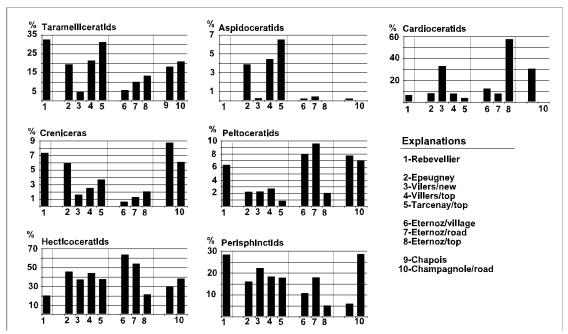
Bukowskii / Costicardia Subchron (plate 42.1)



Bukowskii / Costicardia subchron

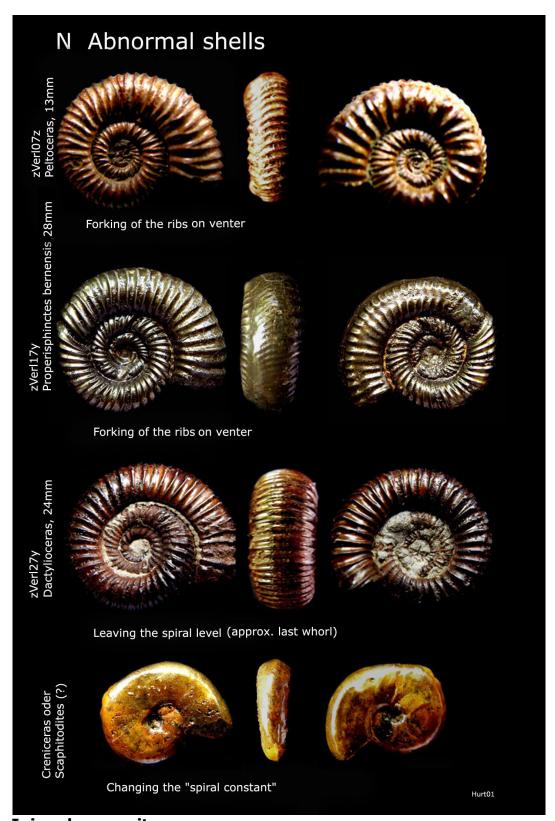
To differentiate a Bukowskii subchron from a Costicardia subchron is too difficult for me. The relatively remarkable frequency of the Aspidoceratids and the relatively rare Peltoceratids at the area of Villers-s/s-Montrond and the low number of Creniceras in the area of Eternoz are worthwhile mentioning.

Whether these statements are appropriate on a subchron level should be left to the reader. Every one who wants to analyse more details may look at table 6.212, which has figures for previously shown graphs.

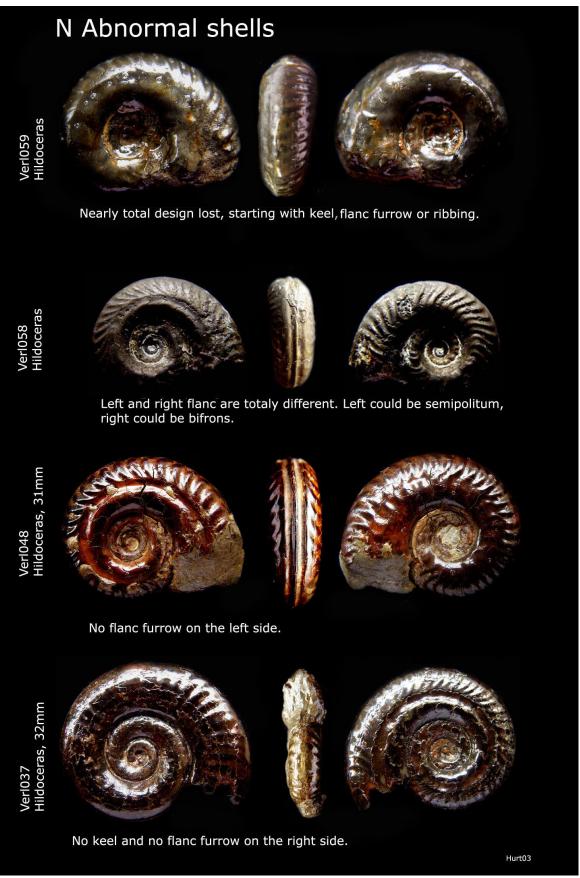
Abnormal ammonite shells

Exceptional wise one can find shells, which show differences of their normal features, specially their ornamentation. To me it does not make sense to discuss what the reason for these differences are. Prof.Hoelder from University Muenster/D has given latin names for these variances and makes proposals what the reasons for these variances might be like attack by a predator or repair, illness, genetic changes etc. At least the pictures show the possibilities this type of fossils have to overcome certain problems.

