

Sprawozdanie z badań archeobotanicznych przeprowadzonych na stanowisku 18 w miejscowości Chrystkowo, gm. Świecie. Katalog zaobserwowanych fitoliów

Archaeobotanical report from site 18 in Chrystkowo, Świecie commune. A catalogue of phytoliths

Wstęp

Materiał do badań mikroskopowych szczątków roślinnych został pobrany w sierpniu 2024 roku ze stanowiska numer 18 zlokalizowanego w miejscowości Chrystkowo, gm. Świecie, woj. kujawsko – pomorskie. Próby ziemi, o objętości do 100 ml, pochodzą z obiektów archeologicznych o zróżnicowanej funkcji, które na podstawie znalezionej archeologicznej, zostały przypisane do dwóch horyzontów chronologicznych: kultury późnej ceramiki wstęgowej (KPCW) oraz kultura pucharów lejkowatych (KPL).

Introduction

Material for microscopic examination of plant remains was collected in August 2024 from site number 18 located in Chrystkowo, Świecie commune, Kuyavian-Pomeranian Voivodeship. Soil samples, with volumes up to 100 ml, come from archaeological sites with diverse functions, which, based on the archaeological material found, were assigned to two chronological horizons: the Late Linear Pottery Culture and the Funnelbeaker Culture.

Materiały i metody

Analizie mikroskopowych szczątków roślinnych zostało poddanych 53 próby (Tabela 1). Metodologia zastosowana do ekstrakcji fitolitów jest zgodna z protokołem zaproponowanym przez Katza i in. (2010), w którym próbkę osadu o masie od 24 do 40 mg traktuje się 50 µl roztworu kwasu solnego (6N HCl) w celu usunięcia węglanów. W przypadku materiałów z Chrystkowa ze względu na znikomą ilość zaobserwowanych fitolitów w próbkach o masie ok 30 mg zdecydowano się stopniowo zwiększać wagę badanych próbek (aż do ponad 100 mg) w celu uzyskania lepszych wyników. Mieszaninę rozprasza się za pomocą wytrząsarki laboratoryjnej a następnie, po zakończeniu reakcji, dodaje się 450 µl poliwolframanu sodu (SPT) $[\text{Na}_6(\text{H}_2\text{W}_{12}\text{O}_{40}) \cdot \text{H}_2\text{O}]$ o gęstości 2,4 g/ml. W kolejnym kroku próbki są umieszczone w myjce ultradźwiękowej przez 5–10 minut, a następnie wirowane przez 5 minut z prędkością 5000 obrotów/minutę w wirówce laboratoryjnej. Proces ten oddziela pozostałe składniki mineralne (głównie kwarc, gliny i fitolity) według gęstości. Podczas gdy fitolity i inne lżejsze materiały unoszą się w roztworze, cięższe materiały, takie jak kwarc, osiadają na dnie. Lżejszą frakcję zawierającą fitolity przeniesiono do mikropróbki o pojemności 0,5 ml i zawirowano. Do badania mikroskopowego przygotowano preparat, rozprowadzając 50 µl wodnego roztworu materiału i przykrywając go szkiełkiem nakrywkowym o wymiarach 24 x 24 mm.

Obserwację mikroskopową próbek przeprowadzono za pomocą mikroskopu Olympus BX41, a zdjęcia cyfrowe wykonano kamerą Olympus DP74. W celu identyfikacji morfologicznej przeanalizowano co najmniej 200 fitolitów o rozpoznawalnej morfologii, korzystając z co najmniej 100 losowo wybranych pól widzenia przy powiększeniu 400–600x. Identyfikację fitolitów sprawdzono w oparciu o zbiory referencyjne Uniwersytetu Autonomicznego w Barcelonie, bazę danych PhytCore (<https://www.phytcore.org>) oraz literaturę specjalistyczną (np. Twiss i in., 1969; Brown, 1984; Rosen, 1992; Mulholland i Rapp, 1992; Piperno, 2006). Opis morfologiczny fitolitów jest zgodny z nową

terminologią ustanowioną przez Międzynarodowy Komitet Nomenklatury Fitolitów (ICPN 2.0; Neumann i in., 2019).

W tabelach katalogowych wymieniono wszystkie zidentyfikowane fitolity (WM w tabeli oznacza zniszczony morfotyp) natomiast w części fotograficznej wybrano jedynie te okazy, które cechowały się najlepiej zachowanymi cechami diagnostycznymi.

Materials and methods

In total, 53 samples were analysed (Table 1). The methodology used for the extraction of phytoliths follows the extraction protocol proposed by Katz et al. (2010), in which a sediment sample of between 24 and 40 mg is treated with 50 µl of a hydrochloric acid solution (6N HCl) to remove carbonates. For materials from Chrystkowo, given the negligible number of phytoliths observed in samples weighing approximately 30 mg, it was decided to gradually increase the sample weight (up to over 100 mg) to obtain better results. The mixture is dispersed using a vortex mixer, and, once the reaction ceases, 450 µl of sodium polytungstate (SPT) [Na₆(H₂W₁₂O₄₀)·H₂O] with a density of 2,4 g/ml is added. Next, an ultrasonic scaler is used for 5-10 minutes, and later a laboratory centrifuge is used for 5 minutes at 5000 rpm. This process separates the remaining mineral components (mainly quartz, clays, and phytoliths) by density. While phytoliths and other lighter materials float in solution, heavier materials like quartz settle to the bottom. The lighter fraction containing the phytoliths is transferred to a 0,5 ml microtube and vortexed. For microscopic examination, a slide is prepared by spreading 50 µl of an aqueous solution of the material and covering it with a 24 x 24 mm coverslip.

Microscopic observation of the samples was performed using an Olympus BX41 microscope, and digital photographs were taken with a Olympus DP74 camera. For morphological identification, a minimum of 200 phytoliths with recognizable morphology were analysed from a minimum of 100 randomly selected fields of view at 400-600x magnification. Phytolith identification was checked against Autonomous University of Barcelona reference collections, the PhytCore database (<https://www.phytcore.org>), and specialized literature (e.g., Twiss et al., 1969; Brown, 1984; Rosen, 1992; Mulholland and Rapp, 1992; Piperno, 2006). The morphological description of the phytoliths follows the new terminology established by the International Committee for Phytolith Nomenclature (ICPN 2.0; Neumann et al., 2019).

Due to the relatively low number of microremains detected in the samples, the catalogue tables list all identified phytoliths (WM in the tables stands for “worn morphotype”), whereas in the photographic section, only the best-preserved diagnostic specimens were selected.

Bibliografia/References

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Mulholland, S.C., Rapp Jr. G. 1992. A morphological classification of grass silica-bodies. En: Rapp Jr. G., Mulholland, S.C. (Eds.), *Phytolith Systematics, Emerging Issues, Advances in Archaeological and Museum Science*. Plenum Press, New York, pp. 65-89.

Piperno, D.R. 2006. *Phytoliths: A comprehensive guide for archaeologists and paleoecologists*. AltaMira Press, Lanham.

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Twiss, P.C., Suess, E., Smith, R.M., 1969. Morphological classification of grass phytoliths. Soil Science Society of America Proceedings 33, 109-11

Tab. 1 Informacje na temat prób pobranych ze stanowiska 18 w miejscowości Chrystkowo. (Samples from the site 18 in Chrystkowo.)

L.p./No	Nr inw. polowy/Field inventory	Obiekt/Feature	Profil/Cross section	Warstwa/Layer	Data pobrania/Date	Nr inw. nadany/Given inventory	Waga/Weight [mg]	Info
1	I-1/24	6	N		27.08.2024	Ch18/2024/6_1	114,04	
2	I-2/24	6	N		27.08.2024	Ch18/2024/6_2	105,05	
3	I-3/24	6	N		27.08.2024	Ch18/2024/6_3	115,06	
4	I-4/24	6	N		27.08.2024	Ch18/2024/6_4	113,92	
5	I-5/24	6	N		27.08.2024	Ch18/2024/6_5	106,68	
6	I-6/24	6	N		27.08.2024	Ch18/2024/6_6	109,38	
7	I-7/24	6	N		27.08.2024	Ch18/2024/6_7	107,81	
8	I-8/24	6	N		27.08.2024	Ch18/2024/6_8	105,54	
9	I-9/24	6	N		27.08.2024	Ch18/2024/6_9	108,66	
10	I-10/24	6	N		27.08.2024	Ch18/2024/6_10	108,99	
11	I-11/24	6	N		27.08.2024	Ch18/2024/6_11	102,89	
12	I-12/24	6	N		27.08.2024	Ch18/2024/6_12	106,73	
13	I-13/24	6	N		27.08.2024	Ch18/2024/6_13	109,85	
14	I-14/24	6	N		27.08.2024	Ch18/2024/6_14	110,99	
15	I-15/24	4a	E		27.08.2024	Ch18/2024/4a_1	109,27	
16	I-16/24	4a	E		27.08.2024	Ch18/2024/4a_2	107,35	
17	I-17/24	4a	E		27.08.2024	Ch18/2024/4a_3	107,83	
18	I-18/24	4a	E		27.08.2024	Ch18/2024/4a_4	106,5	
19	I-19/24	4a	E		27.08.2024	Ch18/2024/4a_5	106,43	
20	I-20/24	4a	E		27.08.2024	Ch18/2024/4a_6	103,35	
21	I-21/24	4a	E		27.08.2024	Ch18/2024/4a_7	102,77	
22	I-22/24	4a	E		27.08.2024	Ch18/2024/4a_8	106,64	
23	I-23/24	4a	E		27.08.2024	Ch18/2024/4a_9	108,83	
24	I-24/24	4a	E		27.08.2024	Ch18/2024/4a_10	113,64	
25	I-25/24	4a	E		27.08.2024	Ch18/2024/4a_11	114,9	
26	I-26/24	4a	E		27.08.2024	Ch18/2024/4a_12	103,79	
27	I-27/24	4a	E		27.08.2024	Ch18/2024/4a_13	48,68	pusto/empty
28	I-28/24	4a	E		27.08.2024	Ch18/2024/4a_14	62,18	
29	I-29/24	4a	E	calec	27.08.2024	Ch18/2024/4a_15	105,92	pusto/empty
30	I-30/24	4a	E	calec	27.08.2024	Ch18/2024/4a_16	107,67	pusto/empty
31	I-31/24	4a	E	calec	27.08.2024	Ch18/2024/4a_17	111,29	pusto/empty
32	I-32/24	4b	E	1	28.08.2024	Ch18/2024/4b_1	56,91	pusto/empty
33	I-33/24	4b	E	1	28.08.2024	Ch18/2024/4b_2	101,92	pusto/empty
34	I-34/24	4b	E	1	28.08.2024	Ch18/2024/4b_3	110,63	pusto/empty
35	I-35/24	4b	E	1	28.08.2024	Ch18/2024/4b_4	101,23	
36	I-37/24	4b	E	1	28.08.2024	Ch18/2024/4b_5	99,85	pusto/empty
37	I-38/24	4b	E	2	28.08.2024	Ch18/2024/4b_6	62,27	pusto/empty
38	I-39/24	4b	E	2	28.08.2024	Ch18/2024/4b_7	101,13	pusto/empty
39	I-40/24	4b	E	2	28.08.2024	Ch18/2024/4b_8	108,93	pusto/empty
40	I-41/24	4b	E	2	28.08.2024	Ch18/2024/4b_9	75,18	pusto/empty
41	I-42/24	4b	E	2	28.08.2024	Ch18/2024/4b_10	104,76	pusto/empty
42	I-43/24	4b	E	3	28.08.2024	Ch18/2024/4b_11	102,68	pusto/empty

43	I-44/24	4b	E	3	28.08.2024	Ch18/2024/4b_12	103,9	
44	I-45/24	4b	E	3	28.08.2024	Ch18/2024/4b_13	105,44	
45	I-46/24	4b	E	3	28.08.2024	Ch18/2024/4b_14	103,07	pusto/empty
46	I-47/24	4b	E	3	28.08.2024	Ch18/2024/4b_15	104,66	
47	I-48/24	4b	E	calec	28.08.2024	Ch18/2024/4b_16	109,75	pusto/empty
48	I-49/24	4b	E	calec	28.08.2024	Ch18/2024/4b_17	103,89	pusto/empty
49		4b	E	calec	28.08.2024	Ch18/2024/4b_18	103,04	pusto/empty
50	I-50/24	20	N		29.08.2024	Ch18/2024/20_1	114,02	
51	I-51/24	20	N		29.08.2024	Ch18/2024/20_2	105,67	
52	I-52/24	20	N		29.08.2024	Ch18/2024/20_3	65,18	
53	I-53/24	20	N	calec	29.08.2024	Ch18/2024/20_4	104,25	pusto/empty

OBIEKT/FEATURE 4a

Ch18_4a_1	
Sample no	Identifications
Ch18_4a_1_1	Crenate
Ch18_4a_1_2	Rondel
Ch18_4a_1_3	Blocky
Ch18_4a_1_4	WM
Ch18_4a_1_5	WM
Ch18_4a_1_6	Elongate entire
Ch18_4a_1_7	Rondel
Ch18_4a_1_8	Elongate entire
Ch18_4a_1_9	Elongate
Ch18_4a_1_10	WM
Ch18_4a_1_11	WM
Ch18_4a_1_12	Acute bulbosus
Ch18_4a_1_13	Elongate
Ch18_4a_1_14	WM
Ch18_4a_1_15	Elongate
Ch18_4a_1_16	WM
Ch18_4a_1_17	Acute bulbosus
Ch18_4a_1_18	Blocky
Ch18_4a_1_19	WM
Ch18_4a_1_20	Elongate
Ch18_4a_1_21	WM
Ch18_4a_1_22	WM
Ch18_4a_1_23	WM
Ch18_4a_1_24	Elongate entire
Ch18_4a_1_25	Elongate entire
Ch18_4a_1_26	WM

Ch18_4a_1_27	Elongate dentate
Ch18_4a_1_28	WM
Ch18_4a_1_29	Rondel
Ch18_4a_1_30	WM
Ch18_4a_1_31	Elongate
Ch18_4a_1_32	WM
Ch18_4a_1_33	WM
Ch18_4a_1_34	Elongate entire
Ch18_4a_1_35	Elongate entire
Ch18_4a_1_36	WM
Ch18_4a_1_37	Rondel
Ch18_4a_1_38	Elongate entire
Ch18_4a_1_39	WM
Ch18_4a_1_40	Elongate entire
Ch18_4a_1_41	WM
Ch18_4a_1_42	Elongate entire
Ch18_4a_1_43	Elongate entire
Ch18_4a_1_44	WM
Ch18_4a_1_45	Rondel
Ch18_4a_1_46	Elongate dentate
Ch18_4a_1_47	Rondel
Ch18_4a_1_48	WM
Ch18_4a_1_49	Elongate dentate
Ch18_4a_1_50	WM
Ch18_4a_1_51	Elongate entire
Ch18_4a_1_52	WM
Ch18_4a_1_53	WM
Ch18_4a_1_54	WM

Ch18_4a_1_55	Elongate entire
Ch18_4a_1_56	Blocky
Ch18_4a_1_57	Elongate entire
Ch18_4a_1_58	Elongate entire
Ch18_4a_1_59	Acute bulbosus
Ch18_4a_1_60	Elongate entire
Ch18_4a_1_61	WM
Ch18_4a_1_62	Elongate dentate
Ch18_4a_1_63	WM
Ch18_4a_1_64	WM
Ch18_4a_1_65	Acute bulbosus
Ch18_4a_1_66	WM
Ch18_4a_1_67	Crenate
Ch18_4a_1_68	Elongate entire
Ch18_4a_1_69	WM
Ch18_4a_1_70	Elongate entire
Ch18_4a_1_71	Elongate entire
Ch18_4a_1_72	Elongate dentate
Ch18_4a_1_73	WM
Ch18_4a_1_74	Trapezoid
Ch18_4a_1_75	Acute bulbosus
Ch18_4a_1_76	Acute bulbosus
Ch18_4a_1_77	Elongate
Ch18_4a_1_78	Elongate entire
Ch18_4a_1_79	WM
Ch18_4a_1_80	Elongate entire
Ch18_4a_1_81	WM
Ch18_4a_1_82	WM

Ch18_4a_2	
Sample no	Identifications
Ch18_4a_2_1	WM
Ch18_4a_2_2	WM
Ch18_4a_2_3	Acute bulbosus
Ch18_4a_2_4	Elongate
Ch18_4a_2_5	Trapezoid
Ch18_4a_2_6	WM
Ch18_4a_2_7	Sponge spicule?
Ch18_4a_2_8	Acute bulbosus
Ch18_4a_2_9	WM
Ch18_4a_2_10	Acute bulbosus
Ch18_4a_2_11	Elongate dentate

Ch18_4a_2_12	Rondel
Ch18_4a_2_13	WM
Ch18_4a_2_14	WM
Ch18_4a_2_15	Acute bulbosus
Ch18_4a_2_16	Elongate entire
Ch18_4a_2_17	Acute bulbosus
Ch18_4a_2_18	WM
Ch18_4a_2_19	Elongate
Ch18_4a_2_20	Acute bulbosus
Ch18_4a_2_21	WM
Ch18_4a_2_22	Elongate dentate
Ch18_4a_2_23	WM
Ch18_4a_2_24	WM

Ch18_4a_2_25	Acute bulbosus
Ch18_4a_2_26	WM
Ch18_4a_2_27	WM
Ch18_4a_2_28	Acute bulbosus
Ch18_4a_2_29	Elongate
Ch18_4a_2_30	WM
Ch18_4a_2_31	WM
Ch18_4a_2_32	Trapezoid
Ch18_4a_2_33	WM
Ch18_4a_2_34	Rondel
Ch18_4a_2_35	WM
Ch18_4a_2_36	Elongate
Ch18_4a_2_37	Elongate entire

Ch18_4a_3

Sample no	Identifications
Ch18_4a_3_1	Elongate entire
Ch18_4a_3_2	Acute bulbosus
Ch18_4a_3_3	WM
Ch18_4a_3_4	Elongate entire
Ch18_4a_3_5	Elongate entire
Ch18_4a_3_6	Elongate entire
Ch18_4a_3_7	Crenate
Ch18_4a_3_8	Elongate entire
Ch18_4a_3_9	Saddle
Ch18_4a_3_10	Bilobate
Ch18_4a_3_11	Elongate entire
Ch18_4a_3_12	Elongate dentate
Ch18_4a_3_13	Sponge spicule
Ch18_4a_3_14	Elongate thick
Ch18_4a_3_15	WM
Ch18_4a_3_16	Elongate entire
Ch18_4a_3_17	Elongate entire
Ch18_4a_3_18	Rondel
Ch18_4a_3_19	Rondel

Ch18_4a_3_20	Elongate
Ch18_4a_3_21	Elongate dentate
Ch18_4a_3_22	Acute bulbosus
Ch18_4a_3_23	Elongate entire
Ch18_4a_3_24	Polylobate
Ch18_4a_3_25	WM
Ch18_4a_3_26	Elongate entire
Ch18_4a_3_27	Acute bulbosus
Ch18_4a_3_28	WM
Ch18_4a_3_29	Acute bulbosus
Ch18_4a_3_30	WM
Ch18_4a_3_31	Elongate entire
Ch18_4a_3_32	Acute bulbosus
Ch18_4a_3_33	Elongate
Ch18_4a_3_34	Elongate entire
Ch18_4a_3_35	Acute bulbosus
Ch18_4a_3_36	?
Ch18_4a_3_37	Acute bulbosus
Ch18_4a_3_38	WM
Ch18_4a_3_39	Elongate entire
Ch18_4a_3_40	Acute bulbosus

Ch18_4a_3_41	Elongate entire
Ch18_4a_3_42	Elongate entire
Ch18_4a_3_43	Elongate thick
Ch18_4a_3_44	WM
Ch18_4a_3_45	Sponge spicule
Ch18_4a_3_46	Acute bulbosus
Ch18_4a_3_47	WM
Ch18_4a_3_48	Elongate dentate
Ch18_4a_3_49	Tracheary
Ch18_4a_3_50	Elongate thick
Ch18_4a_3_51	Elongate entire
Ch18_4a_3_52	Acute bulbosus
Ch18_4a_3_53	WM
Ch18_4a_3_54	Elongate entire
Ch18_4a_3_55	WM
Ch18_4a_3_56	Elongate entire
Ch18_4a_3_57	WM
Ch18_4a_3_58	Acute bulbosus
Ch18_4a_3_59	Elongate entire
Ch18_4a_3_60	Elongate entire
Ch18_4a_3_61	Sponge spicule?

Ch18_4a_4

Sample no	Identifications
Ch18_4a_4_1	Rondel
Ch18_4a_4_2	Elongate dentate
Ch18_4a_4_3	Crenate
Ch18_4a_4_4	Elongate entire
Ch18_4a_4_5	Elongate entire
Ch18_4a_4_6	Elongate entire
Ch18_4a_4_7	Irregular psilate
Ch18_4a_4_8	Rondel
Ch18_4a_4_9	Elongate sinuate
Ch18_4a_4_10	Elongate entire
Ch18_4a_4_11	Rondel
Ch18_4a_4_12	WM
Ch18_4a_4_13	Elongate sinuate
Ch18_4a_4_14	Acute bulbosus
Ch18_4a_4_15	Elongate entire
Ch18_4a_4_16	WM
Ch18_4a_4_17	Rondel
Ch18_4a_4_18	WM
Ch18_4a_4_19	Elongate sinuate?
Ch18_4a_4_20	Elongate entire?
Ch18_4a_4_21	WM
Ch18_4a_4_22	Trapezoid
Ch18_4a_4_23	Rondel
Ch18_4a_4_24	Elongate sinuate
Ch18_4a_4_25	Elongate entire

Ch18_4a_4_26	Trapezoid
Ch18_4a_4_27	WM
Ch18_4a_4_28	Acute bulbosus
Ch18_4a_4_29	Rondel
Ch18_4a_4_30	Elongate entire
Ch18_4a_4_31	Elongate entire?
Ch18_4a_4_32	Acute bulbosus?
Ch18_4a_4_33	Elongate entire
Ch18_4a_4_34	Elongate dentate?
Ch18_4a_4_35	Elongate dentate
Ch18_4a_4_36	Elongate sinuate
Ch18_4a_4_37	Acute bulbosus
Ch18_4a_4_38	Elongate entire
Ch18_4a_4_39	Irregular psilate
Ch18_4a_4_40	Rondel conical
Ch18_4a_4_41	Elongate entire
Ch18_4a_4_42	WM
Ch18_4a_4_43	Rondel?
Ch18_4a_4_44	WM
Ch18_4a_4_45	WM
Ch18_4a_4_46	Elongate
Ch18_4a_4_47	WM
Ch18_4a_4_48	WM
Ch18_4a_4_49	Elongate
Ch18_4a_4_50	Acute bulbosus
Ch18_4a_4_51	Elongate entire?
Ch18_4a_4_52	Elongate entire

Ch18_4a_4_53	Elongate thick
Ch18_4a_4_54	Trapezoid
Ch18_4a_4_55	Acute bulbosus
Ch18_4a_4_56	Blocky?
Ch18_4a_4_57	Elongate thick
Ch18_4a_4_58	blocky
Ch18_4a_4_59	WM
Ch18_4a_4_60	Elongate thick
Ch18_4a_4_61	WM
Ch18_4a_4_62	Blocky
Ch18_4a_4_63	WM
Ch18_4a_4_64	Acute bulbosus
Ch18_4a_4_65	Acute bulbosus
Ch18_4a_4_66	WM
Ch18_4a_4_67	Elongate entire
Ch18_4a_4_68	Acute bulbosus
Ch18_4a_4_69	Elongate entire
Ch18_4a_4_70	Elongate entire
Ch18_4a_4_71	Acute bulbosus
Ch18_4a_4_72	Acute bulbosus
Ch18_4a_4_73	Blocky
Ch18_4a_4_74	WM
Ch18_4a_4_75	Blocky
Ch18_4a_4_76	Trapezoid
Ch18_4a_4_77	Acute bulbosus
Ch18_4a_4_78	Rondel
Ch18_4a_4_79	Rondel

Ch18_4a_4_80	Elongate sinuate
Ch18_4a_4_81	Acute bulbosus
Ch18_4a_4_82	Elongate entire

Ch18_4a_4_83	Elongate entire
Ch18_4a_4_84	Trapezoid?
Ch18_4a_4_85	Elongate entire

Ch18_4a_4_86	Elongate entire
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Ch18_4a_5

Sample no	Identifications
Ch18_4a_5_1	Elongate entire
Ch18_4a_5_2	Elongate dentate
Ch18_4a_5_3	Elongate entire
Ch18_4a_5_4	Acute bulbosus
Ch18_4a_5_5	Crenate
Ch18_4a_5_6	WM
Ch18_4a_5_7	Elongate dentate
Ch18_4a_5_8	Rondel
Ch18_4a_5_9	Rondel
Ch18_4a_5_10	Elongate dentate
Ch18_4a_5_11	Elongate entire
Ch18_4a_5_12	Blocky
Ch18_4a_5_13	Elongate dentate
Ch18_4a_5_14	Acute bulbosus
Ch18_4a_5_15	Spheroid
Ch18_4a_5_16	WM
Ch18_4a_5_17	WM
Ch18_4a_5_18	Elongate entire
Ch18_4a_5_19	Hat cone?
Ch18_4a_5_20	WM
Ch18_4a_5_21	WM
Ch18_4a_5_22	Acute bulbosus
Ch18_4a_5_23	WM
Ch18_4a_5_24	Crenate
Ch18_4a_5_25	Polylobate
Ch18_4a_5_26	WM
Ch18_4a_5_27	Rondel
Ch18_4a_5_28	WM

