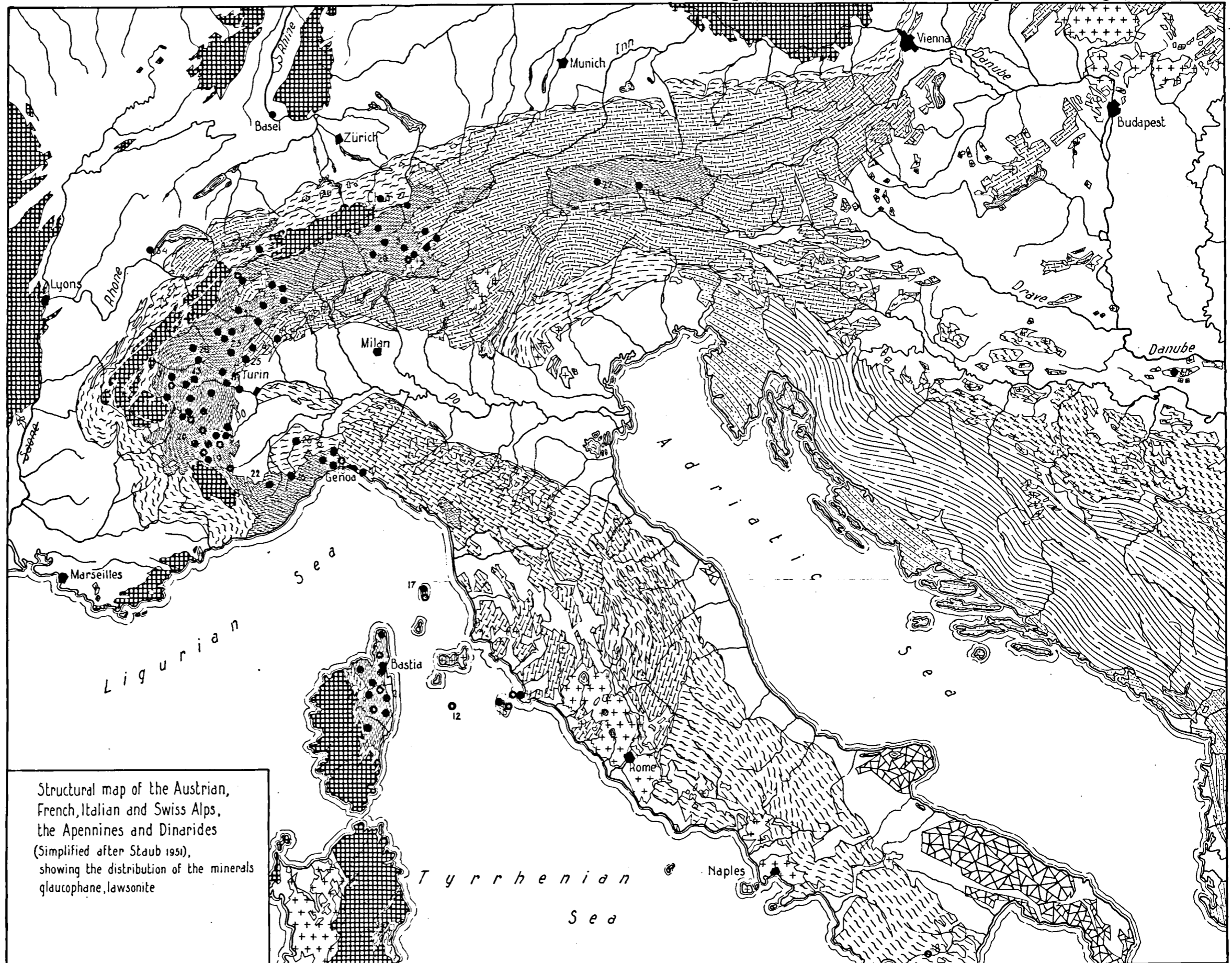


N.B. for glaucophane read:
glaucophane and kindred
sodium-amphiboles

1. Val de Bagnes
2. Furcella, Maloggia
3. Avers, Suretta Nappe
4. Val Tournanche
5. Chisten Pas
6. Olba, Mnt Tobbio
7. Val di Cogne
8. Valle di Lanzo
9. Val Po
10. Bargone, Sestri Levante
11. Capo Argentario
12. Monte Cristo island
13. Val Susa
14. Gross Venediger
15. Genoa
16. Giglio island
17. Gorgona island
18. San Severino Lucano
19. Val Stura di Demonte
20. Val Maira & Val Varaita
21. Corsica
22. Ligurian Alps
23. Gran Paradiso
24. Susten (perhaps erratic)
25. Cuorgné
26. Bormida
27. Val Aurine
28. Massif of Vanoise
29. Queyras
30. Frusca Gora
31. Briançon
32. Val Aosta
33. Ivrea
34. Genève (erratic)

