



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	1 R	1	19.9 m	20.35 m

Describer(s):	Gisdies, Humblet, Braga	Date:	14 Feb. 2024
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cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		CORAL (FOL) LOOSE PIECE ISX (UNIFACIAL)						Cm-sized rhodoliths
20		RHODOLITH* COMPOSED OF BRYOZOANS, ENCRUSTING FORAMS AND CCA	F11	mdstone				one coral uncounted (Cyphastrea?)
30		CCA + BRYOZOANS		rhodolith				
40		coral CYPHASTREA? ISX (LOOSE PIECE) Porites coral + microbacteria						
50		* HIGHLY BIOERODED						
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	M102	C	2 R	1	21.58 m	22.17 m

Describer(s): *Grisdner, Humblet, Braga*Date: *14 Feb. 2024*

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		BLACKISH STAINING						coral and coral
DAT		Porites, bored at top						fragments (Porites)
20		PORITES (M) IS						
DAT			F1					thin CCA-crusts
30								
40		TRYPANITES BORING						
50		fragments of Porites (MAYBE FROM ABOVE COLONY?)						
BRAG								
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	M102	C	3 R	1	22.51 m	23.25 m
Describer(s): <i>Gisshels, Humblet, Braga</i>						Date: <i>14 Feb. 2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		Porites fragments						
20		bird's shell fragments!	F1	coralgal boundstone				Porites coral with thin CCA-coast and thin ^{structureless} microbialite crust (coral appears "dirty" from fine sediment; coral bored)
20	DAT	CYPHASTREA (ISX) PC 2 mm						
30		MILLEPORA (ISX)						
40	WEBS	coral, CCA, shells, echinoid sp. frag	F5					
40	GISC	Pocillopora (ISX)						
50		PORITES (ISX)		DET- consolidated				
60	DAT	PORITES (LM) IS?						
70	BRAG	PORITES FRAGMENTS ISN	F1	coralgal boundstone				same as above (0-25 cm)
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	M102	C	4 R	1	23.65 m	24.47 m
Describer(s): <i>Güschker, Hummel, Braga</i>						Date: <i>14 Feb. 2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		PORITES (M) ISX?						- large Porites (lateral) pieces; coral "dirty" with fine dark sediment
20								
30								- some CCA corals
40		PORITES (SM) IS						
50		unconsolidated sediment						
60		PORITES (M) IS						
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	M102	C	5 R	1	24.62 m	24.81 m

Describer(s): Gisdicks, Humblet, Braga

Date: 14 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		LEPTASTREA (EN) ϕ 2-4.5 mm IS	H1	coral benidstone				Two coral pieces
20		PORITES (M) IS + TRYPANITES BORING						Thick CCA crust with large vermetids(?)
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	M102	C	6 R	1	25.18 m	25.78 m
Describer(s): <i>Criscakes, Humblet, Braga</i>						Date: <i>14 Feb. 2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		<i>PORITES corals IS (M/COL?)</i>						<i>corals appear "dirty" due to dark, fine sediment incorporation</i>
20		<i>SMALL TRYPA NITES BORINGS</i>						
30		<i>* small coral: thamnasterioid piece</i>						<i>few CCA - crusts with vesiculated</i>
40		<i>LEPTOSELIS (FOL) ISN</i>						
50		<i>PORITES (SM/M) IS?</i>						
60		<i>LARGE BORING</i>						
70		<i>NB: MARGIN OF CORALS IS BORED</i>						
80		<i>* SOLITARY CORAL IN WORKING HALF</i>						
90								
100								
110								
120								
130								
140								
150								

DAT
POTT
BRAGA
DAT
POTT
CALL
TRAC

F1
coralgal brecciated



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	7 R	1	26.06 m	26.83 m

Describer(s):	Gütschke, Humblet, Braga	Date:	14 Feb. 2024
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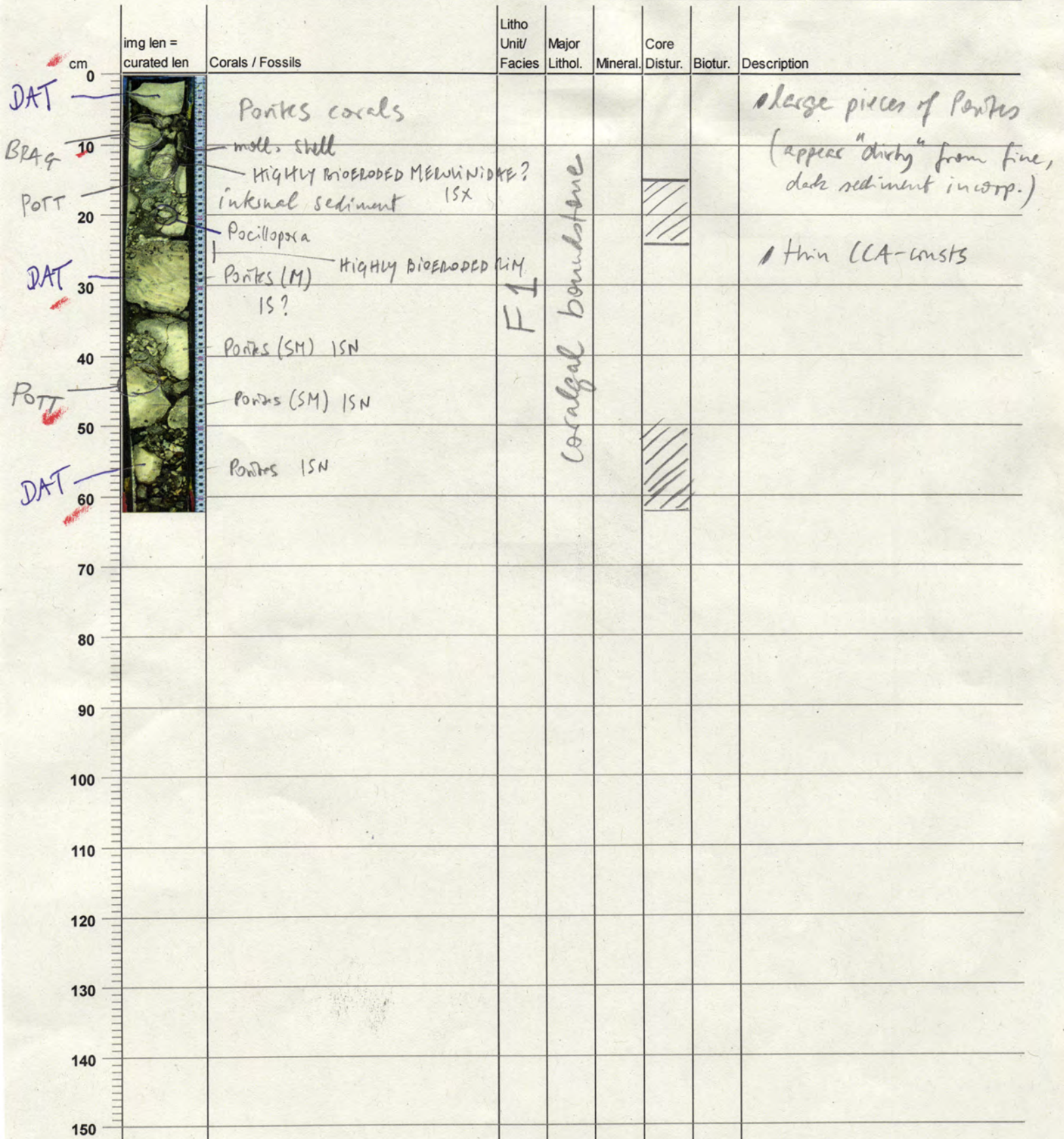
cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		Porites (M) IS? mollusk shells						Corals and coral fragments (Porites)
20		TRYPANITES BORING						
30		LEPTASTREA? (EN) $\phi \sim 3$ mm	IS					thin CCA crusts
40		MONTIPORA (EN) IS	F1					
50		Porites (M) IS						(coral appears "dirty" from fine dark sediment incorporation)
60		Highly BIOERODED PORITES ISX						
70		rhodolith - Porites fragments						
80		PORITES FRAGMENTS PROBABLY ISX - few shell fragments - CCA fragments						
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	M102	C	8 R	1	27.59 m	28.21 m

