

Supplementary Online Table 1. Taxa of fossil continental organisms (land plants, freshwater algae, fungi and tetrapods) recorded from the Cretaceous strata of the Kristianstad Basin in previous studies.

Localities: Ås = Åsen; Bk = Blaksudden; Bl = Balsvik; Bä = Bästekille; IK = Ivö Klack; Iv = Ivö; Ki = Kivik; Ry = Ryedal; Sm = Simrishamn; Sv = Svinaberg; Sx = Sixtorp bore no. 1.

Stratigraphic ranges: L = lower; U = upper.

Sources: 1 = Guy-Ohlson (1984); 2 = Ross (1949); 3 = Skarby (1974); 4 = Skarby (1978); 5 = Skarby (1964); 6 = Koppelhus & Batten (1989); 7 = Srinivasan & Friis (1989); 8 = Kunzmann & Friis (1999); 9 = Conwentz (1892); 10 = McLoughlin et al. (2018); 11 = Friis (1985); 12 = Leng et al. (2005); 13 = Friis (1983); 14 = Endress & Friis (1991); 15 = Friis & Pedersen (2012); 16 = Eklund et al. (1997); 17 = Crane et al. (1989); 18 = Herendeen (1991); 19 = Schönenberger & Friis (2001); 20 = Friis et al. (1988); 21 = Schönenberger et al. (2001); 22 = Friis & Skarby (1982); 23 = Friis (1990); 24 = Friis (1984); 25 = Friis et al. (2006); 26 = Friis et al. (2011); 27 = Friis & Crane (1989); 28 = Skarby (1968); 29 = Hultberg et al. (1984); 30 = Skarby (1986); 31 = Skarby et al. (1990); 32 = Skarby & Rowley (1993); 33 = Polette & Batten (2017); 34 = Krutzsch (1970); 35 = Skarby et al. (2004); 36 = Felix (1894); 37 = Rees & Lindgren (2005); 38 = Lambrecht (1933); 39 = Lindgren et al. (2007); 40 = Poropat et al. (2016); 41 = Nathorst (1891); 42 = Lindgren (1980).

Taxonomic designation*	Locality	Stratigraphic range	Source
Plants			
Bryophytes (microspores)			
<i>Cingutritiles</i> sp.	Sx	Albian	1
<i>Cingutritiles</i> sp. cf. <i>C. clavus</i> (Balme) Dettmann, 1963	Sx	Albian	1
" <i>Trilites psilatus</i> "	Ås	L. Campanian	2
Lycophytes (microspores)			
<i>Densoisporites</i> sp.	Sx	Albian	1
<i>Lycopodium cerniidites</i> Ross, 1949	Ås	L. Campanian	2
<i>Patellasporites</i> sp. cf. <i>P. distaverrucosus</i> (Brenner) Kemp, 1970	Sx	Albian	1
<i>Patellasporites</i> sp.	Sx	Albian	1
cf. <i>Reticulisporites vermiformis</i> Kemp, 1970	Sx	Albian	1
Ferns (microspores)			
" <i>Anemiidites echinatus</i> "	Ås	L. Campanian	2
<i>Cibotioidites tuberculiformis</i> (Cookson) Skarby, 1974	Ås	L. Campanian	3
<i>Cibotioidites zonatus</i> Ross, 1949	Ås	L. Campanian	2, 3
<i>Cicatricosisporites dorogensis</i> Potonié et Gelletich, 1933	Sx	Albian	1
<i>Cicatricosisporites</i> sp. A	Sx	Albian	1
<i>Cicatricosisporites</i> sp. B	Sx	Albian	1
<i>Cicatricosisporites</i> sp. C	Sx	Albian	1
<i>Cicatricosporites nodosus</i> Skarby, 1978	Sx	L. Campanian	4
<i>Cicatricosporites</i> sp. A	?	L. Campanian	4
<i>Cicatricosporites</i> sp. B	Bk, Iv	L. Campanian	4
<i>Clavifera triplex</i> (Bolkhovitina) Bolkhovitina, 1966	Sx	Albian	1
<i>Crybelosporites vectensis</i> Kemp, 1970	Sx	Albian	1
<i>Cyathidites australis</i> Couper, 1953	Sx	Albian	1
<i>Cyathidites concavus</i> (Bolkhovitina) Dettmann, 1963	Sx	Albian	1
<i>Cyathidites minor</i> Couper, 1953	Sx	Albian	1
<i>Echinatisporites</i> sp. cf. <i>E. longechinus</i> Krutzsch, 1959	Sx	Albian	1
<i>Foveotritiles</i> (<i>Trilites</i>) <i>scrobiculatus</i> (Ross) Potonié, 1956	Ås	L. Campanian	2