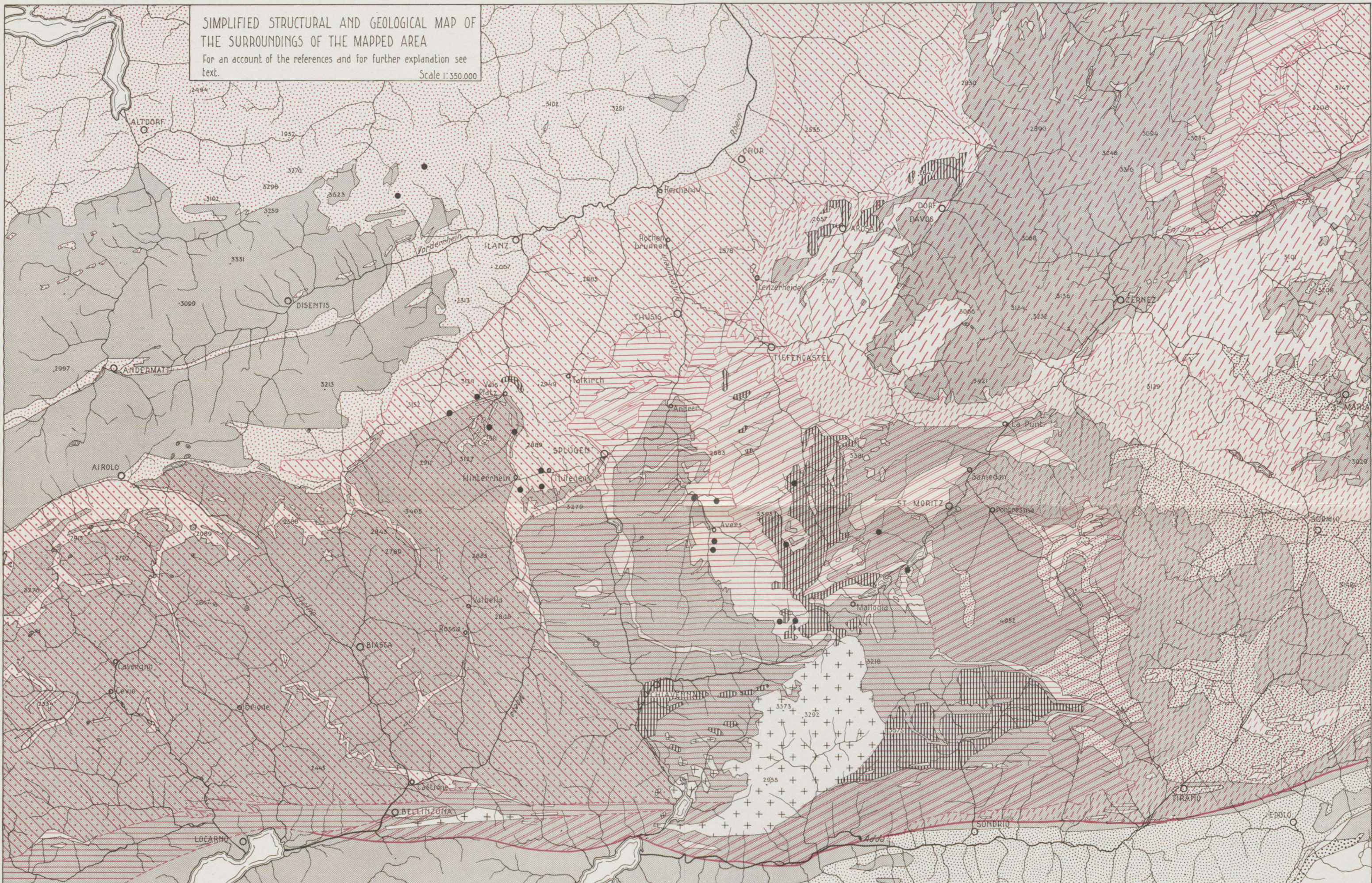


Structural map of the Austrian, French, Italian and Swiss Alps, the Apennines and Dinarides (Simplified after Staub 1951), showing the distribution of the minerals glaucophane, lawsonite






