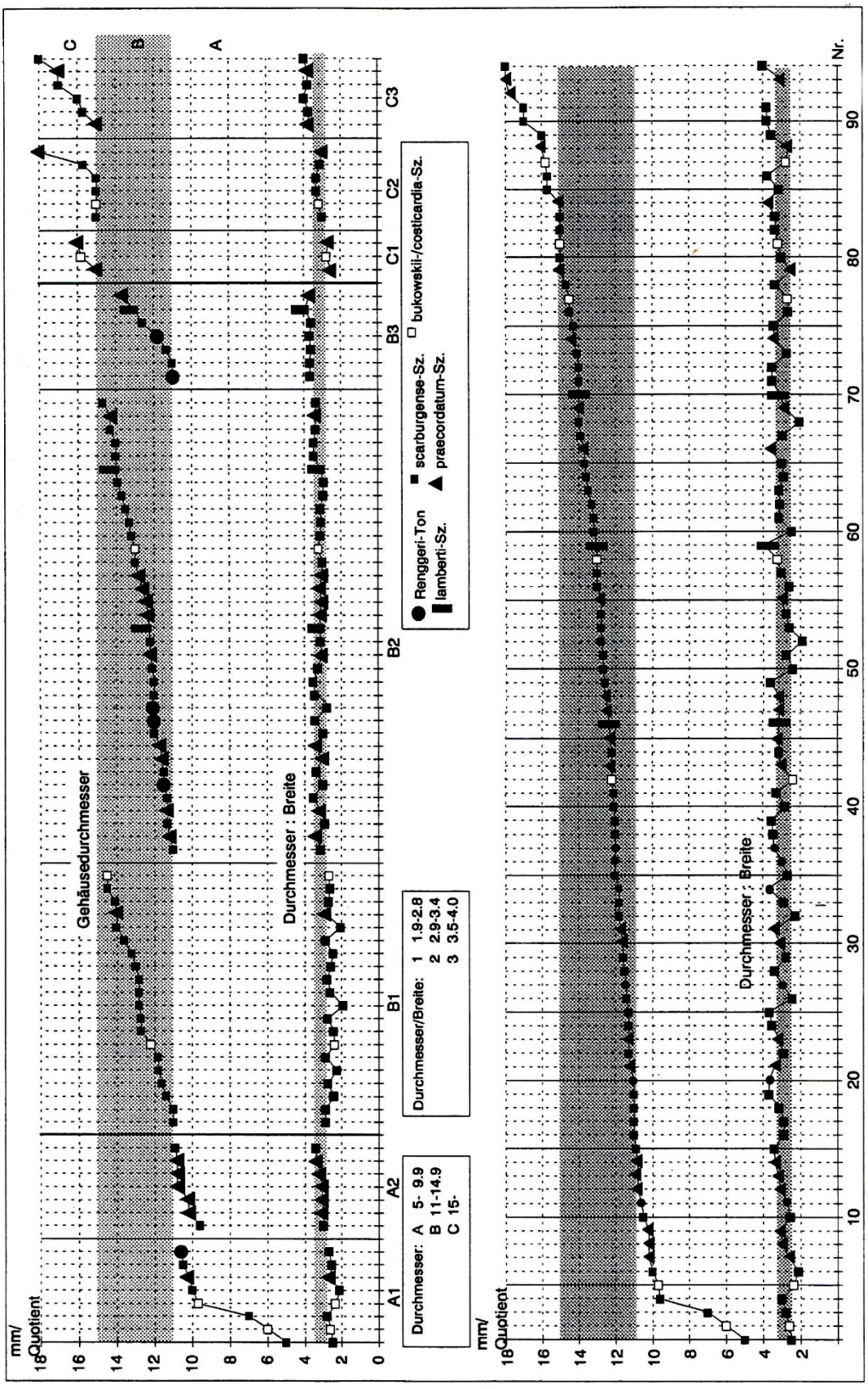
Scaphidodites (Analysis of statistic material)



Stratigraphical distribution

Range from / to	Renggeri Marl	Chron	Add. Code
<- -222406	**older**	**Lamberti chron and earlier**	**A1**
222406-223111	**older/equals**	**Lamberti / Scarburgense chron**	**A2**
223111	**equals**	**Mariae chron**	**B1**
223111-223112	**equals**	**Mariae/Cordatum chron**	**B2**
223112	**equals/younger**	**Cordatum chron**	**C1**
223112-223121	**younger**	**Cordatum/Transversarium chron**	**C2**
223121- >	**younger**	**> Cordatum chron**	**C3**

Quite frequently literature shows stratigraphical range of species. To manipulate this criteria for groupings by a computer, the codification was done as follows and is shown in the table of that chapter:

A1/2:
Ammonite with such a code should help to define the border of the Renggeri marl at the real beginning. The meaning is "bottom / older". In my opinion *Creniceras renggeri* seem to be a good indicator for defining the borderline of the oldest parts of the Renggeri marl and therefore, as well the border of Callovian / Oxfordian or Middle / Late Jurassic. The only problem might be caused by *Glochiceras (Coryceras) n.sp.* (1991, T8/Abb.2) of GYGI, which in my opinion as well could be a *Distichoceras (Horioceras) bidentatus*, which lasts till *Lamberti* subchron (see Kandern or Tarcenay/road, bank).

Code A1 should mark ammonites, which according to literature appear before or within *Lamberti* chron, A2 the ones, which were living around the border line, meaning *Lamberti* as well as *Scarbugense* subchron.

B1-2:
Fossils marked with B1 do exist in the Mariae chron. Certain adaptation had been made out of own experience, but they are limited maximum to one subchron.
B2 Ammonites do exist in the Mariae chron as well as in the Cordatum chron. They are not differentiated in more detail because most of the information came from HAAS or DE LORIOL and do not allow a more detailed classification. In my opinion both authors are describing a fauna which lasts up to Costicardia subchron, possibly up Cordatum subchron. For further details see description of sites and findings.

C1-3:
As already mentioned earlier the Bukowskii subchron was combined with the Costicardia subchron as a differentiation of these subchrons for me is too difficult (too many intermediates).

Fossils marked with **C1** are from the Cordatum chron. The final stage of this subchron could not be found / defined in the search area

Ammonites marked with **C2**, according to literature, are lasting till Transversarium chron .

C3 marks individuals not belonging to the Cordatum chron and were not found within the described sites. They are only mentioned to define the upper border of the Renggeri marl.

Site codes with an asterix (*) specially Code 43 = Châtillon/CH depend on information from B.Hostettler (RMPG).