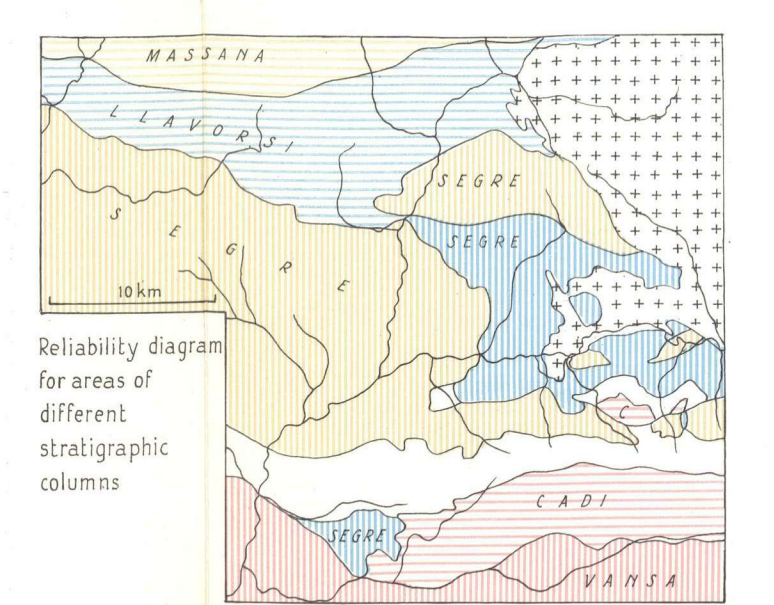
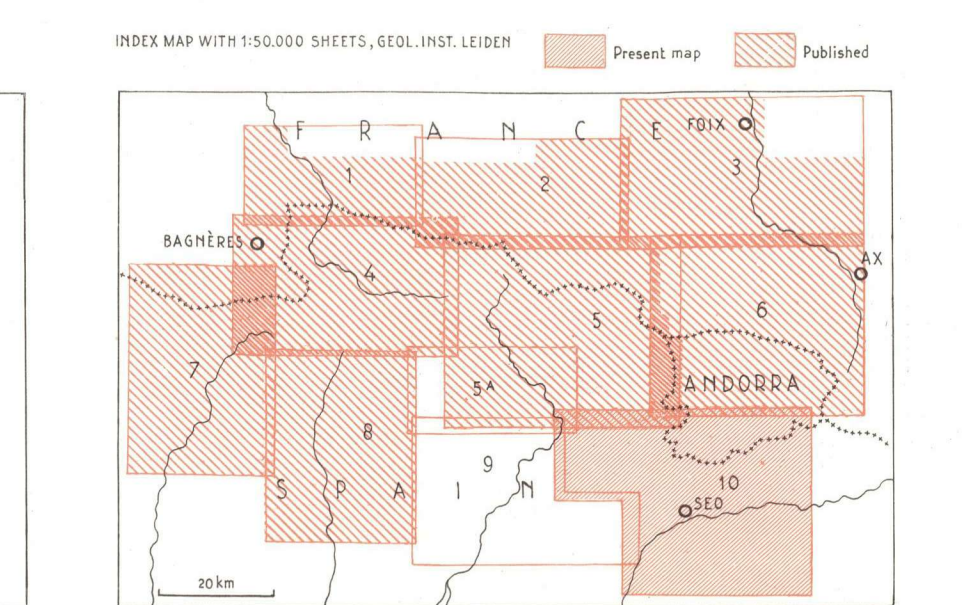


Geological legend table with columns for geological period (Quaternary, Tertiary, Cretaceous, Jurassic, Triassic, Permian, Carboniferous, Devonian, Silurian, Cambro-Ordovician) and corresponding geological units with their lithological descriptions.

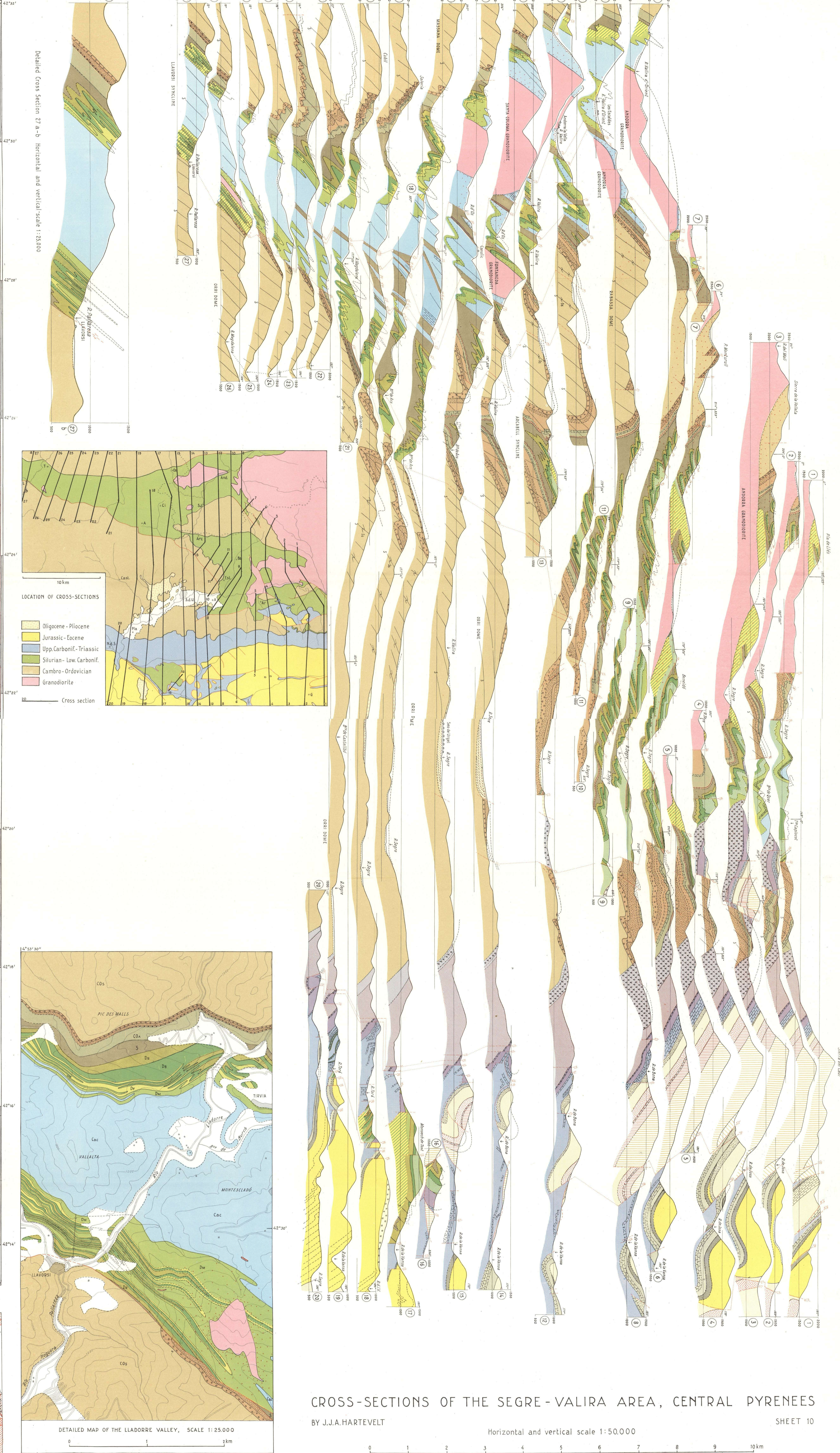
Legend for late Carboniferous intrusives (Quartz dyke, Quartz-porphry dyke, Aplitic dyke, Granodiorite-porphry dyke, Biotite-granodiorite) and economic deposits (Mines, Abandoned mines, Quarries).



