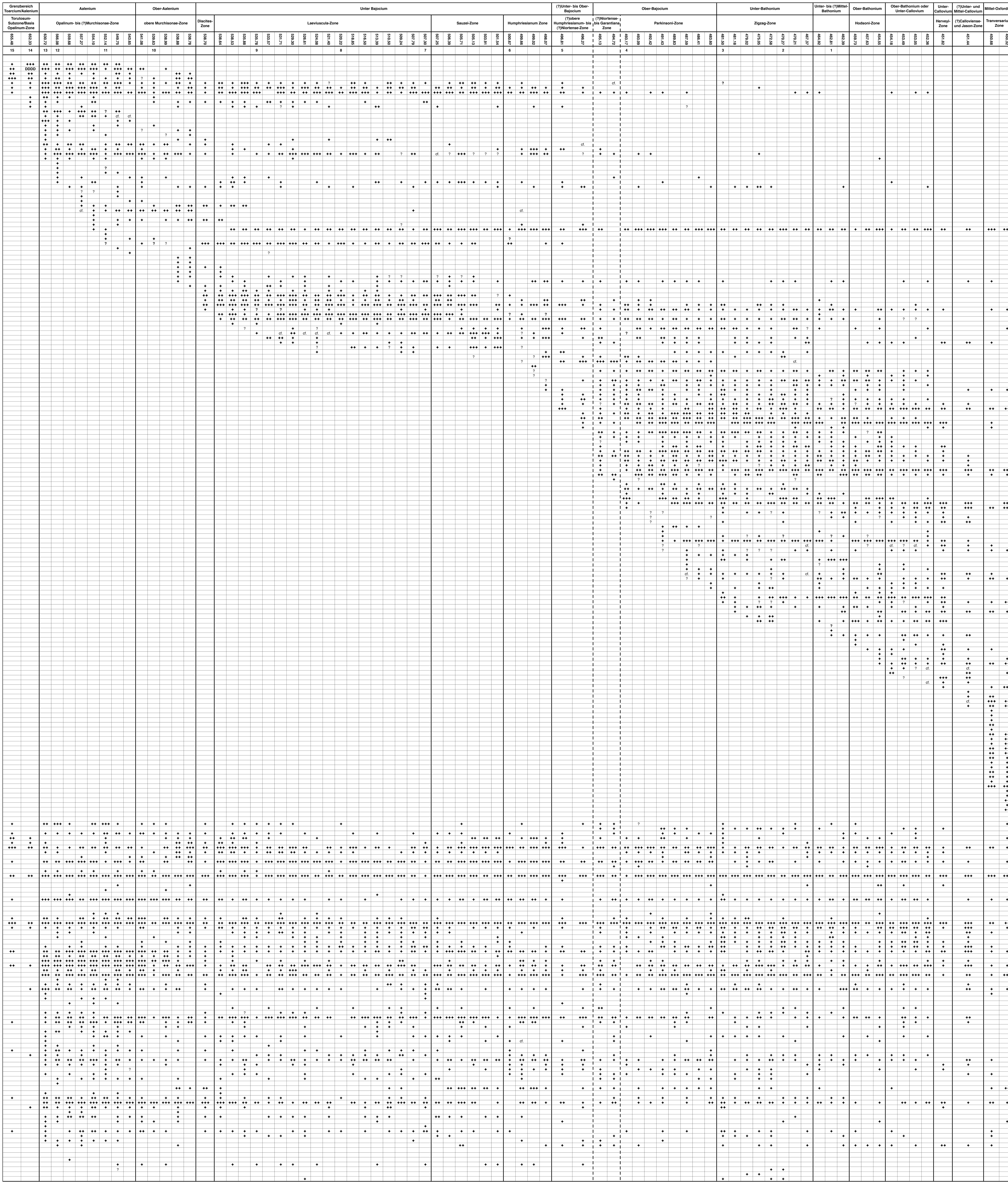

Dinoflagellatenzysten:

Nr.	Dinoflagellatenzysten	Nr.	alphabetische Reihenfolge
1	*Scriniocassis weberi*	64	*Acanthaulax crispa*
2	*Evansia*? cf. *granochagrinata*	138	*Acanthaulax granulata*
3	*Scriniocassis limbicavatus*	143	*Acanthaulax venusta*
4	*Scriniocassis priscus*	129	*Adnatosphaeridium caulleryi*
5	*Mancodinium semitabulatum*	73	*Aldorfia aldorfensis*
6	*Nannoceratopsis gracilis* s.l.	15	*Andreedinium* aff. *elongatum*
7	*Nannoceratopsis* spp.	31	*Andreedinium elongatum*
8	*Dodekovia bullula*	82	*Atopodinium polygonale*
9	*Nannoceratopsis dictyambonis*	127	*Atopodinium prostatum*
10	*Valvaeodinium cavum*	62	*Batiacasphaera laevigata*
11	*Phallocysta*? *frommernensis*	44	*Batiacasphaera* sp. A in Feist-Burkhardt & Pross 2010
12	*Nannoceratopsis triangulata*	45	*Batiacasphaera* sp. B in Feist-Burkhardt & Pross 2010
13	*Wallodinium laganum*	155	*Belodinium asaphum*
14	*Comparodinium punctatum*	80	*Carpathodinium predae*
15	*Andreedinium* aff. *elongatum*	123	*Carpathodinium* sp. 1
16	*Dodekovia pseudochytroeides*	61	*Cavatodissiliodinium hansgochtii*
17	*Valvaeodinium brevepellitum*	94	*Chlamydophorella* spp.
18	*Nannoceratopsis* sp. B in Feist 1987	87	*Chytroeisphaeridia chytroeides*
19	*Valvaeodinium sphaerechinatum*	119	*Chytroeisphaeridia scabrata*
20	*Kallosphaeridium praussii*	144	*Cleistosphaeridium iaculigerum*
21	*Susadinium scrofoides*	139	*Cleistosphaeridium lumectum*
22	Dinoflagellate sp. D in Bjaerke 1980	105	*Cleistosphaeridium* sp. 1
23	*Weiachia* sp. A in Feist-Burkhardt & Pross 2010	122	*Cleistosphaeridium* sp. 2
24	*Reutlingia cardobarbata*	14	*Comparodinium punctatum*
25	*Nannoceratopsis* cf. *senex*	135	*Compositosphaeridium polonicum*
26	*Valvaeodinium vermipellitum*	156	*Ctenidodinium chondrum*
27	*Valvaeodinium* spp.	114	*Ctenidodinium combazii*
28	*Dodekovia knertensis*	84	*Ctenidodinium continuum*
29	*Reutlingia* sp. in Feist-Burkhardt & Pross 2010	93	*Ctenidodinium cornigerum*
30	*Parvocysta*? *tricornuta*	102	*Ctenidodinium ornatum*
31	*Andreedinium elongatum*	88	*Ctenidodinium selwoodii*
32	*Nannoceratopsis plegas*	77	*Ctenidodinium* spp.
33	*Parvocysta*? *bjaerkei*	106	*Ctenidodinium stauromatos*
34	*Hystrichodinium*? sp.	116	*Ctenidodinium tenellum*
35	*Dodekovia* sp.	126	*Dingodinium minutum*
36	*Sentusidinium* spp.	22	Dinoflagellate sp. D in Bjaerke 1980
37	*Reutlingia cracens*	51	*Dissiliodinium* aff. *giganteum*
38	*Nannoceratopsis triceras*	54	*Dissiliodinium giganteum*
39	*Dissiliodinium lichenoides*	39	*Dissiliodinium lichenoides*
40	*Ovalicysta hiata*	113	*Dissiliodinium minimum*
41	*Wittnaudinium minutum*	50	*Dissiliodinium* sp. B in Feist-Burkhardt 1990
42	*Dodekovia pinna*	52	*Dissiliodinium* spp.
43	*Dodekovia* spp.	8	*Dodekovia bullula*
44	*Batiacasphaera* sp. A in Feist-Burkhardt & Pross 2010	28	*Dodekovia knertensis*
45	*Batiacasphaera* sp. B in Feist-Burkhardt & Pross 2010	42	*Dodekovia pinna*
46	*Evansia*? *spongogranulata*	16	*Dodekovia pseudochytroeides*
47	*Kallosphaeridium* spp.	35	*Dodekovia* sp.
48	*Moesiodinium raileanui*	43	*Dodekovia* spp.
49	*Evansia*? *eschachensis*	58	*Durotrigia daveyi*
50	*Dissiliodinium* sp. B in Feist-Burkhardt 1990	63	*Durotrigia filapicata*
51	*Dissiliodinium* aff. *giganteum*	91	*Durotrigia omentifera*
52	*Dissiliodinium* spp.	59	*Durotrigia* spp.
