Supplementary Material

Appendix 1. List of occurrences in the main excavation

Unit 1

Bed 1

Layer	Taxonomy	Number of specimens, remarks
1	*Dendrocystites barrandei* Bather, 1913	99x complete specimens
1	*Echinosphaerites* sp.	2x
1	*Homocystites* sp.	1x plate
1	Ichnofossils indet.	2x (1x black one)
1	*Planolites* isp.	1x
1	*Prionocheilus mendax* (Vaněk, 1965)	1x cephalon, 1x part of thorax
1	Orthida indet.	1x
1	*Aegiromena* cf. *praecursor* (Havlíček, 1952)	1x
1	*Praenucula* sp.	1x with *Arachnostega* isp. on the internal right valve
1	*Skolithos* isp.	1x

Bed 2

Layer	Taxonomy	Number of specimens, remarks
2b	*Arachnostega* isp.	1x
2b	*Aristocystites* sp.	1x isolated plates
2b	*Bergaueria*? isp.	1x
2b	*Dendrocystites barrandei* Bather, 1913	4x fragments + 3x complete specimens
2b	*Echinosphaerites infaustus* Barrande, 1887	1x
2b	*Macrocystella* sp.	1x plate
2b	*Planolites* isp.	1x
2b	*Selenopeltis*	1x pleura with spine
2a	*Archaeoconularia* sp.	1x long fragment of shell
2a	*Blyskavomena blyskavensis* (Havlíček, 1967)	1x
2a	*Drabovia redux* (Barrande, 1848)	1x with encrusting bryozoans
2a	*Hirnantia* cf. *ulrichi* Havlíček, 1951	1x
2a	*Drabovia* sp.	1x
2a	*Cekovia*? sp.	1x
2a	Cephalopoda + juvenile trilobite (*Cekovia* ?)	1x
2a	Cephalopoda indet + *Arachnostega* isp.	1x
2a	Cephalopoda indet.	2x fragment
2a	Crinoidea indet.	1x isolated columnals
2a	*Dendrocystites barrandei* Bather, 1913	11x disarticulated, 112 complete specimens
2a	*Echinosphaerites infaustus* Barrande, 1887	1x
2a	Ichnofossils	1x
2a	*Macrocystella* sp.	1x plate, 1x stem
2a	*Mespilocystites bohemicus* Barrande, 1887	1x
2a	Ophiuroidea nov. gen.	9x
2a	*Primaspis*? sp.	1x incomplete thorax
2a	*Prionocheilus mendax* (Vaněk, 1965)	1x pygidium, 1x cheek
2a	*Rhombifera?* sp.	1x
2a	*Sphenotallus sp.*	1x
2 indet.	*Vysocania* cf. *moraveci* Pereira et al., 2017	1x cranidium filled by *Tomaculum* sp.
2 indet.	*Vysocania* cf. *moraveci* Pereira et al., 2017	1x incomplete holaspid cephalon
2 indet.	*Bicuspina multicostellata* Havlíček, 1950	1x
2 indet.	*Archeoconularia sp.*	1x

Bed 3 (ichnofossils abundant in both layers)

