

Biogeochemical and microbial microseepage connectivity from a deeply buried salt diapir on the Scotian Slope of Atlantic Canada

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Supplemental Data

Figures: S1-S11 Tables: S1-S6

References

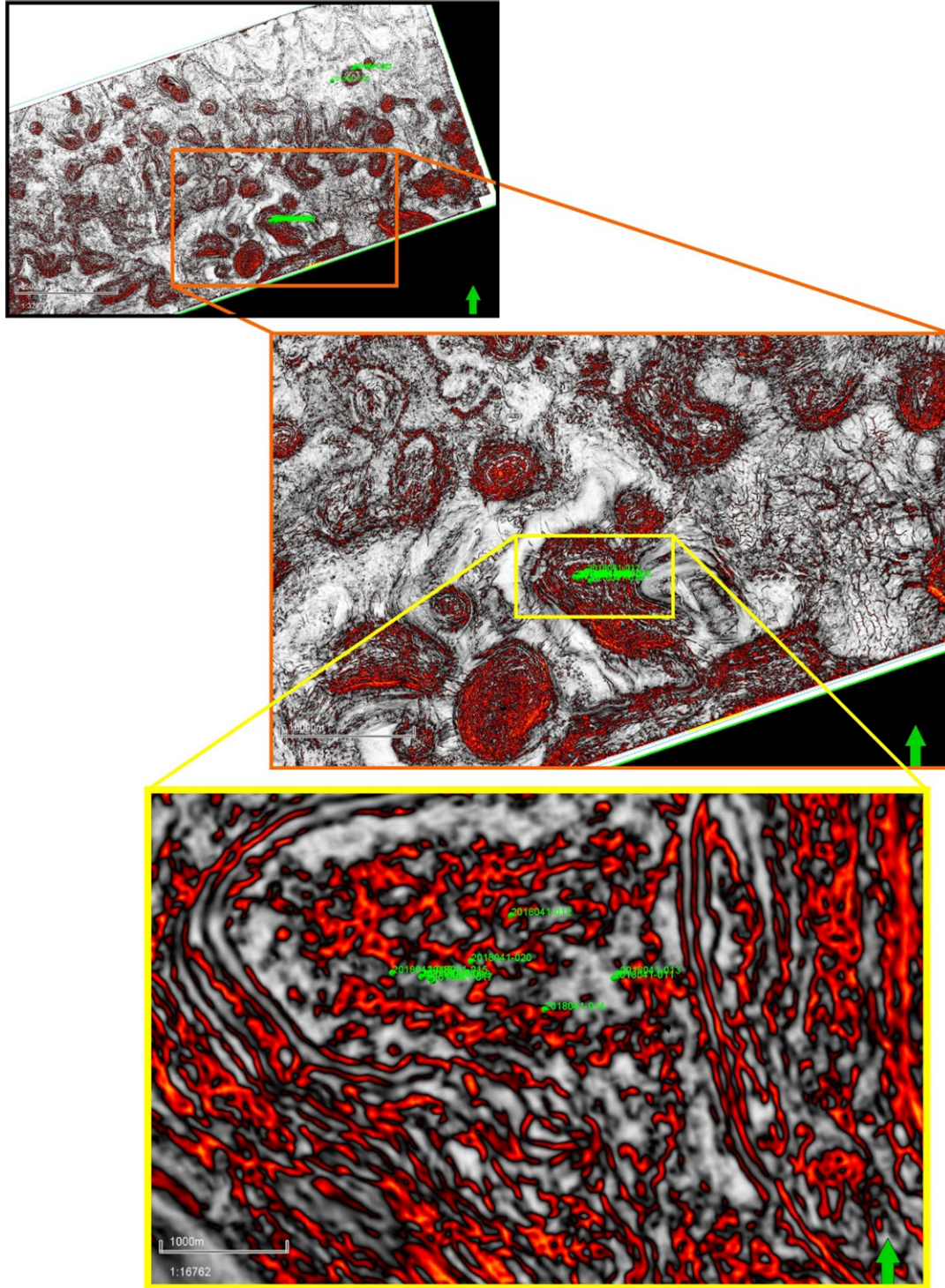


Figure S1: Covariance maps of the Shelburne data block at 4000 mbsl, illustrating the distribution of detected structural features around seep site 2A-1. Highlighted red regions signify disturbed crustal rocks within this region of the salt diapiric province. The enlarged panels provide progressively higher-resolution views detailing the overlying coring positions of the transect area for this study.

