



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M99	G	1 R	1	25.88 m	26.48 m
Describer(s): YM-DP-PK						Date: 20/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Fragment of CCA						
10								
20	POT (sed)	crushed CCA (coral disturbance) with fragments of CCA (cn) in a coarse- sand sized matrix of CCA fragments	FA	Algal ASL				crumbly aspect
30								
40								
50								
60	DAT	Porites Branch, thin CCA (Boud)	FA	coral Boud				coral branches, thin CCA
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	M99	G	2 R	1	30.89 m	31.19 m
Describer(s): Youri / Potts / Khanna						Date: 20-2-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		CCA clast						
DAT		Pontea (submassive)						
BRAG		Pontea - Rhodospira branching						
DAT		land fragments						
10								
20								
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	M99	G	3 R	1	31.33 m	31.8 m

Describer(s):

Hamon / Poths / Khanna

Date:

20-2-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		Submassive Porites						Corallgal Boundstone with submassive Porites + CRA crusts (with some zoopores)
20		Submassive Porites						
30			L-1	Corallgal Boundstone				
40		CRA crust [heavily boiled on top] + zoopores	L-1	Algal Boundstone				Algal boundstone + fragments of Porites
50		Brecciated + fragments of Porites						
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	M99	G	4 R	1	32.03 m	33.48 m
Describer(s): Haman Potls Klanna						Date: 20-2-2024

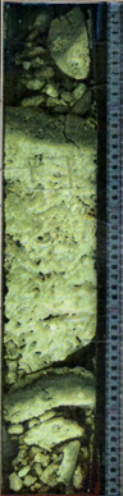
cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0		Altered wood						Algal foundation
10		Porites branching (fragments)						Thick CCA + some FCA +
20		FCA Homotrypa						(Cyphastrea, Montipora, Pocillopora, Porites fragments)
30		Cyphastrea fragment						
40		Worm tubes						- thin micostialite cent.
50		thin branches of Pocillopora						
60		Bivalve						
70		Thin micostialite						
80		thick CCA	H	Boundaries				
90		Pocillopora branches soft sediment Montipora Cyphastrea (?)		Algal				
100								
110		Broken Porites branches						
120		CCA						
130								
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M99	G	5 R	1	34.34 m	34.82 m
Describer(s): <i>Hamon / Poth / Klanna</i>						Date: <i>20-2-2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		CCA with microbialite Echinoderm spines						Algal boundstone with Thick CCA
10		- Microbialite						Core with some FCA Microbialite
20	<i>BRAG</i>	Thick CCA leat + some FCA Vermetids.						Thin leats also present
30		Worm tubes Homotrema						
40		- CCA with microbialite leat						
50		Beehived CCA						
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	M99	G	6 R	1	34.93 m	35.29 m
Describer(s): Hamon Potts Khanna						Date: 20-2-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Porites fragment						Microbial-algal boundstone with
10		CCA with microbialite core						CCA + microbialite corals
20		Echinoderm Worm tube - Sabellariid	li	g-cg				fragmented Porites at top (ISX)
30		CCA with microbialite corals	li	g-cg				
40		Echinoid spines						
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	M99	G	7 R	1	35.27 m	35.62 m

Describer(s):	Hanson Poth Khanna	Date:	20-2-2024
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cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		CCA Microbialite						Corallgal Microbial
		Sabellariid						Ground store with
		CA						
10		Pontis branching with thick CCA						Branching Pontis +
20		Branchy Pontis + CA + microbialite						CCA + Microbialite
30		CCA dark with some microbialite						
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	M99	G	8 R	1	36.3 m	36.46 m
Describer(s): Mamon / Potts / Klanna						Date: 20-2-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Porites - thick branch Montastrea + CCA Porites - thick branch towed top + infill	2 L	Coralline Montastrea				Coralline Montastrea Boundstone
10								
20								
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	M99	G	9 R	1	36.89 m	37.16 m
Describer(s): Heman / Poth / Khanna						Date: 20-2-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0		Fragment → corals + CCA + Porites Microbialite						Coralline Microbialite Boundstone
10		FCA + CCA + microbialite						+ Submarine Porites + CCA + FCA
20		Reef corals - sub marine	H-2	Coralline Microbialite Boundstone				
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

BRAG
DAT

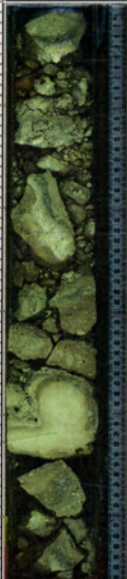


Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M99	G	10 R	1	37.19 m	37.75 m

