# Velilla de Valdoré

This is the second day of the mapping campaign. We will follow a 8 km itinerary collecting geological information in stops of special interest, whose description follows.

## 2.1

Coordinates are 42.87243 N, 5.17501 W.

Sandstones, often with carbonate cement, which display a variety of coloration, including light cream, and greenish. They alternate with locally thick shale intervals, dark brown. No fossils are found.

Bedding is 322/24.

## 2.2

Coordinates are 42.87159 N, 5.18136 W.

Dark marls with light-coloured coarse-grained limestone intercalations (grainstones), in beds of around 20 cm. A brachiopod specimen within the marls has been identified as *Athyris concentrica*.

Bedding is 154/44.

FOSSIL PHOTO.

## 2.3

Coordinates are 42.87036 N, 5.18224 W.

Nodular pink-red limestones crop out badly, with red marl intercalations. On top of that, after some 2 m covered by vegetation, there are breccias formed by angular limestone fragments of a few cm-size. They are at least 1 m-thick.

Bedding is 151/49.

PHOTO OF BRECCIAS.

## 2.4

Coordinates are 42.87020 N, 5.18324 W.

Nodular red and pink limestones with biocloasts, alternating with dark-red marls and shales. At this point, they are overlain by greenish-coloured shales with thin sandstone layers rich in glauconite.

## 2.5

Coordinates are 42.87134 N, 5.18489 W.

Glauconite-bearing sandstones with brown shale intercalations. A broken limonite-stained trilobite specimen of *Solenopleuropsis sp.* is found within the shales.

Bedding is 134/36.

PANORAMIC VIEW AND FOSSIL PHOTO

## *2.6*

Coordinates are 42.87167 N, 5.18739 W.

Light-grey micritic limestones with frequent calcite-filled fenestral porosity (birdseyes). In fresh cut they are light coloured as well. Bedding planes are tabular and range in thickness between 15 cm and 30 cm.

Bedding is 200/72.

PHOTO OF OUTCROP

## *2.7*

Coordinates are 42.874409 N, 5.18633 W.

Rocks crop out badly. Among the grass, there are breccias formed by angular limestone fragments within a fine-grained brown-coloured matrix. Fine-grained micritic limestones are found both E and W from the outcrop.

Bedding is 200/88.

## *2.8*

Coordinates are 42.87435 N, 5.18449 W.

Pink-nodular micritic limestones with abundant red-marl and shale intercalations.

Bedding is 196/35.

OUTCROP PHOTO.

## 2.9

Coordinates are 42.87634 N, 5.18488 W.

Packstone and wackestone limestones in regular beds of 10-15 cm, and abundant marly intercalations, very rich in fossil fauna. A brachiopod found in the marls could pertain to the *Athyris* genre? Unclear.

Bedding is 020/80.

PHOTO OF THE FOSSIL AND PANORAMA.

## 2.10

Coordinates are 42.88007 N, 5.186745 W.

Dark-brown, locally greenish shales. Locally, thin (*ca.* 2 cm) beds of siltstone, also dark-coloured.

Bedding is 200/64.

## 2.11

Coordinates are 42.87979 N, 5.18451 W.

Thinly-bedded light-gray wackestone and packstone limestones, locally deformed by small-scale folds.

Bedding is 026/80.

PHOTO AND PANORAMA.

## 2.12

Coordinates are 42.87938 N, 5.184511 W.

Fossil-rich sandy grainstone limestones give way to massive brown shales, thinly laminated and with local nodular concretions.

Bedding is 202/18.

## 2.13

Coordinates are 42.87699 N, 5.18014 W.

Bedding is 162/8.

PHOTO

## 2.14

Coordinates are 42.87486 N, 5.18039 W.

Massive wackestone light-gray limestones, with levels enriched in reefal tabulate corals, often silicified.

Bedding is 168/44.

## 2.15

Coordinates are 42.87054 N, 5.17890 W.

Contact between bioclastic grainstone limestones, beige coloured and with cross-lamination in some beds, and dark-coloured massive shales with a very penetrative and characteristic lamination.

CALCULATE BEDDING FROM THE STRUCTURAL CONTOURS.

## 2.16

Coordinates are 42.86779 N, 5.16888 W.

PHOTO

Bedding is 316/19.