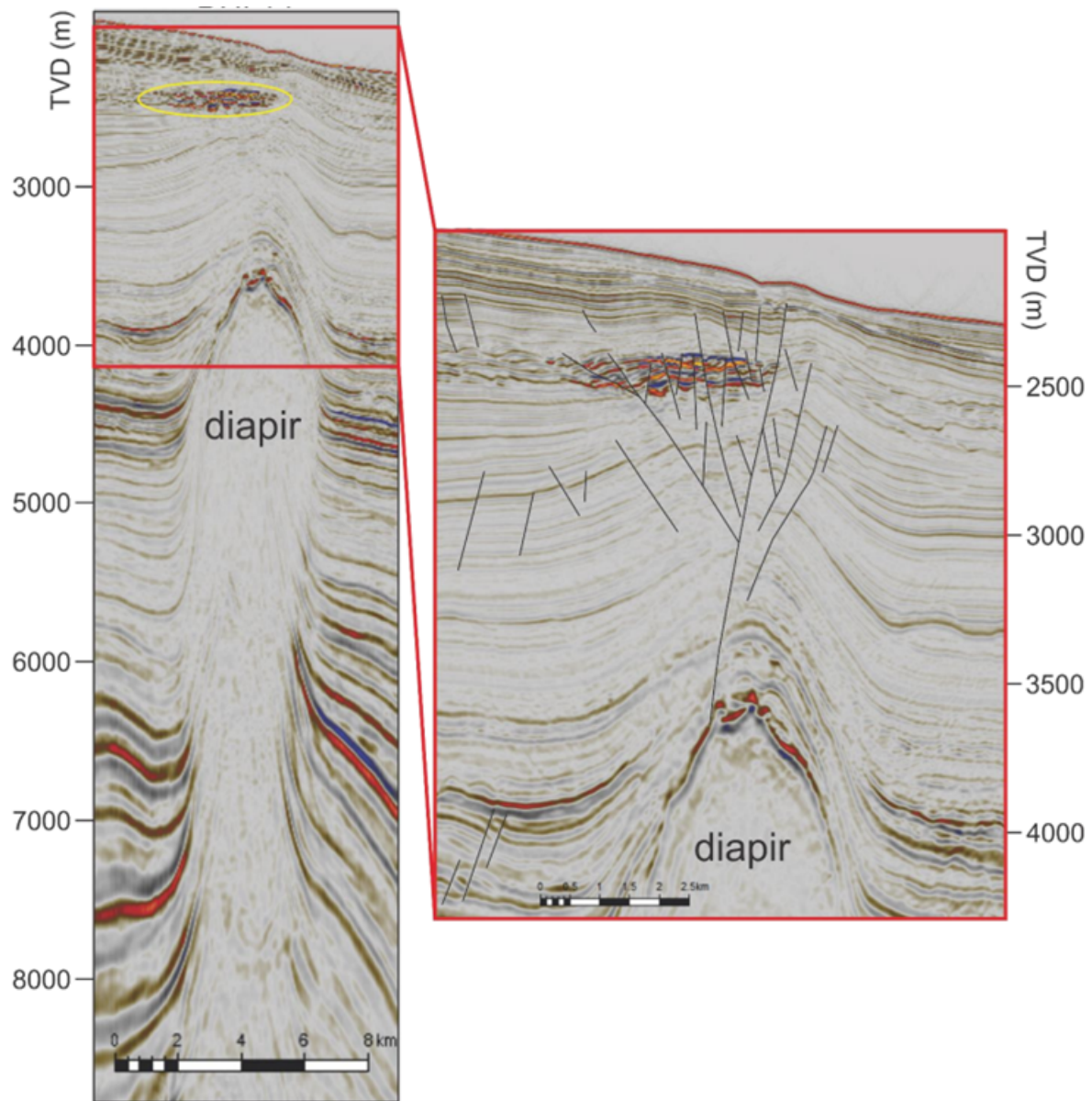


Figure S2: Strike-oriented seismic cross-section from the Shelburne 3D survey illustrating the subsurface geology across the DHI. The yellow ellipse on the left indicates the position of the DHI, and the red box on the right highlights a shallow portion of the profile with faults delineated in black (data provided by Shell via NSDNRR; Chowdhury et al., 2024).

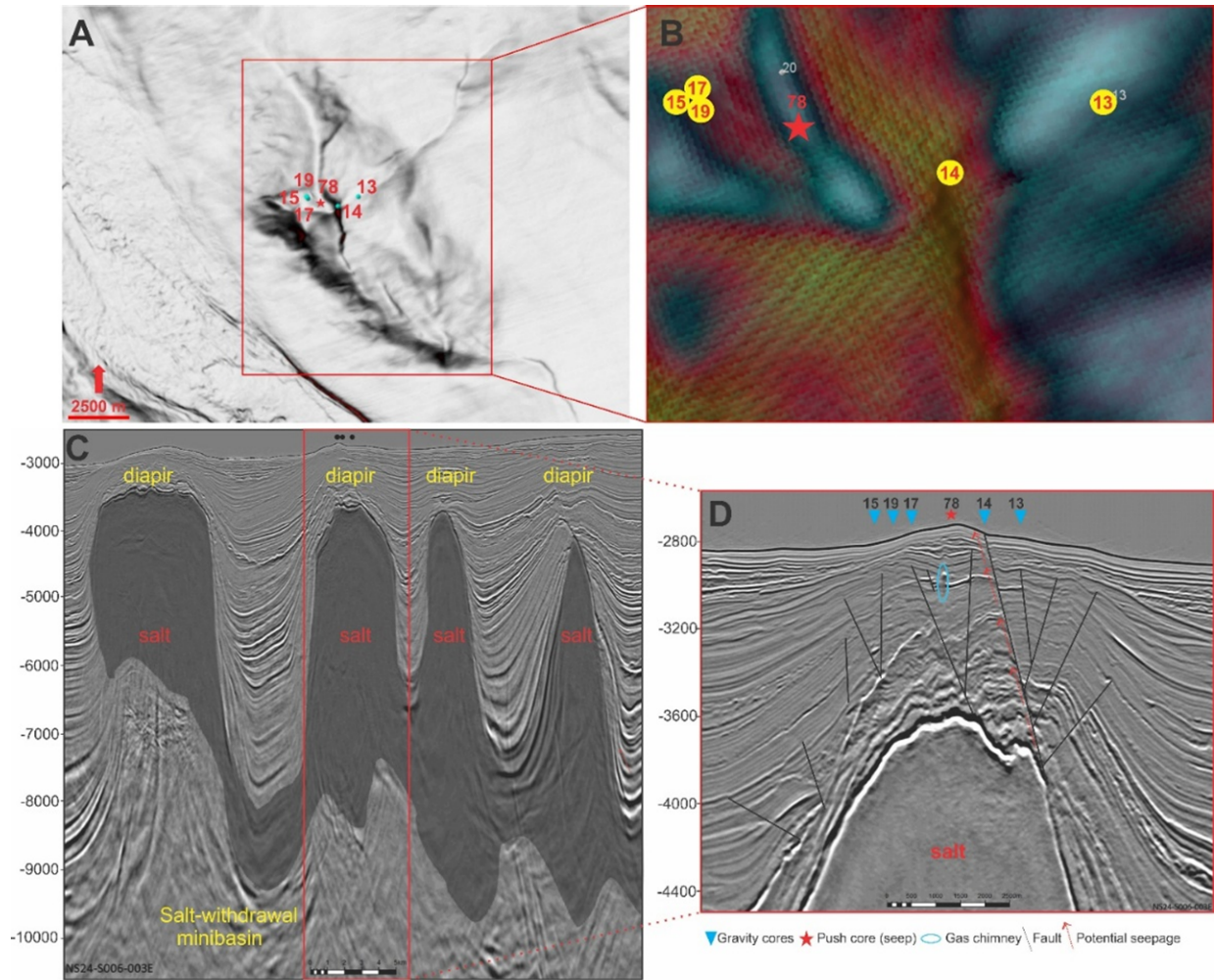


Figure S3: Structural features and potential fault-controlled geofluid pathways above a buried salt diapir. A) Coherence map showing the main fault zone intersecting the study area and the distribution of gravity cores and the seep site. B) Zoomed RMS amplitude map with coherence attributes delineating the fault trace in core 14. C) Seismic section displaying vertically rising salt diapirs and intervening withdrawal minibasins. D) Detailed seismic profile showing fault networks that may channel geofluids toward the seafloor, spatially aligned with gravity cores and the seep (NSDoE, 2025).

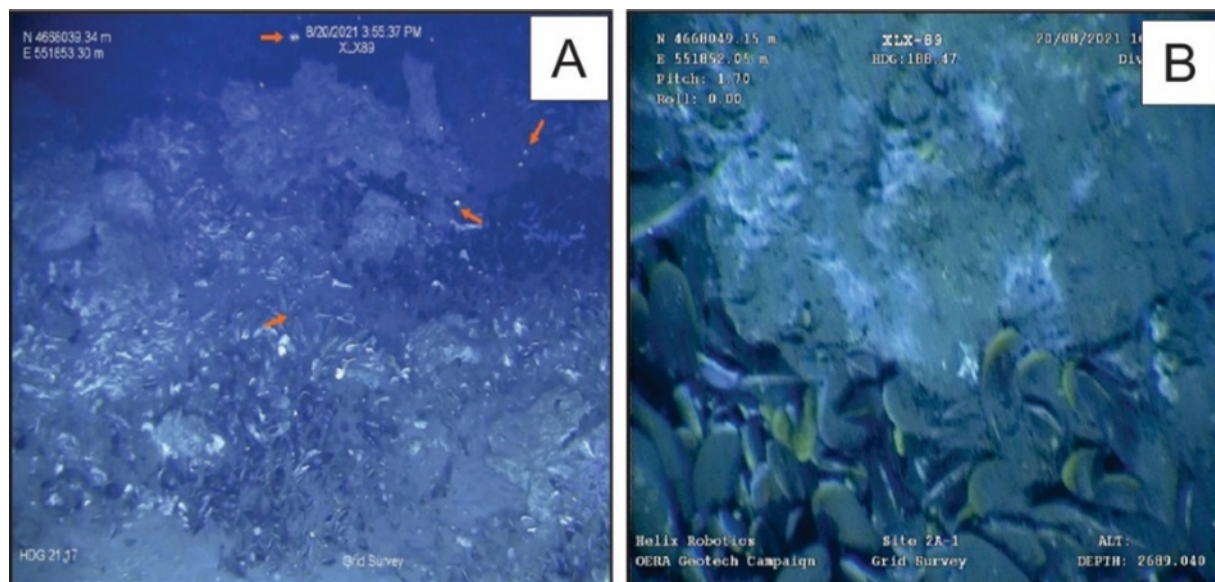


Figure S4: A) Fluid escape features characterized by the release of active bubbles. B) Small bivalves observed in association with The Hole.



