**Appendix A. Supplementary data**

**List of taxa. Complete list of species mentioned in this work (in alphabetical order)**

*Miospores*

*Acinosporites* cf. *hirsutus* (Brideaux and Radforth) Richardson and McGregor 1982

*Acinosporites* sp.

*Ancyrospora ancyrea* (Eisenack) Richardson 1962

*Ancyrospora* cf. *implicata* Bharadwaj, Tiwari and. Venkatachala 1973

*Ancyrospora* sp.

*Aneurospora goensis* Lele and Streel 1969

*Aneurospora greggsii* (McGregor) Streel 1974

*Apiculatasporites* cf. *microconus* (Richardson) McGregor and Camfield 1982

*Apiculatasporites* sp.

*Apiculiretusispora plicata* (Allen) Streel 1967

*Apiculiretusispora* sp.

*Archaeozonotriletes* sp.

*Auroraspora* cf. *asperella* (Kedo) Van der Zwan 1980

*Auroraspora hialina* (Naumova) Streel in Becker et al. 1974

*Auroraspora* sp.

*Camarozonotriletes* sp.

*Chelinospora ligurata* Allen 1965

*Chelinospora* sp.

*Convolutispora* sp.

*Cristatisporites inusitatus* (Allen) McGregor and Camfield 1982

*Cristatisporites triangulatus* (Allen) McGregor and Camfield 1982

*Cristatisporites* sp.

*Cristicavatispora dispersa*

*Cymbosporites magnificus* (McGregor) McGregor and Camfield 1982

*Cymbosporites* sp.

*Densosporites* cf. *inaequus*

*Densosporites* sp.

*Dibolisporites* sp.

*Dictyotriletes* cf. *emsiensis* (Allen) McGregor 1973

*Dictyotriletes* sp.

*Diducites* sp.

*Emphanisporites annulatus* McGregor 1961

*Emphanisporites rotatus* (McGregor) emend. McGregor 1973

*Emphanisporites* sp.

*Geminospora lemurata* (Balme) emend. Playford 1983

*Geminospora spongiata* Higgs, Clayton and Keegan 1988

*Geminospora* sp.

*Grandispora* cf. *inculta* Allen 1965

*Grandispora* cf. *megaformis* (Richardson) McGregor 1973

*Grandispora echinata* Hacquebard 1957

*Grandispora* cf. *echinata* Hacquebard 1957

*Grandispora famenensis* (Naumova) Streel 1974 var. *famenensis* Higgs et al. 2000

*Grandispora famenensis* (Naumova) Streel 1974 var. *minuta* Higgs et al. 2000

*Grandispora* cf. *famenensis* (Naumova) Streel 1974

*Grandispora gracilis* (Kedo) Streel in Becker et al. 1974

*Grandispora* cf. *gracilis* (Kedo) Streel in Becker et al. 1974

*Grandispora* cf. *microseta* (Kedo) Streel in Becker et al. 1974

*Grandispora protea* (Naumova) Moreau-Benoit 1980

Grandispora cf. *protea* (Naumova) Moreau-Benoit 1980

*Grandispora* sp.

*Lophozonotriletes* sp.

*Punctatisporites minutus* Kosanke 1950

*Punctatisporites planus* Hacquebard 1957

*Punctatisporites solidus* Hacquebard 1957

*Punctatisporites* sp.

*Retusotriletes* cf. *maculatus* McGregor and Camfield 1982

*Retusotriletes phillipsii* Clendening, Eames and Wood 1980

*Retusotriletes planus* Dolby and Neves 1970

*Retusotriletes rotundus* (Streel) Streel 1967

*Retusotriletes rugulatus* Riegel 1973

*Retusotriletes* cf. *rugulatus* Riegel 1973

*Retusotriletes triangulatus* (Streel) Streel 1967

*Retusotriletes* sp.

*Rhabdosporites* cf. *minutus* Tiwari and Schaarschmidt 1975

*Rugospora bricei* Loboziak and Streel 1989

*Rugospora explicata* (Jushko) Streel 1974

*Rugospora flexuosa* (Jushko) Streel 1974

*Verruciretusispora dubia* (Eisenack) Richardson and Rasul 1978

*Verruciretusispora loboziakii* Higgs and Finucane 2002

*Verrucosisporites* cf. *bulliferus* Richardson and McGregor 1986

*Verrucosisporites premnus* Richardson 1965

*Verrucosisporites scurrus* (Naumova) McGregor and Camfield 1982

*Verrucosisporites* sp.

*Acritarchs*

*Deltotosoma* sp.

*Dupliciradiatum* sp.

*Gorgonisphaeridium* sp.

*Veryhachium downiei* Stockmans and Willièrre 1962

*Veryhachium trispinosum* (Eisenack) Stockmans and Willierre 1962

*Prasinophytes*

*Leiosphaeridia* sp.

*Dictyotidium* sp.

*Maranhites mosesii* (Sommer) Brito 1967

*Maranhites perplexus* Wicander and Playford 1985

*Maranhites* sp.

Chitinozoan

*Angochitina* sp.

*Lagenochitina* sp.