



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	A	1 R	1	0 m	0.22 m

Describer(s):

Grischer, Humblet, Braga

Date:

22 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0			F 11	rhodoliths				rhodoliths and fragments of rhodoliths/ algal corals
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	M110	A	3 R	1	1.87 m	2.59 m

Describer(s):

Grischke, Humblet, Braga

Date: 22 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								- massive coral
10								
20	✓ DAT							- thick CLA-crusts with some vermetids, enc. forams
30		Porites (M) IS						
40			F2					- microbialite crusts, massive, dendritic, structureless
50	✓ DAT	Porites (SM/M?) IS						
60	✓ BRAG	some sediment						
70	✓ DAT	Porites (SM/M?) IS						
80	✓ POTT (CORAL SURF.)							
90								
100								
110								
120								
130								
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	A	4 R	1	3.08 m	3.68 m

Describer(s):

Grischler, Humblet, Braga

Date:

22 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		Pontes (PL?) IS						massive coral; superficially bored
20		Pontes (SM) IS						thick LCA-crusts
30		Pontes (SM?) IS						microbialite crusts
40		Pontes (SM) IS						some dendritic endings/ tops, structureless
50								
60		Pontes (Col?) ISN						
70								
80								
90								
100								
110								
120								
130								
140								
150								



Hawaiian Drowned Reefs

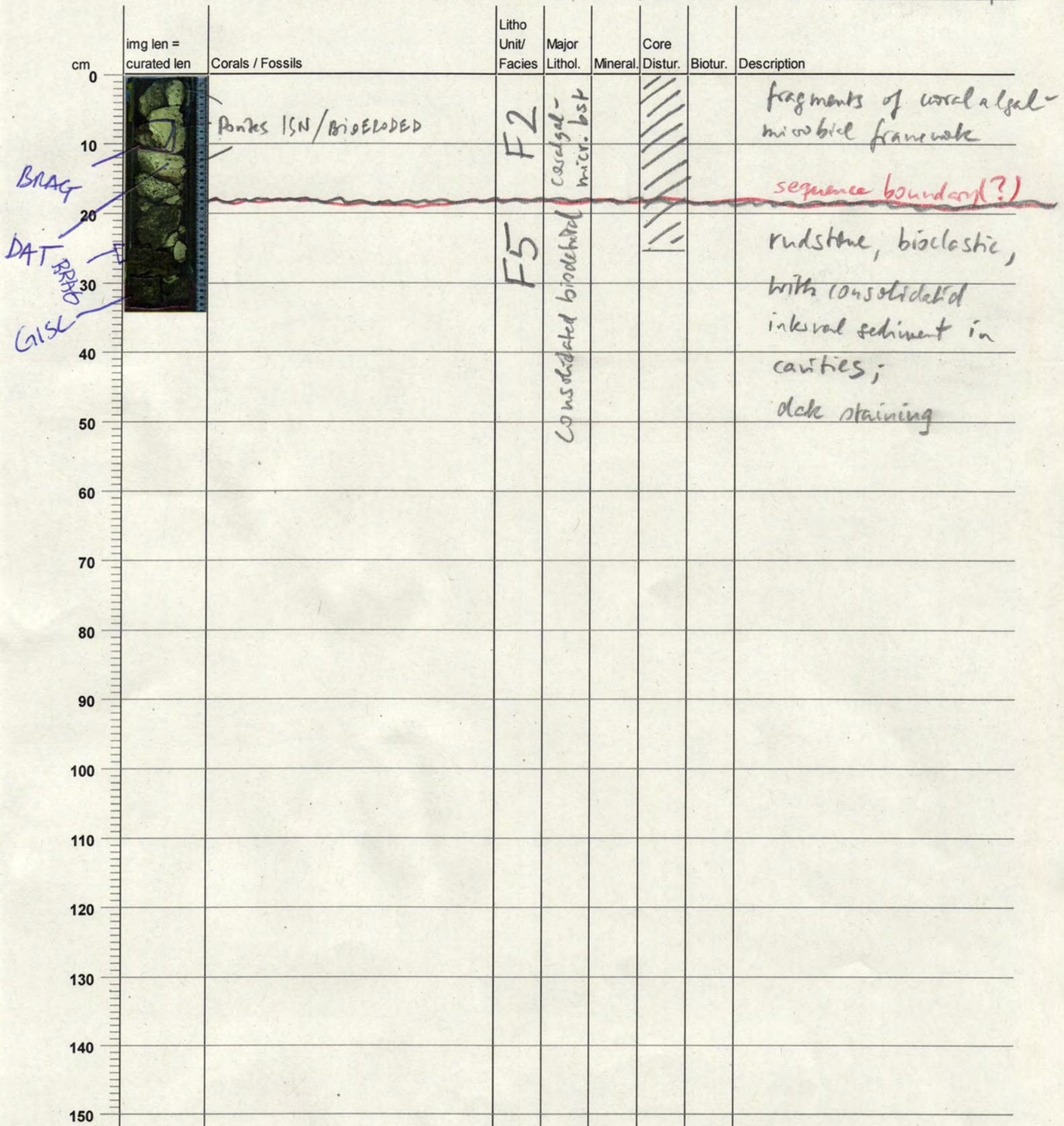
ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	A	5 R	1	4.19 m	4.53 m

