



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	1 R	1	0 m	1.36 m

Describer(s):	Hamon / Potts / Khanna	Date:	15-2-2024
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cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								Consolidated bioturbated Rt / Crst
10		Porites Rhombus + Branch (?)						Some coral clasts with abundant oyster shells
20		Oyster shells						
30		Gastropod						
40		Oyster shells						
50		Porites clast Porites laminar Porites Gastropod + Echinoid spines	F-5	Consolidated				
60		Porites with CCA						
70								
80		Laminar Porites						Congl - Microbial it. Rt
90		Oyster shells Branching Porites Laminar Porites Loose Sed + oyster shell						Mostly branching and laminar Porites + some cavities with soft sediments
100		Branching Porites Laminar Porites Consolidated infill						
110		Porites clast with CCA	L-2					
120		Soft Sediment Laminar Porites						
130		Echinoid spine + gastropod + Bivalve						
140								
150								

DAT

Asami

Asami

DAT

POTS
(sed sample)

DAT



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	1 R	2	1.36 m	1.76 m

Describer(s):

Date:

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Porites clasts						Coralgal Microbialite
		Porites branching						Boundstone
10		Gastropod + bivalves						
		Laminar Porites with twin						with Porites -
20		Oyster shell						mainly branching +
		CCA + microbialite						laminar.
30		Branching Porites						
		with CCA + microbialite						
40		CCA						
		Levitt						
50		(Strobiliferous dendritic)						
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	M104	A	2 R	1	1.8 m	3.26 m

Describer(s): *Hamon / Potts / Khanna*

Date: *15-2-2024*

	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
	cm							
	0	<i>Porites heavily bored</i> <i>CCA</i> <i>lamelli branch</i>						<i>Corals</i>
	10	<i>Porites</i> <i>Porites - Laminar</i> <i>Microbialite</i>						<i>Microbialite</i>
	20	<i>Porites - Laminar</i> <i>+ Microbialite (Stenohalys)</i>						<i>Boundstone</i>
	30	<i>Porites - branching</i>						
	40	<i>Partially cemented-bivalve</i> <i>(Centropages bivalve)</i> <i>worm tube</i> <i>Scleractinia sp.</i>						<i>Mostly with branching Porites</i>
	50	<i>Branching Porites + CCA</i>						<i>Laminar + Peccolites</i>
	60	<i>Gastropod</i> <i>Branching coral</i>						<i>with CCA</i>
	70	<i>Microbialite</i>	<i>2</i>	<i>Microbialite</i>				<i>abundant Microbialite</i> <i>(Laminated to Stenohalys)</i>
	80		<i>1</i>	<i>Microbialite</i>				<i>+ dendritic</i>
	90	<i>Laminar Porites</i> <i>Microbialite (Laminar)</i> <i>dendritic</i>						
	100	<i>branching Porites</i>						
	110							
	120	<i>Laminar Porites with CCA crust</i> <i>Centropages + Stenohalys</i>						
	130	<i>Laminar Porites</i>						
	140	<i>Microbialite (dendritic)</i> <i>Laminar CCA</i>						

Bray
ASAMI

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DAT

DAT

ASMI



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	2 R	2	3.26 m	4.51 m

Describer(s): YH-AP-PK

Date: 15-02-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		CCA (Bored) with Vermithal laminar Pairs heavily Bored						
10		Pairs						
20		cyphostoma encrusting						
30		Pairs Branding (with) thin CCA						Coral Branches are embedded in massive structures No dendritic micritic
40		Biodetrital coarse sed						
50		encrusting Pairs + CCA (Bored)						
60		Pairs Branding Biodetrital coarse sed (gothic Bivalves Pairs Branding & druse)						
70								early filled by dendritic micritic
80								
90								
100		Biodetrital sed (Bygonia)						
110		Pairs Branches + thin CCA						Coral branches embedded in Massive structures micritic
120		Bored						
130								
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	3 R	1	4.55 m	6.06 m

Describer(s): Gisdler, Humblet, Braga

Date: 16 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Porites (BM) IS?						columnar Porites
10		Porites (Col) IS						
20								CCA - crusts
30		Porites (BM/BR) IS?						with some vermetoids, Homothoea rare
40		Porites (PL) IS						massive, dendritic microbialite;
50		Sediment						laminated (10 VR 8/2)
60		encr. bryozoa						
70		Porites? heavily bored (PL) IS						
80		Cyphastrea (EN) CHECK.						
90		Porites (PL) IS						
100		Sediment						
110		Porites (BR) IS?						
120		Porites (PL) IS						
130		Porites (SM) IS?						
140		bryozoa						
150		Porites (PL?) IS						

(*) Porites? Montipora?

