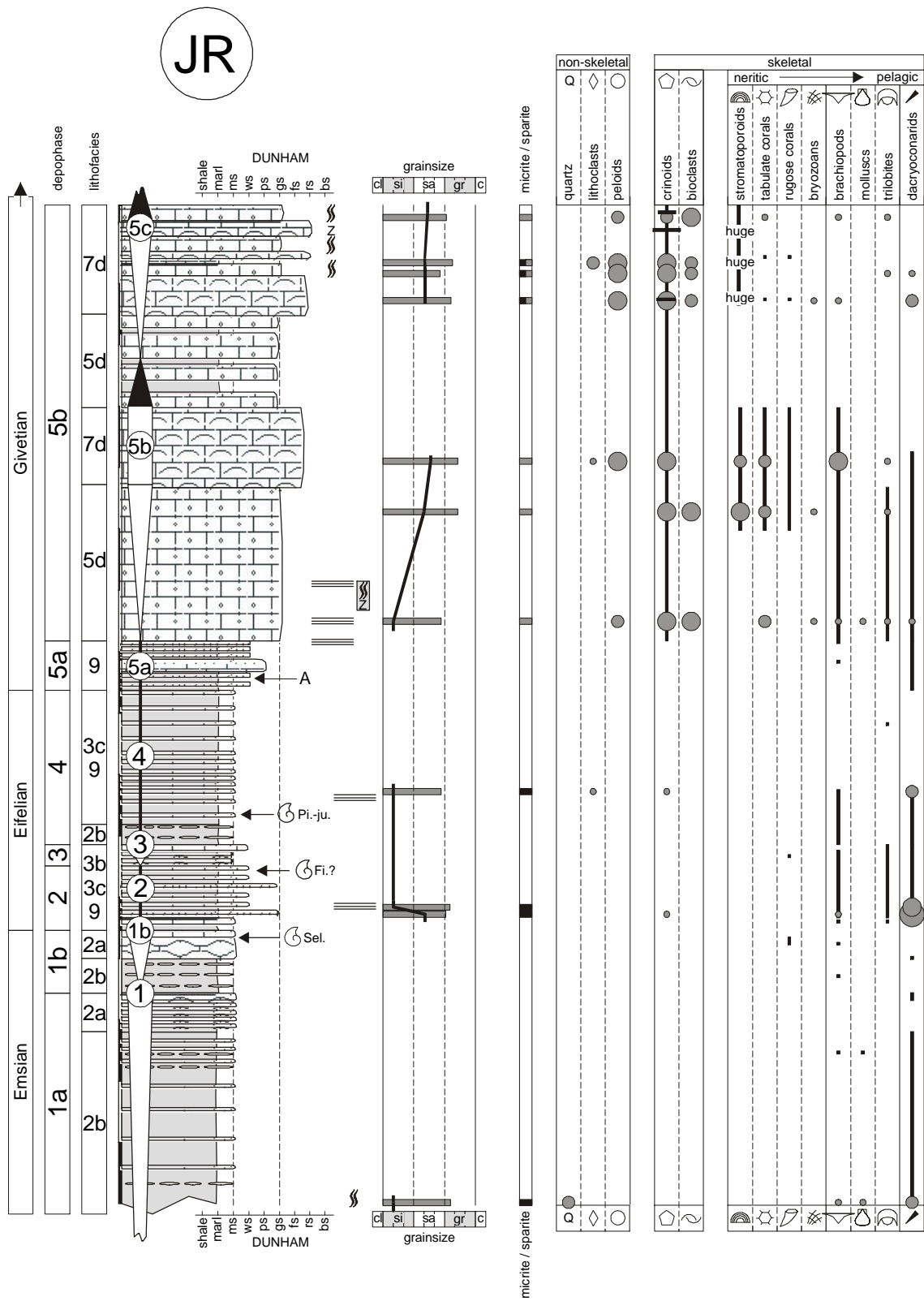
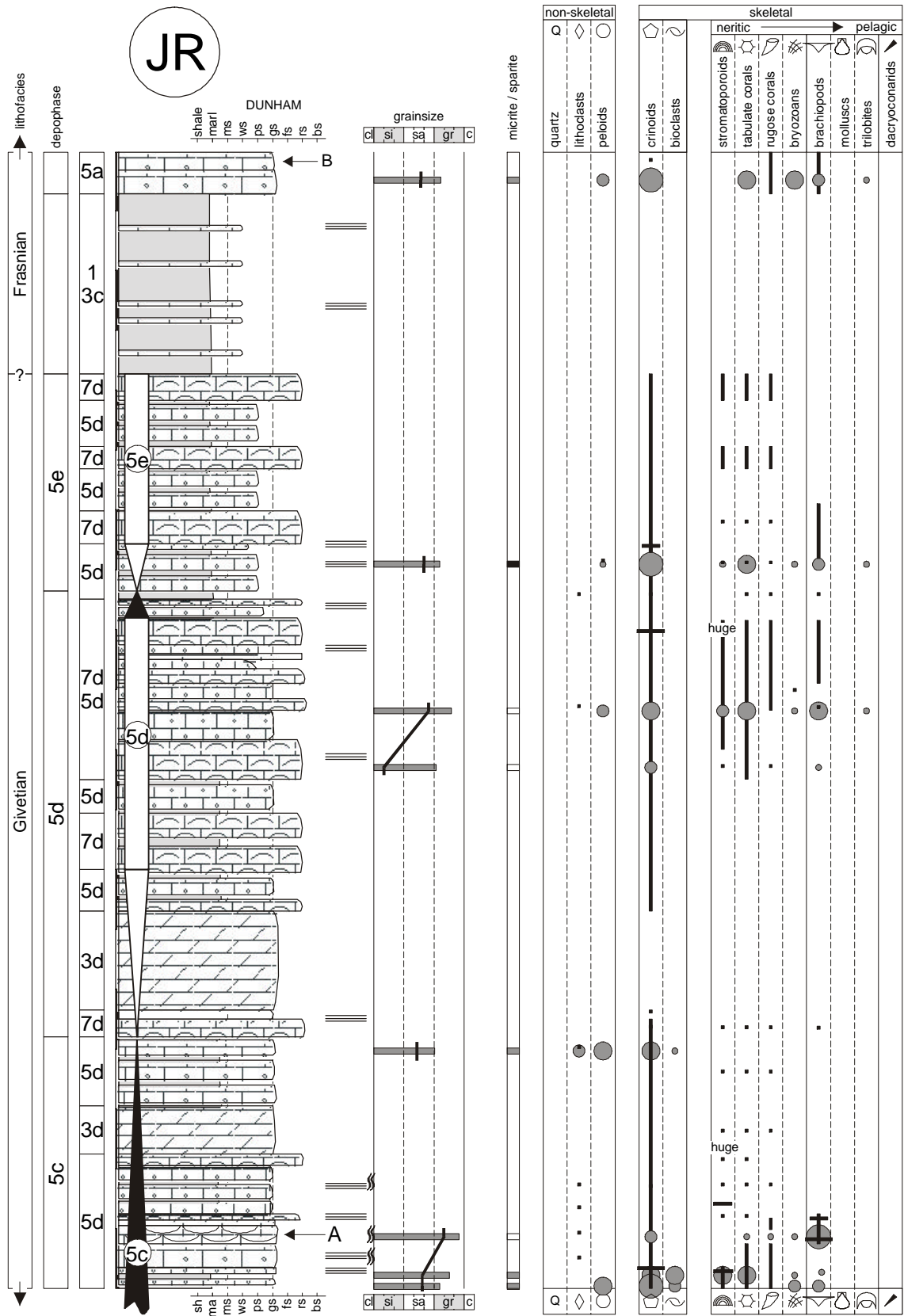