<i>Gleicheniidites senonicus</i> Ross, 1949 emend. Skarby, 1964	Ås	L. Campanian	1, 2, 5
" <i>Gleicheniidites</i> " sp. cf. <i>G. apilobatus</i> Brenner, 1963	Sx	Albian	1
<i>Ischyosporites</i> sp.	Sx	Albian	1
<i>Laevigatosporites</i> sp. cf <i>L. gracilis</i> Wilson et Webster, 1946	Sx	Albian	1
<i>Laevigatosporites</i> sp. cf <i>L. ovatus</i> Wilson et Webster, 1946	Sx	Albian	1
" <i>Microlepidites psilatus</i> "	Ås	L. Campanian	2
<i>Polypodioidites senonicus</i> Ross, 1949	Ås	L. Campanian	2
<i>Reticulosporis scanicus</i> Skarby, 1978	Bk, Iv	L. Campanian	4
" <i>Trilites cristatus</i> "	Ås	L. Campanian	2
<i>Vadaszisorites urkuticus</i> (Deak) Deak et Combaz, 1967	Sx	Albian	1
Megaspores			
<i>Bacutrilites ferulus</i> Koppelhus et Batten, 1989	Ås	L. Campanian	6
<i>Bacutrilites majorinus</i> Koppelhus et Batten, 1989	Ås	L. Campanian	6
<i>Bacutrilites</i> sp.	Ås	L. Campanian	6
<i>Caboehonicus carbunculus</i> (Dijkstra) Batten et Ferguson, 1987	Ås	L. Campanian	6
<i>Echitrilites</i> sp.	Ås	L. Campanian	6
<i>Erlansonisporites scanicus</i> Koppelhus et Batten, 1989	Ås	L. Campanian	6
<i>Erlansonisporites septus</i> Koppelhus et Batten, 1989	Ås	L. Campanian	6
<i>Maexisporites hammaphorus</i> Schultz et Noll, 1987	Ås	L. Campanian	6
<i>Maexisporites soldanellus</i> (Dijkstra) Potonié, 1956	Ås	L. Campanian	6
<i>Maexisporites</i> spp.	Ås	L. Campanian	6
<i>Ricinospora</i> sp.	Ås	L. Campanian	6
<i>Rugotrilites costatus</i> (Dijkstra) Potonié, 1956	Ås	L. Campanian	6
<i>Rugotrilites</i> sp.	Ås	L. Campanian	6
<i>Tenellisporites</i> sp. cf. <i>T. aachenensis</i> (Dijkstra) Potonié, 1956	Ås	L. Campanian	6
<i>Tenellisporites</i> sp. cf. <i>T. tenellus</i> (Dijkstra) Potonié, 1956	Ås	L. Campanian	6
<i>Thylakosporites retiarius</i> (Hughes) Potonié, 1956	Ås	L. Campanian	6
<i>Trileites murrayi</i> (Harris) Marcinkiewicz, 1971	Ås	L. Campanian	6
<i>Trileites persimilis</i> (Harris) Potonié, 1956	Ås	L. Campanian	6
<i>Trileites</i> sp.	Ås	L. Campanian	6
<i>Verrutrilites</i> sp. cf. <i>V. compositipunctatus</i> (Dijkstra) Potonié, 1956	Ås	L. Campanian	6
Conifers (meso-/macrofossils)			
<i>Elatidopsis nykvistii</i> Srinivasan et Friis, 1989	Ås	L. Campanian	7
<i>Geinitzia kryshstofovichii</i> (Dorofeev) Knobloch et Mai, 1986	Ås	L. Campanian	8
cf. <i>Kozykorpeshia kokchetavica</i> Dorofeev, 1979	Ås	L. Campanian	8
<i>Paracryptomeria elegans</i> Srinivasan et Friis, 1989	Ås	L. Campanian	7
<i>Pinites nathorstii</i> Conwentz, 1892 (= <i>Fricia nathorstii</i> , this study)	Ry	?Santonian–L. Campanian	9, 10
<i>Quasisequoia aasenensis</i> Srinivasan et Friis, 1989	Ås	L. Campanian	7
<i>Quasisequoia florinii</i> Srinivasan et Friis, 1989	Ås	L. Campanian	7
<i>Quasisequoia scanica</i> Srinivasan et Friis, 1989	Ås	L. Campanian	7
<i>Quasisequoia suecica</i> Srinivasan et Friis, 1989	Ås	L. Campanian	7
" <i>Sequoites holsti</i> " Nathorst, 1888	Ås	?Campanian	9
Unassigned pollen cones	Ås	L. Campanian	7
Unassigned seed cones and seeds	Ås	L. Campanian	7
Gymnosperms (pollen)			
<i>Araucariacites australis</i> Cookson, 1947	Sx	Albian	1
<i>Callialasporites</i> sp.	Sx	Albian	1
<i>Cerebropollenites mesozoicus</i> (Couper) Nilsson, 1958	Sx	Albian	1
<i>Ephedra</i> sp.?	Sx	Albian	1
<i>Eucommiidites stuartii</i> Kemp, 1970	Sx	Albian	1
<i>Eucommiidites troedssonii</i> Erdtman, 1958	Sx	Albian	1

