

Supplement

Pictures of some of the cliffs included in this study

The legend gives the name of the site (according to Table 2), the municipality, the country, the lithology, the stratigraphy (for sedimentary rocks) and the group (according to Table 5)



Fig. S1: Middle Brother, Yosemite, USA – Granitic rock – Group 1



Fig. S2: El Capitan, Yosemite, USA - Granitic rock – Group 1



Fig. S3: Venosc (Bourg d'Arud), les Deux Alpes, F – Gneiss - Group 1



Fig. S4: Andorra – Granodiorite, Hornfels - Group 2
(from *Dulcis Santana*)



Fig. S5: Lauterbrunnen, CH – Malm limestone - Group 1



Fig. S6: Lauterbrunnen, CH - Malm limestone - Group 1



Fig. S7: French Urgonian limestone cliffs (< 1100 m) – Sassenage, Barre Pagnet – Group 1



Fig. S8: French Urgonian limestone cliffs (< 1100 m) – Veyrier du Lac, Grandes Suites - Group 1



Fig. S9: French Urgonian limestone cliffs (< 1100 m) – Varcès-Allières et Risset, Rochers de Chabloz - Group 1



Fig. S10: French Urgonian limestone cliffs (1500-2000 m) – Plateau des Petites Roches, Dent de Crolles - Group 1



Fig. S11: French Urgonian limestone cliffs (1500-2000 m) – Sainte Marie du Mont, Grand Manti - Group 1

