



ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	1 R	1	34.36 m	35.86 m

Describer(s): Gischler, Humblet, Braga

Date: 9 Feb. 2024

cm	image length = curated length	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur..	Biotur.	Description
0								Corals mostly Porites with few Pocillopora; some corals bored
10		Pocillopora IS? HIGHLY BIOERODED						
20		PORITES (EN) IS						
30		PORITES (BM) IS						CCA-crust with vesmetids, Homotrema
40		Pocillopora IS?						
50		PORITES (COL? BR?) IS						
60		PORITES (BM) IS?						microbialite massive (at the base = dendritic)
70		PORITES (LM) IS HIGHLY BIOERODED (CENTOBIA)						
80		AGALCIDAE? (EN) IS						
90		PORITES (BL?) IS						laminated
100		Pocillopora IS?						
110		MEEUWIDAE? (EN) IS						[canals not entirely filled up by microbialite]
120		PORITES (LM?) * HIGHLY BIOERODED						
130		HIGHLY BIOERODED						
140		PORITES (LM-SM) IS HIGHLY BIOERODED						
150		Pocillopora IS?						
160		canal fill with sepiulids						
170		PORITES (LM?) *						
180								
190		PORITES (BM) IS? HIGHLY BIOERODED						
200		PORITES (COL? BR?) IS						

* → COULD BE BRANCHES? → CHECK CT SCAN IMAGE



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	1 R	2	35.86 m	36.99 m

Describer(s):

Grisdale, Humblet, Braga

Date:

9 Feb. 2024

cm	image length = curated length	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		PORITES (BR? COL?) IS						Coral predominantly
10		PORITES (BR? COL?) IS						Columnar Porites
20		PORITES (BR? COL?) IS BIOERODED						
30		PORITES (BR? COL?) IS						CCA with Homotrema and vermetids
40		Pocillopora IS HIGHLY BIOERODED ENTOBIA						
50		PORITES (COL)* IS						microbialite
60		Pocillopora IS						massive, laminated; very few dendritic portions
70		PORITES (COL)* IS SURFACE BIOERODED/ENTOBIA						Some internal sediment with mollusk shells, echinoid spines, CCA
80								
90		PORITES (BR? COL?) IS						rare incrustation of microbialite surface with aspidioids
100		PORITES (BR? COL?) IS						
110		PORITES (BF) ISX? HIGHLY BIOERODED/ENTOBIA						
120								
130		* PROBABLY P. COMPRESSA						
140								
150								

BRAG

DAT

F2
Coralgal - microbialite boundstone



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	2 R	1	37.07 m	37.7 m

Describer(s):

Giscales, Humblet, Braga

Date:

9 Feb-2024

image length = curated length		Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
cm	0	PORITES (COL?) IS		F2 coralgal - microbialite bst.				coral almost entirely Porites (columnar)
DAT	10	PORITES (BM) IS						
		PORITES (COL) IS HIGHLY BIOERODED ENTOMBIA						
	20	PORITES (BM) IS						
	30	PORITES (COL) IS						CCA - crust with Homotrema and few vermetids
	30	PORITES (COL) IS						
BRAG	40	PORITES (COL) IS HIGHLY BIOERODED ENTOMBIA						
	50			coralgal - microbialite				microbialite massive, laminated
	60	PORITES (BM?) WITH MASSIVE BASE BIOERODED						
	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	M97	B	3 R	1	37.87 m	38.47 m

Describer(s): Humblet, Braga, Grischler

Date: 9 Feb 2024

cm	image length = curated length	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								corals
10		Porites (col) IS BIOERODED/ENTOBIA		boundstone				(Porites) some bored
20		Porites (BR? COL?) IS						
30		PORITES IS? HIGHLY BIOERODED ENTOBIA						CCA crusts with Homotrema, vermetids
40		Porites (LM?) IS BIOERODED ENTOBIA						
50		Porites (BM) IS?						microbialite massive, laminated
60		Porites IS ALTERED						internal sediment with shells, echinoid spine, foram
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	M97	B	4 R	1	38.5 m	40 m