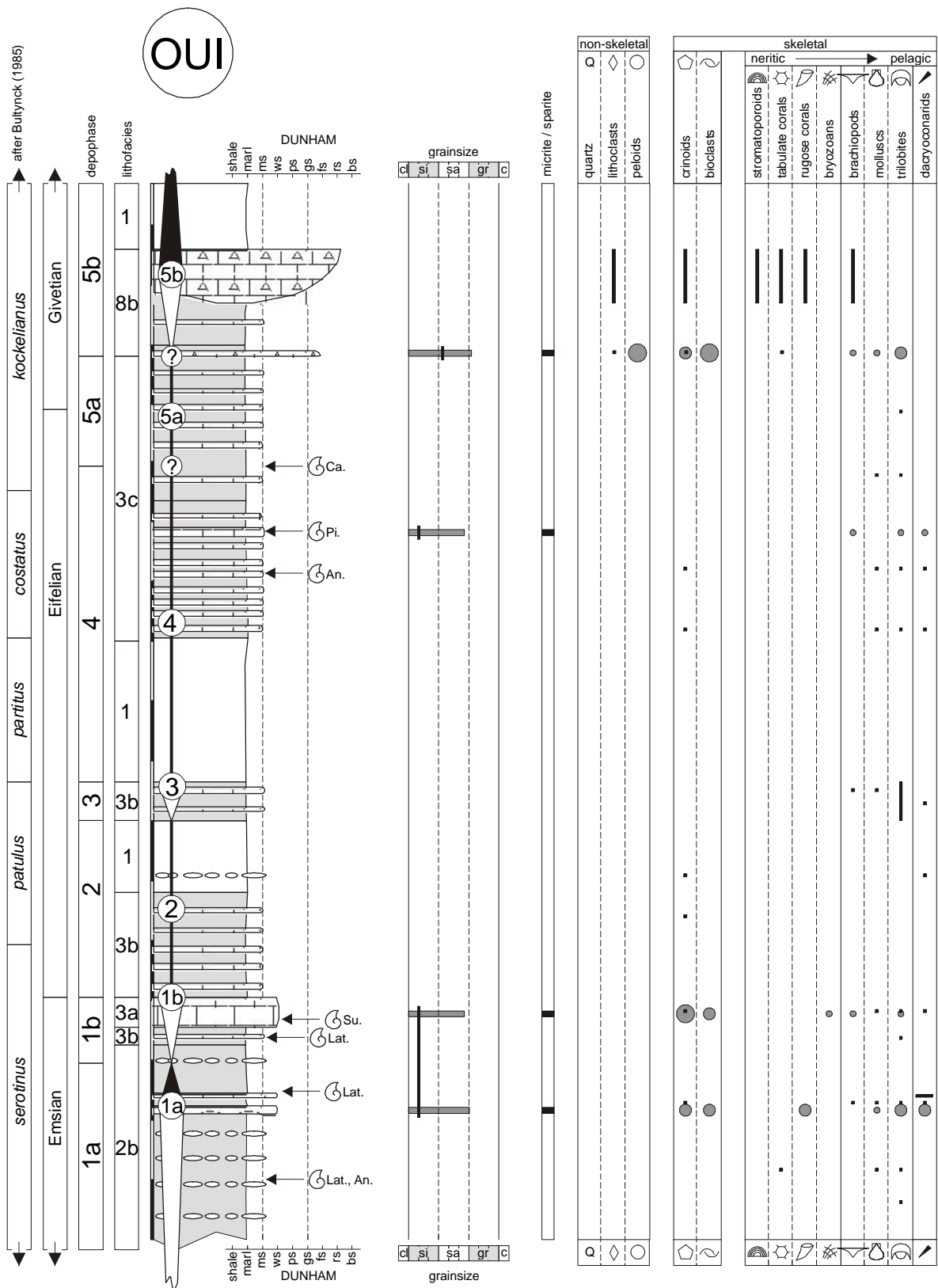
APPENDIX



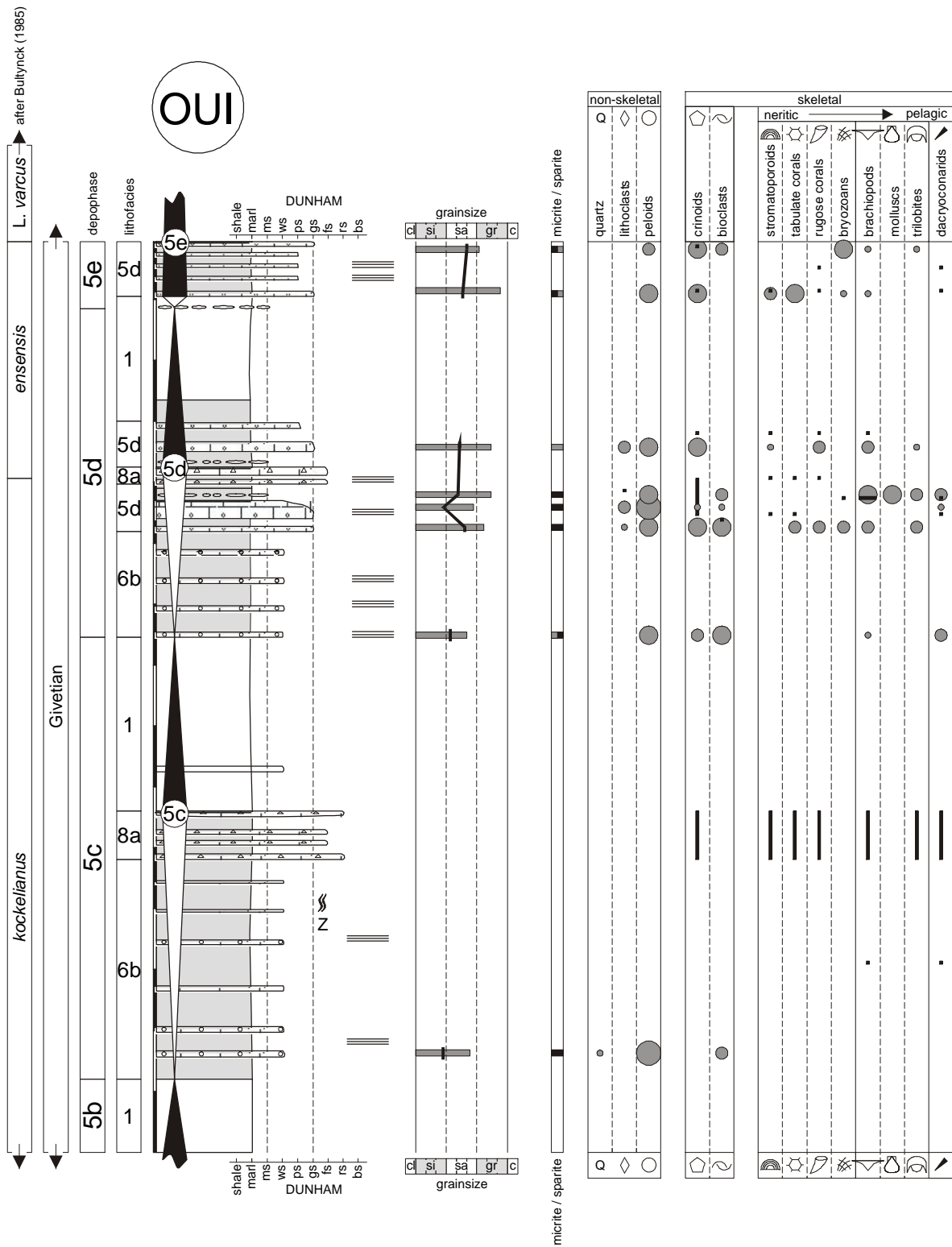
App. 1: Lower part of the Jebel Rheris section. A: conodont sample: Lower *varcus* Zone, Sel.: *Sellanarcestes*, Fi.: *Fidelites*, Pi. ju.: *Pinacites jugleri*, for signatures see App. 7.



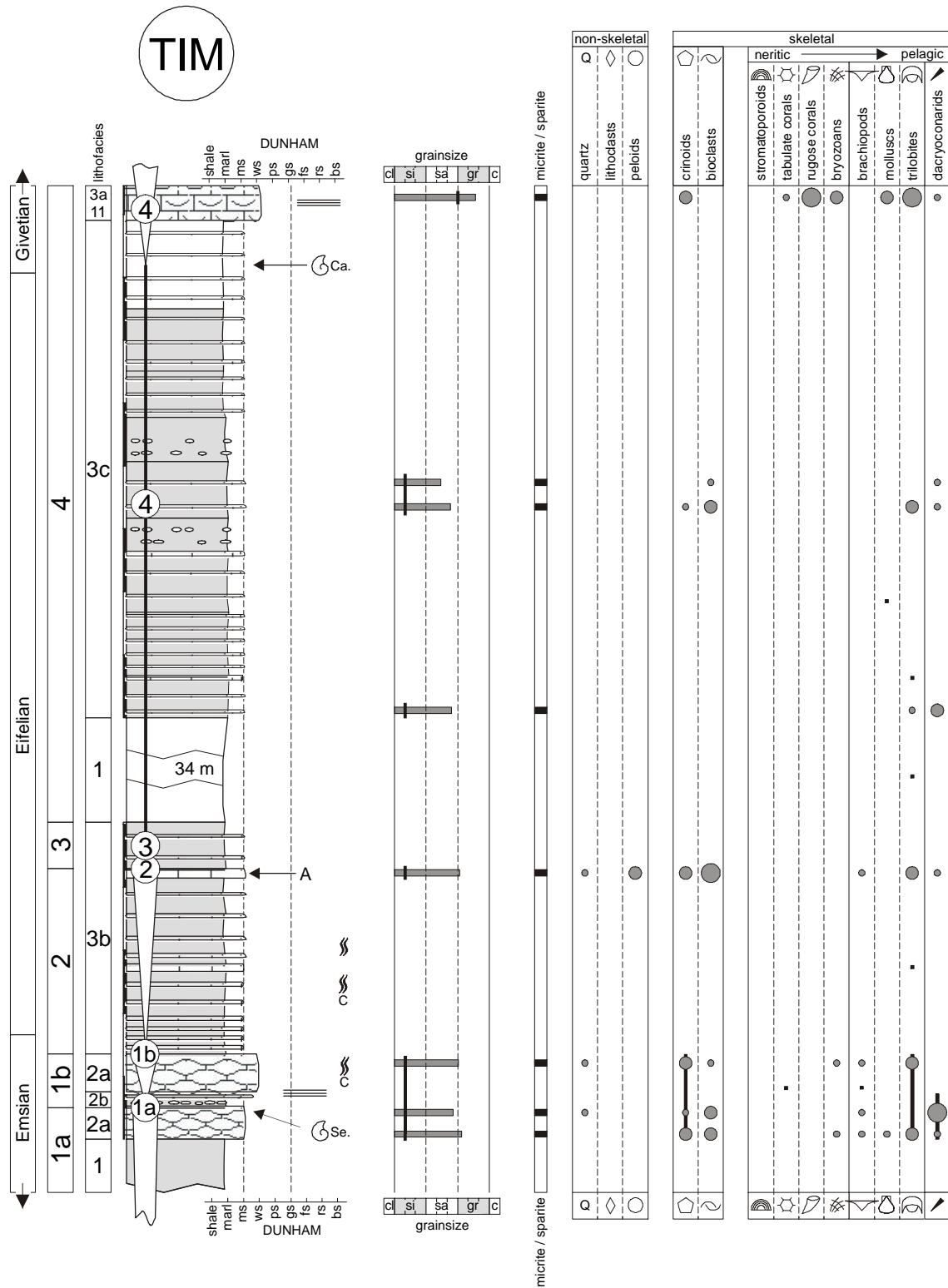
App. 2: Upper part of the Jebel Rheris section. A: conspicuous brachiopod coquina, B: conodont sample: Lower varcus - Lower asymmetricus Zone, for signatures see App. 7



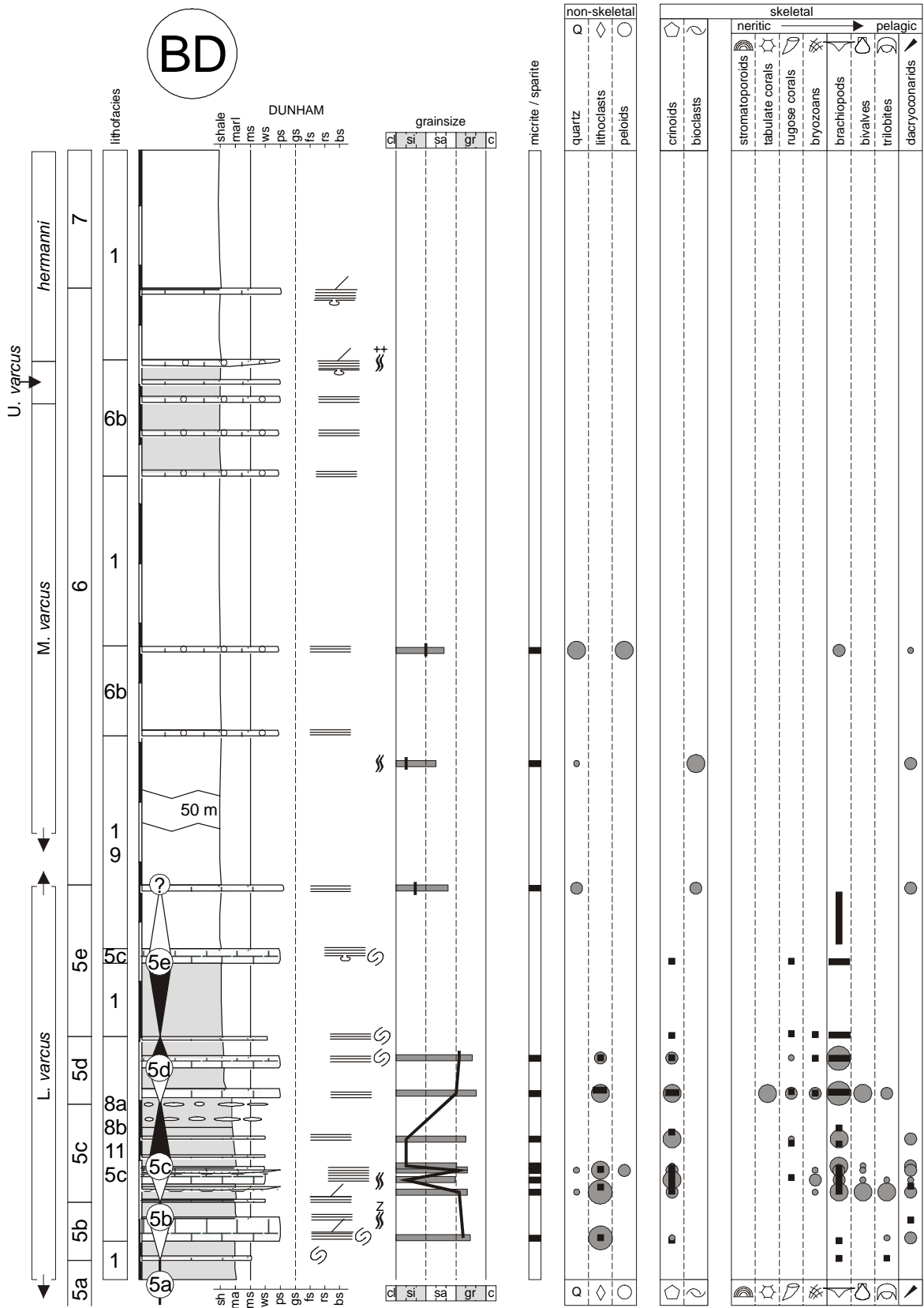
App. 3: Lower part of the Ouhlane section with conodont zonation according to Bultynck (1985), correlation with stage boundaries after own investigations. Lat.: *Latanarcestes*, An.: *Anarcestes*, Su.: *Subanarcestes*, Pi.: *Pinacites*, Ca.: *Cabrieroceras*, for signatures see App. 7.



App. 4: Upper part of the Ouhlane section with conodont zonation after Bultynck (1985), Devonian stages correspond to own investigations, for signatures see App. 7.

