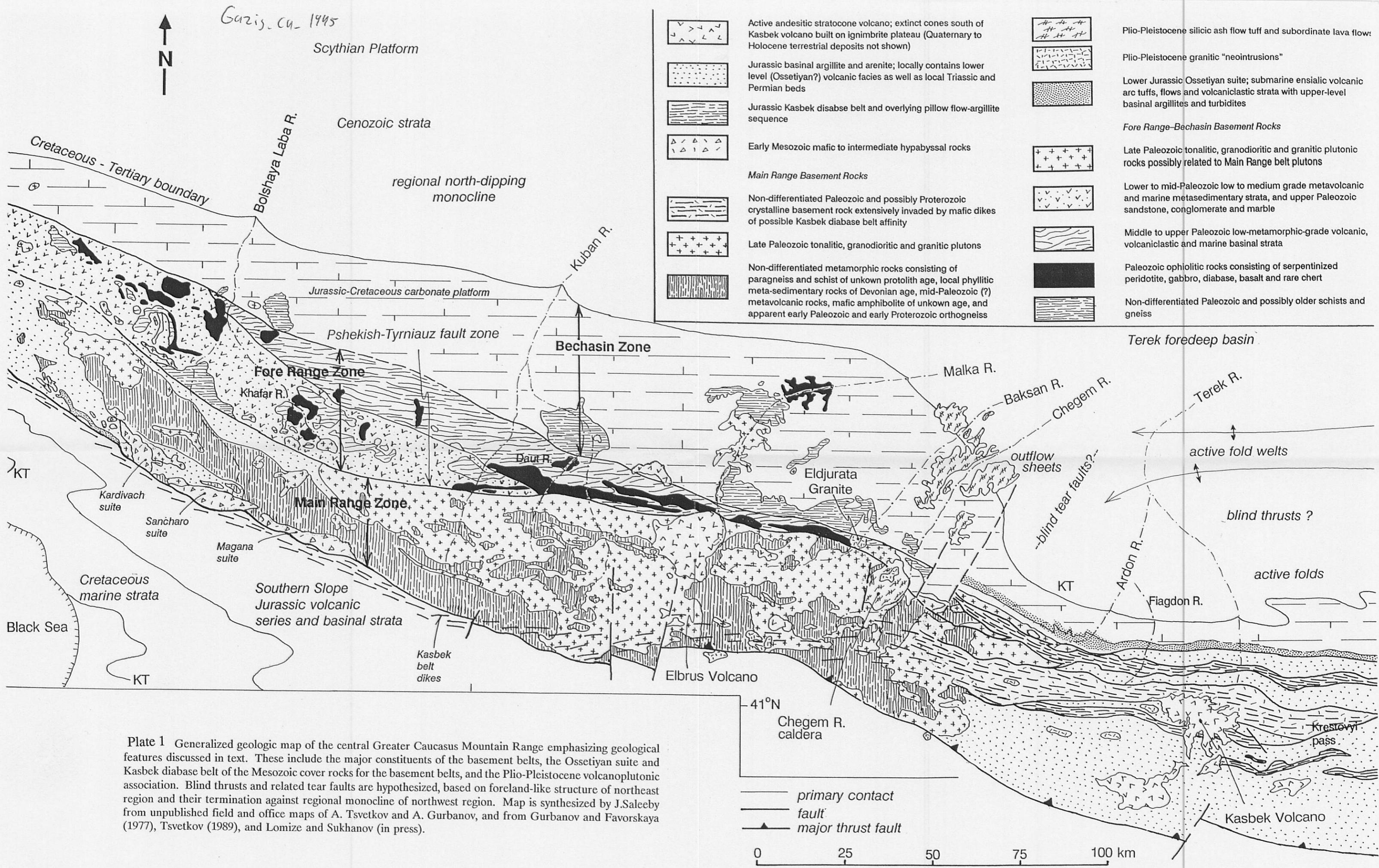


Gazis, ca. 1945



Scythian Platform



- Active andesitic stratocone volcano; extinct cones south of Kasbek volcano built on ignimbrite plateau (Quaternary to Holocene terrestrial deposits not shown)
- Jurassic basal argillite and arenite; locally contains lower level (Ossetiyan?) volcanic facies as well as local Triassic and Permian beds
- Jurassic Kasbek disabse belt and overlying pillow flow-argillite sequence
- Early Mesozoic mafic to intermediate hypabyssal rocks
- Main Range Basement Rocks**
- Non-differentiated Paleozoic and possibly Proterozoic crystalline basement rock extensively invaded by mafic dikes of possible Kasbek diabase belt affinity
- Late Paleozoic tonalitic, granodioritic and granitic plutons
- Non-differentiated metamorphic rocks consisting of paragneiss and schist of unknown protolith age, local phyllitic meta-sedimentary rocks of Devonian age, mid-Paleozoic (?) metavolcanic rocks, mafic amphibolite of unknown age, and apparent early Paleozoic and early Proterozoic orthogneiss
- Plio-Pleistocene silicic ash flow tuff and subordinate lava flow
- Plio-Pleistocene granitic "neointrusions"
- Lower Jurassic Ossetiyan suite; submarine ensialic volcanic arc tuffs, flows and volcanoclastic strata with upper-level basal argillites and turbidites
- Fore Range-Bechasin Basement Rocks**
- Late Paleozoic tonalitic, granodioritic and granitic plutonic rocks possibly related to Main Range belt plutons
- Lower to mid-Paleozoic low to medium grade metavolcanic and marine metasedimentary strata, and upper Paleozoic sandstone, conglomerate and marble
- Middle to upper Paleozoic low-metamorphic-grade volcanic, volcanoclastic and marine basal strata
- Paleozoic ophiolitic rocks consisting of serpentinized peridotite, gabbro, diabase, basalt and rare chert
- Non-differentiated Paleozoic and possibly older schists and gneiss

Plate 1 Generalized geologic map of the central Greater Caucasus Mountain Range emphasizing geological features discussed in text. These include the major constituents of the basement belts, the Ossetiyan suite and Kasbek diabase belt of the Mesozoic cover rocks for the basement belts, and the Plio-Pleistocene volcanoplutonic association. Blind thrusts and related tear faults are hypothesized, based on foreland-like structure of northeast region and their termination against regional monocline of northwest region. Map is synthesized by J.Saleeby from unpublished field and office maps of A. Tsvetkov and A. Gurbanov, and from Gurbanov and Favorskaya (1977), Tsvetkov (1989), and Lomize and Sukhanov (in press).

- primary contact
- fault
- major thrust fault

