

GONIOSPHAERIDIUM uncinatum

(Downie) Kjellström 1971

- 1958 *Hyalichorphaeridium longispinum* var *uncinatum* Downie, p. 337, fig. 2a
1965 *Baltesphaeridium longispinum* var *uncinatum* (Downie) Downie-Sargeant, p. 92
1965 *Baltesphaeridium uncinatum* (Downie) Martin, p. 425, fig. 1
1970 *Murchystridium uncinatum* (Downie) Cramer, p. 107-108, pl. 6, fig. 97, 98, 101
1971 *Goniosphaeridium uncinatum* (Downie) Kjellström, p. 27-28, pl. 18.

1951 *Hyalichorphaeridium* sp. ex aff. *longispinum* Eisenack, p. 191, pl. 3, fig. 7

> POLYGONIUM by Richardson - Karst 1978

retained in GONIOSPHAERIDIUM by Welch 1986

> STELLECHINATUM by Molyneux 1987 p. 342, 344

- Downie 1958: Tremadocian, England
- Eirenack 1951: early Ordovician, Estonia
- Welsh 1946 (p. 50, pl. 7, fig. 19-22): Early Tremadocian, N. Norway
- Rasul & Downie 1974: Tremadocian, England (early-late)
- Raucher 1971: Early Arenigian, France
- Fournier-Viras 1978 (pl. 2, fig. 1, 9): Tremadocian - early Arenigian, France
- (?) Gardere et al 1974: early Tremadocian - Arenigian ~~Algeria~~, Algerian Sahara
- Martin 1965: Tremadocian - Arenigian, Belgium - Llanvirn (abundant)
- Martin 1969a (p. 66-67, pl. 1, fig. 17, 21, pl. 2, fig. 70, 96): Tremadocian - Arenigian, Belgium
 pl. 5, fig. 22f, pl. 6, fig. 267 + Wentloot & Ludlow
- Raucher 1973 (p. 97, pl. 5, fig. 5-6, pl. 9, fig. 11): Llanvirnian, France
- Kjellstrom 1971b (p. 27-28, fig. 12): middle Ordovician, Denmark Sweden
- Herry 1969 (p. 77, pl. 1, fig. 8, 10): Caradocian, England
- Martin 1966 (p. 425, fig. 1): early Llandoveryan - early Wenlockian, Belgium
- Kramer 1970 (p. 107-108, pl. 6, fig. 97, 98): early Silurian, Libya - Saudi Arabia
- Wolf 1980a, 1980b: early Tremadocian - Arenigian, Spain
- Welsh 1946 (p. 50, pl. 7, fig. 19-22): Early Tremadocian, N. Norway

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- Vanguetaine 1978a : Arenigian/Llanvirnian, Belgium
- * Vanguetaine 1973b : late Cambrian, Belgium
- Vavrdova 1977 : Arenigian/Llanvirnian & early Llanvirnian, Czechoslovakia
- Martin 1975 : early Tremadocian & probably Llanvirnian, Belgium
- Martin & Dean 1981 : late Cambrian - early Tremadocian, & Canada
- Baudelot Bouillier & Scoiffait 1981 : Tremadocian, Algeria
- Baudelot & Gery 1979 : Tremadocian, Algeria
- Dez & Cramer 1974 : Tremadocian - early Wenlockian range
- Downie 1984 (fig 2.57) : Tremadocian - early Llanvirnian, Britain
- Cocchi 1982 (pl. 1, fig. 3) : Tremadocian - Arenigian, France
- (cf) Pothe de Baldis 1981 (p. 242, pl. 4, figs. 3, 5, 7) : early Ludlovian, Argentina
- Elaouad-Debbaj 1988b (p. 102, pl. 4, figs. 12, 15, 19-20, pl. 6, fig. 3) : Tremadocian, Morocco
- Deurff & Massa 1975 (Fig 2) : Tremadocian, Libya
- Kjellström 1972c : Middle Ordovician, Sweden
- Molyneux 1979 : late Tremadocian - late Arenigian, Isle of Man
- Vavrdova 1972 : Arenigian, Czechoslovakia