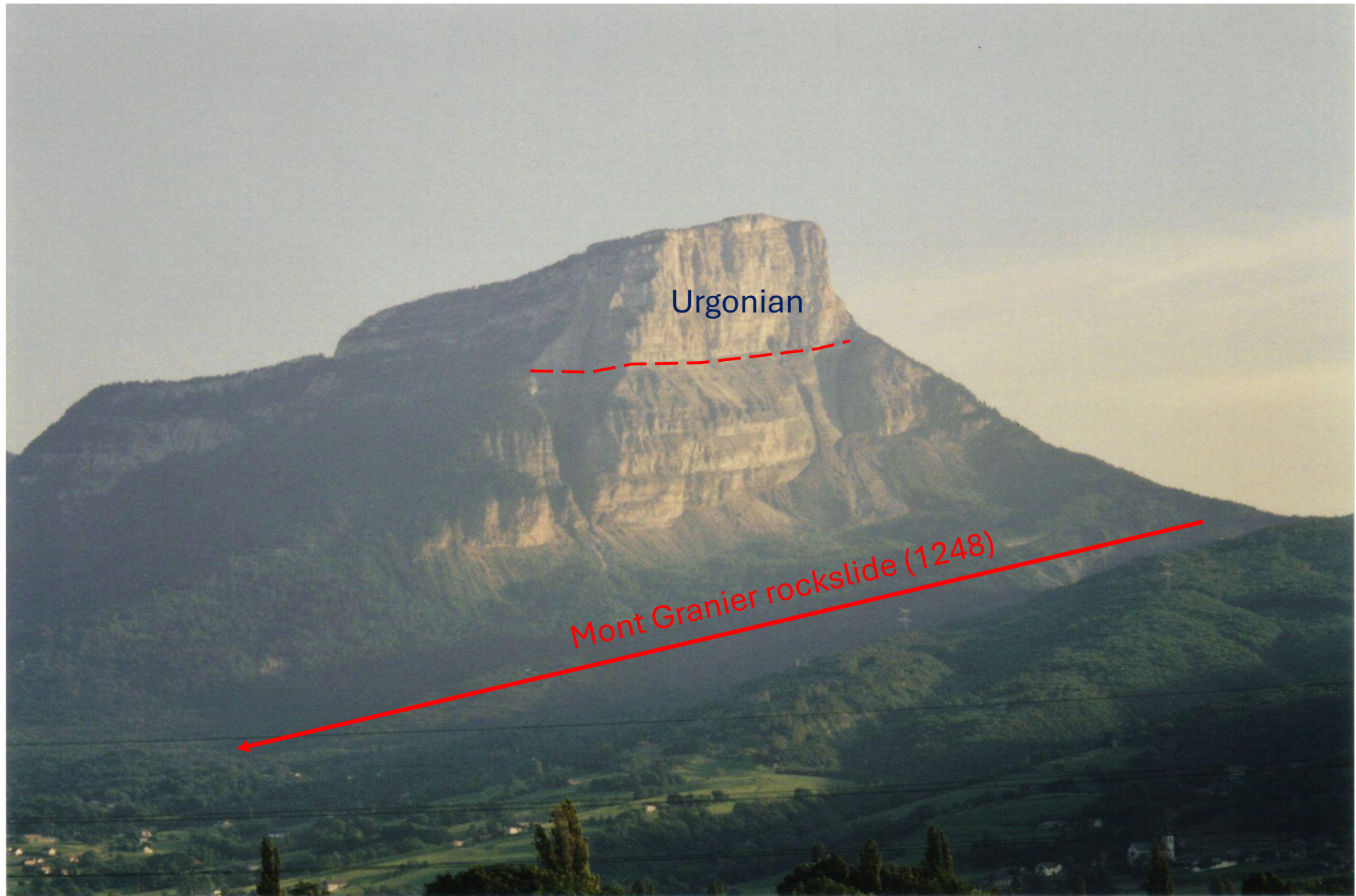


Fig. S12: French Urgonian limestone cliffs (1500-2000 m) – Chapareillan, Mont Granier North face - Group 1



Fig. S13: French Urgonian limestone cliffs (1500-2000 m) – Chapareillan, Mont Granier East and North faces – Group 1