Describer(s):

Gischer, Humblet, Braga

Date:

9 feb. 2024

cm	image length = curated length	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0		PORITES (BR? COL?) IS						Coral (Porites)
10		POCILOPORA IS HIGHLY BIOERODED/ENTOBIA						
20		CCA in microbialite						
20		PORITES (BR? COL?) IS						
30		PORITES (M) IS? BORING						
40		PORITES (BR? COL?) IS						CCA - crust with Homotrema and vesmetids
50		PORITES (BR? COL?) IS						
50		PORITES (BM) IS						
60		PORITES (BR? COL?) IS HIGHLY BIOERODED/ENTOBIA						
60		PORITES (BM) IS						microbialite
70		POCILOPORA IS HIGHLY BIOERODED/ENTOBIA	F2					massive, laminated, towards cavities
80		PORITES (BR?) IS						transition to dendritic
90		PORITES (BM) IS HIGHLY BIOERODED/ENTOBIA						internal sediment = shells, edroid spines
100		PORITES (BM/BR!) IS BIOERODED						
110		SERPULID						
120		PORITES IS? BIOERODED						
130		CORAL IS? BIOERODED						
140								
150								



Hawaiian Drowned Reefs

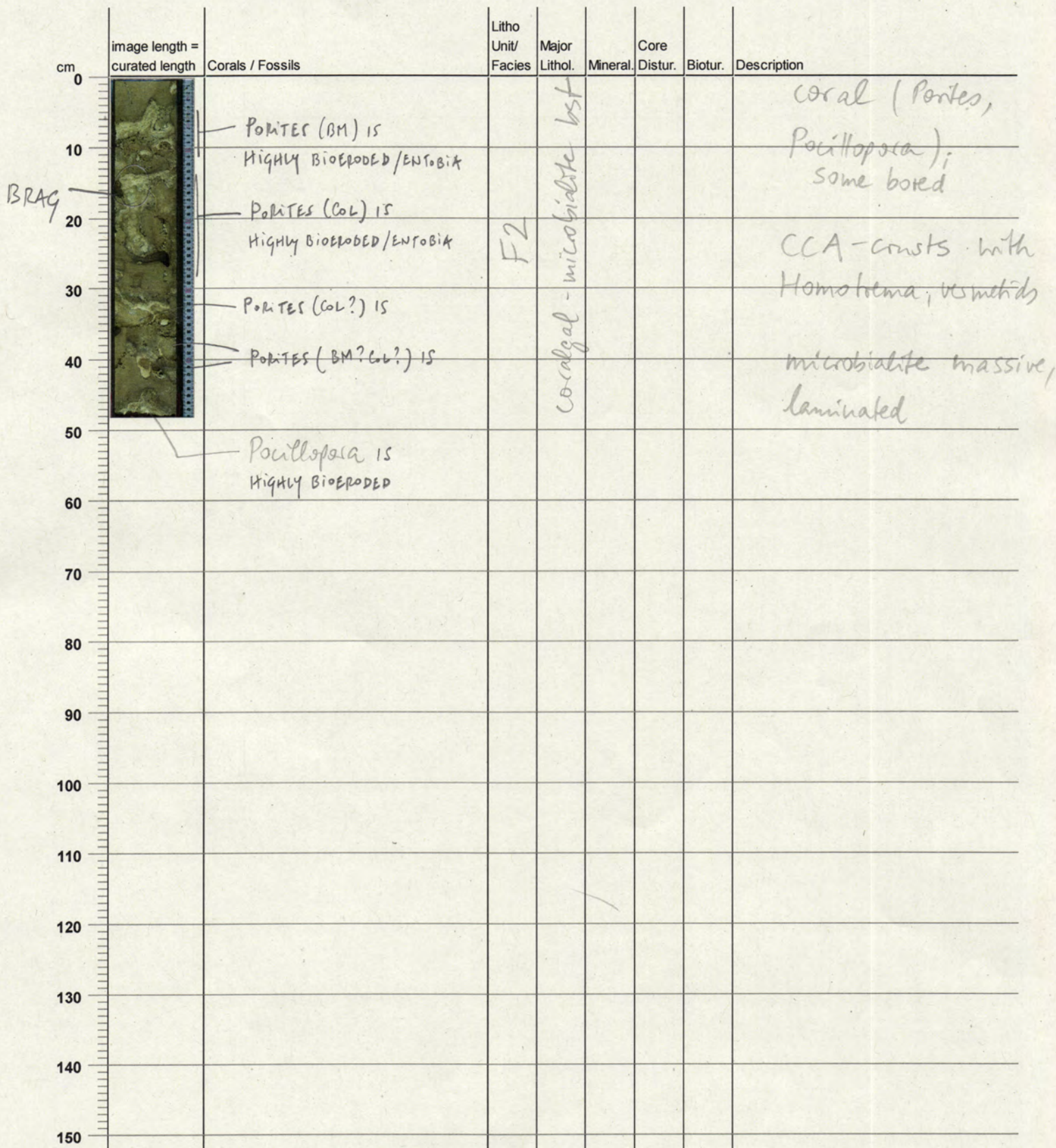
ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	4 R	2	40 m	40.48 m