NB: SOME CORALS HEAVILY BORED (ENTOBIA)



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	3 R	2	6.06 m	7.26 m

Describer(s): *Giuliano, Humblet, Braga*Date: *16 Feb. 2024*

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Porites (BM/BR) IS?						boad coral (branched Porites)
10		ECHINOID SPINES						
		Porites (B?) IS?						
20		Porites HIGHLY BIOERODED / ENTOBIA (BM) IS						
30		Porites (BM/BR) IS						CLA - crust with Urometids, Hamotema, some bryozoa, other forams (?)
40		BARNACLE?						
50		CRAB CARAPACE, GASTROPODS BIVALVES						
60		consol. sed. pocket	F2					microbialite massive, laminated (with bioclastic sediment pockets)
70		Porites (BM/BR) IS PARTLY BIOERODED / ENTOBIA						
80		Cyphastrea (EN) IS						
90		Porites (BM) IS?						
		Porites (BR) IS?						
100		HIGHLY BIOERODED / ENTOBIA						
		Porites (B?) IS?						
110		Porites (BR) IS						
120		Porites (BR) IS?						
130								
140								
150								

DAT

RENE

BRAG

DAT

coral - microbialite boundstone



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	4 R	1	7.3 m	8.8 m

Describer(s):

Grischler, Humbert, Braga

Date:

16 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
DAT		Pontes (BM/BR) IS						• Columns and branched Pontes coral (some banded)
10								
20								
30		Pontes (BR) IS						• CCA-crusts with vermetids, Homotrema
40		Highly bioeroded/ENTOBIA						
BRAG								• microbialite crusts massive, dendritic, laminated
50		Pontes (BR) IS						
60		Bioeroded/ENTOBIA						
70			F2					Sediment, bioclastic, in pockets of microbialite
DAT		Pontes (COL/BR) IS						
80								
90		Pontes (COL/BR) IS						
POTT		sediment						
100								
110		Cyphastrea (EN) IS						
DAT		Pontes (COL/BR) IS						
120								
130		Pontes (BR?) IS						
140		Highly bioeroded/ENTOBIA						
150		Pontes (BM/BR?) IS?						



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

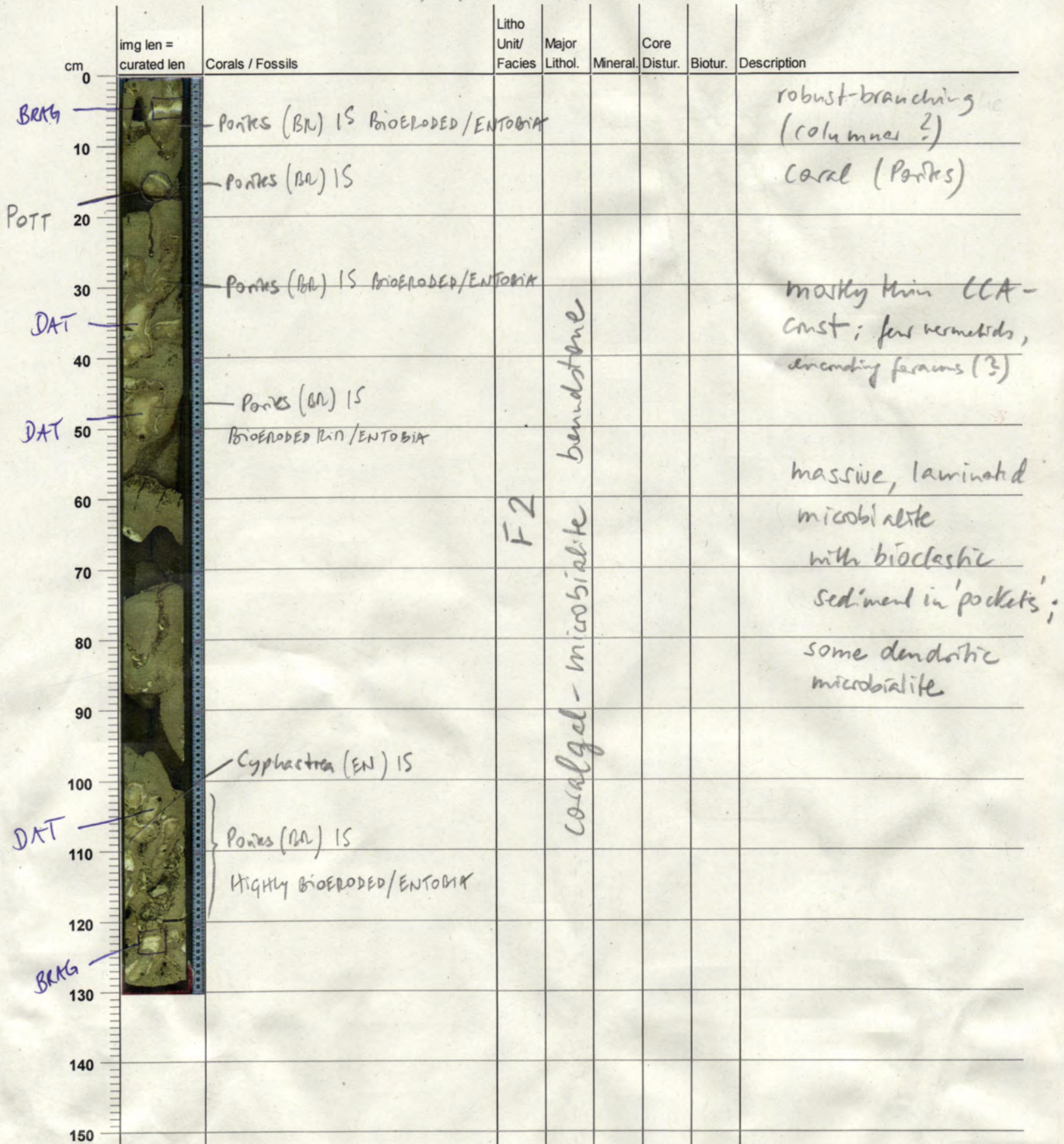
Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	4 R	2	8.8 m	10.1 m