Publicado de acuerdo con el Instituto Geológico y Minero de España, C.S.G. N.º 221 15-4-1969. GEOLOGICAL MAP OF THE CENTRAL PYRENEES. Published by the Geological Institute Leiden University, 1969. Editors: L.L.de Sitter, H.J.Zwart, and J.F.Savage. Map and text prepared by J.J.A.Hartvelt.



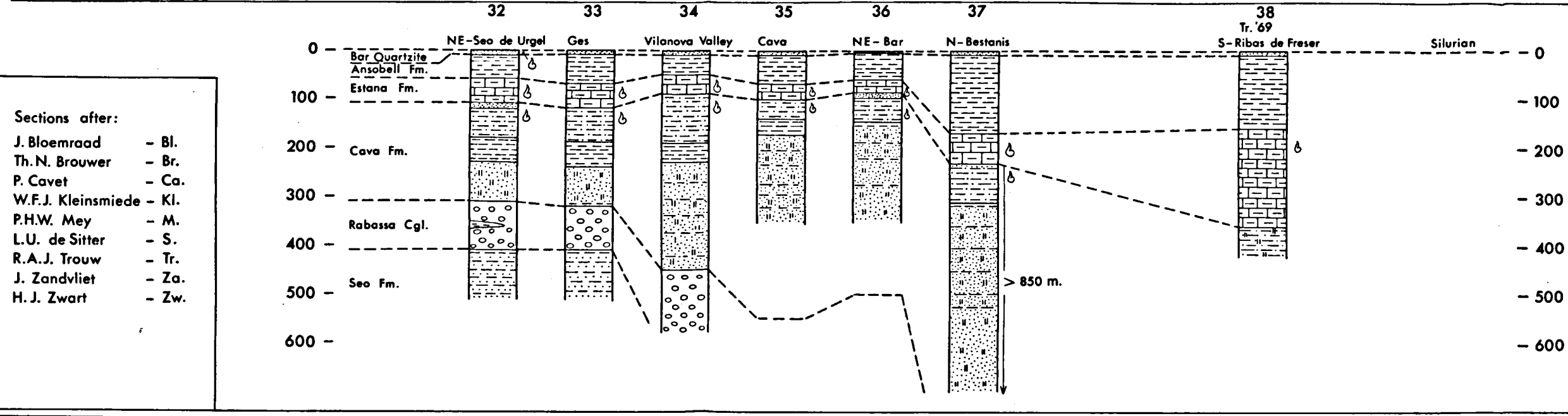