Layer	Taxonomy	Number of specimens, remarks
3b	*Aristocystites* sp.	3x
3b	*Archaeoconularia* sp.	1x almost complete shell
3b	Orthida indet.	1x
3b	*Cekovia* cf. *transfuga* (Barrande, 1852)	1x incomplete specimen
3b	Crinoidea indet.	1x
3b	*Dendrocystites barrandei* Bather, 1913	45x complete specimens, >15 fragments
3b	Edrioasteroidea indet.	1x
3b	*Echinosphaerites infaustus* Barrande, 1887	1x
3b	*Macrocystella* sp.	1x stem
3b	Cephalopoda indet. + *bryozoan*s	2x incomplete shells encrusted by bryozoans
3b	*Mespilocystites bohemicus* Barrande, 1887	1x theca
3b	*Planolites* isp.	1x
3b	Rhombifera indet.	1x part of stem
3b	*Tropidodiscus*? sp.	1x
3a	*Archaeoconularia* sp.	1x complete + 1x fragmented specimens
3a	*Aristocystites* sp.	2x complete specimens
3a	*Aspidocarpus* sp.	1x complete specimen
3a	Bryozoa indet.	1x fragment of a colony
3a	*Cekovia* sp. + *Arachnostega isp.*	1x
3a	Cephalopoda indet.	1x fragment
3a	*Cekovia* cf. *transfuga* (Barrande, 1852)	1x incomplete specimen
3a	Cephalopoda indet. + *Ceramopora vadosa* Počta, 1894	2x incomplete shells encrusted by bryozoans
3a	Cephalopoda indet.	1x incomplete shell
3a	*Mespilocystites* sp.	1x theca
3a	Cystoidea indet.	1x
3a	*Dendrocystites barrandei* Bather, 1913	12x disarticulated; 61 complete specimens
3a	*Drabovia* sp.	2x
3a	*Echinosphaerites infaustus* Barrande, 1887	2x theca
3a	*Homocystites* sp.	2x plates
3a	*Macrocystella* sp.	2x isolated plate; 3x part of stem
3a	*Mespilocystites bohemicus* Barrande, 1887	8x theca
3a	Ophiuroidea nov. gen.	1x middle part of a big specimen
3a	*Planolites* isp.	1x
3a	*Prionocheilus mendax* (Vaněk, 1965)	2x pygidium
3a	*Rhombifera bohemica* Barrande, 1867	1x, with indeterminable ichnofossil
3a	*Rusophycus* sp.	1x
3a	*Vysocania* cf. *moraveci* Pereira et al., 2017	1x cephalon

Bed 4

Layer	Taxonomy	Number of specimens, remarks
4	*Aegiromena praecursor* (Havlíček, 1952)	1x
4	*Aristocystites* sp.	2x plates, 4x complete specimens
4	*Cekovia* sp.	1x entire specimen, 1x pygidium
4	Crinoidea indet.	1x fragment of crinoid stem
4	*Dendrocystites barrandei* Bather, 1913	30x complete specimens + 5x fragments
4	Echinodermata indet.	1x isolated plate – indeterminable
4	Psammosphaeridae	1x
4	Ichnofossils	present
4	*Mespilocystites* sp.	1x
4	Orthida indet.	10x poorly preserved remains

Unit 2

Bed 5

Layer	Taxonomy	Number of specimens, remarks
5e	*Aristocystites* sp.	1x theca
5e	*Dendrocystites* sp.	1x specimen + 1x fragment, 6x complete specimens
5e	*Sphenothallus* sp.	1x specimen
5d	Cephalopoda indet	1x
5d	Cystoidea?	3x specimens
5d	*Dendrocystites barrandei* Bather, 1913	12x articulated and 6x disarticulated specimens
5d	*Drabovinella* sp.	1x
5d	Ichnofossils	present
5d	*Rafanoglossa*? sp.	1x
5d	*Macrocystella*	1x specimen
5d	*Mespilocystites bohemicus* Barrande, 1887	1x theca
5c	*Archaeoconularia* sp.	1x fragment of theca
5c	*Prionocheilus* sp.	1x incomplete thorax
5c	*Aristocystites* sp.	1x
5c	Orthida indet.	3x
5c	*Dendrocystites barrandei* Bather, 1913	2x isolated plates + 1x complete specimen
5c	*Echinosphaerites infaustus* Barrande, 1887	1x theca
5c	*Mespilocystites bohemicus* Barrande, 1887	1x theca
5c	*Planolites* isp. + indeterminable ichnofossil	2x
5b	Ichnofossils	present
5b	*Hirnantia* cf. *ulrichi Havlíček, 1951*	1x
5a	*Archaeoconularia* sp.	2x
5a	*Dendrocystites barrandei* Bather, 1913	3x fragments + 2x complete
5a	Ichnofossils	present
5a	*Rafanoglossa*? *sp.*	1x
5 indet.	*Syringomorpha* isp.	1x
5 indet.	*Teichichnus* isp.	1x