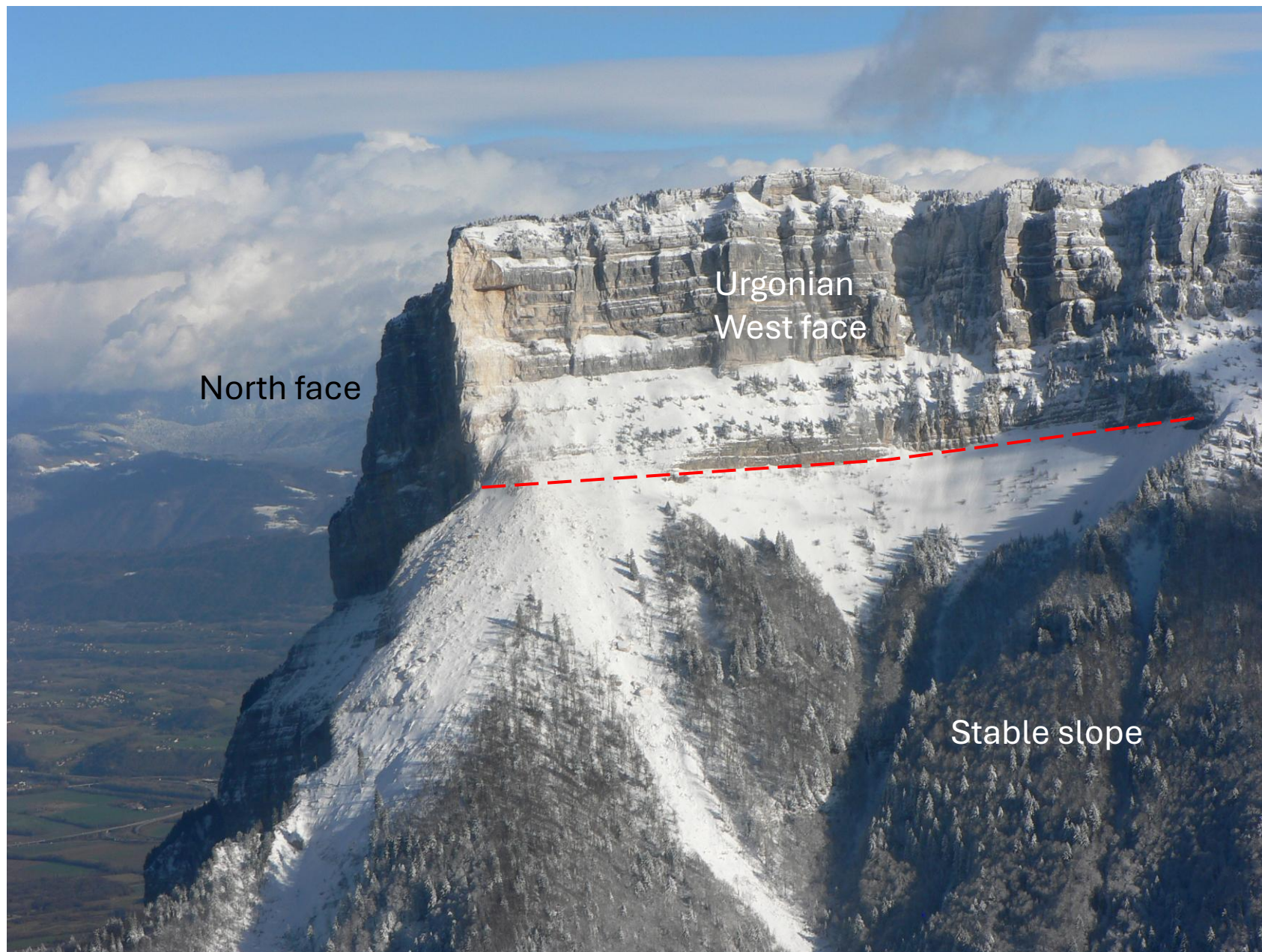


Fig. S14: French Urgonian limestone cliffs (1500-2000 m) – Chapareillan, Mont Granier North and West faces – Group 1