Describer(s): *Gizurko, Humblet, Braga*Date: *14 Feb. 2024*



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	9 R	1	28.74 m	29.54 m

Describer(s):	Date:
Glischler, Humblet, Braga	14 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0			F1					fragments of coral and other bioclasts
10		PORITES CLASTS ARE DOMINANT ISX						coral-bioclastic rudstone
20			F5					
30		PORITES ISX						
40		→ LEPTOSERIS CLASTS PRESENT ISX (COMMON)						
50		* MILIOPORA?, CYPHASTREA? PORITES ISX ISX						
60		PORITES → ISN						
70		Pavona (COL) ISN	F2					coral (Porites, Pavona) with CIA-crust and microbialite crusts (thrombolitic)
80								
90								
100								in all units: corals appear "dirty" due to dark sediment incorporation
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	M102	C	10 R	1	29.58 m	30.16 m
Describer(s): <i>Giäches, Humblet, Braga</i>						Date: <i>14 Feb. 2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		<i>Parona ISN</i>						<i>coral, with</i>
20		<i>Porites (PL/POL) ISX</i>						<i>CCA - const</i>
30		<i>Parona (Col) IS dc ~ 1.5-2 mm</i>						<i>(with vermetids)</i>
40		<i>unconsol. sed.</i>						
50		<i>unconsol. sed.</i>						
60		<i>Porites } ISN</i>						
70		<i>Porites }</i>						
80								
90								
100								
110								
120								
130								
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

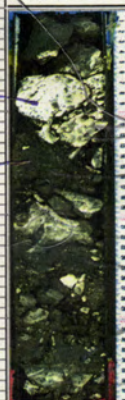
Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	11 R	1	30.24 m	30.62 m

Describer(s): *Gisshler, Humblet, Braga*Date: *14 Feb. 2024*

DAT + POTT

(CORAL)

cm

img len =
curated len

Corals / Fossils

Litho
Unit/
FaciesMajor
Lithol.

Mineral

Core
Distur.

Biotur.

Description

BRAG

YRENE

CYPHASTREA (EN) IS

unconsol. sed.

PORITES (EN) IS

unconsol. sed.

PORITES ISN

F2

coralgal-microbialite
bandstone

• fragments of coral,

• thin and thick CCA-
cnsts• microbialite cnsts,
thrombolitic (?)• unconsolidated sediment
with bioclasts