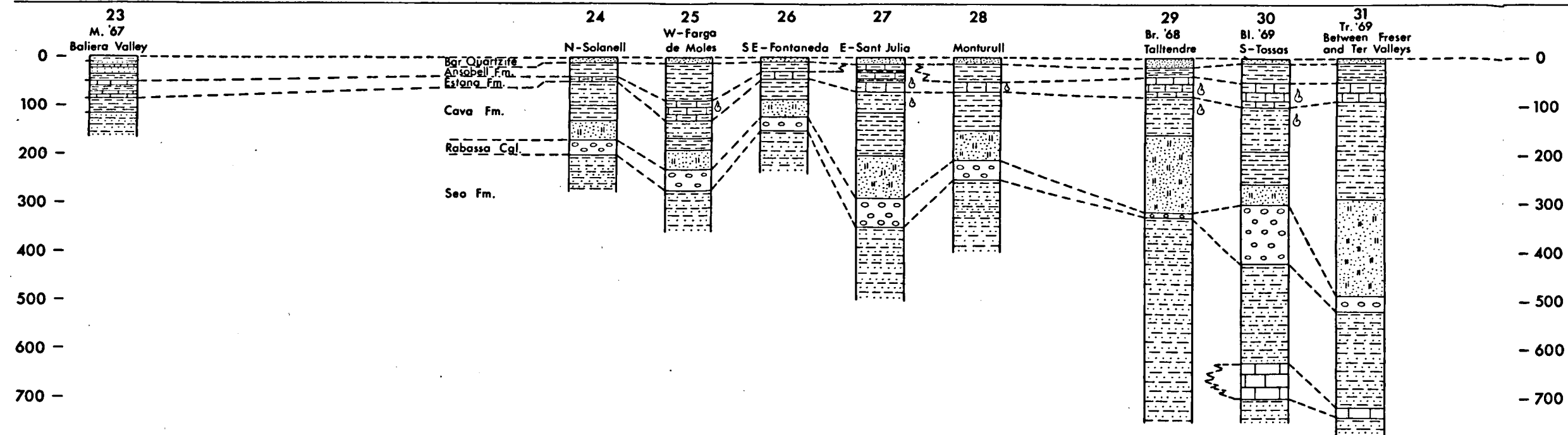
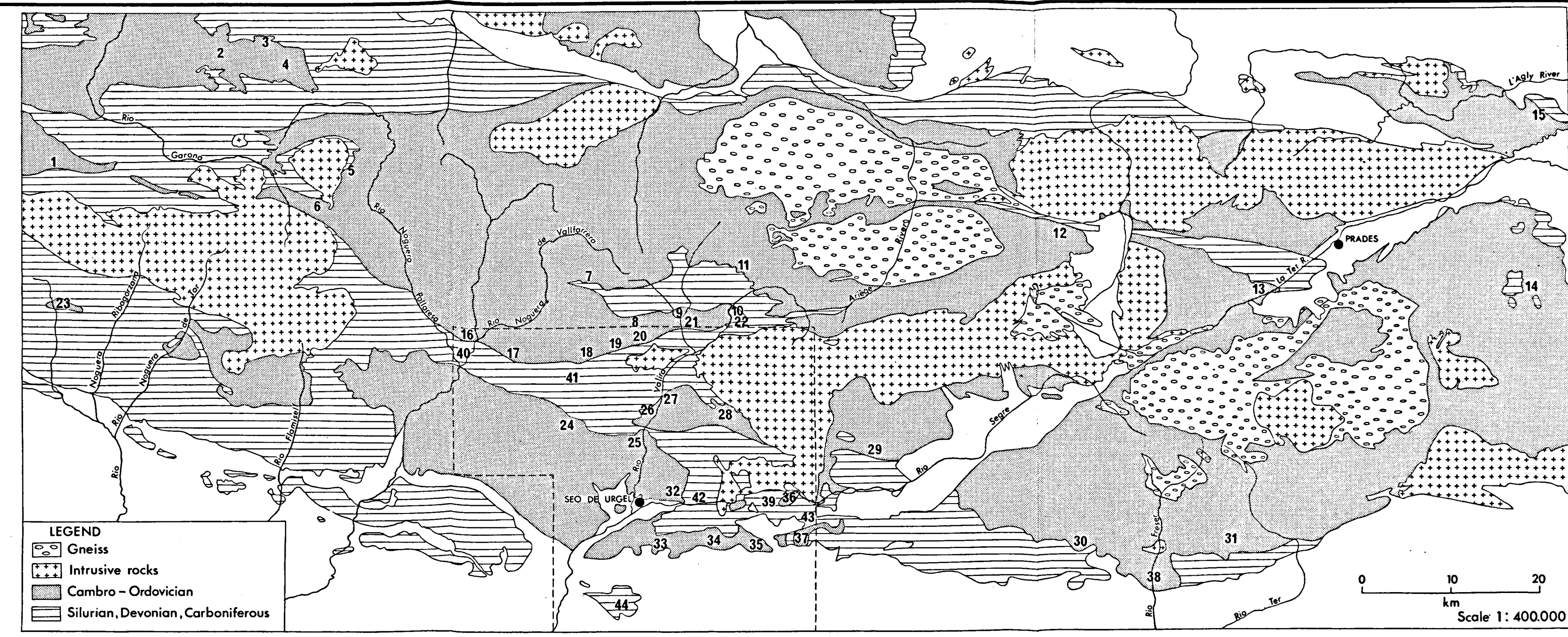
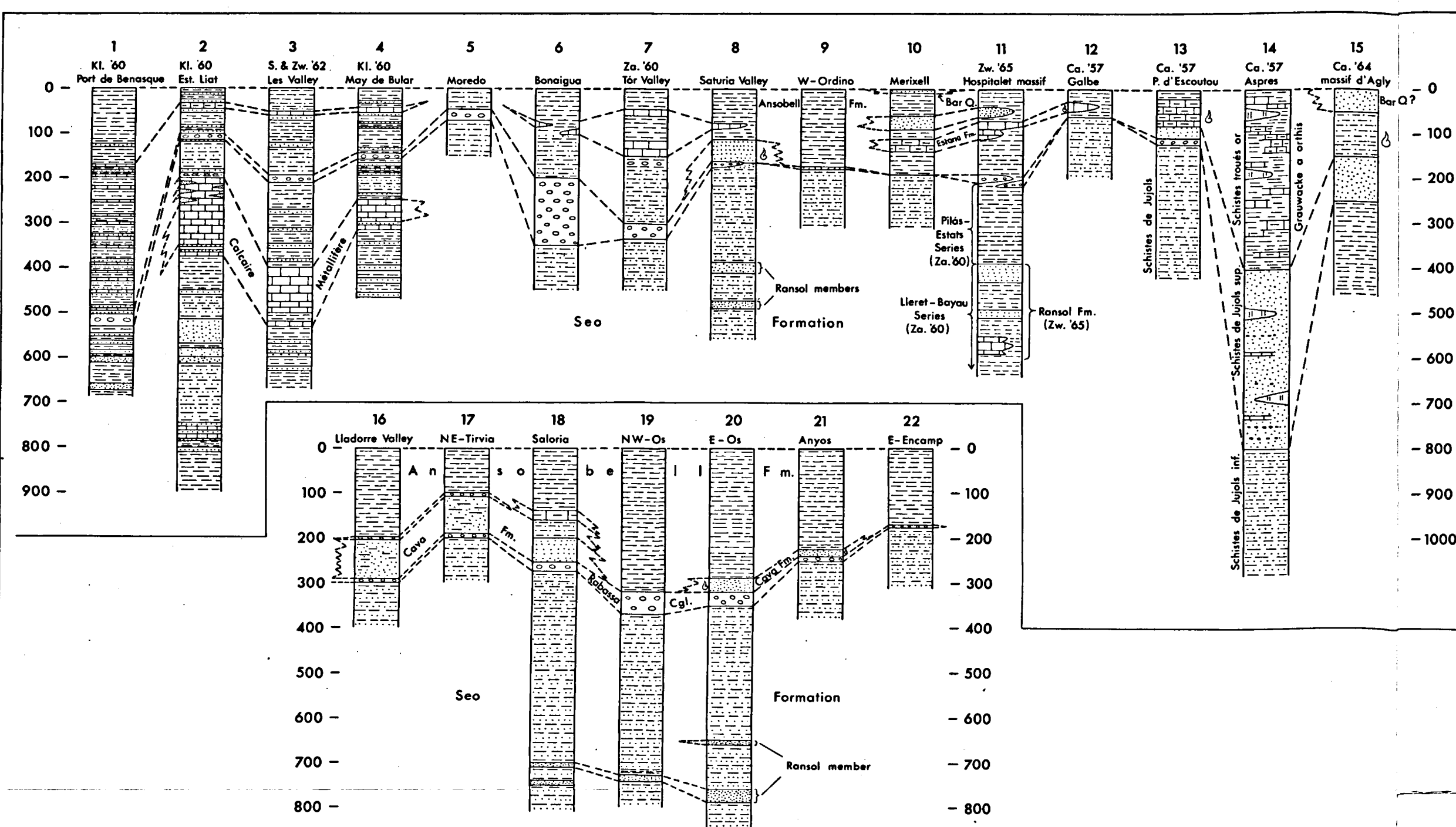
Geology by: Bo = K.J.Boersma, Br = H.B.Boerboom, Bv = Th.N.Booyer, D = Th.F.J. Desnooghe, Di = D. Diederix, G = B. Guimard, H = J.J.A. Hartvelt, R = J.J. Robert, V = G.J. Verspeij, W = H. van Wees, Za = J.J. Zandvliet, Zw = H.J. Zwart.