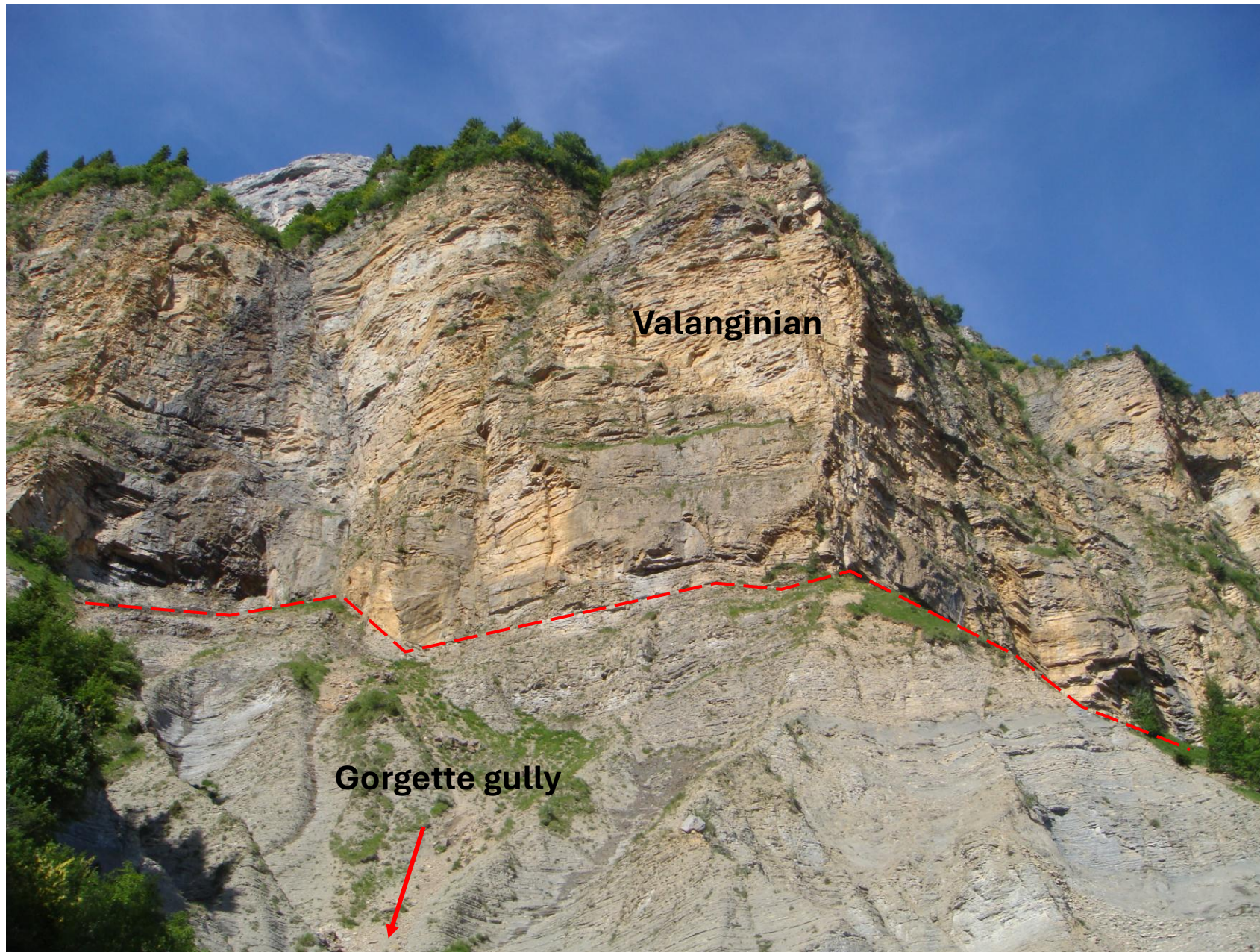


Fig. S15: Valanginian limestone cliff – Plateau des Petites Roches, Gorgette gully – Group 2



Fig. S16: French Thitonian limestone cliffs (< 1400 m) – Claix, Rochers de Comboire – Group 1



Fig. S17: French Thitonian limestone cliffs (< 1400 m) – Claix, Rochers de Comboire - Group 1



Fig. S18: French Tithonian and Sequanian limestone cliffs – Corenc, Mont Saint Eynard - Group 1 and 3 respectively

