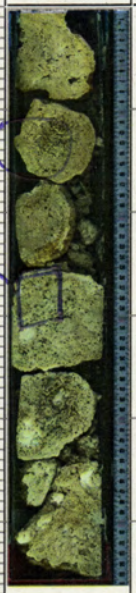
Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	B	1 R	1	0 m	0.56 m

Describer(s): Gischler, Humblet, Braga

Date: 22 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0			F11					macroids
10								dark thin crust of CCA; inside bioeroded coral, foraminifera
20								
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

BRAG

BRAG

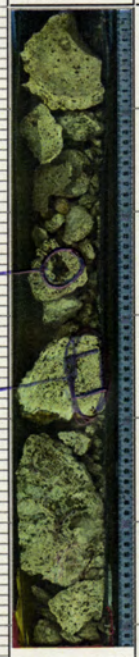
Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	B	2 R	1	1.79 m	2.41 m

Describer(s): Gischler, Humblet, Braga

Date: 22 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0								macroids:
10								thin onks covers of CCA; inside: coral, bryozoa, barnacles, foram; intensively bored
20			F 11	Rhodoliths				
30								
40								
50		barnacles!						
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

ASAM

BRAG

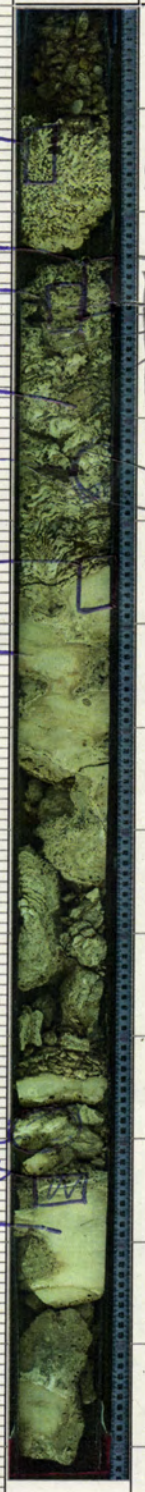
Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	B	3 R	1	2.5 m	3.93 m

Describer(s): Giscles, Humblet, Braga

Date: 22 Feb. 2024



cm	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Description
0		F 11	rhodoliths	
10 BRAG	branched corr. algae			
20 BRAG				
30 POTT	CYPHASTREA (EN) IS			
40 DAT				massive coral
BRAG	CCA-crust with coral			
50	CYPHASTREA (EN) IS			CCA-crust with vermetids
POTT				
60 DAT	Porites (M?) IS	F 2	boundstone	microbialite massive, structureless
70				
80				
90				
100	Porites (PL) IS			
110 BRAG			coralgal – microbialite	
120 DAT	Porites (M) IS			
130				
140				
150	NB: SOME BIOERLOSION PRESENT IN CORALS			

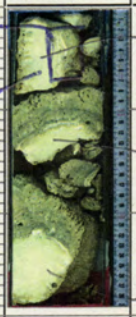
Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	B	4 R	1	5.19 m	5.48 m

Describer(s): Giselles, Humblet, Braga

Date: 22 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0		POLITES (COL) IS? (BIOERODED RIM)	F2	coralgal-mic. bst.				coral (Porites)
10		POLITES ISN (BIOERODED RIM)						thin CCA-encst
20		POLITES ISN						massive, structure-less microbialite, at tops dendritic
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

BRAG

DAT

Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	B	5 R	1	5.56 m	6.45 m

Describer(s): Gischler, Humblet, Braga

Date: 22 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0		Porites ISN	F2	Coralgal – microbialithe boundstone				coral (branched/ columnar Porites)
10								
20		Porites (col) IS						thick CCA-crusts (with vermetids, Homotrema, bryozoa)
30								
40								
50								
60								massive, structureless microbialite (tops dendritic)
70								
80		Porites (col/BR) IS						
90								
100								
110								
120								
130								
140								
150								

BRAG

DAT

POTT (CORAL TOP)

DAT

BRAG

Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	B	6 R	1	6.72 m	7.32 m

Describer(s): Gilchrist, Humblet, Braga

Date: 22 Feb. 2024

POTT

BRAG

DAT

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0		Porites	F2	bst. coralgal - microbialite				fragments/pieces of coral, CCA-crusts, and microbialite
10		Porites (COL) IS						
20		Porites (COL/BR) ISN						
30								
40								
50		Porites ISN						
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	B	7 R	1	7.83 m	9.17 m

Describer(s): Grishkes, Humblet, Braga

Date: 22 Feb. 2024

cm	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0					///		columnar coral
10	ENTOBIA BORINGS		coralgal-microbial	bindstone			thin CCA-crust
20	PORITES (COL) IS	F2					thin microbialite crust
30							
40							
50							
60							basalt with
70							aphanitic groundmass
80							crystallinity: porphyritic
90		F9	basalt				large (up to cm-sized) coalesced bubbles
100							
110							
120							
130							
140							
150							

