

4 Post - LGM glacial and glaciofluvial environments in a tectonically active area (southeastern Alps)

Excursion Leaders: Giovanni Monegato, Paolo Mozzi, Alessandro Fontana, Maria Eliana Poli, Lukas Rettig, Sandro Rossato.

Proposed Excursion Dates: 21st- 23rd July

Draft Itinerary: Venice –Treviso – Montebelluna -Vittorio Veneto – Polcenigo – Piancavallo - Maniago-Meduno -San Daniele del Friuli - Venice

Definitive cost per head: € 400

Accommodation arrangements: Hotel

Proposer Contact Details:

Giovanni Monegato

Institution and Address: CNR-IGG, via G. Gradenigo 6, Padova

Phone: 3397769052 Email: giovanni.monegato@igg.cnr.it

Paolo Mozzi

Institution and Address: Department of Geosciences, University of Padova, via G. Gradenigo 6, Padova

Phone: 3316133898 Email: paolo.mozzi@unipd.it

The field trip will take place along the southeastern Alpine foothills, from the outlet of the Piave River to the Tagliamento end moraine system. This area was interested by the spread of the piedmont lobes of the Piave and Tagliamento glaciers during Pleistocene glaciations. The stratigraphic successions of the end moraine systems and outwash fans and megafans yielded important information about the development of Alpine glacier lobes and their interaction with local catchments. The outermost Alpine mountain ranges also hosted local independent glaciers, which provided important paleoclimate information on the LGM.

The area belongs to the Plio-Quaternary active front of the eastern Southern Alps, a polyphase S-SE-verging fold-and-thrust belt in activity since Middle Miocene onward. Active faults of the front of the eastern Southern Alps displaced older Pleistocene successions and created small local basins of lacustrine/palustrine environments. Some destructive earthquakes (Mw 6.0-6.5) took place in the last Millennium and recurrent historical tectonic activity of the external front was testified by paleoseismological investigations.

Participants will have the possibility of visiting key stratigraphic sites and discuss the peculiar interaction between major glaciations and tectonic activity in shaping this scenic landscape and in defining local sedimentary basins.