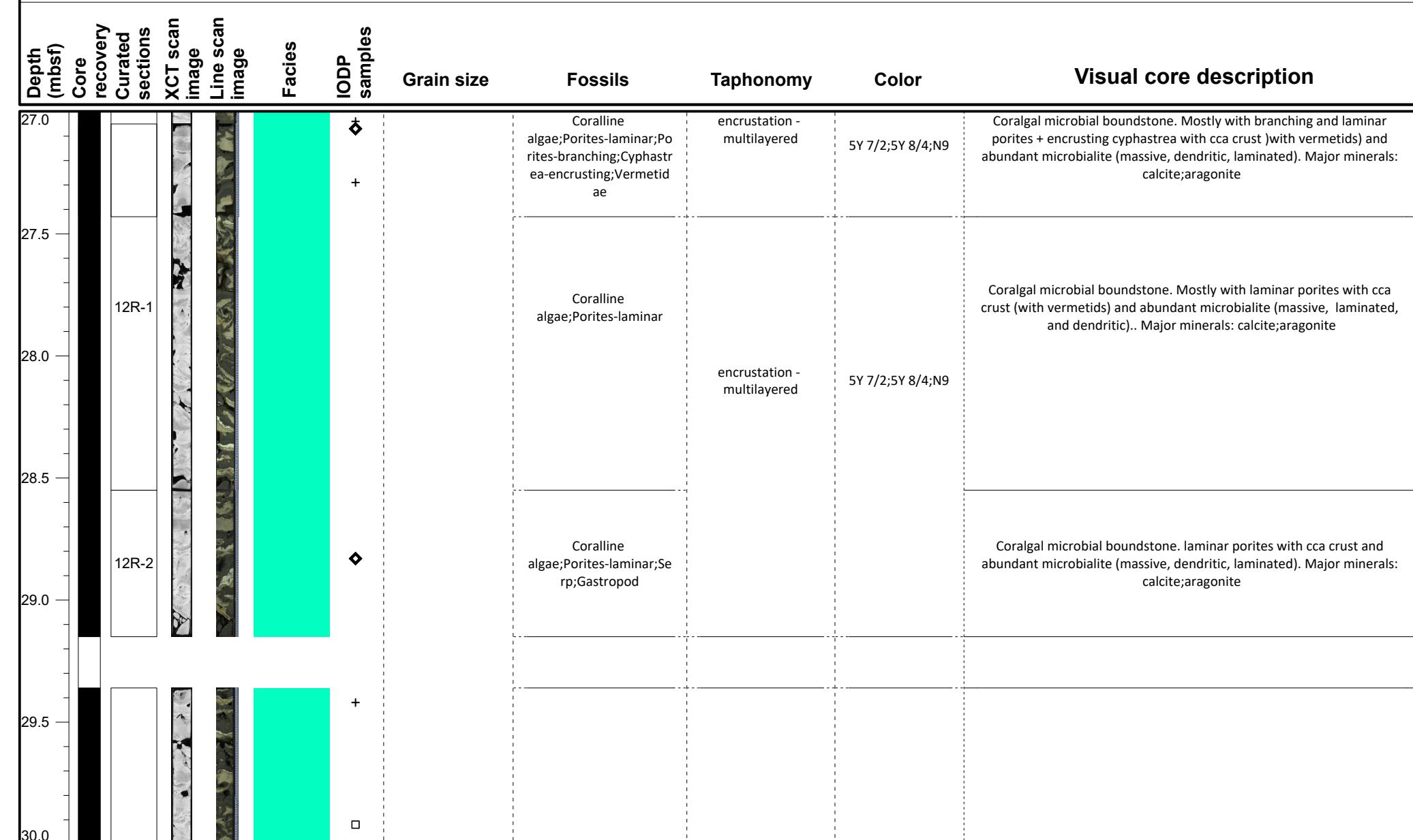
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Facies

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- █ Mixed-carb/vol
- █ VOL-Clast
- █ VOL-Basalt
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IODP Samples

