

# GEOLOGICAL MAP OF THE WESTERN CORDILLERA OF NORTHERN PERU NORTH SHEET

LEGENDA LEYENDA  
WESTERN PROVINCE SOUTH OF CAJAMARCA

**QUATERNARY**

- Q Aluvial and glacial deposits
- Qa Deposits aluviales y glaciales
- U Unconformity Discordancia

**INTRUSIVE ROCKS**

- KT-a Andesite granita
- KT-mz Andesite granita
- KT-h Tonalita granodiorita
- KT-g Gabro diorita
- KT-i Andesite granita
- KT-mz Andesite granita
- KT-h Tonalita granodiorita
- KT-g Gabro diorita

**WESTERN PROVINCE NORTH OF CAJAMARCA**

**TERTIARY**

- Te-h Fm. HUAMBOS
- Te-p Tuffs Tufos
- U Unconformity Discordancia
- Tr-p Fm. PORCULLA
- Tr-h Deltas, piroclastic Andesitas, piroclasticos
- Tr-l Fm. LLAMA
- Tr-m Andesita, piroclastic Andesitas, piroclasticos
- U Unconformity Discordancia
- Tr-h Fm. TEMPLADERA
- Tr-l Andesita, piroclastic Andesitas, Piroclasticos
- U Unconformity Discordancia
- Tr-p Fm. CASAPALCA, CHOTA, HUAYLAS
- Tr-h Red Sandstones, marls and conglomerates Areniscas rojas, margas y conglomerados
- U Unconformity Discordancia

**CRETACEOUS**

- Kc-c Fm. CAJAMARCA-CELENDIN
- Kc-m Limestone and marls Calizas y margas
- Kc-p Fm. PALLUCANA-QUELQUIMAN
- Kc-s Limestone and marls Calizas y margas
- Kc-a Gp. ALBIAN Fms. INCA, CHULEC, PARIATAMBO, CRISNEJAS
- Kc-g Marls and limestones Margas y calizas
- Kc-i Fm. CHIMU
- Kc-o White sandstone Areniscas blancas
- Kc-l Fm. TRIANQUES
- Kc-b Black shales and quartzites Lutitas negras y cuarcitas
- U Unconformity Discordancia
- Ju-c Fm. OYUTUN
- Ju-h Andesita, piroclastic Andesitas piroclasticos
- Ju-d Fm. LA LECHERA
- Ju-s Limestone and tuffs Calizas y tufos
- Ju-i Fm. SABILLA
- Ju-o Sandstones Areniscas

**JURASSIC**

- Ju-c Fm. OYUTUN
- Ju-h Andesita, piroclastic Andesitas piroclasticos
- Ju-d Fm. LA LECHERA
- Ju-s Limestone and tuffs Calizas y tufos
- Ju-i Fm. SABILLA
- Ju-o Sandstones Areniscas

**PERMIAN**

- Pa-h Fm. RAUPE
- Pa-s Quartzite Cuarcitas
- U Unconformity Discordancia

**MISISSIPPIAN**

- Mi-h Fm. RAUPE
- Mi-s Quartzite Cuarcitas
- U Unconformity Discordancia

**DEVONIAN**

- De-h Fm. RAUPE
- De-s Quartzite Cuarcitas
- U Unconformity Discordancia

**ORDOVICIAN**

- Or-h Fm. RAUPE
- Or-s Quartzite Cuarcitas
- U Unconformity Discordancia

**PRE-ORDOVICIAN**

- E ENDELSOR
- E Phyllites, schists etc. Filices esquistos etc.