Figure S5: Gravity coring strategy. “Images are sourced from the Canadian Coast Guard’s Offshore Fisheries Science, Autonomous Underwater Vehicles-Ocean Health Research-iAtlantic, and Woods Hole Oceanographic Institution.”



Figure S6: Push core sampling techniques employed during the 2021 expedition.

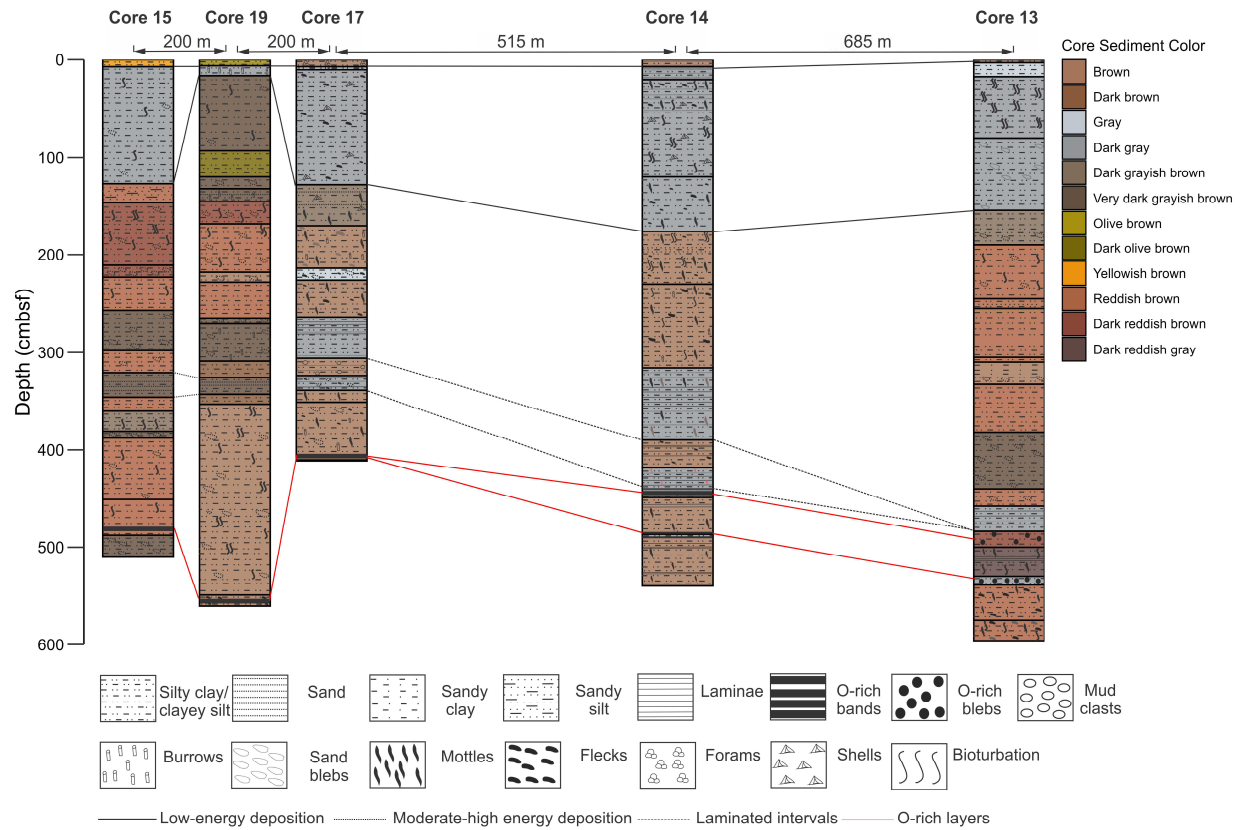


Figure S7: Spatial distribution of sedimentary features and lithological characteristics observed in sediment cores.

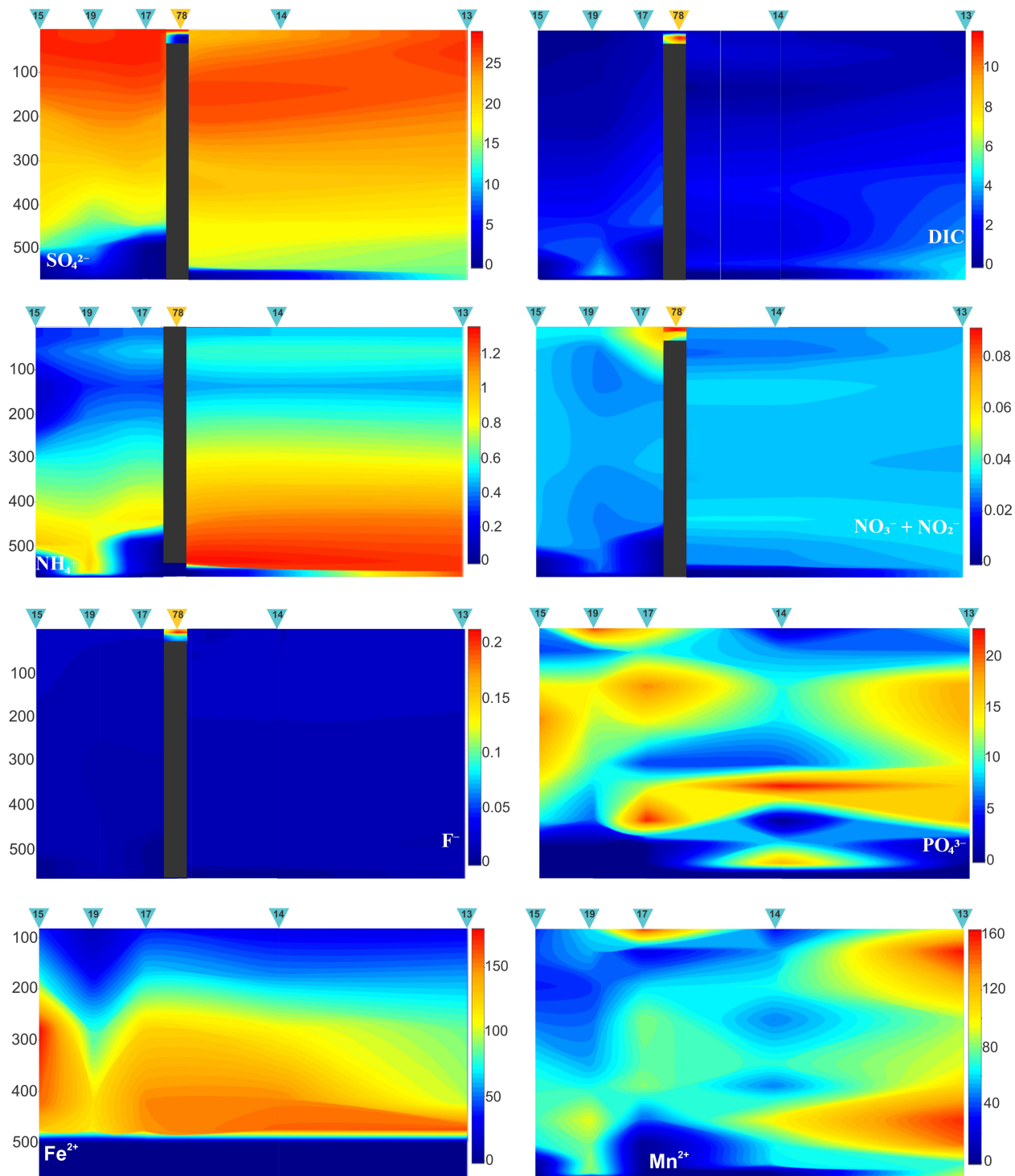


Figure S8: Heatmaps of sediment porewater ions.