Bed 6

Layer	Taxonomy	Number of specimens, remarks
6c	*Aristocystites* sp.	1x fragment, 1x complete theca + isolated plates
6c	*Dendrocystites barrandei* Bather, 1913	39x complete, 14x disarticulated specimens
6c	Edriasteroidea indet.	2x
6c	*Mespilocystites bohemicus* Barrande, 1887	1x isolated plate, 1x complete specimen
6c	Ophiuroidea nov. gen.	1x complete, 1x disarticulated specimens
6b	*Aristocystites* sp.	1x plate
6b	*Dendrocystites barrandei* Bather, 1913	16x complete, 4x + full lens of disarticulated specimens
6b	Echinodermata indet.	1x partial stem
6b	*Helmintopsis* isp.	2x
6b	*Homocystites*? sp.	1x proximal part of stem
6b	*Selenopeltis* cf. *buchi* (Barrande, 1846)	1x pleura
6a	*Dendrocystites barrandei* Bather, 1913	2x fragments, 3 complete specimens
6a	*Archaeoconularia* sp.	1x fragment
6a	Echinodermata indet.	isolated plates
6a	Ichnofossils	present

Unit 3

Bed 7

Layer	Taxonomy	Number of specimens, remarks
7e	*Dendrocystites barrandei* Bather, 1913	3x complete, 3x slightly disarticulated specimens, numerous fragments
7e	*Cekovia ?* sp.	1 x incomplete cephalon filled by organic debris
7d	*Aristocystites* sp.	several plates
7d	*Dendrocystites barrandei* Bather, 1913	26x specimens
7d	*Homocystites* sp.	1x plate
7d	Ophiuroidea nov. gen.	3x incomplete specimens
7c	No fossils	no fossils
7b	*Dendrocystites* sp.	2x disarticulated specimens
7b	*Mespilocystites bohemicus* Barrande, 1887	1x theca
7a	Cephalopoda indet.	1x incomplete shell
7a	*Cekovia* sp. + *Arachnostega* isp.	1x incomplete cephalon
7a	Cephalopoda indet., *Arachnostega* isp. & *Conchicolites* sp.	on the inner surface *Arachnostega,* on the outward side *Conchicolites*
7a	Crinoid columnals	isolated columnals
7a	*Dendrocystites barrandei* Bather, 1913	6x complete, 8x + big lens of slightly disarticulated specimens
7a	Diploporita indet.	1x plate
7a	*Drabovia*? sp.	1x shell
7a	Edrioasteroidea indet.	1x disarticulated specimen
7a	*Macrocystella*? sp.	1x stem

Bed 8

Layer	Taxonomy	Number of specimens, remarks
8b	*Aristocystites* sp.	3x disarticulated plates
8b	*Dendrocystites barrandei* Bather, 1913	1x complete
8b	Ichnofossils	present
8b	Ophiuroidea nov. gen.	2x very small (juvenile?) specimens
8a	Crinoidea indet.	isolated columnals
8a	*Dendrocystites barrandei* Bather, 1913	1x complete + 3x disarticulated specimens
8a	*Homocystites* sp.	1x plate
8a	*Macrocystella* sp.	1x plate
8a	Ophiuroidea nov. gen.	1x small specimen

Rock debris gathered from the measured excavation, impossible to be attributed to a specific layer (not included in the analyses)

Layer	Taxonomy	Number of specimens, remarks
rock debris from the measured excavation	*Bicuspina multicostellata* Havlíček, 1950	2x
	Gelidorthis gemina Havlíček, 1977	1x
	Praenucula sp.	1x with *Arachnostega* isp.
	Nonorios pater (Barrande in Perner, 1903)	1x
	Conchicolites confertus (Barrande, 1867) on ?bivalve	1x
	"*Orthoceras*" sp. + encrusting bryozoans	1x
	Cekovia cf. *transfuga* (Barrande, 1852)	1x incomplete, dorsally flattened specimen
	Cekovia sp.	4x complete + many fragments
	Eccoptochile sp.	1x cephalon
	Eccoptochiloides sp.	3x complete
	Prionocheilus mendax (Vaněk, 1965)	12x complete from rock debris
	Selenopeltis sp.	1x complete, 1x thorax from rock debris
	Vysocania cf. *moraveci* Pereira et al., 2017	3x complete + several fragments
	Anatifopsis sp.	4x complete specimens
	Caleidocrinus multiramus	1x almost complete specimen (broken stem)
	Echinosphaerites infaustus	1x complete theca
	Edrioasteroidea indet.	1x incomplete specimen
	Glaphocystis cf. *globulus* Chauvel 1966	1x incomplete theca
	Hemicystites sp.	25x articulated specimens
	Hexedriocystis sp.	1x incomplete specimen
	Mespilocystites bohemicus Barrande, 1887	1x incomplete theca
	Rhombifera bohemica Barrande, 1867	1x incomplete theca
	Thoralicarpus prokopi Lefebvre et al., 2022	1x complete specimen
	Arenicolites isp.	1x
	Zoophycos isp.	1x