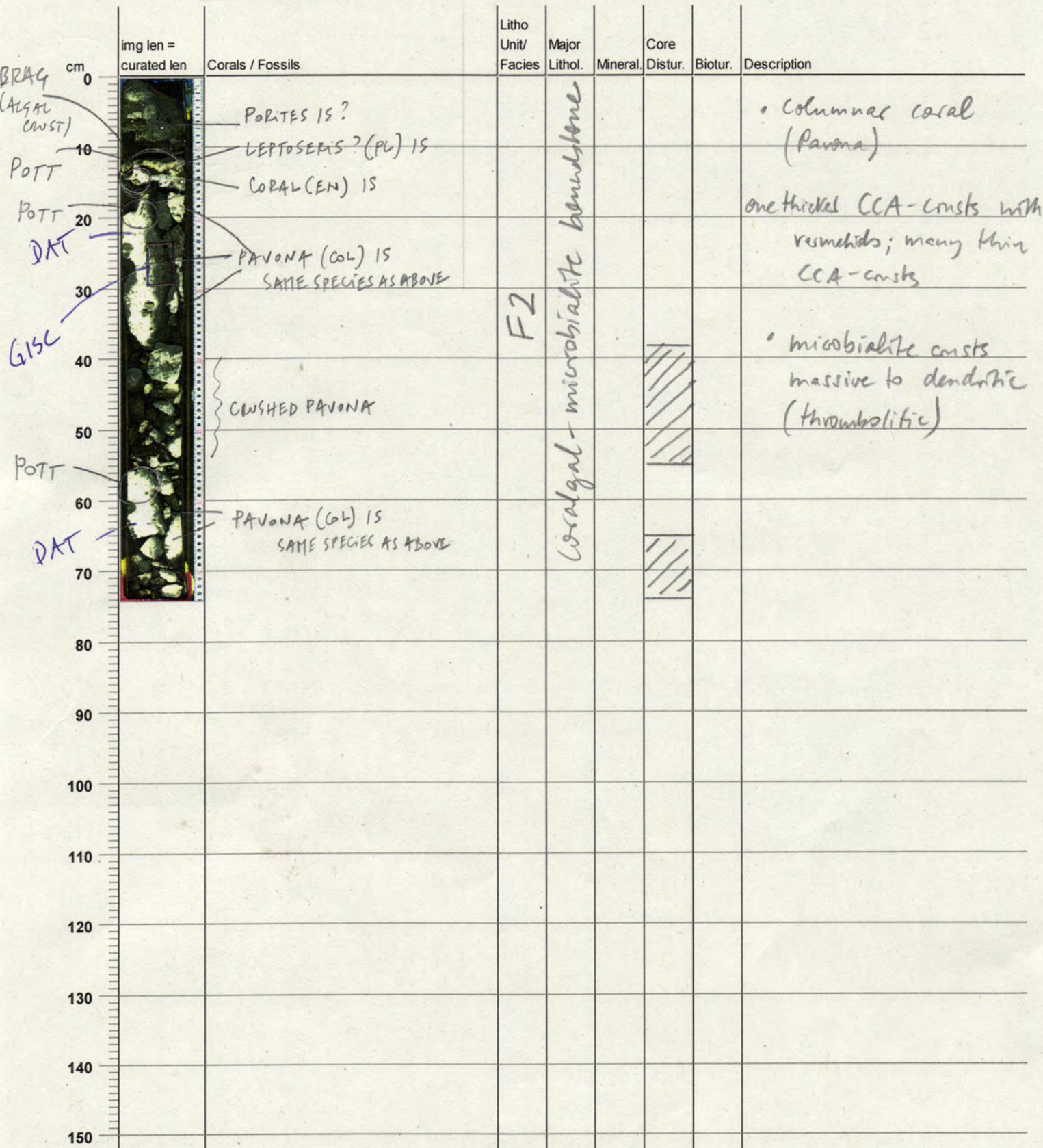


Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	12 R	1	30.92 m	31.66 m

Describer(s): *Gischer, Humblet, Braga*
 Date: *14 Feb. 2024*



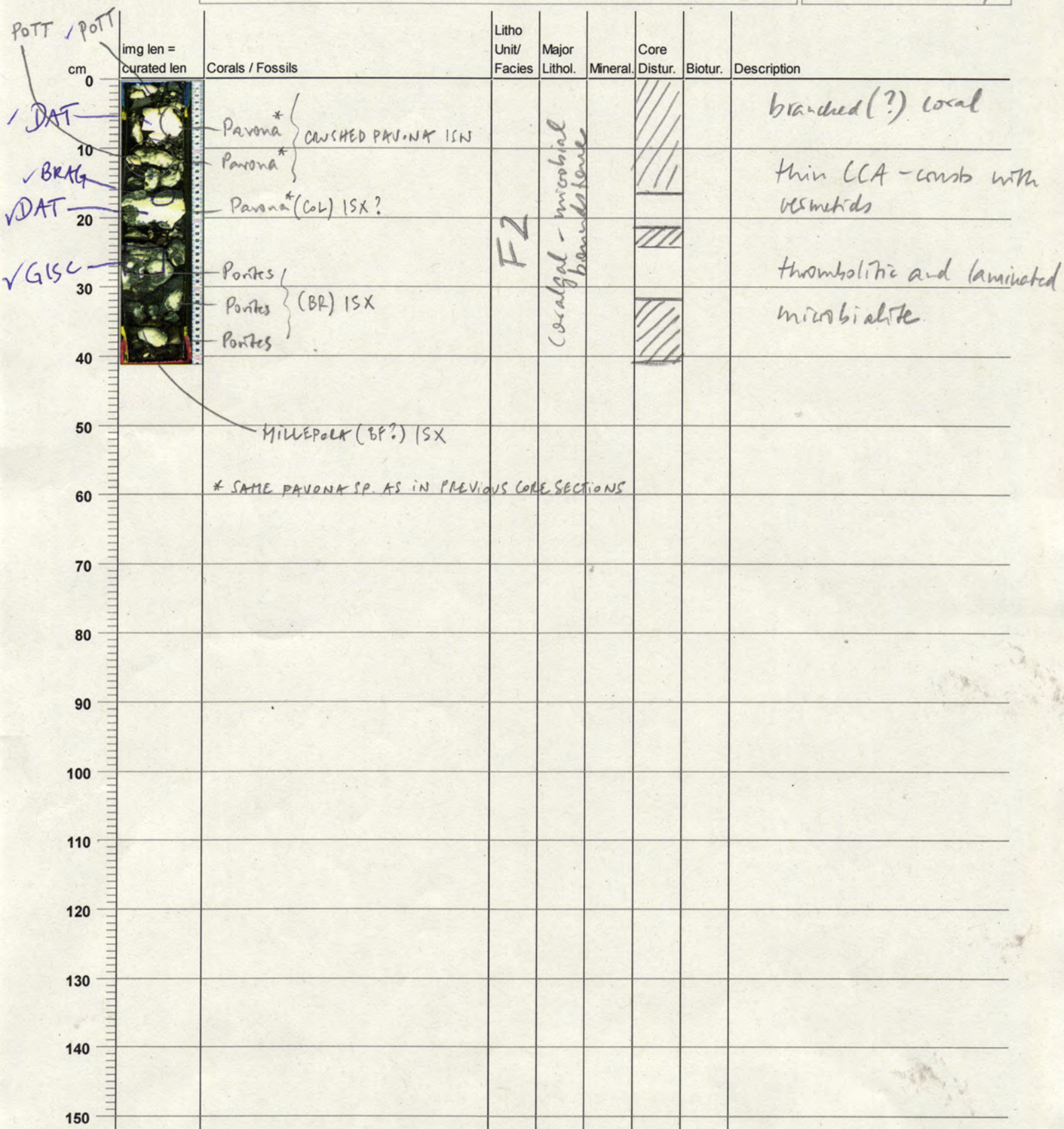


Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	13 R	1	31.99 m	32.4 m

Describer(s): <i>Giunker, Humblet, Braga</i>	Date: <i>14 Feb. 2024</i>
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Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	14 R	1	32.53 m	33.64 m
Describer(s):						Date:

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								• branched coral
10		PORITES (BM/BR)* ISX??						
20	POTT	many Porites corals (branched?)						• thin CCA-crusts with vermetids; one with Leptoseris
30	RENE							
40	DAT	PORITES (BASE OF BR COLONY?) ISX?? MARGIN IS ERODED						• massive microbialite crusts, mostly laminated; (few thromb.) often echinoid spines embedded in microbialite
50	POTT	PORITES (BR)* ISX??						
60	BRAG	LEPTOSERIS (EN) IS	F2					
70	POTT	PORITES (BASE OF BR COLONY?) ISX??						• unconsolidated dark sediment in numerous cavities
80								
90	GLSC	PORITES (BR)* ISX??						
100								
110	DAT	* CHECK CT SCAN IMAGES						
120								
130								
140								
150								

coralgal - microbialite bandstone



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	15 R	1	33.81 m	34.42 m
Describer(s): <i>Güschler, Humblet, Braga</i>						Date: <i>14 Feb. 2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		<i>Pontes (SM?) IS?</i>						• branched and laminar corals (<i>Pontes</i>); some stained dark due to sed. impregn.
20								
30		<i>Pontes (BR?) AT LEAST PART OF IT IS ISX</i>						• thin (LA)-corals
40		<i>Pontes (PL) IS</i>						
50		<i>Pontes</i> <i>Pontes (BR) IS?</i> <i>Pontes</i> <i>Pontes (PL) IS</i>	<i>F2</i>	<i>Microbialite</i> <i>coralgal</i>				• massive, sometimes dendritic microbialite (thrombolitic)
60								• unconsolidated, dark sediment
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	M102	C	16 R	1	34.64 m	35.25 m
Describer(s): Grischke, Humblet, Braga						Date: 14 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		Pavona (Col) ISN (crushed)		bst.				• branched coral (appears "dirty" - as above)
20		Pavona ISN						• thin CCA - crust
30		Porites (fol)						
40		Porites (BR?)						
50		volcanic clasts						
60		CYPHASTREA? (EN) IS						
70		Porites (at least part is ISX)						
80		CYPHASTREA? (EN) IS						
90		CYPHASTREA? (EN) IS						
100		CYPH. Po						
110		CYPH. Po						
120		CYPH. Po						
130		CYPH. Po						
140		CYPH. Po						
150		CYPH. Po						