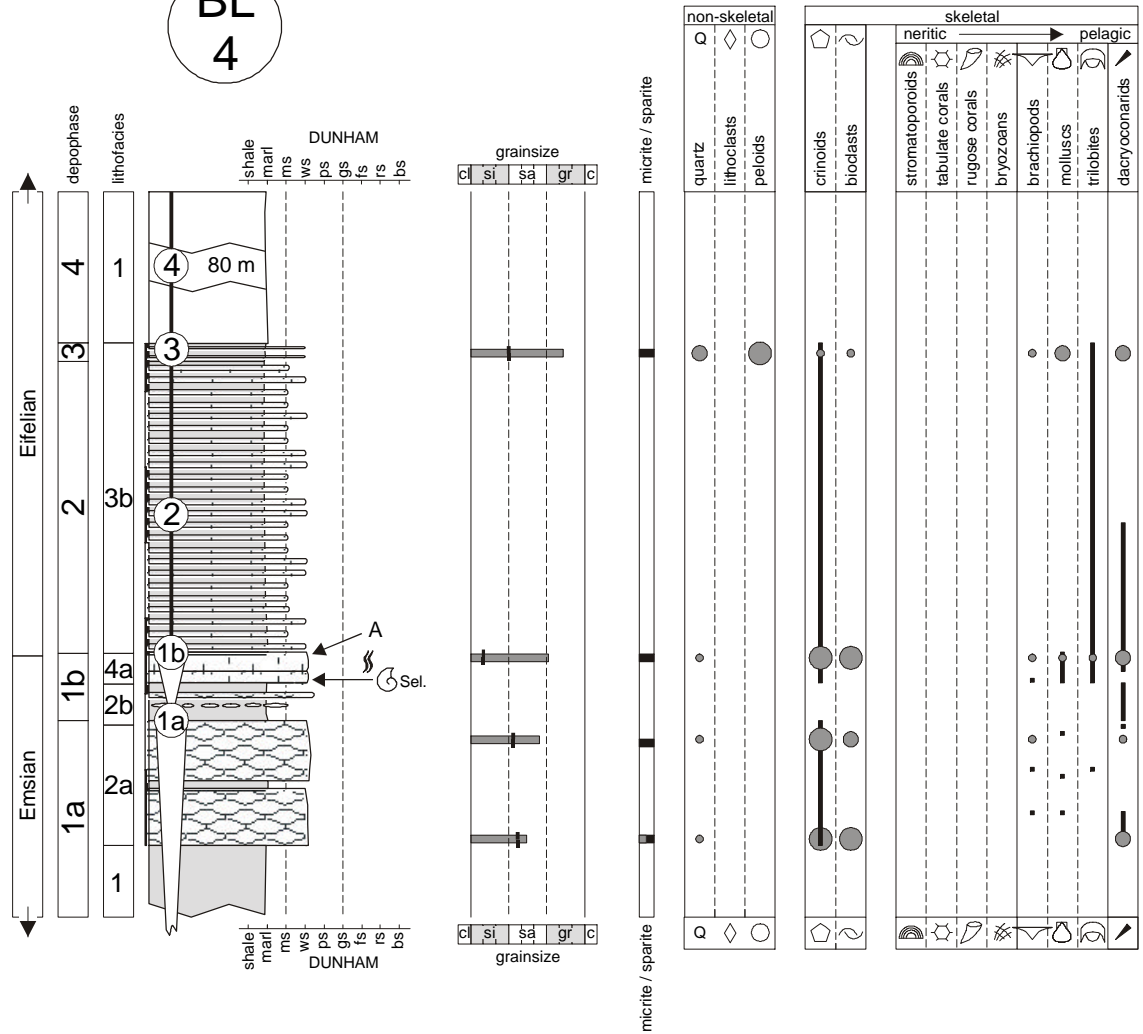


App. 5: Stratigraphic section at Timerzit. A: cephalopod beds, Sel.: *Sellanarcestes*, Ca.: *Cabrieroceeras*, for signatures see App. 7.



App. 6: Givetian part of the Bou Dib section. Conodont zonation after Bultynck & Jacobs (1981), for signatures see App. 7.

BL 4



signatures:

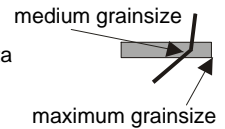
- fine sandstone
- siltstone
- dolostone
- peloid limestone
- biostromal limestone
- crinoid limestone
- bioclast limestone
- limestone with cherts
- dacryoconarid limestone
- nodular limestone
- shale/marl with nodules

- cross bedding
- horizontal bedding
- convolute bedding
- groove casts
- flute casts
- load casts
- slumping
- bioturbation
- Z *Zoophycos*
- P *Planolites*
- F *Fucoides*

baselevel cycles



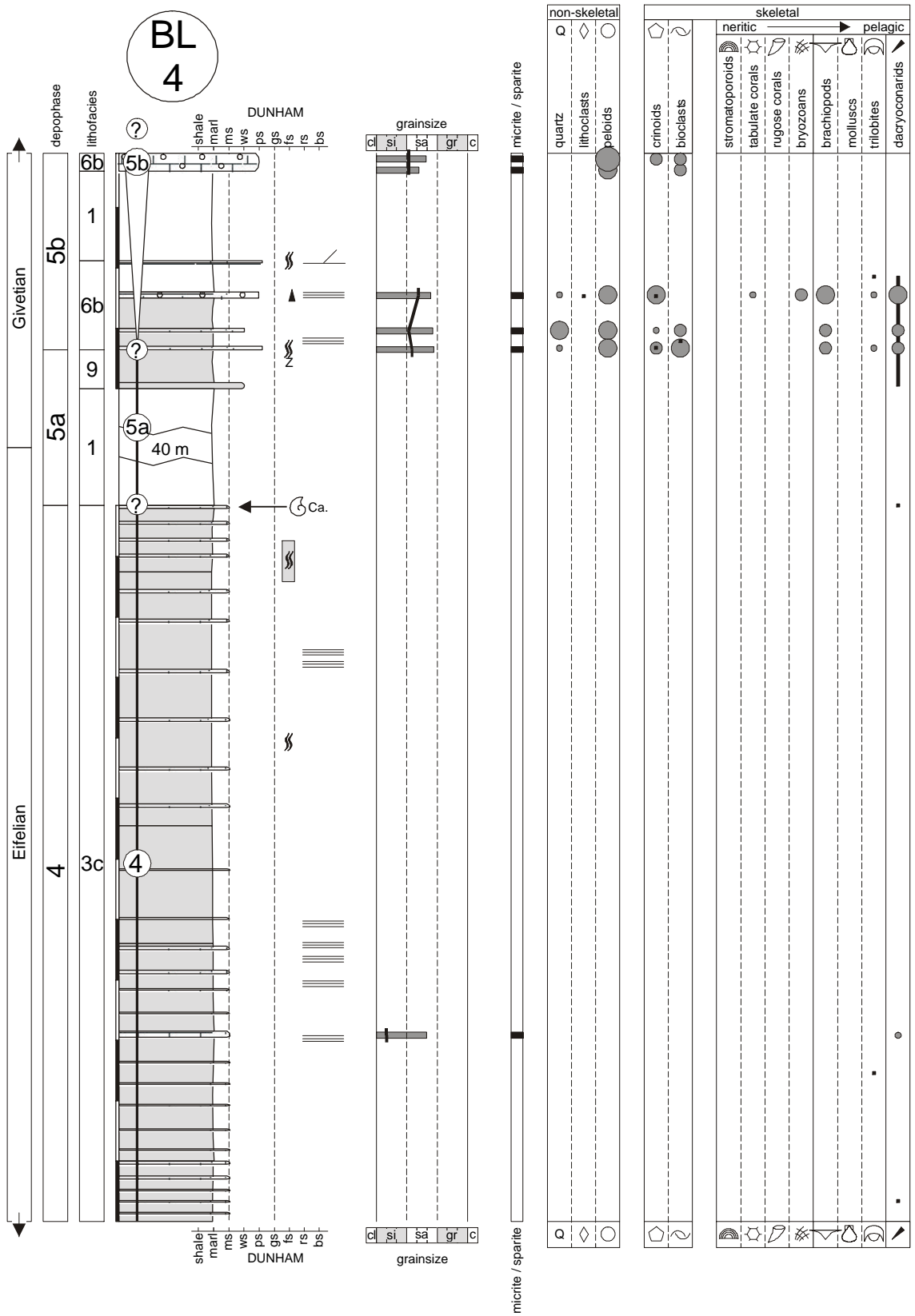
- field data
- thin section data
- micrite
- sparite



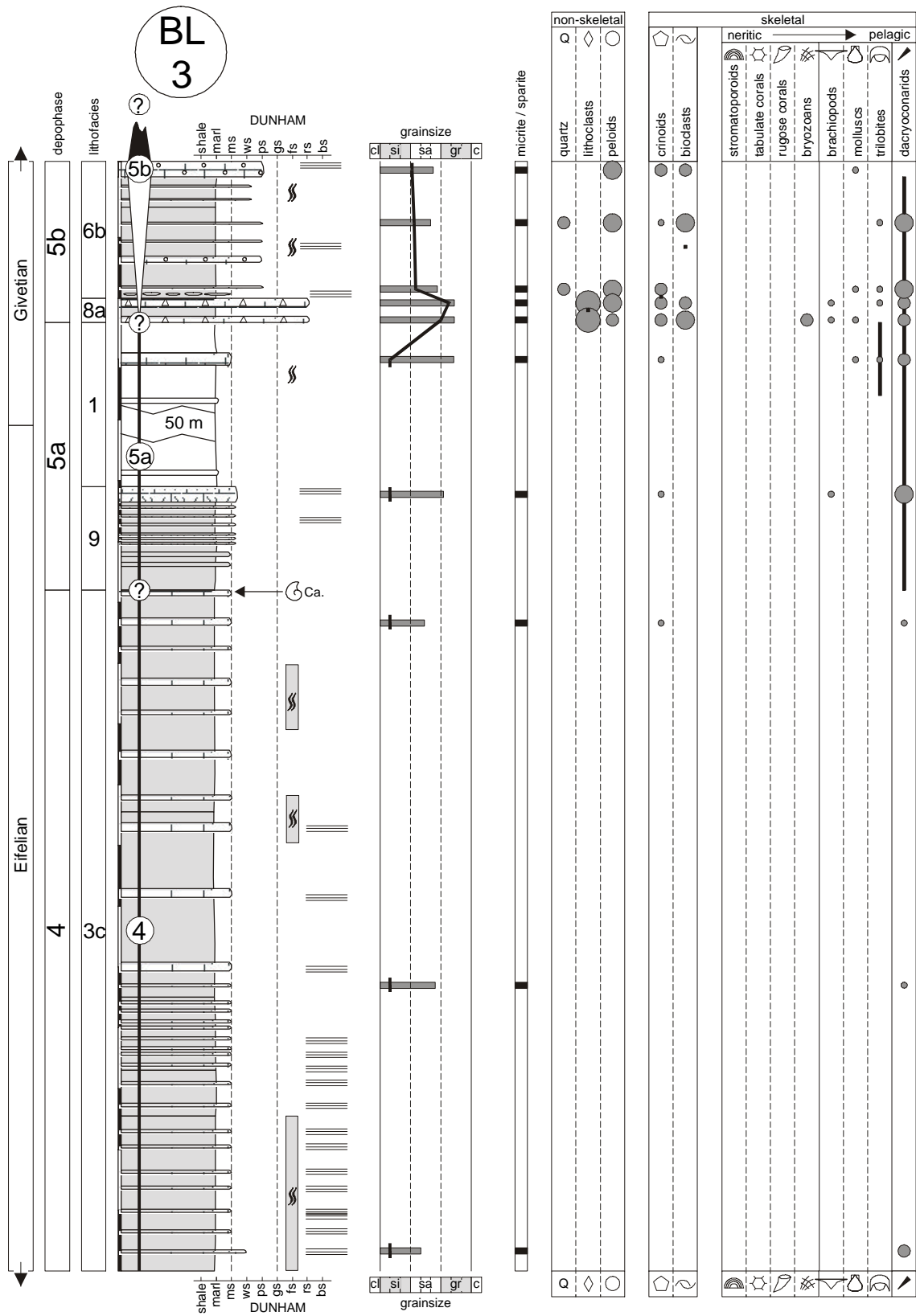
- ### particle abundance
- low
 - medium
 - high
 - rock-forming

- ### quartz abundance
- 1%
 - 2 - 3%
 - 3 - 5%
 - 5 - 10%
 - 10 - 20%
 - rock-forming