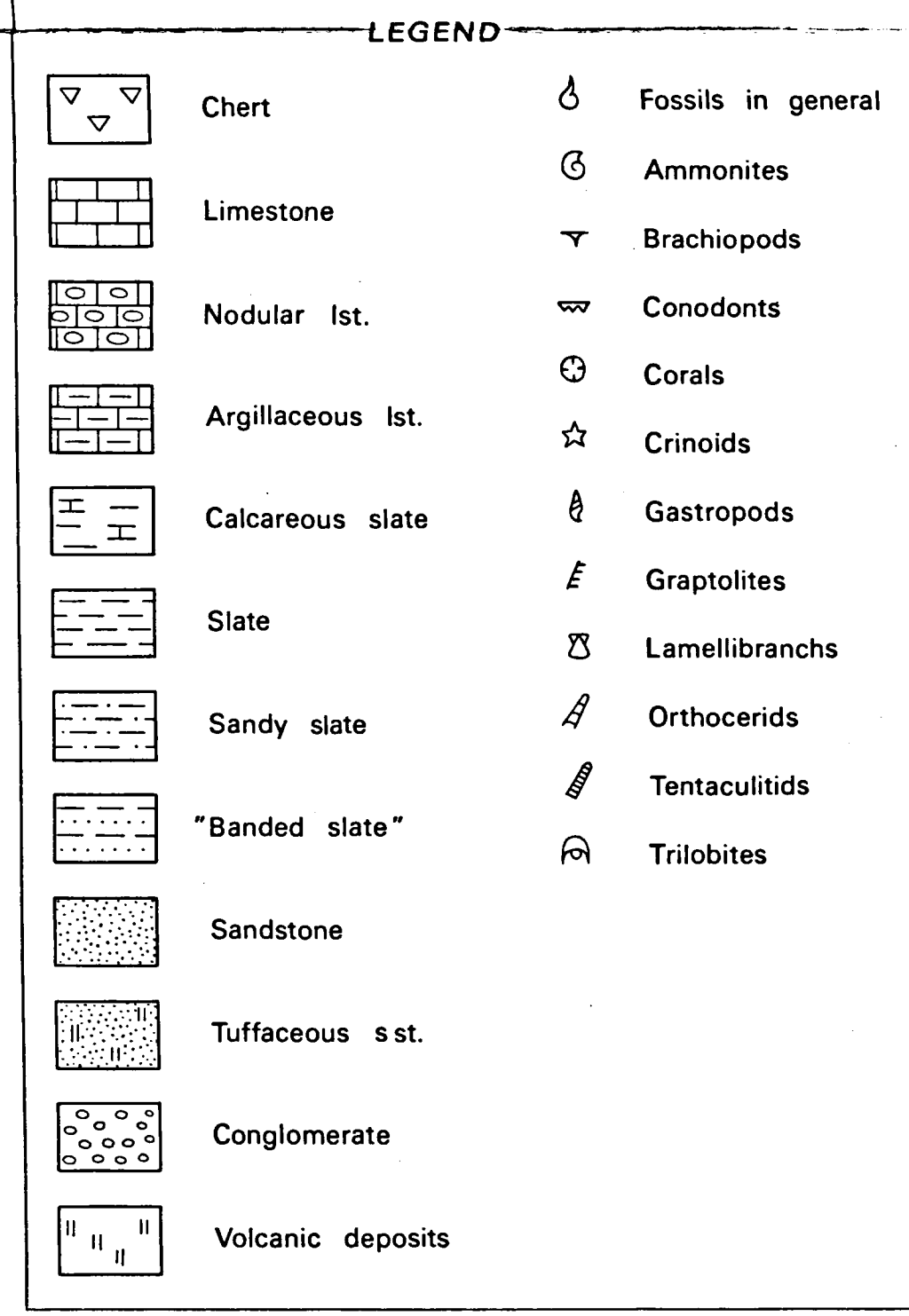
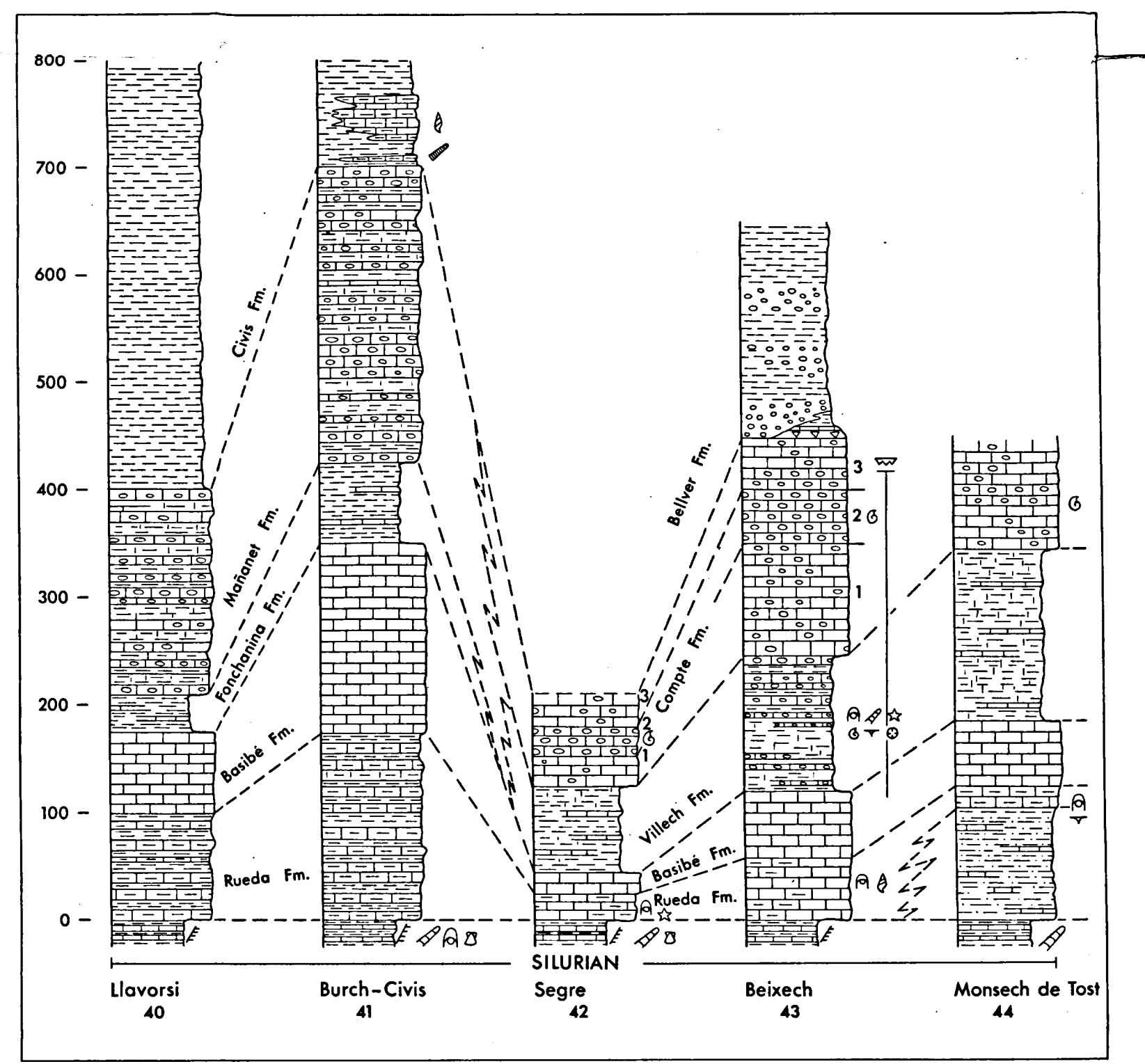
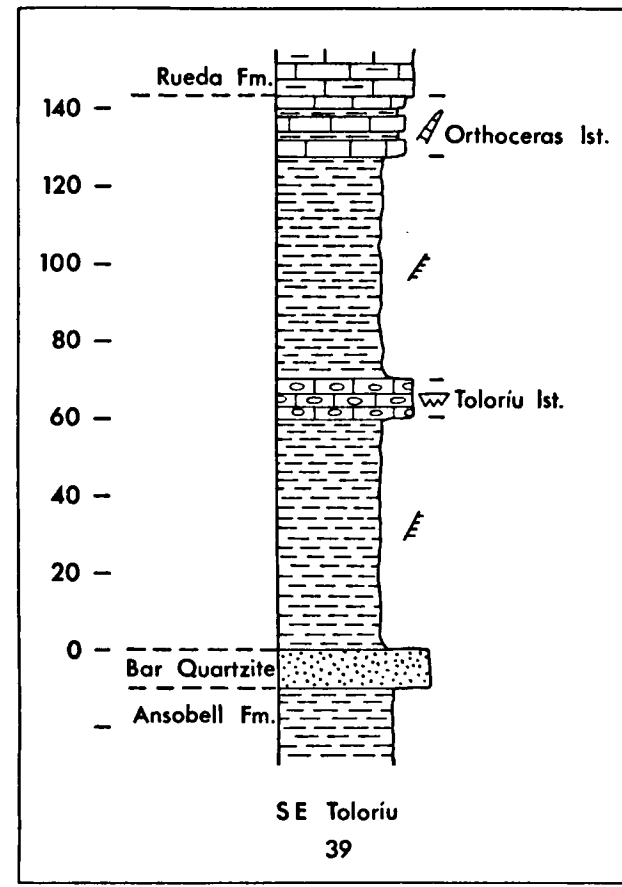
CROSS-SECTIONS OF THE SEGRE-VALIRA AREA, CENTRAL PYRENEES. BY J.J.A.HARTEVELT. Horizontal and vertical scale 1:50,000. SHEET 10.