- ◀ Dating
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30.0		13R-1						Coralline algae;Porites-laminar;Ec hinoderm	encrustation - multilayered	5Y 7/2;5Y 8/4;N9	Coralgal microbial boundstone. Mostly with laminar porites with cca crust and abundant microbialite (massive, dendritic, laminated).. Major minerals: calcite;aragonite
30.5						◆					
31.0		14R-1						Coralline algae;Coral-submassive; Coral-undetermined	encrustation - multilayered	5Y 7/2;5Y 8/4;N9	Coralgal microbial boundstone. Mostly with submassive porites with cca crust and abundant microbialite (massive, laminated).. Major minerals: calcite;aragonite
31.5											
32.0		15R-1						Porites-massive;Porites-l aminar	bioerosion	5Y 8/4	Coralgal microbial boundstone. Mostly with massive and laminated porites with cca crust and microbialite .
32.5								Coralline algae;Coral-encrusting;Homotrema		N9;5Y 7/2	Cavity has volcaniclastic sediments.. Major minerals: aragonite;calcite Reworked biotrital sediments in volcaniclastic matrix.
33.0								Homotrema;Gastropod; Montipora-branching;Se rp;Bivalve			Lamellibranch, FCA, and CCA identified.. Major minerals: aragonite;calcite
											Crustose and fruticose coralline algae, and possibly microbialite - a grainy sediment is trapped by algal crusts and in cavities. Major minerals: aragonite;calcite
											Coralgal microbial boundstone. Mostly with undetermined - cyphastrea + porites. With CCA crust and abundant microbialite (massive, dendritic, laminated).. Major minerals: aragonite;calcite

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- █ FRW-CorAlgBound
- █ FRW-CorAlgMicropBound
- █ FRW-MicropAlgBound
- █ FRW-MicropBound

Facies

- █ FRW-AlgBound
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IODP Samples

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- +
- MAD/PW
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33.0								Homotrema;Vermetidae ;Cyphastrea-undetermined;Coral-undetermined		N9;5Y 7/2	Algal boundstone with corals embedded in algal crusts. Vermetids and Homotrema are present within CCA. Some bidetrital sediments are also present (+volcaniclastics?). Major minerals: aragonite;calcite
33.5											
34.0								Gastropod;Echinoderm; Coralline algae;Coral-undetermined	encrustation - multilayered	5Y 8/4	Consolidated grainstone, moderately sorted, with various bioclasts.. Major minerals: aragonite;calcite
34.5								Coralline algae;Homotrema;Vermetidae;Porites-undetermined	bioerosion;encrustation - multilayered	N9;5Y 8/4	Algal boundstone with vermetids and homotrema + coral fragments.. Major minerals: aragonite;calcite
35.0								Vermetidae;Homotrema ;Cyphastrea-undetermined;Cyphastrea-encrusting			Algal boundstone with laminar/encrusting corals - some vermetids and Homotrema.. Major minerals: aragonite;calcite
35.5											
36.0											

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36.0									encrustation - multilayered	N9	
36.5											
37.0		17R-2				◆		Homotrema; Cyphastrea -undetermined; Vermetidae			Algal boundstone with some corals, vermetids, and Homotrema.. Major minerals: aragonite; calcite
37.5						+		Gastropod; Bivalve		5Y 8/4	Bi detrital grainstone. Major minerals: aragonite; calcite
38.0		18R-1				◆		Coralline algae; Vermetidae; Porites-undetermined	encrustation - multilayered	N9; 5Y 8/4	Algal boundstone with heavily bioeroded Porites and Vermetids.. Major minerals: aragonite; calcite
38.5								Coralline algae; Echinoderm; Gastropod; Foraminifera; Porites-undetermined		5Y 8/4	Consolidated bi detrital gst to rst with oversized clasts of CC+microbialite crust. + some heavily bored coral fragments.. Major minerals: aragonite; calcite
39.0								Coralline algae; Bivalve; Gastropod	encrustation -		Coralgal boundstone with thick massive coral and coarse bioclastic

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Facies

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- █ VOL-Clast
- █ VOL-Basalt
- █ FALL