Appendix 2. Abundance matrix at the generic level

Taxonomy	1	2a	2b	3a	3b	4	5a	5b	5c	5d	5e	6a	6b	6c	7a	7b	7c	7d	7e	8a	8b
Cekovia		1		2	1	1(1)									(1)				(1)		
Primaspis		1																			
Prionocheilus	1	1		2					1												
Selenopeltis			1										1								
Stenoparia				(1)																	
Vysocania		(2)		(1)																	
Rafanoglossa							(1)														
Drabovia		2		2											(1)						
Drabovinella										(1)											
Hirnantia		1						(1)													
Orthida	1(1)				(1)	(10)			(3)												
Aegiromena	1					1															
Bicuspina		1																			
Blyskavomena		1																			
Bryozoa_indet				1	2																
Ceramopora				1																	
Archaeoconularia		(2)		(2)			(2)		(1)			(1)									
Sphenothallus		1									1										
Mespilocystites		1		8	1	1			1	1				1(1)		1					
Crinoid stems		(1)			(1)	(1)									(1)					(1)	
Aristocystites			(1)	2	3	4(1)			1		1		1	1(1)				(1)			(1)
Edrioasteroidea					1									2	1						
Ophiuroidea nov. gen.		9		1										1(1)				3		1	2
Echinosphaerites	2	1	1	3	1				1	3											
Homocystites	(1)			(2)									(3)					(1)		(1)	
Macrocystella		(1)	(1)	(3)	(1)					(1)					(1)					(1)	
Rhombifera		1		1	1																
Dendrocystites	99	112 (11)	3 (4)	61 (12)	45 (15)	30 (5)	2 (3)		1 (1)	12 (6)	7(1)	3 (2)	16 (5)	39 (14)	6 (8)	(2)		26	3 (3)	1 (3)	1 (1)
Aspidocarpus				1																	
Psammosphaeridae						1															
Praenucula	1																				
Orthoceras		4		4	2					1					2						
Tropididiscus					1																
Conchicolites															1						

Brackets indicate the number of incomplete specimens.

Appendix 3. Results of the statistical tests

Tests of differences between medians (Kruskal-Wallis) and variances (Levene) for the whole assemblage

Fragmentation	**Units**	**Facies**	**Granulometry**
Kruskal-Wallis' test (*p*)	0.06643	1	0.2058
Levene's test (*p*)	0.868	0.7678	0.9972

Taxonomic richness	**Units**	**Facies**	**Granulometry**
Kruskal-Wallis' test (*p*)	**0.01292**	**0.02189**	0.07563
Levene's test (*p*)	**0.006067**	0.2663	0.638

Pairwise Mann-Whitney test

Taxonomic richness	**U1**	**U2**	**U3**
U1			
U2	**0.009266**		
U3	**0.01937**	0.9479	

Pairwise Mann-Whitney test

Taxonomic richness	**F1**	**F2**
F1		
F2	**0.02516**	

Abundance	**Units**	**Facies**	**Granulometry**
Kruskal-Wallis' test (*p*)	**0.01155**	**0.04697**	**0.04138**
Levene's test (*p*)	**0.02795**	0.1187	0.3477

Pairwise Mann-Whitney test

Abundance	**U1**	**U2**	**U3**
U1			
U2	**0.01396**		
U3	**0.01307**	0,5177	

Pairwise Mann-Whitney test

Abundance	**sand**	**mica**	**<64mu**
sand			
mica	0.6019		
<64mu	**0.01558**	0.08705	

Pairwise Mann-Whitney test

Abundance	**F1**	**F2**
F1		
F2	**0.04247**	

Dominance index	**Units**	**Facies**	**Granulometry**
Kruskal-Wallis' test (*p*)	0.6253	0.3711	**0.005901**
Levene's test (*p*)	0.9176	0.7916	0.4704

Pairwise Mann-Whitney test

Dominance index	**sand**	**mica**	**<64mu**
sand			
mica	**0.003167**		
<64mu	0.0508	0.5083	