Autochthonous Central Massifs, Foreland Massifs	Units of Belluno	Inner Hellenides	East Italian blocks
Pennides, Briançonnais zone, Ubaye nappe and Embrunais region	Western Dinarides	Toscanides, Ligurides and Umbrian Units	Late igneous rocks and sites of volcanic activity
Austrides (Grisonides, Tirolides), Préalps, south Pannonian zone, Fünfkirchen mountains etc.	Middle Dinarides	The Abruzzen block and its southern extensions, Molise zone and Molasse of the Northern Apennines and the Abruzzen block	<u>Mineral locations</u>
Helvetides together with Flysch zones of the Eastern Alps and of the Carpathians	Inner Dinarides, a.o. the Bosnian ophiolite graben		○ Lawsonite
			● Glaucophane

SIMPLIFIED STRUCTURAL AND GEOLOGICAL MAP OF THE SURROUNDINGS OF THE MAPPED AREA








For an account of the references and for further explanation see text.
Scale 1:350.000



LITHOLOGICAL DIFFERENTIATION

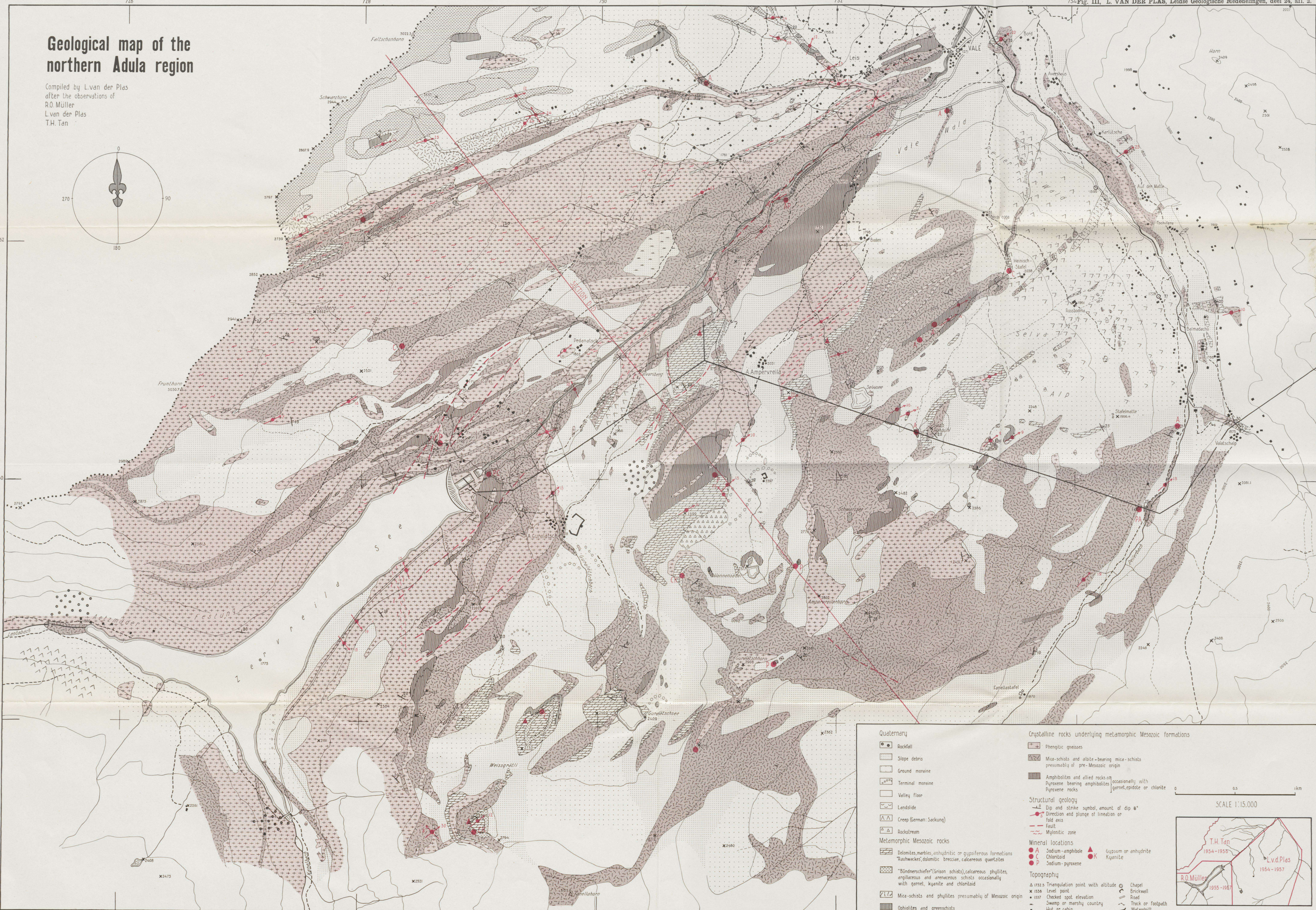
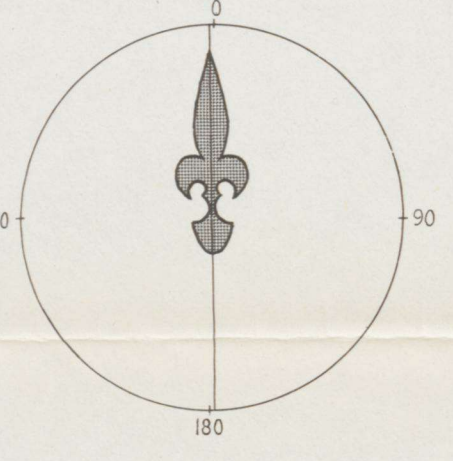
- | | |
|--|--|
|  Late igneous rocks |  Metamorphic Palaeozoic sediments |
|  Ophiolites and allied rocks |  Metamorphic rocks of unknown age, viz. gneisses, mica-schists, amphibolites and allied rocks, irrespective of their origin |
|  Mesozoic sediments | |