Describer(s):	Hamon / Potts / Khanna	Date:	20-2-2024
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cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Lypredae						Coralgal Microbalite boundstone.
10		Barroetes (CA + Microbal)						with Branching to Columnal Porites
20		Porites - Branchy + CA + Microbalite						+ CA + Microbalite (Aust)
30		Porites Columnal + CA + Microbalite	F-2					
40		Porites (Branch ?) + CA + Microbalite						
50								
60								
70								
80								
90								
100								
110								
120								
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	M99	G	11 R	1	38.2 m	38.91 m

Describer(s): Hamon | Potts | KLanna

Date: 20-2-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		fragments of corals + CCA + Microbialite						Coralline Microbialite Boundstone
10								+ Columnar + branching Porites
20		Porites - thickening of ↓ columnar						+ CCA + Microbialite lent.
30								
40								
50		Porites (columnar) + CCA + Microbialite	F-2					
60								
70		Porites - branching						
80								
90								
100								
110								
120								
130								
140								
150								



Hawaiian Drowned Reefs

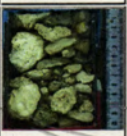
ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M99	G	12 R	1	40.95 m	42.28 m
Describer(s): <i>Hamon / Potts / Kanner</i>						Date: <i>20-2-2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		- CCA						Predominant by Algal Boundstone
10		- CCA + coral fragment						+ Homotrema +
20		- Porites Becken (TSX)						Vermetids
30	<i>BRG</i>	- Thick CCI + some Microbialite						
40		- Worm tubes						
50		+ Vermetids + Homotrema						
60		- Microbialite						
70		- Thick CCA + some Montasma Microbial	<i>Li</i>	<i>Boundstone</i>				
80	<i>BRG</i>	+ Homotrema						
90		- Echinoid spine						
100		- Cyathocera fragment		<i>Algal</i>				
110	<i>BRG</i>	- Vermetid						
120		- CCA						
130		- Broken CCA + microbialite						
140	<i>DAY (15X)</i>	- Coral fragment						
150								



Hawaiian Drowned Reefs						
ONSHORE VISUAL CORE DESCRIPTION						
Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M99	G	13 R	1	43.7 m	43.82 m
Describer(s): Hamon / Potts / Khanna					Date: 20-2-2024	

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Fragments of Porites (br) + CCA.	Li	Coel (m)				fragments of Corals + CCA.
10		Porites + CCA Large Leptopora						
20								
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	M99	G	14 R	1	44.5 m	45.72 m

Describer(s):	Hamon / Potkin / Khanna	Date:	20-2-2024
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cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								lateral Boundstone
10		fragments of Porites + CCA + Echinoderm spines						lateral Mamm to sub massive Porites + Cyphastrea (frag)
20								
30								
40		Massive Porites						
50								
60								
70								
80		CCA + vermetids Cyphastrea	F-A	Boundstone				
90		Submassive Porites						
100		Massive Porites						
110		Massive Porites						
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	M99	G	15 R	1	46.72 m	47.7 m

Describer(s):

Hamon / Potl / Khanna

Date:

20-2-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Large Centropod. + local clark + CCA P. b. r.						Coralline Boundstone with Massive Porites + CCA
10								
20		CCA Vermatrid	LT	Coralline Boundstone				
30		Echinoid spine + g. topod. Massive Porites + Bivalve						
40								
50		CCA Bryostatid Unconsolidated						Bryostatid Unconsolidated
60		+ Echinoid spine	U	Unconsolidated Bryostatid				+ CCA clark + Echinoid spine + local clark
70		Porites Porites Cyphaster	LT					
80		Bored Porites						
90		Columnar Porites	LT	Coralline Boundstone				Columnar 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	M99	G	16 R	1	48.19 m	49.69 m
Describer(s): <i>Kamua / Poth / Klanna</i>						Date: <i>20-2-24</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		5-CCA clasts Porites fragmen						Coralgal Boudstone
10								
20		Submassive Porites Consolidated sediments						
30								Basalt
40		Massive Basalt with sub mm sized pores.						
50		+ a few elongate pores Aphanitic						
60								
70								
80								
90								Coralgal Boudstone
100		Porites Poritina						
110								Basalt
120		Massive Basalt + small bubbles + fracture filled with carbonate sediments						
130								
140								
150								