53	*Pareodinia* spp.	145	*Ellipsoidictyum sp.*
54	*Dissiliodinium giganteum*	71	*Endoscrinium asymmetricum*
55	*Gongylodinium erymnoteichon*	110	*Endoscrinium* cf. *luridum*
56	*Nannoceratopsis ambonis*	146	*Endoscrinium galeritum*
57	*Kallosphaeridium hypornatum*	147	*Endoscrinium galeritum reticulatum*
58	*Durotrigia daveyi*	120	*Eodinia* sp. in Feist-Burkhardt & Wille 1992
59	*Durotrigia* spp.	97	*Eodinia* spp.
60	*Pareodinia ceratophora*	2	*Evansia*? cf. *granochagrinata*
61	*Cavatodissiliodinium hansgochtii*	49	*Evansia*? *eschachensis*
62	*Batiacasphaera laevigata*	46	*Evansia*? *spongogranulata*
63	*Durotrigia filapicata*	157	*Glossodinium dimorphum*
64	*Acanthaulax crispa*	55	*Gongylodinium erymnoteichon*
65	*Phallocysta thomasii*	79	*Gongylodinium hocneratum*
66	*Valvaeodinium spinosum*	118	gonyaulacoide Zyste indet 2
67	*Valvaeodinium vermicylindratum*	99	gonyaulacoide Zyste indet. 1
68	*Nannoceratopsis spiculata*	104	*Gonyaulacysta eisenackii*
69	*Pareodinia* sp. 2 in Feist-Burkhardt & Monteil 1998	128	*Gonyaulacysta jurassica*
70	*Meiourogonyaulax* spp.	83	*Gonyaulacysta pectinigera*
71	*Endoscrinium asymmetricum*	117	*Gonyaulacysta* spp.
72	*Rhynchodiniopsis*? *regalis*	34	*Hystrichodinium*? sp.
73	*Aldorfia aldorfensis*	57	*Kallosphaeridium hypornatum*
74	*Valensiella/Ellipsoidictyum* complex	20	*Kallosphaeridium praussii*
75	*Meiourogonyaulax valensii*	47	*Kallosphaeridium* spp.
76	*Valensiella ovulum*	134	*Korystocysta pachyderma*
77	*Ctenidodinium* spp.	85	*Korystocyste* cf. *gochtii*
78	*Orobodinium* spp.	148	*Leptodinium arcuatum*
79	*Gongylodinium hocneratum*	140	*Leptodinium mirabile*
80	*Carpathodinium predae*	158	*Leptodinium subtile*
81	*Meiourogonyaulax* sp. 1 in Feist-Burkhardt & Monteil 1998	98	*Lithodinia* cf. *caytonensis*
82	*Atopodinium polygonale*	109	*Lithodinia jurassica*
83	*Gonyaulacysta pectinigera*	90	*Lithodinia* sp. 1
84	*Ctenidodinium continuum*	5	*Mancodinium semitabulatum*
85	*Korystocyste* cf. *gochtii*	81	*Meiourogonyaulax* sp. 1 in Feist-Burkhardt & Monteil 1998
86	*Wanaea indotata*	70	*Meiourogonyaulax* spp.
87	*Chytroeisphaeridia chytroeides*	75	*Meiourogonyaulax valensii*
88	*Ctenidodinium selwoodii*	130	*Mendicodinium* spp.
89	*Rosswangia simplex*	48	*Moesiodinium raileanui*
90	*Lithodinia* sp. 1	56	*Nannoceratopsis ambonis*
91	*Durotrigia omentifera*	25	*Nannoceratopsis* cf. *senex*
92	*Sirmiodiniopsis* sp.	9	*Nannoceratopsis dictyambonis*
93	*Ctenidodinium cornigerum*	6	*Nannoceratopsis gracilis* s.l.
94	*Chlamydophorella* spp.	103	*Nannoceratopsis pellucida*
95	*Sentusidinium rioultii*	32	*Nannoceratopsis plegas*
96	*Protobatioladinium mercieri*	18	*Nannoceratopsis* sp. B in Feist 1987
97	*Eodinia* spp.	68	*Nannoceratopsis spiculata*
98	*Lithodinia* cf. *caytonensis*	7	*Nannoceratopsis* spp.
99	gonyaulacoide Zyste indet. 1	12	*Nannoceratopsis triangulata*
100	*Orobodinium rete*	38	*Nannoceratopsis triceras*
101	*Willeidinium baiocassinum*	149	*Occisucysta balia*
102	*Ctenidodinium ornatum*	108	*Orobodinium automobile*
103	*Nannoceratopsis pellucida*	111	*Orobodinium changii*
104	*Gonyaulacysta eisenackii*	100	*Orobodinium rete*
105	*Cleistosphaeridium* sp. 1	78	*Orobodinium* spp.
106	*Ctenidodinium stauromatos*	40	*Ovalicysta hiata*