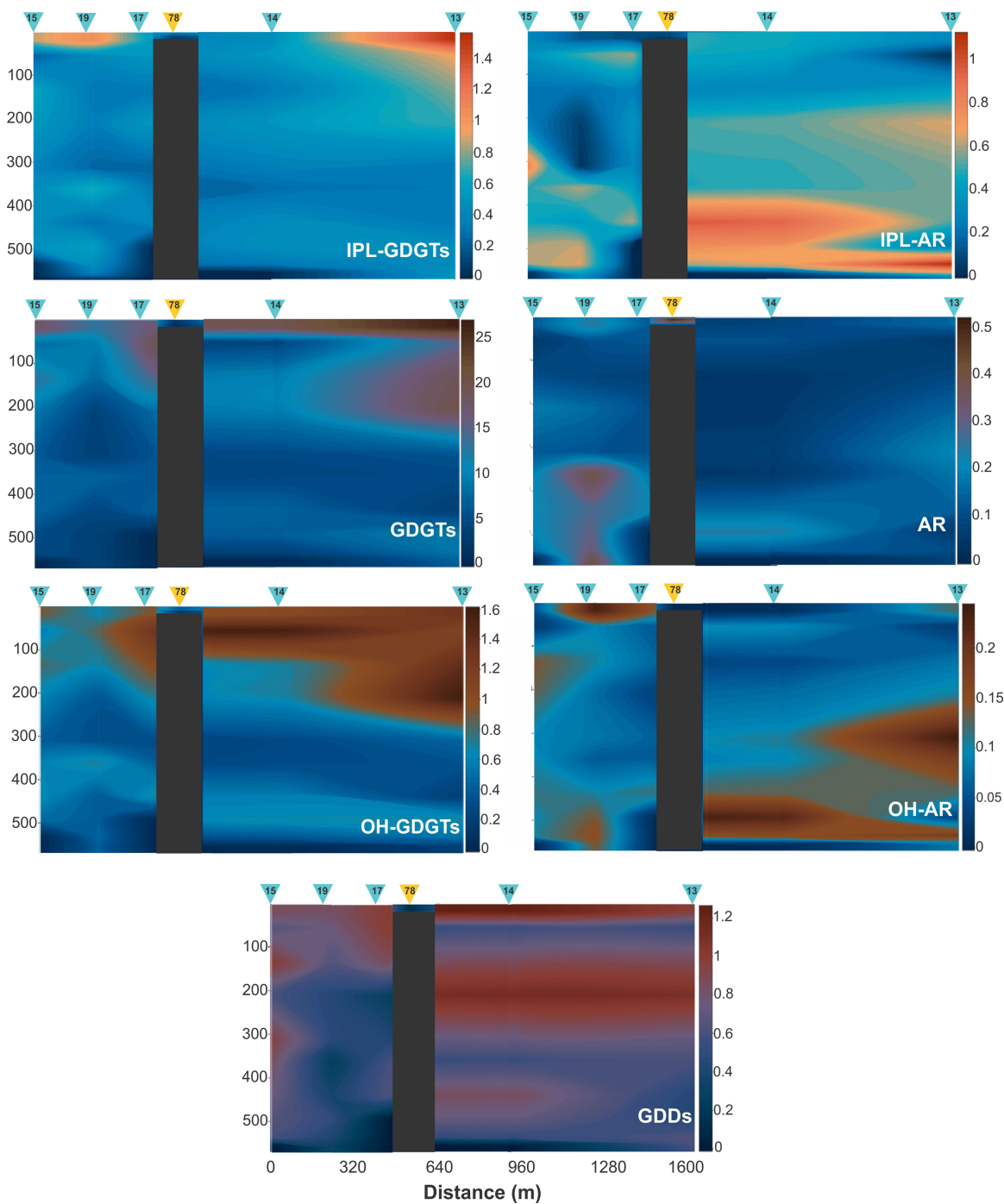


Figure S9: Heatmaps showing the spatial distribution of archaeal IPLs, and CLs, and their hydroxylated derivatives.

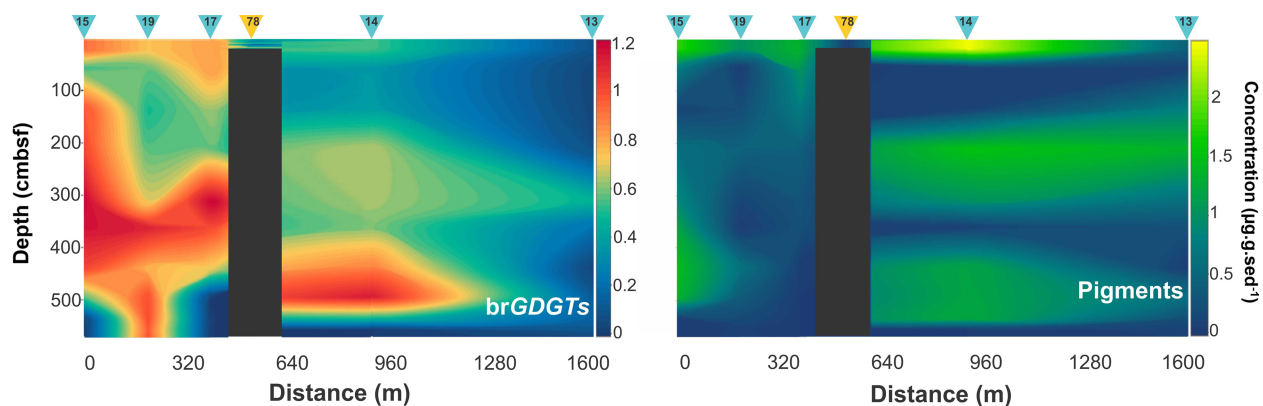


Figure S10: Heatmaps illustrating the distribution of *brGDGTs* and photosynthetic pigments.