Ch18_4a_5_29	Elongate entire
Ch18_4a_5_30	Elongate entire
Ch18_4a_5_31	WM
Ch18_4a_5_32	Elongate dentate
Ch18_4a_5_33	Rondel
Ch18_4a_5_34	Acute bulbosus
Ch18_4a_5_35	Elongate
Ch18_4a_5_36	WM
Ch18_4a_5_37	Acute bulbosus
Ch18_4a_5_38	Elongate dentate
Ch18_4a_5_39	Elongate entire
Ch18_4a_5_40	Trapezoid
Ch18_4a_5_41	Elongate entire
Ch18_4a_5_42	Acute bulbosus
Ch18_4a_5_43	Rondel
Ch18_4a_5_44	Elongate entire
Ch18_4a_5_45	Elongate entire
Ch18_4a_5_46	Elongate entire
Ch18_4a_5_47	Elongate entire
Ch18_4a_5_48	Rondel
Ch18_4a_5_49	Crenate
Ch18_4a_5_50	Spheroid
Ch18_4a_5_52	Tracheary
Ch18_4a_5_53	Acute bulbosus
Ch18_4a_5_54	Elongate entire
Ch18_4a_5_55	WM
Ch18_4a_5_56	Elongate entire
Ch18_4a_5_57	Sponge spikule
Ch18_4a_5_58	Elongate entire
Ch18_4a_5_59	Rondel

Ch18_4a_5_60	Elongate dentate
Ch18_4a_5_61	Elongate entire
Ch18_4a_5_62	Acute bulbosus
Ch18_4a_5_63	Acute bulbosus
Ch18_4a_5_64	Elongate dentate
Ch18_4a_5_65	Bilobate
Ch18_4a_5_66	Elongate dentate
Ch18_4a_5_67	Elongate entire
Ch18_4a_5_68	Elongate entire
Ch18_4a_5_69	Elongate entire
Ch18_4a_5_70	Elongate entire
Ch18_4a_5_71	Rondel
Ch18_4a_5_72	Acute bulbosus
Ch18_4a_5_73	Trapezoid
Ch18_4a_5_74	Rondel
Ch18_4a_5_75	Elongate entire
Ch18_4a_5_76	Blocky
Ch18_4a_5_77	Polylobate
Ch18_4a_5_78	Crenate
Ch18_4a_5_79	WM
Ch18_4a_5_80	Elongate entire
Ch18_4a_5_81	Elongate entire
Ch18_4a_5_82	Rondel
Ch18_4a_5_83	Elongate entire
Ch18_4a_5_84	Crenate
Ch18_4a_5_85	Elongate entire
Ch18_4a_5_86	Elongate entire
Ch18_4a_5_87	Elongate entire
Ch18_4a_5_88	Rondel
Ch18_4a_5_89	WM

Ch18_4a_6

Sample no	Identifications
Ch18_4a_6_1	WM
Ch18_4a_6_2	Elongate entire
Ch18_4a_6_3	Elongate entire
Ch18_4a_6_4	Acute bulbosus
Ch18_4a_6_5	WM
Ch18_4a_6_6	Elongate entire
Ch18_4a_6_7	WM
Ch18_4a_6_8	WM
Ch18_4a_6_9	WM
Ch18_4a_6_10	Elongate entire
Ch18_4a_6_11	WM

Ch18_4a_6_12	Polylobate
Ch18_4a_6_13	Elongate entire
Ch18_4a_6_14	WM
Ch18_4a_6_15	Elongate entire
Ch18_4a_6_16	WM
Ch18_4a_6_17	WM
Ch18_4a_6_18	Elongate entire
Ch18_4a_6_19	Elongate dentate
Ch18_4a_6_20	Elongate entire
Ch18_4a_6_21	Elongate entire
Ch18_4a_6_22	Crenate
Ch18_4a_6_23	WM
Ch18_4a_6_24	Elongate entire

Ch18_4a_6_25	WM
Ch18_4a_6_26	Elongate thick
Ch18_4a_6_27	Elongate thick
Ch18_4a_6_28	Acute bulbosus
Ch18_4a_6_29	Acute bulbosus
Ch18_4a_6_30	WM
Ch18_4a_6_31	WM
Ch18_4a_6_32	Elongate entire
Ch18_4a_6_33	Acute bulbosus
Ch18_4a_6_34	Elongate dentate
Ch18_4a_6_35	WM
Ch18_4a_6_36	Elongate dentate
Ch18_4a_6_37	Rondel

Ch18_4a_6_38	Rondel
Ch18_4a_6_39	Crenate
Ch18_4a_6_40	Acute bulbosus
Ch18_4a_6_41	Rondel
Ch18_4a_6_42	Elongate entire
Ch18_4a_6_43	Elongate entire
Ch18_4a_6_44	Spheroid
Ch18_4a_6_45	Elongate entire
Ch18_4a_6_46	Rondel
Ch18_4a_6_47	Elongate entire
Ch18_4a_6_48	Rondel
Ch18_4a_6_49	Acute bulbosus
Ch18_4a_6_50	Sponge spikule
Ch18_4a_6_51	Rondel
Ch18_4a_6_52	Elongate entire
Ch18_4a_6_53	WM
Ch18_4a_6_54	WM
Ch18_4a_6_55	Rondel
Ch18_4a_6_56	Acute bulbosus
Ch18_4a_6_57	Acute bulbosus
Ch18_4a_6_58	Elongate entire
Ch18_4a_6_59	Rondel

Ch18_4a_6_60	WM
Ch18_4a_6_61	Elongate entire
Ch18_4a_6_62	Rondel
Ch18_4a_6_63	Blocky
Ch18_4a_6_64	Acute bulbosus
Ch18_4a_6_65	Elongate entire
Ch18_4a_6_66	Acute bulbosus
Ch18_4a_6_67	WM
Ch18_4a_6_68	Crenate
Ch18_4a_6_69	Acute bulbosus
Ch18_4a_6_70	Elongate entire
Ch18_4a_6_71	WM
Ch18_4a_6_72	Elongate entire
Ch18_4a_6_73	WM
Ch18_4a_6_74	Elongate dentate
Ch18_4a_6_75	Acute bulbosus
Ch18_4a_6_76	Elongate entire
Ch18_4a_6_76b	Acute bulbosus
Ch18_4a_6_77	Elongate entire
Ch18_4a_6_78	WM
Ch18_4a_6_79	Elongate entire
Ch18_4a_6_80	Acute bulbosus

Ch18_4a_6_81	Acute bulbosus
Ch18_4a_6_82	WM
Ch18_4a_6_83	WM
Ch18_4a_6_84	Elongate thick
Ch18_4a_6_85	Elongate dentate
Ch18_4a_6_86	Elongate dendritic
Ch18_4a_6_87	Elongate dentate
Ch18_4a_6_88	Elongate entire
Ch18_4a_6_88b	Acute bulbosus
Ch18_4a_6_89	Elongate entire
Ch18_4a_6_90	WM
Ch18_4a_6_91	Elongate entire
Ch18_4a_6_92	Elongate entire
Ch18_4a_6_93	Elongate entire
Ch18_4a_6_94	Elongate dentate
Ch18_4a_6_95	Elongate dentate
Ch18_4a_6_96	Acute bulbosus
Ch18_4a_6_97	Elongate dentate
Ch18_4a_6_98	Polylobate
Ch18_4a_6_99	Acute bulbosus
Ch18_4a_6_100	Elongate

Ch18_4a_7	
Sample no	Identifications
Ch18_4a_7_1	Acute bulbosus
Ch18_4a_7_2	Acute bulbosus
Ch18_4a_7_3	Rondel
Ch18_4a_7_4	Elongate entire
Ch18_4a_7_5	Elongate dentate
Ch18_4a_7_6	Acute bulbosus
Ch18_4a_7_7	WM
Ch18_4a_7_8	Acute bulbosus
Ch18_4a_7_9	Elongate entire
Ch18_4a_7_10	Acute bulbosus
Ch18_4a_7_11	Crenate
Ch18_4a_7_12	Polylobate
Ch18_4a_7_13	Rondel
Ch18_4a_7_14	Rondel
Ch18_4a_7_15	Acute bulbosus
Ch18_4a_7_16	Acute bulbosus
Ch18_4a_7_17	Elongate sinuate
Ch18_4a_7_18	WM
Ch18_4a_7_19	Acute bulbosus
Ch18_4a_7_20	Elongate entire
Ch18_4a_7_21	Elongate entire
Ch18_4a_7_22	Rondel
Ch18_4a_7_23	WM

Ch18_4a_7_24	Acute bulbosus
Ch18_4a_7_25	WM
Ch18_4a_7_26	Elongate entire
Ch18_4a_7_27	Crenate
Ch18_4a_7_28	Elongate entire
Ch18_4a_7_29	Acute bulbosus
Ch18_4a_7_30	Elongate entire
Ch18_4a_7_31	Elongate entire
Ch18_4a_7_32	Elongate entire
Ch18_4a_7_33	Elongate entire
Ch18_4a_7_34	Elongate entire
Ch18_4a_7_35	Elongate entire
Ch18_4a_7_36	Elongate entire
Ch18_4a_7_37	Elongate entire
Ch18_4a_7_38	Rondel
Ch18_4a_7_39	Elongate dentate
Ch18_4a_7_40	Elongate entire
Ch18_4a_7_41	Elongate entire
Ch18_4a_7_42	Rondel
Ch18_4a_7_43	Acute bulbosus
Ch18_4a_7_44	Spheroid
Ch18_4a_7_45	Rondel
Ch18_4a_7_46	Elongate entire
Ch18_4a_7_47	Elongate entire
Ch18_4a_7_48	Elongate entire

Ch18_4a_7_49	Elongate entire
Ch18_4a_7_50	WM
Ch18_4a_7_51	Rondel
Ch18_4a_7_52	Acute bulbosus
Ch18_4a_7_53	Rondel
Ch18_4a_7_54	Acute bulbosus
Ch18_4a_7_55	Elongate dentate
Ch18_4a_7_56	Elongate entire
Ch18_4a_7_57	Acute bulbosus
Ch18_4a_7_58	Elongate dentate
Ch18_4a_7_59	Blocky
Ch18_4a_7_60	Elongate entire
Ch18_4a_7_61	Acute bulbosus
Ch18_4a_7_62	Rondel
Ch18_4a_7_63	Acute bulbosus
Ch18_4a_7_64	Elongate entire
Ch18_4a_7_65	Acute bulbosus
Ch18_4a_7_66	Acute bulbosus
Ch18_4a_7_67	Rondel
Ch18_4a_7_68	Elongate entire
Ch18_4a_7_69	Elongate dentate
Ch18_4a_7_70	Acute bulbosus
Ch18_4a_7_71	Elongate dentate
Ch18_4a_7_72	Polylobate
Ch18_4a_7_73	Acute bulbosus

Ch18_4a_7_74	Elongate thick
Ch18_4a_7_75	Rondel
Ch18_4a_7_76	Crenate
Ch18_4a_7_77	Elongate entire
Ch18_4a_7_78	Rondel
Ch18_4a_7_79	Rondel
Ch18_4a_7_80	Acute bulbosus

Ch18_4a_7_81	Blocky
Ch18_4a_7_82	Crenate
Ch18_4a_7_83	Elongate entire
Ch18_4a_7_84	Acute bulbosus
Ch18_4a_7_85	Acute bulbosus
Ch18_4a_7_86	Rondel
Ch18_4a_7_87	Acute bulbosus

Ch18_4a_7_88	Elongate dentate
Ch18_4a_7_89	Acute bulbosus
Ch18_4a_7_90	Elongate entire
Ch18_4a_7_91	Elongate entire
Ch18_4a_7_92	Rondel

Ch18_4a_8

Sample no	Identifications
Ch18_4a_8_1	Elongate entire
Ch18_4a_8_2	WM
Ch18_4a_8_3	Elongate entire
Ch18_4a_8_4	Acute bulbosus
Ch18_4a_8_5	WM
Ch18_4a_8_6	Elongate entire
Ch18_4a_8_7	Elongate entire
Ch18_4a_8_8	Crenate
Ch18_4a_8_9	Elongate entire
Ch18_4a_8_10	Blocky
Ch18_4a_8_11	Elongate entire
Ch18_4a_8_12	Acute bulbosus

Ch18_4a_8_13	Acute bulbosus
Ch18_4a_8_14	WM
Ch18_4a_8_15	Rondel
Ch18_4a_8_16	Elongate dentate
Ch18_4a_8_17	Acute bulbosus
Ch18_4a_8_18	Elongate entire
Ch18_4a_8_19	WM
Ch18_4a_8_20	WM
Ch18_4a_8_21	Elongate entire
Ch18_4a_8_22	Elongate entire
Ch18_4a_8_23	Elongate entire
Ch18_4a_8_24	Elongate entire
Ch18_4a_8_25	Elongate entire
Ch18_4a_8_26	Acute bulbosus

Ch18_4a_8_27	Elongate entire
Ch18_4a_8_28	Blocky
Ch18_4a_8_29	Acute bulbosus
Ch18_4a_8_30	Acute bulbosus
Ch18_4a_8_31	Elongate entire
Ch18_4a_8_32	Elongate entire
Ch18_4a_8_33	Elongate dentate
Ch18_4a_8_34	Acute bulbosus
Ch18_4a_8_35	Trapezoid
Ch18_4a_8_36	Acute bulbosus
Ch18_4a_8_37	Elongate entire
Ch18_4a_8_38	Elongate entire
Ch18_4a_8_39	Acute bulbosus
Ch18_4a_8_40	Elongate entire

Ch18_4a_9

Sample no	Identifications
Ch18_4a_9_1	Trapezoid
Ch18_4a_9_2	Elongate entire
Ch18_4a_9_3	Elongate thick
Ch18_4a_9_4	Elongate entire
Ch18_4a_9_5	Acute bulbosus
Ch18_4a_9_6	Blocky
Ch18_4a_9_7	Acute bulbosus
Ch18_4a_9_8	Blocky
Ch18_4a_9_9	Acute bulbosus
Ch18_4a_9_10	Acute bulbosus
Ch18_4a_9_11	Blocky
Ch18_4a_9_12	WM
Ch18_4a_9_13	Rondel
Ch18_4a_9_14	Acute bulbosus
Ch18_4a_9_15	Polylobate
Ch18_4a_9_16	Elongate entire
Ch18_4a_9_17	Rondel
Ch18_4a_9_18	Elongate dentate
Ch18_4a_9_19	Elongate dentate
Ch18_4a_9_20	Elongate entire

Ch18_4a_9_21	Elongate entire
Ch18_4a_9_22	Elongate thick
Ch18_4a_9_23	Acute bulbosus
Ch18_4a_9_24	Elongate entire
Ch18_4a_9_25	Elongate entire
Ch18_4a_9_26	WM
Ch18_4a_9_27	Elongate entire
Ch18_4a_9_28	Acute bulbosus
Ch18_4a_9_29	Rondel
Ch18_4a_9_30	Elongate entire
Ch18_4a_9_31	Elongate entire
Ch18_4a_9_32	Crenate
Ch18_4a_9_33	WM
Ch18_4a_9_34	Elongate entire
Ch18_4a_9_35	WM
Ch18_4a_9_36	Elongate entire
Ch18_4a_9_37	Elongate entire
Ch18_4a_9_38	Elongate entire
Ch18_4a_9_39	Elongate entire
Ch18_4a_9_40	Acute bulbosus
Ch18_4a_9_41	Elongate entire
Ch18_4a_9_42	Elongate entire

Ch18_4a_9_43	Rondel
Ch18_4a_9_44	Acute bulbosus
Ch18_4a_9_45	Acute bulbosus
Ch18_4a_9_46	Elongate dentate
Ch18_4a_9_47	Acute bulbosus
Ch18_4a_9_48	Elongate thick
Ch18_4a_9_49	Acute bulbosus
Ch18_4a_9_50	Elongate entire
Ch18_4a_9_51	Rondel
Ch18_4a_9_52	Rondel
Ch18_4a_9_53	Elongate entire
Ch18_4a_9_54	Elongate thick
Ch18_4a_9_55	Elongate entire
Ch18_4a_9_56	Elongate entire
Ch18_4a_9_57	Spheroid
Ch18_4a_9_58	Acute bulbosus
Ch18_4a_9_59	Elongate thick
Ch18_4a_9_60	Elongate entire
Ch18_4a_9_61	Elongate entire
Ch18_4a_9_62	Elongate dentate

Ch18_4a_10

Sample no	Identifications
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Ch18_4a_10_1	Elongate entire
Ch18_4a_10_2	Elongate dentate

Ch18_4a_10_3	WM
Ch18_4a_10_4	WM

Ch18_4a_10_5	Elongate entire
Ch18_4a_10_6	Rondel
Ch18_4a_10_7	Acute bulbosus
Ch18_4a_10_8	WM
Ch18_4a_10_9	WM
Ch18_4a_10_10	Rondel
Ch18_4a_10_11	WM
Ch18_4a_10_12	Acute bulbosus
Ch18_4a_10_13	Acute bulbosus
Ch18_4a_10_14	Elongate dentate
Ch18_4a_10_15	Rondel
Ch18_4a_10_16	Rondel
Ch18_4a_10_17	Elongate entire
Ch18_4a_10_18	Elongate entire
Ch18_4a_10_19	Elongate entire
Ch18_4a_10_20	Rondel
Ch18_4a_10_21	WM
Ch18_4a_10_22	Acute bulbosus
Ch18_4a_10_23	Elongate entire
Ch18_4a_10_24	Elongate entire
Ch18_4a_10_25	Elongate entire
Ch18_4a_10_26	Elongate dentate
Ch18_4a_10_27	Elongate entire
Ch18_4a_10_28	Elongate dentate
Ch18_4a_10_29	WM
Ch18_4a_10_30	Elongate entire
Ch18_4a_10_31	Acute bulbosus
Ch18_4a_10_32	Elongate thick
Ch18_4a_10_33	Elongate entire
Ch18_4a_10_34	Rondel
Ch18_4a_10_35	Rondel
Ch18_4a_10_36	Acute bulbosus

Ch18_4a_10_37	Elongate entire
Ch18_4a_10_38	Acute bulbosus
Ch18_4a_10_39	Rondel
Ch18_4a_10_40	Acute bulbosus
Ch18_4a_10_41	Acute bulbosus
Ch18_4a_10_42	Elongate entire
Ch18_4a_10_43	Acute bulbosus
Ch18_4a_10_44	Acute bulbosus
Ch18_4a_10_45	Elongate entire
Ch18_4a_10_46	Elongate entire
Ch18_4a_10_47	Trapezoid
Ch18_4a_10_48	Elongate entire
Ch18_4a_10_49	Rondel
Ch18_4a_10_50	Elongate entire
Ch18_4a_10_51	Acute bulbosus
Ch18_4a_10_52	Rondel
Ch18_4a_10_53	WM
Ch18_4a_10_54	Elongate entire
Ch18_4a_10_55	Rondel
Ch18_4a_10_56	Rondel
Ch18_4a_10_57	Elongate entire
Ch18_4a_10_58	Elongate entire
Ch18_4a_10_59	Elongate entire
Ch18_4a_10_60	WM
Ch18_4a_10_61	Elongate entire
Ch18_4a_10_62	Elongate entire
Ch18_4a_10_63	Elongate entire
Ch18_4a_10_64	Acute bulbosus
Ch18_4a_10_65	Elongate dentate
Ch18_4a_10_66	Rondel
Ch18_4a_10_67	WM
Ch18_4a_10_68	WM

Ch18_4a_10_69	Elongate entire
Ch18_4a_10_70	Elongate entire
Ch18_4a_10_71	Elongate entire
Ch18_4a_10_72	Spheroid
Ch18_4a_10_73	Rondel
Ch18_4a_10_74	Acute bulbosus
Ch18_4a_10_75	Acute bulbosus
Ch18_4a_10_76	Acute bulbosus
Ch18_4a_10_77	Elongate entire
Ch18_4a_10_78	Elongate entire
Ch18_4a_10_79	Elongate entire
Ch18_4a_10_80	Elongate entire
Ch18_4a_10_81	Rondel
Ch18_4a_10_82	Elongate entire
Ch18_4a_10_83	WM
Ch18_4a_10_84	Elongate entire
Ch18_4a_10_85	Crenate
Ch18_4a_10_86	WM
Ch18_4a_10_87	Elongate entire
Ch18_4a_10_88	Blocky
Ch18_4a_10_89	Acute bulbosus
Ch18_4a_10_90	Acute bulbosus
Ch18_4a_10_91	Spheroid
Ch18_4a_10_92	Acute bulbosus
Ch18_4a_10_93	WM
Ch18_4a_10_94	Elongate entire
Ch18_4a_10_95	Elongate entire
Ch18_4a_10_96	Elongate entire
Ch18_4a_10_97	Elongate dentate
Ch18_4a_10_98	Spheroid
Ch18_4a_10_99	Elongate entire

Ch18_4a_11	
Sample no	Identifications
Ch18_4a_11_1	Elongate dentate
Ch18_4a_11_2	Elongate thick
Ch18_4a_11_3	Blocky
Ch18_4a_11_4	Elongate entire
Ch18_4a_11_5	Acute bulbosus
Ch18_4a_11_6	Acute bulbosus
Ch18_4a_11_7	Elongate entire
Ch18_4a_11_8	Elongate entire
Ch18_4a_11_9	Rondel
Ch18_4a_11_10	Elongate entire
Ch18_4a_11_11	Elongate dentate
Ch18_4a_11_12	Elongate dentate
Ch18_4a_11_13	Polylobate

Ch18_4a_11_14	WM
Ch18_4a_11_15	Elongate dentate
Ch18_4a_11_16	Elongate entire
Ch18_4a_11_17	Spheroid
Ch18_4a_11_18	Elongate entire
Ch18_4a_11_19	Acute bulbosus
Ch18_4a_11_20	Elongate dentate
Ch18_4a_11_21	Acute bulbosus
Ch18_4a_11_22	WM
Ch18_4a_11_23	WM
Ch18_4a_11_24	Rondel
Ch18_4a_11_25	Acute bulbosus
Ch18_4a_11_26	Acute bulbosus
Ch18_4a_11_27	WM
Ch18_4a_11_28	Elongate entire

Ch18_4a_11_29	Elongate entire
Ch18_4a_11_30	Acute bulbosus
Ch18_4a_11_31	Elongate dentate
Ch18_4a_11_32	Elongate entire
Ch18_4a_11_33	Elongate entire
Ch18_4a_11_34	Polylobate
Ch18_4a_11_35	Crenate
Ch18_4a_11_36	Acute bulbosus
Ch18_4a_11_37	Elongate dentate
Ch18_4a_11_38	Elongate entire
Ch18_4a_11_39	Acute bulbosus
Ch18_4a_11_40	Acute bulbosus
Ch18_4a_11_41	Elongate dentate
Ch18_4a_11_42	Acute bulbosus
Ch18_4a_11_43	Elongate entire

Ch18_4a_11_44	Elongate entire
Ch18_4a_11_45	Rondel
Ch18_4a_11_46	Spheroid
Ch18_4a_11_47	Elongate entire
Ch18_4a_11_48	Acute bulbosus
Ch18_4a_11_49	Rondel
Ch18_4a_11_50	Acute bulbosus
Ch18_4a_11_51	Crenate
Ch18_4a_11_52	WM
Ch18_4a_11_53	Acute bulbosus
Ch18_4a_11_54	Rondel
Ch18_4a_11_55	Elongate entire
Ch18_4a_11_56	Crenate
Ch18_4a_11_57	Rondel
Ch18_4a_11_58	Elongate entire
Ch18_4a_11_59	Acute bulbosus
Ch18_4a_11_60	Acute bulbosus
Ch18_4a_11_61	Acute bulbosus
Ch18_4a_11_62	Elongate entire
Ch18_4a_11_63	Elongate entire
Ch18_4a_11_64	Acute bulbosus
Ch18_4a_11_65	Elongate entire
Ch18_4a_11_66	Elongate entire
Ch18_4a_11_67	Crenate
Ch18_4a_11_68	Elongate entire
Ch18_4a_11_69	Elongate entire
Ch18_4a_11_70	Pollen
Ch18_4a_11_71	Elongate dentate
Ch18_4a_11_72	Rondel
Ch18_4a_11_73	Elongate entire