✓ DAT

✓ POTT

✓ BRAG

✓ POTT

✓ DAT

✓ POTT

F2

coral - microbialite

• branched coral
(appears "dirty" - as above)

• thin CCA - crust

• microbialite
massive; thrombotic
(echinoid spines embedded
(volcanic clasts))

• det, unconsolidated
sediment in cavities

CCA (thicker on top)

CYPH.

Po



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	17 R	1	35.22 m	35.73 m
Describer(s): Gislén, Humblet, Braga						Date: 14 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
POTT								
DAT		PORITES (BM/BR) IS						• branched coral (stained dark from sed. - impregnation)
		ENCrustING FORAM						
20								
		VERMETIDS	F2	coral gal - microbialite boundary				• thin CCA - crust with vermetids
DAT								
BRAG		PORITES (BM/BR) IS						• microbialite massive (mostly thrombolitic)
DAT								
50								• unconsolidated, dark sediment within framework; contains many biolites
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								



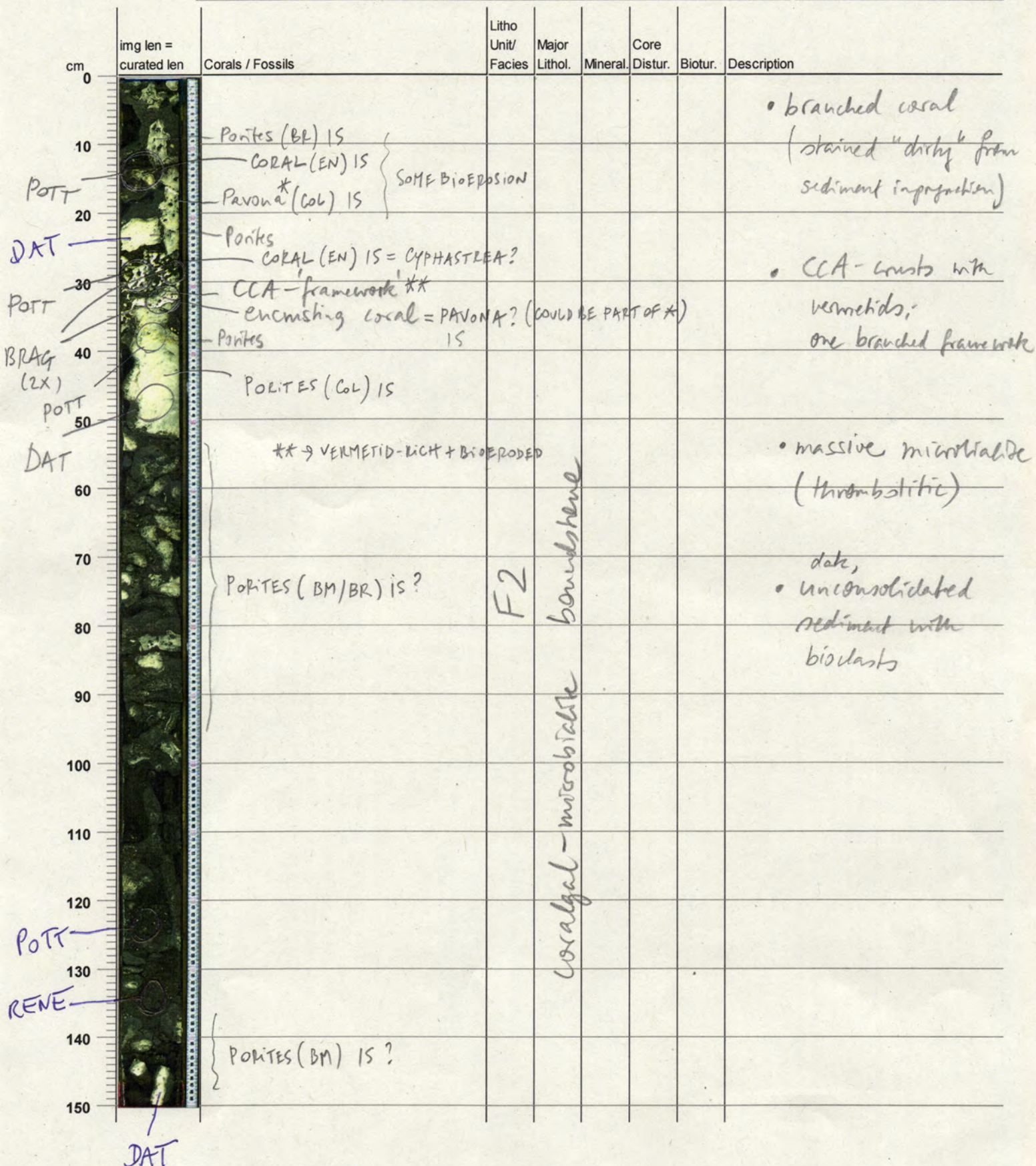
Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	17 R	2	35.73 m	37.23 m

Describer(s): *Grischer, Humbolt, Braga*

Date: *14 Feb. 2024*





Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	18 R	1	37.86 m	39.14 m

Describer(s):	Gischler, Humblet, Braga	Date:	14 Feb. 2024
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cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		PolITES FRAGMENTS / ISN						• Porites coral framework (stained "dirty")
10								
20								
30		solitary coral / DENDROPHYLLIDAE						• CLA - corals thin, with vomerids
40		PolITES (MB) IS						
50		HOMOTREMA IN CCA unconsol. sediment with bioclasts	F2					• micobialite massive, thrombolitic
60		HOMOTREMA IN CCA						
70		solitary coral / DENDROPHYLLIDAE						• dark, unconsolidated red-vent with bioclasts
80		unconsol. sed.						ABUNDANT ECHINOID SPINES GASTROPOD SHELLS CORALLINE ALGAE SOLITARY CORALS
90		PolITES (PL) IS						
100								
110		PolITES (M) IS						
120		unconsol. sed.						
130		PolITES (PL) IS						
140								
150								