Describer(s):

Güschke, Humblet, Braga

Date:

16 Feb. 2024





Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	5 R	1	10.04 m	11.54 m

Describer(s): *Gischa, Humboldt, Braga*

Date: *16 Feb. 2024*

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								massive and branched coral
10		<i>Porites (BN/BL) IS?</i> <i>Highly Pore-roded / ENTobia</i>						
20		<i>Porites (PL?) IS</i>						
30								CCA - corals with Vermetids
40								
50		<i>Porites (SM) IS</i>						• massive, laminated microbialite • dendritic microbialite
60								
70								
80								
90		<i>Cyphastrea (EN) IS</i>						
100		<i>Cyphastrea (EN) IS</i>						
110		<i>Porites</i> <i>PROBABLY SAME Colony IS</i> <i>(M with knobby surf.)</i>						
120		<i>BIOERODED RIM (ENTOBIA)</i>						
130		<i>Porites (PL?) IS</i>						
140		<i>CYPHASTREA (EN) IS</i>						
150		<i>Porites IS?</i>						

DAT

DAT

BRAG

POTT

GISC

POTT

DAT

BRAG

boundstone
F2
microbialite
coralgal



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	5 R	2	11.54 m	12.81 m
Describer(s): Gischler, Humblet, Braga						Date: 16 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								massive and robust- branched Porites
10		Porites IS?						
20		Porites (BR?) IS?						CCA - corals with vermetids, some Monostroma
30		CYPHASTREA (EN) IS						
40		Porites (BR?) IS SAME COLONY?						
50		Porites (M) IS [BASE OF BR COLONY?]						massive and dendritic microbialite, laminated
60								
70		Porites (BR?) IS						
80		Porites (BR?) IS						
90		Cyphastrea (EN) IS						
100		Porites (BR) IS						
110		Porites						
120		Porites						
130								
140								
150								

F2
coralgal-microbialite bandstone

DAT
POT
BRAG
BRAG
DAT



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	6 R	1	12.79 m	14.25 m
Describer(s): <i>Gisukes, Humblet, Braga</i>						Date: <i>16. Feb. 2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								Columns and branched coral;
10		— <i>Porites (BR/CL) IS?</i>						towards base = dark coloration at coral perimeters
20		— <i>Porites (BM) IS?</i>						CLA - crusts with vermetids
30		— <i>Porites (CL) IS</i>						
40		— <i>Porites (CL) IS</i>						
50								microbialite
60		— <i>Cyphastrea? (EN) IS</i>						massive, dendritic; laminated
70		— <i>Porites (BM/BR) IS</i>						
80		— <i>Cyphastrea (EN) IS</i>						
90		— <i>Porites (CL) IS</i>						
100		— <i>Porites (CL) IS</i>						
110		— <i>Cyphastrea (EN) IS</i>						
120								
130								
140		— <i>Porites (BM/BR) IS?</i>						
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	6 R	2	14.25 m	15.54 m
Describer(s): <i>Grisham, Humblet, Braga</i>						Date: <i>16 Feb. 2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		— <i>Porites (BR?) IS?</i>						<i>largely columnar coral</i>
10								
20		— <i>Porites (BR?) IS?</i>						
30		— <i>Porites (BR/Col?) IS</i> <i>HIGHLY BIOERODED/ENTOMBIA</i>						<i>CCA - corals with vermetids and Monohemia, some Monohemia</i>
40	<i>POTT</i>	— <i>Porites (Col) IS</i>						
50	<i>DAT</i> <i>BRAG</i>							<i>microbialite massive, dendritic, laminated</i>
60								
70								
80	<i>BRAG</i>							
90	<i>DAT</i>	— <i>Porites (Col) IS</i> <i>LIT BIOERODED/ENTOMBIA</i>						
100								
110								
120		— <i>Porites (Col) IS</i>						
130	<i>DAT</i>	— <i>Porites (Col) IS</i>						
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	7 R	1	15.52 m	17 m
Describer(s): <i>Giisuke, Humboldt, Brage</i>						Date: <i>16 Feb. 2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		PORITES? COMPLETELY BIOERODED	F2					coralgal - microbialite bandstone, as above
10		CYPHASTREA (EN) IS						
20		* PORITES (EN) IS						
30		CYPHASTREA (EN) IS						very thick CCA - corals with vermetids and some Monstrocoma;
40		* PORITES (EN) IS	F4					corals interspersed
50		* WITH UPWARD " " " "						very few microbialite corals
60		microbialite						
70		PORITES (BF?) IS						
80								
90		PORITES (EN) IS						• some coral
100		CYPHASTREA (EN) IS						• thick CCA - corals with vermetids
110			F3.5					
120								• microbialite massive, laminated;
130								some bioclastic sediment in 'pockets'
140		CYPHASTREA (EN) IS dc ~ 1.5-2 mm						
150								