STRUCTURAL UNITS

- | | | |
|---|--|---|
|  Helvetic zone; nappes, parautochthon and autochthon |  Lower Austrides and the highest Pennides |  Sodium-amphiboles |
|  Lower Pennides |  Middle Austrides | |
|  Middle and Upper Pennides |  Upper Austrides | |

Geological map of the northern Adula region

Compiled by L. van der Plas
after the observations of
R.O. Müller
L. van der Plas
T.H. Tan



<p>Quaternary</p> <ul style="list-style-type: none"> Rockfall Slope debris Ground moraine Terminal moraine Valley floor Landslide Creep (German: Sackung) Rockstream <p>Metamorphic Mesozoic rocks</p> <ul style="list-style-type: none"> Dolomites, marbles, anhydritic or gypsiferous formations, "Rauhwecker", dolomitic brecciae, calcareous quartzites "Bündnerschiefer" (Grison schists), calcareous phyllites, argillaceous and arenaceous schists occasionally with garnet, kyanite and chloritoid Mica-schists and phyllites presumably of Mesozoic origin Ophiolites and greenschists 	<p>Crystalline rocks underlying metamorphic Mesozoic formations</p> <ul style="list-style-type: none"> Phengitic gneisses Mica-schists and albite-bearing mica-schists presumably of pre-Mesozoic origin Amphibolites and allied rocks, occasionally with Pyroxene bearing amphibolites <p>Structural geology</p> <ul style="list-style-type: none"> Dip and strike symbol, amount of dip α° Direction and plunge of lineation or fold axis Fault Mylonitic zone <p>Mineral locations</p> <ul style="list-style-type: none"> Sodium-amphibole Chloritoid Sodium-pyroxene Gypsum or anhydrite Kyanite <p>Topography</p> <ul style="list-style-type: none"> Triangulation point with altitude Level point Checked spot elevation Swamp or marshy country Hut or cabin Chapel Brickwall Road Track or footpath Waterdrift
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SCALE 1:15,000