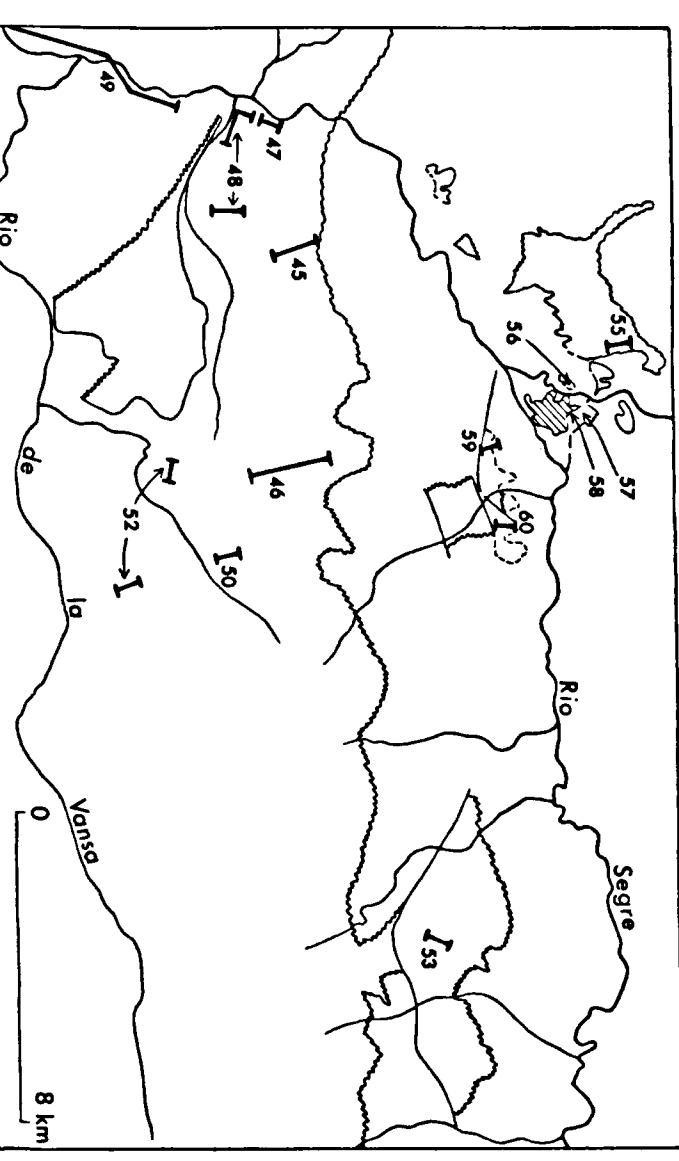
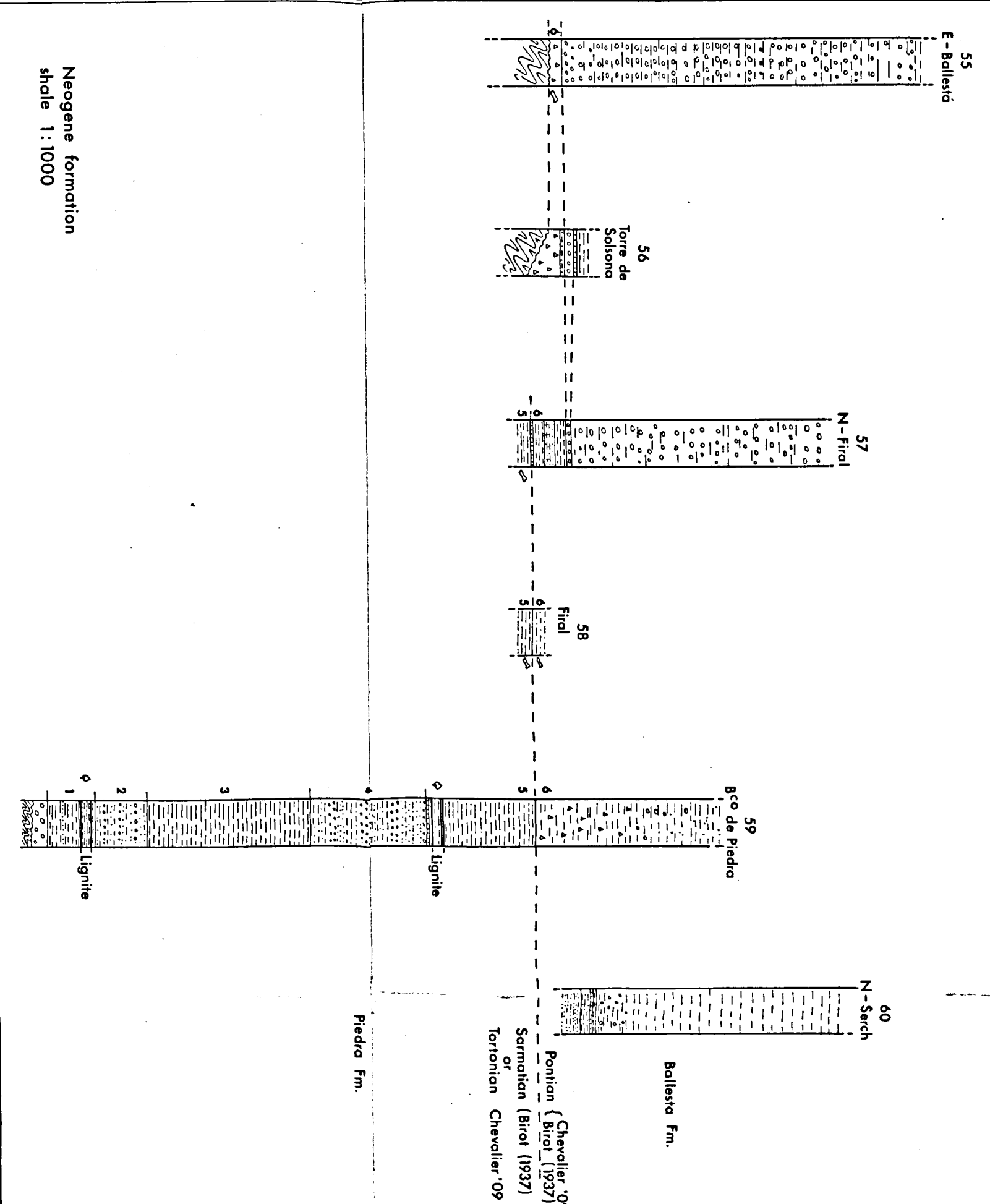
# LITHOSTRATIGRAPHIC SECTIONS OF PRE-HERCYNIAN FORMATIONS