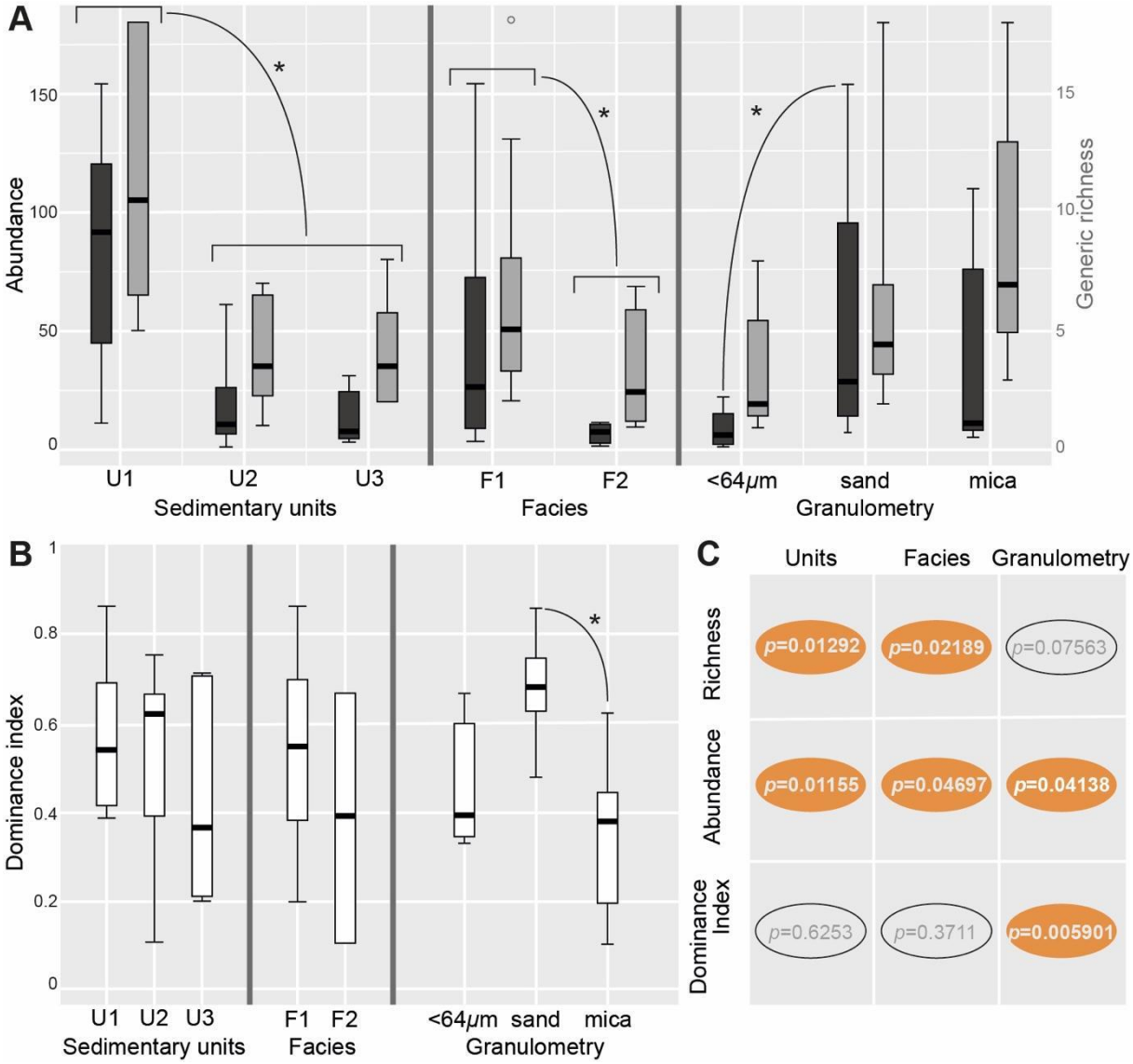

Figure S1. A-B. Boxplots of generic richness, abundance (A) and dominance index (B) in function of tested categories. C. Results of the Kruskal-Wallis test.