Ch18_4a_11_74	Elongate entire
Ch18_4a_11_75	Elongate entire
Ch18_4a_11_76	Elongate entire
Ch18_4a_11_77	Rondel
Ch18_4a_11_78	Elongate entire
Ch18_4a_11_79	Rondel
Ch18_4a_11_80	Elongate entire
Ch18_4a_11_81	Elongate thick
Ch18_4a_11_82	Acute bulbosus
Ch18_4a_11_83	Elongate entire
Ch18_4a_11_84	Elongate entire
Ch18_4a_11_85	Acute bulbosus
Ch18_4a_11_86	Acute bulbosus
Ch18_4a_11_87	Elongate thick
Ch18_4a_11_88	Elongate entire
Ch18_4a_11_89	Elongate dentate
Ch18_4a_11_90	Rondel
Ch18_4a_11_91	Crenate
Ch18_4a_11_92	Rondel
Ch18_4a_11_93	Elongate entire
Ch18_4a_11_94	Rondel
Ch18_4a_11_95	Elongate dentate
Ch18_4a_11_96	Elongate thick
Ch18_4a_11_97	Elongate entire
Ch18_4a_11_98	Blocky
Ch18_4a_11_99	Elongate entire
Ch18_4a_11_100	Elongate entire
Ch18_4a_11_101	Elongate entire
Ch18_4a_11_102	Elongate entire
Ch18_4a_11_103	Acute bulbosus

Ch18_4a_11_104	Crenate
Ch18_4a_11_105	Rondel
Ch18_4a_11_106	Elongate entire
Ch18_4a_11_107	Acute bulbosus
Ch18_4a_11_108	Rondel
Ch18_4a_11_109	Acute bulbosus
Ch18_4a_11_110	Elongate entire
Ch18_4a_11_111	Trapezoid
Ch18_4a_11_112	Elongate dentate
Ch18_4a_11_113	Elongate entire
Ch18_4a_11_114	Elongate entire
Ch18_4a_11_115	Blocky
Ch18_4a_11_116	Elongate entire
Ch18_4a_11_117	Elongate dentate
Ch18_4a_11_118	Crenate
Ch18_4a_11_119	Rondel
Ch18_4a_11_120	Elongate entire
Ch18_4a_11_121	Crenate
Ch18_4a_11_122	Acute bulbosus
Ch18_4a_11_123	Elongate entire
Ch18_4a_11_124	Acute bulbosus
Ch18_4a_11_125	Rondel
Ch18_4a_11_126	Acute bulbosus
Ch18_4a_11_127	Acute bulbosus
Ch18_4a_11_128	Elongate entire
Ch18_4a_11_129	Elongate entire
Ch18_4a_11_130	Acute bulbosus
Ch18_4a_11_131	WM

Ch18_4a_12

Sample no	Identifications
Ch18_4a_12_1	Elongate entire
Ch18_4a_12_2	Elongate entire
Ch18_4a_12_3	Elongate sinuate
Ch18_4a_12_4	Elongate entire
Ch18_4a_12_5	Elongate entire
Ch18_4a_12_6	Elongate entire
Ch18_4a_12_7	Elongate entire

Ch18_4a_12_8	Elongate entire
Ch18_4a_12_9	Elongate entire
Ch18_4a_12_10	Elongate entire
Ch18_4a_12_11	Elongate entire
Ch18_4a_12_12	WM
Ch18_4a_12_13	WM
Ch18_4a_12_14	Elongate entire
Ch18_4a_12_15	Elongate entire?
Ch18_4a_12_16	Rondel

Ch18_4a_12_17	Rondel?
Ch18_4a_12_18	Elongate entire
Ch18_4a_12_19	Elongate entire
Ch18_4a_12_20	Elongate entire
Ch18_4a_12_21	Elongate thick
Ch18_4a_12_22	Elongate entire
Ch18_4a_12_23	Elongate
Ch18_4a_12_24	Elongate entire

Ch18_4a_14

Sample no	Identifications
Ch18_4a_14_1	Irregular psilate
Ch18_4a_14_2	Elongate dendritic
Ch18_4a_14_3	Polylobate
Ch18_4a_14_4	Elongate?
Ch18_4a_14_5	WM

Ch18_4a_14_6	WM
Ch18_4a_14_7	Crenate
Ch18_4a_14_8	Elongate entire
Ch18_4a_14_9	Rondel?
Ch18_4a_14_10	WM
Ch18_4a_14_11	Rondel?
Ch18_4a_14_12	Acute bulbosus

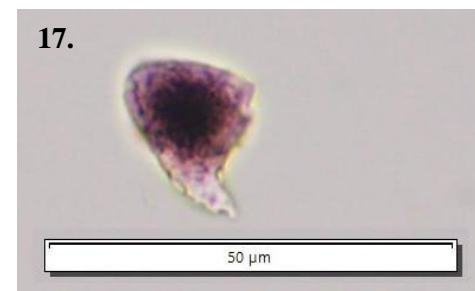
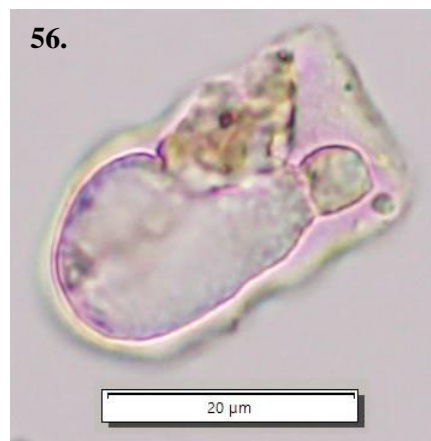
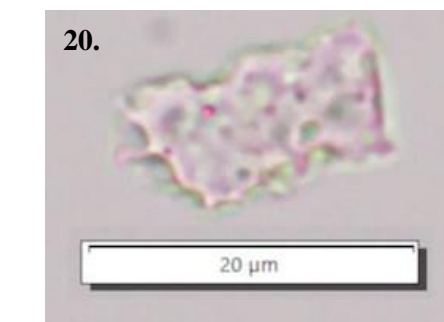
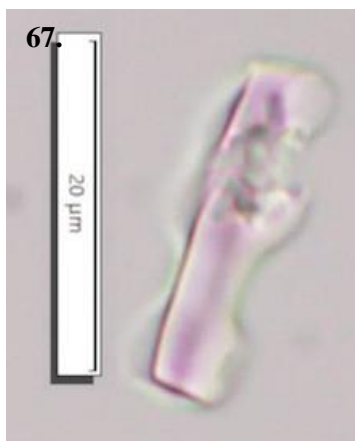
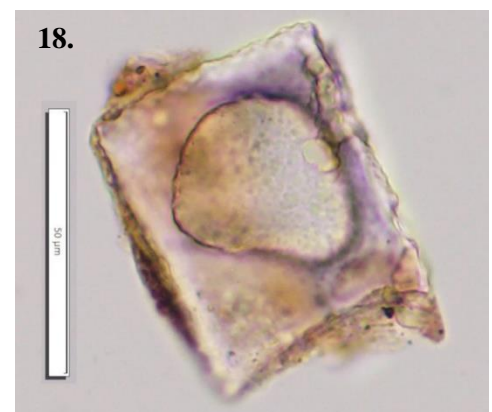
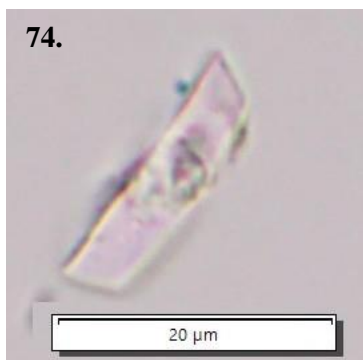
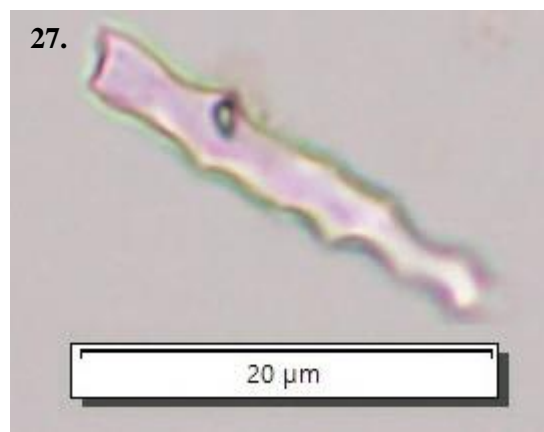
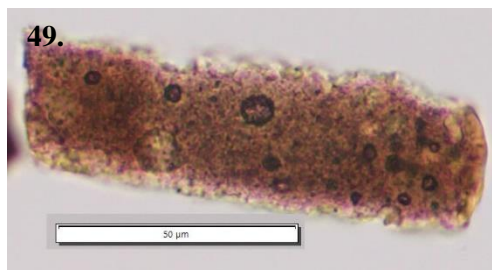
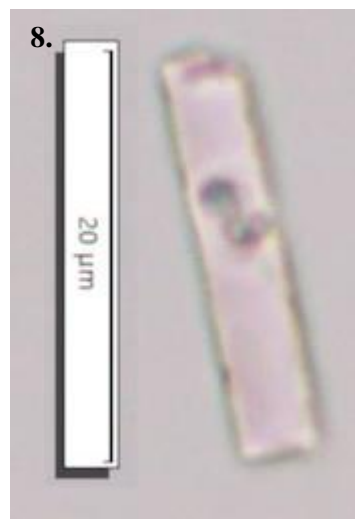
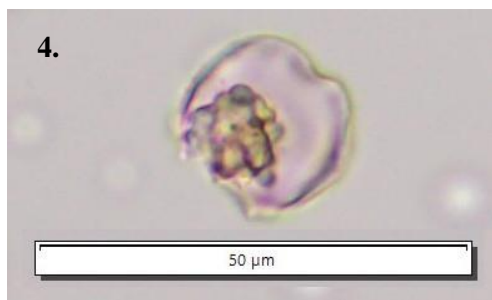
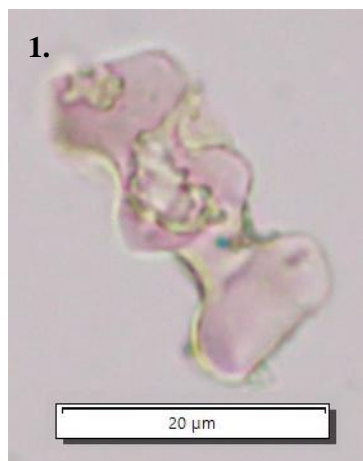
Ch18_4a_14_13	Rondel
Ch18_4a_14_14	Rondel
Ch18_4a_14_15	Rondel?
Ch18_4a_14_16	WM
Ch18_4a_14_17	Rondel?
Ch18_4a_14_18	Acute bulbosus
Ch18_4a_14_19	Blocky?

Ch18_4a_14_20	Elongate entire
Ch18_4a_14_21	Elongate dentate
Ch18_4a_14_22	WM
Ch18_4a_14_23	WM
Ch18_4a_14_24	Elongate entire
Ch18_4a_14_25	Bilobate

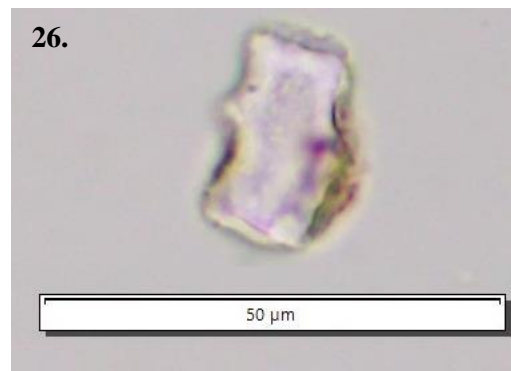
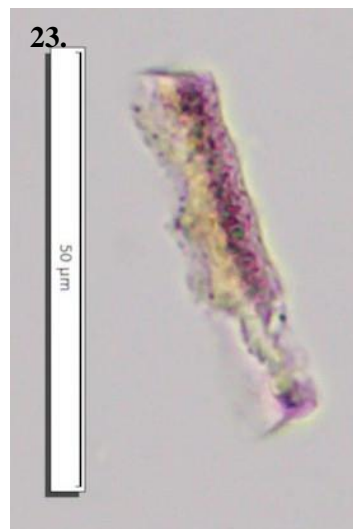
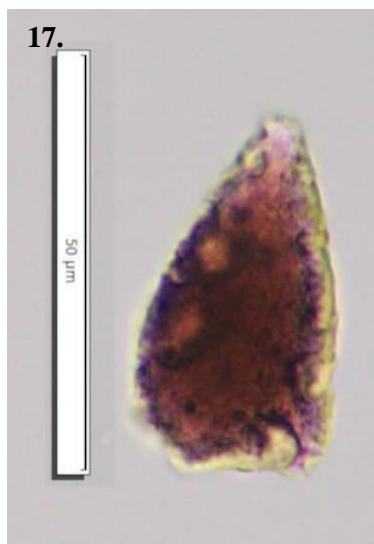
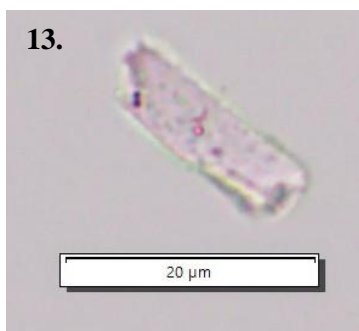
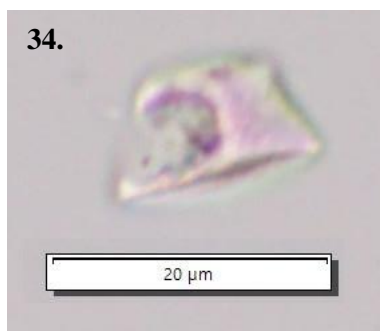
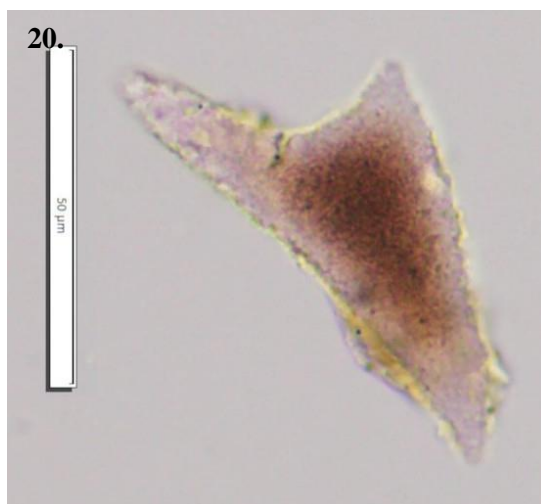
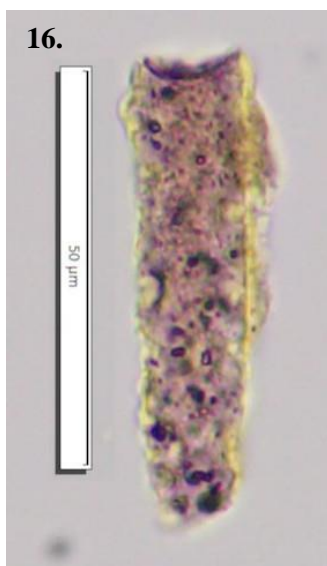
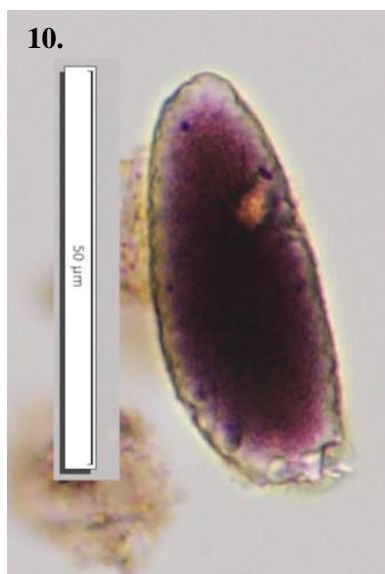
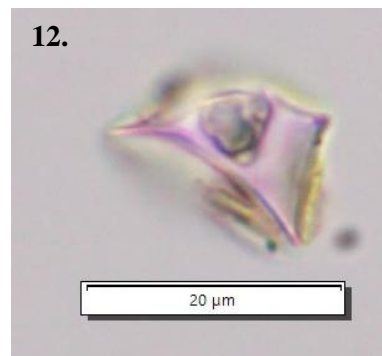
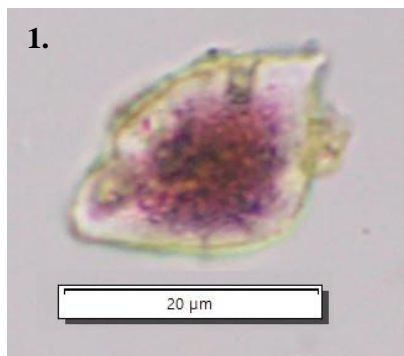
Ch18_4a_14_26	Crenate
Ch18_4a_14_27	WN
Ch18_4a_14_28	Elongate dentate
Ch18_4a_14_29	WM
Ch18_4a_14_30	Elongate entire
Ch18_4a_14_31	WM

Ch18_4a_14_32	Elongate dentate
Ch18_4a_14_33	Rondel
Ch18_4a_14_34	Trapezoid
Ch18_4a_14_35	Elongate entire

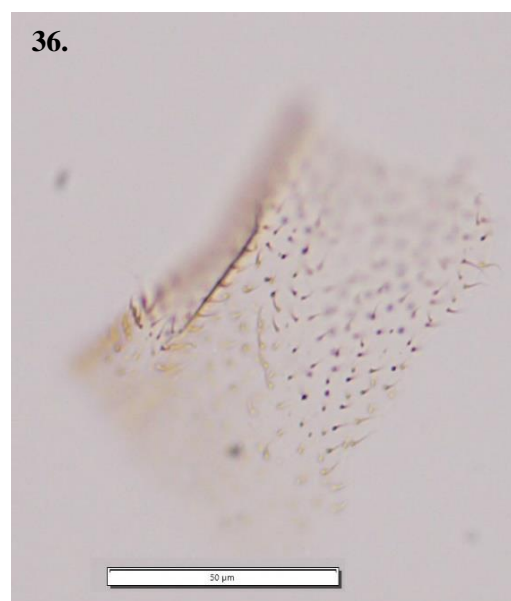
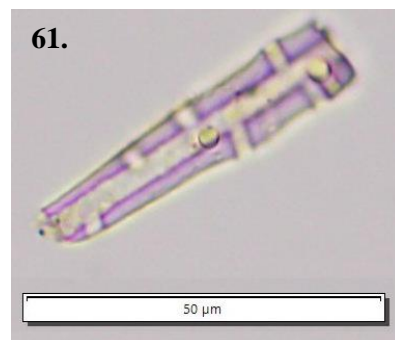
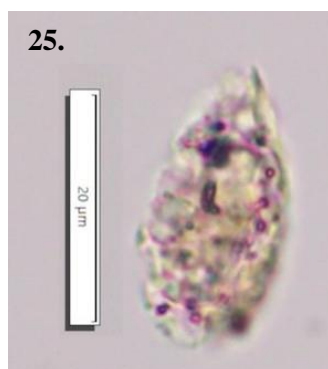
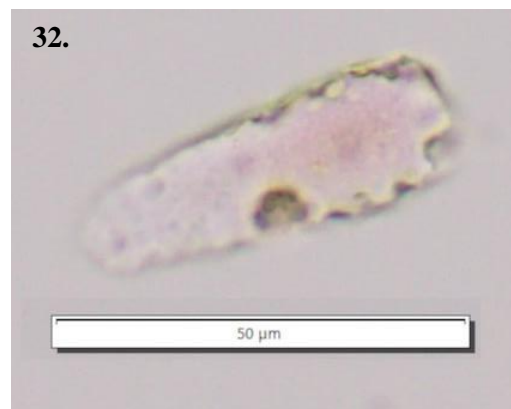
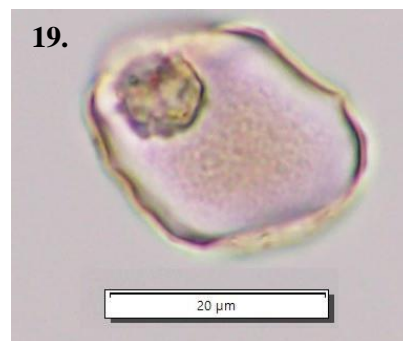
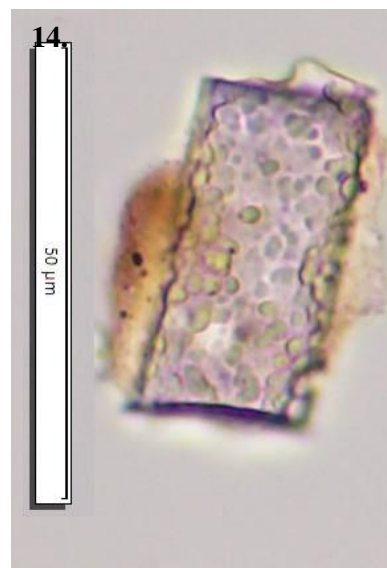
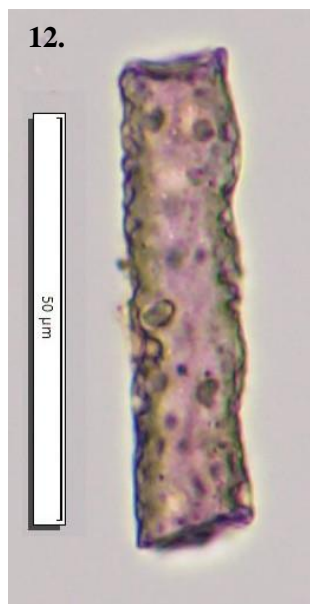
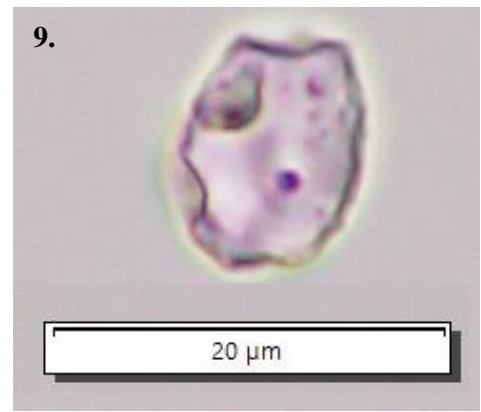
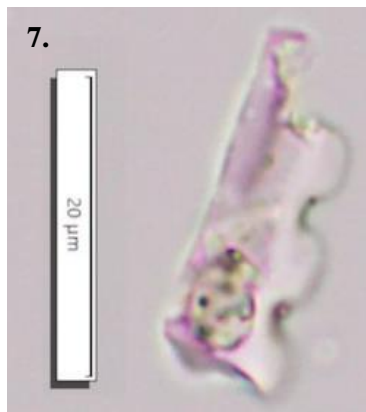
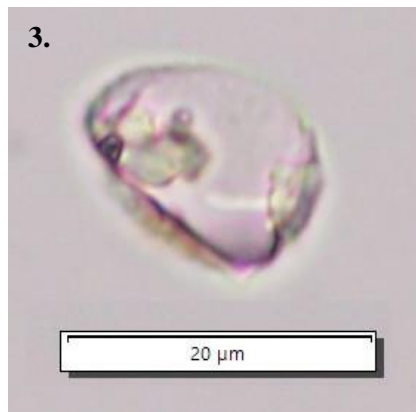
Ryc. 1 Obiekt 4a próba 1, numery zdjęć odpowiadają numerom zidentyfikowanych fitytolitów w tabeli 4a_1
Fig. 1 Feature 4a sample 1, the number of the photo relates to the number of the phytolith in the table 4a_1