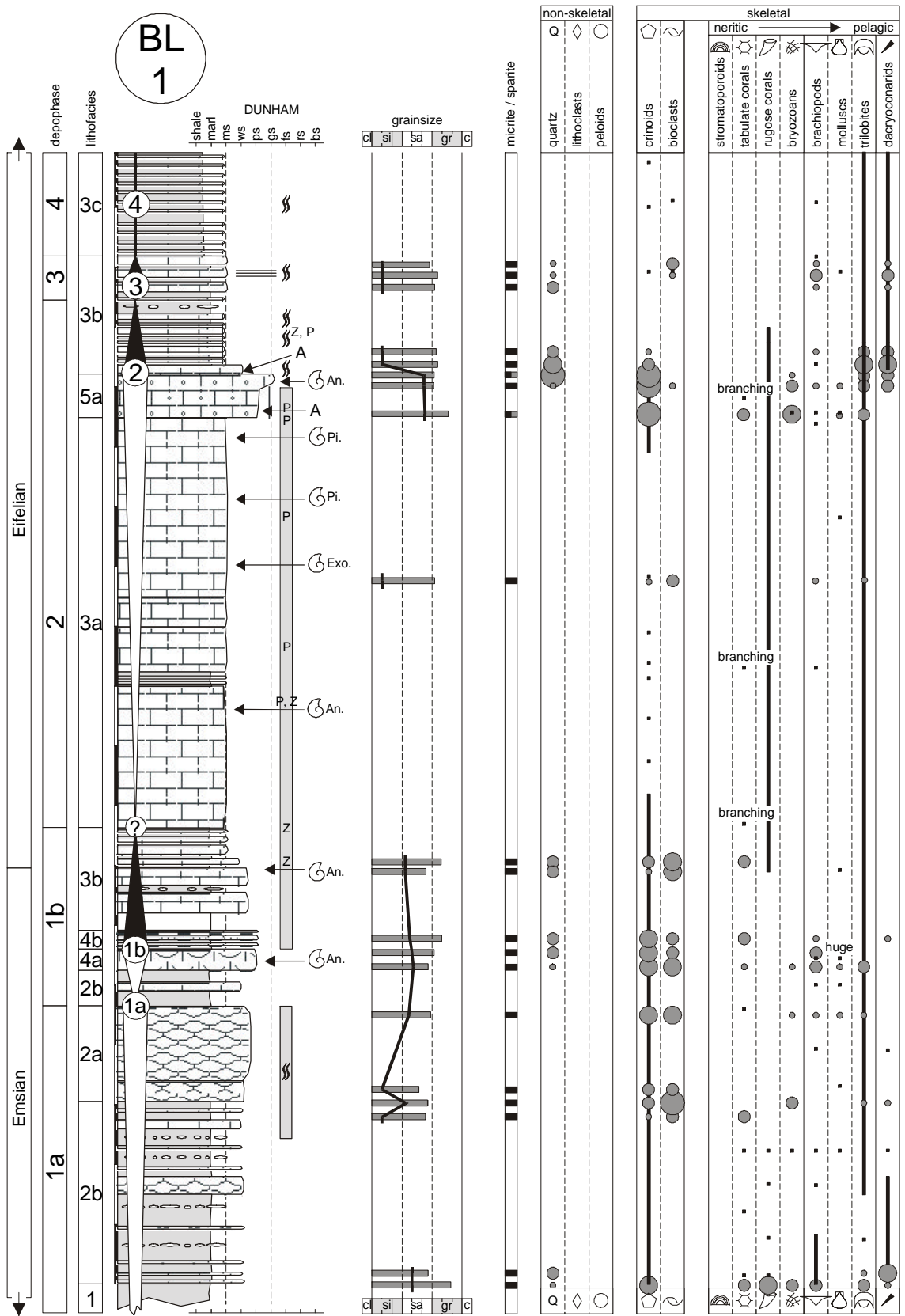
App. 7: Lower part of the Boulchral-4 section and signatures for stratigraphic sections. A: cephalopod beds, Sel.: *Sellanarcestes*



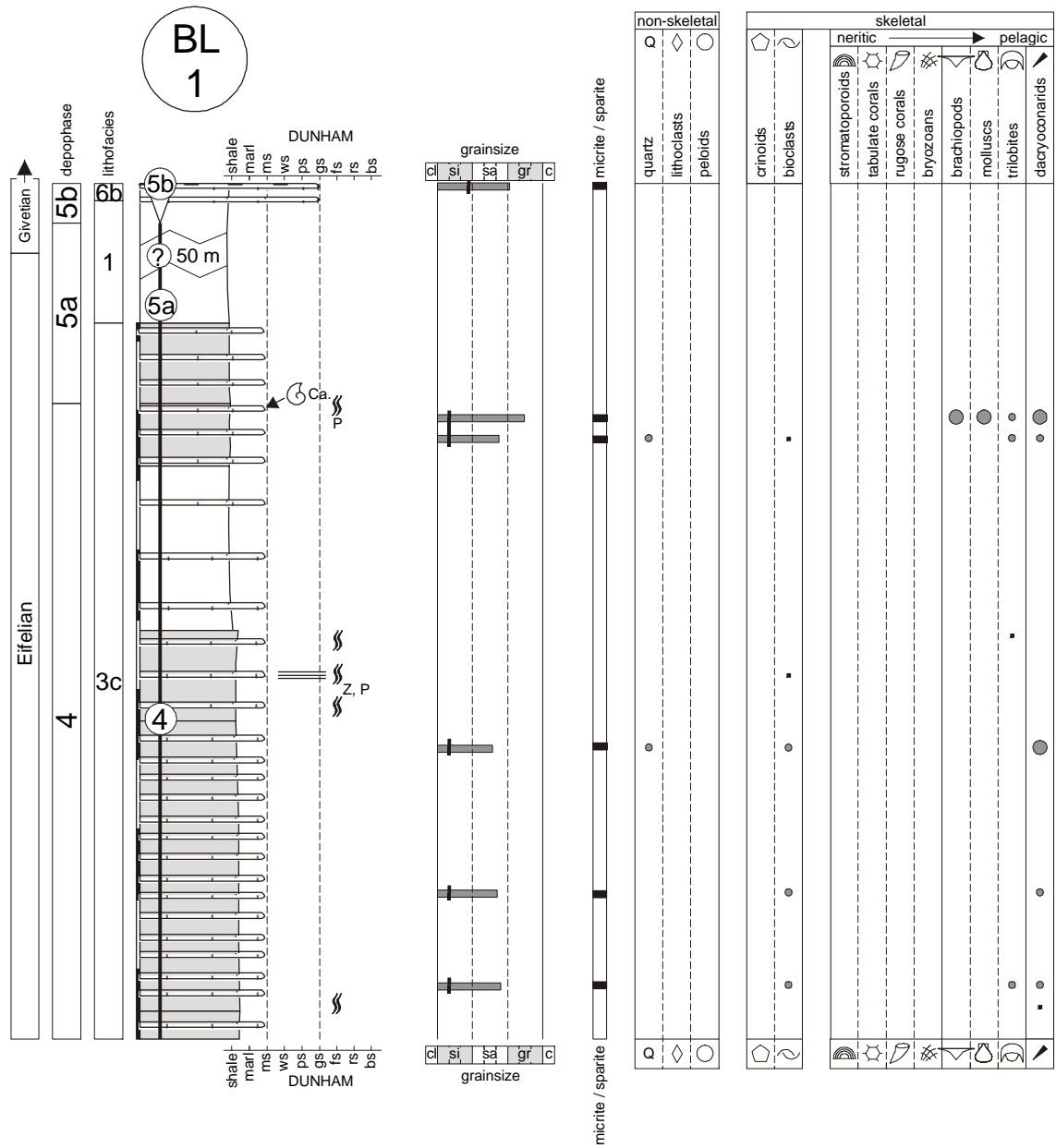
App. 8: Upper part of the Boulchral-4 section. Ca.: *Cabrieroceras*, for signatures see App. 7.



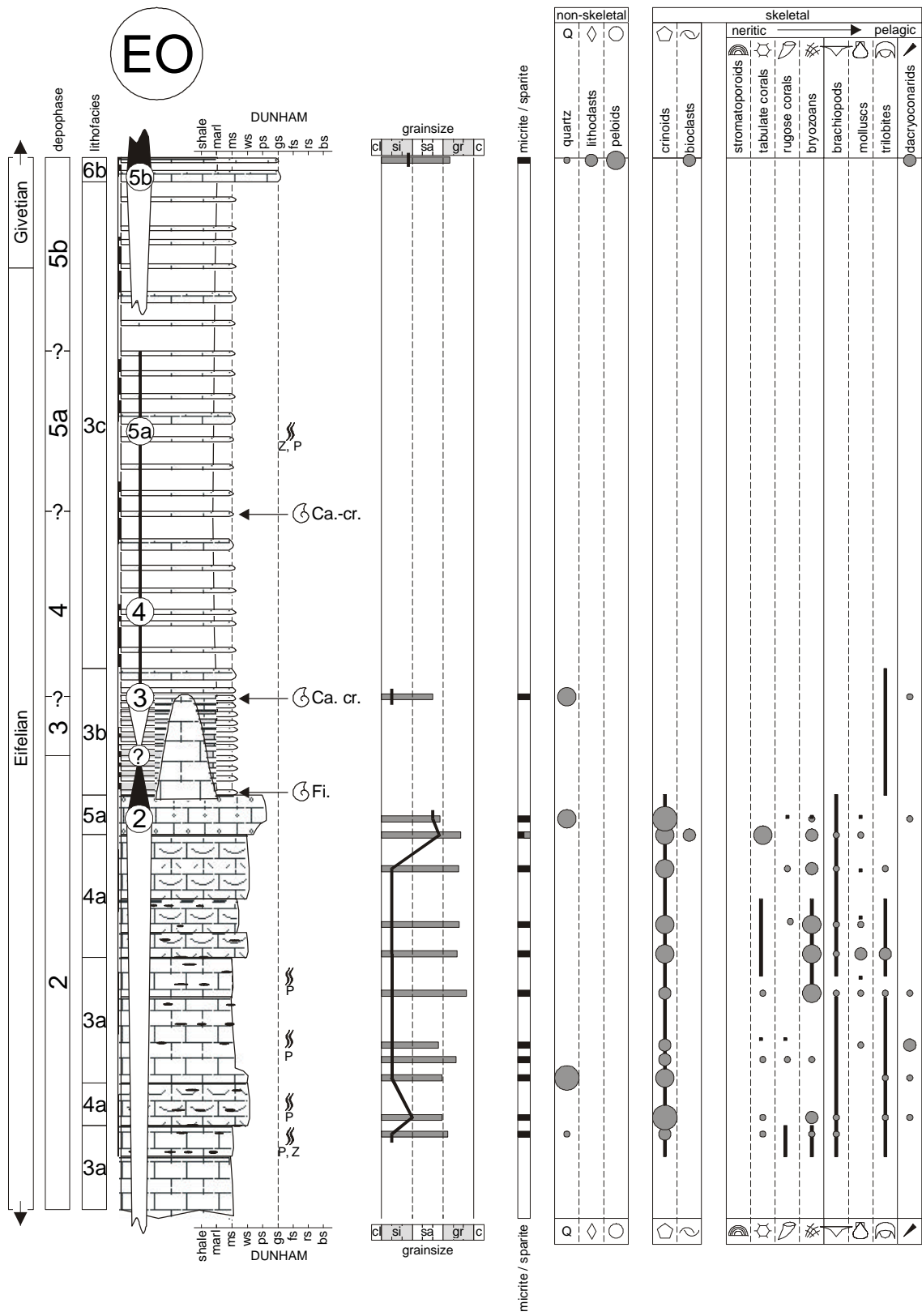
App. 10: Upper part of the Boulchral-3 section. Ca.: *Cabrieroeras*, for signatures see App. 7.