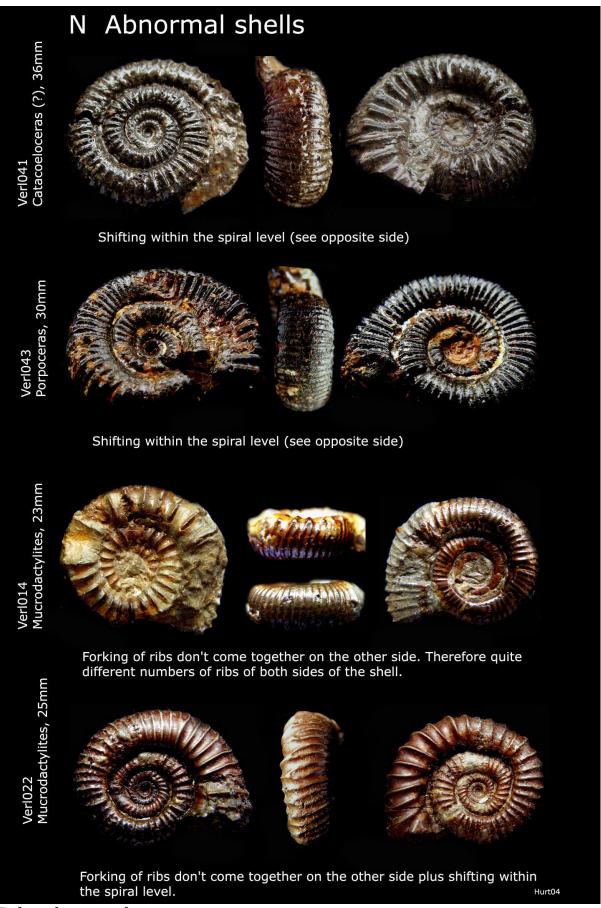
The following pages show abnormal shells which are exceptional findings. Whether the reason is a desease or a repair after an attack of a predator, who knows. I don't want to speculate.