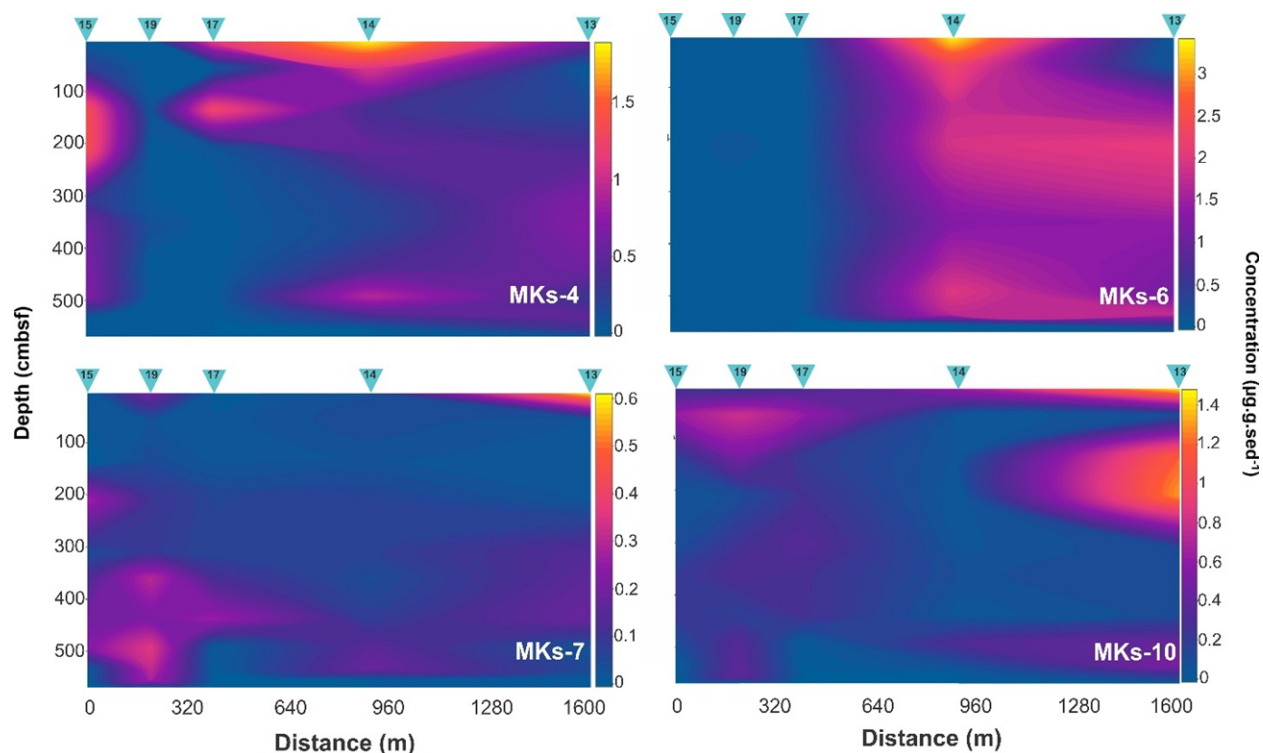


Figure S11: Transect heatmaps of menaquinones with varying isoprenyl side chain lengths.

85 **Table S1:** Sample information.

Core	Core type	Lat.	Long.	Water depth (m)	Core depth (cmbsf)	Hydrocarbon detection
15	Gravity	42.162406	-62.373833	2730	575	Ambient
19	Gravity	42.162113	-62.373551	2745	556	Ambient
17	Gravity	42.161888	-62.373318	2742	406	Ambient
78 (The Hole)	Piston	42.162698	-62.372356	2687	20	Seep
14	Gravity	42.159826	-62.362795	2782	535	Ambient
13	Gravity	42.162286	-62.355568	2791	570	Ambient

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88 **Table S2:** Detailed stratigraphic description of gravity cores.

Core 15	Core 19	Core 17	Core 14	Core 13
0-7 cm Yellowish brown silty clay.	0-6 cm Olive brown silty clay with some sand.	0-7 cm Brown clay silt with forams.	0-7 cm Brown silty clay in minor fine sand.	0-3 cm Brown silty clay.
7-127 cm Dark gray silty clay with rare bioturbation and sand blebs.	6-16 cm Dark gray silt clay with lots of burrows.	7-10 cm Gray silty clay with forams.	7-20 cm Dark gray silty clay in minor fine sand.	3-17 cm Gray silty clay.
127-146 cm Reddish brown sandy silt.	16-93 cm Very dark greyish brown silty clay with rare bioturbation and sand blebs.	10-128 cm Dark gray silty clay with rare shells and black mottling.	20-120 cm Dark gray silty clay with areas of visible bioturbation and clamshells. Black mottling, black flecks, and minor sand between 20- 60 cm.	17-80 cm Dark gray silty clay highly bioturbated from 20 cm.
146-211cm Dark reddish brown silty clay with bioturbation and sand blebs.	93- 120 cm Dark olive brown silty clay.	128-170 cm Dark greyish brown silty clay with some sand, rare shells, and black flecks.	120-176 cm Dark gray silty clay with black flecks and black mottling.	80-154 cm Dark gray silty clay with fine sand blebs.
211-223 cm Dark reddish brown silty clay with many sand blebs.	120-132 cm Very dark greyish brown silty clay with sand blebs.	170-214 cm Brown clay silt with brown mottling, black flecks, and burrows.	176-230 cm Brown clayey silt with some sand, black flecks, bioturbation, and black mottling.	154-190 cm Dark grayish brown silty clay with sand blebs between 170-180 cm.
223-257cm Reddish brown silty clay with rare bioturbation.	132-145 cm Very dark greyish brown silty clay with burrows and sand.	214-226 cm Gray silty clay with black mottles and some sand blebs.	230-316 cm Brown silty clay with some black mottling black flecks, rare bioturbation and burrows.	190-245 cm Reddish brown silty clay with rare sand blebs and rare bioturbation.
257-298 cm Very dark greyish brown silty clay with sand blebs and large blebs between 284- 289 cm.	145- 168 cm Dark reddish brown silty clay with bioturbation and send blebs.	226-264 cm Brown clay silt with black flecks and black mottling.	316-390 cm Dark gray clayey silt with some sand, black and brown flecks, and black laminae.	245-255 cm Reddish brown sandy clay with sand layers between 252-254 cm.
298-321 cm Reddish brown silty clay with rare sand blebs.	168 – 218 cm Reddish brown silty clay some bioturbations and sand blebs.	264-306 cm Dark gray silty clay with some sand, black blebs, and black laminae.	390-418 cm Brown clayey silt with some mottling and indistinct black laminae.	255-305 cm Reddish brown silty clay.
321-346 cm Very dark greyish brown silty clay with sandy layers.	218-228 cm Brown clay silt with some sand blebs.	306-324 cm Brown clay silt with mud clast and rare sand.	418-449 cm Dark gray silty clay with some sand, black laminae, and red flecks. Black o-rich bands with small sandy layer in	305-310 cm Reddish brown silty clay.

			medium between 419-427 cm.	
346-360 cm Reddish brown silty clay.	228 - 265 cm Reddish brown silty clay.	324-339 cm Dark gray silty clay, some sand, sand blebs, laminae, and black mottling.	449-487 cm Brown silty clay with black mottling, black flecks, and rare black laminae.	310-333 cm Brown sandy clay grading into silty clay with sand blebs.
360-381 cm Dark reddish brown silty clay with bioturbation at 370 cm.	265-271cm Very dark greyish brown silty clay with sand blebs.	339-351 cm Brown clayey silt with rare black flecks.	487-493 cm O-rich irregular bands between in dark grey clayey silt.	333 - 382 cm Reddish brown silty clay.
381-388 cm Very dark greyish brown silty clay with many sand blebs on top.	271 – 309 cm Very dark greyish brown silty clay with sand blebs and burrows.	351-411 cm Brown clayey silt with sand blebs, black mottling, black flecks, rare burrow, and indistinct black lamina. Presence of o-rich band between 401-406 cm.	490-540 cm Brown clayey silt with some black laminae and black flecks.	382-440 cm Very dark greyish brown silty clay with frequent sand blebs.
388-451 cm Reddish brown silty clay with rare sand blebs and bioturbation.	309-326 cm Dark brown silty clay.			440-458 cm Reddish brown silty clay with sand blebs at 450 cm.
451-488 cm Reddish brown silty clay with rare bioturbation and o-rich banding between 466-470 cm.	326 – 343 cm Very dark greyish brown silty clay with interbedded sand layers.			458-484 cm Dark gray silty clay with silty laminae and fine sand.
488-510 cm Very dark greyish brown silty clay with sand blebs.	343- 353 cm Dark brown silty clay.			484-500 cm Dark reddish brown silty clay with organic matter blebs.
	353-549 cm Brown silty clay with lots of bioturbation and sand blebs.			500-530 cm Dark reddish gray silty clay, minor black indistinct laminae, black flecks, and bioturbation.
	549-560 cm Brown silty clay, sand and mottling with o-rich black band between 549-554 cm.			528-533 cm Black o-rich blebs in medium grey, brown silty clay.
				530-539 cm Dark gray clayey silt with abundant black

				mottling and black flecks.
				539-575 cm Reddish brown clayey silt with gray and black mottling, black flecks, and bioturbation.