Describer(s):

Güschler, Humblet, Braga

Date: 22 Feb. 2024





Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	A	6 R	1	5.16 m	5.96 m

Describer(s):	GJunker, Humblet, Braga	Date:	22 Feb. 2024
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cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0			F0	fall-in				fragments of coral, shell
10								
20								rudstone with many cm-sized bioclasts,
30		Pocillopora (ISX)	F5	consolidated, bioclastic				darkly stained at top, cavities filled in with internal sediment
40								
50		Porites (SM/M?) ISX VERY ALTERED/BIOERODED (ENTOMBIA)						
60		Pocillopora ISX						
70								
80		Porites IS? (PART OF BELOW IS FRAMEWORK?)	F2	coralgal-microb. bondstone				
90								
100								
110								
120								
130								
140								
150								



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ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	A	7 R	1	6.2 m	6.77 m

Describer(s):

Grübler, Humblet, Braga

Date:

22 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0			F0	Fall-is				fragments of coral, microbialite; some redistilled
10								
20		PORITES (EN/SM?) IS						Porites coral, massive
30								CCA - crusts
40		some consolidated bioclastic sediment	F2	coralgal - microb. bot.				massive, laminated microbialite
50		PORITES ISN						
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

BRAG
✓
DAT
✓



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	A	8 R	1	6.71 m	7.93 m

Describer(s):

Grischke, Humblet, Braga

Date:

22 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		echinoid Cypraea gastropod				///		- massive coral
10		Porites IS						- CCA - corals, thick
20								
30		Porites IS (bioeroded/entombed)						- massive and dendritic microbialite, laminated
40	DAT	Porites IS						
50	GISC							
60	BRAG	Porites ISN						
70	POTT	Porites (M/PL) IS						
80	DAT	Porites (PL) IS						
90		Porites (PL) IS						
100								
110		{ Frag ^s of Porites				///		
120						///		
130								
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

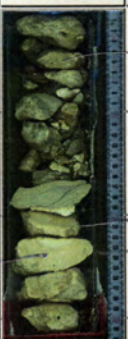
Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	A	9 R	1	8.97 m	9.29 m

Describer(s):

Grischke, Humblet, Braga

Date:

22 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Highly Bioeroded PORITES piece ISN						fragments of coral, microbially, coralline algae
10								
20		Porites ISN	F2	wedge-microbially bst.				
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