*Thick zone of
fine grained
from coarse sand to
gravel +
carbonate
(crater)*



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M99	G	16 R	2	49.69 m	50.99 m

Describer(s):	Hamon / Potts / Khanna	Date:	20-2-2024
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cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0			L-8	volcanic clastic				Coarse to very coarse volcaniclastic sed. with
10								Variscular basalt
20								with circular nodules. The nodules are
30								either separate or in some cases touching
40								- Aphanitic texture.
50								Variscular nodules from upper part to lower part.
60								
70								
80			T-9	Basaltic				Some nodules have needle shape crystals for e.g. (84cm)
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	M99	G	17 R	1	50.99 m	52.39 m
Describer(s): <i>Hansen / Roth / Klayne</i>						Date: <i>2-2-2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		<i>Flow like structure</i>						<i>Basalt</i>
10								
20		<i>Basalt with Auriferous vesicles. 1-2mm</i>	<i>4-9</i>	<i>Basalt</i>				
30								
40		<i>Vesicular basalt</i>	<i>4-9</i>	<i>Volcanic clastic</i>				<i>Volcanoclastic</i>
50								
60		<i>Volcanic clastic are cemented by calcareous cement (?)</i>						<i>Basalt (Hydrocastite (?))</i>
70		<i>Hydrocastite (?)</i>						
80								
90								
100			<i>4-9</i>					
110				<i>Basalt</i>				
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	M99	G	17 R	2	52.39 m	52.8 m

Describer(s):

Hamon / B. Ho / Klanna

Date:

20-2-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Small Aplanitic						Basalt
10		with rounded (1-2 mm)						
20		verides	L-O	Basalt				
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	M99	G	18 R	1	52.77 m	53.39 m
Describer(s): Hamon Roth Kharne						Date: 20-2-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Large <i>Centropyge</i> sp. Porites clasts + <i>Centropyge</i>	F-0	FALL-IN				
10								
20		fragmented <i>Porolith</i>						Basalt - Brecciated -
30								Aphanitic + circular voids (1-2mm)
40			F-9	Basalt				Porolith fall in m. well.
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	M99	G	19 R	1	53.24 m	53.69 m
Describer(s): Homan / Potts / Klanna						Date: 20-2-2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								fall in. carbonate clasts.
10								Basalt
20								brecciated - fractured
30		2-4mm - oblong verucles Arbanitic		Basalt				Verucles - 2-4 mm - oblong - not touch
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	M99	G	23 R	1	55.48 m	56.25 m

Describer(s):

Gizur, Humblet, Braga

Date:

21 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								basalt aphanitic & porphyritic
10		aphanitic						round bubbles;
20								density of bubbles
30		porphyritic						decreases downcore
40		olivine and pyroxene crystals	FG	basalt				color = N3
50								
60								
70								
80		} alteration as seen in reddish stain						
90								
100								
110								
120								
130								
140								
150								

