

This document is a 'road map' for the lithology vocabulary used by the NGMDB geologic map portal. The words in boxes with black outlines are terms in the vocabulary. These are meant to be used for specifying the rock types that compose a geologic unit. The concepts represented are hand-sample scale rock types to be treated as material constituents of a geologic unit.

In each diagram, flow is generally from more general to more specific categories from top to bottom.

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graph TD
    CGR[Composite genesis rock] --> MR[Metasomatic rock]
    CGR --> MPR[Metamorphic rock]
    
    MPR --> HF[Hornfels]
    MPR --> GF[Granofels]
    MPR --> FM[Foliated metamorphic rock]
    MPR --> MG[Migmatite]
    MPR --> GR[Granulite]
    
    HF --> FG[fabric genesis]
    GF --> FG
    
    FM --> F[fabric]
    
    F --> G[Gneiss]
    F --> S[Schist]
    F --> MR2[Mylonitic rock]
    
    G --> OG[Orthogneiss]
    G --> PG[Paragneiss]
    
    S --> MS[Mica schist]
    S --> P[Phyllite]
    S --> SL[Slate]
    
    MR2 --> PH[Phyllonite]
    
    GR --> M[Mineralogy]
    
    M --> A[Amphibolite]
    M --> E[Eclogite]
    M --> MA[Marble]
    M --> SR[Serpentinite]
    M --> Q[Quartzite]
    
    A --> CA[Chlorite actinolite epidote metamorphic rock]
    E --> CA
    MA --> GL[Glaucoophane lawsonite epidote metamorphic rock- metamorphic rock]
    SR --> GL
    Q --> GL
    
    CGR --> FRM[Fault-related material]
    FRM --> CS[Cataclasite series]
    FRM --> BG[Breccia-gouge series]
    FRM --> IMR[Impact metamorphic rock]
    
    CGR --> MSO[Material formed in surficial environment]
    MSO --> B[Bauxite]
    MSO --> RM[Residual Material]
    RM --> RSO[soft, gneiss, residuum, laterite]
    
    CGR --> D[Duricrust]
    D --> DSO[alcalcrete, calcrete, etc.]
  
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**Composite genesis rock**

**Metasomatic rock**

**Metamorphic rock**

*Metamorphic rock is kind of Composite genesis rock; other categories here do not specify consolidation state.*

**fabric genesis**

**Hornfels**

**Granofels**

**Foliated metamorphic rock**

**fabric**

**Gneiss**

Orthogneiss

Paragneiss

**Schist**

Mica schist

Phyllite

Slate

**Mylonitic rock**

Phyllonite

**mineralogy**

*fabric and mineralogic categories of metamorphic rock are overlapping*

**Migmatite**

**Granulite**

Amphibolite

Eclogite

Marble

Serpentinite

Quartzite

Chlorite actinolite epidote metamorphic rock

Glaucoophane lawsonite epidote metamorphic rock- metamorphic rock

**Fault-related material**

Cataclasite series

Breccia-gouge series

Impact metamorphic rock

**Material formed in surficial environment**

Bauxite

Residual Material

soft, gneiss, residuum, laterite

**Duricrust**

alcalcrete, calcrete, etc.