

3. *Acadialithus valentinei* Howe (2017)

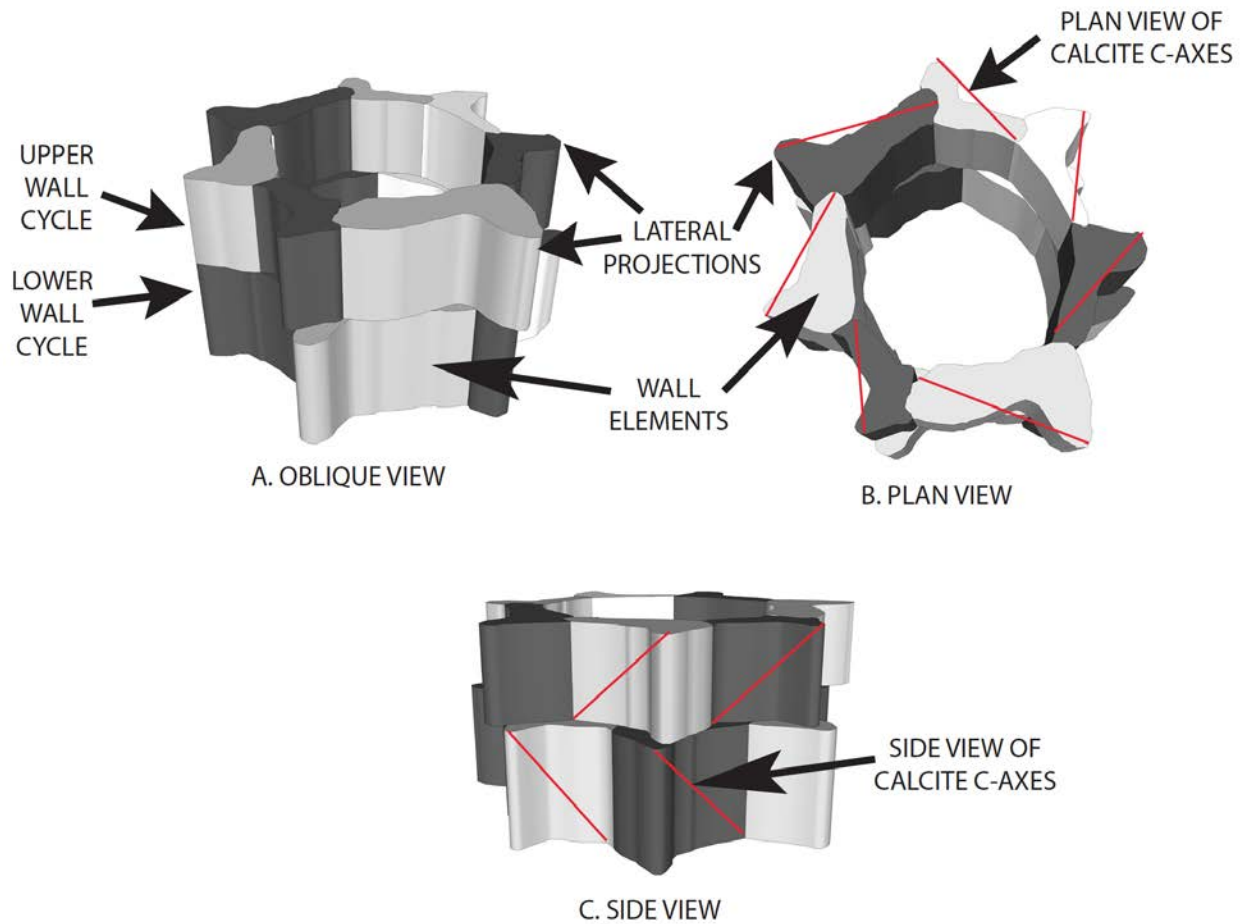
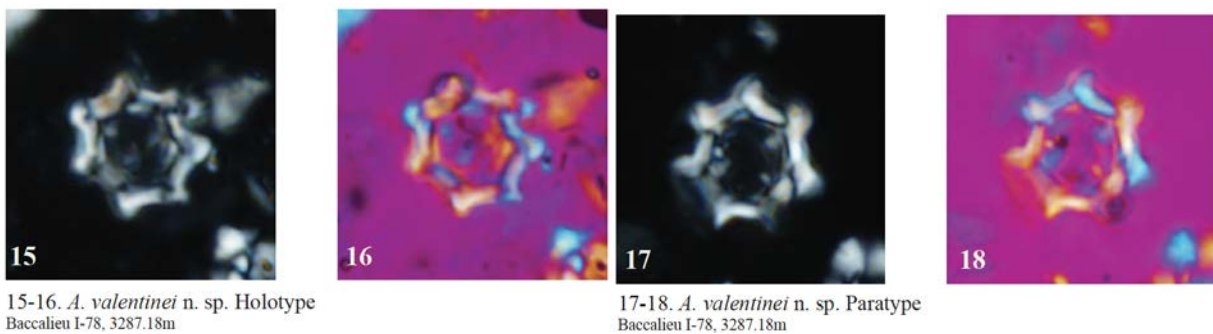
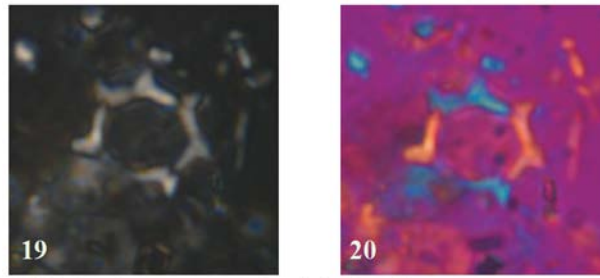