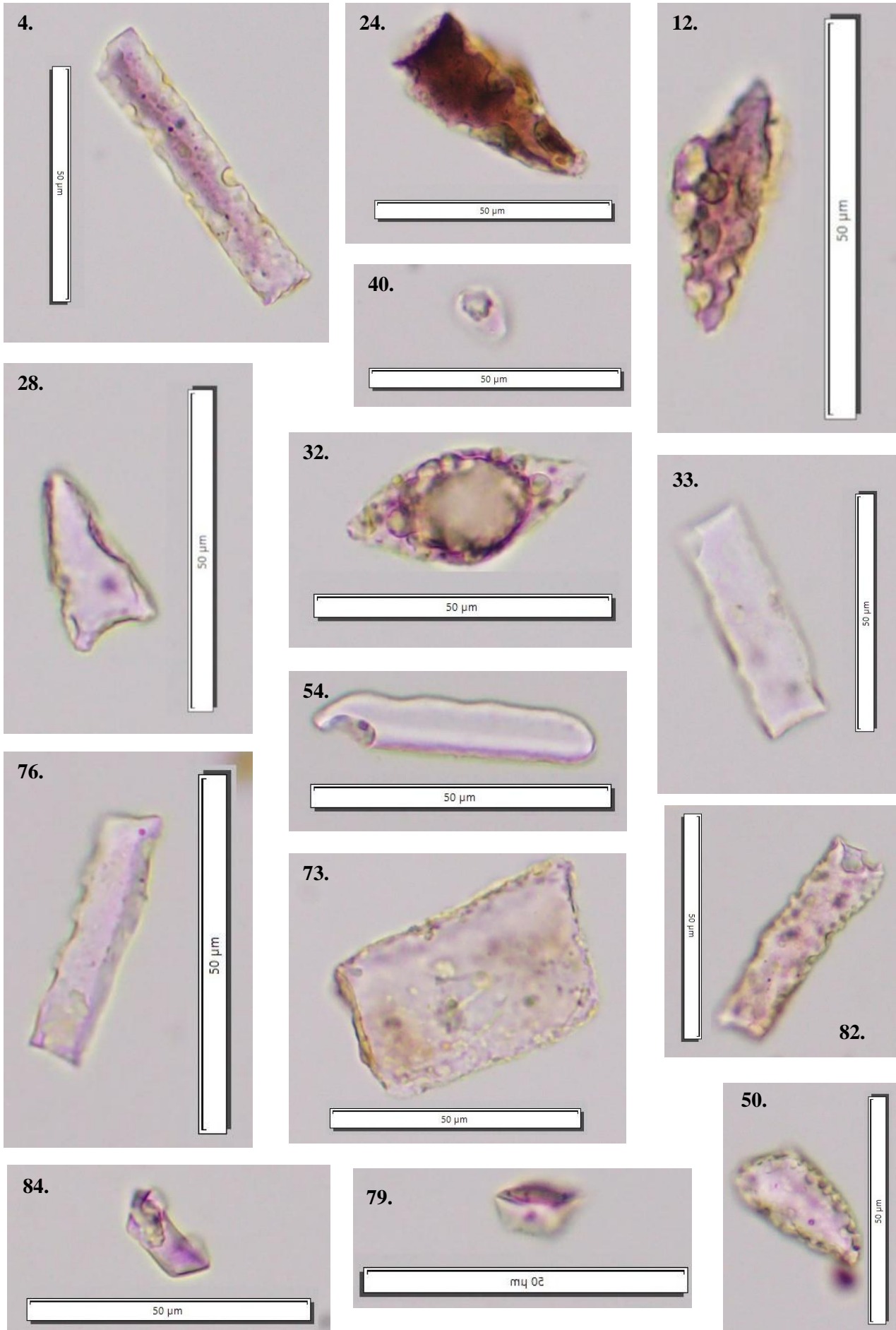
Ryc. 2 Obiekt 4a próba 2, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 4a_2
Fig. 2 Feature 4a sample 2, the number of the photo relates to the number of the phytolith in the table 4a_2



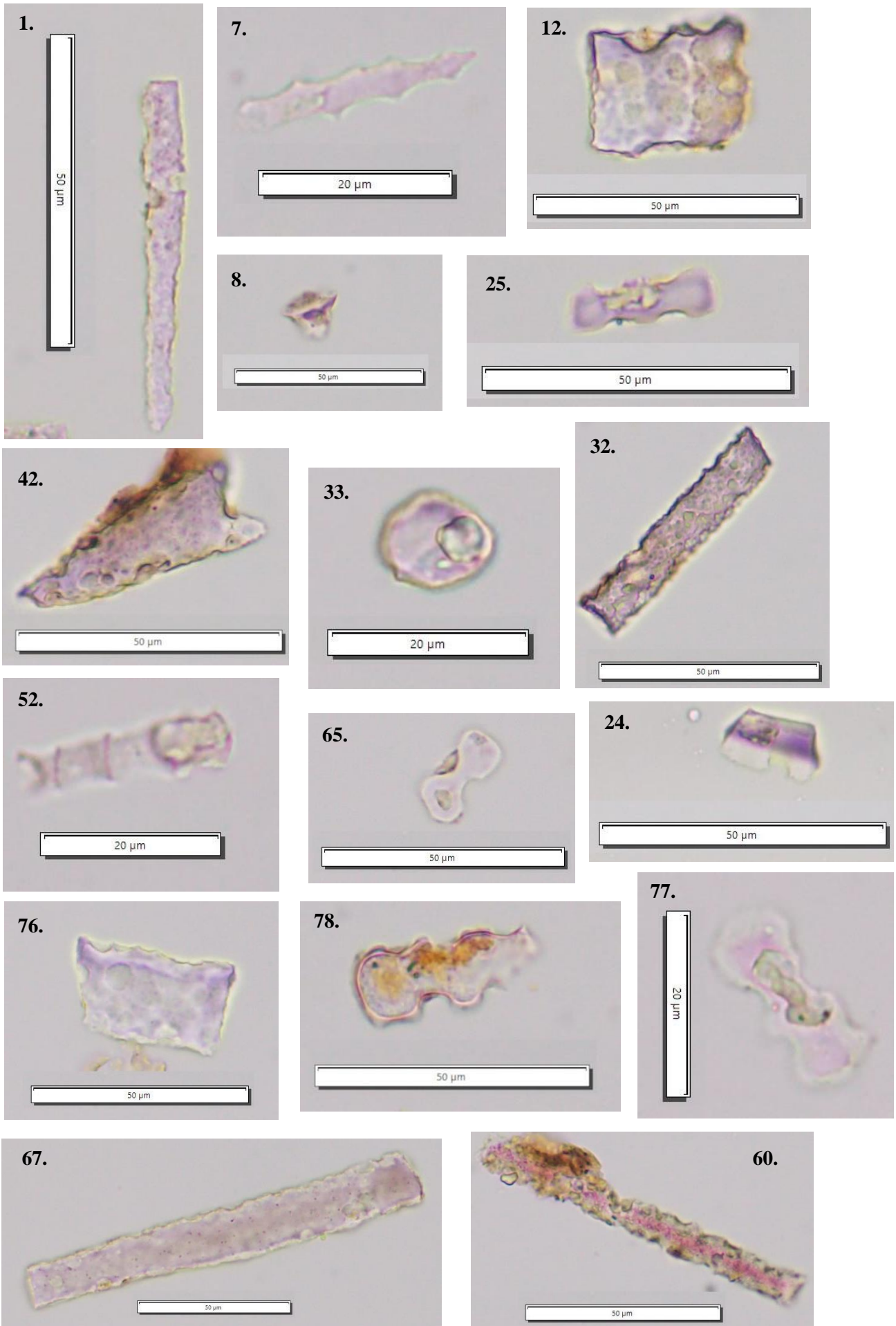
Ryc. 3 Obiekt 4a próba 3, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 4a_3
Fig. 3 Feature 4a sample 3, the number of the photo relates to the number of the phytolith in the table 4a_3



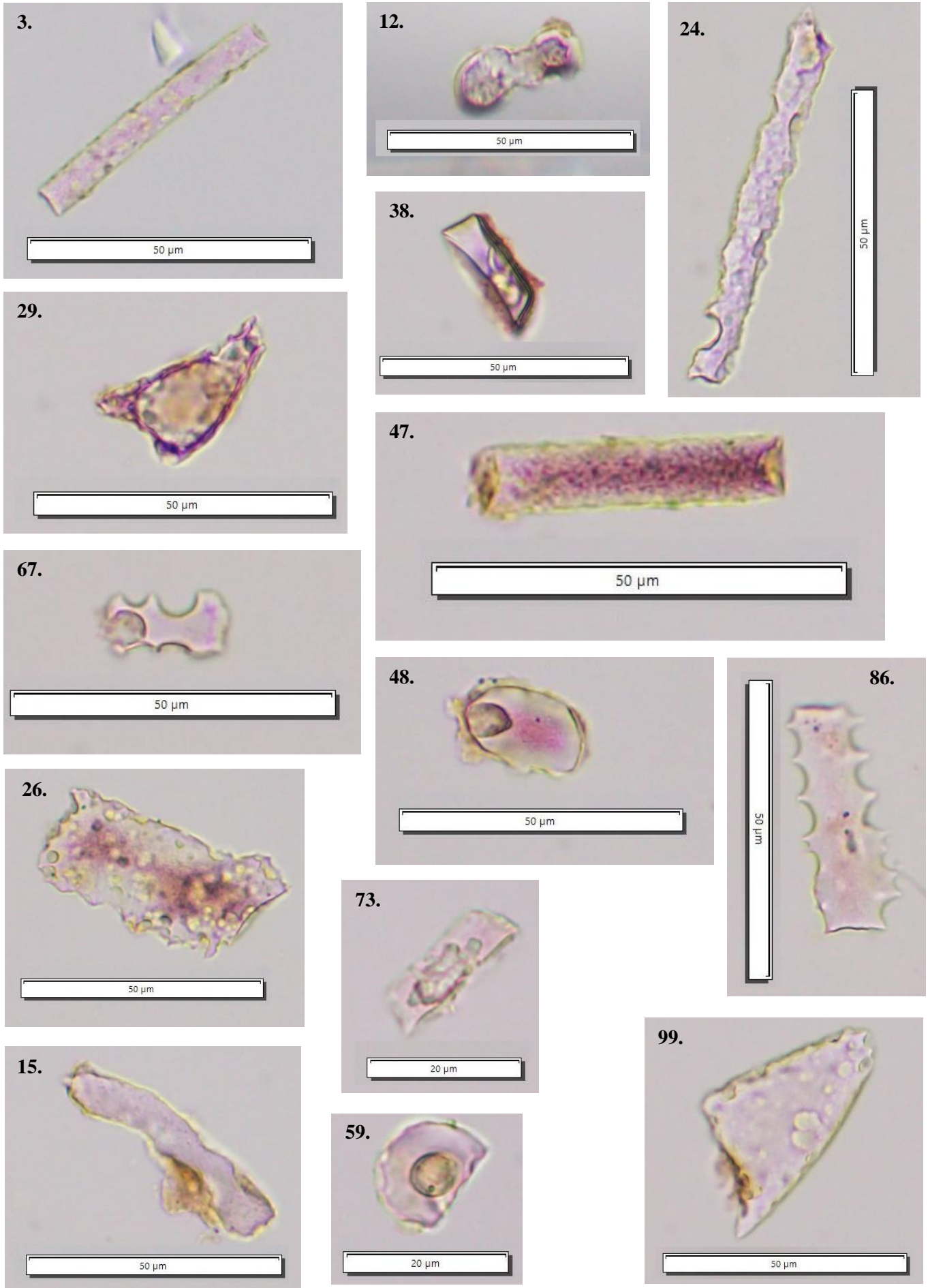
Ryc. 4 Obiekt 4a próba 4, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 4a_4
Fig. 4 Feature 4a sample 4, the number of the photo relates to the number of the phytolith in the table 4a_4



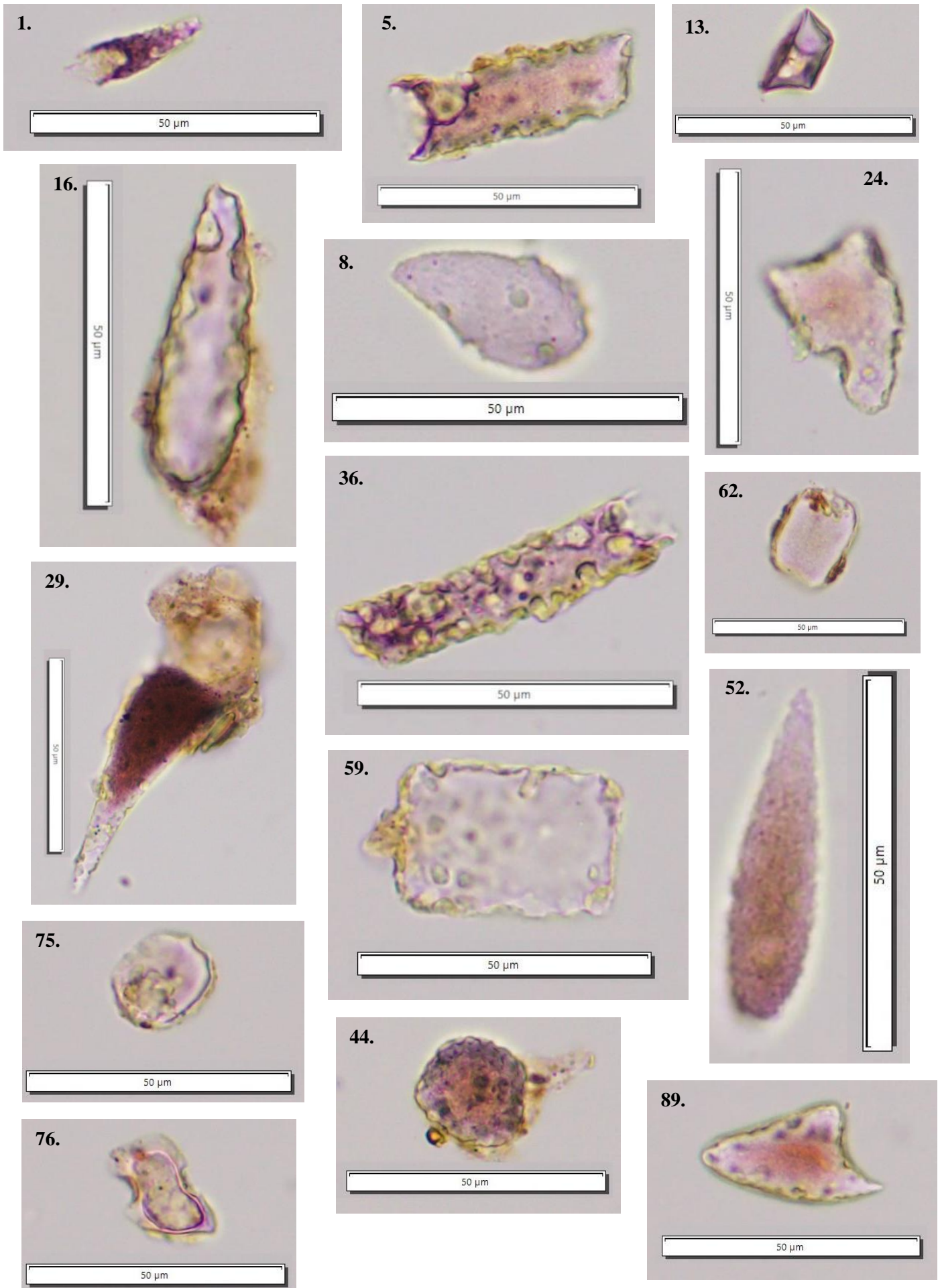
Ryc. 5 Obiekt 4a próba 5, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 4a_5
Fig. 5 Feature 4a sample 5, the number of the photo relates to the number of the phytolith in the table 4a_5



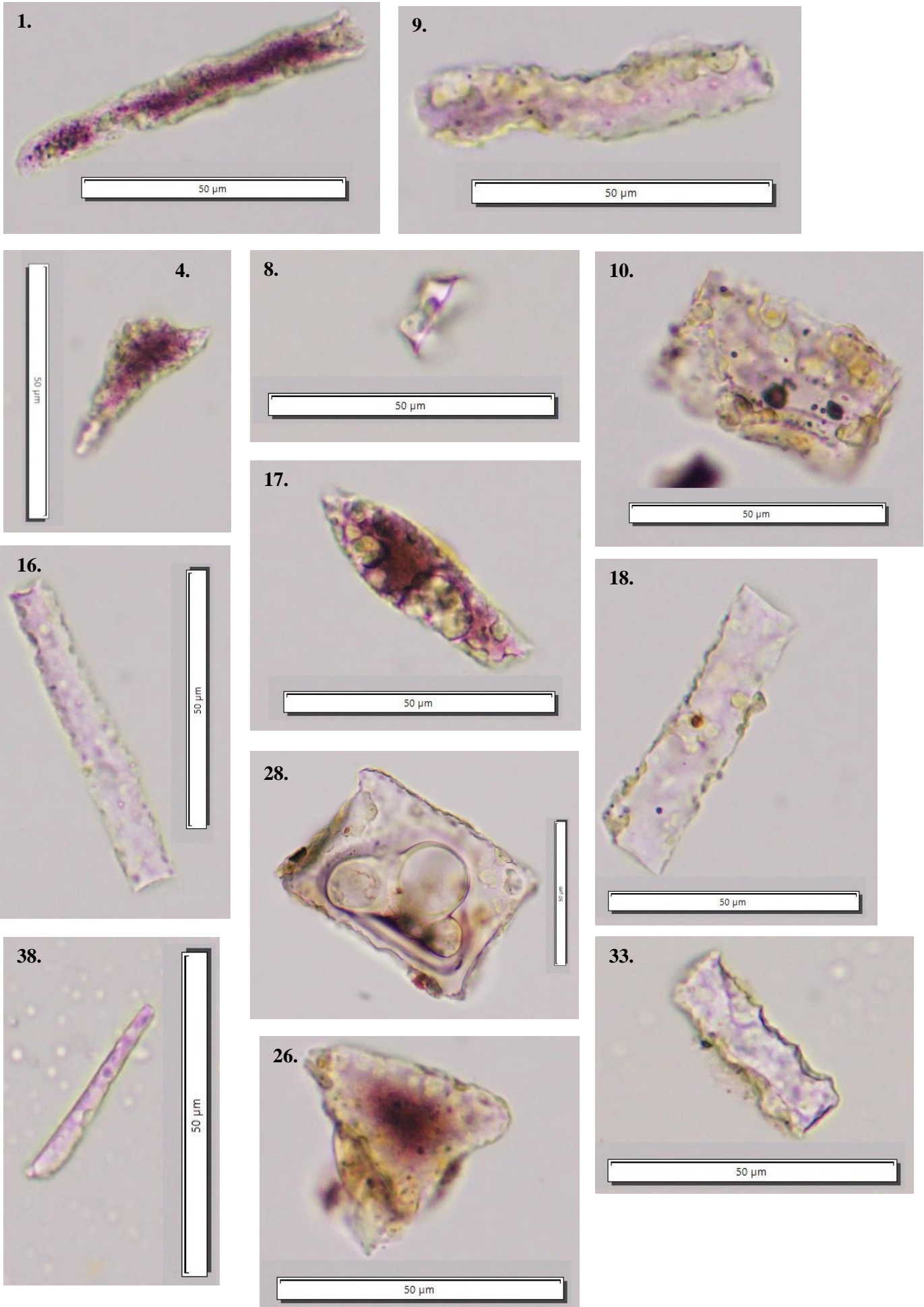
Ryc. 6 Obiekt 4a próba 6, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 4a_6
Fig. 6 Feature 4a sample 6, the number of the photo relates to the number of the phytolith in the table 4a_6



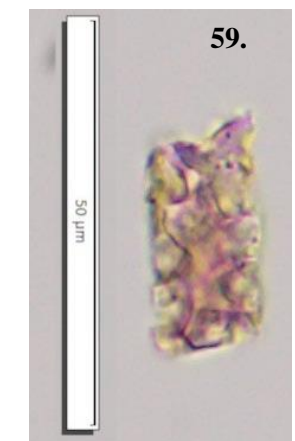
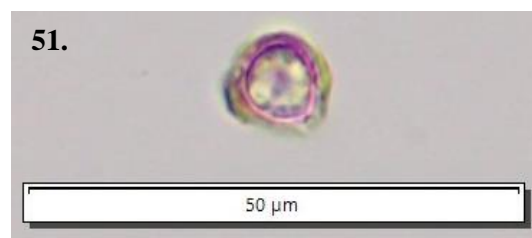
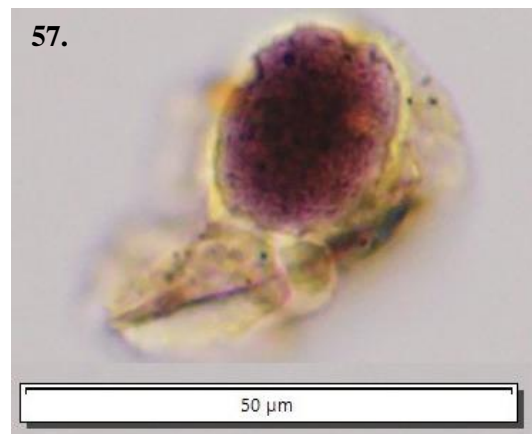
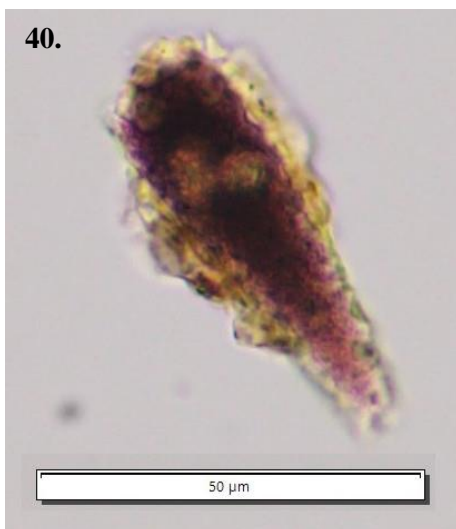
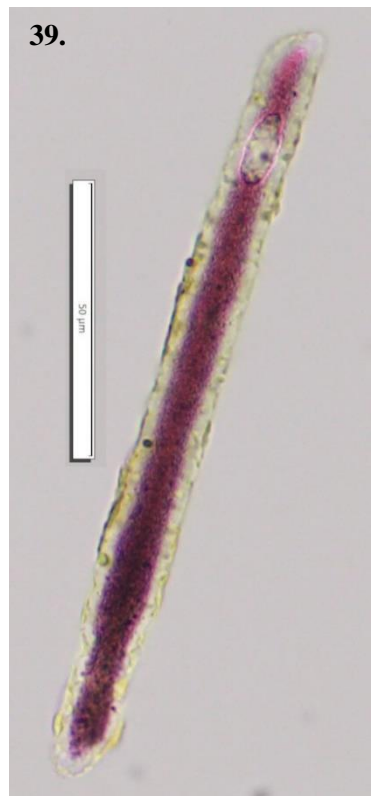
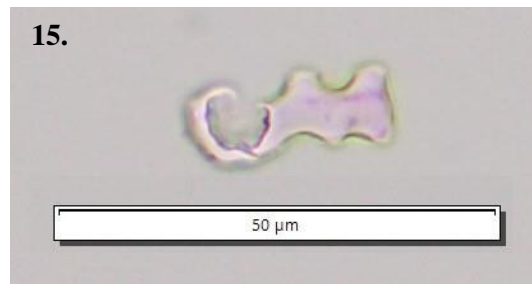
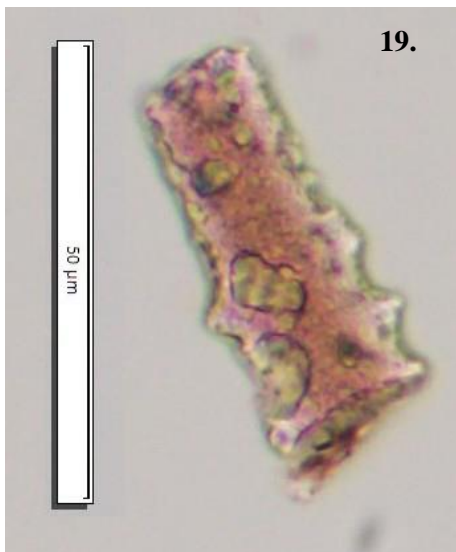
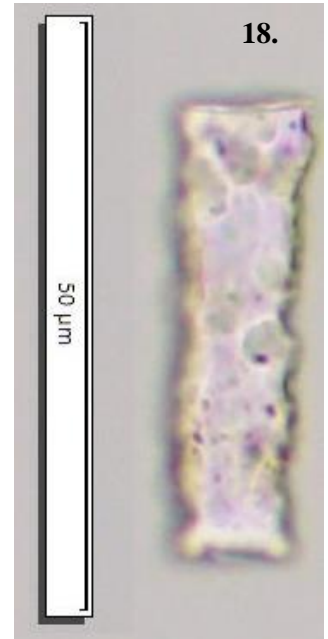
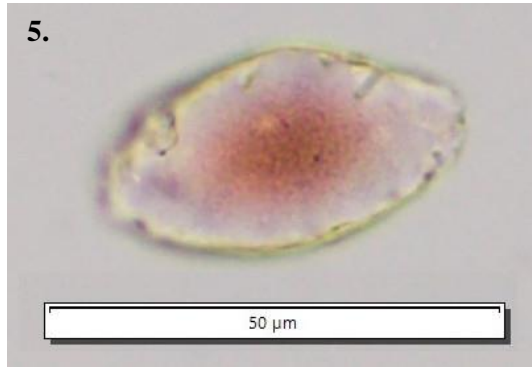
Ryc. 7 Obiekt 4a próba 7, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 4a_7
Fig. 7 Feature 4a sample 7, the number of the photo relates to the number of the phytolith in the table 4a_7



