

BIBLIOGRAPHY AND TAXA OF CALCAREOUS NANNOPLANKTON – 37*Compiled by Mário Cachão*

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<i>Alisphaera extenta</i> Kleijne et al. in Kleijne et al. 2002, pp. 587-589, figs. 25-29.	A6273
<i>Alisphaera gaudii</i> Kleijne et al. . in Kleijne et al. 2002, pp. 589, 592, figs. 30, 32.	A6273
<i>Alisphaera pinnigera</i> Kleijne et al. . in Kleijne et al. 2002, p. 594, figs. 40, 41-45.	A6273
<i>Alisphaera quadrilatera</i> Kleijne et al. . in Kleijne et al. 2002, pp. 592, 594, figs 38-39.	A6273
<i>Alisphaera uncinata</i> Kleijne et al. . in Kleijne et al. 2002, p. 594, fig. 47.	A6273
<i>Calcidiscus leptoporus</i> subsp. <i>quadriperforatus</i> (Kamptner) Geisen et al., in Geisen et al. 2002, pp. 541, 543.	A6235
<i>Coccolithus pelagicus</i> subsp. <i>braarudii</i> (Gaarder) Geisen et al. in Geisen et al. 2002, p. 539.	A6235

♦

In the last few years, an increasing number of papers have discussed the possible combinations involved in coccolithophorid life cycles as seen in wild material. However, Cros et al. (2000) were the first to introduce an informal system for citing these life cycle stages using HO and HE to denote the stage bearing holococcoliths and heterococcoliths respectively. Since then the informal system has been used by several authors. For instance, Cortes and Böllmann (2002) (A6197) suggested that the two holococcolithophorids, *Calyptrolithina wettsteinii* and *Calyptrolithophora hasleana*, be regarded as synonyms of *Coronosphaera mediterranea*. They referred to them in the text as *Coronosphaera mediterranea* HO wettsteinii and *Coronosphaera mediterranea* HO hasleana. It should be noted that these types of combinations have no taxonomic inference, and if it was intended then they would be invalid on two accounts: 1) HO is not a valid taxonomic subunit, and 2) the full basionyms are often not cited. The ICBN does not usually allow separate names for different life cycle stages - names of fungi with a pleomorphic life cycle being the only exception.

Comments: Richard Jordan & Shirley Van Heck.