Fig. 1. Schematic model of *Acadialithus valentinei* n. gen, n. sp. to illustrate the authors understanding of the structure of the genus. A. Oblique view, showing the upper and lower cycles of wall elements and the lateral projections present on each wall cycle element. B. Plan view, showing the interpreted orientation of the calcite c-axes of the elements in the upper wall cycle. C. Side view, showing the interpreted orientation of the calcite c-axes of the elements in the upper and lower wall cycles.

Fig. 1

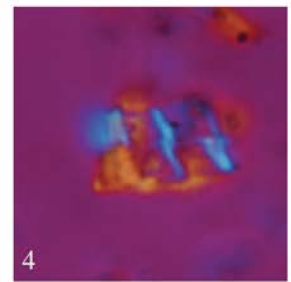
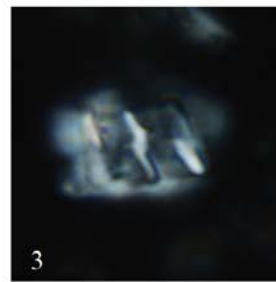
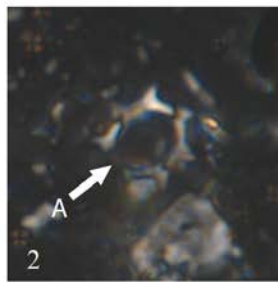
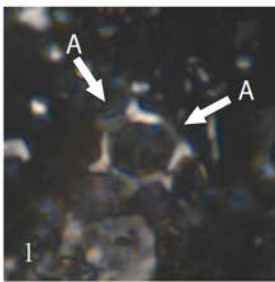




19-20. *A. valentinei* n. sp. Isolated single cycle
Baccalieu I-78, 3287.18m

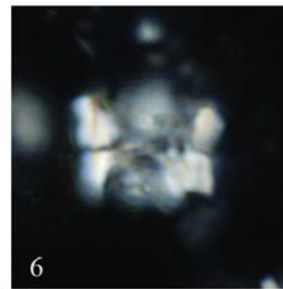
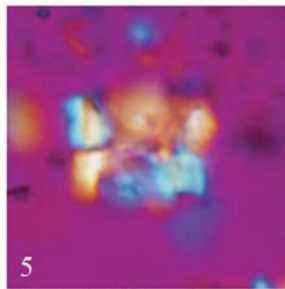
10µm

Pl. 1, figs 15–20



1-2. *A. valentinei* n. sp. Isolated single cycle (same specimen as
Pl. 1, figs 19-20). Dark elements labelled "A". Baccalieu I-78, 3287.18m

3-4. *Acadialithus valentinei* n. sp. side view
Baccalieu I-78, 3287.18m



5-6. *Acadialithus valentinei* n. sp. side view
Baccalieu I-78, 3287.18m

10µm

Pl. 2, figs 1–6

Brachiolithus? sp. "septagonal form" Valentine (1980), plate 2, fig. 1

Genus et species indet. Sinnyovsky (2005), plate 2, fig 29

Derivation of name: In honor of nannofossil specialist Page C. Valentine, United States Geological Survey, California, USA, who figured specimens of *Acadialithus dennei* n. sp. and *A. valentinei* in Valentine (1980).

Diagnosis: A species of *Acadialithus* with seven elements in each cycle of the wall.

Holotype: Pl. 1, figs 15–16.

Paratype: Pl. 1, figs 17–18.

Type Level: Upper Tithonian.

Type Locality: Baccalieu I-78 exploration well, 3287.18m, offshore eastern Newfoundland,

Canada.

Dimensions of holotype: Maximum diameter (including lateral projections) = $8.0\mu\text{m}$.
Diameter of the central opening = $4.4\mu\text{m}$. Width of the wall = $1.8\mu\text{m}$.

Remarks: *Acadialithus valentinei* has seven elements in each cycle of the wall rather than the six elements of *A. dennei* n. sp.

Howe, R.W., 2017. *Acadialithus*, a new nannofossil genus from offshore Eastern Newfoundland, Canada. *Journal of Nannoplankton Research*, **37(1)**: 61–66.