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92 **Table S3:** Bulk geochemical data and porewater ion summary (U, undetected).

Core	Depth (cmbsf)	TOC (wt.%)	TN (wt.%)	$\delta^{13}\text{C}_{\text{org}} (\text{‰})$	Ion ($\text{mmol}\cdot\text{L}^{-1}$)								
					DIC	SO_4^{2-}	NH_4^+	NO_2^-	NO_3^-	F^-	PO_4^{3-}	Fe^{2+}	Mn^{2+}
15	5	0.46	0.08	-21.50	0.17	27.77	0.29	0.04	0.10	0.02	7.02	-	0.04
	55	0.51	0.06	-	0.08	27.57	0.33	0.03	0.10	0.02	5.17	0.04	0.04
	155	0.25	0.07	-23.50	0.52	25.06	0.13	0.03	0.08	0.02	17.62	0.08	0.03
	240	0.24	0.04	-24.90	0.68	20.28	0.17	0.03	0.08	0.01	19.86	0.2	0.05
	333	0.48	0.04	-	-	-	-	-	-	-	-	-	-
	402	0.38	0.06	-	2.92	13.85	0.84	0.03	0.08	0.01	10.96	1.74	0.08
	471	0.30	0.03	-	-	-	-	-	-	-	-	-	-
	505	0.27	0.02	-23.80	3.10	12.10	0.98	0.03	0.08	0.02	-	-	0.06
	575	0.29	0.03	-	-	-	-	-	-	-	-	0.1	-
19	5	0.39	0.07	-21.20	0.06	27.17	0.34	0.04	0.08	0.02	21.23	-	0.06
	53	0.54	0.07	-	0.36	28.06	0.42	0.03	0.08	0.02	6.19	0.01	0.05
	155	0.34	0.04	-23.70	0.52	25.75	0.29	0.03	0.07	0.01	15.95	0.02	0.03
	185	0.30	0.03	-	0.74	24.77	0.41	0.03	0.07	0.01	15.31	-	0.03
	214	0.28	0.05	-	0.61	23.40	0.57	0.03	0.08	0.01	8.88	-	0.04
	289	0.58	0.07	-	1.37	20.72	0.65	0.03	0.07	0.01	11.23	0.06	0.05
	329	0.30	0.01	-	-	-	-	-	-	-	-	-	-
	390	0.28	0.04	-24.40	2.19	16.32	0.79	0.03	0.07	0.01	7.37	0.11	0.07
	430	0.29	0.05	-	2.40	14.28	0.88	0.03	0.07	0.01	-	-	0.09
	502	0.34	0.07	-	2.95	9.39	0.95	0.03	0.08	0.01	-	0.12	0.08
	556	0.29	0.06	-25.20	4.36	4.50	0.93	0.03	0.06	0.01	-	-	0.09
17	5	0.54	0.08	-22.40	1.08	28.11	0.40	0.07	0.15	0.02	15.58	-	0.15
	55	0.34	0.07	-	1.00	28.05	0.50	0.05	0.08	0.01	9.34	0.03	0.02
	105	0.46	0.07	-	-	-	-	-	-	-	15.51	-	0.04
	131	0.23	0.05	-22.60	-	-	-	-	-	-	-	-	0.06
	190	0.32	0.06	-	1.44	24.04	0.31	0.03	0.08	0.01	-	0.06	0.06
	260	0.35	0.05	-	2.92	22.78	0.44	0.03	0.08	0.01	13.16	0.1	0.12
	285	0.63	0.06	-23.50	2.37	21.58	0.62	0.03	0.07	0.01	5.36	-	0.06
	326	0.47	0.06	-	2.69	19.72	0.72	0.03	0.08	0.01	5.37	-	0.06
	406	0.30	0.07	-24.50	3.08	16.91	0.88	0.03	0.08	0.01	19.04	0.15	0.09
78	2	0.86	0.17	-40.10	0.06	28.72	0.25	0.07	0.17	0.17	0.07	0.00	0.07
	4	1.36	0.16	-	-	-	-	-	-	-	0.02	0.02	0.07
	6	0.79	0.14	-38.80	0.82	27.56	0.29	0.09	0.18	0.18	-	-	-
	8	0.61	0.12	-	-	-	-	-	-	-	U	0.00	U
	10	0.51	0.09	-	4.54	15.61	0.09	0.09	0.14	0.21	-	-	-
	12	0.54	0.10	-28.30	-	-	-	-	-	-	U	U	U
	14	0.36	0.07	-	10.13	4.84	0.44	0.06	0.13	0.12	-	-	-
	16	0.41	0.07	-	-	-	-	-	-	-	U	U	U

	18	0.32	0.07	-26.20	11.72	1.29	0.67	0.06	0.11	0.09	-	-	-
	20	0.42	0.07	-	-	-	-	-	-	-	U	U	U
14	5	0.49	0.06	-18.20	0.96	21.63	0.48	0.03	0.08	0.02	2.4	-	0.03
	55	0.66	0.09	-22.60	1.47	23.90	0.60	0.02	0.08	0.02	7.2	0.04	0.05
	135	0.56	0.07	-	0.24	26.99	0.43	0.03	0.09	0.02	9.5	0.05	0.07
	210	0.33	0.04	-23.80	1.10	25.87	0.60	0.03	0.08	0.02	8.8	-	0.05
	310	0.28	0.05	-	1.87	21.12	0.83	0.03	0.08	0.01	5.6	-	0.07
	360	0.32	0.03	-24.60	2.32	21.43	0.94	0.03	0.08	0.01	22.6	0.14	0.05
	410	0.34	0.06	-	-	-	-	-	-	-	-	-	-
	438	0.55	0.06	-24.30	1.77	17.68	1.13	0.03	0.08	0.01	-	-	0.1
	493	0.44	0.05	-	1.67	17.60	1.25	0.03	0.07	0.01	9.3	-	0.06
	535	0.42	0.03	-24.90	2.43	16.09	1.35	0.03	0.07	0.01	17.2	0.16	0.06
13	5	0.39	0.04	-21.60	0.65	26.94	0.50	0.03	0.09	0.02	8.8	-	0.1
	58	0.59	0.08	-	0.60	27.35	0.60	0.03	0.09	0.02	6.07	0.03	0.16
	190	0.43	0.05	-23.20	1.73	24.36	0.43	0.03	0.10	0.02	26.32	0.05	0.09
	255	0.34	0.04	-	1.90	23.36	0.59	0.03	0.08	0.02	11.18	0.09	0.08
	315	0.41	0.08	-	2.45	21.75	0.80	0.03	0.08	0.01	14.08	-	0.09
	420	0.74	0.06	-23.70	3.41	18.77	1.16	0.03	0.09	0.01	17.54	0.1	0.13
	468	0.34	0.04	-	3.28	16.00	1.24	0.03	0.08	0.01	-	0.16	0.18
	533	0.54	0.07	-23.20	4.53	14.38	1.28	0.03	0.08	0.01	-	-	0.07
	570	0.31	0.06	-24.00	4.81	13.26	1.26	0.03	0.07	0.01	-	-	0.09

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95 **Table S4:** Concentration of archaeal IPLs and CLs.

