



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M107	A	1 R	1	0 m	0.67 m

Describer(s):

Gisler, Humblet, Braga

Date:

21 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Porites ISX						pieces of coral,
10		grainstone - rudstone						bioherms, basalt cemented in grainstone
20		CYPHASTREA ISX HIGHLY PROTERODENT						CONGLOMERATE (WITH UP TO
30		Porites ISX						COBBLE-SIZED CLASTS)
40		basalt						
50		microbialite fragment (thrombolitic)						
60		basalt						basalt: groundmass ophanitic crystallinity = porphyritic (olivine)
70								numerous round, coalesced bubbles
80								
90								
100								
110								
120								
130								
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

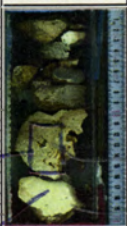
Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M107	A	2 R	1	0.64 m	0.85 m

Describer(s):

Gisantes, Humblet, Braga

Date:

21 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0			F 10	Mixed carb.- volcanic clast				fragments of coral, microbrite, basalt
10		microbrite						
20		Porites ISN						
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

GISE

DAT



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M107	A	3 R	1	0.81 m	0.97 m

Describer(s): Grischke, Humbket, Braga

Date: 21 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Porites ISN	T 10	mixed carb. - volcanic ash		///		fragments of coral,
10								basalt, CCA-crust
20								
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

BRAG



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M107	A	4 R	1	1.15 m	2.6 m
Describer(s):						Date:

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0			F0	fall-in				fragments of coral, basalt
10		PORITES 15X	F1	coral				coral, CCA-crusts
20		Porites 15? VERY ALTERED		bst.				
30			F9	basalt				basalt
40								groundmass aphanitic
50								crystallinity porphyritic,
60								numerous crystals of olivine
70		microbialite crust (laminated, thrombolitic); bioclastic sediment (WITH NUMEROUS BRANCHED CORALLINE ALGAE)						bubbles abundant, round, 1-2 mm φ
80								
90								
100								
110								
120								
130								
140								
150								

DAT

BRAG

GISC



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M107	A	4 R	2	2.6 m	3.82 m

Describer(s):

Gaisler, Humblet, Braga

Date:

21 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10								basalt
20								groundmass aphanitic
30								crystallinity porphyritic
40								(olivine, pyroxene)
50								bubbles round (see above)
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	M107	A	5 R	1	3.9 m	5.4 m

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

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0		Powder 15X	F0	fall-in				fragments of coral, microbialite, basalt
10								
20		microbialite crust unconsolidated, fine sed.						basalt: groundmass aphanitic
30								Crystallinity: porphyritic
40								(olivine, pyroxene crystals abundant)
50		microbialite crust CCA-crust red algal, branched						bubbles round mm- sized;
60								few larger bubbles
70			F9	basalt				
80		sediment, inkrust						
90								
100								
110								
120								
130		crack with microbialite crust						
140								
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M107	A	5 R	2	5.4 m	6.69 m

Describer(s):

Griswold, Humblet, Braga

Date:

21 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10								basalt.
20								groundmass aphanitic cryst.: porphyritic
30								bubbles: round mostly; few irregular large bubbles
40								
50			F9	basalt				
60								
70								
80								
90								
100								
110								cavity with fine internal laminated sediment
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	M107	A	6 R	1	6.55 m	8.03 m

Describer(s):

Güschler, Humblet, Braga

Date:

21 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10		interval sediment						
20								basalt with
30								aphanitic groundmass
40								porphyritic
40								(olivine, pyroxene)
40		} cavity filled with bioclastic sediment						bubbles round.
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

GISCU
BakerFg
basaltcracks filled with biocl.
sediment



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M107	A	6 R	2	8.03 m	9.3 m

Describer(s):

Güschke, Mumböck, Braga

Date:

21 Feb. 2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10								basalt
20								aphanitic groundmass
30								porphyritic (olivine, pyroxene)
40								round bubbles
50		laminated interval sed.						
60			Fg	basalt				
70	GISC	laminated interval sed.						
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	M107	A	7 R	1	9.3 m	10.33 m

Describer(s): YH-DP-PK

Date: 21/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10								
20		Bioclastic unconsolidated Sediment pocket						
30								Porphyritic Basalt with olivine and px crystals. Abundant rounded sub-mm vesicles. Aphanitic matrix. Fractured.
40								
50								
60		Fine grained calcareous + volcanogenic sediment carbonate Bioclastic unconsolidated sediment infilled of forams	LA	Basalt				
70								
80								
90		possible micritic						
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	M107	A	7 R	2	10.33 m	10.5 m
Describer(s): YH-DP-PK						Date: 21/02/2024

cm	img len = curated len	Corals / Fossils	Litho	Major	Mineral	Core	Biotur.	Description
			Unit/ Facies	Lithol.		Distur.		
0				Basalt				Porphyric Basalt with olivine and px crystals. Abundant rounded sub-mm Vesicles. Fractured. Aphanitic Matrix.
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	M107	A	8 R	1	10.78 m	12.25 m
Describer(s): YA-DP-PK						Date: 21/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10								
20								
30		Fine grained Bioblastic unconsolidated sed. + micritic.						
40		Also of big rocks						Porphyric Basalt with olivine and px crystals. Abundant rounded sub-mm vesicles. Frothed. Aphanitic matrix
50								
60								A few large coalesced vesicles
70			FG					
80				Basalt				
90	GBH	Possible micritic						
100								
110								
120								
130								
140		Fine grained Bioblastic unconsolidated sediment.						
150								



Hawaiian Drowned Reefs

ONSHORE VISUAL CORE DESCRIPTION

Expedition	Site	Hole	Core	Section	Top depth (CSF-B)	Bottom depth (CSF-B)
389	M107	A	8 R	2	12.25 m	13.05 m
Describer(s): YH- DP-PK						Date: 21/02/2024

cm	img len = curated len	Corals / Fossils	Litho Unit/ Facies	Major Lithol.	Mineral	Core Distur.	Biotur.	Description
0								
10								
20								Porphyric Basalt with olivine and px crystals. Abundant rounded sub-mm vesicles. Fragmented Aphanitic texture
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								