**WESTERN PROVINCE SOUTH OF CAJAMARCA**

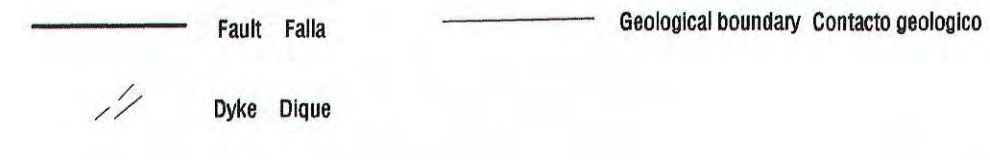
- Kt-h Fm. CALIPUY
- Kt-l Andesitas, piroclastic Andesitas, piroclasticos
- U Unconformity Discordancia
- Kt-c Fm. CASAPALCA, CHOTA, HUAYLAS
- Kt-h Red sandstones, marls and conglomerates Areniscas rojas, margas y conglomerados
- U Unconformity Discordancia
- Kc-c Fm. CELENDIN
- Kc-m Many limestones Calizas y margas
- Kc-p Fm. JUMBARA
- Kc-s Limestone Calizas
- Kc-a Gp. ALBIAN Fms. INCA, CHULEC, PARIATAMBO, CRISNEJAS
- Kc-g Marls and limestones Margas y calizas
- Kc-i Fm. CHIMU
- Kc-o White sandstone Areniscas blancas
- Kc-l Fm. TRIANQUES
- Kc-b Black shales and quartzites Lutitas negras y cuarcitas
- U Unconformity Discordancia
- Ju-c Fm. OYUTUN
- Ju-h Andesita, piroclastic Andesitas piroclasticos
- Ju-d Fm. LA LECHERA
- Ju-s Limestone and tuffs Calizas y tufos
- Ju-i Fm. SABILLA
- Ju-o Sandstones Areniscas

**EASTERN PROVINCE**

- Te-h Ignimbrite
- Te-l Ignimbrite
- U Unconformity Discordancia
- Tr-p Fm. CALIPUY
- Tr-h Andesitas, piroclastic Andesitas, piroclasticos
- U Unconformity Discordancia
- Tr-h Fm. YANTAC
- Tr-l Tuffs, shales Tufos, lutitas
- U Unconformity Discordancia
- Tr-p Fm. CASAPALCA, CHOTA, HUAYLAS
- Tr-h Red sandstones, marls and conglomerates Areniscas rojas, margas y conglomerados
- U Unconformity Discordancia
- Kc-c Fm. CELENDIN
- Kc-m Many limestones Calizas y margas
- Kc-p Fm. JUMBARA
- Kc-s Limestone Calizas
- Kc-a Gp. ALBIAN Fms. INCA, CHULEC, PARIATAMBO, CRISNEJAS
- Kc-g Marls and limestones Margas y calizas
- Kc-i Fm. CHIMU
- Kc-o White sandstone Areniscas blancas
- Kc-l Fm. TRIANQUES
- Kc-b Black shales and quartzites Lutitas negras y cuarcitas
- U Unconformity Discordancia
- Ju-c Fm. OYUTUN
- Ju-h Andesita, piroclastic Andesitas piroclasticos
- Ju-d Fm. LA LECHERA
- Ju-s Limestone and tuffs Calizas y tufos
- Ju-i Fm. SABILLA
- Ju-o Sandstones Areniscas

**LIAS**

- Li-h Fm. CONDORINCA
- Li-s Thin bedded limestones Calizas en capas delgadas
- Li-c Fm. CHAMBARA
- Li-m Massive limestones Calizas masivas
- Li-p Fm. PUCARA
- Li-s Limestone Calizas
- U Unconformity Discordancia
- Pa-h Gp. MITU
- Pa-s Andesitas, conglomerates and marls Andesitas, conglomerados y margas
- U Unconformity Discordancia
- Ci-h Gp. AMBO
- Ci-s Sandstones Areniscas
- U Unconformity Discordancia
- O-h Fm. CONTAYA
- O-s Shales Lutitas
- U Unconformity Discordancia
- E ENDELSOR
- E Phyllites, schists etc. Filices esquistos etc.



This map is a compilation of primary mapping undertaken by geologists of the Servicio Nacional de Geología y Minería del Perú, the Institute of Geological Sciences, London, and Liverpool University between 1963 and 1972. The principal contributors were J. Baldock, A. Busse, R. Childs, E.J. Cobbing, A. Cosío, J.E.C.M. Greenwood, H. Jean, S. Myers, W.S. Pischer, L. Reyes, and J.J. Wilson.

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SCALE 1:500,000