Describer(s):

Gisunter, Humblet, Braga

Date: 9 Feb. 2024





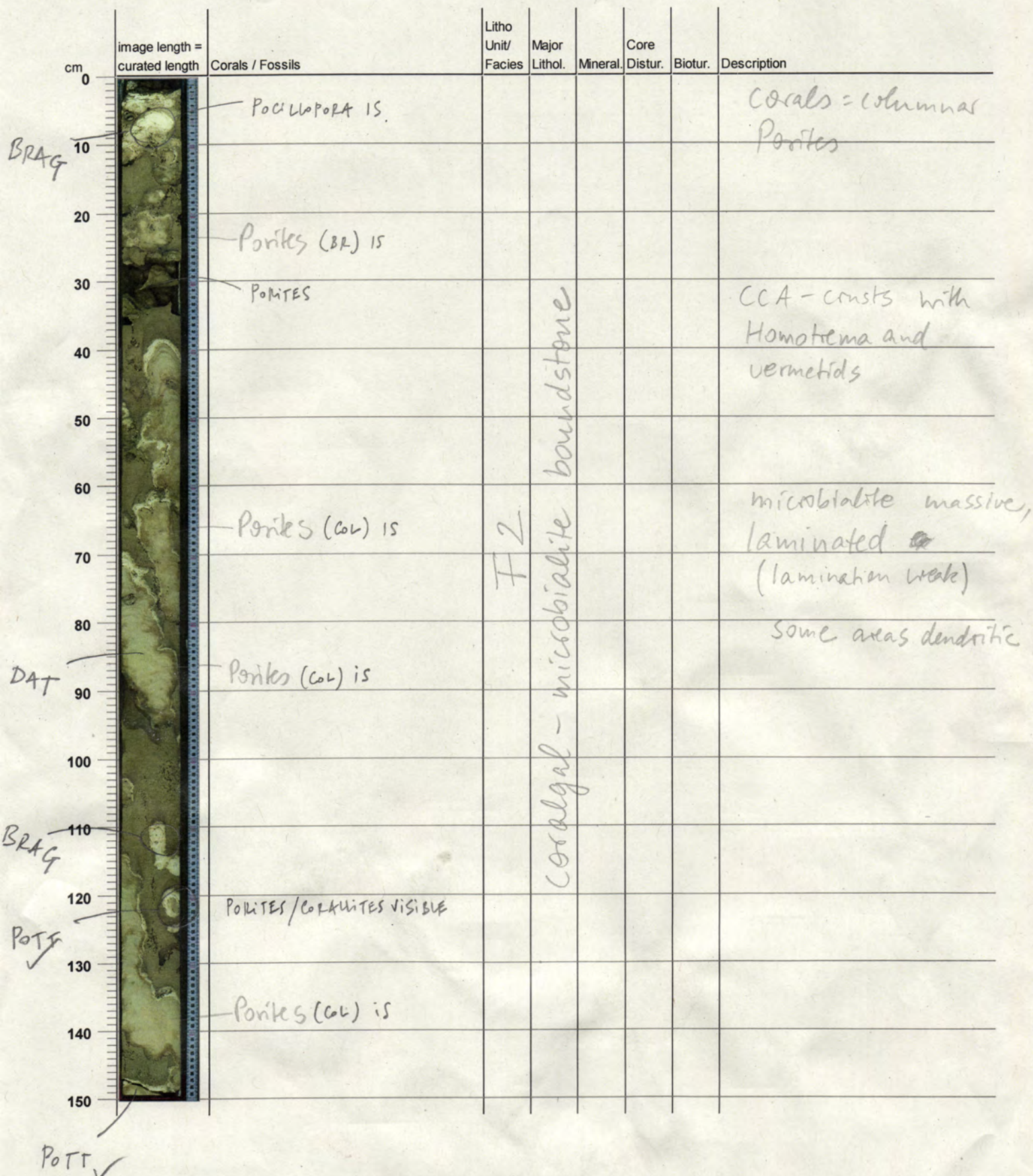
Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	5 R	1	40.39 m	41.89 m