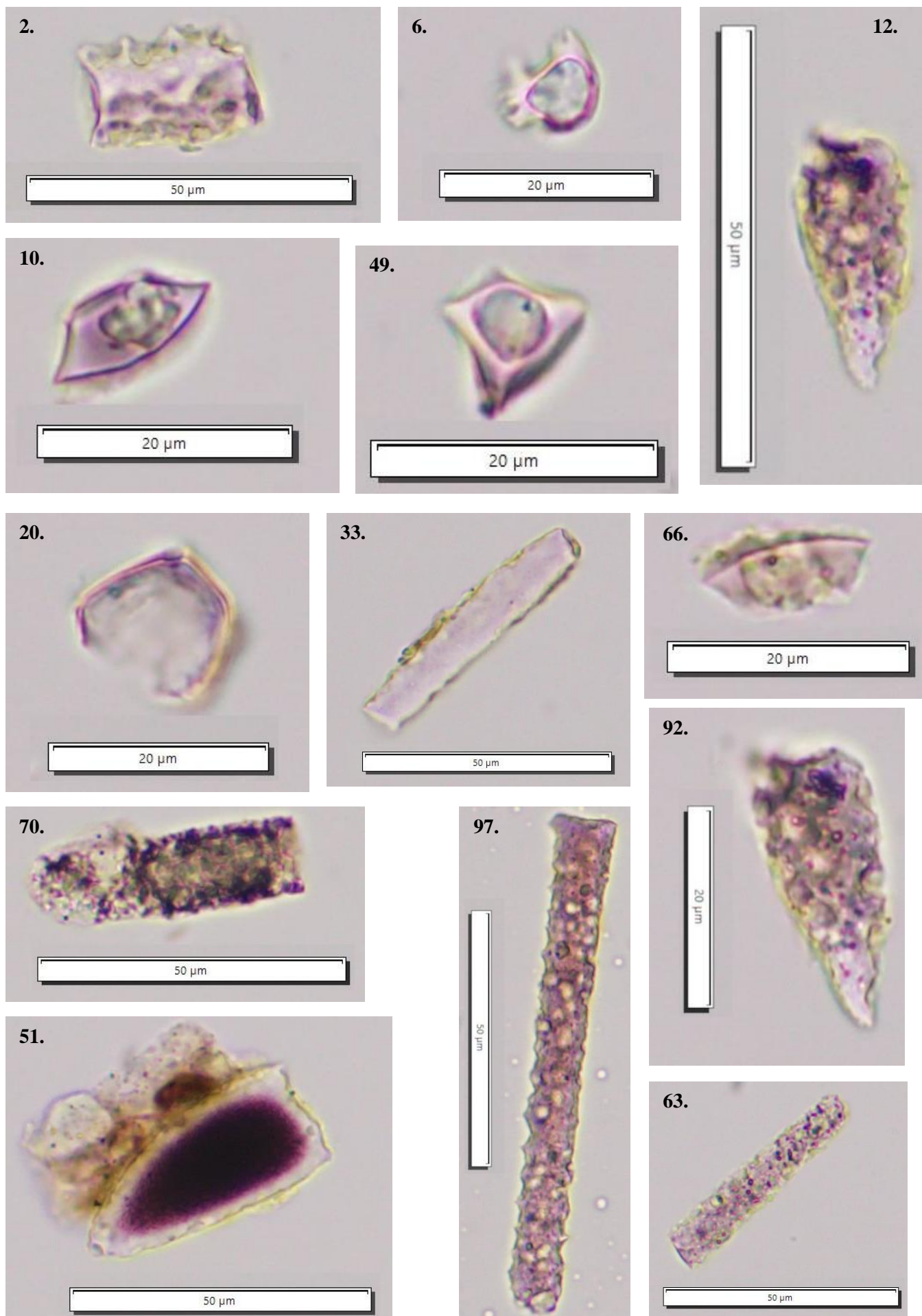
Ryc. 8 Obiekt 4a próba 8, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 4a_8
Fig. 8 Feature 4a sample 8, the number of the photo relates to the number of the phytolith in the table 4a_8



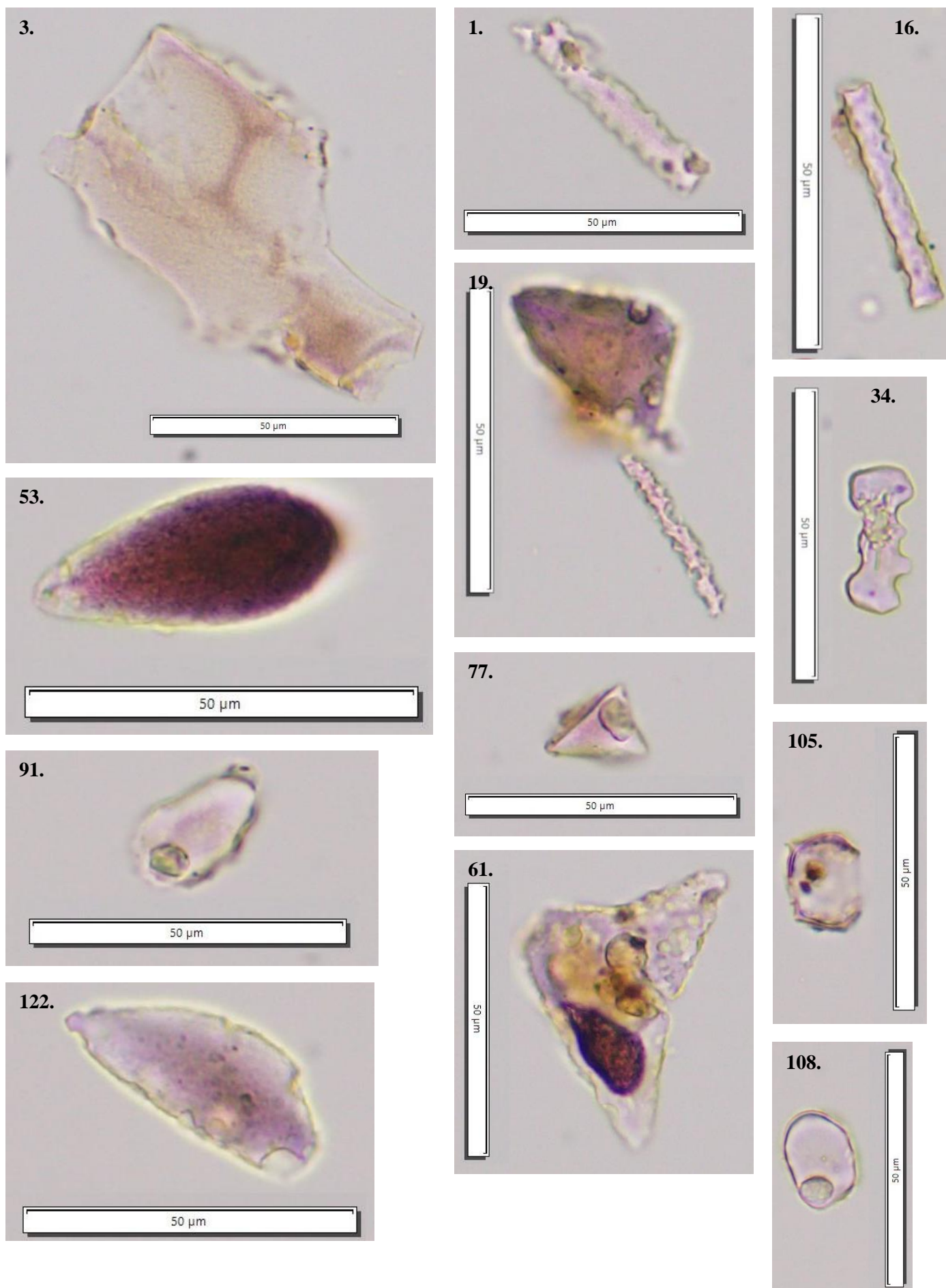
Ryc. 9 Obiekt 4a próba 9, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 4a_9
Fig. 9 Feature 4a sample 9, the number of the photo relates to the number of the phytolith in the table 4a_9



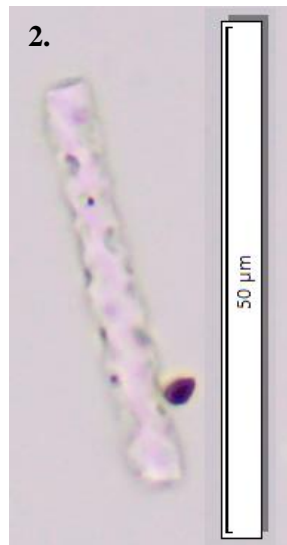
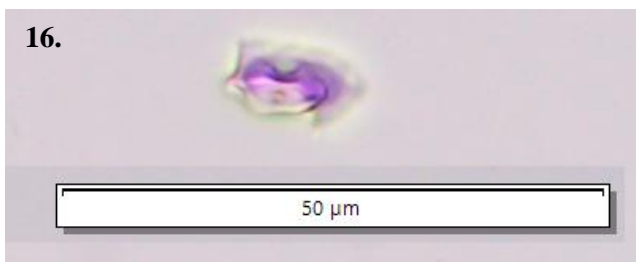
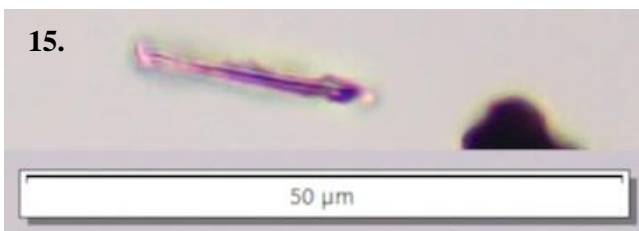
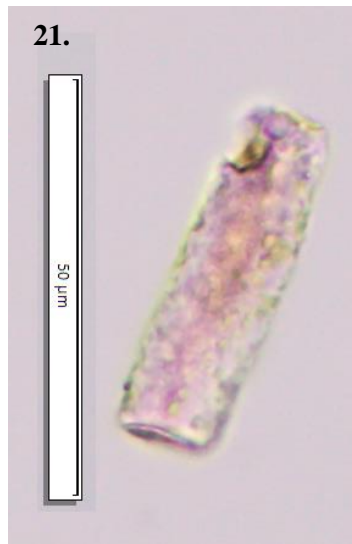
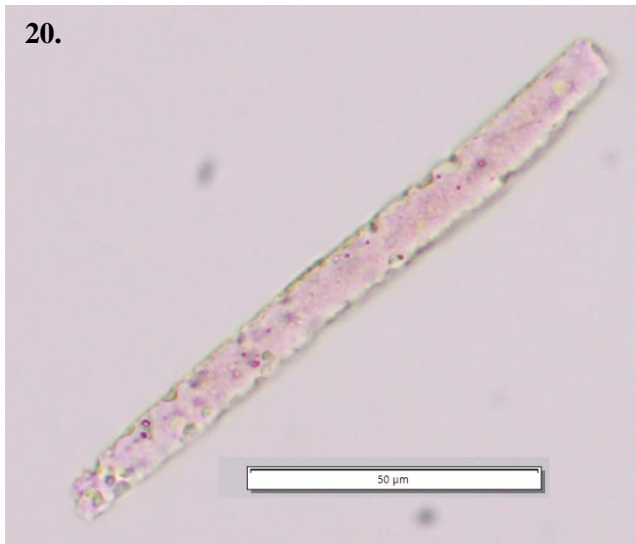
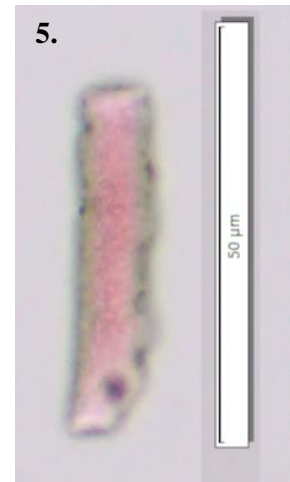
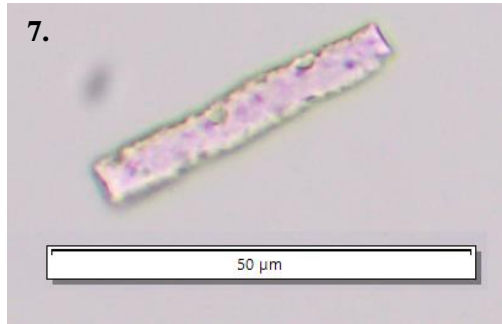
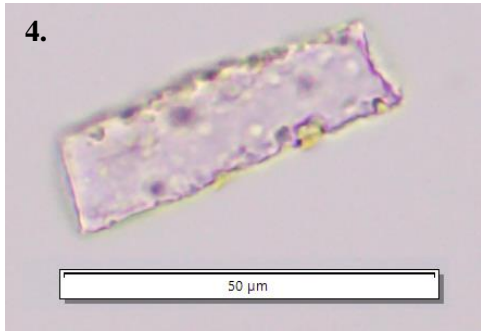
Ryc. 10 Obiekt 4a próba 10, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 4a_10
Fig. 10 Feature 4a sample 10, the number of the photo relates to the number of the phytolith in the table 4a_10



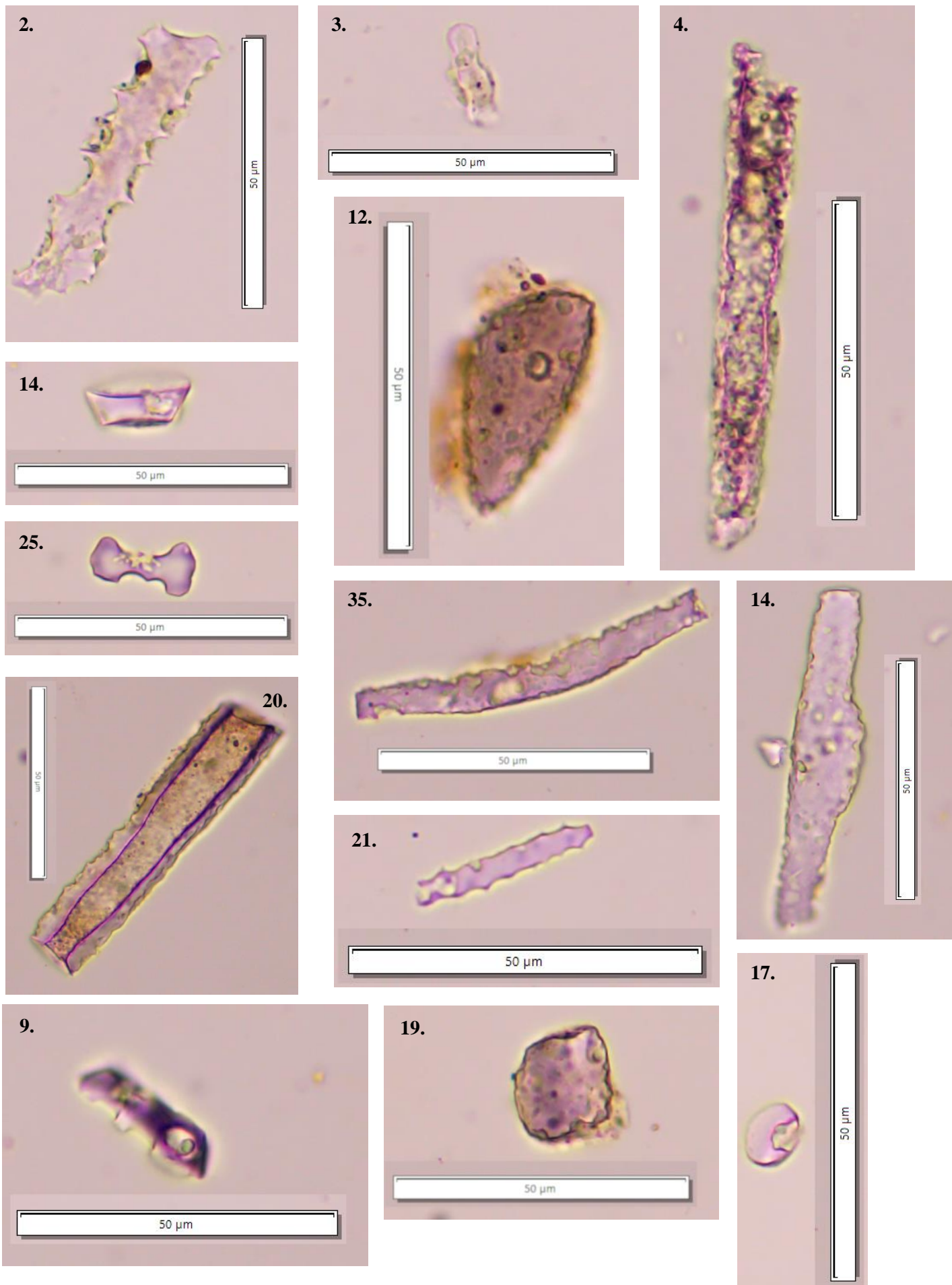
Ryc. 11 Obiekt 4a próba 11, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 4a_11
Fig. 11 Feature 4a sample 11, the number of the photo relates to the number of the phytolith in the table 4a_11



Ryc. 12 Obiekt 4a próba 12, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 4a_12
Fig. 12 Feature 4a sample 12, the number of the photo relates to the number of the phytolith in the table 4a_12



Ryc. 13 Obiekt 4a próba 14, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 4a_14
Fig. 13 Feature 4a sample 14, the number of the photo relates to the number of the phytolith in the table 4a_14



OBIEKT/FEATURE 4b

Ch18_4b_4	
Sample no	Identifications
Ch18_4b_4_1	Elongate thick
Ch18_4b_4_2	Elongate entire?
Ch18_4b_4_3	Bilobate
Ch18_4b_4_4	Elongate entire
Ch18_4b_4_5	Acute bulbosus
Ch18_4b_4_6	Elongate entire
Ch18_4b_4_7	Elongate entire
Ch18_4b_4_8	Elongate entire
Ch18_4b_4_9	Tracheary?
Ch18_4b_4_10	Elongate entire
Ch18_4b_4_11	WM
Ch18_4b_4_12	Crenate
Ch18_4b_4_13	WM

Ch18_4b_4_14	WM
Ch18_4b_4_15	Rondel
Ch18_4b_4_16	Acute bulbosus
Ch18_4b_4_17	Elongate thick
Ch18_4b_4_18	WM
Ch18_4b_4_19	Elongate entire
Ch18_4b_4_20	Elongate entire
Ch18_4b_4_21	Elongate entire
Ch18_4b_4_22	Trapezoid
Ch18_4b_4_23	Acute bulbosus
Ch18_4b_4_24	Acute bulbosus
Ch18_4b_4_25	Acute bulbosus
Ch18_4b_4_26	Blocky
Ch18_4b_4_27	Elongate entire
Ch18_4b_4_28	WM

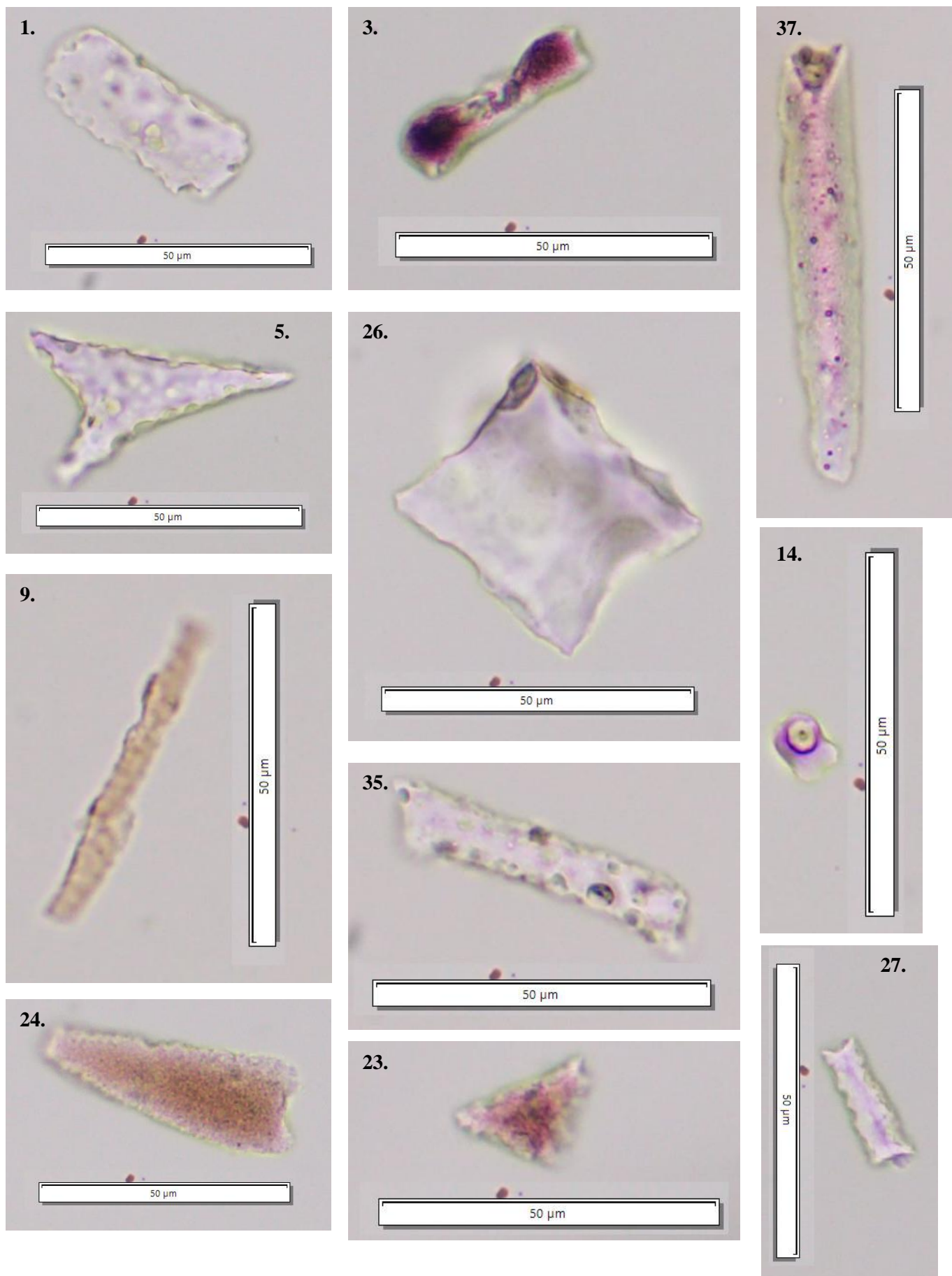
Ch18_4b_4_29	Elongate thick
Ch18_4b_4_30	Elongate entire
Ch18_4b_4_31	Bilobate
Ch18_4b_4_32	WM
Ch18_4b_4_33	Acute bulbosus
Ch18_4b_4_34	Elongate entire
Ch18_4b_4_35	Elongate entire
Ch18_4b_4_36	Elongate entire
Ch18_4b_4_37	Elongate entire
Ch18_4b_4_38	Acute bulbosus
Ch18_4b_4_39	Acute bulbosus
Ch18_4b_4_40	WM
Ch18_4b_4_41	Elongate entire

Ch18_4b_15	
Sample no	Identifications
Ch18_4b_15_1	Rondel
Ch18_4b_15_2	Elongate entire
Ch18_4b_15_3	Rondel
Ch18_4b_15_4	Elongate thick
Ch18_4b_15_5	Rondel conical
Ch18_4b_15_6	Elongate entire
Ch18_4b_15_7	Elongate entire
Ch18_4b_15_8	Trapezoid
Ch18_4b_15_9	WM
Ch18_4b_15_10	Rondel
Ch18_4b_15_11	Elongate entire
Ch18_4b_15_12	Bilobate
Ch18_4b_15_13	Crenate
Ch18_4b_15_14	Elongate entire
Ch18_4b_15_15	Blocky
Ch18_4b_15_16	Elongate entire
Ch18_4b_15_17	Elongate entire
Ch18_4b_15_18	Rondel conical
Ch18_4b_15_19	Elongate entire
Ch18_4b_15_20	Rondel

