

BGS Zone 20 (=UKB16 of Hart et al., 1989)

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Base: Inception of *Gavelinella usakensis*.

Top: Inception of *Gavelinella monterelensis*.

Biomarkers:

- *Eouvigerina gracilis* and *Reussella kelleri* extinction at the base of the foraminiferal zone, immediately below the Arundel Sponge Bed and lateral equivalents.
- '*Bolivinooides culverensis* becomes common with the inception of *Gavelinella usakensis* immediately below the Arundel Sponge Bed.
- *Gavelinella cristata* becomes extinct immediately above the Arundel Sponge Bed.
- Rare *Gavelinella* cf. *voltziana* appears for the first time above the Lancing Flint. *Gavelinella trochus* is also present, although the exact stratigraphical position of its inception is not fully known due to rarity of the species in the earliest part of its range.
- *Gavelinella lorneiana* generally disappears from the record, temporarily, immediately above the Lancing Flint and lateral equivalents (Lazarus Effect). It reappears in the middle part of the foraminiferal zone (middle *G. quadrata* macrofaunal zone) at the Cotes Bottom Flint.
- *Rugoglobigerina pilula*, *Stensioeina exsculpta gracilis* and common *Gavelinella stelligera* disappear from the record at the top of the zone (at the Farlington Marls and lateral equivalents).

Subzones:

20i. (un-named subzone): From the base of the zone to the inception of *Eouvigerina galeata*.

20ii. *Eouvigerina galeata* Subzone: Index species has its inception between Pepper Box Marls and Lancing Flint

20iii. *Pullenia quaternaria* Subzone: Marked by the inception of the index species at Whitecliff Marl (upper *G. quadrata* Zone) *Gavelinella clementiana* and *Spiroplectamina baudouiniana* have their inception at the base of the subzone, but are generally rare.

20iv. *Bolivinooides decoratus* Subzone: Defined by the extinction of common *B. culverensis* and the inception of common *B. decoratus* at Scratchell's Marl 1 in the uppermost *G. quadrata* macrofaunal zone.

Macrofaunal correlation: *G. quadrata* Zone (excluding the lowermost part).

Age: Campanian

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