Describer(s): Grischke, Humblet, Braga

Date: 9 Feb. 2024





Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	5 R	2	41.89 m	43.11 m

Describer(s):

Güldenker, Humblet, Braga

Date: 9 Feb. 2024.

image length = curated length		Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description	
cm 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150		Porites (Col) IS						Corals = Columnar Porites	
		Porites (Col) IS							
		Porites (BR?) IS HIGHLY BIOERODED/ENTOBIA							CCA-corals with Homothema and vermetids
		Porites (Col) IS							
		Porites (Col) IS HIGHLY BIOERODED/ENTOBIA							
		Porites (Col) IS							
		Porites (Col) IS HIGHLY BIOERODED/ENTOBIA							
		Porites (Col) IS							
		Porites (Col) IS							
		Porites (Col) IS							
		Porites (Col) IS							
		Porites (Col) IS							
		Porites (Col) IS							
		Porites (Col) IS							
		Porites (Col) IS							



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

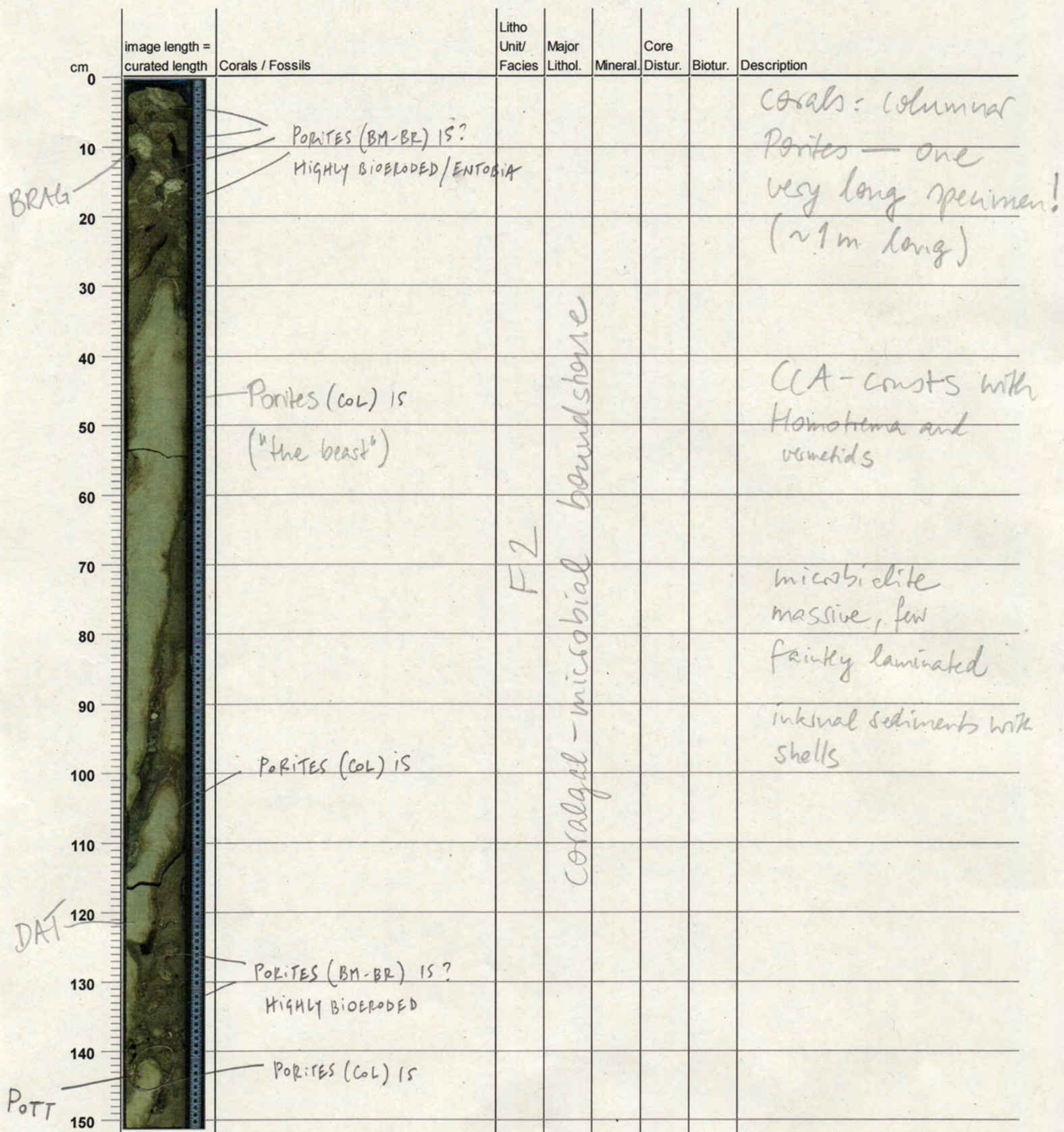
Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	6 R	1	43.12 m	44.63 m

Describer(s):

Gisela, Humblet, Braga

Date:

9 Feb. 2024





Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	6 R	2	44.63 m	45.93 m

Describer(s): *Gischler, Humblet, Braga*Date: *9 Feb. 2024*

cm	image length = curated length	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		— PORITES (BL) IS						corals =
10		— PORITES (BR?) IS						columnar Porites
DAT		— PORITES (BM-BR?) IS						