<i>Exesipollenites tumulus</i> Balme, 1957	Sx	Albian	1
<i>Monosulcites minimus</i> Cookson, 1947	Sx	Albian	1
<i>Parvisaccites</i> sp.	Sx	Albian	1
<i>Perinopollenites elatoides</i> Couper, 1958	Sx	Albian	1
<i>Pinus</i> "haploxylon-type"	Ås	L. Campanian	2
<i>Pinus</i> "silvestris-type"	Ås	L. Campanian	2
<i>Rugubivesiculites reductus</i> Pierce, 1961	Sx	Albian	1
<i>Vitreisporites pallidus</i> (Reissinger) Nilsson, 1958	Sx	Albian	1
<i>Vittatina cretacea</i> Pocock, 1962	Sx	Albian	1
Angiosperms (meso-/macrofossils)			
<i>Actinocalyx bohrii</i> Friis, 1985	Ås	L. Campanian	11
<i>Agapitocarpus emisus</i> Leng, Schönenberger et Friis, 2005	Ås	L. Campanian	12
<i>Antiquocarya nuda</i> Friis, 1983	Ås	L. Campanian	13
<i>Antiquocarya verruculosa</i> Friis, 1983	Ås	L. Campanian	13
<i>Archamamelis bivalvis</i> Endress et Friis, 1991	Ås	L. Campanian	14
<i>Bertilanthus scanicus</i> Friis et Pedersen, 2012	Ås	L. Campanian	15
<i>Caryanthus deltoides</i> (Knobloch) Friis, 1983	Ås	L. Campanian	13
<i>Caryanthus elongatus</i> Friis, 1983	Ås	L. Campanian	13
<i>Caryanthus knoblochii</i> Friis, 1983	Ås	L. Campanian	13
<i>Caryanthus</i> sp.?	Ås	L. Campanian	13
<i>Chloranthistemon alatus</i> Eklund, Friis et Pedersen, 1997	Ås	L. Campanian	16
<i>Chloranthistemon endressii</i> Crane, Friis et Pedersen, 1989	Ås	L. Campanian	17
<i>Chontrocarpus pachytoichus</i> Leng, Schönenberger et Friis, 2005	Ås	L. Campanian	12
<i>Icacinoxylon</i> sp.	Ås	L. Campanian	18
<i>Maiandrocarpus moirasmenus</i> Leng, Schönenberger et Friis, 2005	Ås	L. Campanian	12
<i>Malliocarpus batrachoides</i> Leng, Schönenberger et Friis, 2005	Ås	L. Campanian	12
<i>Manningia crassa</i> Friis, 1983	Ås	L. Campanian	13
<i>Mitocarpus elegans</i> Leng, Schönenberger et Friis, 2005	Ås	L. Campanian	12
<i>Paradinandra suecica</i> Schönenberger et Friis, 2001	Ås	L. Campanian	19
<i>Platananthus scanicus</i> Friis, Crane et Pedersen, 1989	Ås	L. Campanian	20
<i>Platanocarpus</i> sp.	Ås	L. Campanian	20
<i>Platydiscus peltatus</i> Schönenberger et Friis, 2001	Ås	L. Campanian	21
<i>Scandianthus costatus</i> Friis et Skarby, 1982	Ås	L. Campanian	22
<i>Scandianthus major</i> Friis et Skarby, 1982	Ås	L. Campanian	22
<i>Silvianthemum suecicum</i> Friis, 1990	Ås	L. Campanian	23
Unassigned platanoid infructescence	Ås	L. Campanian	20
Unnamed flower with epigynous ovary	Ås	L. Campanian	24, 25, 26
Unnamed hypogynous flower	Ås	L. Campanian	27
<i>Xylocarpus rhitidodes</i> Leng, Schönenberger et Friis, 2005	Ås	L. Campanian	12
<i>Zeugarocarpus adroacathus</i> Leng, Schönenberger et Friis, 2005	Ås	L. Campanian	12
<i>Zeugarocarpus leptogathus</i> Leng, Schönenberger et Friis, 2005	Ås	L. Campanian	12
Angiosperms (pollen)			
<i>Clavatipollenites hughesii</i> Couper, 1958	Sx	Albian	1
<i>Clavatipollenites</i> sp. A	Sx	Albian	1
<i>Clavatipollenites</i> sp. B	Sx	Albian	1
<i>Complexipollis pratumescens</i> [sic] [= <i>Complexiopollis praeatumescens</i>] Krutzsch, 1959	Sx	Albian	1
<i>Extratropopollenites cyclostomus</i> Skarby, 1968	Ås, Bk	U Santonian–L Campanian	28
<i>Extratropopollenites desidens</i> Skarby, 1968	Ås, Bk	U Santonian–L Campanian	28
<i>Extratropopollenites emaciatus</i> Skarby, 1968	Ås, Bk	U Santonian–L Campanian	28
<i>Extratropopollenites firmus</i> Skarby, 1968	Ås, Bk	U Santonian–L Campanian	28, 29

