

Geological map of the Jura Mountains and surroundings 1:500'000 (Enclosure 01)

- Faults in the detached Northern Alpine Foreland**
- Oblique ramp
 - Fault zone (FZ)
 - Inferred fault zone
 - Fault zone with indicated motion
 - Inferred fault zone with presumed motion
 - Fault
 - Inferred fault
 - Fault with indicated motion
 - Inferred fault with presumed motion
 - Major thrust / backthrust (BT)
 - Inferred major thrust / backthrust
 - Minor thrust / backthrust
 - Inferred minor thrust / backthrust
 - Normal fault (NF)
 - Inferred normal fault
- Faults in the pre-Mesozoic basement and autochthonous cover**
- Fault
 - Inferred fault
 - Normal fault zone (NFZ)
 - Normal fault (NF)
 - Inferred normal fault
 - Reverse fault (RF)
 - Major Alpine thrust
 - Inferred major Alpine thrust (system)
 - Limit of main Alpine tectonic unit
- Folds**
- Anticline (A)
 - Inferred anticline
 - Syncline (S)
 - Inferred syncline
- Artificial structure**
- Borehole
 - City
 - Town, village

Era / Period	Epoch	Lithostratigraphic group
Cenozoic	Quaternary	Quaternary
	Tertiary	Tertiary
	Cretaceous	Cretaceous
Jurassic	Upper	Upper Malm
	Middle	Dogger
	Lower	Lias
Triassic	Upper	Upper Malm
	Middle	Muschelkalk
	Lower	Buntsandstein
Palaeozoic	Permian	Permian
	Carboniferous	Carboniferous

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This enclosure belongs to the PhD thesis "The Development of the Jura Fold-and-Thrust Belt: pre-existing Structures and the Formation of Ramps", Marc Schori (2021), University of Fribourg, Fribourg, Switzerland.