20		— PORITES (BR? COL?) IS? HIGHLY BIOERODED/ENTOMBIA						CCA - crust =
30								very thick (up to
40								40 cm!) with
BRAG								Vermehids and Monohema
50								
60								
BRAG								
70		— PORITES (BL) IS HIGHLY BIOERODED						microbialite =
80								massive, laminated
90								
100								
110								
120								
130		— PORITES (BL) IS? HIGHLY BIOERODED						
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	7 R	1	45.88 m	47.38 m

Describer(s): YH-DP-PR

Date: 03-02-2024

cm	image length = curated length	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0	POTT (sed)							uncemented, lot of (Fall in?) gastropods, echinoids, corals ...
10	DAT	Porites Branching						
20		Porites Branching						
30		Porites Heavily Bored (Coultonia). Robust Branching						
40	BRAG	Pectinid Porites						clusters of coral branches encrusted by coralline algae, Hemitrypa. Heavy Bioturbation embedded in a micritic columnar to dendritic (laminae internal foliac)
50		Porites Branch						
60				Ag1				
70		CCA crusts (encrusting coral?). Heavy Bioturbation						micritic rich interval
80		Serpulids	F2	Micro Crinoids				
90	DAT	Porites Branches						
100	BRAG	Porites Branches		Conchoidal				thick CCA crust on coral Branch.
110								columnar (laminae) to dendritic micritic
120	DAT	Porites Branch (robust)						5-20 mm thick crust
130								Dendritic micritic
140		Porites Branches, Heavily Bored.						thick crust (15 mm thick)
150								columnar - laminae micritic