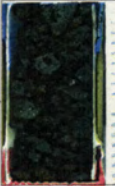


Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

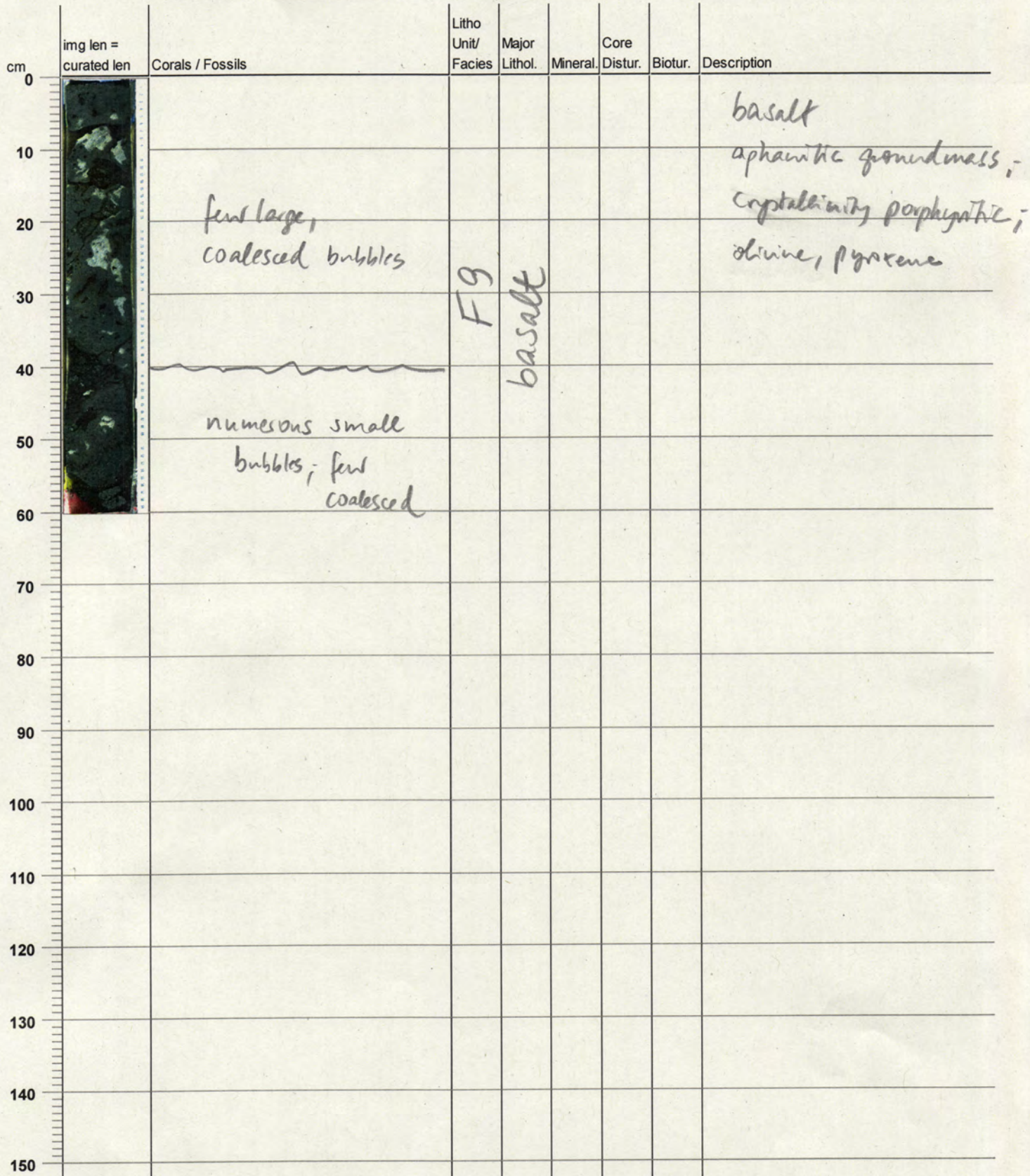
Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M99	G	24 R	1	55.99 m	56.17 m

Describer(s):	Date:
Grisanter, Humblet, Braga	21 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		fragments of basalt mostly aphyne; one fragment is porphyritic	basalt	basalt				aphanitic; round bubbles
10								
20								
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	M99	G	25 R	1	56.22 m	56.82 m
Describer(s): <i>Gröschler, Humblet, Braga</i>						Date: <i>21 Feb. 2024</i>





Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

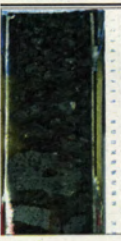
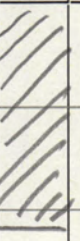
Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M99	G	26 R	1	57.56 m	57.78 m

Describer(s):

Grischler, Humblet, Braga

Date:

21 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0			1-9	basalt				fragmented basalt, groundmass aphanitic, porphyritic with few large crystals;
10								
20								
30								bubbles mostly rounded and small (mm-sized)
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	M99	G	27 R	1	58.86 m	59.28 m

Describer(s):

Grisulter, Humblet, Braga

Date:

21 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								groundmass aphanitic;
10								crystallinity porphyritic
20			Fg	basalt				(olivine, pyroxene)
30								bubbles small & round;
40								some large irregular
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	M99	G	29 R	1	62.42 m	62.63 m

Describer(s):	Date:
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cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0			FG	basalt				groundmass ophanitic; crystallinity poephritic (few large crystals)
10								
20								mostly rounded, small (mm-sized) bubbles
30								
40								few elongated bubbles (cm-sized)
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	M99	G	30 R	1	63.05 m	63.49 m

Describer(s):	Date:
Grischer, Humblet, Braga	21 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								groundmass aphanitic; large crystals - crystalline porphyritic (pyroxene)
10								
20			F9	basalt				
30								bubbles: few small (mm-sized) ones
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	M99	G	31 R	1	65.8 m	66.28 m

Describer(s):	Criskler, Humblet, Braga	Date:	21 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								
20								
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								