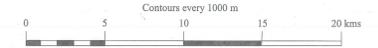


Karakoram - Kohistan - Ladakh - Himalaya North Pakistan

Patrick Le Fort and Arnaud Pêcher

Field data mainly by P. Le Fort and A. Pêcher. Unpublished data by S. Guillot, Y. Lemmenicier, B. Lombardo, G. Macho, F. Rolfo and Y. Rolland (in Skardu-Shigar-Chogo Lungma and A.B. Kasur (in Gilgit area) have also been used.



Scale 1 : 150,000

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QUATERNARY FORMATIONS

- Recent alluvium, flood plain sediments
- Lowest terrace
- Highest terrace
- Terrace fan
- Active scree and alluvium
- Stabilised scree and alluvium
- Recent moraine
- Older moraine, Karpochi till (GyK)
- Hummocky moraine
- Sand dunes
- Landslide

KARAKORAM

- #### Intrusive rocks
- Isolated young bodies
 - Hachindar Miocene granite
 - Hissambud and Nagar Miocene granites
 - Sunayar Miocene granite
 - Hemasil Miocene syenite
- #### Axial batholith
- Baloo Miocene granite
 - Mango Gisar Oligocene pluton
 - Bulimint granite
 - Huzaa Cretaceous granodiorite (a: biotitic facies)
 - Gabero (blocks)

Metamorphic complex

- #### Gneiss and orthogneiss
- Dassu and Goyungo (a) orthogneiss
 - Mangol Blak orthogneiss
 - Bukpun orthogneiss
 - Arether orthogneiss
 - Other orthogneiss
 - Zil felsic gneiss
 - migmatitic gneiss (North of Chalt and lower Chogo Lungma)
- #### Metasedimentary and metavolcanic formations
- Undifferentiated metasediments
 - marble
 - amphibolite
 - quartzite
 - predominantly terrigenous formation (southern Karakoram)
 - Khusonik schist

Volcanic and sedimentary rocks

- Chalt formation and Turmik greenstone group
- Rakhan Gali and Pakora limestone
- Pakora conglomerate
- pillow-lavas
- Askor amphibolite
- Sinakar volcano-sediment
- Boram marble
- Gilgit-Kachura gneiss
- Sulfide and sulphur mineralization

KOHISTAN - LADAKH

- #### Intrusive rocks
- North of the Dobani - Dasu ultramafics
 - N-Bagrot monzodiorite, Gontar monzogabbro
 - Normal trondjemite
 - Badshah granite
 - N-Barti tonalite to granodiorite
 - Dobani - Dasu ultramafics
 - South of the Dobani - Dasu ultramafics
 - Dunyor and Thorwar heterogeneous diorite
 - Slagae undifferentiated plutonic complex
 - Bikhar tonalite to granodiorite and Skoyo tonalite
 - Gilgit granite, Setpara tonalite and granite
 - S-Barti monzonite
 - Remendok granodiorite
 - Dykes, acidic (a), basic (b)
 - Remendok Miocene leucotondjemite

Shyok suture zone

- Mir conglomerate
- Tagafat limestone
- terrigeneous formation
- Polan La ultramafics
- Baana Harel melange zone
- volcanics
- pillow-lavas

HIMALAYA

- #### Intrusive rocks
- Phuparsh leucogranite
- #### Himalayan gneiss
- Undifferentiated gneiss
 - Stak gneiss (predominantly paragneiss)
 - Iskore gneiss (predominantly orthogneiss)
 - Range Blok orthogneiss

STRUCTURAL SYMBOLS

- Geological contact
- Main tectonic contact
- Faults
- Stratification (dip : 0-44°, 45-85°, 86-90°)
- Metamorphic foliation (dip : 0-4°, 5-30°, 31-59°, 60-85°, 86-90°)
- Strain-slip-sheave (dip : 0-44°, 45-85°, 86-90°)
- (a) intersection and (b) stretching lineations (plunge : 0-44°, 45-90°)
- (a) syn-metamorphic and (b) post-metamorphic folds (plunge : 0-44°, 45-90°)
- Isolated major fold hinge, highly folded zone

GEOGRAPHIC SYMBOLS

- Main peaks (elevation > 7000 m, > 6000 m)
- Glaciers, rivers
- GILGIT, Dabayar
- Towns, villages
- Kharwal
- Summer settlements
- Roads, main trails or jeepable roads