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*Supplement of*

## **Observations of deep-sea fishes and mobile scavengers from the abyssal DISCOL experimental mining area**

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707 Supplementary Table 1. Results of two way PERMANOVA test of fish density across time (0,  
 708 0.5, 3, 7 and 26 years) and habitat types (reference, unploughed and ploughed) and results for the  
 709 pairwise tests of the interaction between habitat and time (tests between habitats within the factor  
 710 time). Significant results are in bold text.

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Source	df	SS	MS	Pseudo-F	p value	unique permutations
<b>Habitat type</b>	<b>2</b>	<b>2708</b>	<b>1354</b>	<b>6.3758</b>	<b>0.0031</b>	<b>9950</b>
<b>Time</b>	<b>5</b>	<b>9479</b>	<b>1896</b>	<b>8.9272</b>	<b>0.0001</b>	<b>9950</b>
<b>Habitat x time</b>	<b>7</b>	<b>3515</b>	<b>502.1</b>	<b>2.3645</b>	<b>0.028</b>	<b>9931</b>
Residual	72	15290	212.4			
Total	86	30970				

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time (yrs)	Habitat type compared	t	p value	unique permutations
<b>0</b>	<b>Plough, Unploughed</b>	<b>2.5707</b>	<b>0.0473</b>	<b>16</b>
0.5	Plough, Reference	3.8252	0.1067	4
<b>0.5</b>	<b>Plough, Unploughed</b>	<b>2.3292</b>	<b>0.0576</b>	<b>15</b>
0.5	Reference, Unploughed	0.2528	0.7364	15
<b>3</b>	<b>Plough, Reference</b>	<b>14.998</b>	<b>0.0294</b>	<b>15</b>
<b>3</b>	<b>Plough, Unploughed</b>	<b>3.3832</b>	<b>0.0279</b>	<b>15</b>
<b>3</b>	<b>Reference, Unploughed</b>	<b>2.5093</b>	<b>0.0520</b>	<b>35</b>
7	Plough, Reference	0.19262	0.9034	31
<b>7</b>	<b>Plough, Unploughed</b>	<b>2.5538</b>	<b>0.0573</b>	<b>25</b>
<b>7</b>	<b>Reference, Unploughed</b>	<b>2.6771</b>	<b>0.0394</b>	<b>91</b>
26	Plough, Reference	0.15018	0.8839	9724
26	Plough, Unploughed	1.4837	0.1554	9803
26	Reference, Unploughed	1.3193	0.1910	9832

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715 Supplementary Table 2. Time of first arrival (Tarr) and persistence (Pers.) or the proportion of  
 716 images in which a taxon was observed for each baited camera deployment.

Deployment	FBOS003		FBOS004		FBOS005		FBOS006		FBOS007		FBOS013		average
	Pers.	T <sub>arr</sub>	Pers.	T <sub>arr</sub>	Pers.	T <sub>arr</sub>	Pers.	T <sub>arr</sub>	Pers.	T <sub>arr</sub>	Pers.	T <sub>arr</sub>	Pers.
<b>Fishes</b>													
<i>Barathrites iris</i>	0.4%	5:38	3.0%	4:54			0.6%	9:34	0.3%	15:38			1.1%
<i>Bassozetus cf nasus</i>	13%	39:20	4.9%	10:48			1.3%	18:16			21%	2:31	10%
<i>Coryphaenoides armatus/yaquinae</i>	1.0%	10:11	7.4%	1:49	2.3%	8:05	1.2%	12:40	0.1%	2:17	0.8%	2:52	2.1%
<i>Leucicorus</i> sp.					0.4%	41:40							0.4%
<i>Pachycara</i> spp.	87%	2:07	21%	4:23	35%	11:55	32%	3:00	74%	5:53	80%	6:08	55%
Synphobranchidae	2.5%	37:02	2.9%	3:37	11%	23:15			0.1%	17:23	7.4%	3:13	4.8%
<b>Crustaceans</b>													
<i>Hymenopeneus nereus</i>	65%	1:23	85%	1:07	40%	4:00	62%	0:54	39%	0:39	89%	0:21	63%
Total Penaeid shrimp	6.9%	0:11	20%	1:35	6.0%	5:55	21%	1:28	16%	0:18	24%	0:21	16%
<i>Cerataspis monstrosus</i>	0.7%	4:57	0.4%	15:38			1.0%	1:28	0.4%	40:01			0.6%
<i>Benthiscymus</i> sp.	2.2%	15:02	3.3%	2:17	0.7%	8:00	4.4%	6:16	4.0%	0:46	3.5%	2:17	3.0%
<i>Munnidopsis</i> sp.			11%	10:16	9.4%	35:10					7.2%	36:35	9.3%
Munnopsidae	4.4%	11:44	1.6%	39:02	4.4%	0:45	0.4%	12:12	1.0%	2:20			2.4%
Mysidae			0.4%	3:41	1.0%	10:55	0.3%	19:46					0.6%
<i>Probeebei mirabilis</i>	1.8%	0:22	32%	0:00	27%	2:20	12%	0:20	30%	0:11	69%	0:04	29%
<b>Other taxa</b>													
Octopoda	0.3%	10:55			2.3%	23:25							1.3%
Ophiuroidea	0.7%	21:55							47%	4:37	7.8%	1:31	19%

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