IODP Samples

- ◀ Dating
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39.0								;Echinoderm;Porites-massive;Porites-columnar;Porites-undetermined	multilayered;bioerosion	N9;5Y 8/4;5Y 7/2	material, encrusted by CCA..
39.5	19R-1				♀			Coralline algae;Cyphastrea-undetermined;Vermiidae;Homotrema	bioerosion;encrustation - multilayered	N9;5Y 8/4;5Y 4/1	Mostly algal boundstone with some encrusted corals. CCA + FCA crust. At the top CCA are interlayered with microbialite (Dark grey colour).. Major minerals: aragonite;calcite
40.0					□			Coralline algae	encrustation - multilayered	N9;5Y 8/4	Rhodoliths (fruticose) embedded in a soft bioclastic sediment.
40.5					◆			Coralline algae;Echinoderm;Gastropod;Foraminifera;Porites-undetermined		5Y 8/4	Consolidated biotrital gst to rst with oversized clasts of CCA + some heavily bored coral fragments..
41.0	19R-2				+			Coralline algae;Cyphastrea-undetermined;Arthropod;Pocillopora-branching	encrustation - multilayered	5Y 8/4;N9;5Y 7/2	Altered Coralgal boundstone with altered and bored corals, encrusted by thick CCA. Some consolidated biotrital sediments infilling framework cavities.. Major minerals: aragonite;calcite
41.5					◆			Bivalve;Coralline algae;Coral-undetermined;Foraminifera;Gastropod		5Y 8/4	Bioclastic grainstone with oversized clasts of coralline algae. Major minerals: aragonite;calcite
42.0								Coralline algae;Homotrema;Vermiidae;Pocillopora-branching	bioerosion;encrustation - multilayered	N9;5Y 8/4;5Y 4/1	Mostly algal boundstone with some encrusted corals. CCA + FCA crust. CCA are interlayered and encrusted with bioclastic grainstone.
								Coralline algae;Vermiidae;Homotrema;Cyphastrea-undetermined;Gastropod;Porites	encrustation - multilayered	5Y 8/4;N9;5Y 7/2	Algal boundstone with dominantly rhodolith with coral nuclei (0-18 cm) Algal boundstone predominantly CCA with some coral clasts (18-44 cm).

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42.0	20R-1							tes-submassive Bivalve;Coralline algae;Foraminifera;Gast ropod;Porites-branching		5Y 8/4	Bioclastic grainstone with oversized clasts of coralline algae and coral clasts. Major minerals: aragonite;calcite
42.5						+		Coralline algae;Bivalve;Gastropod ;Echinoderm;Porites-sub massive	encrustation - multilayered;bioero sion	N9;5Y 8/4;5Y 7/2	Coralgal boundstone with thick massive coral and coarse bioclastic material, encrusted by CCA..
43.0	21R-1						◆	Coralline algae;Porites-submassiv e;Gastropod	encrustation - multilayered;bioero sion	N9;5Y 8/4;5Y 7/2	Coralgal boundstone with thick massive coral and coarse bioclastic material, encrusted by CCA..
43.5						▲					
44.0	22R-1							Coralline algae;Bivalve;Gastropod ;Echinoderm;Porites-sub massive;Homotrema	encrustation - multilayered;bioero sion	N9;5Y 8/4;5Y 7/2	Coralgal boundstone with thick massive coral and coarse bioclastic material, encrusted by CCA..
44.5						◆					
45.0						+					Bioclastic grainstone with oversized clasts of coralline algae and coral clasts heavily bioeroded.

VCD legend

Core recovery

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- █ FRW-CorAlgBound
- █ FRW-CorAlgMicrobBound
- █ FRW-MicrobAlgBound
- █ FRW-MicrobBound

Facies

- █ FRW-AlgBound
- █ RDST/FLST-Rhodoliths
- █ DET-Consolidated
- █ DET-Unconsolidated