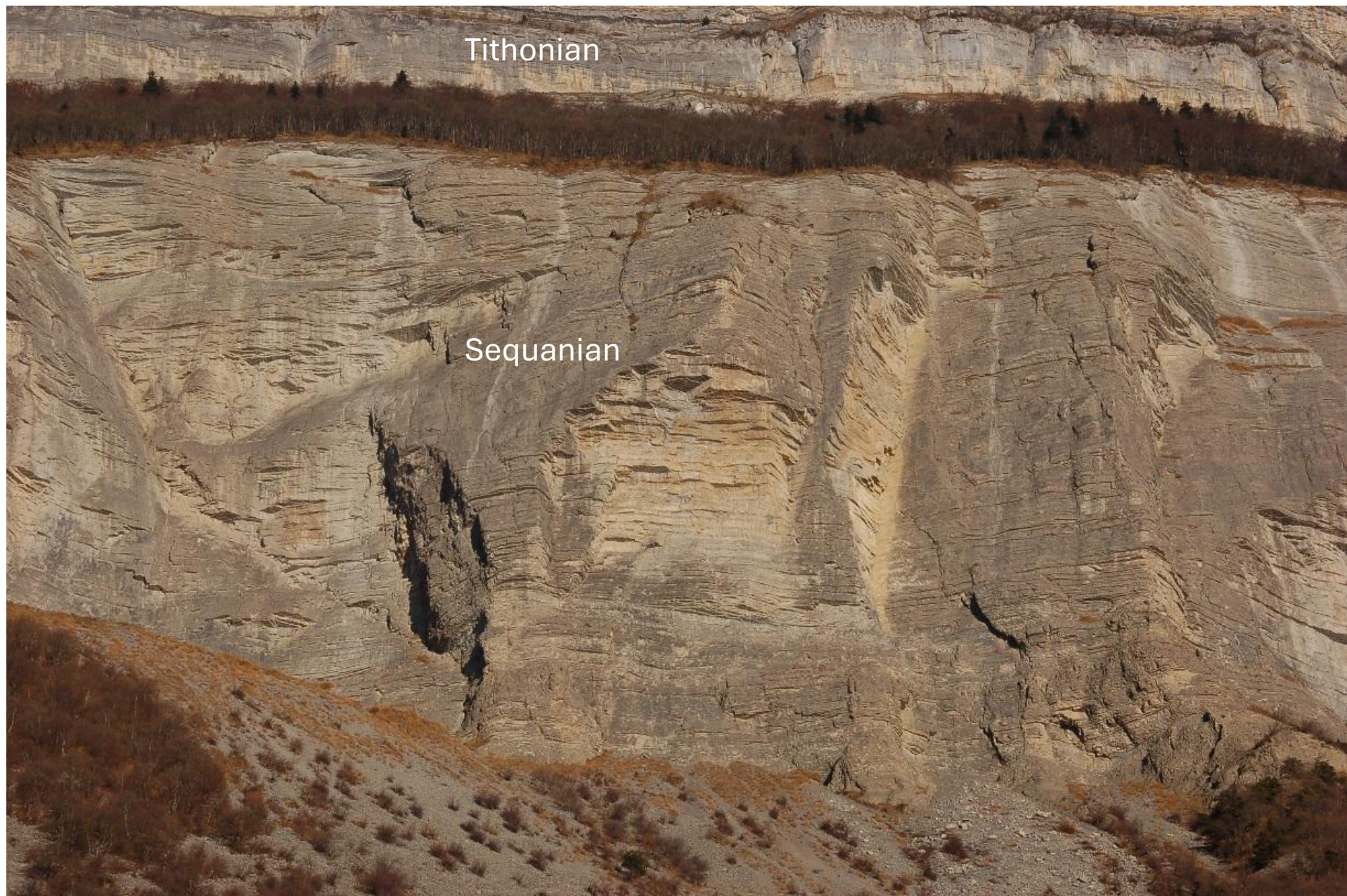


Fig. S19: French Tithonian and Séquanian limestone cliffs – Corenc, Mont Saint Eynard - Group 1 and 3 respectively