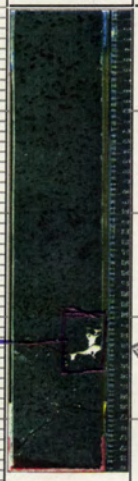
Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	B	7 R	2	9.17 m	9.62 m

Describer(s): Gischler, Humblet, Braga

Date: 22 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0								basalt
10			F9	basalt				aphanitic groundmass
20								cryst.: porphyritic
30		← fine, bioclastic sed.						bioclastic, consol.
40								bubbles mm-sized and cm-sized (coalesced)
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	B	8 R	1	10.59 m	12.07 m

Describer(s): Giscuke, Humblet, Braga

Date: 22 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0								
10								
20								basalt
30								groundmass aphanitic
40								crystallinity porphyritic
50								bubbles small (mm-) and large (cm-sized) coalesced
60			F9	basalt				
70								
80								
90								
100								
110								
120								
130								
140								
150								

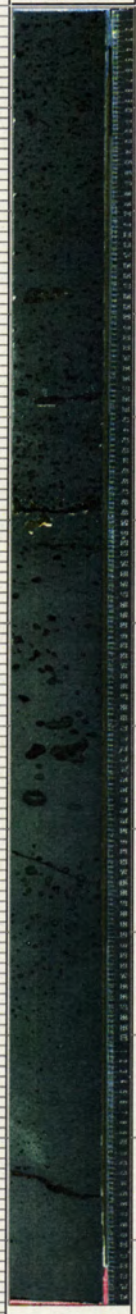
Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	B	8 R	2	12.07 m	13.33 m

Describer(s): Gilchrist, Humblet, Braga

Date: 22 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0								
10								
20								basalt aphanitic groundmass crystallinity porphyritic bubbles small to large (mm-cm-sized, coalesced)
30								
40								
50		biodast. sediment	F9	basalt				
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	B	9 R	1	13.34 m	14.84 m

Describer(s): YM - PK - DP

Date: 22/02/2024

cm	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0							Massive with coalesced elongated vesicles at the Base. Non porphyric + aphanitic
10							
20							
30	what precipitate (carbonate?)						Vesicular Basalt (Non porphyric + aphanitic). Vesicles size increasing downward from 1 mm to 10 mm (coalesced at the base) Abundant vesicles.
40							
50							
60	carbonate in vesicles						Vesicular Basalt (Non porphyric aphanitic) with vesicle size decreasing downward. Abundant vesicles
70							
80							
90	carbonate infill in vesicles						Vesicular Basalt (Non porphyric aphanitic) with vesicles size increasing downward but decreasing abundance.
100							
110							Fractured.
120							Vesicular Basalt (Non porphyric aphanitic) with small subrounded vesicles (rounded)
130							
140							
150							

Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	B	9 R	2	14.84 m	16.14 m

Describer(s): YH-PK-DP

Date: 22/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0		carbonate infill						Vesicular Basalt (na porphyric + aphanitic) with subnna to mm-size vesicles, round, abundant. Some coalesced at the base
10		carbonate infill						
20								
30								
40								Vesicular to Massive (no vesicles), mm-porphyric and aphanitic Basalt. Some abundant 3-10 mm round vesicles, coalesced. Disappearing downward.
50		less and less vesicles						
60								
70								
80								
90								
100								Vesicular Basalt, mm porphyric and aphanitic, 1-2 mm vesicles, mostly rounded, abundant.
110		carbonate infill						
120								
130								
140								
150								

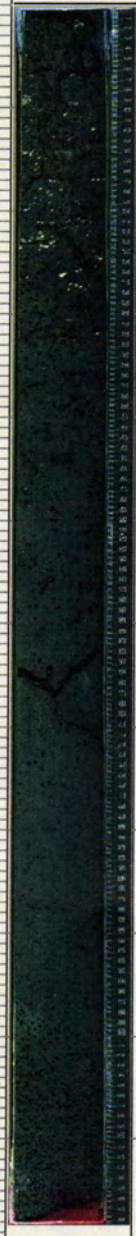
Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	B	10 R	1	16.09 m	17.27 m

Describer(s): YH - PK - JP

Date: 22/02/2024



Corals / Fossils: Some carbonate infill

Litho Unit/ Facies / Major Lithol. / Mineral. / Core Distur. / Biotur.:

Description:

0 cm: Vesicular Basalt with reminded, 2-5 mm moderately abundant Vesicles. Non porphyric + aphantic

Less and less Vesicles

30 cm:

Dominantly Massive Basalt, Non porphyric aphantic. Some occasional (5-10 mm) rounded Vesicles sometimes coalesced at the top of the interval

100 cm: Vesicular Basalt with small round, possibly coalesced Vesicles (1-3 mm) Non porphyric + aphantic