107	*Reutlingia gochtii*	60	*Pareodinia ceratophora*
108	*Orobodinium automobile*	124	*Pareodinia prolongata*
109	*Lithodinia jurassica*	112	*Pareodinia* sp. 1 in Feist-Burkhardt & Monteil 1998
110	*Endoscrinium* cf. *luridum*	69	*Pareodinia* sp. 2 in Feist-Burkhardt & Monteil 1998
111	*Orobodinium changii*	53	*Pareodinia* spp.
112	*Pareodinia* sp. 1 in Feist-Burkhardt & Monteil 1998	33	*Parvocysta*? *bjaerkei*
113	*Dissiliodinium minimum*	30	*Parvocysta*? *tricornuta*
114	*Ctenidodinium combazii*	65	*Phallocysta thomasii*
115	*Tubotuberella dangeardii*	11	*Phallocysta*? *frommernensis*
116	*Ctenidodinium tenellum*	141	*Polygonifera* sp.
117	*Gonyaulacysta* spp.	150	*Prolixosphaeridium anasillum*
118	gonyaulacoide Zyste indet 2	96	*Protobatioladinium mercieri*
119	*Chytroeisphaeridia scabrata*	24	*Reutlingia cardobarbata*
120	*Eodinia* sp. in Feist-Burkhardt & Wille 1992	37	*Reutlingia cracens*
121	*Wanaea cornucavata*	107	*Reutlingia gochtii*
122	*Cleistosphaeridium* sp. 2	29	*Reutlingia* sp. in Feist-Burkhardt & Pross 2010
123	*Carpathodinium* sp. 1	136	*Rhynchodiniopsis cladophora*
124	*Pareodinia prolongata*	72	*Rhynchodiniopsis*? *regalis*
125	*Sirmiodiniopsis orbis*	142	*Rigaudella aemula*
126	*Dingodinium minutum*	132	*Rigaudella filamentosa*
127	*Atopodinium prostatum*	89	*Rosswangia simplex*
128	*Gonyaulacysta jurassica*	3	*Scriniocassis limbicavatus*
129	*Adnatosphaeridium caulleryi*	4	*Scriniocassis priscus*
130	*Mendicodinium* spp.	1	*Scriniocassis weberi*
131	*Sentusidinium varispinosum*	151	*Scriniodinium crystallinum*
132	*Rigaudella filamentosa*	95	*Sentusidinium rioultii*
133	*Stephanelytron scarbourghense*	36	*Sentusidinium* spp.
134	*Korystocysta pachyderma*	131	*Sentusidinium varispinosum*
135	*Compositosphaeridium polonicum*	125	*Sirmiodiniopsis orbis*
136	*Rhynchodiniopsis cladophora*	92	*Sirmiodiniopsis* sp.
137	*Sirmiodinium grossii*	137	*Sirmiodinium grossii*
138	*Acanthaulax granulata*	152	*Stephanelytron redcliffense*
139	*Cleistosphaeridium lumectum*	133	*Stephanelytron scarbourghense*
140	*Leptodinium mirabile*	21	*Susadinium scrofoides*
141	*Polygonifera* sp.	153	*Systematophora areolata*
142	*Rigaudella aemula*	154	*Sytematophora* spp.
143	*Acanthaulax venusta*	159	*Taeniophora iunctispina*
144	*Cleistosphaeridium iaculigerum*	115	*Tubotuberella dangeardii*
145	*Ellipsoidictyum sp.*	76	*Valensiella ovulum*
146	*Endoscrinium galeritum*	74	*Valensiella/Ellipsoidictyum* complex
147	*Endoscrinium galeritum reticulatum*	17	*Valvaeodinium brevepellitum*
148	*Leptodinium arcuatum*	10	*Valvaeodinium cavum*
149	*Occisucysta balia*	19	*Valvaeodinium sphaerechinatum*
150	*Prolixosphaeridium anasillum*	66	*Valvaeodinium spinosum*
151	*Scriniodinium crystallinum*	27	*Valvaeodinium* spp.
152	*Stephanelytron redcliffense*	67	*Valvaeodinium vermicylindratum*
153	*Systematophora areolata*	26	*Valvaeodinium vermipellitum*
154	*Sytematophora* spp.	13	*Wallodinium laganum*
155	*Belodinium asaphum*	121	*Wanaea cornucavata*
156	*Ctenidodinium chondrum*	86	*Wanaea indotata*
157	*Glossodinium dimorphum*	23	*Weiachia* sp. A in Feist-Burkhardt & Pross 2010
158	*Leptodinium subtile*	101	*Willeidinium baiocassinum*
159	*Taeniophora iunctispina*	41	*Wittnaudinium minutum*