✓ GISC

✓ POTT

✓ DAT

✓ POTT

✓ RENE

✓ POTT

✓ POTT

✓ POTT

✓ DAT

coralgal - micobialite boundstone



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	19 R	1	39.34 m	40.85 m
Describer(s): Gischler, Humblet, Braga						Date: 14 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		laminar coral is (possible Cyphaster) CCA Porites laminar is						• single coral (Porites)
10		shells, urchin spines, gastropods						
20								• thin CCA crust
30								
40								• massive microbiotic, thrombolitic
50								
60		Barings and cavities filled by Biogenic Sediments (urchin spines, Bivalves, gastropods...)	F2					• Some unconsolidated sediment → 'stain' part of the coral
70								
80								
90								
100								
110								
120		— giant Porites massive						
130								
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	19 R	2	40.85 m	41.23 m

Describer(s):

Grischer, Humblet, Braga

Date:

14 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								• coral
10		Porites flossive (IS)						• CCA - crust
20		Biogenic inconsolidated sed	F2	Coralgal-microb.				
30		Porites Br (IS) in micritic						• microbialite
35		Cyphastrea encrusting (IS)						laminated and thrombolitic
40		Porites Br. (IS)						
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	M102	C	20 R	1	41.39 m	42.38 m
Describer(s): YH-DP-PK						Date: 14/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								coralgal micolite Bst. Very thin CCA crust, dark Positive to thrombolic micolite
10								
20		Emending to submassive Porets covered by micolite and soft sediment.						thrombolic micolite
30	POTD (sed)							
40	DAT	Porets Branch						Soft sediment micolite enclosing Bioclastic sediment
50	GISH	Hetero centaltes spine, archin spine, gastropod, Bivalves.						micolite + soft sediment
60			F2					
70		Porets growth						thrombolic micolite
80		Massive columns Boulders.						
90	DAT							micolite
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	M102	C	21 R	1	42.78 m	43.82 m
Describer(s): Hamon / Potts / Khanna						Date: 14-2-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Broken clasts of Microbialite + Gastropod Laminar Porites						Generally Cordgal Microbialite boundstone
10		Biodasts (Molluscs), & askeopels + Microbialite						within Columnar, to laminar to branching corals.
20		Columnar Porites						The corals are occasionally encrusted by thin CCA.
30		Echinoid spine (cavity)						
40		Consolidated to Unconsolidated Sed.						All corals are encrusted by microbialite crust.
50		thin CCA Gastropod column Porites + Microbialite Verruciform Porites with 5mm CCA Coral - submass						Microbialite is incorporating biodegraded sediment
60		Worm tubes Coral - submass + Microbialite Coral - submass + Microbialite						
70		Coral submass + Microbialite Heterocentrotus Coral 'laminar' + Microbialite						
80		Coral + Microbialite Crust laminar						
90		Coral submass Boring by CCA Bivalves + bipolyst. gastropods						
100		Laminar Coral + thin CCA + microbialite Soft Sediment. → Boring						
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	M102	C	22 R	1	44.16 m	45.63 m
Describer(s): YH- DP- PK						Date: 14/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
✓ DAT		Massive Porites						
10		Cyphostrea on IS. thin CCA, heavily bored						
20								Cavity filled by unconsolidated bioclastic sediment.
30		Porites Pinn heavily Bored						Massive to thrombolic Micobalt.
40								
✓ POTT BRAG		thick CCA with elongate vermetids. Bored + Parona?						
50		Submassive Porites, Boring filled by sediment (gastropod)		BS				Cavity filled by unconsolidated bioclastic sediment.
60								
70		Parona ?	BS	Micobalt				Massive to thrombolic Micobalt.
✓ POTT		Very diverse sediment						Cavity filled by unconsolidated bioclastic sediment (urchin spines, gastropod,
80								Micobalt embedding coral.
✓ POTT (Self)		Parona ? above CCA thin CCA		Caalg				
90		Massive Porites.						
✓ DAT								
100		Parona) embedded in Porites						Massive to thrombolic Micobalt
110		Cyphostrea Caninus IS						
120								Cavity filled by bioclastic sediment
130		Massive Porites embedded in Micobalt. Heavy Boredness at the edge.						
140								
✓ DAT								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	22 R	2	45.63 m	46.79 m

Describer(s): PK / DP / YH	Date: 14/02/2024
----------------------------	------------------

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Echinoid Spine						Corallgal-Micobialite
10		Submassive Porites + thin CCA (2-4mm)						Boundstone - with
20		Soft Sediment + Micobialite						Mostly Massive to
30		Submassive Porites (?) + 1-3 mm CCA + Micobialite						occasional branching
40	DAT	Massive Porites with thin CCA (in some parts)						Porites, with thin CCA and thick Micobialite crusts.
50		Micobialite (Structureless)		Boundstone				Micobialites are (Structureless to laminar) and (columnar to) dendritic
60		Unid. Spine						
70		Branching Coral with CCA - 2-8mm Bored	F-2					
80	BRAG	Pavona (Laminar)						
90	DAT	Massive Porites with CCA (1-8mm)		Corallgal				
100		Heavy Bioerosion						
110		Coral with CCA (laminar)						
120		Micobialite (dendritic)						
130		Porites with CCA (dendritic)						
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	23 R	1	46.81 m	48.28 m
Describer(s): <u>YI. DP. PK</u>						Date: <u>14/02/2024</u>