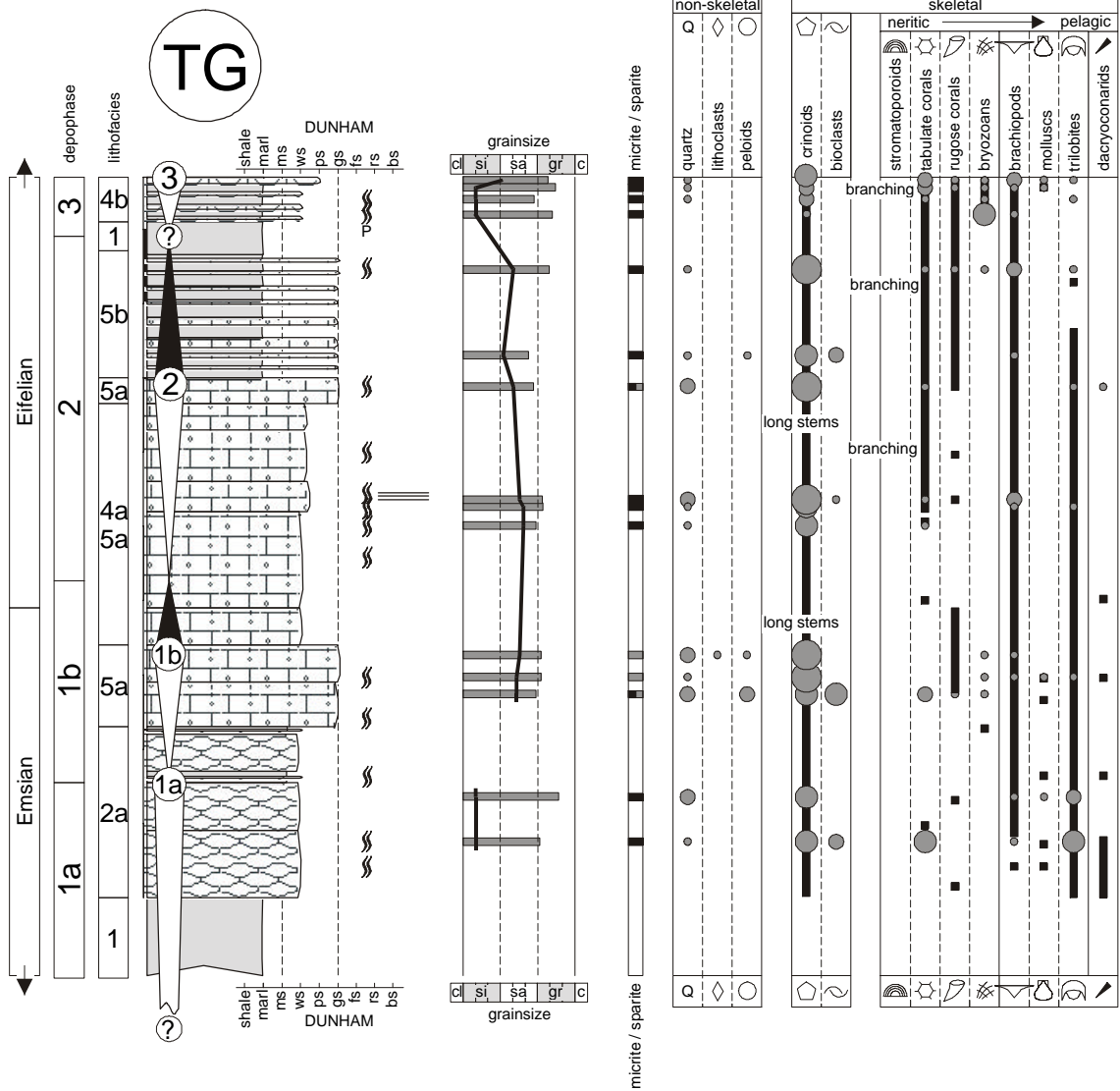
App. 11: Lower part of the Boulchral-1 section. A: conspicuous cephalopod bed, An.: *Anarcestes*, Exo.: *Exopinacites* Pi.: *Pinacites*, for signatures see App. 7.



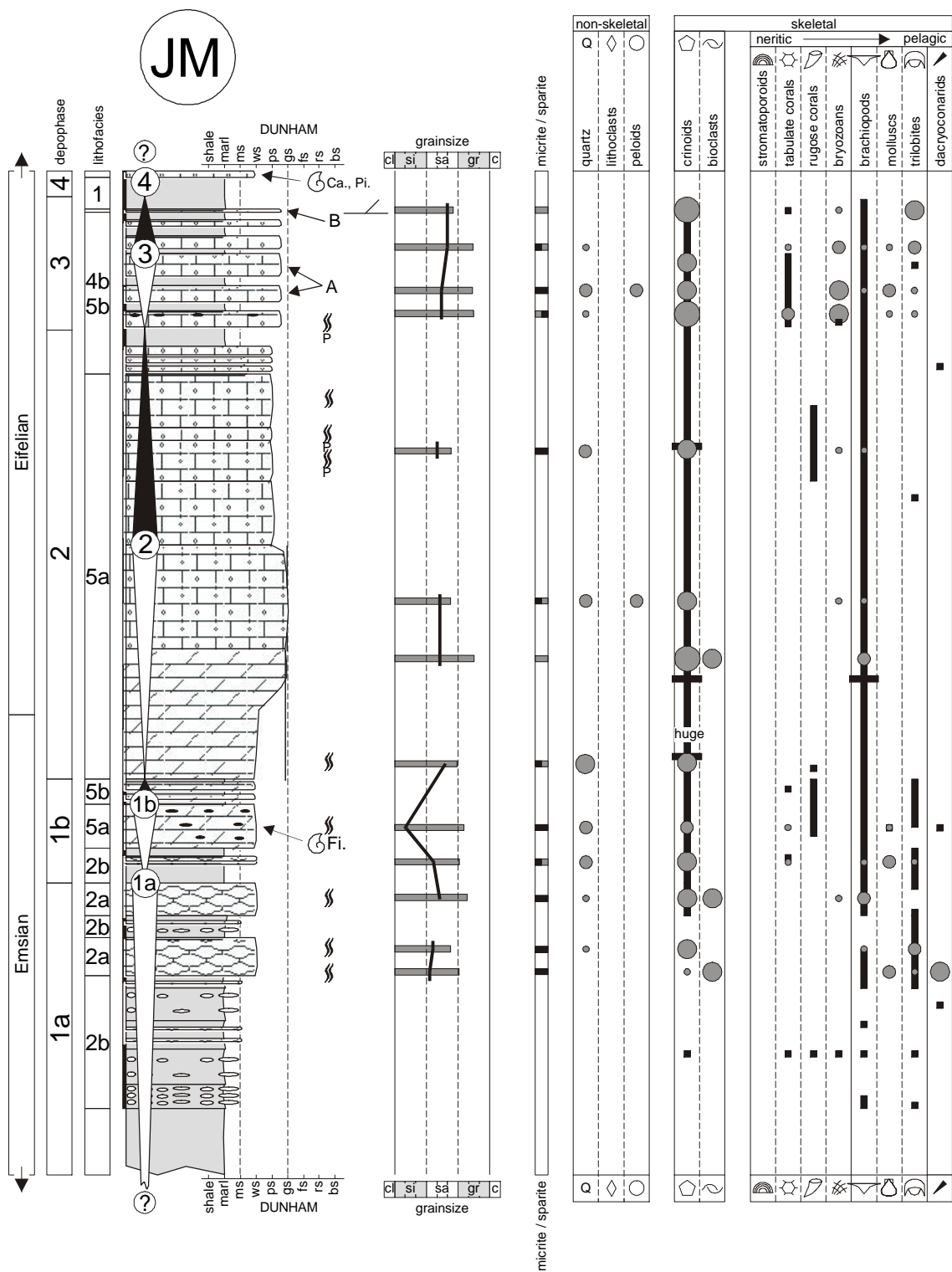
App. 12: Upper part of the Boulchral-1 section. Ca.: *Cabrieroceas*, for signatures see App. 7.



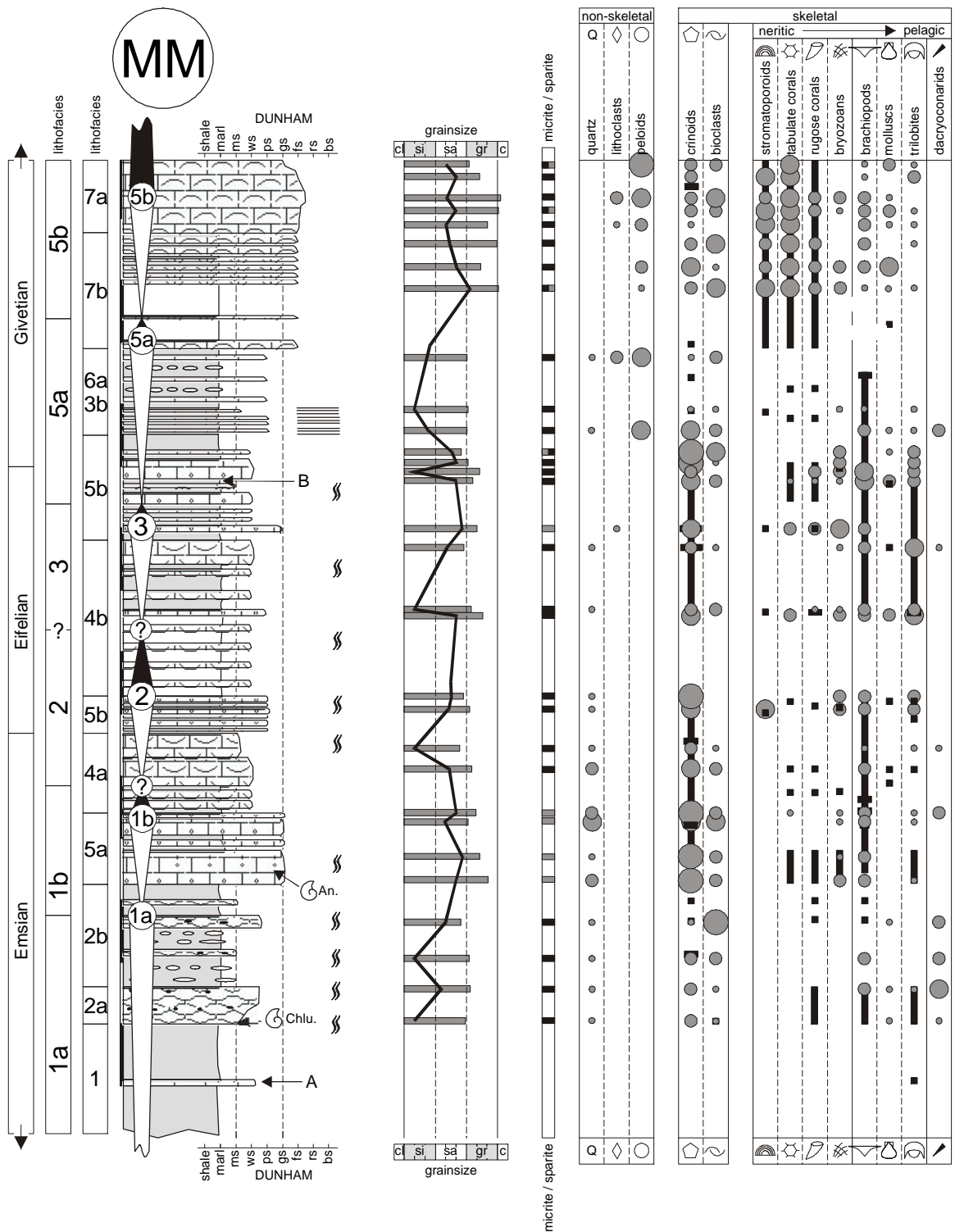
App. 13: Eifelian and lower Givetian part of the El Otfaal section after KAUFMANN (1998). Fi.: *Fidelites*, *Cabrierocheras crispiforme*, for signatures see App. 7.