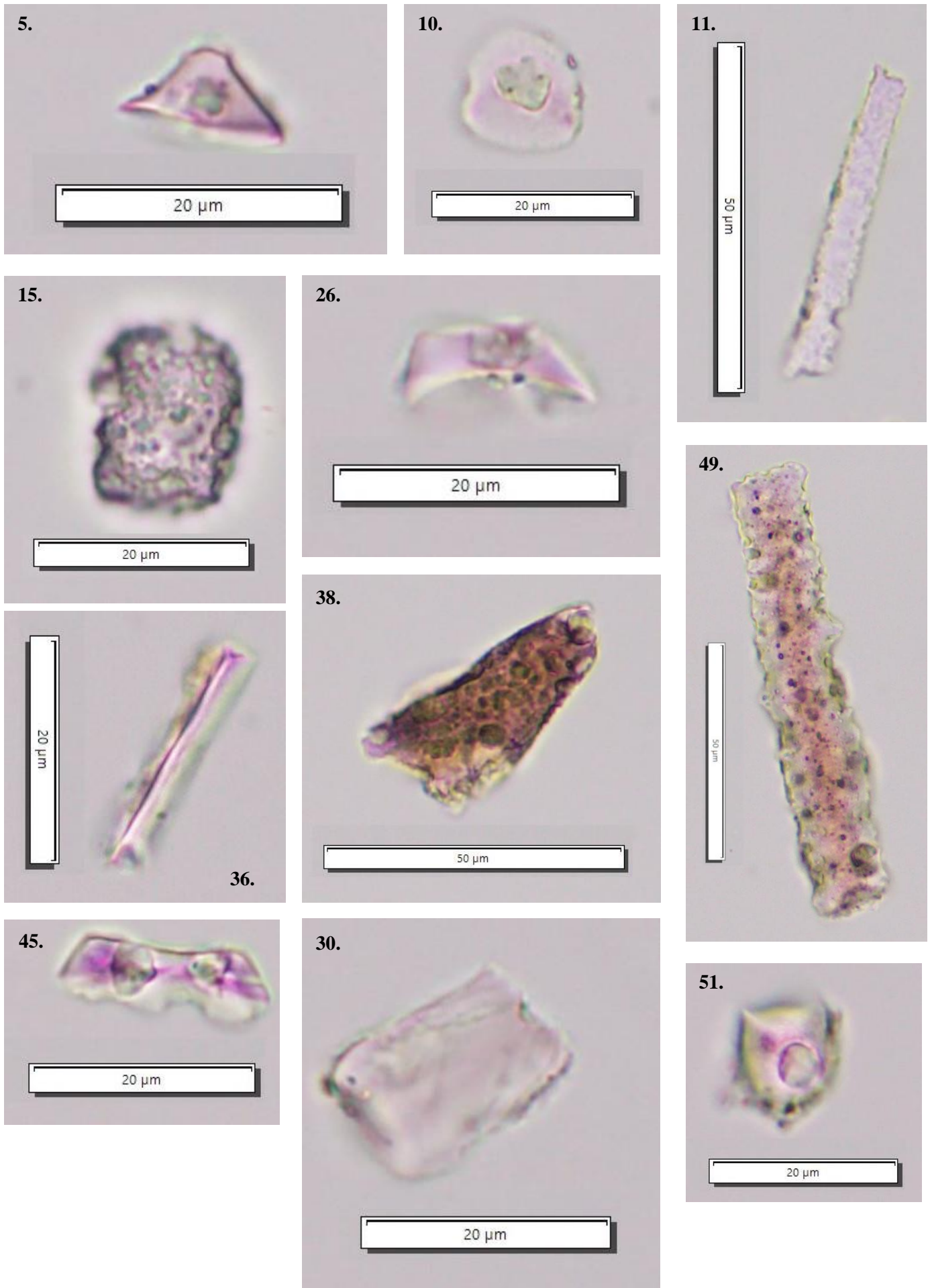
Ch18_4b_15_21	Blocky
Ch18_4b_15_22	Rondel
Ch18_4b_15_23	Elongate entire
Ch18_4b_15_24	Elongate entire
Ch18_4b_15_25	Elongate entire
Ch18_4b_15_26	Rondel
Ch18_4b_15_27	Elongate entire
Ch18_4b_15_28	Elongate entire
Ch18_4b_15_29	Elongate entire
Ch18_4b_15_30	Blocky
Ch18_4b_15_31	Elongate entire
Ch18_4b_15_32	Blocky
Ch18_4b_15_33	Acute bulbosus
Ch18_4b_15_34	WM
Ch18_4b_15_35	Rondel
Ch18_4b_15_36	Crenate
Ch18_4b_15_37	Rondel
Ch18_4b_15_38	Acute bulbosus
Ch18_4b_15_39	WM
Ch18_4b_15_40	Rondel
Ch18_4b_15_41	Rondel
Ch18_4b_15_42	Elongate entire

Ch18_4b_15_43	Elongate entire
Ch18_4b_15_44	Elongate entire
Ch18_4b_15_45	Crenate
Ch18_4b_15_46	Elongate entire
Ch18_4b_15_47	WM
Ch18_4b_15_48	Rondel
Ch18_4b_15_49	Elongate dentate
Ch18_4b_15_50	Elongate entire
Ch18_4b_15_51	Rondel
Ch18_4b_15_52	Elongate dentate
Ch18_4b_15_53	Elongate entire
Ch18_4b_15_54	Elongate entire
Ch18_4b_15_55	Acute bulbosus
Ch18_4b_15_56	Acute bulbosus
Ch18_4b_15_57	Elongate entire
Ch18_4b_15_58	Rondel
Ch18_4b_15_59	Elongate entire
Ch18_4b_15_60	Elongate entire
Ch18_4b_15_61	Elongate entire
Ch18_4b_15_62	Acute bulbosus
Ch18_4b_15_63	Elongate entire

Ryc. 14 Obiekt 4b próba 4, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 4b_4
Fig. 14 Feature 4b sample 4, the number of the photo relates to the number of the phytolith in the table 4b_4



Ryc. 15 Obiekt 4b próba 15, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 4b_15
Fig. 15 Feature 4b sample 15, the number of the photo relates to the number of the phytolith in the table 4b_15



OBIEKT/FEATURE 6

Ch18_6_3	
Sample no	Identifications
Ch18_6_3_1	Elongate dentate
Ch18_6_3_2	Rondel
Ch18_6_3_3	Elongate entire
Ch18_6_3_4	Crenate
Ch18_6_3_5	Acute bulbosus
Ch18_6_3_6	Elongate entire
Ch18_6_3_7	Crenate
Ch18_6_3_8	Rondel
Ch18_6_3_9	Rondel

Ch18_6_3_10	Elongate entire
Ch18_6_3_11	Elongate entire
Ch18_6_3_12	Elongate entire
Ch18_6_3_13	Blocky
Ch18_6_3_14	Rondel
Ch18_6_3_15	Elongate entire
Ch18_6_3_16	Rondel
Ch18_6_3_17	Acute bulbosus
Ch18_6_3_18	Elongate entire
Ch18_6_3_19	Rondel
Ch18_6_3_20	Acute bulbosus

Ch18_6_3_21	WM
Ch18_6_3_22	Acute bulbosus
Ch18_6_3_23	Elongate entire
Ch18_6_3_24	WM
Ch18_6_3_25	Elongate entire
Ch18_6_3_26	Acute bulbosus
Ch18_6_3_27	Acute bulbosus
Ch18_6_3_28	Elongate entire
Ch18_6_3_29	Rondel
Ch18_6_3_30	Elongate entire

Ch18_6_4	
Sample no	Identifications
Ch18_6_4_1	Elongate entire
Ch18_6_4_2	Acute bulbosus
Ch18_6_4_3	WM
Ch18_6_4_4	Elongate entire
Ch18_6_4_5	Crenate
Ch18_6_4_6	Elongate entire
Ch18_6_4_7	Elongate entire
Ch18_6_4_8	Elongate entire
Ch18_6_4_9	Elongate entire
Ch18_6_4_10	Polylobate
Ch18_6_4_11	Elongate entire
Ch18_6_4_12	WM
Ch18_6_4_13	Elongate entire
Ch18_6_4_14	Elongate entire
Ch18_6_4_15	Elongate entire
Ch18_6_4_16	Acute bulbosus
Ch18_6_4_17	Elongate entire
Ch18_6_4_18	Elongate entire
Ch18_6_4_19	Acute bulbosus
Ch18_6_4_20	Acute bulbosus
Ch18_6_4_21	Acute bulbosus
Ch18_6_4_22	Rondel
Ch18_6_4_23	Elongate thick
Ch18_6_4_24	Elongate entire
Ch18_6_4_25	Elongate entire
Ch18_6_4_26	Acute bulbosus
Ch18_6_4_27	Rondel
Ch18_6_4_28	Elongate entire
Ch18_6_4_29	Acute bulbosus

Ch18_6_4_30	Rondel
Ch18_6_4_31	Elongate entire
Ch18_6_4_32	Elongate entire
Ch18_6_4_33	Elongate dentate
Ch18_6_4_34	Elongate entire
Ch18_6_4_35	Elongate thick
Ch18_6_4_36	Acute bulbosus
Ch18_6_4_37	Elongate entire
Ch18_6_4_38	Rondel
Ch18_6_4_39	Elongate entire
Ch18_6_4_40	Elongate thick
Ch18_6_4_41	Elongate entire
Ch18_6_4_42	Elongate entire
Ch18_6_4_43	Trapezoid
Ch18_6_4_44	Acute bulbosus
Ch18_6_4_45	Acute bulbosus
Ch18_6_4_46	Elongate entire
Ch18_6_4_47	Elongate entire
Ch18_6_4_48	Elongate thick
Ch18_6_4_49	Elongate entire
Ch18_6_4_50	Elongate entire
Ch18_6_4_51	Elongate entire
Ch18_6_4_52	Acute bulbosus
Ch18_6_4_53	Acute bulbosus
Ch18_6_4_54	Acute bulbosus
Ch18_6_4_55	Elongate entire
Ch18_6_4_56	Elongate entire
Ch18_6_4_57	Elongate entire
Ch18_6_4_58	Acute bulbosus
Ch18_6_4_59	WM
Ch18_6_4_60	Elongate entire

Ch18_6_4_61	Rondel
Ch18_6_4_62	Elongate thick
Ch18_6_4_63	Elongate entire
Ch18_6_4_64	Acute bulbosus
Ch18_6_4_65	Elongate entire
Ch18_6_4_66	Elongate thick
Ch18_6_4_67	WM
Ch18_6_4_68	Elongate thick
Ch18_6_4_69	Elongate thick
Ch18_6_4_70	Acute bulbosus
Ch18_6_4_71	Elongate thick
Ch18_6_4_72	Elongate thick
Ch18_6_4_73	Crenate
Ch18_6_4_74	Elongate entire
Ch18_6_4_75	Elongate entire
Ch18_6_4_76	Elongate entire
Ch18_6_4_77	Elongate entire
Ch18_6_4_78	Rondel
Ch18_6_4_79	Elongate entire
Ch18_6_4_80	Elongate entire
Ch18_6_4_81	Crenate
Ch18_6_4_82	Acute bulbosus
Ch18_6_4_83	Crenate
Ch18_6_4_84	Acute bulbosus
Ch18_6_4_85	Acute bulbosus
Ch18_6_4_86	Elongate entire
Ch18_6_4_87	Acute bulbosus
Ch18_6_4_88	Acute bulbosus
Ch18_6_4_89	Acute bulbosus
Ch18_6_4_90	Elongate entire
Ch18_6_4_91	Elongate entire

Ch18_6_4_92	Acute bulbosus
Ch18_6_4_93	Elongate entire
Ch18_6_4_94	Acute bulbosus

Ch18_6_4_95	Elongate entire
Ch18_6_4_96	Acute bulbosus
Ch18_6_4_97	Elongate entire

Ch18_6_4_98	Acute bulbosus
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Ch18_6_5

Sample no	Identifications
Ch18_6_5_1	Acute bulbosus
Ch18_6_5_2	Acute bulbosus
Ch18_6_5_3	Elongate entire
Ch18_6_5_4	Elongate entire
Ch18_6_5_5	Elongate entire
Ch18_6_5_6	WM
Ch18_6_5_7	Rondel
Ch18_6_5_8	Acute bulbosus
Ch18_6_5_9	Elongate entire
Ch18_6_5_10	Rondel
Ch18_6_5_11	Rondel
Ch18_6_5_12	Elongate entire
Ch18_6_5_13	Rondel
Ch18_6_5_14	Rondel
Ch18_6_5_15	Rondel

Ch18_6_5_16	Elongate entire
Ch18_6_5_17	Elongate entire
Ch18_6_5_18	Elongate entire
Ch18_6_5_19	Elongate entire
Ch18_6_5_20	Crenate
Ch18_6_5_21	Elongate entire
Ch18_6_5_22	Crenate
Ch18_6_5_23	Rondel
Ch18_6_5_24	Acute bulbosus
Ch18_6_5_25	Elongate entire
Ch18_6_5_26	Rondel
Ch18_6_5_27	Tracheary?
Ch18_6_5_28	Acute bulbosus
Ch18_6_5_29	Elongate entire
Ch18_6_5_30	Elongate entire
Ch18_6_5_31	Elongate entire
Ch18_6_5_32	Elongate entire

Ch18_6_5_33	Elongate entire
Ch18_6_5_34	Rondel
Ch18_6_5_35	Elongate entire
Ch18_6_5_36	Elongate entire
Ch18_6_5_37	Elongate dentate
Ch18_6_5_38	Elongate entire
Ch18_6_5_39	Elongate entire
Ch18_6_5_40	Elongate thick
Ch18_6_5_41	Elongate thick
Ch18_6_5_42	Elongate entire
Ch18_6_5_43	Acute bulbosus
Ch18_6_5_44	Elongate thick
Ch18_6_5_45	Elongate entire
Ch18_6_5_46	Elongate entire
Ch18_6_5_47	Elongate entire

Ch18_6_7

Sample no	Identifications
Ch18_6_7_1	Elongate entire
Ch18_6_7_2	Elongate entire
Ch18_6_7_3	Elongate entire
Ch18_6_7_4	Crenate
Ch18_6_7_5	Rondel
Ch18_6_7_6	Elongate thick
Ch18_6_7_7	Elongate entire
Ch18_6_7_8	Elongate entire
Ch18_6_7_9	Elongate thick
Ch18_6_7_10	Rondel
Ch18_6_7_11	Rondel
Ch18_6_7_12	Elongate entire

Ch18_6_7_13	Trapezoid
Ch18_6_7_14	Acute bulbosus
Ch18_6_7_15	Crenate
Ch18_6_7_16	Crenate
Ch18_6_7_17	Elongate entire
Ch18_6_7_18	Elongate entire
Ch18_6_7_19	Elongate entire
Ch18_6_7_20	Elongate entire
Ch18_6_7_21	Acute bulbosus
Ch18_6_7_22	Elongate entire
Ch18_6_7_23	WM
Ch18_6_7_24	Elongate entire
Ch18_6_7_25	Acute bulbosus
Ch18_6_7_26	Elongate entire

Ch18_6_7_27	Rondel
Ch18_6_7_28	Acute bulbosus
Ch18_6_7_29	Crenate
Ch18_6_7_30	Rondel
Ch18_6_7_31	Acute bulbosus
Ch18_6_7_32	Elongate entire
Ch18_6_7_33	Elongate entire
Ch18_6_7_34	WM
Ch18_6_7_35	Rondel
Ch18_6_7_36	Acute bulbosus
Ch18_6_7_37	WM
Ch18_6_7_38	Elongate entire
Ch18_6_7_39	Acute bulbosus
Ch18_6_7_40	Rondel

Ch18_6_9

Sample no	Identifications
Ch18_6_9_1	Elongate thick
Ch18_6_9_2	Elongate entire
Ch18_6_9_3	Elongate entire
Ch18_6_9_4	Elongate entire
Ch18_6_9_5	Crenate
Ch18_6_9_6	Rondel
Ch18_6_9_7	Rondel
Ch18_6_9_8	Elongate dentate
Ch18_6_9_9	Elongate entire

Ch18_6_9_10	Rondel
Ch18_6_9_11	Elongate entire
Ch18_6_9_12	Rondel
Ch18_6_9_13	Crenate
Ch18_6_9_14	Rondel
Ch18_6_9_15	Rondel
Ch18_6_9_16	Crenate
Ch18_6_9_17	Acute bulbosus
Ch18_6_9_18	Elongate entire
Ch18_6_9_19	Crenate
Ch18_6_9_20	Elongate entire

Ch18_6_9_21	Rondel
Ch18_6_9_22	Elongate entire
Ch18_6_9_23	Rondel
Ch18_6_9_24	Elongate entire
Ch18_6_9_25	Acute bulbosus
Ch18_6_9_26	Elongate entire
Ch18_6_9_27	Rondel
Ch18_6_9_28	Elongate entire
Ch18_6_9_29	Elongate entire
Ch18_6_9_30	Acute bulbosus
Ch18_6_9_31	Acute bulbosus

Ch18_6_9_32	Elongate entire
Ch18_6_9_33	Elongate entire
Ch18_6_9_34	Elongate entire

Ch18_6_9_35	Elongate entire
Ch18_6_9_36	Elongate entire
Ch18_6_9_37	Elongate entire

Ch18_6_9_38	Elongate dentate
Ch18_6_9_39	Elongate entire

Ch18_6_10

Sample no	Identifications
Ch18_6_10_1	Elongate entire
Ch18_6_10_2	Crenate
Ch18_6_10_3	Elongate entire
Ch18_6_10_4	Crenate
Ch18_6_10_5	Rondel
Ch18_6_10_6	Elongate entire
Ch18_6_10_7	Elongate entire
Ch18_6_10_8	Rondel
Ch18_6_10_9	Rondel
Ch18_6_10_10	Crenate
Ch18_6_10_11	Elongate entire
Ch18_6_10_12	Elongate entire
Ch18_6_10_13	WM
Ch18_6_10_14	Rondel
Ch18_6_10_15	Rondel
Ch18_6_10_16	WM
Ch18_6_10_17	Elongate entire
Ch18_6_10_18	Elongate entire
Ch18_6_10_19	Crenate
Ch18_6_10_20	Spheroid
Ch18_6_10_21	Acute bulbosus
Ch18_6_10_22	Crenate
Ch18_6_10_23	Elongate entire
Ch18_6_10_24	Elongate sinuate
Ch18_6_10_25	Elongate entire
Ch18_6_10_26	Rondel
Ch18_6_10_27	Rondel
Ch18_6_10_28	Rondel
Ch18_6_10_29	Elongate dentate
Ch18_6_10_30	Elongate entire
Ch18_6_10_31	Rondel
Ch18_6_10_32	Elongate entire
Ch18_6_10_33	Crenate
Ch18_6_10_34	Rondel
Ch18_6_10_35	Elongate dentate
Ch18_6_10_36	Elongate entire
Ch18_6_10_37	Pollen
Ch18_6_10_38	Elongate entire

Ch18_6_10_39	Rondel
Ch18_6_10_40	Rondel
Ch18_6_10_41	Elongate entire
Ch18_6_10_42	Elongate entire
Ch18_6_10_43	Acute bulbosus
Ch18_6_10_44	Acute bulbosus
Ch18_6_10_45	Rondel
Ch18_6_10_46	Elongate entire
Ch18_6_10_47	Elongate entire
Ch18_6_10_48	Elongate entire
Ch18_6_10_49	WM
Ch18_6_10_50	Elongate entire
Ch18_6_10_51	WM
Ch18_6_10_52	Elongate dentate
Ch18_6_10_53	Elongate entire
Ch18_6_10_54	Elongate thick
Ch18_6_10_55	Trapezoid
Ch18_6_10_56	Elongate entire
Ch18_6_10_57	Elongate entire
Ch18_6_10_58	Elongate sinuate
Ch18_6_10_59	Elongate entire
Ch18_6_10_60	Elongate entire
Ch18_6_10_61	Elongate entire
Ch18_6_10_62	Elongate entire
Ch18_6_10_63	Elongate entire
Ch18_6_10_64	Elongate sinuate
Ch18_6_10_65	Elongate sinuate
Ch18_6_10_66	Elongate entire
Ch18_6_10_67	Acute bulbosus
Ch18_6_10_68	Elongate entire
Ch18_6_10_69	Elongate entire
Ch18_6_10_70	Rondel
Ch18_6_10_71	Elongate entire
Ch18_6_10_72	Elongate thick
Ch18_6_10_73	Elongate entire
Ch18_6_10_74	Elongate entire
Ch18_6_10_75	Elongate entire
Ch18_6_10_76	Elongate entire
Ch18_6_10_77	WM
Ch18_6_10_78	Elongate entire

Ch18_6_10_79	Elongate entire
Ch18_6_10_80	Elongate entire
Ch18_6_10_81	Acute bulbosus
Ch18_6_10_82	Elongate entire
Ch18_6_10_83	Rondel
Ch18_6_10_84	Elongate entire
Ch18_6_10_85	Elongate dentate
Ch18_6_10_86	Elongate entire
Ch18_6_10_87	Acute bulbosus
Ch18_6_10_88	Elongate entire
Ch18_6_10_89	Acute bulbosus
Ch18_6_10_90	Crenate
Ch18_6_10_91	Elongate dentate
Ch18_6_10_92	WM
Ch18_6_10_93	Elongate entire
Ch18_6_10_94	Elongate entire
Ch18_6_10_95	Acute bulbosus
Ch18_6_10_96	Trapezoid
Ch18_6_10_97	WM
Ch18_6_10_98	Elongate entire
Ch18_6_10_99	Acute bulbosus
Ch18_6_10_100	Elongate thick
Ch18_6_10_101	Trapezoid
Ch18_6_10_102	Crenate
Ch18_6_10_103	Acute bulbosus
Ch18_6_10_104	Elongate entire
Ch18_6_10_105	Blocky
Ch18_6_10_106	Acute bulbosus
Ch18_6_10_107	Elongate entire
Ch18_6_10_108	Elongate entire
Ch18_6_10_109	Acute bulbosus
Ch18_6_10_110	WM
Ch18_6_10_111	Elongate entire
Ch18_6_10_112	Elongate entire
Ch18_6_10_113	Acute bulbosus
Ch18_6_10_114	Elongate entire
Ch18_6_10_115	WM
Ch18_6_10_116	Elongate entire
Ch18_6_10_117	Elongate entire

Ch18_6_11

Sample no	Identifications
Ch18_6_11_1	Acute bulbosus

Ch18_6_11_2	Elongate entire
Ch18_6_11_3	Elongate thick
Ch18_6_11_4	Elongate sinuate

Ch18_6_11_5	Acute bulbosus
Ch18_6_11_6	Elongate dentate
Ch18_6_11_7	Acute bulbosus

Ch18_6_11_8	Elongate thick
Ch18_6_11_9	Elongate entire
Ch18_6_11_10	Elongate thick
Ch18_6_11_11	Elongate entire
Ch18_6_11_12	Crenate
Ch18_6_11_13	Elongate entire
Ch18_6_11_14	Elongate entire
Ch18_6_11_15	Elongate entire
Ch18_6_11_16	Acute bulbosus
Ch18_6_11_17	Elongate entire
Ch18_6_11_18	Crenate
Ch18_6_11_19	Acute bulbosus

Ch18_6_11_20	Acute bulbosus
Ch18_6_11_21	Elongate entire
Ch18_6_11_22	Acute bulbosus
Ch18_6_11_23	Elongate entire
Ch18_6_11_24	Acute bulbosus
Ch18_6_11_25	Elongate entire
Ch18_6_11_26	WM
Ch18_6_11_27	Elongate entire
Ch18_6_11_28	Rondel
Ch18_6_11_29	Acute bulbosus
Ch18_6_11_30	Blocky
Ch18_6_11_31	Elongate thick

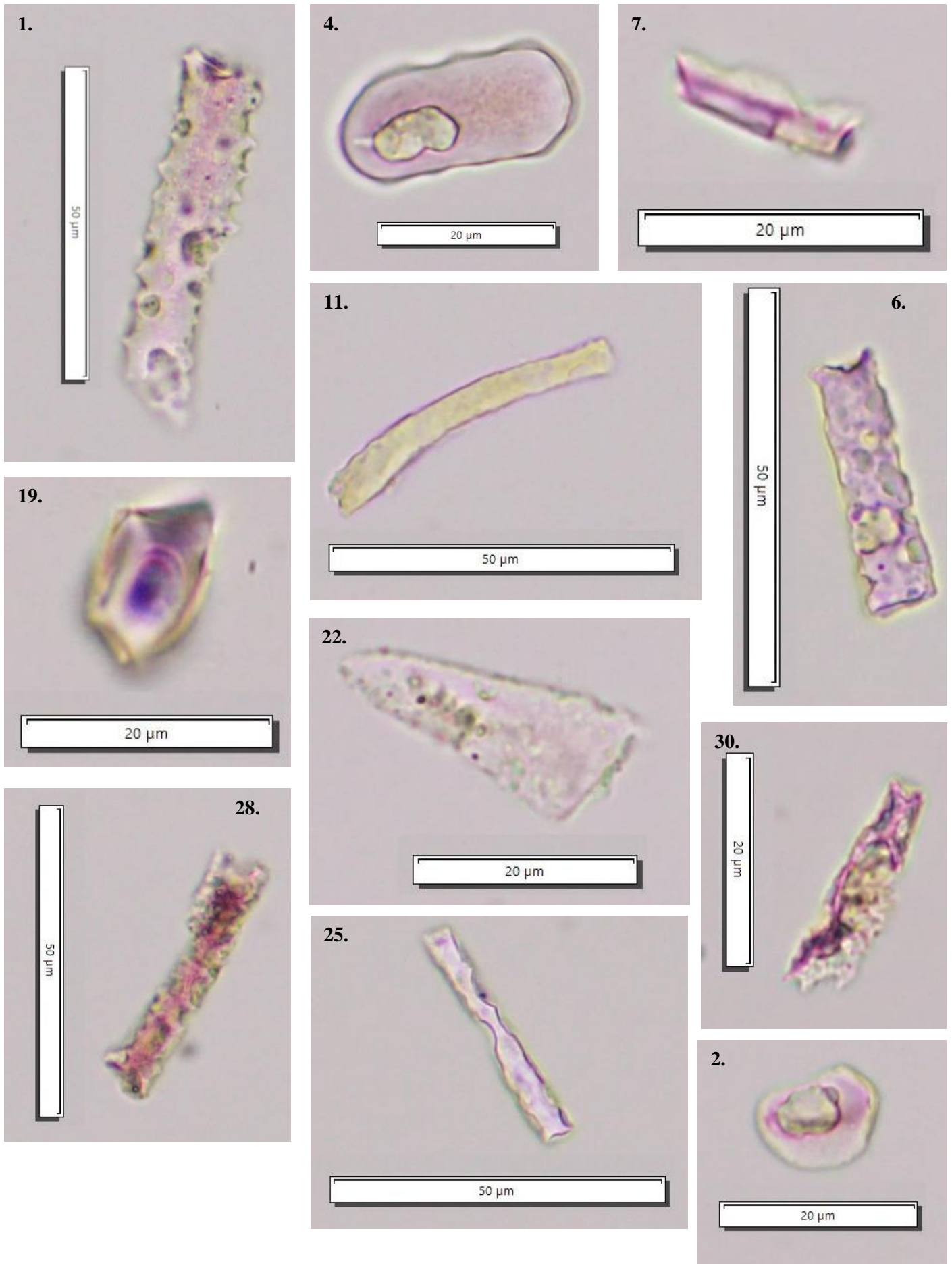
Ch18_6_11_32	WM
Ch18_6_11_33	Acute bulbosus
Ch18_6_11_34	Rondel
Ch18_6_11_35	Acute bulbosus
Ch18_6_11_36	Acute bulbosus
Ch18_6_11_37	Acute bulbosus
Ch18_6_11_38	Elongate dentate
Ch18_6_11_39	Elongate entire
Ch18_6_11_40	Polylobate
Ch18_6_11_41	Elongate entire
Ch18_6_11_42	Elongate entire