Tests of differences between medians (Kruskal-Wallis) and variances (Levene) for the non-allochthonous assemblage

Taxonomic richness	**Units**	**Facies**	**Granulometry**
Kruskal-Wallis' test (*p*)	**0.01616**	0.2909	0.1353
Levene's test (*p*)	**0.01584**	0.3143	0.1822

Pairwise Mann-Whitney test

Taxonomic richness	**U1**	**U2**	**U3**
U1			
U2	**0.02546**		
U3	**0.01413**	0.3858	

Abundance	**Units**	**Facies**	**Granulometry**
Kruskal-Wallis' test (*p*)	**0.01197**	0.07185	**0.04492**
Levene's test (*p*)	**0.008257**	0.1165	0.2367

Pairwise Mann-Whitney test

Abundance	U1	U2	U3
U1			
U2	**0.02**		
U3	**0.01291**	0.3297	

Pairwise Mann-Whitney test

Abundance	sand	mica	<64mu
sand			
mica	0.4175		
<64mu	**0.01529**	0.1417	

Dominance index	Units	Facies	Granulometry
Kruskal-Wallis' test (*p*)	0.8093	0.4403	**0.02843**
Levene's test (*p*)	0.2184	0.607	0.4872

Pairwise Mann-Whitney test

Dominance index	sand	mica	<64mu
sand			
mica	**0.006488**		
<64mu	0.3539	0.8197	

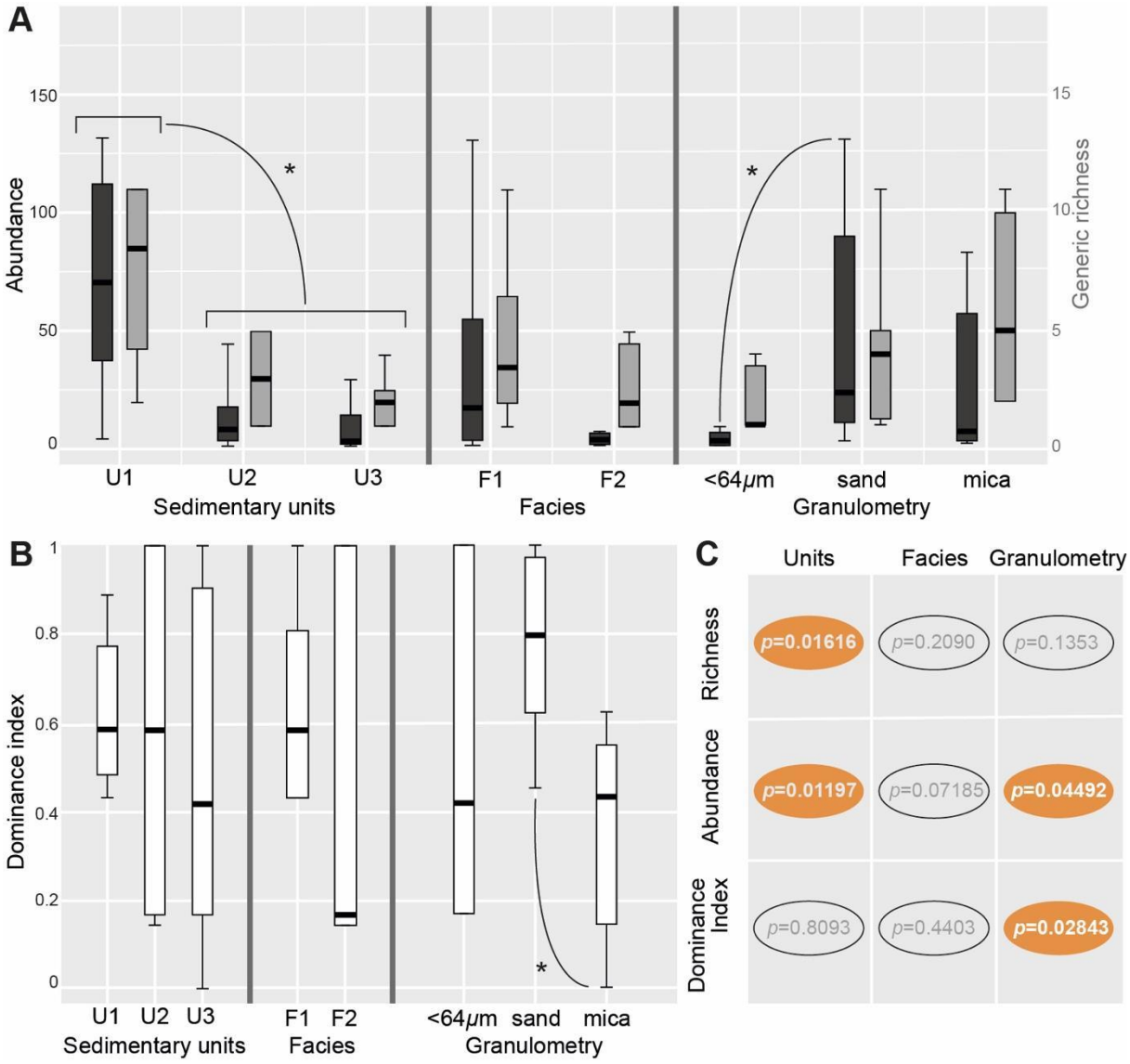

Figure S2. A-B. Boxplots of generic richness, abundance (A) and dominance index (B), amonog the non-allochthonous assemblages in function of tested categories. C. Results of the Kruskal-Wallis test.

Appendix 4. Ecological parameters for the genera

Phylum	Class	Taxonomy	Motility	Tiering	Feeding
Arthropoda	Trilobita	*Cekovia*	Fully, fast	Surficial	Predatory
Arthropoda	Trilobita	*Primaspis*	Fully fast	Surficial	Predatory
Arthropoda	Trilobita	*Prionocheilus*	Fully, fast	Surficial	Predatory
Arthropoda	Trilobita	*Selenopeltis*	Fully, fast	Surficial	Predatory
Arthropoda	Trilobita	*Stenoparia*	Fully, fast	Surficial	Predatory
Arthropoda	Trilobita	*Vysocania*	Fully, fast	Surficial	Predatory
Brachiopoda	Lingulata	*Rafanoglossa*	Facultative, unattached	Semi-infaunal	Suspension
Brachiopoda	Rhynochenellata	*Drabovia*	Non, unattached	Surficial	Suspension