POTT

BRAG

BRAG

BRAG

POTT



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	7 R	2	17 m	18.32 m

Describer(s):

Gülden, Humblet, Braga

Date:

16 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								• thick CCA - crumb with vermetids
10		CYPHASTREA (EN) IS						• a few corals
20		PORITES? (BF)						
30								• microbialite massive, laminated
40	BRAG	Cyphastrea (EN) IS	F3.5	microbial - algal boundstone				2 colors for microbialite: 5Y 6/1 10YR 7/4
50	POTT							
60	DAT	PORITES? (BM) IS						
70								
80		PORITES (BM) IS						
90								columnar Porites coral
100	DAT	PORITES (BR) IS (SEVERAL BIFURCATIONS)						CCA - crumb with vermetids
110			F2	microbialite coregal				
120								microbialite massive, laminated and dendritic
130	BRAG	CYPHASTREA (EN + UPWARD PROJECTIONS) IS						
140	POTT							
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	8 R	1	18.29 m	19.77 m
Describer(s): Grishler, Humblet, Braga						Date: 16 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		CYPHASTREA (ENT+Br) IS						corals, some heavily bored
10		Porites (BM) IS N						
		Pocillopora IS N						
20		} Porites (BM/BR) IS						CCA - crust with resembling, Monstrea
30								
40								
		Cyphastrea (ENT+Br) IS						microbialite massive, laminated; few dendritic; little detrital sed. 'pockets'
50								
60								
70		irregular red-brown stain	F2					
80		BARNACLE						
90								
100		Porites (COL?) IS						
110								
120		bored Porites w/ geopods						
130		Cyphastrea (EN) IS						
140		Porites (COL/M?) IS						
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	8 R	2	19.77 m	21.08 m

Describer(s): Gruber, Humblet, Braga

Date: 16 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								corals
10		Porites (COL) IS						
20								CCA-corals with vermetids and
30		Porites (COL) IS						Monotremata
40		CYPHASTREA (EN) IS						
50		Porites (COL) IS						microbialite massive, some-
60								times dendritic (towards open cavity).
70								laminated;
80		Porites (COL?) IS?						consolidated internal sediment
90		CYPHASTREA (EN) IS						
100		CYPHASTREA (ENT UPWARD PROJECTIONS) IS ϕ c. 2/5 mm						
110								
120								
130		HIGHLY ALTERED CORAL						
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

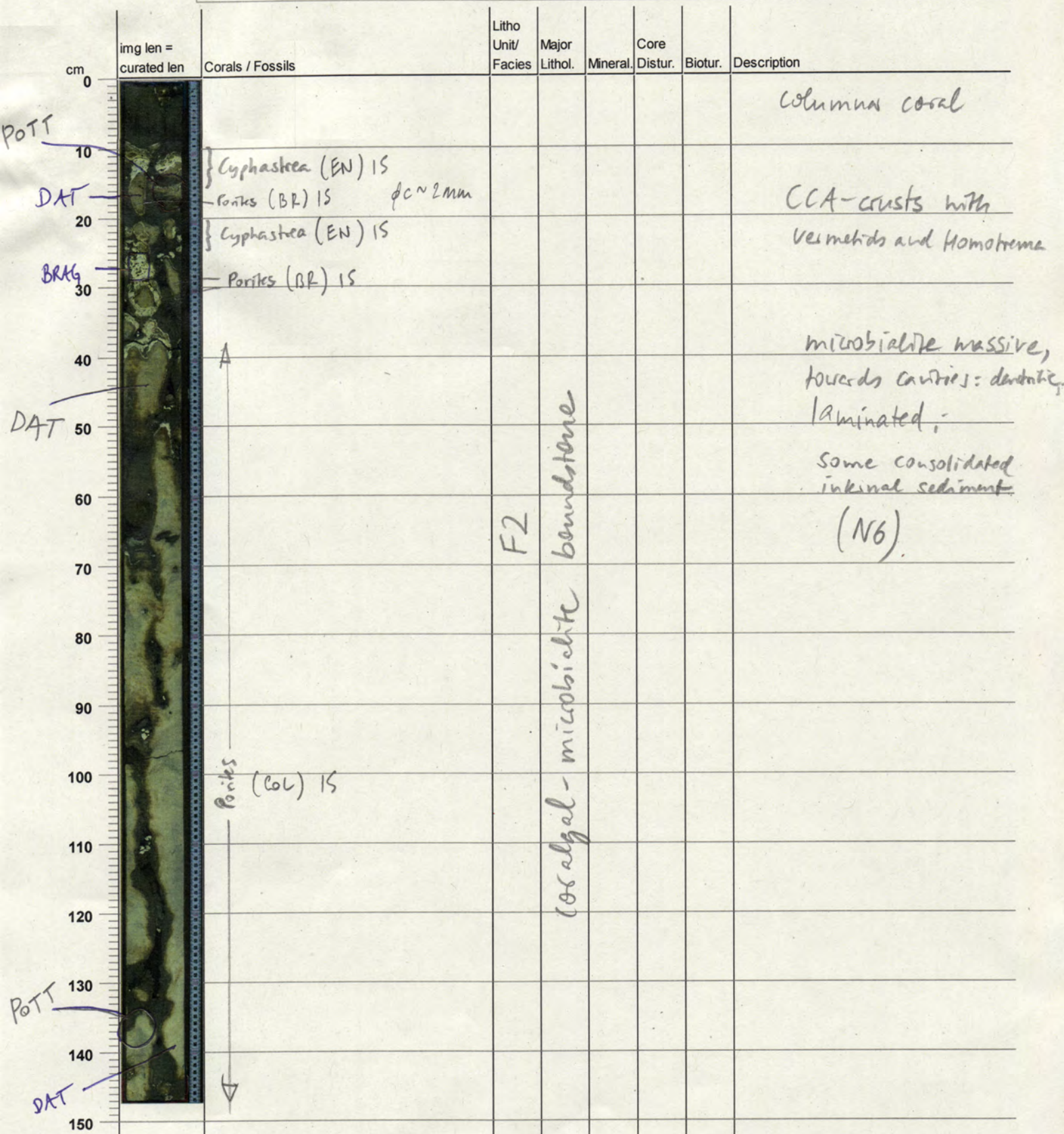
Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	9 R	1	21.06 m	22.53 m