- █ Mixed-carb/vol
- █ VOL-Clast
- █ VOL-Basalt
- █ FALL

IODP Samples

- ◀ Dating
- GEOCHEM
- IWRH
- ✚ MAD/PW
- ◆ PMAG

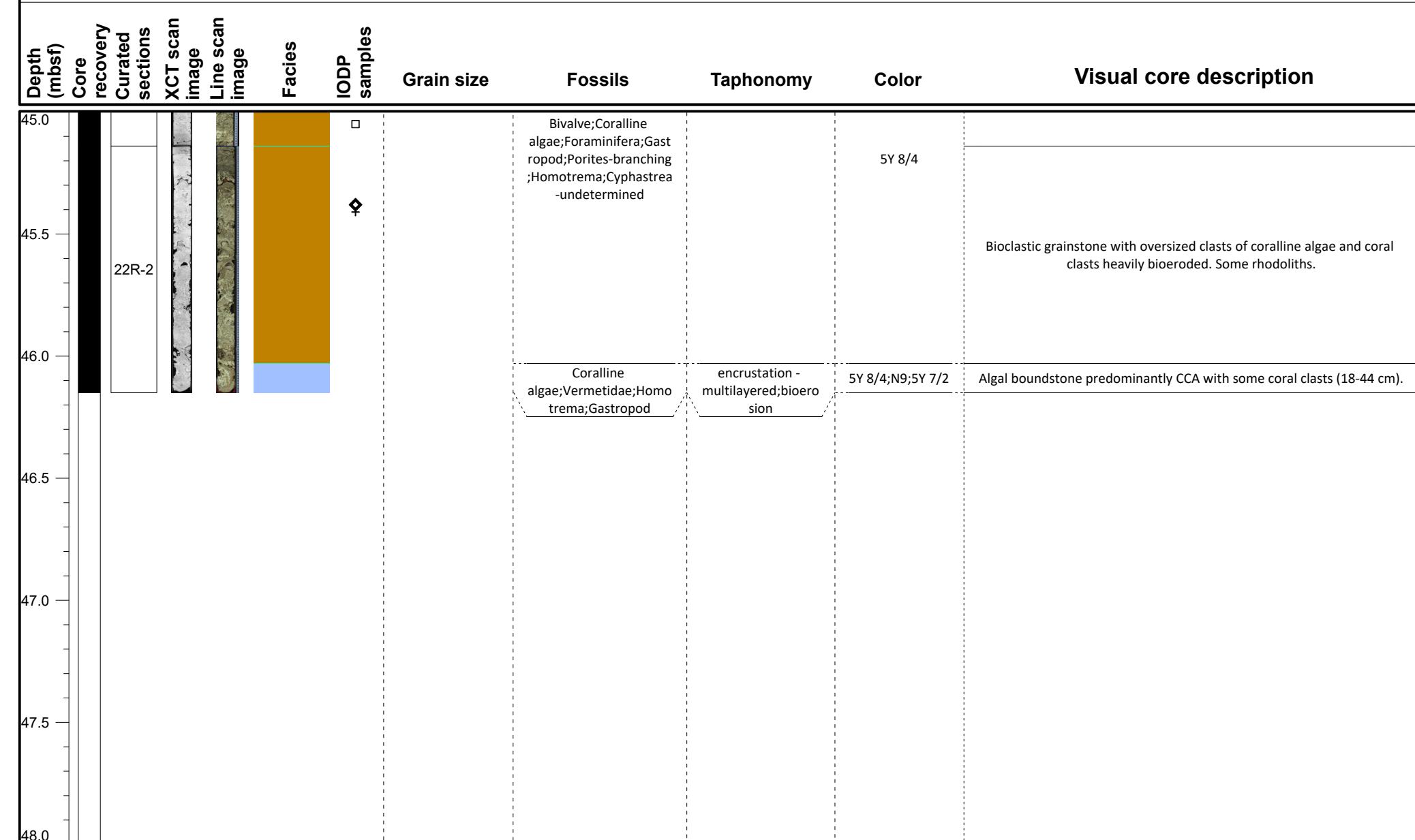
IODP Expedition 389 VCD

Site: M0104A

Hole M0104A

Region: Hilo

Water Depth: 347.0 m



Core recovery

- Core recovered
- No recovery
- Wash bore
- High disturbance

- FRW-CorAlgBound
- FRW-CorAlgMicrobBound
- FRW-MicrobAlgBound
- FRW-MicrobBound

Facies

- FRW-AlgBound
- RDST/FLST-Rhodoliths
- DET-Consolidated
- DET-Unconsolidated

- Mixed-carb/vol
- VOL-Clast
- VOL-Basalt
- FALL