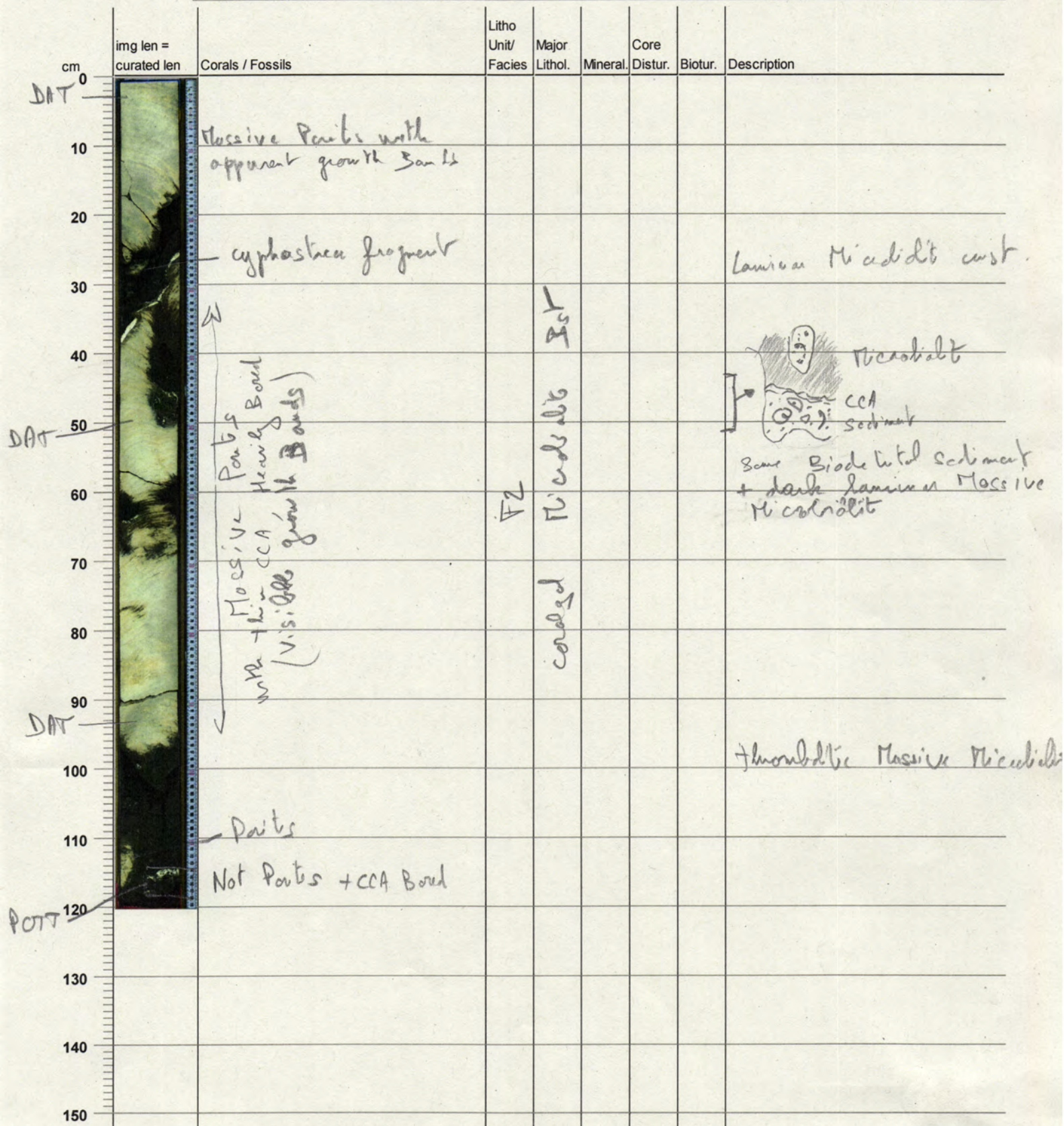
cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		Pores Brand 15						thick micralite laminar to dendritic embedding
20		CCA						Branches of coral encrusted by cm-scale thick CCA
30		Pores Brand 15 - <u>Board</u>						
40		thick CCA						
50	BRAG							
60	DAT	Massive Pores						
70	ASAT	coarse Bioclastic sediment encrusted in micralite	A2					
80								
90								Dendritic micralite
100		Massive Pores with thin (cm) CCA with Vermatids						
110								Massive coral with Dendritic micralite between coral + unconsolidated Bioclastic sediment
120		goathead)						
130								
140	DAT							
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	23 R	2	48.28 m	49.48 m
Describer(s): YH-DP-PK						Date: 14/02/2024





Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	24 R	1	49.58 m	50.66 m

Describer(s): YH-DP-PK	Date: 14/02/2024
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cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								columnar Microbit.
10								
20		Massive Porites						
30		Biohermal sediment (Sponges, Bivalves, gastropods) on thick CCA + Vermis-like		As				carities are filled by Microbit and Biohermal unconsoli- dated sediment.
40		Massive Porites (Borings)						 Porites
50								
60			A2	Microbit				Dominantly Microbit filling cavity + some Biohermal sediment
70		cyphostoma (?)						
80		Porites - Branches fragment		coralline				
90		thick CCA with abundant Vermis-like, Borings encrusting Broken pieces of Porites						Some minor Microbit filling remaining carities
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	M102	C	25 R	1	50.92 m	52.42 m
Describer(s): YH-DP-PR						Date: 14/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		5m crusting coral CCA + Vermetidae - Boring						Massive laminar Microbialite
20								
30								Dendritic Microbialite
40								
50								
60		Borings. Bioturbated substrate (bedroid spine, CCA fragments, amellitids...)						Carbony filled by Bioturbated carbonate and microbialite
70								
80								
90								
100								
110								
120								
130								
140								Laminar Microbialite
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	25 R	2	52.42 m	53.39 m
Describer(s): YH-DP-PR						Date: 14/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		Massive Porites						
20								
30		CCA Nodule with Verrucosities (Bored)						
40		Massive Porites Visible growth Bands						Dark micritic possibly diagenetic (?) filling the cavity.
50		CCA crust	F2					
60								
70		Massive Porites Visible growth Bands						
80								
90		CCA crust embedding a laminar coral						Massive CCA crust + Bioclastic sediment
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	M102	C	26 R	1	53.37 m	54.84 m
Describer(s): YH-DP-PK						Date: 14/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		CCA (Boral)						
10		Massive Porites						
20								
30		Porites Branch						Dominantly laminae (columnar) miccolite, bedding coral branches and fragments.
40		Bored encrusting corals (Cyphostrea)						
50		CCA on Porites (Vermilite)						
60		Edinoid, CCA fragment, coral fragment, gastropod, B. valves thru CCA						centy filled by massive possibly thrombolite miccolite and biotrital skeletons.
70		Massive Porites						
80								
90		thick CCA crust heavily bored with Vermilids and other gastropods. associated with encrusting corals (Cyphostrea)						
100								
110		Robust Branching Porites						Large coral with thin CCA, embedded in an abundant dark laminae massive miccolite.
120								Bioclastic infilling the remaining space.
130		Edinoid spine						
140		CCA + Vermilids + Cyphostrea submassive Porites						
150								Massive structureless miccolite



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	26 R	2	54.84 m	56.18 m

Describer(s): YH-DP-PK	Date: 13/02/2024
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cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		submassive Porites						
10		cyphodonta on top of CCA (Bored)						core dominant by filled by massive stromatolites to thrombotic micritic and remaining pockets of bioturbated sediment. (Edinilla spines, gastropods, coral debris...)
20								
30		Massive Porites						
35	GLSC	CCA + Vermetids						
40								
50								
60		gastropods thin CCA with Vermetids						
70		gastropods thin CCA with Vermetids						
80								
90								
100		Massive Porites (growth Bands)						
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	M102	C	27 R	1	56.13 m	57.63 m
Describer(s): XM-DP-PK						Date: 14/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		submassive Porites						Microalgal laminae to thrombotic embedding pieces of submassive coral.
20		gastropod, lamellibranch, bivalve, spine.						Bioclastic sediment filling the remaining space.
30								
40	POTT	thin CCA + Cyphastrea (cm)						
50	DAT	Massive Porites						
60								
70		Porites + CCA (Vermis) Cyphastrea (?)	2					Massive laminae Microalgal. Some Borings in it.
80			Li					
90	BRAG	thick CCA, Bored with Vermis						
100	POTT	massive Cyphastrea?						
110		Borings filled by bioclastic sed						
120	DAT	Massive Porites						
130								
140		Borings filled by Bioclastic Sed of branching porites or loose piece of coral.						
150								

