The floor of the Sacristy is covered with animal prints, and the decision was made not to go to the back of the chamber, which means that there are some unexplored areas. It is accessed via a small corridor at the left of the End Chamber, and contains drawings of a beautifully executed horse, a rhinoceros, a big feline and a large bison that was both scraped and engraved.

The low ceiling of the Megaloceros Gallery allows only a single path down the axis leading to the End Chamber. As well as the drawing of the megaloceros, there are several rhinoceroses drawn, notably with a broad black panel in front of the hindquarters, possibly denoting one of the thick skin plates.

The End Chamber entrance is four metres below the Megaloceros Gallery, at the level of the Panel of the Big Lions and the Panel of the Rhinoceroses. The ceilings are from five metres to 12 metres high, with many rock pendants. It contains some of the finest art in the Chauvet Cave, of big cats, bison, rhinoceroses, and mammoths.

The Hillaire Chamber is about 30 metres in diameter, and although the entrance from the Candle Gallery is low, the ceiling is up to 17 metres in height, and has few concretions. The decorations consist of engravings and finger tracings in the soft walls, often overlapping, and in some cases now preserved under a calcite coating.

The Rouzaud Chamber leads off the Red Panels Gallery, and the floor rises rapidly, so that the visitor cannot stand upright within this chamber. The gallery floor is a succession of gours (calcite rimmed pools), and this is the most humid of the galleries. The prehistoric artists penetrated this gallery, and left an unfinished drawing.

The Apodemus Chamber gets its name from the modern field mouse (Apodemus sylvaticus) found there dead and decomposing by the discoverers of the cave.

The Cactus Gallery is largely unexplored, in the sense that the only movement permitted is in the path taken by the original explorers. Fragments of every size have fallen from the ceiling, and the area gets its name from a mass of concretions developed on this collapse.