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	7 R	2	47.38 m	48.16 m

Describer(s): YH- DP- PK

Date: 03/02/2024

cm	image length = curated length	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0								
DAT 10		Portia Branches, Heavily Bored. Some gaspated infll.						Dendritic microlite CCA encr.
BRAG 20		Portia Branches Gaspated		Bst				columns to dendritic microlite.
30								
40		Portia Branches, Heavy Bioturbation	F3	microlite				columns to dendritic microlite
50								
DAT 60		Portia Branch						coral discoloration at the contact with microlite
70								thick columnar-laminar microlite going up to dendrite.
80		Portia Branch						
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	M97	B	8 R	1	48.64 m	50.15 m

Describer(s): YH-DP-PK

Date: 03/02/2024

cm	image length = curated length	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		Porites Branches						coralgal micralite Bst with robust coral branches interrupted by thin algal crusts (1-2 mm). Columnar laminar micralite (from 0 to 20 cm).
20		Some Algal crust fragments						From 20 cm: micralite are dendritic dominantly.
30		Porites Branches						
40		Porites Branches						
50			F2	coralgal micralite Bst				
60		Echinoid, gastropod, pecten in the cavity.						
70		Porites + CCA						
80		Porites Branch						
90		Porites Branch + CCA (Bored)						
100		Bolito Spine in cavity.						
110		thick algal crust occasional vermetid and Homothra	F4	Algal Bst				Algal crust with various internal fabric.
120		Columnar Porites						coralgal micralite Bst thick CCA crust
130		Boring -	F2	micralite Bst				columnar to dendritic micralite
140		Porites Branches Fragment thin algal crust.						
150								



ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	8 R	2	50.15 m	51.27 m

Descriptor(s): YH-DP-PK

Date: 09-02-2014

cm	image length = curated length	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		Porites Branch (Bicerosia)						coralgal micritic Bsk with coral Branches and thick (4-10 mm) algal crusts
20		Porites Laminar						
DAT 20		Porites Branch						micritic is columnar to dendritic
30		Porites Branches with CCT crusts	F2	coralgal micritic				
40		Laminar Porites						
50		Porites Branch						Discoloration
DAT 60								
70		Vermetidae + Hamulinina	F4	Algal Bsk				thick algal crust, almost laminar with abundant Vermetidae and tubes (mural?) Biocorall.
80								
90								
DAT 100		Laminar Porites						coralgal micritic Bsk with coral Branches and 5-10 mm thick algal crust
100		Branching Porites Heavy Biocerosia	F2	coralgal micritic Bsk				
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	M97	B	9 R	1	51.39 m	52.88 m

Describer(s): YN - DP - PK

Date:

cm	image length = curated length	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								Coralline Microbialite BSR with dominantly branching porites, thick algal crusts and various forms of Microbialite
10		Porites Branch						
20		Algal crust with occasional Vermetids and Homotrema. Some tubes (Annelids?)						
30		Porites Branch						columns to dendritic Microbialite
40		In situ algal crust						
50		Thin laminar Porites (Bioherm)						Dendritic Microbialite filling a cavity, enclosing various Bioherms.
60		Some worm tubes adjacent to gorges, forams						
70		Porites Branch thin algal crust. Bioherm.						
80				BSR				
90		Porites Branch High Bioerosion.	F2	Microbialite				columns to dendritic Microbialite
100		Porites Branch						Dendritic Microbialite
110				coralline Microbialite				
120								
130		thick in situ algal crust Vermetids + Homotrema.						
140		Porites Branch						columns laminar Microbialite
150								



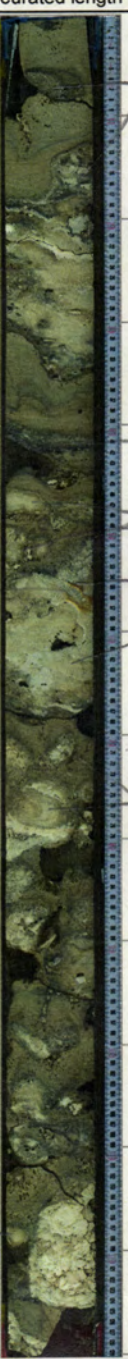
Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	9 R	2	52.88 m	54.18 m