Boundstone

Microalgal

Coral

Massive laminae to structures dark Microalgal. Some Bioclastic sed in remaining pockets (125-130 cm)



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	27 R	2	57.63 m	58.33 m
Describer(s): MH-DP-PK						Date: 14.02.2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10	DAF	Detached (xs) Porites pieces, jagged (lithophagous) Being filled by rhizoids and Sclerites						Laminar, massive to columnar dark micritic.
20		CCA board						
30		Laminar coral + CCA CCA, Boral + vermetids						
40								
50		Detached (xs) Porites pieces						columnar laminar dark micritic embedding coral pieces.
60		Biohermal Sclerite						Remaining acritics are filled by secondary biohermal sediment (Edinart, Boralver, gastropods)
70	DAF	Porites (xs)						
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	M102	C	28 R	1	58.91 m	60.41 m
Describer(s): YH- DP. PK						Date: 14-02-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Porites colum (?) IS						
10		Bioturbated sed. (Gastropods, Echinoids, Bivalves)						cavity partially filled by laminar micritic calc. and and Bioturbated sediment.
20	ASIN	Heavily bored Porites piece (Boring filled by sediment)						
30	BRAG	CCA + Verrucosities. Bored Boring coral (Cyphastrea?) Porites flaccida IS						
40	GISC	Biogenic coarse sediment (Bivalves, gastropods, Echinoids...)		1 agg				
50	ASIN	CCA. Bored Porites flaccida ISx?						
60								
70	DAT	Porites flaccida IS	42	micritic				cavity between corals filled by laminar to lenticular micritic calc. Bioturbated coarse grained sediment in the remaining space.
80								
90		CCA + Verrucosities		coral				
100		Bioturbated sediment						
110								
120		Porites flaccida IS Thin CCA.						
130								
140								
150	DAT							



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	28 R	2	60.41 m	61.41 m

Describer(s): Hamon / Potts / Khanna

Date: 14-2-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
DAT		Massive Porites						Cordgal Microbial Boundstone
10								with occasional thin CCA + abundant
20								microbialite -
30								(laminated to structures)
40								
50		Microbialite - (Structural)						
60		CCA + Homotrypa + Vermetidae						
DAT			F-2					
70								
BRAG		CCA						
80		Cyphastrea						
Potts (clone)		Porites Submassive						
90		Acropora						
DAT		Porites Submassive						
100		Microbialite - (laminated)						
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	M102	C	29 R	1	61.85 m	63.22 m
Describer(s): <i>Hamon / Potts / Khanna</i>						Date: <i>14-2-2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		<i>Cyphastrea</i>						<i>Coralgal-Microbial</i>
		<i>CCA</i>						<i>Boundstone</i>
10		<i>Submassive Porites</i>						<i>+ Mostly Submassive</i>
20								<i>to Massive</i>
30		<i>Microbialite (Structure)</i> <i>Less + Columnar</i>						<i>Porites with CCA -</i>
40		<i>Submassive - Porites</i>						<i>Occasionally with</i>
50		<i>CCA + vermetids</i>						<i>vermetids.</i>
60		<i>Porites - columnar</i>						<i>Emerging Cyphastrea</i>
70		<i>Microbialite (Structure)</i>						<i>also observed.</i>
80		<i>CCA + vermetids</i>						<i>Microbialites</i>
90		<i>Porites - Massive</i>						<i>(columnar -</i>
100								<i>Structureless to laminar)</i>
110								
120		<i>Emerging Cyphastrea</i> <i>+ vermetids</i>						
130		<i>Branching Porites</i>						
140		<i>Emerging Cyphastrea</i>						
150								

DAT

DAT

BRAG

DAT

Boundstone
Microbialite
Coralgal-Microbialite



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	29 R	2	63.22 m	63.63 m

Describer(s): Gischler, Humblet, Braga

Date: 15 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
DAT		LARGE BORINGS (incl. TERPANITES)						Portes coral
		Portes (M) IS						(based, 'stained' data by
10								data sediment)
RENE		unconsol. sediment	F2					
20		Portes (SM) IS						
GISC		Portes) SAME COLONY						CLA counts with some holes
30								
BRAG		Portes ISN (CRASHED)						microbialite massive,
40								laminated (N4)
								some data unconsolidated
50								sediment
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	M102	C	30 R	1	64.16 m	65.67 m

Describer(s):

Grischler, Humblet, Brogan

Date:

15 Feb. 2024

cm		Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0	img len = curated len	Cyphastrea (EN) IS						• Coral (stained dark from red.)
10		Porites (Col?) IS						
20		Porites n						• CCA - crust with bryozooids (few Homothema and other encrusting forms associated)
30		CYPHASTREA (EN) IS						
40		Porites (M) IS						• microbialite massive laminated and thrombolitic
50		CYPHASTREA (EN) IS						
60		SOME BIOEROSION PRESENT						• some unconsolidated, black sediment in cavities
70		unconsol. sed.						
80		CYPHASTREA (EN) IS						
90		BARNACLE (INCCA)						
100		CYPHASTREA? (EN) IS HIGHLY BIOERODED						
110		Porites (M) IS						
120		Porites (Col?) IS						
130		CYPHASTREA (EN) IS						
140		Porites (Col?) IS						
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	30 R	2	65.67 m	66.09 m
Describer(s): <i>Giischer, Humblet, Braga</i>						Date: <i>15 Feb. 2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
DAT		Powkes (M/Col?) IS.						• coral (stained dark in places)
10								• thin CCA - comb
20								
BRAG		Powkes (M) IS	F2	coralgal-microbial bound stone				• microbialite crust (thrombotic)
30								
DAT		POTX						• some unconsolidated, dark sediment in cavities
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	31 R	1	66.43 m	67.77 m
Describer(s): <i>Gülscher, Hummel, Braga</i>						Date: <i>15 Feb. 2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0								
0		Cyphashea (EN) IS						• Coral, mostly Porites ('stained' black; as before)
10		Porites						
20								• thin CCA-crusts with vesmechids
30								
40		unconsol. sediment → GASTEROPODS BRYOZOANS CA BRANCH CLUSTS						• microbially crabs, laminated and thrombolitic
50		Porites						
60		Porites (M) IS WITH SMALL COLUMNS AT TOP (LIKE P. RUS?)	F2					• unconsolidated sediment (dark) in cavities
70								
80		Porites (SM) IS						
90		Cyphashea (EN) IS						
100		Porites (M) IS						
110								
120		CORAL (EN) IS VERY ALTERED						
130		Porites (SM) IS						
140		Pocillopora? ISX						
150		NB: FEW LARGE BORINGS						