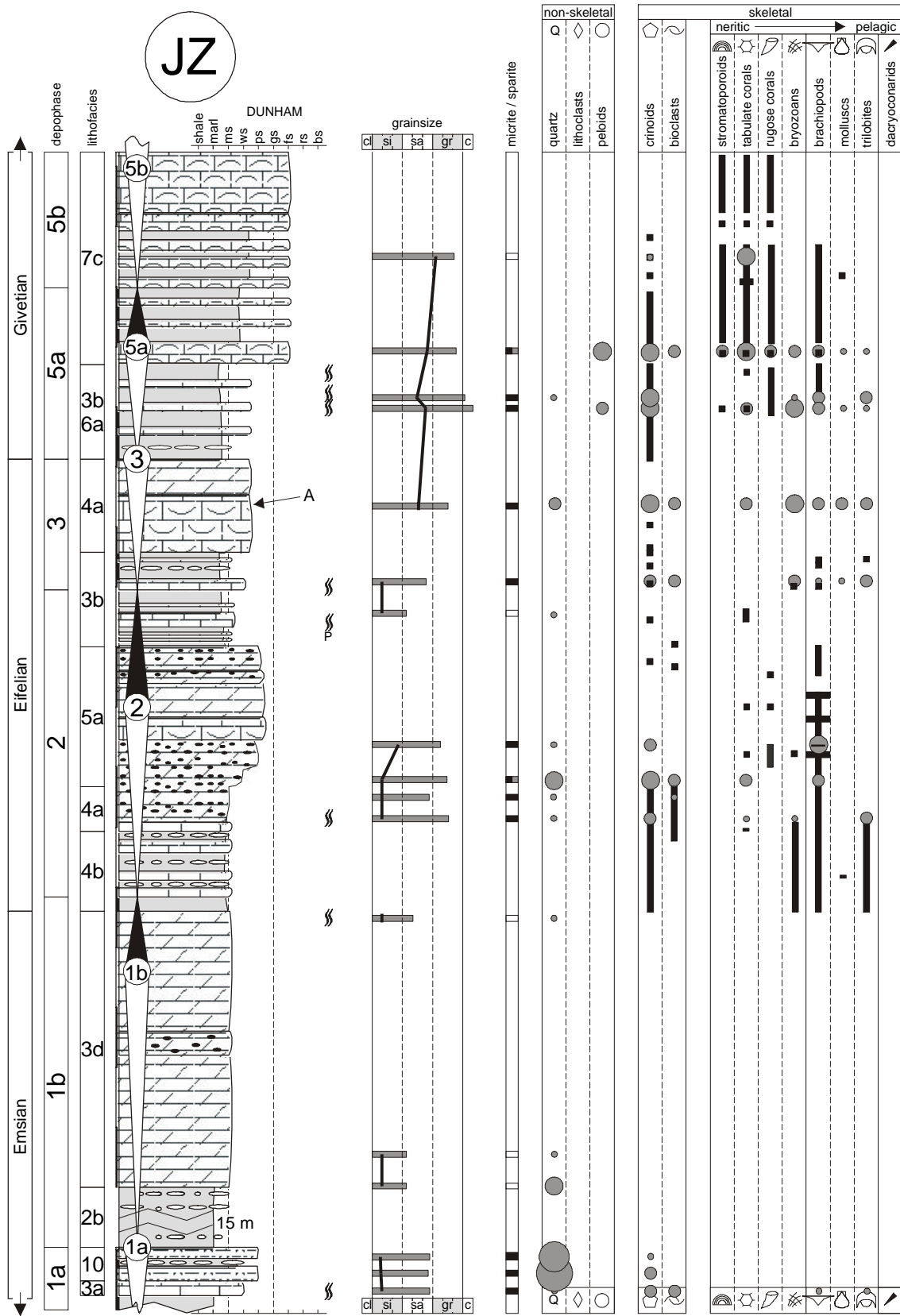
App. 14: Stratigraphic section at Tizi N'Guidou, for signatures see App. 7.



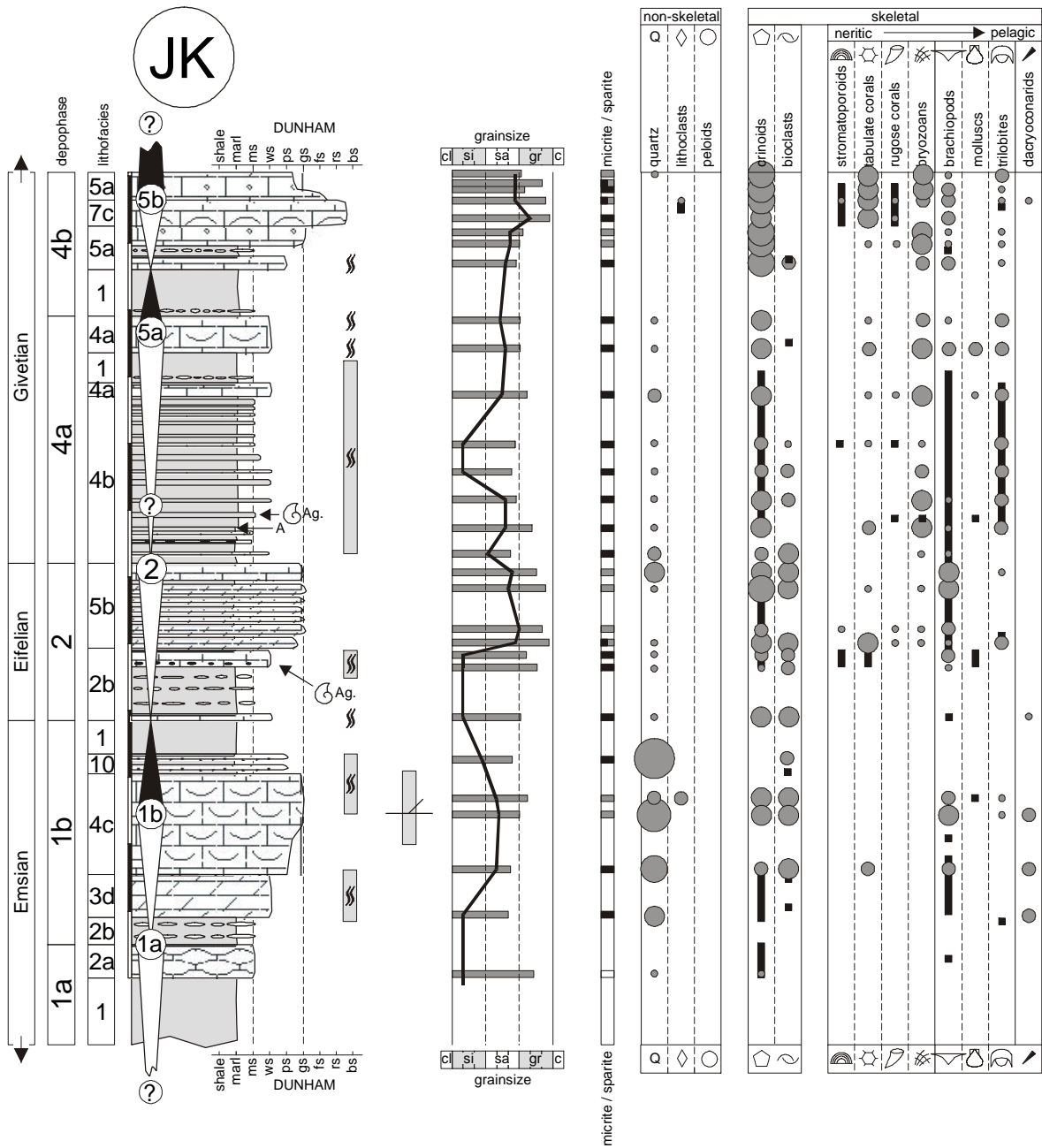
App. 15: Stratigraphic section at Jebel Maharch. A: horizons with large, colonial tabulate corals, B: cross-bedded, exceptionally coarse crinoid limestones, Fi.: *Fidelites*, Ca.: *Cabrierceras*, *Pinacites*, for signatures see App. 7.



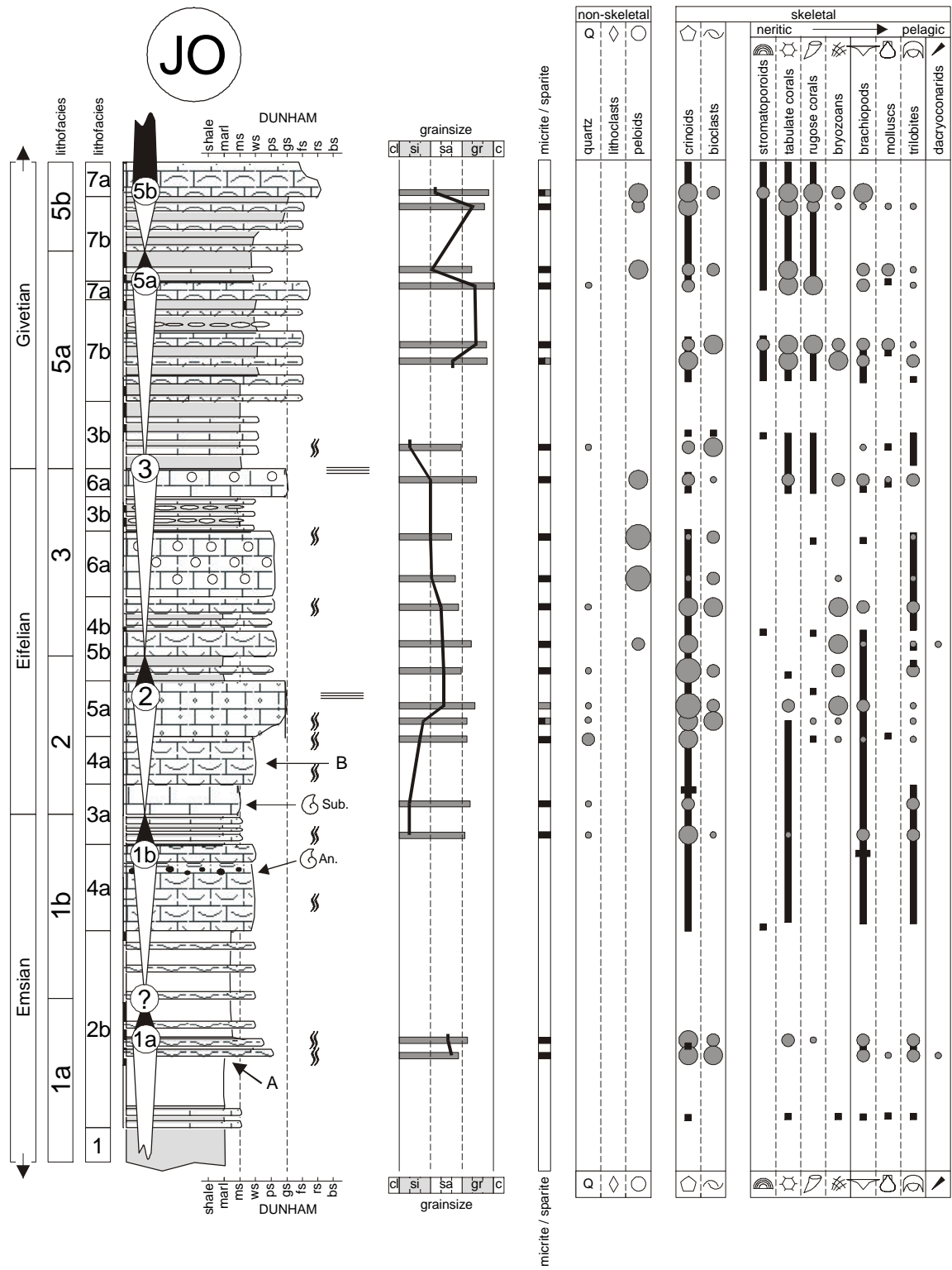
App. 16. Stratigraphic section at Madene El Mrakib. A: upper Emsian trilobite horizon, B: lower Givetian trilobite horizon and conodont sample (Lower *varcus* Zone), Chlu.: *Chlupacites*, An.: *Anarcestes*, for signatures see App. 7.