Describer(s):

Gardner, Humblet, Braga

Date:

16 Feb. 2024





Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	9 R	2	22.53 m	23.18 m

Describer(s):

Gisler, Humblet, Braga

Date:

16 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								coral
10		GASTROPOD INTERNALISED CLAB CARAPACE						
20		CA CLASTS ECHINOID SPINES MOLLUSC SHELLS						CCA-crust with vermetids and Homonema
30		Pores (COL) IS						
40			F2					microbialite
50								massive, dendritic pore open cavities; laminated (N9)
60		Pores (COL) IS						
70								
80								
90								
100								
110								
120								
130								
140								
150								

DAT

BRAG

DAT



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	10 R	1	23.25 m	24.75 m
Describer(s): YH-DP-PK						Date: 16/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		considerable sed: Pelecypoda, bryozoans, gastropods						Reddish colour
20		Base of Robust branching Porites						
30								thin laminar micritic unit (Dark)
40								
50		Porites Branch with thin CCA and laminar micritic		Bst				
60								
70		CCA						
80		CCA + Hamatremma	F2	Micritic				Reddish colour in cavity
90		Loose broken (xs) branches (Robust) of Porites. Boral after deposition (gastropod)		coral				
100								Laminar columnar to dendritic micritic partially filling Framework cavities (Dark)
110								Secondary infill by fine grained volcanic sediments
120		thicker (un-sed) CCA with Hamatremma. Boral						
130								
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	10 R	2	24.75 m	25.4 m

Describer(s): YH-PK-DP

Date: 16/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		thick CCA. Bored						
10								
20		Points lamina (IS)						dm-scale alternation formed by laminar corals, thinly encrusted by CCA and massive laminae to lenticular micritic
30								
40		thick CCA with vermetids and Hemitoma. Bored						
50		Some Echinogastropod shells						
60		Points lamina (IS) Bored with geopetal infill						
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	M104	A	11 R	1	26.2 m	27.43 m

Describer(s): YH-DP-PK

Date: 16/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10	POTT (Seal)	gastropods, urchin spines, bivalves, coral debris, coral debris, LBF	F0	Fall-in				Medium to gravelly - very coarse grained Biddulphal and Volcanic Fe schist → Fall in
30	POTT (Seal)			Fall-in				
40	BRAG							
50	POTT (Seal)	cyphospongia Branch thick CCA + FCA, Boud. Homonium + large Vermetids	F4	Bst				thick algal crust (complex structure)
60	BRAG			Algal				
70	DAT	Porites Fragile Branching Vermetids						coral Microcrat Bst.
80		cyphospongia encrusting, with CCA	F2	Bst				Microcrat fills the framework cavities, dominantly massive laminar and dendritic at the top
90		Porites fragment with CCA						
100		is Porites possibly laminar with thin CCA crust (Homonium)		coral Microcrat				
110	DAT							
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	M104	A	12 R	1	27.05 m	28.55 m

Describer(s): YH-DP-PK

Date: 16-02-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10								
20								
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