Brachiopoda	Rhynochenellata	*Drabovinella*	Non, unattached	Surficial	Suspension
Brachiopoda	Rhynochenellata	*Hirnantia*	Non, unattached	Surficial	Suspension
Brachiopoda	Rhynochenellata	Orthida	Non, unattached	Surficial	Suspension
Brachiopoda	Strophomenata	*Aegiromena*	Non, attached	Surficial	Suspension
Brachiopoda	Strophomenata	*Bicuspina*	Non, attached	Surficial	Suspension
Brachiopoda	Strophomenata	*Blyskavomena*	Non, attached	Surficial	Suspension
Bryoza	Stenolaemata	Bryozoa indet.	Non, attached	Surficial	Suspension
Bryoza	Stenolaemata	*Ceramopora*	Non, attached	Surficial	Suspension
Cnidaria	Scyphozoa	*Archaeoconularia*	Non, attached	Erect	Suspension
Cnidaria	Scyphozoa	*Sphenothallus*	Non, attached	Erect	Suspension
Echinodermata	Coronoidea	*Mespilocystites*	Non, attached	Erect	Suspension
Echinodermata	Crinoidea	Crinoid indet.	Non, attached	Erect	Suspension
Echinodermata	Diploporita	*Aristocystites*	Non, unattached	Erect	Suspension
Echinodermata	Edrioasteroidea	Edrioasteroidea	Non, attached	Surficial	Suspension
Echinodermata	Ophiuroidea	nov. gen.	Fully, fast	Surficial	Predatory
Echinodermata	Rhombifera	*Echinosphaerites*	Non, attached	Erect	Suspension
Echinodermata	Rhombifera	*Homocystites*	Non, unattached	Erect	Suspension
Echinodermata	Rhombifera	*Macrocystella*	Non, unattached	Erect	Suspension
Echinodermata	Rhombifera	*Rhombifera*	Non, unattached	Erect	Suspension
Echinodermata	Soluta	*Dendrocystites*	Fully, slow	Surficial	Surface Deposit
Echinodermata	Stylophora	*Aspidocarpus*	Fully, slow	Surficial	Suspension
Foraminifera	Textulariina	Psammosphaeridae	Facultative, unattached	Surficial	Surface Deposit
Mollusca	Bivalvia	*Praenucula*	Non, attached	Infauna	Surface Deposit
Mollusca	Cephalopoda	*Orthoceras*	Fully, fast	Nektonic or demersal	Predatory
Mollusca	Gasteropoda	*Tropididiscus*	Fully, slow	Surficial	Grazing
Mollusca	Tentaculitida	*Conchicolites*	Non, attached	Surficial	Suspension