Fig. S20: Lias limestone cliff - Bourg d'Oisans, Bassey – Group 3



Fig. S21: Montserrat, Catalonia, S - Eocene conglomerate – Group 1

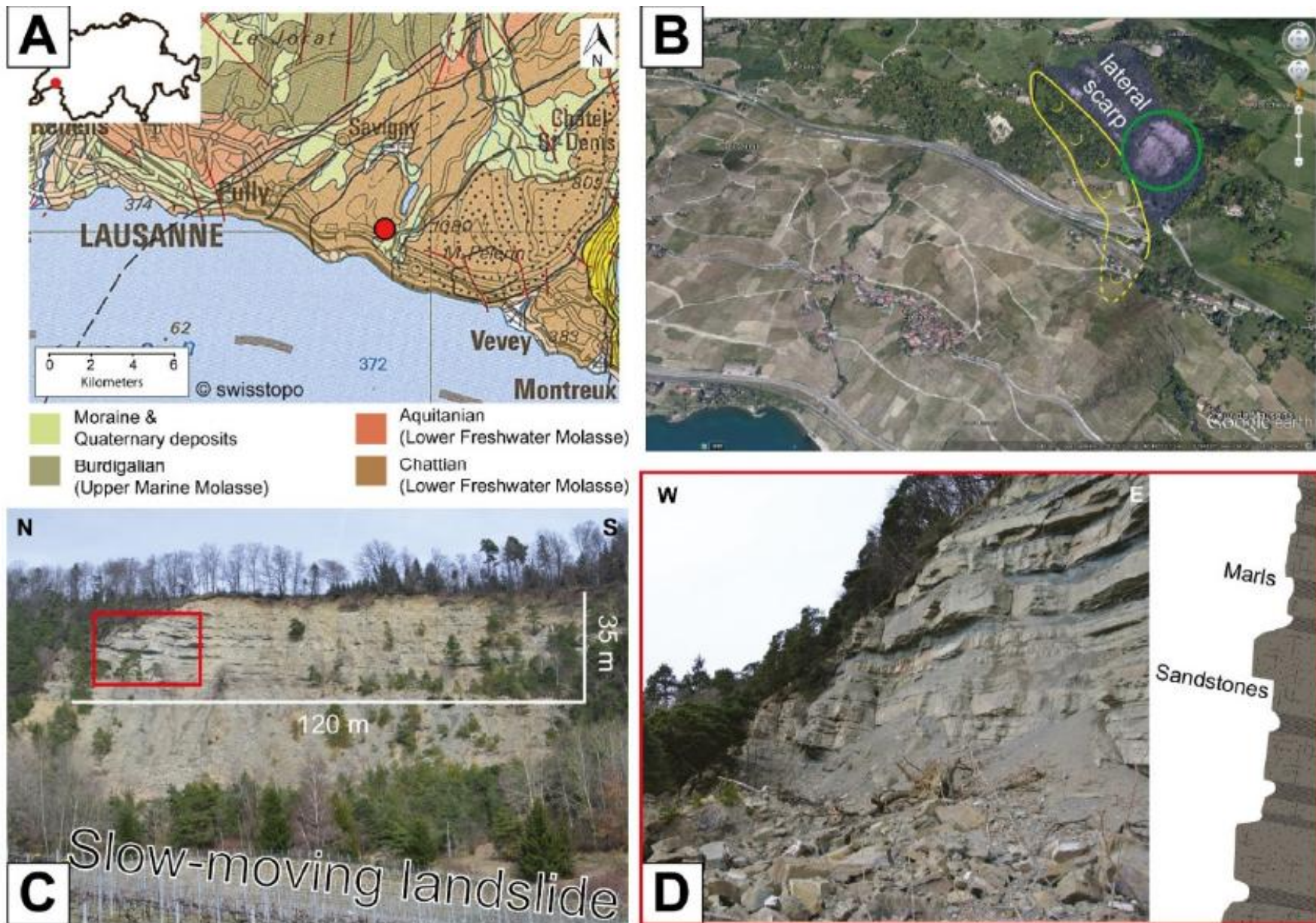


Fig. S22: La Cornalle, Lausanne, CH - Miocene sandstone-marl – Group 3

From Carrea, D.; Abellan, A.; Derron, M.-H.; Gauvin, N.; Jaboyedoff, M. MATLAB Virtual Toolbox for Retrospective Rockfall Source Detection and Volume Estimation Using 3D Point Clouds: A Case Study of a Subalpine Molasse Cliff. *Geosciences* 2021, 11, 75. <https://doi.org/10.3390/geosciences11020075>



Fig. S23: La Cornalle, Lausanne, CH - Miocene sandstone-marl – Group 3



Fig. S24: Castellfollit della Roca, Garrotxa Volcanic Field, Catalonia, S – Columnar basalt – Group 3