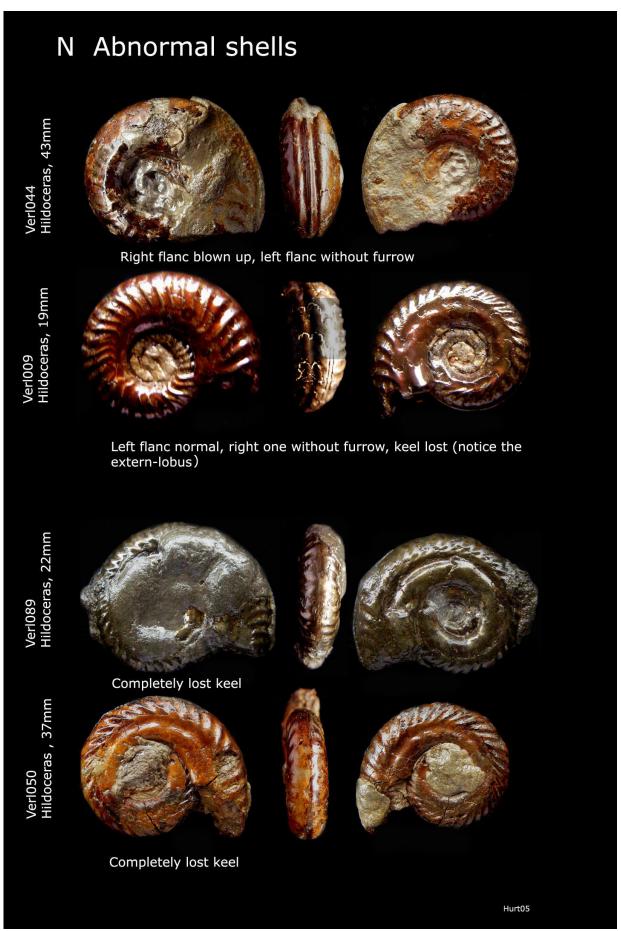
Injured ammonites



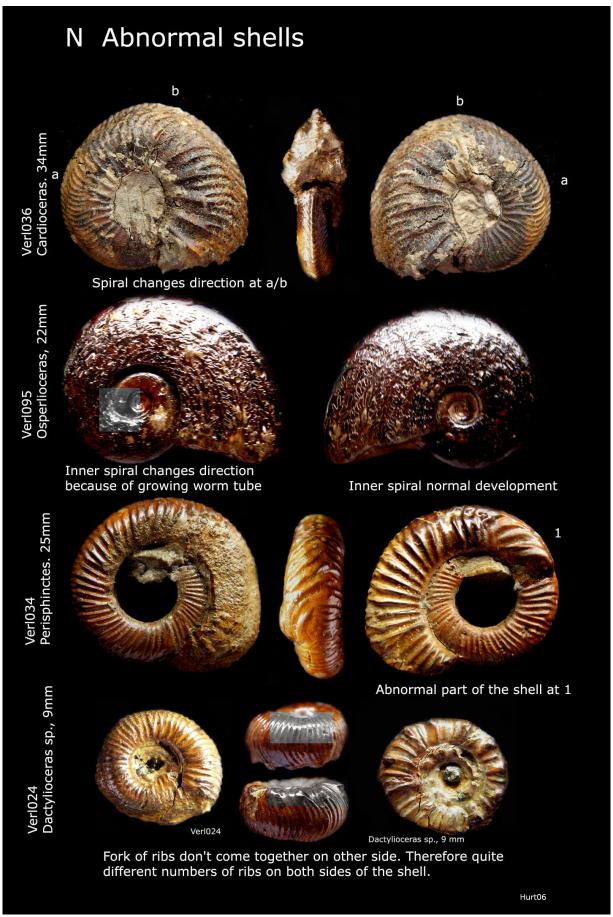
Injured ammonites



Injured ammonites



Injured ammonites



Injured ammonites

r



Injured ammonites



Coll_Uth02 001a_128 Nautilus



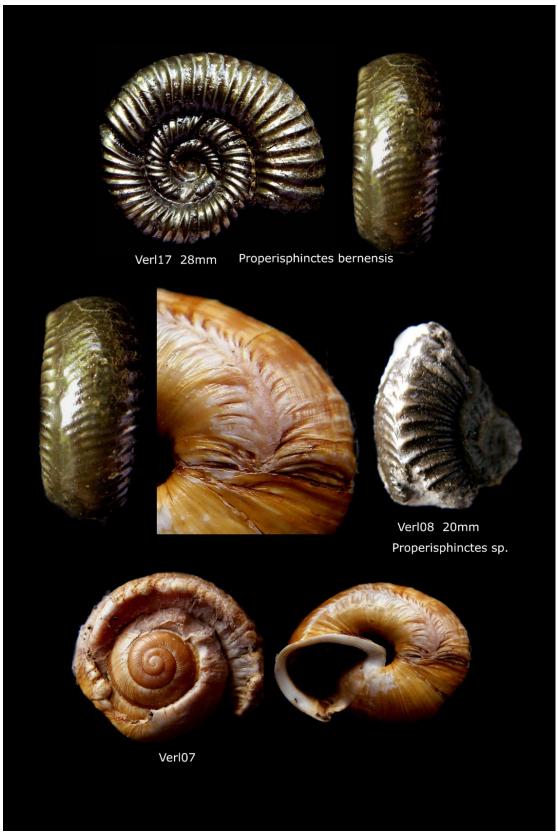
Dr.Lange01a (Collection
Dr.B.Lange/Basel-CH) Left side



Injured ammonites
Detail02e Shifting / Changing
the spiral level



Dr.Lange01b Right side



Injured shells/(animals)

As one calls such a damage of this Perisphinctes bernensis (top) forking of ribs (because a Perisphinctes occasionally has ribs and the repair occasionally looks like forking of ribs), one can't call the changing of the design of that land snail for sure not forking of ribs (because there do not exist any ribs). But the principle of that repair looks very similar.

This animal as well survived this massive repair quite a while (approx. 1 ½ windings).