DAT



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

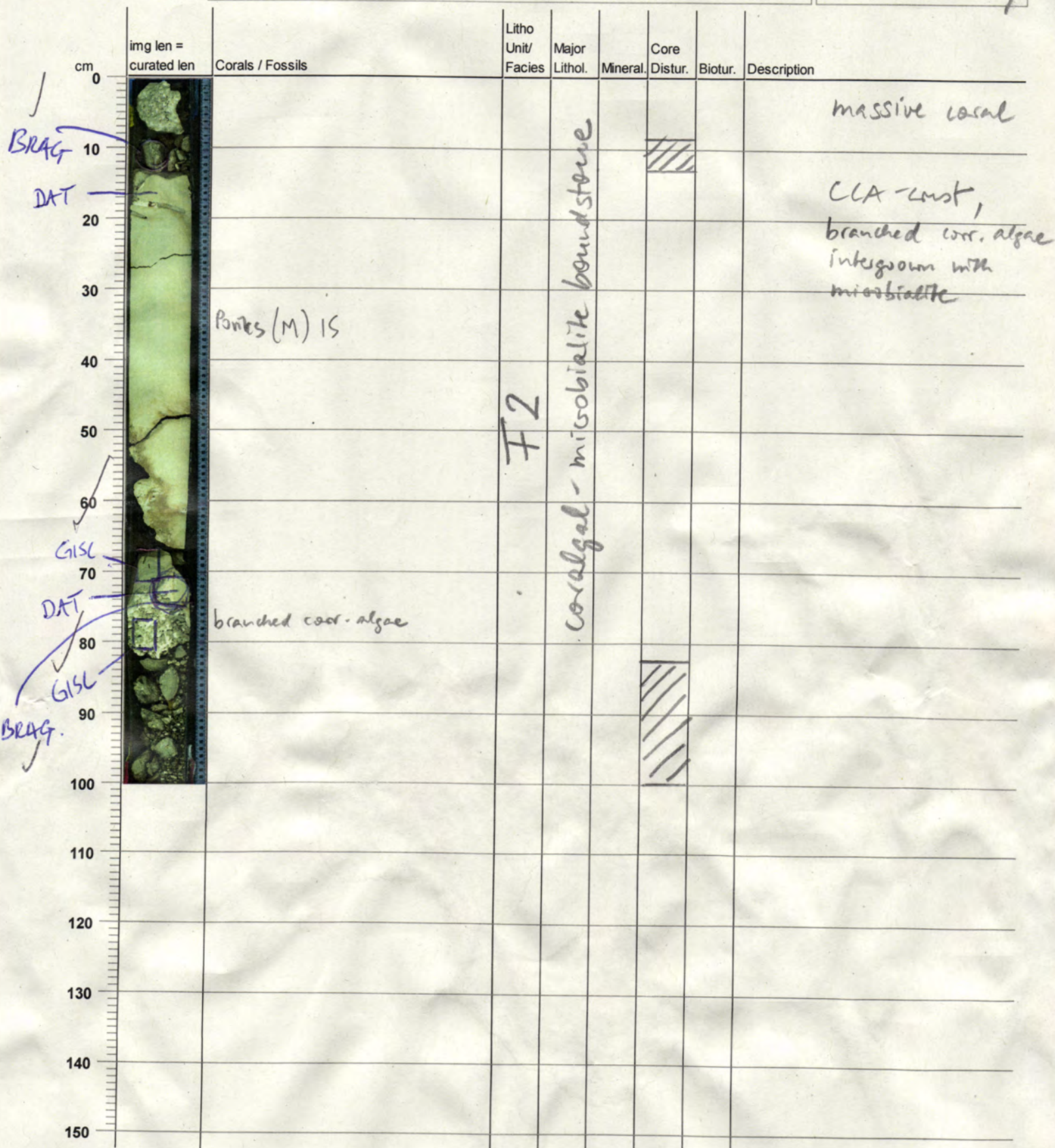
Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	A	10 R	1	9.1 m	10.1 m

Describer(s):

Güchler, Humblet, Braga

Date:

22 Feb. 2024

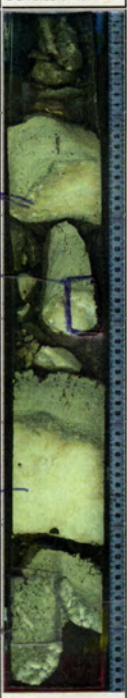




Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	A	11 R	1	10.06 m	10.72 m
Describer(s): <i>Giischer, Humblet, Braga</i>						Date: <i>22 Feb. 2024</i>