Ch18_6_12	
Sample no	Identifications
Ch18_6_12_1	Elongate entire
Ch18_6_12_2	Elongate entire
Ch18_6_12_3	Elongate entire
Ch18_6_12_4	WM
Ch18_6_12_5	Elongate entire
Ch18_6_12_6	Acute bulbosus
Ch18_6_12_7	Elongate entire
Ch18_6_12_8	Elongate entire
Ch18_6_12_9	Crenate
Ch18_6_12_10	Elongate entire
Ch18_6_12_11	Acute bulbosus
Ch18_6_12_12	Rondel
Ch18_6_12_13	Acute bulbosus
Ch18_6_12_14	Elongate entire
Ch18_6_12_15	Elongate entire
Ch18_6_12_16	Elongate entire
Ch18_6_12_17	Acute bulbosus
Ch18_6_12_18	Elongate entire
Ch18_6_12_19	Crenate
Ch18_6_12_20	WM
Ch18_6_12_21	Not a phytolith

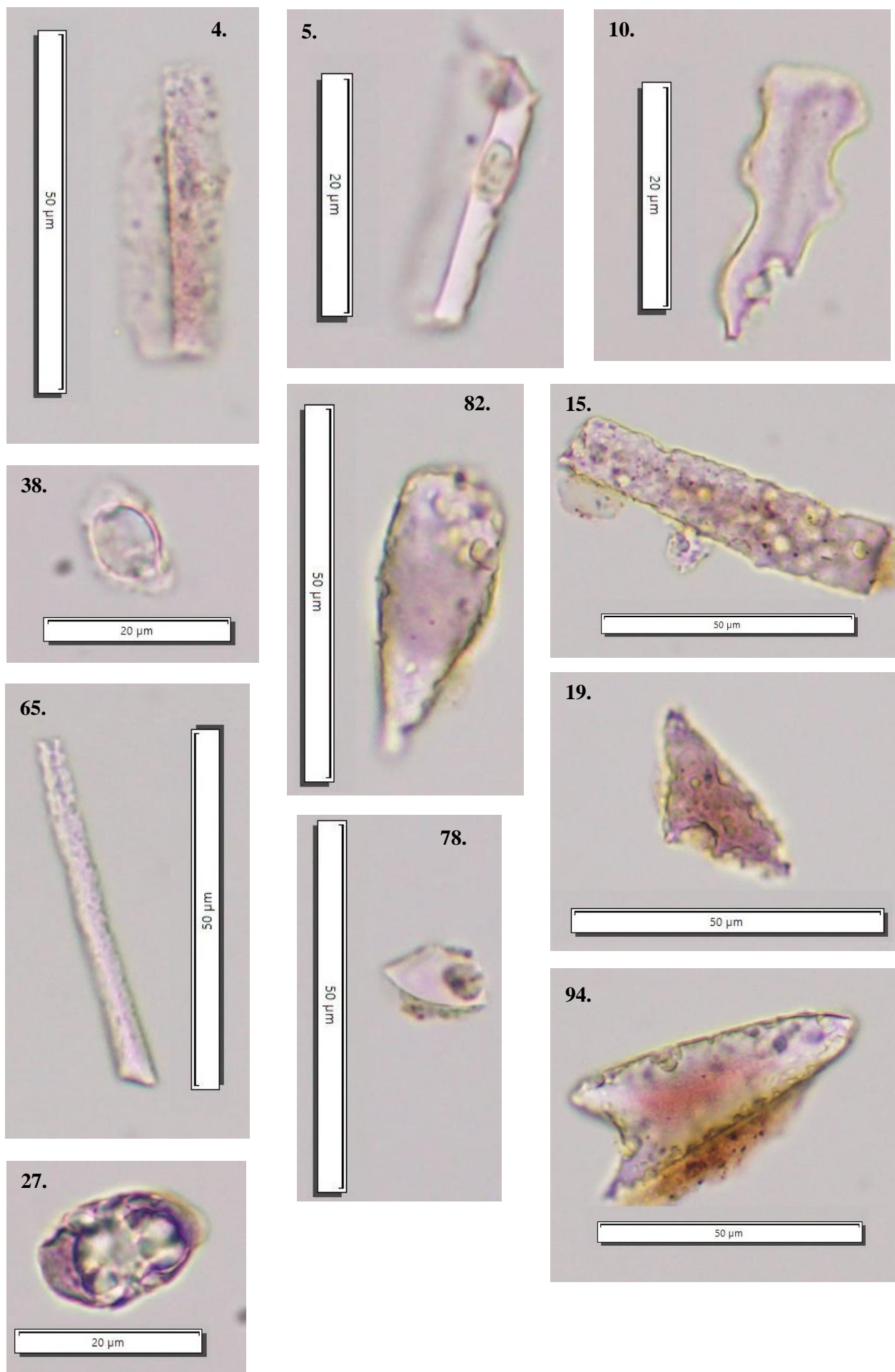
Ch18_6_12_22	Elongate entire
Ch18_6_12_23	Elongate entire
Ch18_6_12_24	Elongate thick
Ch18_6_12_25	Elongate entire
Ch18_6_12_26	Elongate entire
Ch18_6_12_27	Elongate thick
Ch18_6_12_28	Elongate thick
Ch18_6_12_29	Acute bulbosus
Ch18_6_12_30	Elongate entire
Ch18_6_12_31	Acute bulbosus
Ch18_6_12_32	Rondel
Ch18_6_12_33	Elongate entire
Ch18_6_12_34	Elongate thick
Ch18_6_12_35	Acute bulbosus
Ch18_6_12_36	Acute bulbosus
Ch18_6_12_37	Elongate entire
Ch18_6_12_38	Blocky
Ch18_6_12_39	Rondel
Ch18_6_12_40	Elongate entire
Ch18_6_12_41	Crenate
Ch18_6_12_42	Acute bulbosus
Ch18_6_12_43	Trapezoid
Ch18_6_12_44	Blocky

Ch18_6_12_45	Acute bulbosus
Ch18_6_12_46	Elongate thick
Ch18_6_12_47	Acute bulbosus
Ch18_6_12_48	Elongate entire
Ch18_6_12_49	WM
Ch18_6_12_50	Elongate entire
Ch18_6_12_51	Elongate entire
Ch18_6_12_52	Elongate dentate
Ch18_6_12_53	Elongate entire
Ch18_6_12_54	Elongate dentate
Ch18_6_12_55	Elongate entire
Ch18_6_12_56	Elongate entire
Ch18_6_12_57	Acute bulbosus
Ch18_6_12_58	Acute bulbosus
Ch18_6_12_59	Elongate entire
Ch18_6_12_60	Elongate entire
Ch18_6_12_61	Elongate entire
Ch18_6_12_62	Rondel
Ch18_6_12_63	Elongate dentate
Ch18_6_12_64	Acute bulbosus
Ch18_6_12_65	Acute bulbosus
Ch18_6_12_66	Elongate entire
Ch18_6_12_67	Elongate dentate

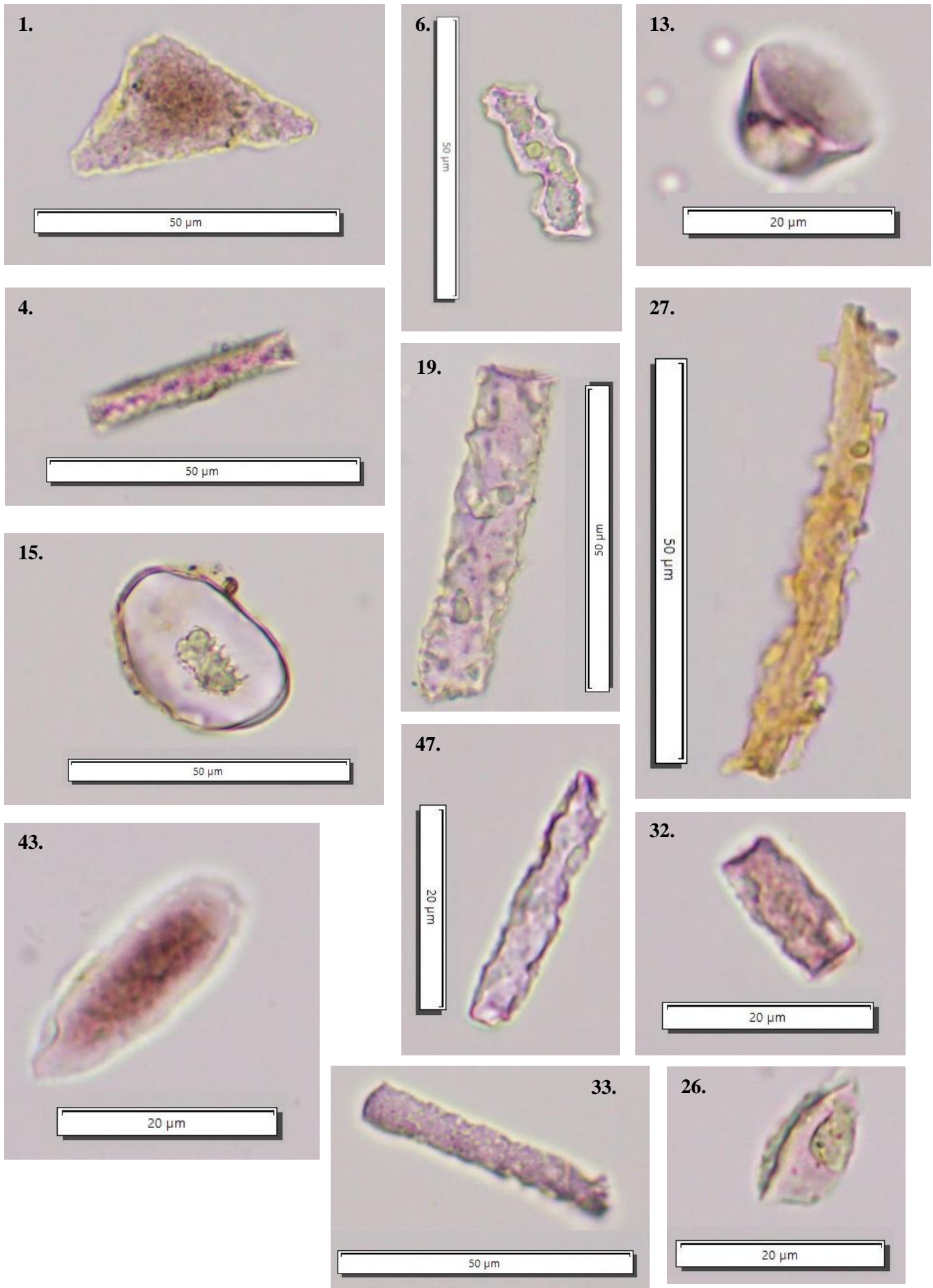
Ryc. 16 Obiekt 6 próba 3, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 6_3
Fig. 16 Feature 6 sample 3, the number of the photo relates to the number of the phytolith in the table 6_3



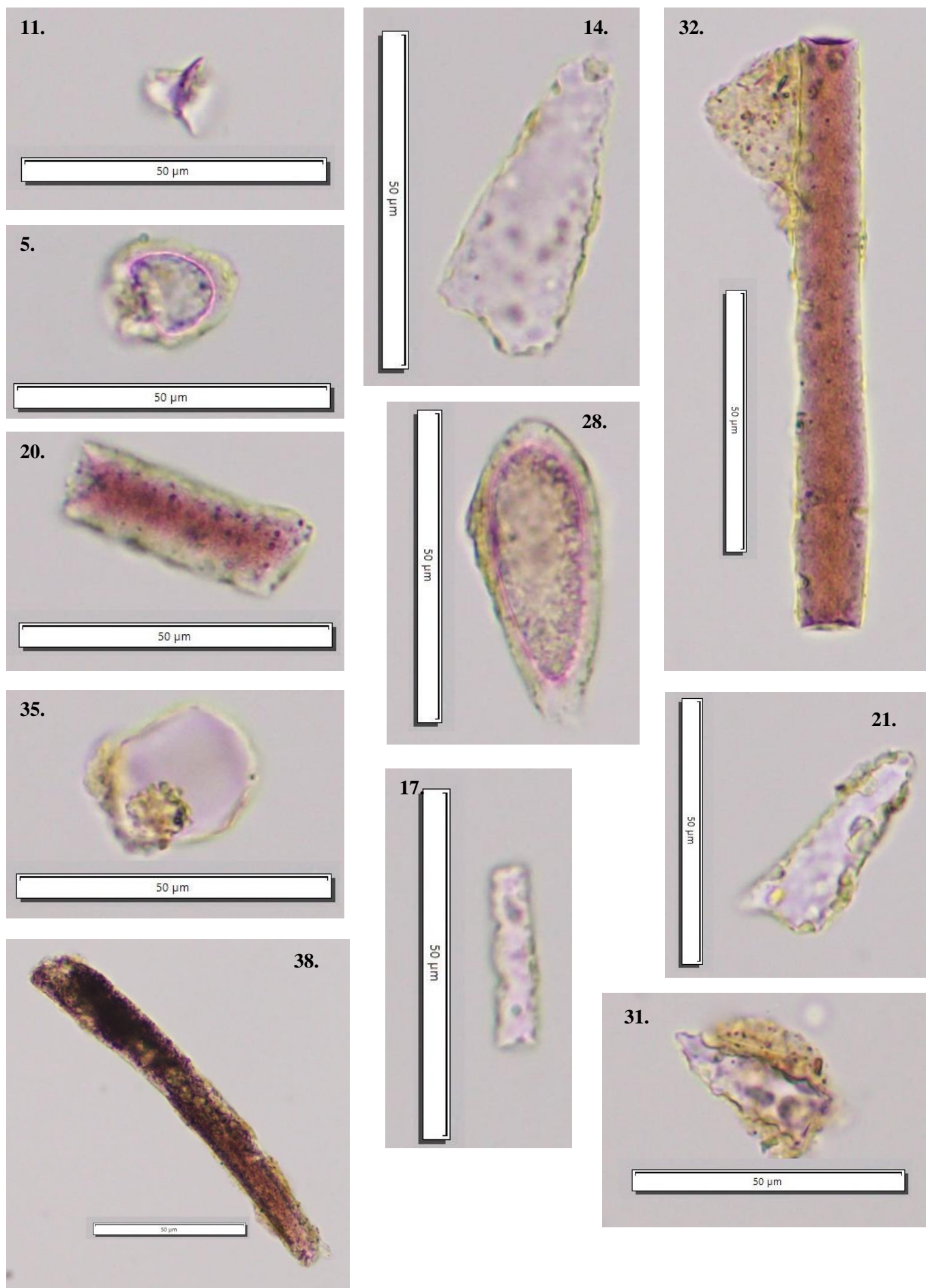
Ryc. 17 Obiekt 6 próba 4, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 6_4
Fig. 17 Feature 6 sample 4, the number of the photo relates to the number of the phytolith in the table 6_4



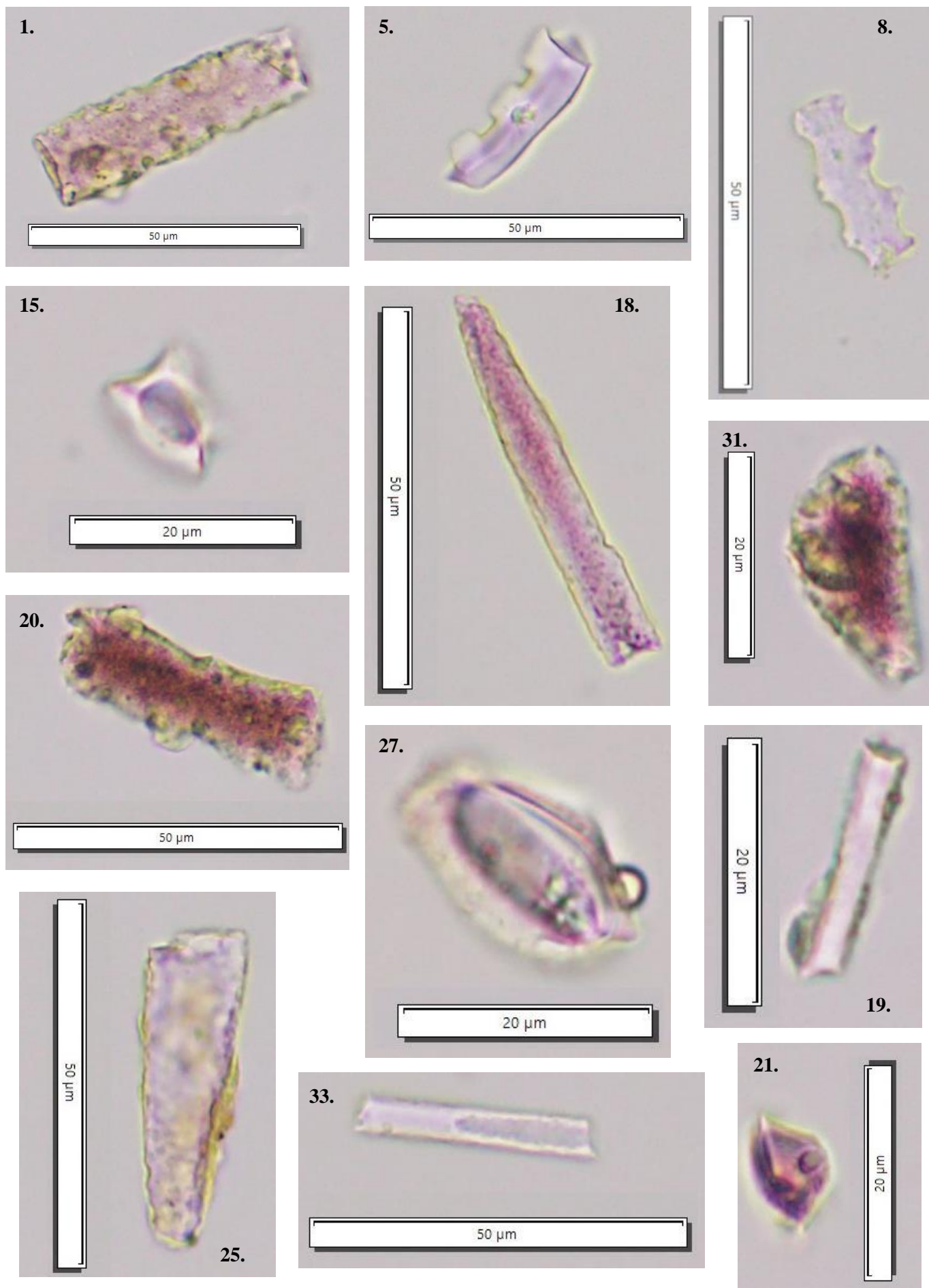
Ryc. 18 Obiekt 6 próba 5, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 6_5
Fig. 18 Feature 6 sample 5, the number of the photo relates to the number of the phytolith in the table 6_5



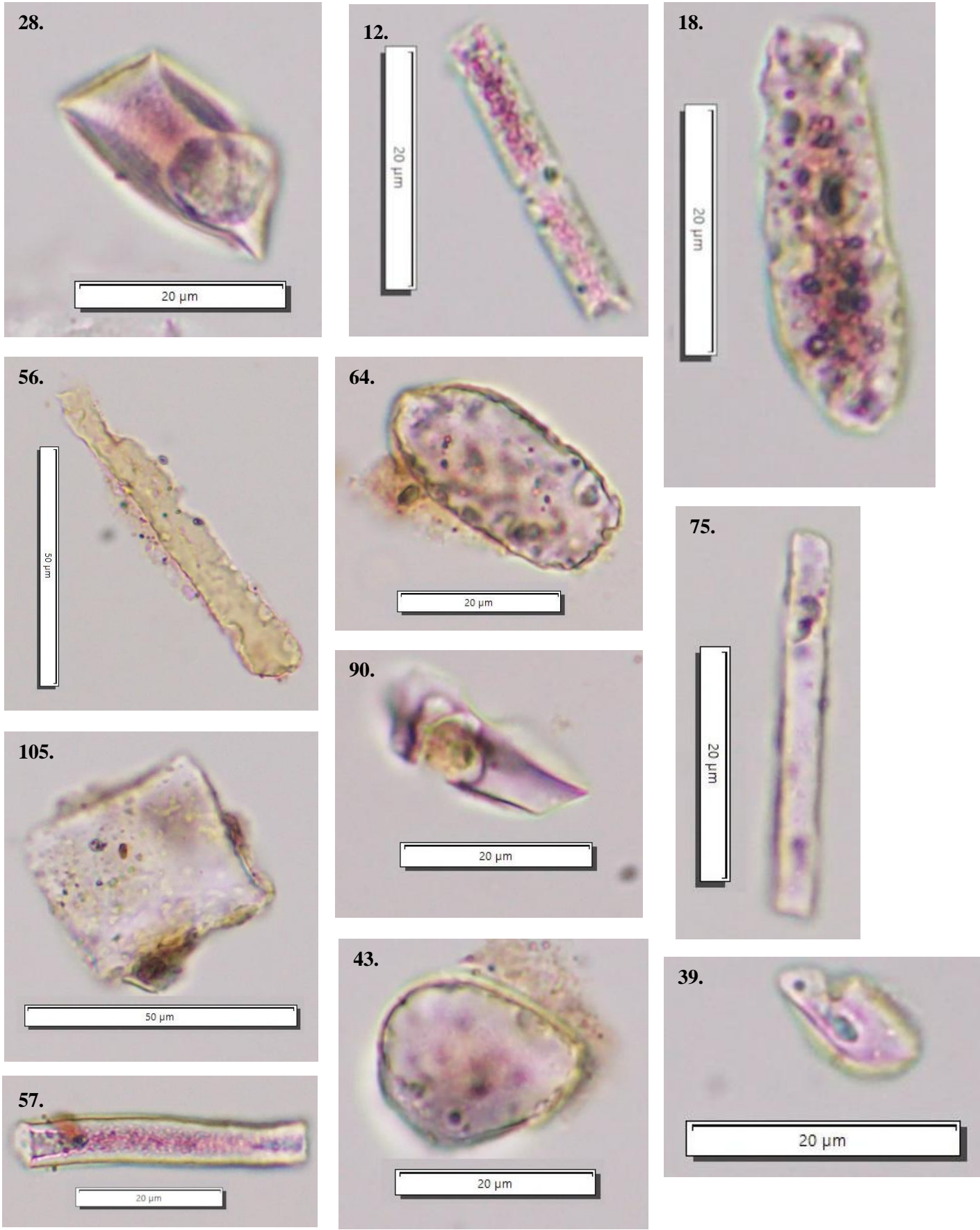
Ryc. 19 Obiekt 6 próba 7, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 6_7
Fig. 19 Feature 6 sample 7, the number of the photo relates to the number of the phytolith in the table 6_7