<i>Extratropopollenites inflexus</i> Skarby, 1968	Ås, Bk	U Santonian–L Campanian	28
<i>Extratropopollenites lepidus</i> Skarby, 1968	Ås, Bk	U Santonian–L Campanian	28
<i>Extratropopollenites nonperfectus</i> (Pflug) Skarby, 1968	Ås, Bk	U Santonian–L Campanian	28
<i>Extratropopollenites opimus</i> Skarby, 1968	Ås, Bk	U Santonian–L Campanian	28
<i>Extratropopollenites penesertus</i> (Pflug) Skarby, 1968	Ås, Bk	U Santonian–L Campanian	28
<i>Extratropopollenites perlucidus</i> Skarby, 1968	Ås, Bk	U Santonian–L Campanian	28
<i>Extratropopollenites serta</i> (Pflug) Skarby, 1968	Ås, Bk	U Santonian–L Campanian	28
<i>Extratropopollenites silicatus</i> (Pflug) Skarby, 1968	Ås, Bk	U Santonian–L Campanian	28
<i>Extratropopollenites sinuatus</i> Skarby, 1968	Ås, Bk	U Santonian–L Campanian	2, 28
<i>Extratropopollenites tenellus</i> Skarby, 1968	Ås, Bk	U Santonian–L Campanian	28
<i>Extratropopollenites teres</i> Skarby, 1968	Ås	L. Campanian	28
<i>Extratropopollenites</i> (<i>Triorites</i>) <i>vestibulus</i> (Ross) Skarby, 1968	Ås, Bk	U Santonian–L Campanian	2, 28
<i>Normapolles</i> type	Ås	L. Campanian	30, 31, 32
<i>Oculopollis aestheticus</i> Weyland et Krieger, 1953 emend. Polette et Batten, 2017	Ås, Bk	U Santonian–L Campanian	28, 33
<i>Oculopollis artifex</i> (Weyland et Krieger) Polette et Batten, 2017	Ås, Bk	U Santonian–L Campanian	28, 29, 33
<i>Oculopollis concentricoides</i> Weyland et Krieger, 1953 emend. Polette et Batten, 2017	Ås	L. Campanian	33
<i>Oculopollis principalis</i> Weyland et Krieger, 1953 emend. Polette et Batten, 2017	Ås	L. Campanian	33
<i>Oculopollis rector</i> (Pflug) Polette et Batten, 2017	Ås	L. Campanian	33
<i>Oculopollis triceps</i> (Skarby) Polette et Batten, 2017	Ås, Bk	U Santonian–L Campanian	2, 28, 29, 33
<i>Oculopollis</i> sp. cf. <i>O. triceps</i> (Skarby) Polette et Batten, 2017	Ås	L. Campanian	33
<i>Oculopollis viriosus</i> Polette et Batten, 2017	Ås	L. Campanian	33
<i>Oculopollis</i> sp. A Polette et Batten, 2017	Ås	L. Campanian	33
<i>Rossipollis</i> (<i>Monosulcites</i>) <i>reticulatus</i> (Ross) Krutzsch, 1970	Ås	L. Campanian	2, 34, 35
<i>Tricolpites albiensis</i> Kemp, 1968	Sx	Albian	1
<i>Tricolpites parvus</i> Stanley, 1965	Sx	Albian	1
" <i>Tricolpites peroblatus</i> "	Ås	L. Campanian	2
" <i>Tricolporites pilatus</i> "	Ås	L. Campanian	2
" <i>Tricolporites reticulatus</i> "	Ås	L. Campanian	2
<i>Trudopollis geometricus</i> Weyland et Krieger, 1953 emend. Polette et Batten, 2017	Ås, Bk	U Santonian–L Campanian	28, 33
<i>Trudopollis hemimechanicus</i> Pflug, 1953 emend. Polette et Batten, 2017	Ås	L. Campanian	33
<i>Trudopollis hemiperfectus</i> (Pflug in Thomson et Pflug) Pflug, 1953 emend. Polette et Batten, 2017	Ås, Bk	U Santonian–L Campanian	28, 33
<i>Trudopollis pompeckjii</i> (Potonié) Pflug, 1953 emend. Polette et Batten, 2017	Ås	L. Campanian	33
<i>Trudopollis protrudens</i> (Erdtman in Ross) Pflug, 1953 emend. Polette et Batten, 2017	Ås	L. Campanian	2, 33
<i>Trudopollis</i> sp. A	Ås	L. Campanian	33
<i>Trudopollis spinulosus</i> Skarby, 1968 emend. Polette et Batten, 2017	Ås, Bk	U Santonian–L Campanian	28, 33
Other plant macrofossils			
<i>Cedroxylon ryedalense</i> Conwentz, 1892	Ry	?Santonian–L. Campanian	9, 10
<i>Rhizocupressinoxylon</i> sp.	Bä, Ki, Sm, Sv	?Campanian	9
<i>Weichselia erratica</i> Nathorst, 1891	N. Germany (erratic of Holma Sst)	?Santonian–L. Campanian	41
Freshwater algae			
<i>Botryococcus</i> sp.	Sx	U Santonian–L Campanian	1
<i>Tetraporina denticulata</i> Lindgren, 1980	Ås	U Santonian–L Campanian	42
<i>Tetraporina diagonalis</i> Lindgren, 1980	Ås	U Santonian–L Campanian	42