(?) Roche, Sabir et al. 1986 (pl. 4, fig. 13): reworked Belgium

Martin 1967: late Llandoveryan - early Wenlockian, Belgium

Burmann 1970: late Llanvirnian Germany

Tynn, 1975 (p. 20-21, fig. 16): Middle? Ordovician, Finland

Cramer 1971 (pl. 2, fig. 1): Ordovician

Martin 1966b (p. 3-4, text-fig. 1): late Arenigian & Llandeilian, Belgium

Vanguetaine 1966b: Late Cambrian Belgium

Fournier-Vinas 1985 (pl. 4 fig. 5): Arenigian/Llanvirnian Morocco

Martin 1973 (p. 9-10, pl. 7, fig. 15): Tremadocian France

Martin & Dean & Martin 1978: Tremadocian - Arenigian E. Canada

Martin 1969b: Arenigian/Llanvirnian Belgium

Bockelie & Kjellström 1979 (p. 212, fig. 12): Middle Ordovician Estonia

Vavrdová 1972a: Late Arenigian Czechoslovakia

Reitz & Höll 1991 (pl. 2, fig. 7) Arenigian Eastern Alps

Mette 1989 (pl. 2, fig. 8-10) latest Tremadoc SW Spain

[late Arenig/early Llanvirn

Vavrdová 1993: late Early Arenig Czech Republic

Vanguetaine 1991: Tremadocian Belgium

Herbosch, Vanguetaine et al. 1991 Tremadocian Belgium

Molyneux 1990 Late Arenig Wales

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- Tongiorgi, Yin & Di Mita 1995 : late Early Arenigian S. China
- Stroomans 1989a (p. 308 pl. 5, figs. 1-4 text-fig. 167) Lochkovian Belgium
- (cf.) Rubinsteyn 1995 : Ludlovian Argentina
- Pittau 1985 : Late Tremadocian - ? Earliest Arenigian Sardinia Italy
- Wolf 1980b : Tremadoc Spain
- Hafenrichter 1980 : Llandovery Spain
- Volkova & Mens 1988 : Early Ordovician North Estonia
- Welsch 1986b : Early Tremadoc Norway
- Volkova 1990 : Late Cambrian East European Platform
- Yin 1986 (p. 347-348 pl. 53 fig. 1-2, 6, pl. 94 fig. 6)
Late Cambrian - Early Tremadoc Dayangta China
- Fu 1986b (pl. 2, fig. 19) Llanvirn Shaanxi, China
- Gao 1991b (pl. 1, fig. 5) : Arenig Yunnan Province China
- Volkova 1988a : Early Tremadoc Estonia
- (cf.) Majeurte - Mejjoulas et al. 1986 : Cambrian / Early ? Tremadoc
Sicily, Italy
- Chen, Qian, Zhang et al. 1988 Late Cambrian - Early Ordovician Jilin Province China

- (cf.) Bouillin et al. 1987 : probable Early Tremadoc Sicily Italy
Fang 1987 (pl. 10, figs. 11-12) Arenig Yunnan Province China
- (aff.) Pöthe de Baldis 1997b (p. 45 pl. 2, fig. 15): E. / M. Llandovery
San Juan Province Argentina
- Bessière & Baudelot 1988 : Tremadoc / Arenig Aude France
- Tongiorgi & Di Milia 1999 : { late Early Llanvirn Spain
Early Llanvirn Belgium
- (cf.) Parsons & Anderson 2000 (p. 65-66 pl. 3 figs. 18-19)
Early Cambrian - Early Tremadoc
Random Island eastern Newfoundland Canada
- (cf.) Rahmani 1983 (p. 62 pl. 1, figs. 10-12)
Arenig - Llanvirn / Llandello Rabat Region Morocco
- Szczepanik 1997 (pl. 1, figs. 6, 15, 19) : Early Cambrian Poland
- Chateaufort, Jenny & Stampfl 1978 (Figure 3) :
Caradoc E. Elburg, Iran
- Shavidel-Syooki 2003b : Caradoc / Ashgill - Ashgill
(pl. 3, fig. 11) eastern Central Iran
- Pittau 1985b : probable latest Tremadoc Is Arenas, Sardinia, Italy

SONIOSPHAERIDIUM uncinatum

- Volkova 1989a : Late Cambrian-Tremadoc, northern Estonia
 Albani, Di Milia, Mingoni & Tongiorgi 1985 : Aronig
 (pl. 4, fig. 12) Central Sardinia Italy
 Elaouad-Debbaj (1978) 1981 : Caradoc
 (p. 37-38, pl. 18, fig. 6) Bucaco Syncline Portugal
 Cocchio 1981 thesis (p. 54, pl. 1 fig. 5) Tremadoc
 Massif de Mouthoumet (Corbieres, Aude), southern France
 (cf.) Deam, Monod, Rickards, Demir & Bultynck 2000 : Tremadoc
 'Karadere - Zirze area Pontus Mts, Northern Turkey
 (cf.) Sergeeva, Nachev & Mal'akov 1979 : 'Ordovician
 Strandzha Bulgaria