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								<i>massive Pontes</i>
10								
20	<i>DAT</i>	<i>Pontes (SM) IS</i>						<i>CCA-crust</i>
30	<i>BRAG</i>							<i>thick microbialite</i>
40			<i>F2</i>	<i>coralgal-microbialite</i>				<i>crust, massive and dendritic</i>
50	<i>DAT</i>	<i>Pontes (M) IS</i>						
60		<i>SHARP CONTACT</i>						
70	<i>GIISC?</i>							
80								
90								
100								
110								
120								
130								
140								
150								

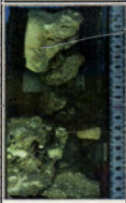
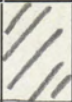


Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	A	12 R	1	11.14 m	11.33 m

Describer(s): *Gischler, Humblet, Braga*Date: *22 Feb. 2024*

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		<i>PORITES (SN HIGHLY BIOERODED)</i>	<i>F2</i>	<i>Localgal-mic. bst.</i>				<i>fragments of coral;</i>
10		<i>PORITES (ISX)</i>						<i>microbialite</i>
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	M110	A	13 R	1	11.21 m	11.61 m

Describer(s):

Güschke, Humblet, Braga

Date:

22 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral.	Core Distur.	Biotur.	Description
0								fragmented pieces of coral, microbially, calc. algae
10								
20		CRUSHED PORITES ISN (SOME OF THE PIECES ARE HEAVILY BORED)	F2	coralgal - microbially boundstone				
30								
40								
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	M110	A	14 R	1	12.46 m	13.97 m

Describer(s):	Gisunter, Humblet, Braga	Date:	22 Feb. 2024
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cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								fragments of coral, microbialite
10								as above
20								basalt =
30								groundmass aphanitic
40								crystallinity: porphyritic
50								round bubbles ϕ 1-2 mm
60								hiatus?
70								hyaloclastite
80								pillow? clasts of basalt fragments cm- sized
90								Some carbonate sand infill
100								
110								
120								
130								
140								
150								

RENE



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	A	14 R	2	13.97 m	15.31 m
Describer(s):						Date:

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10								hyaloclastite
20			F9	basalt				w/ basalt fragments
30								
40		carbonate sed. infill						
50			F5					grainstone with many bioclasts and volc. grains
60								
70								hyaloclastite
80								with basalt fragments
90								and pillow(?)
100			F9	basalt				
110								
120								
130								
140								
150								

RENE
bioclast.
consol.
(GISC)

} pillows ?



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	A	15 R	1	15.1 m	15.6 m

Describer(s): *Grisako, Humbket, Braga* Date: *22 Feb. 2024*

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								fragments of coral, coralpal framework (clearly displaced)
10								
20								
30								
40								fragments of basalt aphanitic porphyritic
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	A	16 R	1	15.39 m	16.7 m

Describer(s):

Grischke, Humblet, Braga

Date:

22 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0			H0	fall-in				fragments of coral, microbialite
10								
20								
30		basalt						basalt = aphanitic groundmass crystallinity = porphyritic bubbles round
40								
50								
60		hyaloclastite						fragments of basalt in breccia
70			F3	basalt				basalt as above, but number of bubbles decreases downhole
80								
90		basalt						
100								
110								
120								
130								
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	A	17 R	1	16.52 m	17.75 m

Describer(s):	Grishler, Humblet, Braga	Date:	22. 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		small bubbles						basalt:
20								aphenitic groundmass
30		big bubbles						crystalline porphyritic
40								bubbles round
50		hyaloclastite						
60			F9	basalt				
70		(brecciated basalt)						
80								
90								
100								
110								
120								
130								
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M110	A	18 R	1	17.63 m	18.68 m

Describer(s): *Gischler, Humblet, Braga*

Date: *22 Feb. 2024*

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol:	Mineral	Core Distur.	Biotur.	Description
0								
10								
20								<i>hyaloclastite</i>
30								<i>(with basalt fragments, pillow?)</i>
40								<i>breccia texture</i>
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								