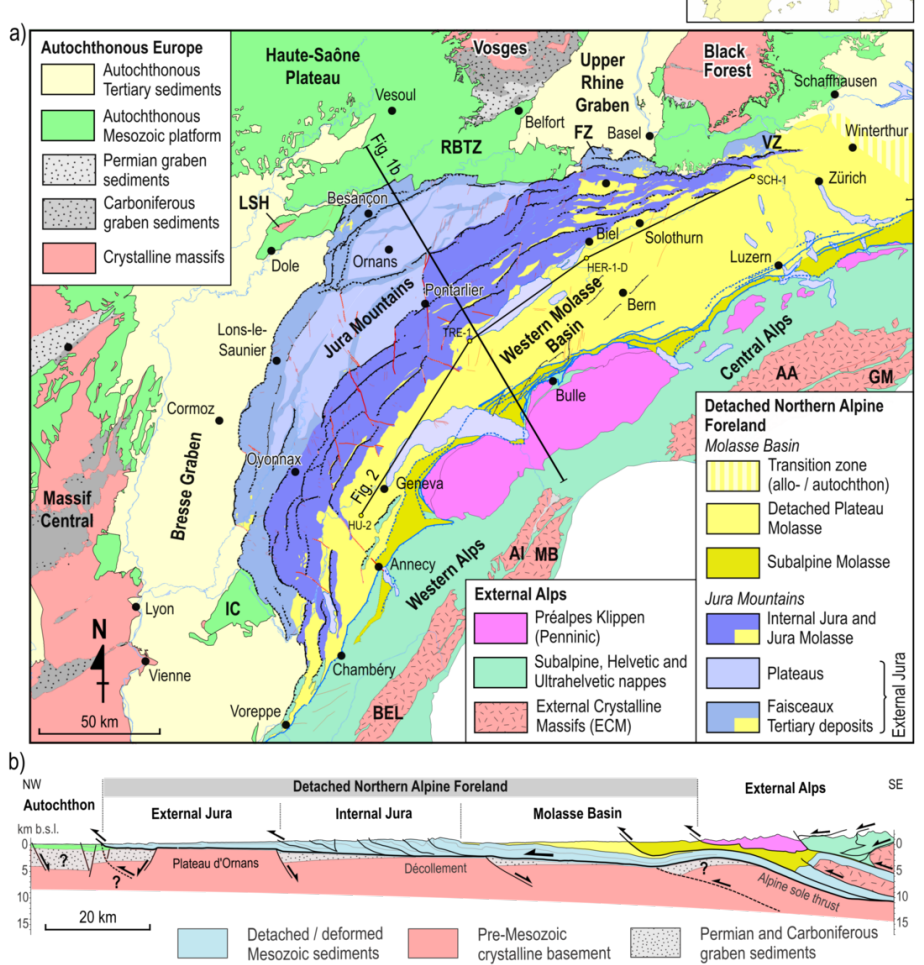


Fig. 1. a) Tectonic overview map of the Jura Mountains and surroundings. b) Regional cross-section modified from Sommaruga et al. (2017). BEL: Bellefleur Massif, MB: Mont Blanc Massif, AI: Aiguilles Rouges Massif, AA: Aar Massif, GM: Gotthard Massif, FZ: Ferret Zone, LSH: La Serre Horst, IC: Ile Crémieu, RBZ: Rhine Bresse Transfer Zone, VZ: Voralpenzone. Boreholes are HU-2: Humilly-2, TRE-1: Treyvogues-1, HER-1-D: Hemrigen-1-D and SCH-1: Schafisheim-1.

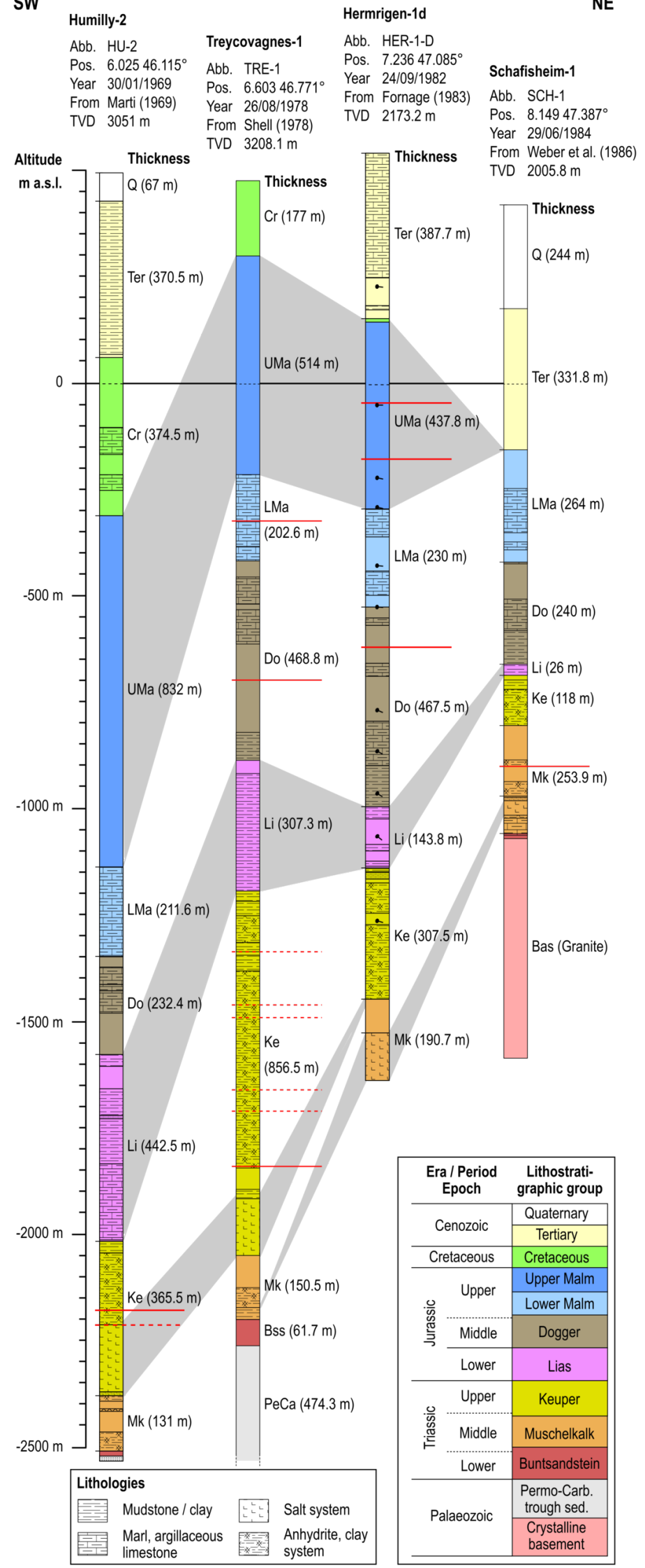


Fig. 2. Selected boreholes within the Molasse Basin (see Fig. 1a for locations) illustrating thickness and altitude changes of lithological units from SW to NE, along the southern border of the Jura fold-and-thrust belt. The true vertical thickness is given in brackets. Lithostratigraphic groups are Q: Quaternary, Ter: Tertiary, Cr: Cretaceous, UMa: Upper Malm, LMa: Lower Malm, Do: Dogger, Li: Lias, Ke: Keuper, Mk: Muschelkalk, Bas: Buntsandstein, PeCa: Permian-Carboniferous sediments, Bas: crystalline basement.