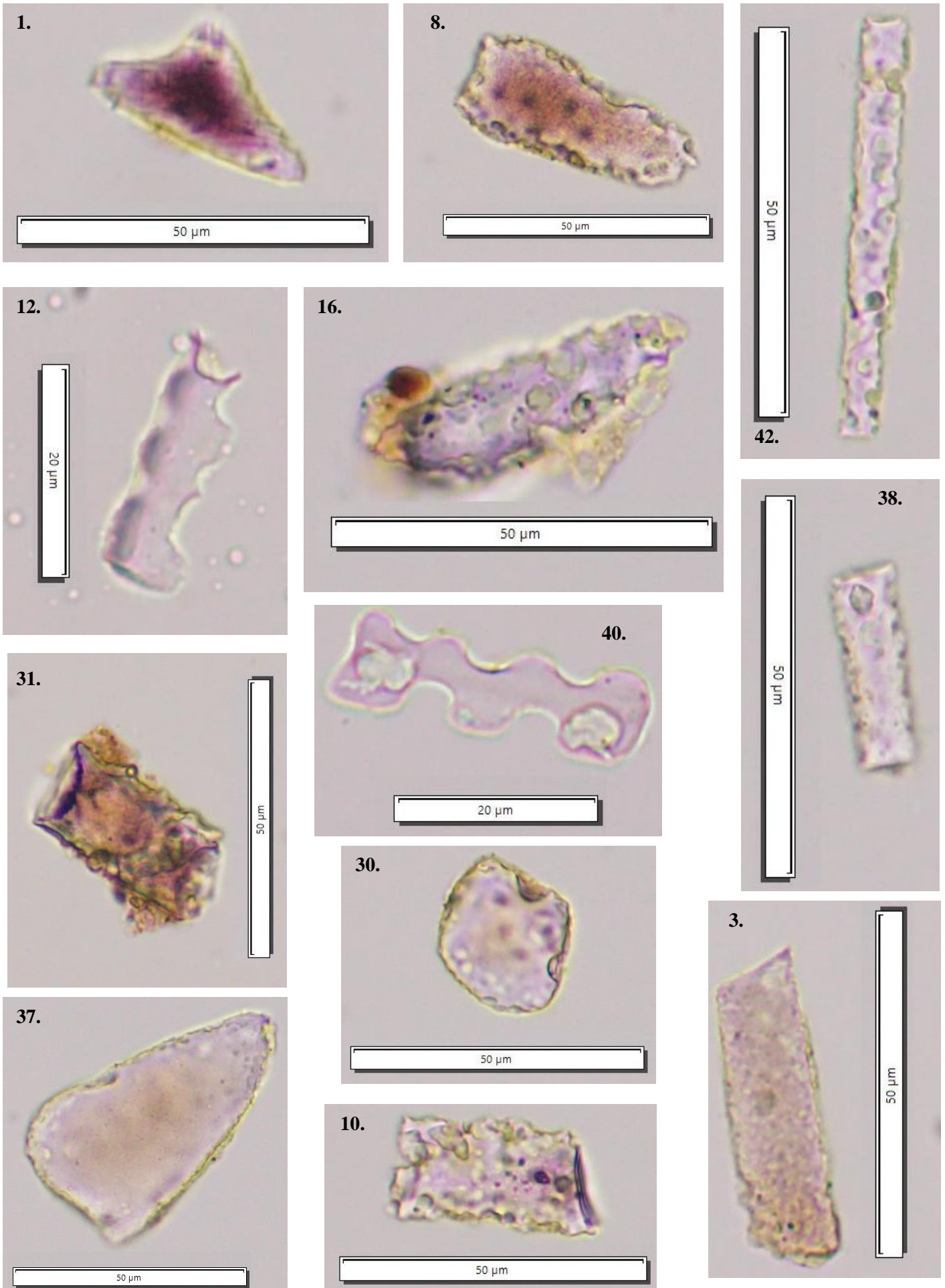
Ryc. 20 Obiekt 6 próba 9, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 6_9
Fig. 20 Feature 6 sample 9, the number of the photo relates to the number of the phytolith in the table 6_9



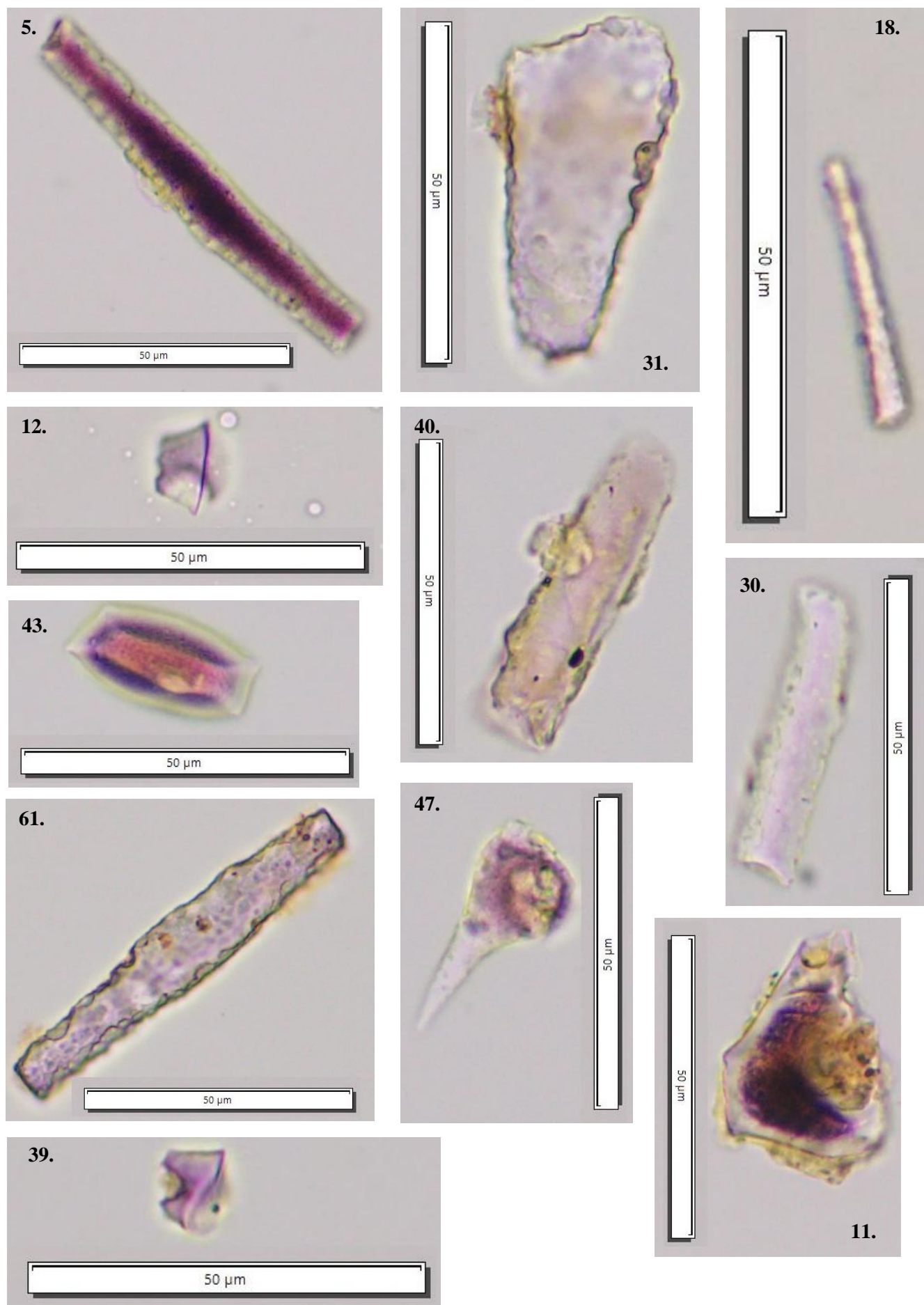
Ryc. 21 Obiekt 6 próba 10, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 6_10
Fig. 21 Feature 6 sample 10, the number of the photo relates to the number of the phytolith in the table 6_10



Ryc. 22 Obiekt 6 próba 11, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 6_11
Fig. 22 Feature 6 sample 11, the number of the photo relates to the number of the phytolith in the table 6_11



Ryc. 23 Obiekt 6 próba 12, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 6_12
Fig. 23 Feature 6 sample 12, the number of the photo relates to the number of the phytolith in the table 6_12



OBIEKT/FEATURE 20

Ch18_20_1					
Sample no	Identifications				
Ch18_20_1_1	Acute bulbosus	Ch18_20_1_42	Rondel	Ch18_20_1_85	Elongate entire
Ch18_20_1_2	Elongate entire	Ch18_20_1_43	Elongate entire	Ch18_20_1_86	Rondel
Ch18_20_1_3	Crenate	Ch18_20_1_44	Polylobate	Ch18_20_1_87	Elongate dentate
Ch18_20_1_4	Elongate entire	Ch18_20_1_45	Crenate	Ch18_20_1_88	Elongate entire
Ch18_20_1_5	Elongate entire	Ch18_20_1_46	Elongate entire	Ch18_20_1_89	Acute bulbosus
Ch18_20_1_6	Elongate entire	Ch18_20_1_47	Elongate entire	Ch18_20_1_90	Acute bulbosus
Ch18_20_1_7	Acute bulbosus	Ch18_20_1_48	Crenate	Ch18_20_1_91	Acute bulbosus
Ch18_20_1_8	Elongate entire	Ch18_20_1_49	Acute bulbosus	Ch18_20_1_92	Elongate thick
Ch18_20_1_9	Crenate	Ch18_20_1_50	Acute bulbosus	Ch18_20_1_93	Crenate
Ch18_20_1_10	Elongate dentate	Ch18_20_1_51	Elongate entire	Ch18_20_1_94	Crenate
Ch18_20_1_11	Elongate dendritic	Ch18_20_1_52	Rondel	Ch18_20_1_95	Elongate entire
Ch18_20_1_12	Crenate	Ch18_20_1_53	Crenate	Ch18_20_1_96	Elongate thick
Ch18_20_1_13	Elongate entire	Ch18_20_1_54	Elongate entire	Ch18_20_1_97	Acute bulbosus
Ch18_20_1_14	Elongate entire	Ch18_20_1_55	Trapezoid	Ch18_20_1_98	Elongate entire
Ch18_20_1_15	Elongate entire	Ch18_20_1_56	Elongate entire	Ch18_20_1_99	Rondel
Ch18_20_1_16	Elongate entire	Ch18_20_1_57	Elongate entire	Ch18_20_1_100	Elongate entire
Ch18_20_1_17	Elongate entire	Ch18_20_1_58	Elongate entire	Ch18_20_1_101	Rondel
Ch18_20_1_18	Elongate entire	Ch18_20_1_59	Elongate entire	Ch18_20_1_102	Acute bulbosus
Ch18_20_1_19	Acute bulbosus	Ch18_20_1_60	Elongate entire	Ch18_20_1_103	Elongate entire
Ch18_20_1_20	Acute bulbosus	Ch18_20_1_61	Rondel	Ch18_20_1_104	Elongate entire
Ch18_20_1_21	Elongate entire	Ch18_20_1_62	Acute bulbosus	Ch18_20_1_105	Rondel
Ch18_20_1_22	Elongate entire	Ch18_20_1_63	Elongate entire	Ch18_20_1_106	Crenate
Ch18_20_1_23	Elongate entire	Ch18_20_1_64	Elongate entire	Ch18_20_1_107	Elongate entire
Ch18_20_1_24	Elongate entire	Ch18_20_1_65	Elongate entire	Ch18_20_1_108	Acute bulbosus
Ch18_20_1_25	Elongate entire	Ch18_20_1_66	Elongate entire	Ch18_20_1_109	Acute bulbosus
Ch18_20_1_26	Elongate dentate	Ch18_20_1_67	Acute bulbosus	Ch18_20_1_110	Elongate entire
Ch18_20_1_27	Elongate entire	Ch18_20_1_68	Elongate entire	Ch18_20_1_111	WM
Ch18_20_1_28	Crenate	Ch18_20_1_69	Rondel	Ch18_20_1_112	Rondel
Ch18_20_1_29	Elongate entire	Ch18_20_1_70	Acute bulbosus	Ch18_20_1_113	Rondel
Ch18_20_1_30	Elongate entire	Ch18_20_1_71	Polylobate	Ch18_20_1_114	Rondel
Ch18_20_1_31	Elongate entire	Ch18_20_1_72	Elongate entire	Ch18_20_1_115	Acute bulbosus
Ch18_20_1_32	Elongate entire	Ch18_20_1_73	Elongate dendritic	Ch18_20_1_116	Crenate
Ch18_20_1_33	Elongate entire	Ch18_20_1_74	WM	Ch18_20_1_117	Acute bulbosus
Ch18_20_1_34	Elongate entire	Ch18_20_1_75	Acute bulbosus	Ch18_20_1_118	Acute bulbosus
Ch18_20_1_35	Acute bulbosus	Ch18_20_1_76	Acute bulbosus	Ch18_20_1_119	Bilobate
Ch18_20_1_36	Elongate entire	Ch18_20_1_77	Rondel	Ch18_20_1_120	Elongate entire
Ch18_20_1_37	Acute bulbosus	Ch18_20_1_78	Elongate entire	Ch18_20_1_121	Elongate entire
Ch18_20_1_38	Elongate entire	Ch18_20_1_79	Elongate entire	Ch18_20_1_122	Elongate entire
Ch18_20_1_39	Polylobate	Ch18_20_1_80	Acute bulbosus	Ch18_20_1_123	Bilobate
Ch18_20_1_40	Rondel	Ch18_20_1_81	Blocky	Ch18_20_1_124	Rondel
Ch18_20_1_41	WM	Ch18_20_1_82	Elongate dendritic	Ch18_20_1_125	Elongate entire
		Ch18_20_1_83	Elongate entire	Ch18_20_1_126	Elongate entire
		Ch18_20_1_84	Elongate entire	Ch18_20_1_127	Rondel

Ch18_20_2

Sample no	Identifications
Ch18_20_2_1	Elongate entire
Ch18_20_2_2	Rondel
Ch18_20_2_3	Rondel
Ch18_20_2_4	Rondel
Ch18_20_2_5	Bulliform flabellate
Ch18_20_2_6	Elongate entire
Ch18_20_2_7	Rondel
Ch18_20_2_8	Elongate thick
Ch18_20_2_9	Elongate entire
Ch18_20_2_10	Elongate entire
Ch18_20_2_11	Elongate entire
Ch18_20_2_12	Trapezoid
Ch18_20_2_13	Rondel?
Ch18_20_2_14	Crenate
Ch18_20_2_15	Elongate dentate
Ch18_20_2_16	Acute bulbosus
Ch18_20_2_17	Spheroid
Ch18_20_2_18	Elongate dendritic
Ch18_20_2_19	Elongate entire
Ch18_20_2_20	Elongate thick
Ch18_20_2_21	Rondel
Ch18_20_2_22	Rondel
Ch18_20_2_23	Elongate entire
Ch18_20_2_24	Elongate entire
Ch18_20_2_25	Rondel
Ch18_20_2_26	Crenate

Ch18_20_2_27	Elongate entire
Ch18_20_2_28	Elongate entire
Ch18_20_2_29	WM
Ch18_20_2_30	Crenate
Ch18_20_2_31	Elongate entire
Ch18_20_2_32	Trapezoid
Ch18_20_2_33	Elongate entire
Ch18_20_2_34	Elongate entire
Ch18_20_2_35	Elongate entire
Ch18_20_2_36	Rondel
Ch18_20_2_37	Elongate entire
Ch18_20_2_38	WM
Ch18_20_2_39	Acute bulbosus
Ch18_20_2_40	Elongate entire
Ch18_20_2_41	Rondel
Ch18_20_2_42	Elongate entire
Ch18_20_2_43	Elongate entire
Ch18_20_2_44	Trapezoid
Ch18_20_2_45	Trapezoid
Ch18_20_2_46	Elongate entire
Ch18_20_2_47	WM
Ch18_20_2_48	Elongate entire
Ch18_20_2_49	WM
Ch18_20_2_50	Elongate entire
Ch18_20_2_51	Elongate entire
Ch18_20_2_52	Elongate entire
Ch18_20_2_53	WM
Ch18_20_2_54	Acute bulbosus

Ch18_20_2_55	Elongate entire
Ch18_20_2_56	Rondel
Ch18_20_2_57	Rondel?
Ch18_20_2_58	Acute bulbosus
Ch18_20_2_59	Elongate entire
Ch18_20_2_60	Rondel
Ch18_20_2_61	WM
Ch18_20_2_62	Crenate
Ch18_20_2_63	Elongate entire
Ch18_20_2_64	Elongate thick
Ch18_20_2_65	Trapezoid
Ch18_20_2_66	Acute bulbosus
Ch18_20_2_67	Acute bulbosus
Ch18_20_2_68	Acute bulbosus
Ch18_20_2_69	Acute bulbosus
Ch18_20_2_70	WM
Ch18_20_2_71	Elongate entire
Ch18_20_2_72	Crenate
Ch18_20_2_73	Acute bulbosus
Ch18_20_2_74	Elongate entire
Ch18_20_2_75	Acute bulbosus
Ch18_20_2_76	Acute bulbosus
Ch18_20_2_77	Elongate entire
Ch18_20_2_78	Elongate entire
Ch18_20_2_79	Elongate thick
Ch18_20_2_80	Blocky

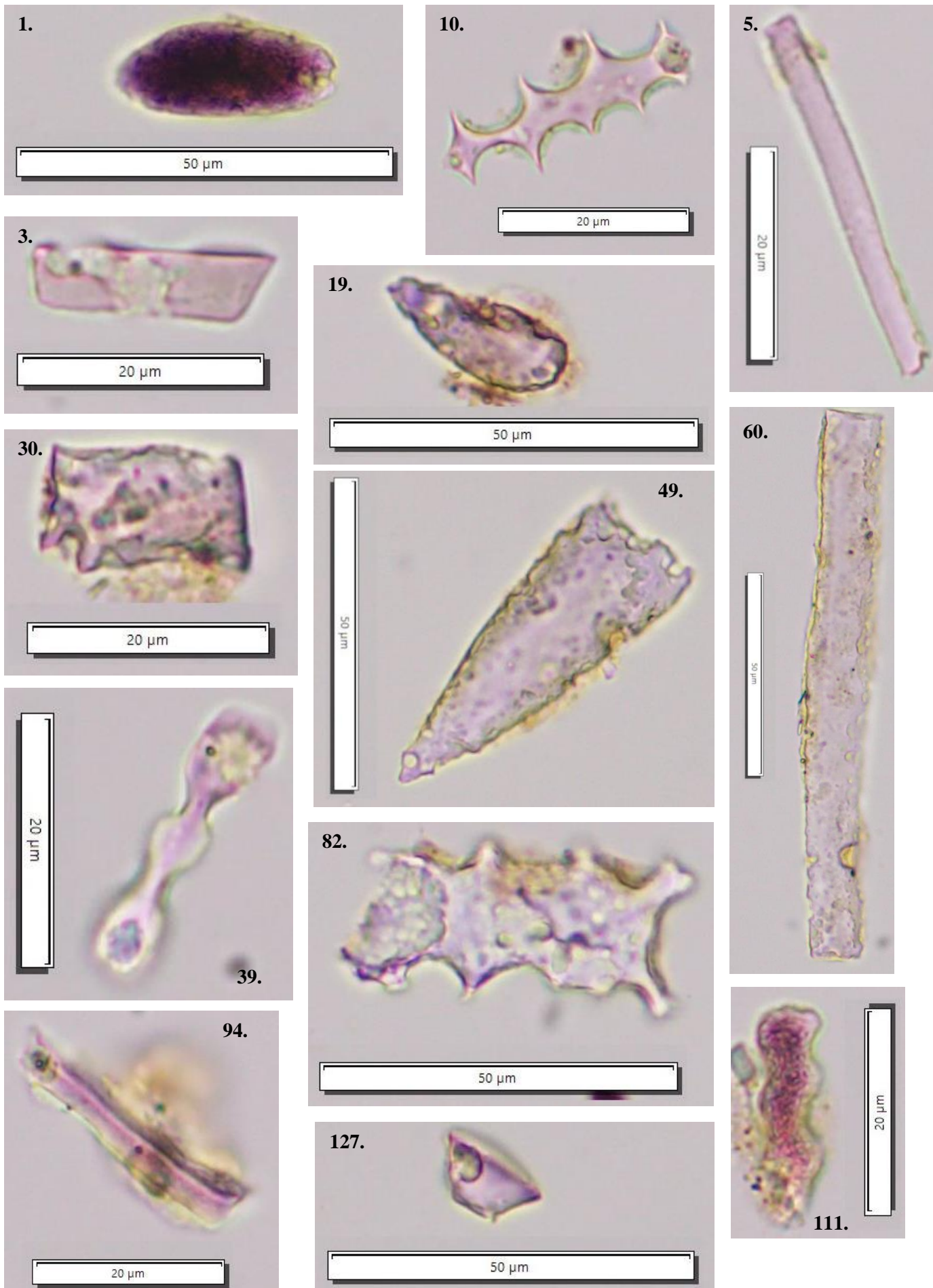
Ch18_20_3

Sample no	Identifications
Ch18_20_3_1	Rondel
Ch18_20_3_2	Acute bulbosus
Ch18_20_3_3	Acute bulbosus
Ch18_20_3_4	Elongate entire
Ch18_20_3_5	Elongate thick
Ch18_20_3_6	Elongate entire
Ch18_20_3_7	Acute bulbosus
Ch18_20_3_8	Elongate entire

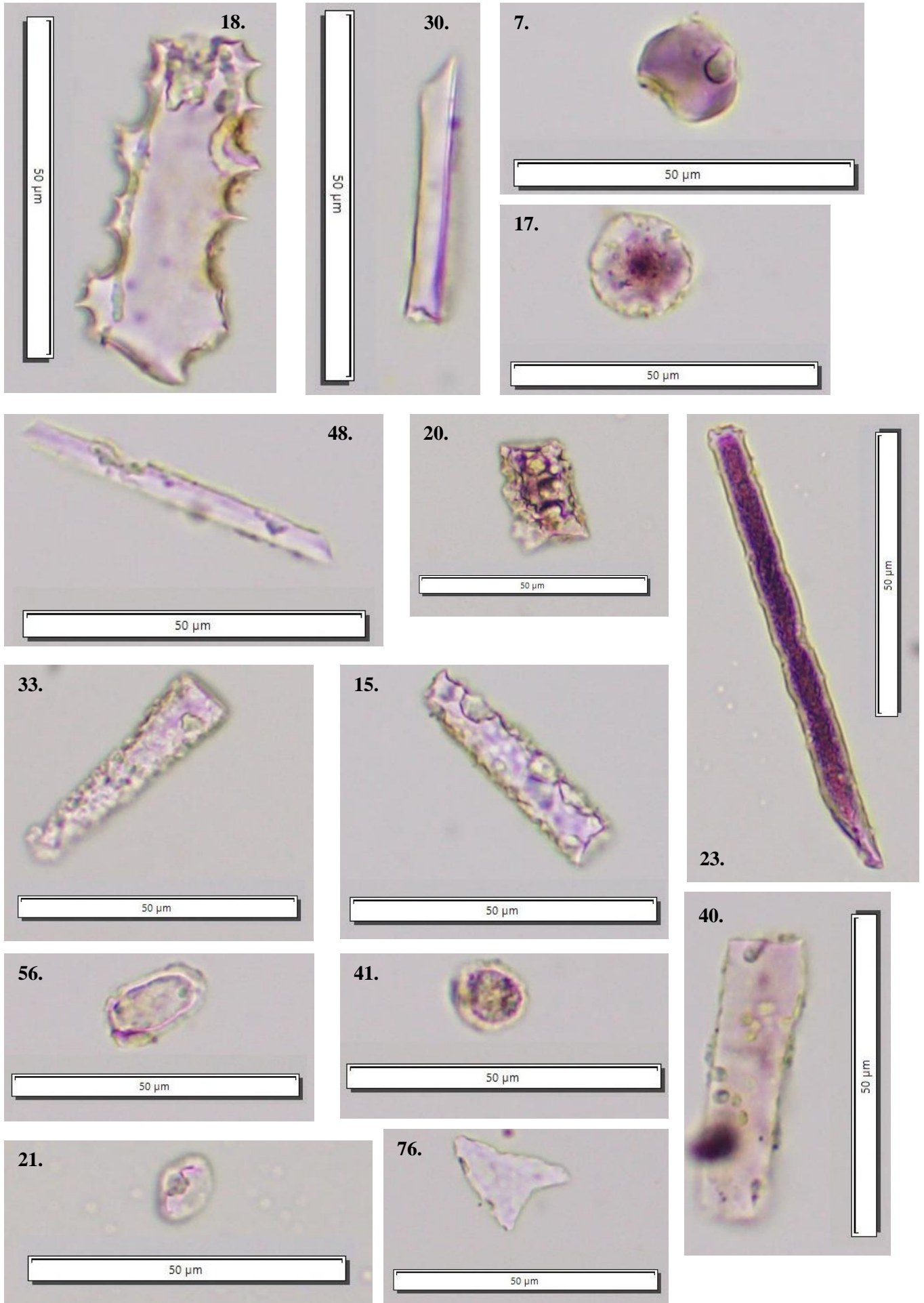
Ch18_20_3_9	WM
Ch18_20_3_10	Acute bulbosus
Ch18_20_3_11	Tracheary
Ch18_20_3_12	Elongate entire
Ch18_20_3_13	Elongate entire
Ch18_20_3_14	WM
Ch18_20_3_15	Rondel
Ch18_20_3_16	Acute bulbosus
Ch18_20_3_17	Rondel
Ch18_20_3_18	Acute bulbosus

Ch18_20_3_19	Elongate entire
Ch18_20_3_20	Crenate
Ch18_20_3_21	WM
Ch18_20_3_22	Elongate entire
Ch18_20_3_23	WM
Ch18_20_3_24	Elongate entire
Ch18_20_3_25	Elongate entire
Ch18_20_3_26	Acute bulbosus, WM
Ch18_20_3_27	Elongate entire

Ryc. 24 Obiekt 20 próba 1, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 20_1
Fig. 24 Feature 20 sample 1, the number of the photo relates to the number of the phytolith in the table 20_1



Ryc. 25 Obiekt 20 próba 2, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 20_2
Fig. 25 Feature 20 sample 2, the number of the photo relates to the number of the phytolith in the table 20_2



Ryc. 26 Obiekt 20 próba 3, numery zdjęć odpowiadają numerom fitolitów zidentyfikowanych w tabeli 20_3
Fig. 26 Feature 20 sample 3, the number of the photo relates to the number of the phytolith in the table 20_3