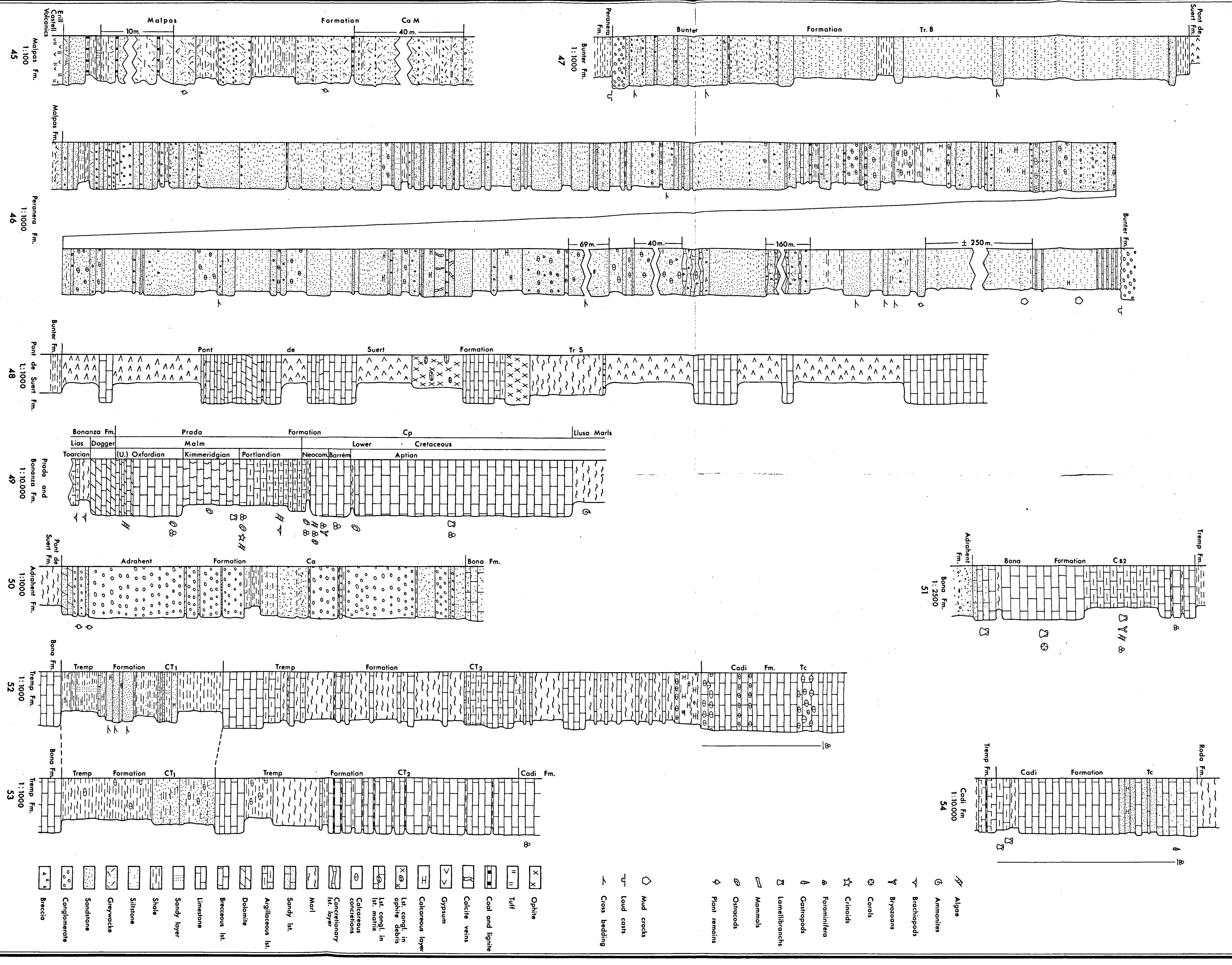
Sections after:  
 J. Bloemraad - Bl.  
 Th. N. Brouwer - Br.  
 P. Cavet - Ca.  
 W.F.J. Kleinsmiede - Kl.  
 P.H.W. Mey - M.  
 L.U. de Sitter - S.  
 R.A.J. Trouw - Tr.  
 J. Zandvliet - Za.  
 H. J. Zwart - Zw.



