

# BGS Zone 19 (=upper UKB15 of Hart et al., 1989)

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**Base:** Inception of *Bolivinooides culverensis*.

**Top:** Inception of *Gavelinella usakensis*.

## Biomarkers:

- Inception of very rare *Globotruncana arca* at the base of the foraminiferal zone.
- Extinction of *Globigerinelloides rowei* in the basal *O. pilula* macrofaunal zone.
- Extinction of *Stensioeina exsculpta exsculpta* in the earliest *O. pilula* macrofaunal zone.
- *Stensioeina pommerana* inception in the mid *O. pilula* macrofaunal zone (transitional specimens closely resembling this species occur in the late Santonian and early Campanian).
- *Eouvigerina gracilis* and *Reussella kelleri* extinction immediately below the Arundel Sponge Bed and lateral equivalents.

**Macrofaunal correlation:** Lowest *O. pilula* Zone to lowermost *G. quadrata* Zone.

**Age:** Campanian

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