

Representing Landforms and Geological Structure

Geological Maps -

A geological map shows the geographical distribution of different rock formations or strata at the ground surface. Its interpretation leads to an understanding of the lithology & structure of the underlying rocks, which in turn, help in the study of the evolution of landforms in a particular area.

Geological structures are no doubt understood in a much better way from geological sections than from the maps. These sections can be added to the edges of topographical profiles & block diagrams so as to produce a 'life-like picture' of the landscape.

Types of Geological Maps

- 1) Surficial Maps
- 2) Outcrop Maps
- 3) Areal Maps
- 4) Structural Maps

In the beginning it is essential to be acquainted with some ~~silent~~ features of geological maps & also with geological terms.

Conventional signs & Methods of shading

The geological formations are shown by conventional tints or colours, or in black & white by their symbols. Thickness & age-sequence are shown in columns, the oldest formation at the bottom while the youngest at the top.

(Geological conventional signs)

1		क्षैतिज स्तर (Horizontal strata)
2		ऊर्ध्वाधर स्तर (Vertical strata)
3		धरातल पर नमन-कोण (Dip at surface)
4		साधारण नत स्तर (Gently inclined strata)
5		अत्यधिक नत स्तर (Highly inclined strata)
6		अपनति (Anticline)
7		अभिनति (Syncline)
8		तरंगित स्तर का सामान्य नमन (General dip of undulating strata)
9		तरंगित स्तर (Undulating strata)
10		स्तर का नमन, तरंगित नतिलम्ब (Dip of strata, undulating strike)
11		विदलन का नमन (Dip of cleavage)
12		हिमानी खरोंच (Glacial striae)
13		अपोढ़ की सीमाएँ (Boundaries of drift)
14		अन्य भूवैज्ञानिक सीमाएँ (Other geological boundaries)
15		धरातल पर भ्रंश, अवपात पार्श्व पर क्रॉस का चिह्न (Fault at surface, cross-mark on the downthrow side)
16		विषमविन्यस्त तल (Plane of unconformity)

(Method of shading)

1		जलोढ़क (Alluvium)
2		मृत्तिका या चोका (Clay)
3		गोलाश्म मृत्तिका (Boulder clay)
4		संकोणाश्म (Breccia)
5		पटिया पत्थर (Flag stone)
6		शेल (Shale)
7		पंकाश्म (Mud stone)
8		बलुआ पत्थर (Sand stone)
9		चूना पत्थर (Lime stone)
10		संगुटिकाश्म (Conglomerate)
11		स्लेट (Slate)
12		शिस्ट (Schist)
13		नाइस (Gneiss)
14		आग्नेय शैल (Igneous rock)
15		अंतर्वेधन (Intrusion)
		बजरी (Gravel)

देशीय भूवैज्ञानिक मानचित्रों के रूप आयु-चिह्न

भूवैज्ञानिक युग (Geological epoch)	आयु चिह्न (Age symbols)	
	प्रथम चिह्न	द्वितीय चिह्न
भूवैज्ञानिक युग (Geological epoch)	०	.