# LITHOSTRATIGRAPHIC SECTIONS OF POST-HERCYNIAN FORMATIONS

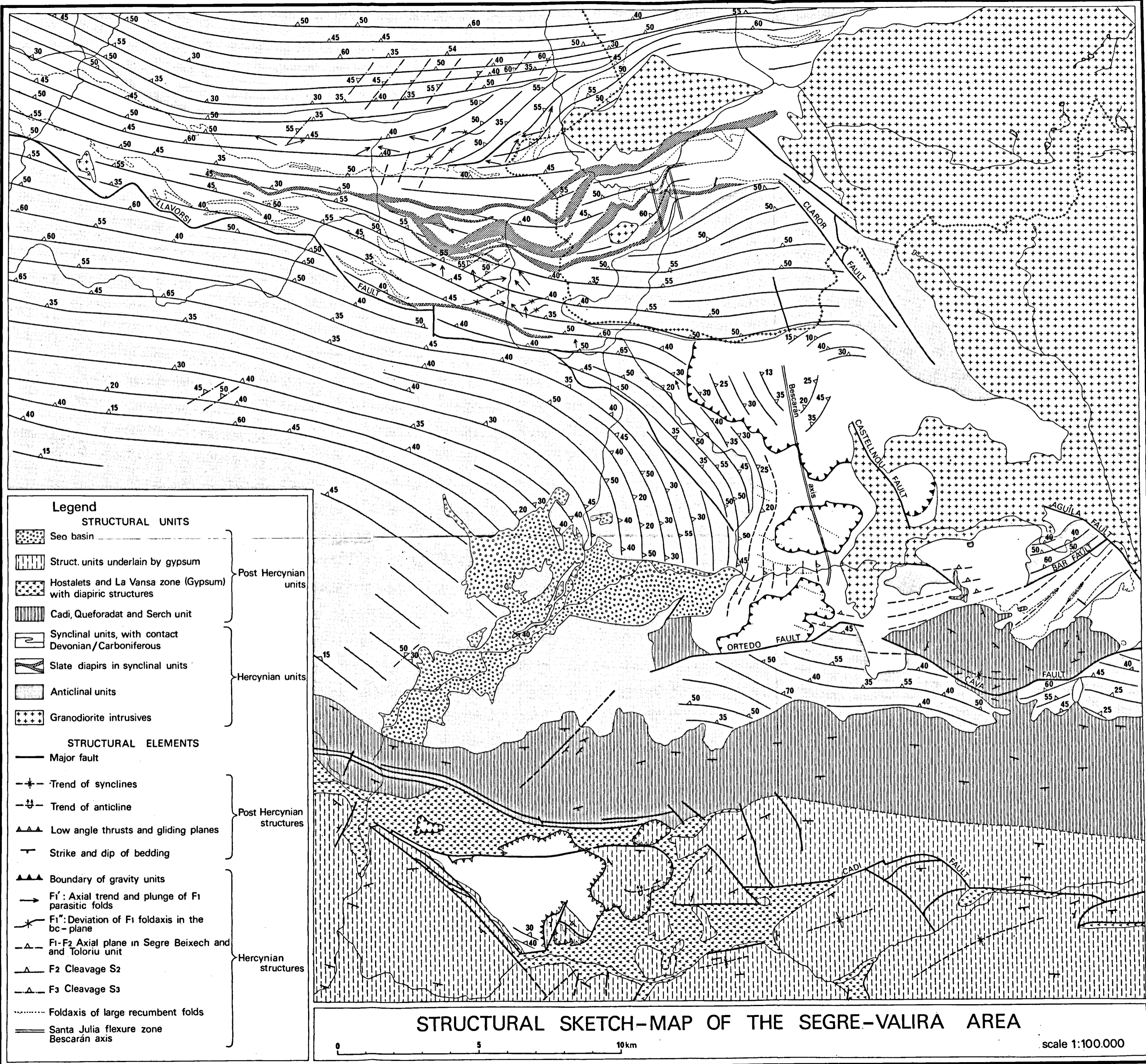


Section 45 after Diederix 1963  
 46 partly after Diederix (1963)  
 47 partly after Peysberns (1968)  
 48 after Diederix (1963)  
 49 after Boissvain (1934) and Diederix (1963)  
 50 partly after Diederix (1963)  
 51 after Boissvain (1934)  
 52 partly after Diederix (1963)  
 53 after Boissvain (1934)  
 54 partly after Chevalier (1909)  
 55 partly after Chevalier (1909)  
 56 partly after Chevalier (1909)  
 57 partly after Chevalier (1909)  
 58 after Chevalier (1909)  
 59 partly after Chevalier (1909)  
 60 partly after Diederix (1963)



- ⊕ Algae
- ⊖ Ammonites
- ⊗ Brachiopods
- ⊘ Bryozoa
- ⊙ Corals
- ☆ Crinoids
- ⊕ Foraminifera
- ⊖ Gastropods
- ⊗ Lamellibranchs
- ⊘ Mammals
- ⊙ Ostrocoods
- ⊕ Plant remains
- ⊖ Mud cracks
- ⊗ Lard casts
- ⊘ Cross bedding
- ⊙ Ophite
- ⊖ Tuff
- ⊗ Coal and lignite
- ⊘ Calcite veins
- ⊙ Gypsum
- ⊕ Calcareous layer
- ⊖ lat. congl. in ophite debris
- ⊗ lat. congl. in lat. matrix
- ⊘ Calcareous concretions
- ⊙ Conglomerate 1st. layer
- ⊕ Marl
- ⊖ Sandy 1st.
- ⊗ Agillaceous 1st.
- ⊘ Dolomite
- ⊙ Breccious 1st.
- ⊕ Silstone
- ⊖ Shale
- ⊗ Sandy layer
- ⊘ Limestone
- ⊙ Greywacke
- ⊕ Sandstone
- ⊖ Conglomerate
- ⊗ Breccia





**Legend**

**STRUCTURAL UNITS**

- Seo basin
- Struct. units underlain by gypsum
- Hostalets and La Vansa zone (Gypsum) with diapiric structures
- Cadi, Queforadat and Serch unit
- Synclinal units, with contact Devonian/Carboniferous
- Slate diapirs in synclinal units
- Anticlinal units
- Granodiorite intrusives

**STRUCTURAL ELEMENTS**

- Major fault
- Trend of synclines
- Trend of anticline
- Low angle thrusts and gliding planes
- Strike and dip of bedding
- Boundary of gravity units
- F1: Axial trend and plunge of F1 parasitic folds
- F1': Deviation of F1 foldaxis in the bc-plane
- F1-F2 Axial plane in Segre Beixech and Toloriu unit
- F2 Cleavage S2
- F3 Cleavage S3
- Foldaxis of large recumbent folds
- Santa Julia flexure zone
- Bescaran axis

**STRUCTURAL SKETCH-MAP OF THE SEGRE-VALIRA AREA**

0 5 10km

scale 1:100.000