

'CRISTALLINIUM ovillense'

(Cramer & Diez) Martin in Martin
& Dean 1981

- 1972a *Zonosphaeridium* sp 1 Cramer, pl. 1, figs 4, 6
1972 *Zonosphaeridium ovillense* Cramer & Diez, p. 44-47, pl. 2, fig 5, f, 11
1978 *Zonosphaeridium* sp Fombella, pl. 3, fig 16, 17
1981 *Cristallinium ovillense* (C. & D.) Martin in Martin & Dean, p. 17-18, pl. 3, fig 16

(*>* CRISTALLINIUM *deceptum* by Fensholt et al 1990 p. 161)

C. deceptum is a junior synonym of this species; the name '*C. deceptum*' is also not validly published since no description or direct reference to a description has been provided. - see Molyneux & Fensholt in Molyneux et al 1996 p. 517

- Cramer & Diez 1972: late Middle Cambrian, Spain
- Erkmen & Bozdogan 1981 (cf., p. 56, pl. 2, fig. 12): Middle Cambrian Turkey
- Martin & Dean 1981: 'late Cambrian' & Canada (+ plate 4, fig. 60, W)
- Fombella 1979 (pl. 2, fig. 25), pl. 3, fig. 43): middle Cambrian - late Cambrian/Trem. N Spain
- Fombella 1978 (pl. 3, fig. 16, 17):
- Welsch 1986 (p. 76-77, pl. 2, figs. 25-28): middle Cambrian, Norway
- Fombella 1982 (p. 19, pl. 2, fig. 22): 'middle Cambrian - Tremadocian', N Spain
- Vanguestaine 1986b: 'Late Cambrian' Belgium
- (aff) Albani, Massa & Tongiorgi, 1991 (p. 268-269, pl. 1, fig. 6) Late Cambrian ^{Libya /} Tunisia
- Di Milia 1991 (p. 134, pl. 1, figs. 10-11): Late Cambrian Sardinia Italy
- Pittau 1985 (p. 201, pl. 7, figs. 1-2, 4): Tremadocian NW Sardinia
- Fombella 1986 (pl. 3, fig. 15): Early Tremadocian N Spain - probably older - see Vanguestaine & Van Looy 1983
- Mehrjerdi 2001: latest Cambrian/earliest Tremadoc
 (pl. 1, fig. 2) - mid Tremadoc
 northern Tabas City East-Central Iran
- (Charidel-syooki & Vecoli 2008): Middle-early Late Cambrian
 (pl. 2, fig. 4) High Zagros Mts, southern Iran

CRISTALLINIUM ovillense (Cramer & Diez) Fenrome et al 1990
p. 161

- 1972a Cymatiosphaera ovillensis Cramer & Diez, p. 44, pl. 2, fig. 4, 7, 10.
- 1968a Dictyotidium cambrienre Slaviková, p. 201, pl. 2, fig. 1, 3 invalid
- 1976 Cymatiosphaera lazdynica Yankauskas, p. 190-191, pl. 25, fig. 4-5, 8, 10
- 1976 Cymatiosphaera favosa Yankauskas p. 190, pl. 25, fig. 7, 13
- 1986 Cristallinium ovillense (Cramer & Diez) Fombella, capitulo pl. 3 invalid

Now retained in Cymatiosphaera by Molyneux & Fenrome in Molyneux et al 1996 (p. 517) on the basis of remarks by Martin & Young et al 1994.

This combination is illegitimate (as a junior homonym), because it is junior to the combination Cristallinium ovillense (Cramer & Diez) Martin & Dean 1981 which is now recognized as having been validly published

> RETISPHAERIDIUM by Vanguerstaine 2002 p 272

- Fombella 1976 (pl. 3, fig. 15) Early Tremadocian, N. Spain
Ribecai & Vanguerstaine 1993 : Late Cambrian Belgium
(pl. 1, fig. 5) Algerian Sahara.
- Vecoli 1996 (p. 24, pl. 3, fig. 5) : latest Cambrian - Early Tremadoc,
Fombella et al. 1993 (p. 230 pl. 2, fig. 2) Middle Cambrian -
Early Tremadoc Northwest Spain
- (aff.) Volkova 1982 : Late Cambrian, Estonia
- Chavidel-Syooki, 1997 (pl. 3, fig. 8) : Middle/Late Cambrian Southern Iran
- Freyer Hoth & Sehnert 1994 : Late Cambrian/Tremadoc Germany
- Moczydlowska 1998 (p 58-60 figure 24B) : Middle-early Late Cambrian
Upper Silesia Poland
- Welsch 1984a : Middle Cambrian, N. Norway
- Vecoli et al. 1999 : Late Cambrian southern Tunisia
- Tawadros et al. 2001 : Late Cambrian Sirte Basin central Libya
- Samvelsson, Vecoli & Berer 2001 : reworked in Ashgill S. Baltic Sea
- Vecoli 1999 : Late Cambrian - early Tremadoc, Algeria & Tunisia.
- Prasad & Asher 2001 : Middle Cambrian - Late Ordovician
(p 82, pl. 23, figs. 10-12) Utah Pradesh/Bihar, northern India

older? see Vanguerstaine &
Van Looy 1973

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Vecoli & Le Hérisse 2004 : latest Cambrian - earliest Tremadoc
Northern Gondwana

Palacios, Apalategui & Eguiluz 2004 abstract: late Middle Cambrian
Osso-Moreno Zone SW Iberia

Aráoz & Vergel 2006 (Figure 5.c) : Late Cambrian
Quebrada de Moya, Eastern Cordillera, Argentina

Mens, Bergström & Lendzion 1990 : Middle Cambrian
SW & Central East European Platform USSR

Prasad & Asher 2001 : Middle Cambrian - late Late Cambrian (Tremadoc
(pl. 23, figs 10-12) (+ Ashgill / Early Llandovery)

Dean et al 1997 (Figure 8p) : Middle / Late Cambrian
Sanga Basin, northern India
Penbegli-Tut Inlier, southeastern Turkey

Palacios, Jensen Barr & White 2009 :
Late Cambrian (early Furongian)
SE Cape Breton Island, Nova Scotia, England

Shavidel-Syooki 2006 abstract 3:

within Middle Cambrian - early Tremadoc

High Zagros Mt. Ranges southern Iran

Aráoz 2008 abstract: Early - Late Tremadoc

Sierra de Zenta Cordillera Oriental NW Argentina

Prasad, Asher & Bergöhai 2010 (pl. 2, fig. 16)

late Early - late Middle / early Late Cambrian

Bikaner - Nagaur Basin, Rajasthan, India

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Palacios 2010 abstract. Middle Cambrian
(Cesaraugustian - Languedocian stages)
Cantabrian Mountains northern Spain

Aráoz 2009 (p. 72-73, Fig. 10-F) Tremadoc
Sierra de Zenta Cordillera Oriental, Argentina