andere aquatische Palynomorphe:

Botryococcus
Cometodinium spp.
Cymatiosphaera spp.
Foraminiferentapeten, biserial
Foraminiferentapeten, uniserial
Foraminiferentapeten, spiralig
Fromea tornatilis
Hystrichosphaeridium? *deflandrei*
Kalyptea halosa
Kalyptea stegasta
Lunulidia sp. in Gocht 1964
Micrhystridium spp./*Baltisphaeridium* spp.
Pediastrum spp.
Pterospermopsis spp.
Schizocystia rara
Skolekodont
Tasmanites s.l.

Pollen & Sporen:

Acanthotriletes varius
Araucariacites australis
bisaccate Pollenkörner
Callialasporites dampieri
Callialasporites microvelatus
Callialasporites minor
Callialasporites segmentatus
Callialasporites turbatus
Cerebropollenites mesozoicus
Chasmatosporites apertus
Chasmatosporites hians
Classopollis torosus
Conbaculatisporites spp.
Concavisporites spp.
Cycadopites spp.
Deltoidospora australis
Deltoidospora minor
Densoisporites velatus
Dictyophyllidites harrisii
Dictyophyllidites mortoni
Dictyophyllidites sp.
Duplexisporites problematicus
Exesipollenites scabratus
Exesipollenites tumulus
Foveosporites spp.
Heliosporites altmarkensis
Ischyosporites variegatus
Kekryphalospora distincta
Leptolepidites major
Leptolepidites verrucatus
Lycopodiacidites rugulatus
Lycopodiumsporites austroclavatidites
Lycopodiumsporites clavatoides
Lycopodiumsporites gristhorpensis
Lycopodiumsporites reticulumsporites
Lycopodiumsporites semimuris
Matonisporites crassiangulatus
Microreticulatisporites spp.
Obtusisporis juncta
Osmundacidites wellmanii
Perinopollenites elatoides
Quadraeculina anellaeformis
Sphaeripollenites sp.
Staplinisporites caminus
Stereisporites spp.
Todisporites major
Todisporites minor
Trilites rariverrucatus
Uvaesporites argentaeformis
Vitreisporites pallidus

aufgearbeitete Palynomorphen:

Aratrisporites spp. (-> Trias)
Densosporites spp. (-> Devon-Trias)
Ovalipollis spp. (-> Trias)
Rhaetipollis germanicus (-> Rhät)
Ricciisporites tuberculatus (-> Rhät)

✦ = präsent
✦✦ = häufig
✦✦✦ = sehr häufig
DDDD = dominierend

Anlage 1: Bohrung Benken Range-Chart