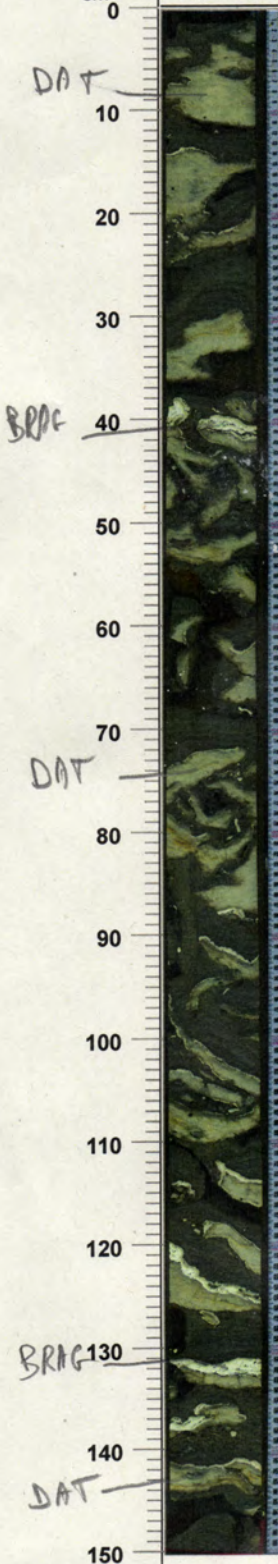
DAT

BRAC

DAT

BRAC

DAT



Laminar Porites. A few
fragments with geopores

CCA crust with Vermetids

Laminar Porites

Biodolinital in Porites

Laminar Porites with
thin CCA

CCA crusts. Vermetids



F2

Bst

Microolith

coral

dm-scale alternation of
laminar coral with thin
(few mm) CCA crust (occasionally
thicker) and Microolith
filling framework cavity.
Microolith are laminar
massive laminar

Several generations of
Microolith with cross-
cutting relationships.

Dendritic Microolith



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	12 R	2	28.55 m	29.15 m
Describer(s): YH/DP/PK						Date: 16/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		laminar Porites with thin (mm) CCA sedimenting fill in cavity.		coral				coraloid Microbiotic Bst. Dominated by laminar coral with thin CCA and massive laminar to dendritic Microbiotic.
20		CCA						
30		thin CCA with Vermetids. Bored.						
40		Biodetrital sed. (gastropod, scaphoid...)						
50		laminar Porites with thin (mm) CCA a few borings in corals.						Reddish colour in coral
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	M104	A	13 R	1	29.36 m	30.76 m
Describer(s): YH-SP-PK						Date: 16-02-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Boings (gropetol)						
10		Echinoid spine + coral debris						
20		CCA (Bored)						
30								Dim-scale alternations
40		CCA (Bored)						of laminar corals, thin CCA
50		2nd sediment infill						crusts and thick Microstict
60								filling framework cavity.
70								Microstict are dominantly
80								massive laminar to
90								dendritic (possibly several
100								generations)
110								
120								sediment infill in remaining
130								centres.
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	14 R	1	31.16 m	31.43 m

Describer(s): YH-DP-PK

Date: 16/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Undetermined pieces of Porites (laminar?)	42	coral, micritic				Fragmented section. Pieces of coral, Bored, encrusted by massive laminar micritic
10								
20		Submassive Porites (ISX?) Bored						
30								
40								
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	M104	A	15 R	1	31.57 m	33.06 m

Describer(s): YH-DP-PK

Date: 16/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		Massive Porites	F2	coralgal				
20		Laminar Porites						Volcanoclastic sed in cavity.
30		Base CCA crust Altered coral						Blackened, hardened, Base soft.
40		BRAG ASAH (Lamellaria)						
50		BRAG POTR (Sed)						
60		BRAG						
70		POTR						
80		BRAG						
90		POTR						
100								
110		BRAG						
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	M104	A	15 R	2	33.06 m	33.62 m

Describer(s): YH- DP- PK

Date: 16-02-2024

	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
POTR	0	Loose Piece of Cyphoskela						thick CCA crust
BRAC	10	CCA (thick) with Vermetids and Heteropora (Bored)						
BRAC	20	Vermetids						
BRAC	30	Loose Piece of Cyphoskela Heteropora	LS	BS				
BRAC	40							
BRAC	50	Loose Piece of coral, highly Bicorallid		Algal				internal sediment (Bicorallid and Volcanic ash)
	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	M104	A	16 R	1	33.84 m	34.7 m

Describer(s): YH- DP- PK

Date: 16/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Fragment of algal crust and Microdictya						consolidated fine to medium grained (even coarse) Bst.
10		Bioclastic Grt. Achinnid algal, coral debris	F5	consolidated Bioclastic				
20		CCA + Vermetids						
30								
35	BRAC	CCA, thick with Vermetid Bast.						Algal Bst with thick CCA crust
40								
50		thin Microdictya crust (?)						
60		CCA, Vermetids (Hondanus) Bast	F4	Bst				
70	BRAC	Partly unidentified. Bast		Algal				
75	DAT (?)							
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	M104	A	17 R	1	35.02 m	36.52 m
Describer(s): YH-DP-PK						Date: 16/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		cyphostrea piece 15X						
20		cyphostrea piece 15X						
30		cyphostrea piece 15X						
40		cyphostrea piece 15X						Algal Bst encrusting pieces of reworked corals. Some vermetids and Hormothere.
50		cyphostrea piece 15X						
60								
70		cyphostrea laminae						
80			F4	Bst				
90								
100				Algal				
110								
120		Denticle Micachialite + Loose Biodolite Sediment						
130								
140		possible cyphostrea pieces heavily encrusted in micachialite cur						
150								