Appendix 5. Presence/absence matrix of echinoderm genera in the selected echinoderm-dominated Konzentrat-Lagerstätten

Class	Genus	Letna Formation	Ouine Inirne Formation	Lower Ktaoua Formation	Postolonnec Formation	Fombuena Formation	Cantera Shale Formation
Edrioasteroidea	*Agelacrinites*	1	0	0	0	0	0
Stylophora	*Anatifopsis*	1	1	1	0	0	1
Edrioasteroidea	*Argodiscus*	1	0	0	0	0	0
Diploporita	*Aristocystites*	1	1	1	1	1	1
Eocrinoidea	*Ascocystites*	1	1	0	0	0	0
Stylophora	*Aspidocarpus*	1	1	1	1	0	0
Diploporita	*Asterocystis*	0	0	1	0	0	0
Stylophora	*Bohemiaecystis*	0	1	0	0	0	0
Stylophora	*Barrandeocarpus*	1	0	1	0	0	0
Crinoidea	*Caleidocrinus*	1	0	0	0	0	0
Diploporita	*Calix*	0	1	1	1	1	0
Stylophora	*Detombesicarpus*	1	0	0	0	0	0
Crinoidea	*Letenocrinus*	1	0	0	0	0	0
Diploporita	*Codiacystis*	1	0	1	1	0	0
Stylophora	*Diamphodicystis*	0	1	0	1	0	0
Soluta	*Dendrocystites*	1	0	1	0	0	1
Diploporita	*Destombesia*	0	0	1	0	0	0
Rhombifera	*Deutocystis*	0	0	1	0	0	0
Rhombifera	*Echinosphaerites*	1	1	1	0	1	0
Diploporita	*Eucystis*	0	0	0	0	1	0
Stylophora	*Eumitrocystella*	1	1	1	0	0	0
Diploporita	*Fungocystites*	1	0	0	0	0	0
Diploporita	*Glaphocystis*	1	0	1	0	0	0
Rhombifera	*Hadrocystis*	0	0	0	1	0	0
Edrioasteroidea	*Hemicystites*	1	0	0	0	0	0
Rhombifera	*Heliocrinites*	0	0	1	0	1	1
Rhombifera	*Hexedriocystis*	1	1	0	0	0	0
Rhombifera	*Homocystites*	1	0	1	0	0	1
Crinoidea	*Heviacrinus*	0	0	0	1	0	0
Diploporita	*Isidalocystis*	0	1	0	0	0	0
Crinoidea	*Isorophus*	0	1	1	0	0	0
Crinoidea	*Lichenocrinus*	1	0	0	0	0	0
Rhombifera	*Macrocystella*	1	0	0	0	0	1
Diploporita	*Maghrebocystis*	0	0	1	0	1	0
Coronoidea	*Mespilocystites*	1	1	0	0	1	1
Stylophora	*Milonicystis*	0	1	0	0	0	0
Stylophora	*Mitrocystela*	0	1	0	1	0	0
Edrioasteroidea	*Moroccodiscus*	0	1	0	0	0	0
Diploporita	*Oretanocalix*	0	1	0	0	0	0
Ophiuroidea	nov. gen.	1	1	1	1	0	0
Diploporita	*Pachycalix*	0	1	0	1	0	0
Stylophora	*Procothurnocystis*	0	1	0	0	0	0
Diploporita	*Phlyctocystis*	0	1	1	1	0	0
Rhombifera	*Rhombifera*	1	0	0	0	1	1
Stylophora	*Scotiaecystis*	1	1	0	0	0	0
Asterozoan	*Siluraster*	1	0	0	0	0	0
Edrioasteroidea	*Spinadiscus*	0	0	1	0	0	0
Asterozoan	*Streptaster*	0	0	1	0	0	0
Asterozoan	*Taeniaster*	0	0	0	1	0	0
Stylophora	*Thoralicystis*	1	1	1	0	0	0
Crinoidea	*Ristanocrinus*	0	0	0	0	1	1
Rhombifera	*Caryocrinites*	0	0	0	0	1	0
Rhombifera	*Corylocrinus*	0	0	0	0	1	0
Rhombifera	*Stichocystis*	0	0	0	0	1	0
Crinoidea	*Fombuenacrinus*	0	0	0	0	1	0
Crinoidea	*Goyacrinus*	0	0	0	0	1	0