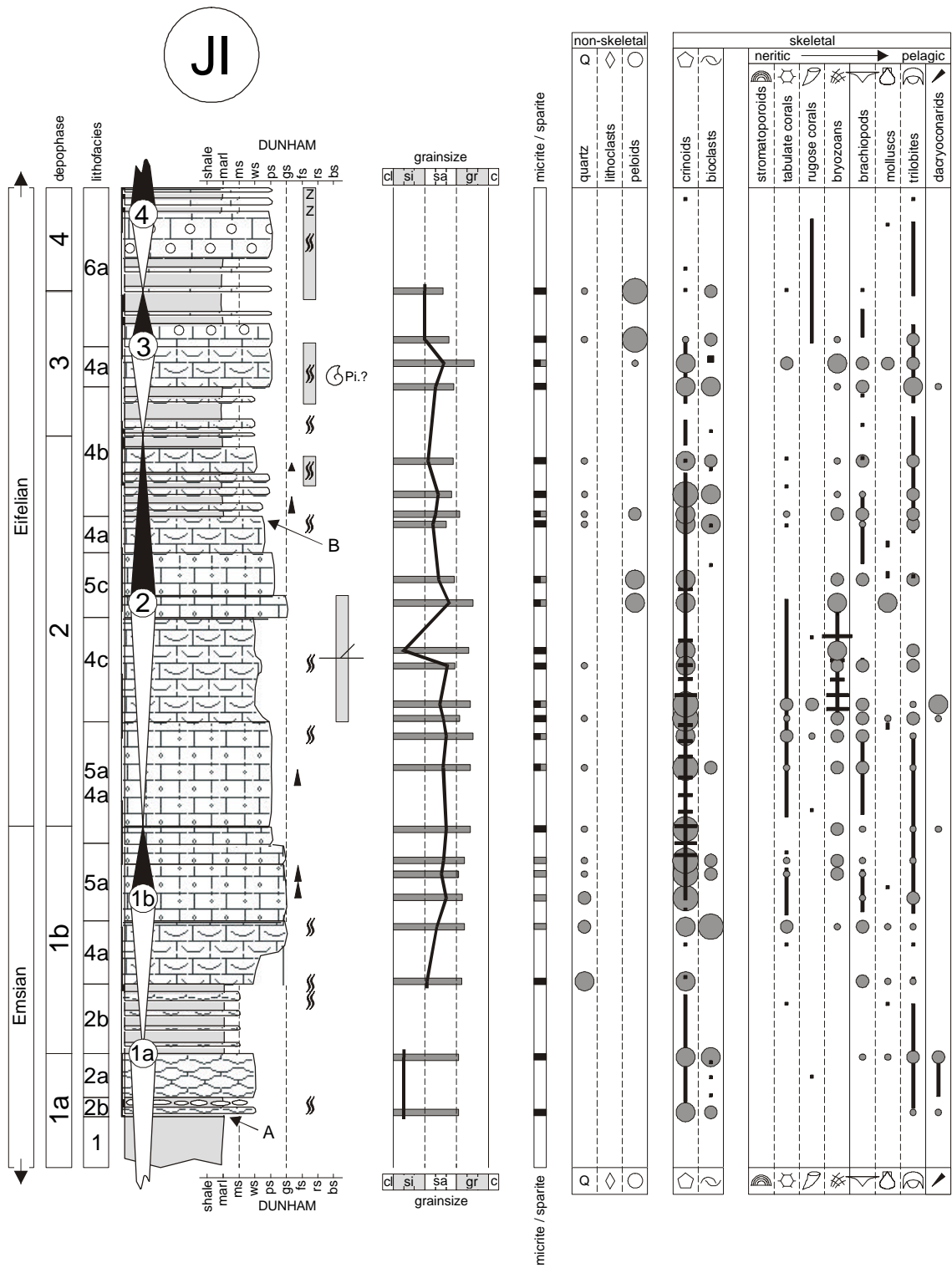
App. 17: Stratigraphic section at Jebel Zireg. A: conodont sample: lower part of the *costatus* - Lower *varcus* Zone, for signatures see App. 7.



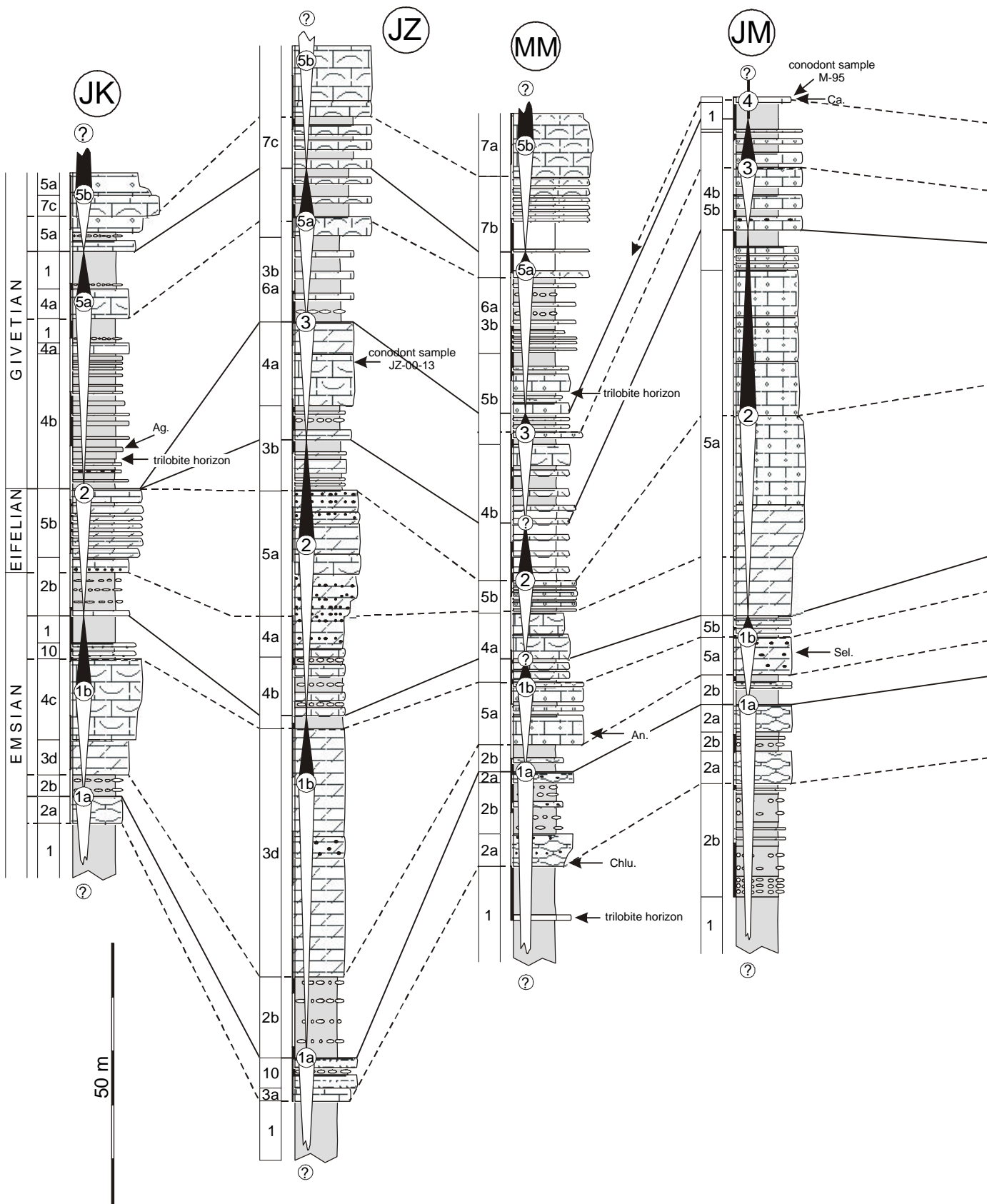
App. 18: Stratigraphic section at north of the Kem Kem Plateau. A: lower Givetian trilobite horizon, Ag.: *Agoniatites*, for signatures see App. 7.

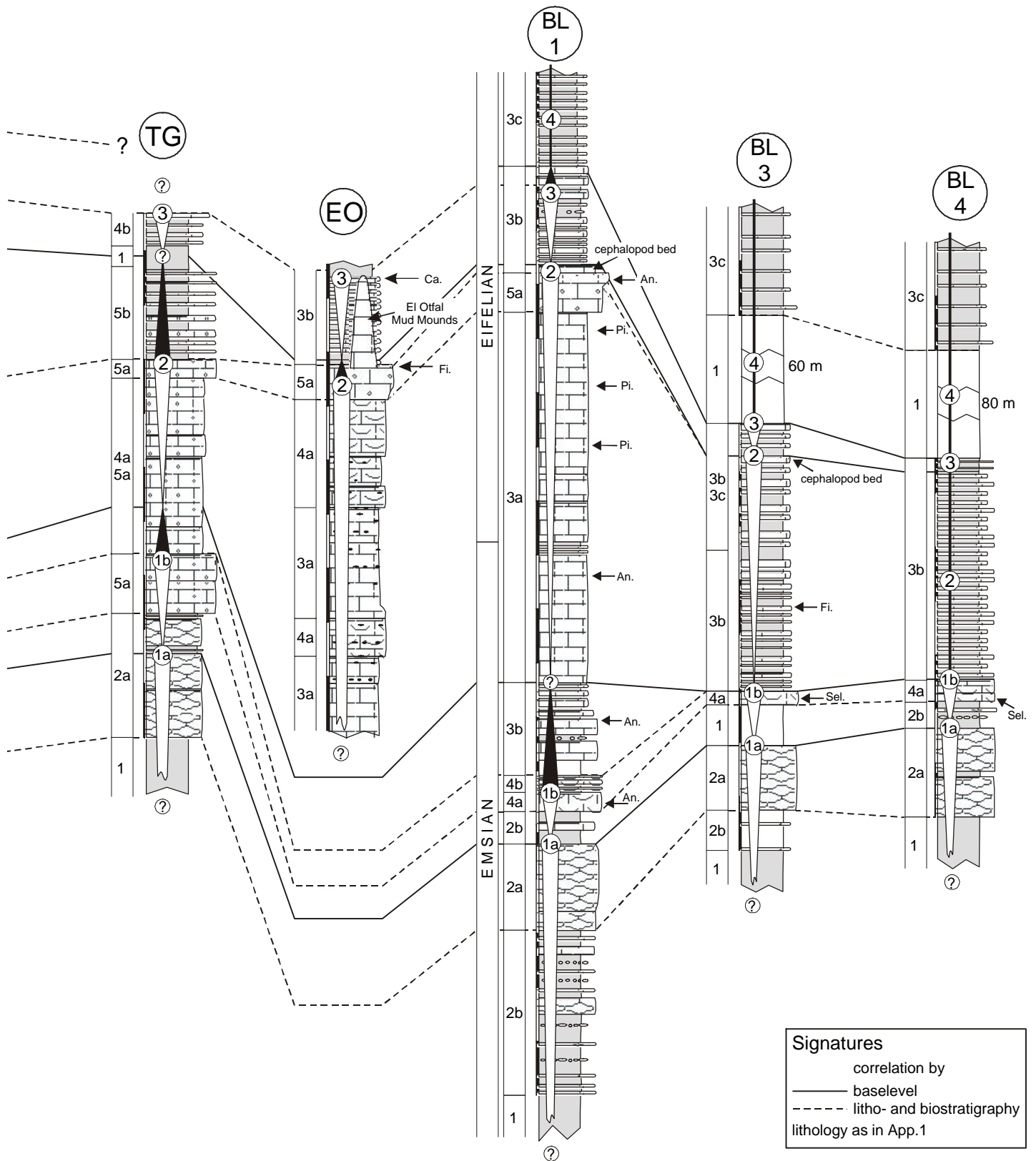


App. 19: Stratigraphic section at Jebel Oufatene. A: upper Emsian trilobite horizon, B: topographic crest, An.: *Anarcestes*, Sub.: *Subanarcestes*, for signatures see App. 7.