<i>Tetraporina foveolata</i> Lindgren, 1980	Ås	U Santonian–L Campanian	42
<i>Tetraporina mamillata</i> Lindgren, 1980	Ås	U Santonian–L Campanian	42
<i>Tetraporina pulvinula</i> Lindgren, 1980	Ås	U Santonian–L Campanian	42
<i>Tetraporina scanica</i> Lindgren, 1980	Ås	U Santonian–L Campanian	42
<i>Tetraporina spinifera</i> Lindgren, 1980	Ås	U Santonian–L Campanian	42
<i>Tetraporina verruculosa</i> Lindgren, 1980	Ås	U Santonian–L Campanian	42
<i>Tetraporina vesiculata</i> Lindgren, 1980	Ås	U Santonian–L Campanian	42
<i>Tetraporina villandica</i> Lindgren, 1980	Ås	U Santonian–L Campanian	42
<i>Tetraporina</i> sp. A	Ås	U Santonian–L Campanian	42
<i>Tetraporina</i> sp. B	Ås	U Santonian–L Campanian	42
<i>Tetraporina</i> sp. C	Ås	U Santonian–L Campanian	42
<i>Tetraporina</i> sp. D	Ås	U Santonian–L Campanian	42
Fungi			
<i>Trichosporites conwentzii</i> Felix, 1894	Ry	?Santonian–L. Campanian	36
Vertebrates			
Birds			
<i>Baptornis</i> sp.	IK	L. Campanian	37
<i>Hesperornis rossicus</i> Nessel et Yarkov, 1993	IK	L. Campanian	37
<i>Hesperornis</i> sp.	IK	L. Campanian	37, 38
Other dinosaurs			
Leptoceratopsidae indet.	Ås	UL–LU Campanian	39
Leptoceratopsidae indet.	Ås	UL Campanian	40
Ornithopoda indet.	Ås	UL–LU Campanian	40
Theropoda indet.	Ås	UL–LU Campanian	40

*For references to taxon authorities, see the source references in the column furthest to the right.

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