BRAC

BRAC

POT

BRAC

BRAC

↑
Bringing
down
CCA cur, vermetids, Hormothere.
thick
Algal
↓



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	17 R	2	36.52 m	37.16 m

Describer(s): YH-DP-PK

Date: 16/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
BRAG		Fragment of altered cyphostrea						Algal Bkr. CCA crust
10								
20		thick CCA crust with Hemitelia and Vermetidae Boed.	HR	Algal				
30								possible Microbials crust lining cavity.
40								
50		Bivalves, under spines, gastropods algal and coral Fragments	LS	consolidated bioclastic				consolidated Bioclastic Gsk with associated dark of CCA.
60		Reworked piece of CCA + microbial crust.						
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	M104	A	18 R	1	37.37 m	38.23 m

Describer(s): YH-DP - PK

Date: 6/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		gastropods, Bivalves	F5	Coarct. Biotur.				
BRAG 10		Heavily Bivalved Pairs						
BRAG 20								Algal crust.
BRAG 30		CCA, Some Vermetids.	F4	Algal Bst				
BRAG 40								
BRAG 50		Porites fragment, gastropod, Bivalves, LRF, Edmond, CCA coral clasts.						consolidated Biotur.
BRAG 60		CCA crust + Pteridolites						Gst to Rst (Biotur.) with crinoid clasts of CCA + Pteridolites crust heavily biot. some coral fragments
BRAG 70			F5	consolidated Biot.				
BRAG 80		Porites + CCA crust. Biot. and altered.						
BRAG 90								
BRAG 100								
BRAG 110								
BRAG 120								
BRAG 130								
BRAG 140								
BRAG 150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	19 R	1	38.77 m	40.27 m

Describer(s): YH- DP- PK

Date: 16/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		thick CCA crust (Vermetidae)						
10		Massive Porites						coralized Rst with thick massive coral and coarse Bioclastic material Encrusted by CCA.
20		consolidated Rst (Bivalves and gastropods)		Bst				
30		Massive Porites						
40		Pieces of Porites, Bivalves...	F1	consolidated				
50		Porites columnar is						
60		CCA crust.						
70		CCA mixed with Rhizoliths (Dark grey colour)						
80		CCA + FCA crust, Monothalamus Vermetids. Bored	F4	Bst				thick algal crust
90		Cyphostoma? (Bored)		Algal				Some cavities (Furk) filled by internal sediment
100		Cyphostoma piece						
110		Heavily Bored FCA Rhizoliths	F11	Rhizo Bst				Frustrated Rhizoliths embedded in soft bioclastic sediments
120		Bioclastic sediment (Bivalves, gastropods, coral, algal debris, L&F...)	F5	consolidated Bioclastic				Bioclastic Rst (Gsk?)
130								
140								
150								

GISH
RENE



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	19 R	2	40.27 m	41.56 m
Describer(s): YM-DP-PK						Date: 16/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0			LS	cons. Bioh.				Bioclastic Gsr
10								
20		Hyphostrea?						Altered FI facies with very altered and Banded corals and thick CCA.
30		thick CCA crust, altered.		as				
40		Bioclastic Gsr	FI	consolid				
50								
60		Very altered banded coral (Pocillopora??) Some Bioclastic infill in Furk cavities						
70		Pocillopora Branching (15x)						
80								
90		Bioclastic Rst	LS	cons. Bioh.				Bioclastic Gsr
100		Bioclastic Gsr encrusted by CCA						
110		Pocillopora Branch, encrusted by CCA.						Algal Rst
120		CCA + FCA crust (Banded) Hemitrypa + Vermetids	LS	Algal Rst				
130		Bioclastic Gsr						
140		CCA						
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	20 R	1	41.53 m	42.56 m
Describer(s): <i>Hamon / Potts / Klanna</i>						Date: <i>16-2-2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Rhodolite.						Algal boundstone with
BRAY		Porites cores (Rhodolite)	F4	Algal boundstone				dominantly Rhodolite
10								with coral core
Potts comp Potts Salt sed		Cyphastrea Soft sediments + gastropod + worm tubes						Algal Boundstone -
20		CCA + vermetids	F4	Algal Boundstone				predominantly CCA
30								with some coral clasts
40		Submassive coral - Porites	F4					
DAT		CCA clasts		Consolidated Crst/ld				Predominantly
50		Porites branch						Consolidated granulation
60		Consolidated granulation						with CCA + coral clasts.
70		Porites branching with CCA cores	F-5	Consolidated				
DAT		Consolidated gran.						
80								
90		Porites - Submassive + CCA	F-1	Consolidated Boundstone				Coralgal Boundstone
DAT								with submassive Porites
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	M104	A	21 R	1	43 m	43.39 m