Core	Depth (cmbsf)	Concentration ($\mu\text{g g}^{-1}$)											
		GDGTs	OH-GDGTs	1G-GDGTs	1G-OH-GDGTs	2G-GDGTs	2G-OH-GDGTs	AR	OH-AR	1G-AR	2G-AR	PA-AR	PA-OH-AR
15	5	17.93	0.91	0.8	0.04	0.03	0.03	0.13	0.05	0.02	0	0.28	0
	55	8.06	0.57	0.22	0.02	0.01	0.02	0.05	0.02	0	0	0.35	0
	155	14.11	0.9	0.61	0.02	0	0.03	0.13	0.16	0.02	0	0.16	0
	240	4.4	0.44	0.45	0.02	0	0.01	0.2	0.08	0.08	0	0.21	0
	290	6.49	0.42	0.3	0.01	0.03	0.05	0.12	0.09	0.02	0	0.77	0
	402	7.63	0.65	0.38	0.01	0.02	0.03	0.22	0.12	0.05	0	0.34	0
	505	4.87	0.49	0.41	0.02	0.03	0.06	0.2	0.1	0.06	0	0.54	0
19	5	12.97	0.68	0.94	0.04	0.03	0.06	0.24	0.23	0.06	0	0.06	0
	53	9.44	0.86	0.33	0.02	0.03	0.04	0.11	0.09	0	0	0.51	0
	155	7.36	0.57	0.23	0	0.02	0.03	0.08	0.1	0.02	0	0.12	0
	185	10.35	0.86	0.48	0.02	0.03	0.05	0.12	0.08	0.01	0	0	0
	214	4.23	0.36	0.29	0.01	0.02	0.03	0.15	0.07	0.05	0.01	0.01	0
	289	3.89	0.34	0.19	0.01	0.01	0.01	0.11	0.08	0.02	0	0.01	0
	390	8.63	0.86	0.65	0.03	0.02	0.05	0.44	0.04	0.12	0	0.65	0
	430	4.65	0.42	0.23	0	0.02	0.02	0.18	0.1	0.07	0.02	0.3	0
	502	3.77	0.41	0.49	0.03	0.02	0.04	0.31	0.14	0.13	0	0.49	0
	556	3.98	0.44	0.37	0.02	0.01	0.01	0.39	0.14	0.11	0	0.19	0
17	5	16.93	0.97	0.42	0.04	0.04	0.07	0.12	0.14	0.01	0	0.09	0
	55	19.39	1.39	0.37	0.05	0.06	0.07	0.12	0.06	0	0	0.59	0
	105	6.95	0.72	0.13	0.01	0.01	0.02	0.07	0.07	0.01	0	0.23	0
	131	14.86	1.03	0.27	0.01	0.03	0.04	0.07	0.07	0	0	0.27	0
	190	8.35	0.72	0.43	0.02	0.02	0.05	0.1	0.04	0.03	0	0.33	0
	260	7.27	0.52	0.42	0.03	0.03	0.04	0.14	0.06	0.01	0	0.49	0
	285	5.65	0.39	0.21	0.01	0	0.01	0.11	0.06	0.01	0	0.47	0
	326	6.03	0.33	0.19	0.01	0	0	0.13	0.06	0.03	0	0.25	0
	406	7.15	0.7	0.37	0.02	0	0	0.19	0.12	0.06	0	0.48	0
78	0	3.04	0.45	0.37	0.02	0	0	0.04	0	0.07	0.01	0	0
	2	2.33	0.37	0.27	0.02	0.1	0.01	0.21	0	0.06	0.03	0.02	0
	4	2.5	0.41	0.17	0.01	0.06	0.01	0.4	0	0.05	0.03	0.01	0
	6	1.93	0.36	0.1	0.01	0.09	0.01	0.51	0	0.05	0.03	0.02	0
	8	2.53	0.51	0.1	0.01	0.06	0.01	0.43	0	0.03	0.01	0.01	0
	10	0.43	0.05	0.02	0	0.01	0	0.38	0	0.07	0.03	0	0
	12	0.82	0.19	0.06	0.01	0.01	0	0.37	0	0.05	0.02	0	0
	14	0.9	0.17	0.07	0	0	0	0.12	0	0.02	0.01	0	0
	16	1.29	0.23	0.09	0.01	0	0	0.17	0	0.04	0.01	0	0
	18	1.1	0.18	0.07	0.01	0	0	0.07	0	0.01	0	0	0
14	5	19.47	1.01	0.42	0.01	0	0.02	0.08	0	0.02	0	0.36	0.1

	55	4.38	1.57	0.49	0.01	0.01	0.03	0.11	0.1	0.05	0	0.15	0.26
	135	9.56	0.65	0.25	0.01	0.02	0.04	0.04	0.04	0	0	0.26	0.02
	210	9.39	0.62	0.46	0.01	0.01	0.03	0.04	0.07	0.03	0	0.33	0.15
	310	4.89	0.28	0.33	0.01	0	0.02	0.06	0.1	0.02	0	0.37	0.08
	360	4.53	0.29	0.24	0.01	0	0.01	0.05	0.09	0.03	0	0.29	0.15
	438	7.19	0.58	0.39	0.01	0.02	0.03	0.15	0.13	0.03	0	0.9	0.03
	493	6.88	0.65	0.43	0.02	0	0.02	0.24	0.23	0.13	0.01	0.48	0.14
	535	3.91	0.33	0.31	0	0	0.01	0.13	0.15	0.1	0.02	0.32	0.17
13	5	26.77	1.31	1.38	0.07	0.01	0.09	0.15	0.13	0.05	0	0.24	0
	58	15.14	1.1	0.86	0.03	0.01	0.06	0.05	0.03	0	0	0.01	0
	190	22.94	1.61	0.6	0.04	0	0.06	0.12	0.1	0.01	0	0.65	0
	255	6.77	0.5	0.39	0.02	0	0.02	0.23	0.26	0.15	0	0.35	0.06
	315	6.05	0.44	0.31	0	0	0.01	0.2	0.24	0.1	0	0.41	0.04
	420	3.53	0.22	0.3	0.01	0	0.01	0.14	0.12	0.05	0	0.36	0.1
	468	9.27	0.7	0.37	0.02	0.01	0.03	0.05	0.04	0	0	0.23	0
	533	8.81	0.56	0.46	0.02	0	0.02	0.1	0.18	0.02	0	1.05	0.04
	570	6.57	0.23	0.47	0.03	0.01	0.02	0.06	0.09	0.04	0	0.12	0

97 **Table S5:** Concentration of *br*GDGTs and photosynthetic pigments.