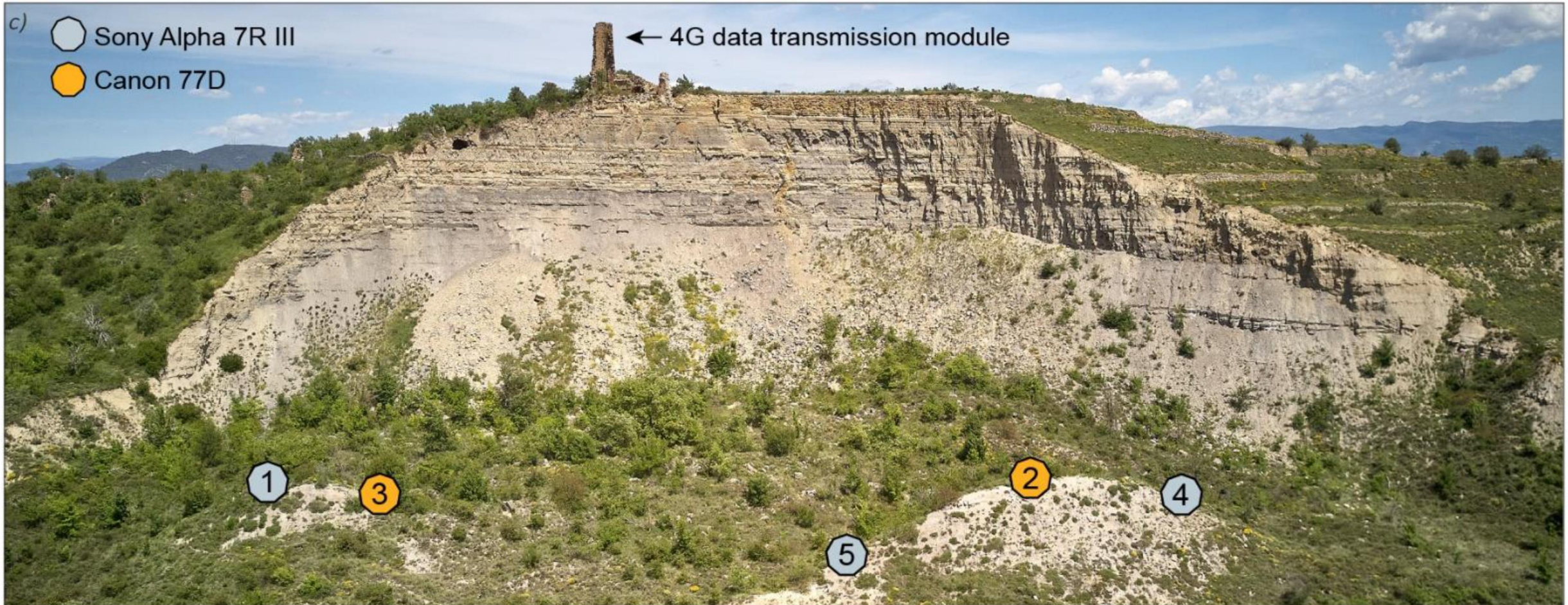
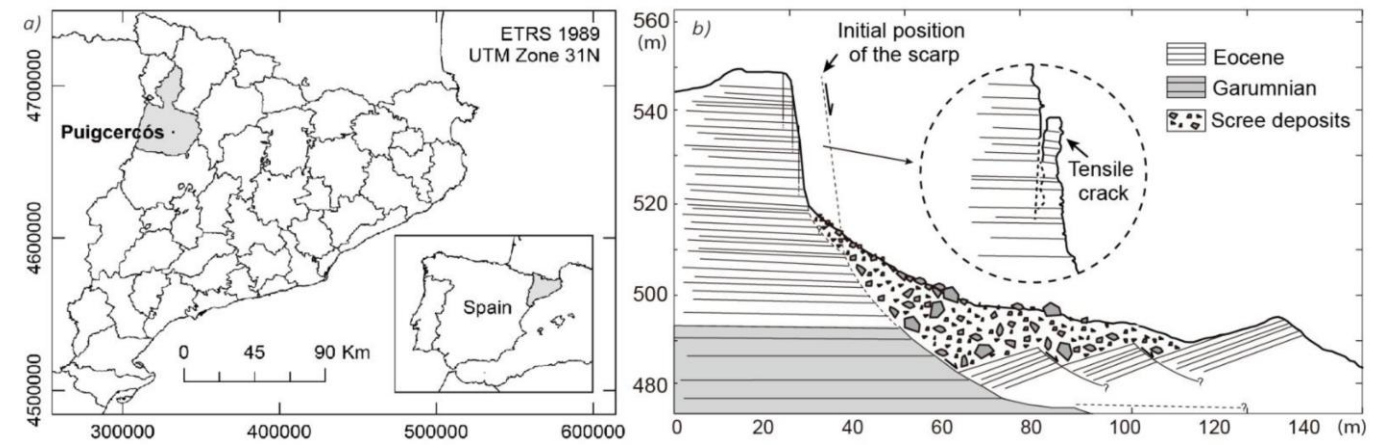
(from Abellán, A., Vilaplana, J. M., Calvet, J., García-Sellés, D., and Asensio, E.: Rockfall monitoring by Terrestrial Laser Scanning – case study of the basaltic rock face at Castellfollit de la Roca (Catalonia, Spain), Nat. Hazards Earth Syst. Sci., 11, 829–841, <https://doi.org/10.5194/nhess-11-829-2011>, 2011)



Fig. S25: Castellfollit della Roca, Garrotxa Volcanic Field, Catalonia, S – Columnar basalt – Group 3

Fig. S26: Puigcercós, Pallars Jussà, Catalonia, S - Eocene marl-sandstone-clay – Group 3

(from Blanch, X.; Eltner, A.; Guinau, M.; Abellan, A. Multi-Epoch and Multi-Imagery (MEMI) PhotogrammetricWorkflow for Enhanced Change Detection Using Time-Lapse Cameras. Remote Sens. 2021, 13, 1460. <https://doi.org/10.3390/rs13081460>)





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Fig. S27: Illgraben, Loèche, Valais, CH - Triassic quartzite – Group 3