

Maps and metadata

- Geology
 - Bedrock geology of Sweden
 - Geotectonic map of Sweden
 - Geological maps, 1:50,000 scale
 - Geological maps, regional scale
 - Bedrock geology data
- Geophysics
- Geochemistry and boulders

1. Archaean and Lapponian–Jatulian5. PreC, SW Sweden

Gneiss and metasediment

Youngest granite

2. Precambrian, Svecofennian

Basalt

Younger granite

Dolerite

Gabbro

Jotnian sandstone

Sediment

Granite, Rapakivi suite

Metavolcanic

Younger granite

Metasediment

Oldest granite

Ortogneiss

Gabbroid and mafic metavolcanic rocks

Hyperite

Felsic and intermediate metavolcanic rocks

Oldest granite

Metasediment

6. Caledonides

Upper allochton, Köli

3. Precambrian, Transscandinavian Igneous Belt

Dala porphyry

Upper allochton, Seve

Dala granite

Middle allochton

Småland-Värmland, Rätan, Sorsele granite

Autochton and lower allochton

4. Precambrian, Blekinge region

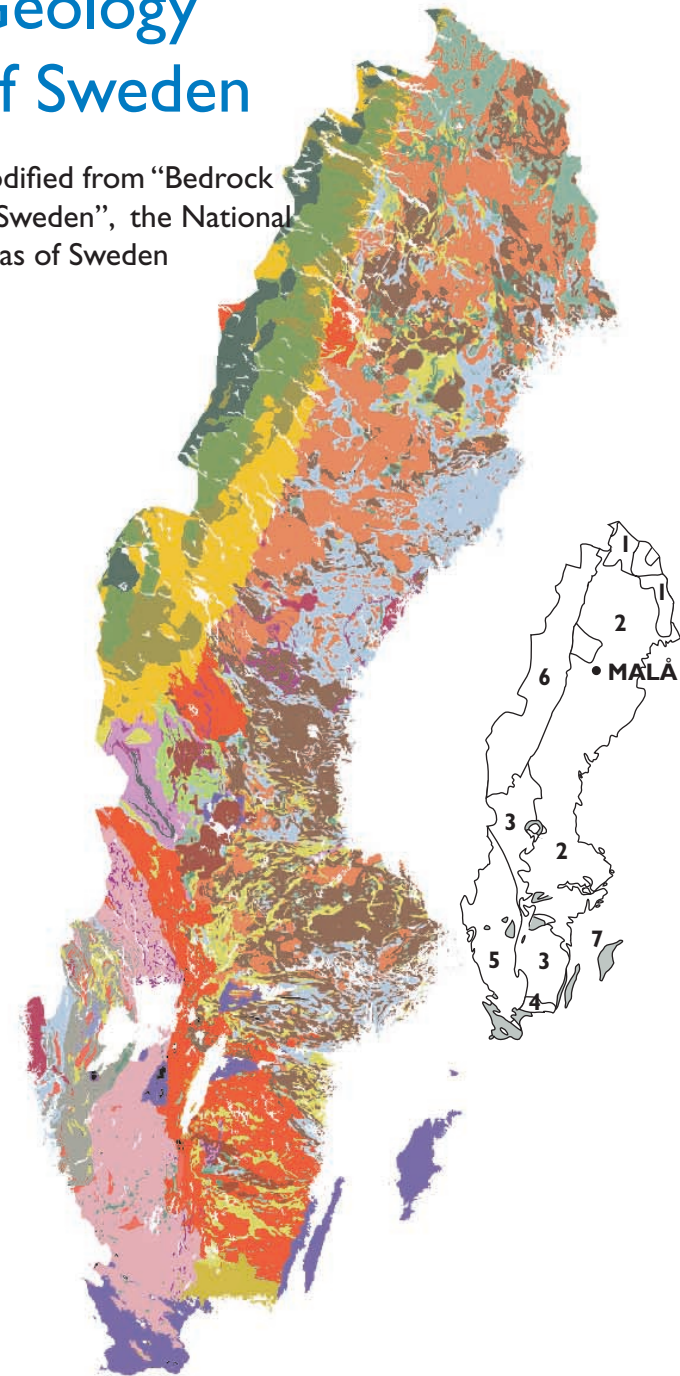
Mainly granitoids

7. Phanerozoicum

Marble, shale and sandstone

Geology of Sweden

Modified from “Bedrock of Sweden”, the National Atlas of Sweden



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SWEDISH CALEDONIDES

(latest ductile deformation ca. 510–400 Ma)

- Outboard terranes
- Tectonically shortened margin of the continent Baltica. E=Eclomite, D=Dolerite

PHANEROZOIC SEDIMENTARY COVER ROCKS, IGNEOUS ROCKS AND IMPACT STRUCTURES

- Phanerozoic sedimentary cover rocks and dolerite
- B Jurassic and Cretaceous basaltic plugs
- A Lower Cambrian alkaline igneous complex (Alnön)
- * Inferred impact structure

FENNOSCANDIAN SHIELD

Neoproterozoic clastic sedimentary rocks

- Clastic sedimentary rocks

Sveconorwegian orogen

(latest ductile deformation ca. 1.10–0.90 Ga)

- Median and Western segments (including reworked, >ca. 1.56 Ga outboard terranes?)
- Palaeoproterozoic volcanic and intrusive rocks belonging to TIB* in Eastern segment
- Eastern segment excluding TIB*

Anorogenic intrusions and supracrustal rocks

- Mesoproterozoic intrusive rocks
- Palaeo- to Mesoproterozoic clastic sedimentary rocks and basalt

Svecokarelian orogen

(latest ductile deformation post-ca. 1.80 Ga in northern Sweden, in the time range ca. 1.78–1.56 Ga in south-central Sweden, and ca. 1.77–1.40 Ga in southeasternmost Sweden)

- Meta-TIB* rocks (?) affected by pervasive deformation in southeasternmost Sweden
- Palaeoproterozoic volcanic and intrusive rocks belonging to TIB* and Revsund-Sorsele suite
- Palaeoproterozoic rocks excluding TIB* and Revsund-Sorsele suite
- Archaean rocks

DUCTILE DEFORMATION ZONES

- Caledonian thrust
- Sveconorwegian deformation zone, strike-slip and reverse displacement
- Sveconorwegian thrust
- Svecokarelian deformation zone, strike-slip and north-side-down displacement
- Svecokarelian deformation zone with strike-slip displacement
- Deformation zone, kinematics unspecified

Arrows indicate sense of strike-slip displacement. In the Sveconorwegian orogen, SFDZ (PZ)=Sveconorwegian Frontal Deformation Zone, in part equivalent to the so-called Protogine Zone, MZ=Mylonite Zone, GZ=Göta Älv Zone, and DBT=Dalsland Boundary Thrust

FAULTS

- Normal fault

TZ = Tornquist Zone
 TIB* = Transscandinavian Igneous Belt
 1 Ma = 1 million years, 1 Ga = 1000 million years

Major tectonic units in the bedrock of Sweden