Describer(s): YH-DP-PK

Date: 03/02/2024

cm	image length = curated length	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Porites Branch? Heavy Bioseriation						Dominantly columnar laminar microlite embedding coral branches
10								
20								
DAT 25		Massive Porites, heavy Bioseriation, algal crusts with Vermatids						Massive coral.
30								
40		coral remnant (heavily Bored)						Dominantly columnar laminar microlite embedding coral Branches
50		Porites Branch						
DAT 55		Pocillopora encrusting massive porites						Massive coral Some cavities filled by white internal sediment.
60								
70								
80		Porites Branch						columnar laminar microlite embedding coral branches heavily Bioseriated.
90		Remains of corals, Bioseriated and infilled.						
100								
110								
DAT 115		occasional Vermatids						Algal crust
120								
130								
140								
150								



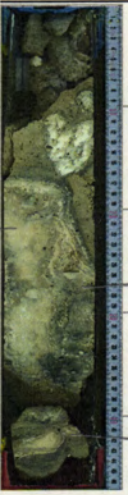
Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	10 R	1	54.14 m	54.61 m

Describer(s): YH- DP- PK

Date: 03/02/2024

image length = curated length		Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
cm	0							columnar Microbialite
	10							
	20							massive coral colony. Edge is heavily indurated and encrusted by cm-scale algal crusts.
	30							
	40							coral branch embedded in laminar Microbialite
	50							
	60							
	70							
	80							
	90							
	100							
	110							
	120							
	130							
	140							
	150							



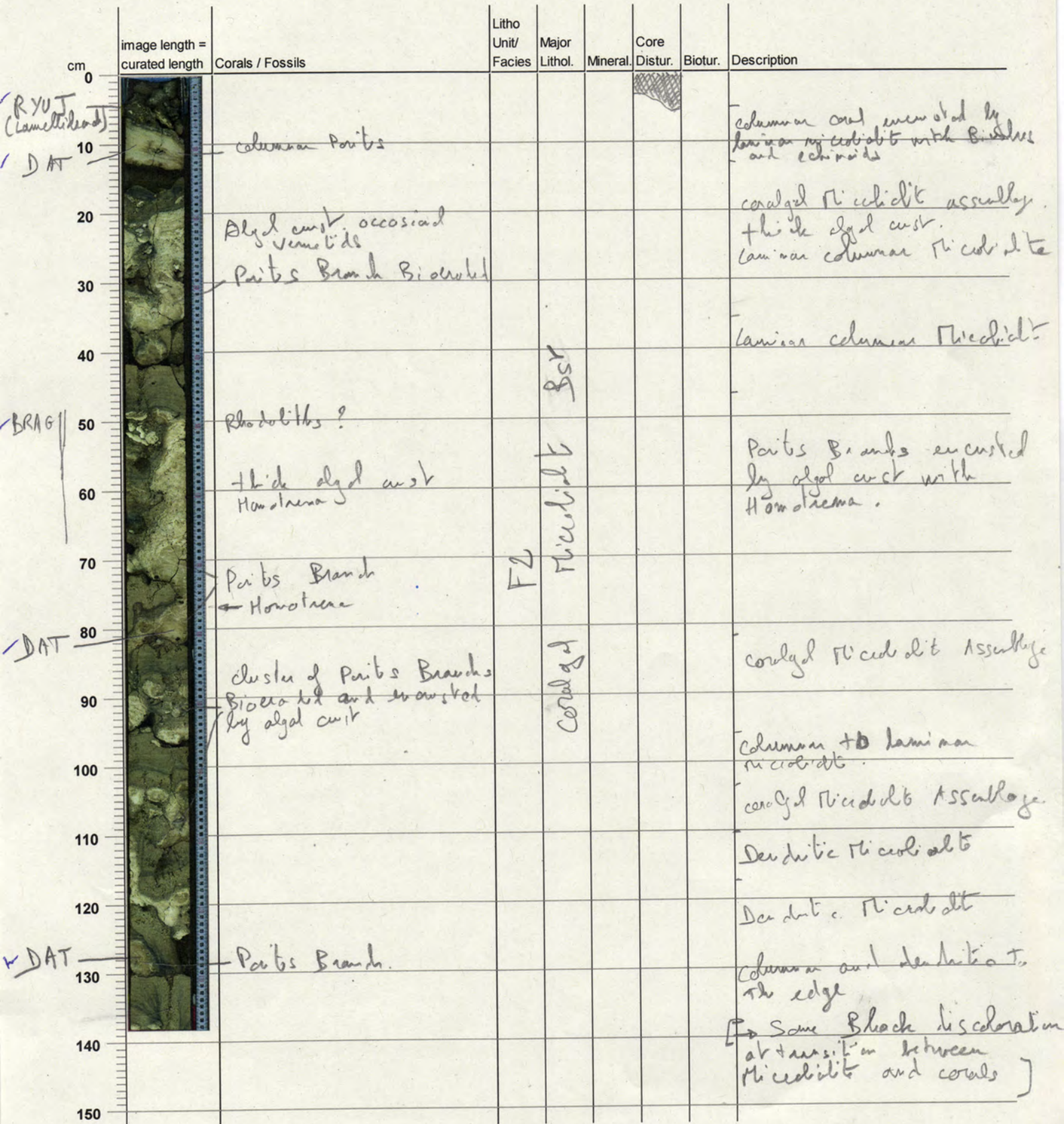
Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	11 R	1	54.82 m	56.2 m

