Figure DR1. Detailed orthophotos quads of the sampled sections at the northern sector: Ara River and Bal Ferrera section (ED50, zone 30).

Figure DR2. Detailed orthophotos quads of the sampled sections at the southern sector: Coscollar and Mondot sections (ED50, zone 30). The Eripol profile by Bentham (1992) is also shown.

Figure DR3. Complete paleomagnetic data of the Ara River section. Black, grey and light grey points represent high, intermediate and low quality ChRMs, respectively. NRM values are also shown.

Figure DR4. Complete paleomagnetic data of the Coscollar section. Black, grey and light grey points represent high, intermediate and low quality ChRMs, respectively. NRM values are also shown.

Figure DR5. Complete paleomagnetic data of the Mondot section. Black, grey and light grey points represent high, intermediate and low quality ChRMs, respectively. NRM values are also shown.