Core	Depth (cmbsf)	Concentration ($\mu\text{g g}^{-1}$)				
		<i>br</i> GDGTs	Chl <i>a</i>	OH- Chl <i>a</i>	Pheo <i>a</i>	OH-Pheo <i>a</i>
15	5	0.92	1.3	0.23	0.13	0.12
	55	0.54	0.64	0.07	0.05	0.03
	155	1.1	0	0	0	0
	240	0.99	0.91	0.03	0.1	0.01
	290	1.21	0.67	0.05	0.06	0.03
	402	1.07	1.24	0.06	0.13	0.05
	505	0.56	1.21	0.07	0.1	0.05
19	5	0.74	0.9	0.06	0	0.05
	53	0.58	0.02	0	0	0
	155	0.49	0.2	0	0.05	0.02
	185	0.56	0.59	0	0.09	0.06
	214	0.52	0	0	0.44	0.03
	289	0.67	0.07	0	0.03	0.02
	390	1.26	0	0	0	0
	430	0.79	0.57	0	0.05	0.03
	502	1.02	0.25	0	0.02	0.04
	556	0.97	0	0	0.06	0.02
17	5	0.81	1.13	0.05	0.14	0.05
	55	0.83	0.85	0	0.16	0.05
	105	0.58	0.76	0.02	0.12	0.04
	131	0.62	0.67	0.07	0	0.05
	190	0.57	0.34	0	0.05	0.02
	260	0.86	0	0	0.05	0.03
	285	1.06	0.2	0	0.05	0.01
	326	1.16	0.25	0	0.04	0.02
	406	0.82	0	0	0.05	0.03
78	0	0.41	0	0	0	0
	2	0.35	0	0	0	0
	4	0.31	0	0	0	0
	6	0.34	0	0	0	0
	8	0.53	0	0	0	0
	10	0.1	0	0	0	0
	12	0.29	0	0	0	0
	14	0.3	0	0	0	0
	16	0.65	0	0	0	0
	18	0.32	0	0	0	0
14	5	0.54	2.31	0	0.14	0.03
	55	0.36	0	0	0.06	0
	135	0.38	0	0	0.06	0.03
	210	0.66	1.41	0.04	0.07	0.02

	310	0.64	0.94	0	0.04	0.02
	360	0.6	0	0.02	0.04	0.01
	438	0.89	1.12	0	0.08	0.05
	493	1.14	1.12	0	0.07	0.02
	535	0.47	1.15	0.03	0.08	0.03
13	5	0.08	0	0.2	0	0.2
	58	0.03	0	0.02	0.02	0.02
	190	0.04	1.14	0	0.16	0.06
	255	0.26	1.27	0	0.1	0.02
	315	0.46	0.32	0	0.07	0
	420	0.02	0	0.02	0	0.01
	468	0.1	0.59	0	0.07	0.03
	533	0.15	0	0	0.08	0.01
	570	0.05	0	0	0.05	0

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99 **Table S6:** Concentration of MKs.

Core	Depth (cmbsf)	Concentration ($\mu\text{g g}^{-1}$)												
		MK-4:1	MK-4:2	MK-4:3	MK-4:4	MK-6:0	MK-6:1	MK-6:2	MK-6:3	MK-6:4	MK-6:5	MK-6:6	MK-7	MK-10
15	5	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0.26
	55	0	0.01	0.24	0	0	0	0	0	0	0	0	0.01	0.61
	155	0.01	0.03	1.73	0	0	0	0	0	0	0	0	0	0.11
	240	0.01	0.06	1.15	0	0	0.01	0	0	0	0	0	0.37	0.04
	290	0	0.02	0.35	0	0	0	0	0	0	0	0	0.05	0.09
	402	0.01	0.01	0.66	0	0	0	0	0	0	0	0	0.18	0.26
	510	0	0	0.69	0	0	0	0	0	0	0	0	0.23	0.07
19	5	0	0	0	0	0	0	0	0	0	0	0	0.21	0.23
	53	0.01	0	0	0	0	0	0	0	0	0	0	0.03	0.8
	155	0.02	0.01	0.05	0	0	0	0	0	0	0	0	0.04	0.43
	185	0.04	0	0	0	0	0.02	0.02	0.09	0	0	0.01	0.04	0.1
	214	0	0	0.02	0	0	0.03	0.03	0.03	0	0	0.01	0.11	0.1
	289	0.01	0.01	0.01	0	0	0	0	0	0	0	0	0.05	0.27
	390	0.07	0.01	0.05	0	0	0	0	0	0.01	0.01	0	0.4	0.33
	430	0	0	0	0	0	0	0	0	0	0	0	0.21	0.18
	502	0.01	0	0	0	0	0	0	0	0	0.01	0.01	0.36	0.36
	556	0.01	0	0	0	0	0	0	0	0	0	0	0.28	0.41
17	5	0	0.01	1.15	0	0	0	0	0	0	0	0	0	0.3
	55	0	0	0	0	0	0	0	0	0	0	0	0.02	0.63
	105	0	0	0	0.01	0	0	0	0	0	0	0	0.02	0.74
	131	0	0.03	1.24	0	0	0	0	0	0	0	0	0.02	0.2
	190	0.02	0	0.01	0.02	0	0	0	0	0	0	0	0.08	0.32
	260	0	0	0	0	0	0	0	0	0	0	0	0	0
	285	0.01	0.01	0.02	0	0	0	0	0	0	0	0	0.03	0.47
	326	0	0	0	0.02	0	0	0	0	0	0	0	0.07	0.29
	406	0.01	0	0	0	0	0	0	0	0	0	0	0.22	0.28
14	5	0.16	1.66	0.12		2.76	0.13	0.18	0.05	0	0.27	0	0.04	0.65
	55	0.35	0.44	0.32	0	1.69	0.19	0.14	0.12	0	0.14	0	0.05	0.04
	135	0.09	0.16	0.11	0	1.33	0.12	0.17	0.07	0	0.1	0	0.02	0.05
	210	0.1	0.34	0.09	0	1.53	0.05	0.24	0.08	0	0.03	0	0.06	0.03
	310	0.08	0.09	0.03	0	1.02	0.09	0.13	0.1	0.06	0.06	0	0.07	0.05
	360	0.09	0.06	0.03	0	0.81	0.07	0.15	0.09	0.07	0.06	0	0.04	0.08
	438	0.26	0.05	0.07	0	0.85	0.19	0.24	0.16	0.11	0.09	0	0.08	0.04
	493	0.49	0.02	0.43	0	1.19	0.14	0.24	0.28	0	0.14	0	0.15	0.32
	535	0.22	0.02	0.06	0	1.18	0.13	0.13	0.16	0	0.14	0	0.18	0.09
13	5	0.32	0.1	0.13	0	0	0	0	0	0	0	0	0.6	1.47
	58	0	0	0	0	0	0	0	0	0	0	0	0.02	0.09
	190	0.15	0.06	0.05	0	1.31	0.05	0.35	0.07	0.08	0.22	0	0.02	1.78

255	0.47	0.07	0.2	0	1.38	0.12	0.55	0	0	0.17	0	0.18	0.37
315	0.45	0.06	0.19	0	1.05	0.11	0.52	0	0	0.1	0	0.14	0.15
420	0.37	0.08	0.32	0	0.81	0.09	0.13	0.11	0	0.08	0	0.18	0.1
468	0.16	0.01	0.02	0	0.84	0.04	0.12	0	0.06	0.06	0	0.02	0.43
533	0.31	0.07	0.12	0	1.28	0.12	0.4	0	0	0	0	0.05	0.52
570	0	0	0.03	0	0	0	0	0	0	0	0	0	0.01

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108