Describer(s): YH-DP-PK

Date: 03/02/2024





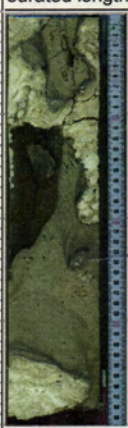
Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	11 R	2	56.2 m	56.6 m

Describer(s): YH- DP- PK

Date: 03/02/2024

cm	image length = curated length	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		CCA crusts with Vermetids		BS				thick CCA crusts forming cavities filled. Totally or partially by a first laminar and second dendritic micritic
10								
20		Remains of Porites Branch heavily Bioherm	A2	Coralline micritic				
30								
40		CCA crust, occasional Vermetids						Massive CCA crust
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	M97	B	12 R	1	56.57 m	57.96 m

Describer(s): YH-DP-PK

Date: 03/02/2024

cm	image length = curated length	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		Massive CCA with Hemotema.						columnar to dendritic Microbialite
20		CCA with Hemotema						
30								Dendritic at the top
40		cluster of Porites Branches thin CCA crusts.						columnar lumina Microbialite
50		Remain of Porites Branch		ax				
60		CCA crust growing vertically.						
70		CCA crust with an horizontal growth axis Hemotema Gecastat Vermatids	ax	Microbialite				CCA
80								
90		cluster of Porites Branches thinly encrusted by CCA. Some gastropods encrusted as well.		coral				
100		Massive Porites top is Bioeroded.						
110								Dendritic Microbialite
120		Branches of Porites, Bioeroded, thinly encrusted by CCA						
130		CCA crust + Vermatids						
140								
150								



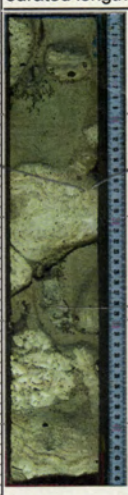
Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M97	B	12 R	2	57.96 m	58.42 m

Describer(s): YH-DP-PR

Date: 09/02/2024

cm	image length = curated length	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		coral remain? Heavily altered		1				columnar (laminar) microlite with dendritic form toward the top.
10		Part's Branch						
20		CCA occasional vermetids						
30		gastropods						
40		CCA						
50		tightly laminated CCA Hemitelia and vermetids (occasional)						
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								