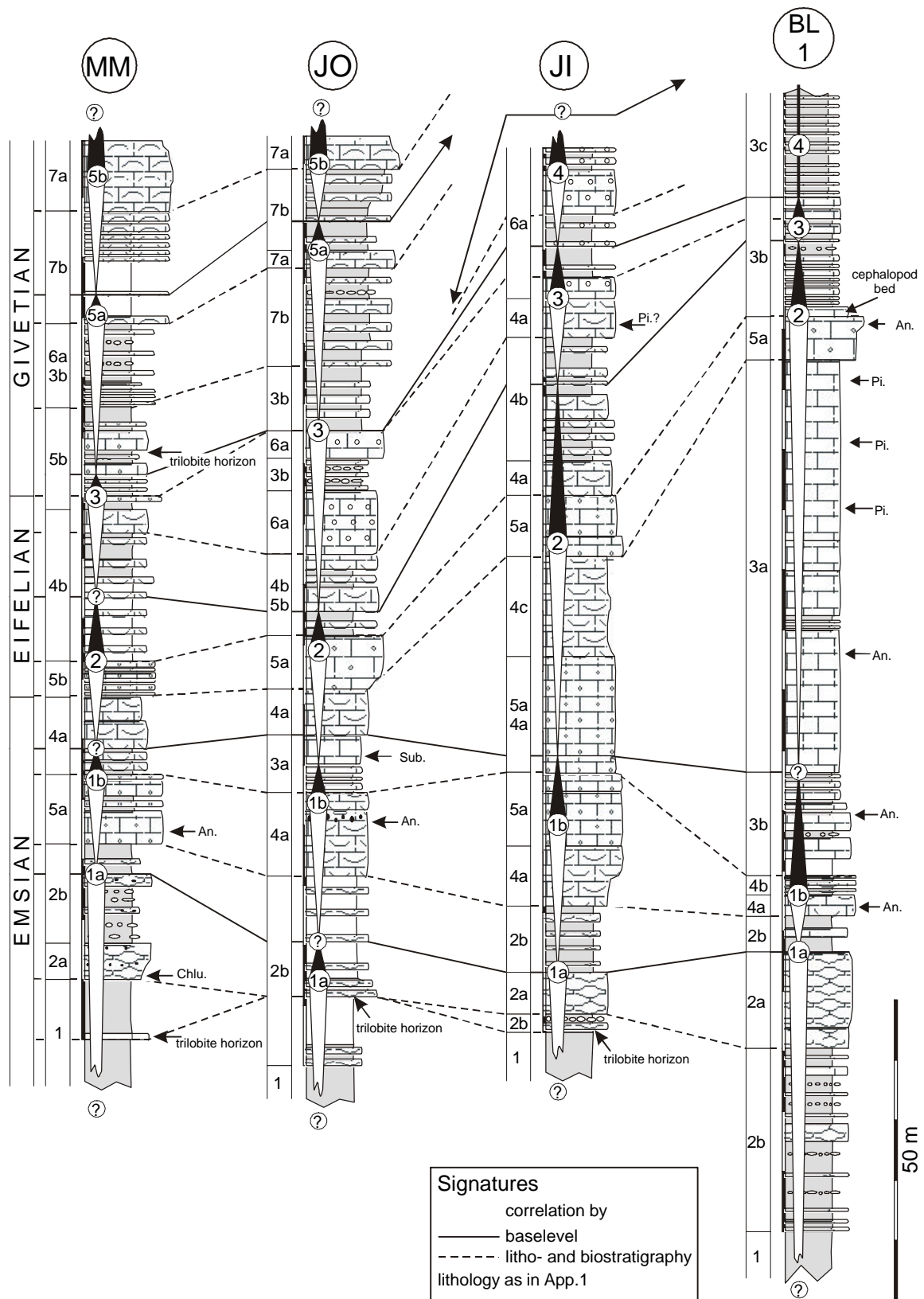


App. 20: Upper Emsian and Eifelian part of the Jebel Issoumour section. A: upper Emsian trilobite horizon, B: topographic crest, Pi.: *Pinacites*, for signatures see App. 7.

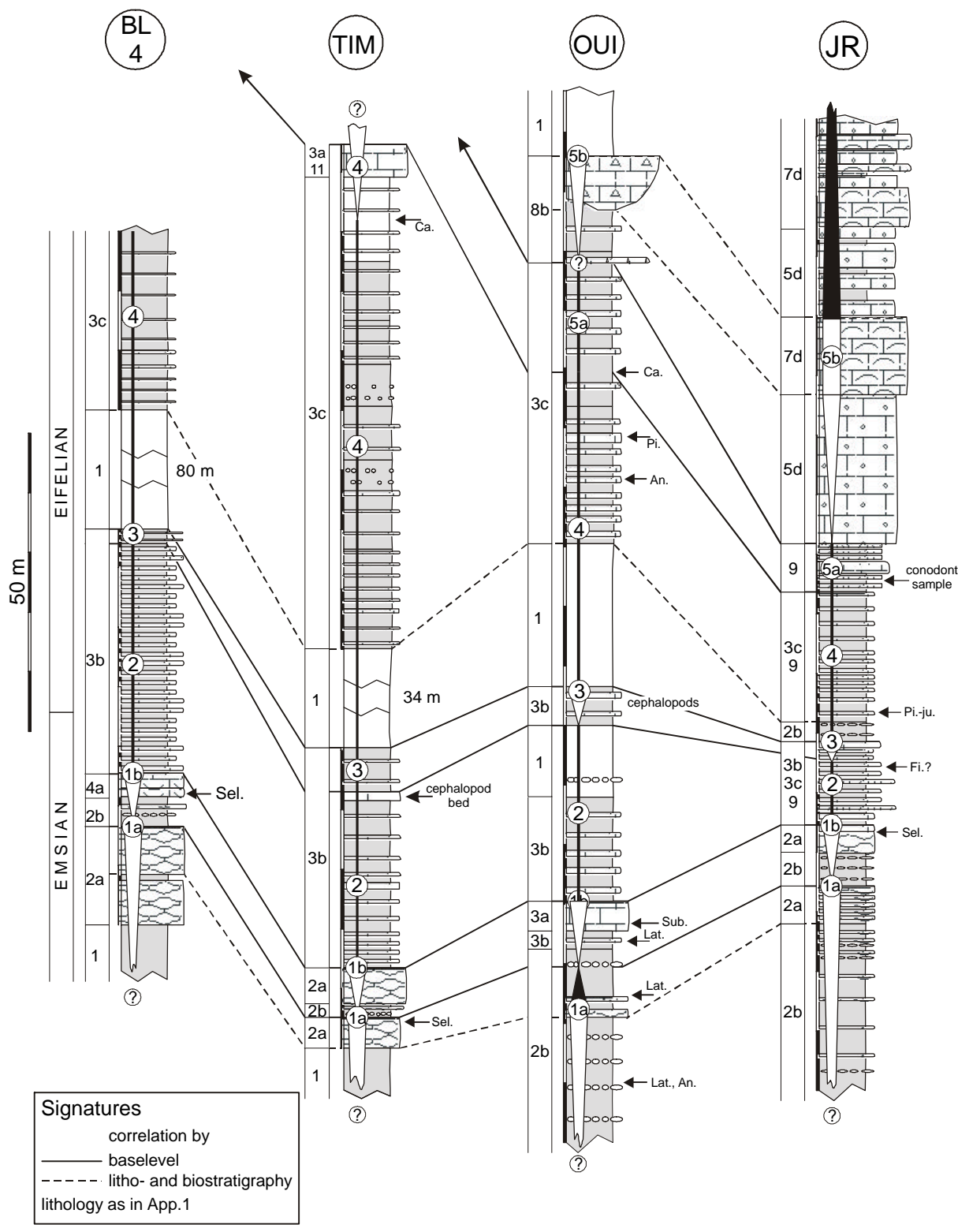




App. 21: Correlation of upper Emsian to lower Givetain sections of the southern and eastern Mader. Abbreviations (ammonoids): Chlu.: *Chlupacites*, An.: *Anarcestes*, Sel.: *Sellanarcestes*, Pi.: *Pinacites*, Fi.: *Fidelites*, Ca.: *Cabrieroceras*, Ag.: *Agoniatites*.

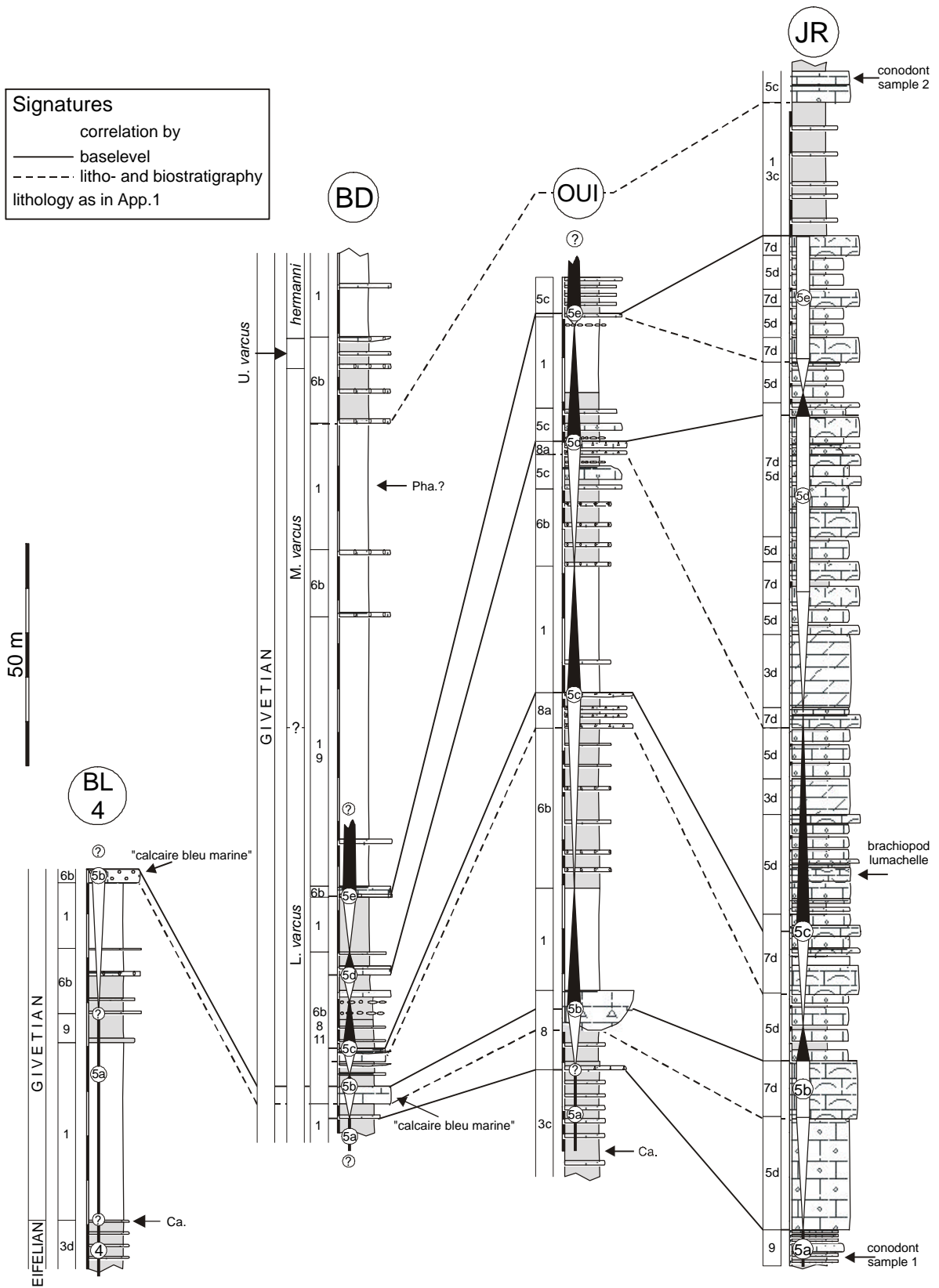


App. 22: Correlation of upper Emsian to lower Givetian sections of the southern and western Mader. Abbreviations (ammonoids): Chlu.: *Chlupacites*, An.: *Anarcestes*, Sub.: *Subanarcestes*, Pi.: *Pinacites*.



App. 23: Correlation of upper Emsian to lower Givetain sections of the northern Mader. Abbreviations (ammonoids): Lat.: *Latanarcestes*, An.: *Anarcestes*, Sel.: *Sellanarcestes*, Sub: *Subanarcestes*, Fi.: *Fidelites*, Pi.-ju.: *Pinacites jugleri*, Ca.: *Cabrieroceras*.

Signatures
 correlation by
 — baselevel
 - - - - litho- and biostratigraphy
 lithology as in App.1



App. 24: Correlation of lower Givetian sections of the northern Mader. Abbreviations (ammonoids): Ca.: *Cabrieroceras*, Pha.: *Pharciceras*. "Calcaire bleu marine" refers to the terminology of Hollard (1974) and represents a lithologic marker bed of the northern Mader (compare Pl. 6, Fig. 2).

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