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	32 R	1	68 m	69.15 m

Describer(s):

Gülden, Humbert, Braga

Date:

15 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Pontes 1SN						• coral, some bored (stained from dark sediment)
10		Pocillopora 1SX						
20		Cyphastrea (EN) 1S						
30		Pocillopora 1S						• LLA-crusts with few vermetids and very few Pomatocera
40		unconsol. sed.						
50		Pocillopora 1S						
60		Pontes (M) 1S						• microbialite crusts laminated, thrombolitic
70		Pontes (M) 1S						
80		Cyphastrea (EN) 1S						
90		unconsol. sed.						
100		CRAB CLAN						• unconsolidated sediment in caulices (FINE SAND)
110		Pontes (M) 1S						
120								
130								
140								
150								

DAT

BRAG

DAT

DAT

POTT

DAT

SAME colony?

SAME colony?

F2

coagel-microbialite bandstone



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	32 R	2	69.15 m	69.66 m
Describer(s): Grischler, Humblet, Braga						Date: 15 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		unconsol. sediment (with bioclasts)						• coral (stained from sediment), bored
20		Porites (M) IS						
30			F2	COLLAGAL-MICROBIALITE BOUNDSTONE				• thin (CA-crust (few vermetids)
40		unconsol. sediment MIXED CARBONATE-VOLCANOCLASTIC (with bioclasts) SAND (ECHINOID SPINE, HALIMEDA, MOLLUSC SHELLS, CA BRANCH?)						• thin microbialite crust
50		Porites (SM) IS						• unconsolidated sediment in cavity, rich in bioclasts (and volc. material)
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

BRAG

DAT

RENE

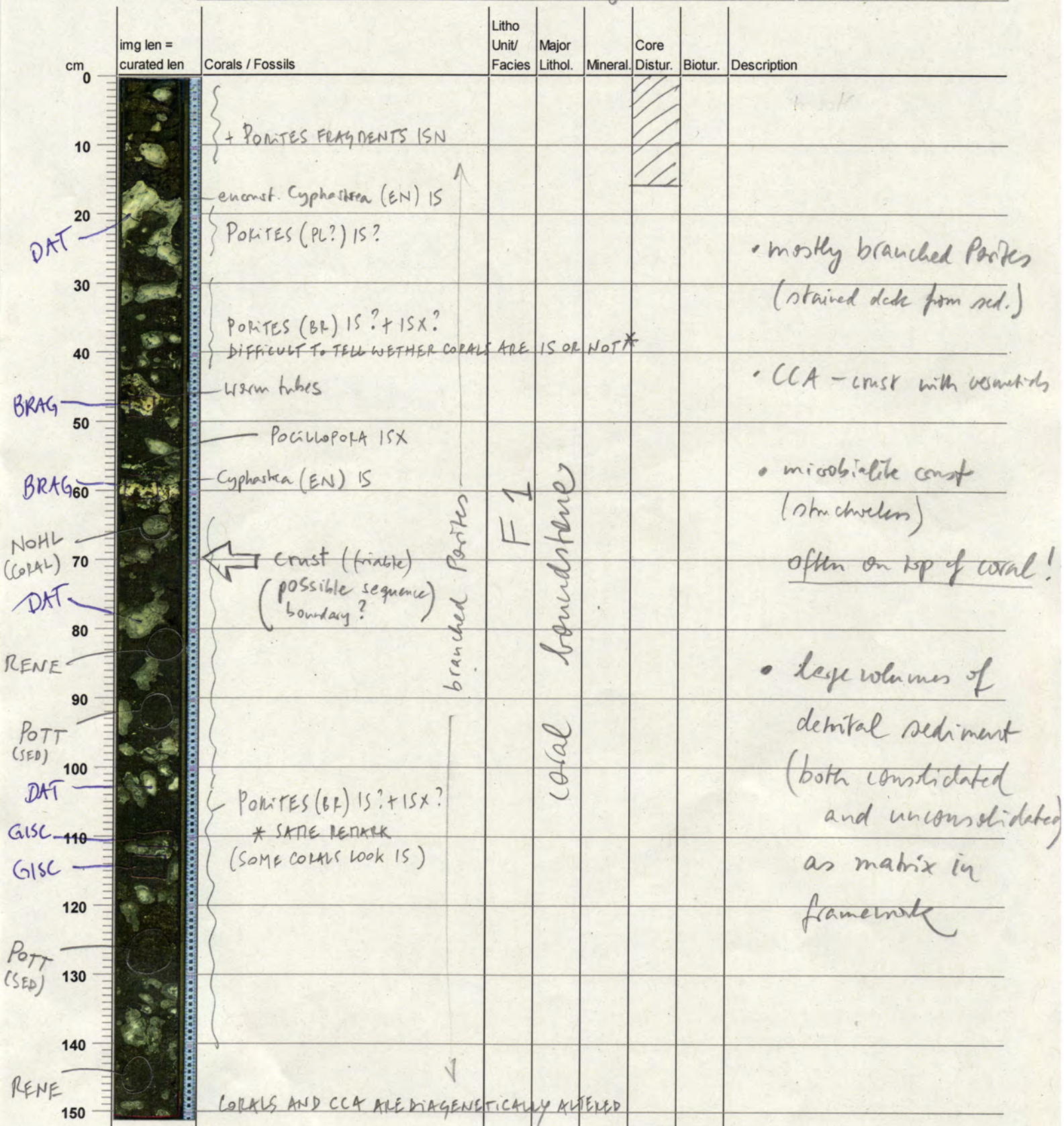
DAT?



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	33 R	1	70.69 m	72.2 m
Describer(s): <i>GISURKE, Humblet, Braga</i>						Date: <i>15 Feb. 2024</i>





Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M102	C	33 R	2	72.2 m	72.71 m

Describer(s):

Güschkes, Humblet, Braga

Date:

15 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		PORITES (PL) IS						• branched Porites
10		PORITES (PL) IS						• few CCA-crusts
DAT		crust?						
20		PORITES (RB) ISX	F1					• some microbialite crusts
BRAG								
30		PORITES (PL/FOL) IS						
40		Millepora? (EN) IS						• matrix of both consolidated and unconsolidated debtal sediment
POTT		PORITES (BR?) IS?						
DAT								
50								
60		NB: CORALS ARE ALTERED						
70		MATRIX: SANDY WITH POCKETS OF MUD - BIOCLASTS ARE MOLLUSC SHELLS, ECHINOID SPINES						
80								
90								
100								
110								
120								
130								
140								
150								