Describer(s):	Haman / Potts / Khanna	Date:	16-2-2024
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cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Submarine Porites + CCA		Vertical Banding				Coral gal boundaries with most by submarine Porites.
10		Porites clasts						
20		Submarine Porites + CCA	F-1					
30		Porites clasts gastropod						
40		Submarine Porites						
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

DAT

DAT



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

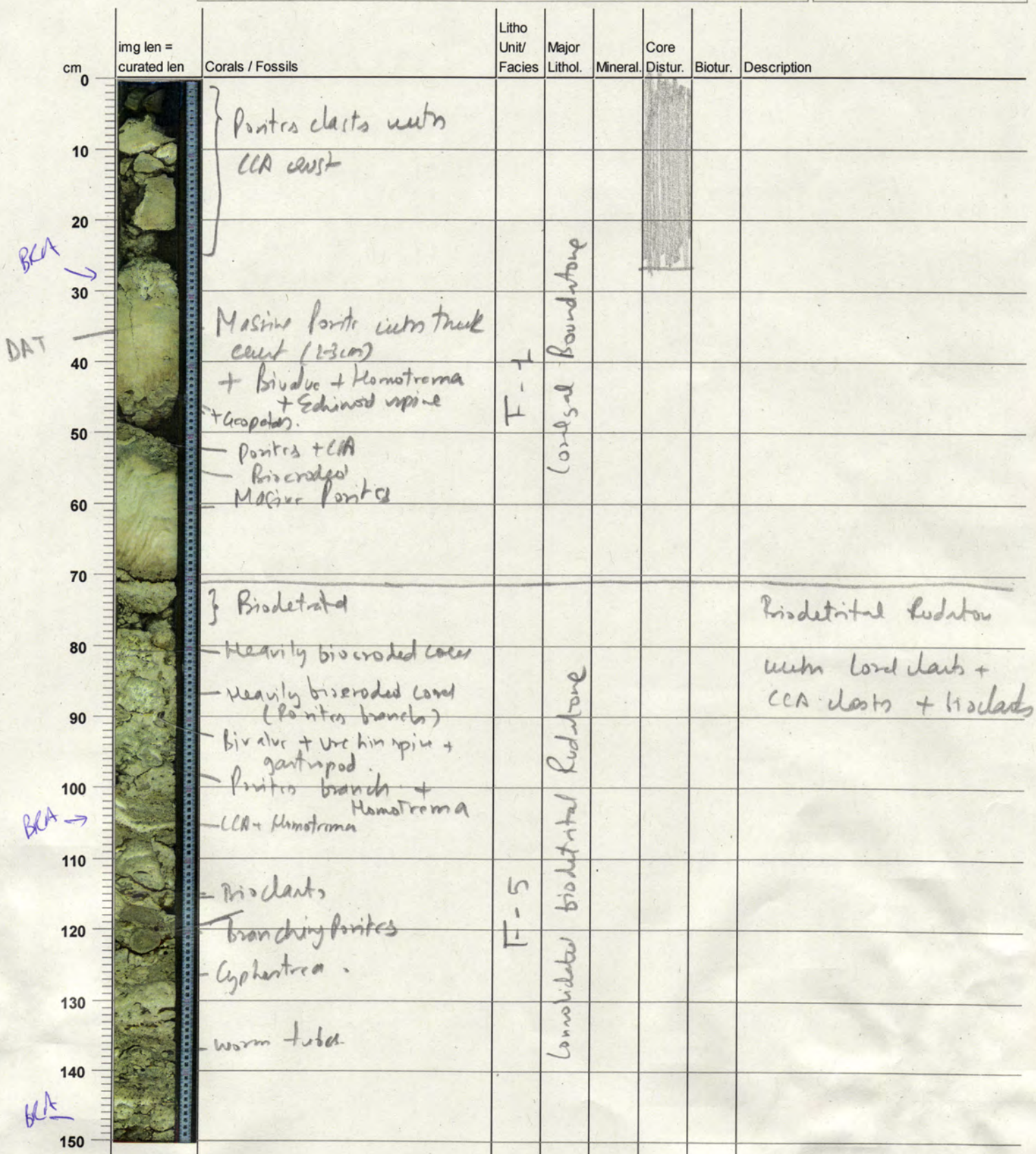
Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	22 R	1	43.64 m	45.14 m

Describer(s):

Hamon / Potts / Khanna

Date:

16-2-2024





Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M104	A	22 R	2	45.14 m	46.15 m

Describer(s): *Hamon | Potts | Khanna* Date: *16-2-2024*

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								Consolidated bioclastic
10		Bioclasts + FCA + shinoid spine + grainy matrix						rudstone with abundant
20		Porites clast cyphastera						bioclasts + coral + CCA clasts
30								
40		Barnacles	F-5	Bioclastic				
50								
60								
70		cyphastera		Consolidated				
80		Rhodolith						
90		CCA	F-4	Also Bioclastic				laminated CCA.
100								
110								
120								
130								
140								
150								