

MASS WASTING

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CONCEPT

oMass wasting is the movement of rock and soil down slope under the influence of gravity. Rock falls, slumps, and debris flows are all examples of mass wasting. Often lubricated by rainfall or agitated by seismic activity, these events may occur very rapidly and move as a flow.

TYPES

• A. VERTICAL MOVEMENT

- o a. FALL
- o i. ROCK FALL
- o ii. EARTH FALL
- o iii. DEBRIS FALL
- o b. TOPPLE
- o c. SUBSIDENCE
- o i. COLLAPSE
- o ii. SETTLEMENT

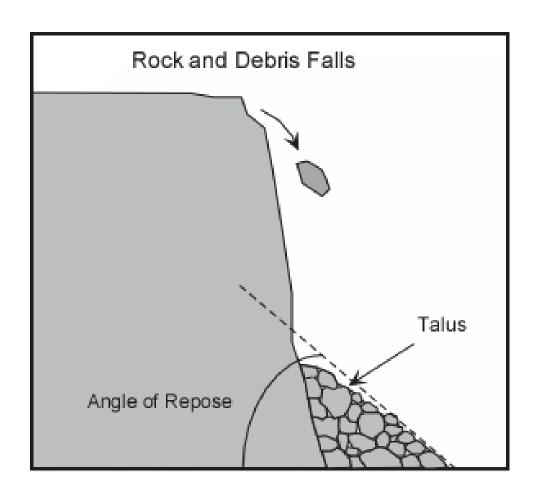
o B. LATERAL MOVEMENT

- o a. BLOCK GLIDE
- o b. SPREADING
- o c. CAMBERING
- o d. SACKUNG

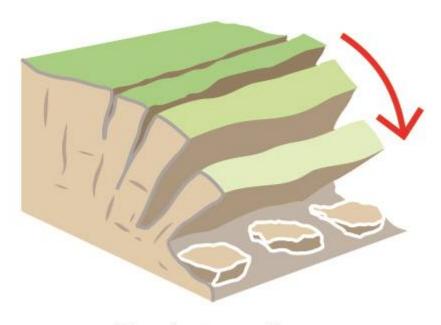
• C. DIAGONAL MOVEMENT

- o a. CREEP
- i. SOIL CREEP
- o ii. ROCK CREEP
- o iii. TALUS CREEP
- iv. ROCK GLACIER CREEP
- o b. SLIDE
- o i. ROCK SLIDE
- o ii. DEBRIS SLIDE
- o iii. SOIL SLIP
- o iv. SLUMP
- o c. FLOW
- i. SOIL FLOW
- o ii. DEBRIS FLOW

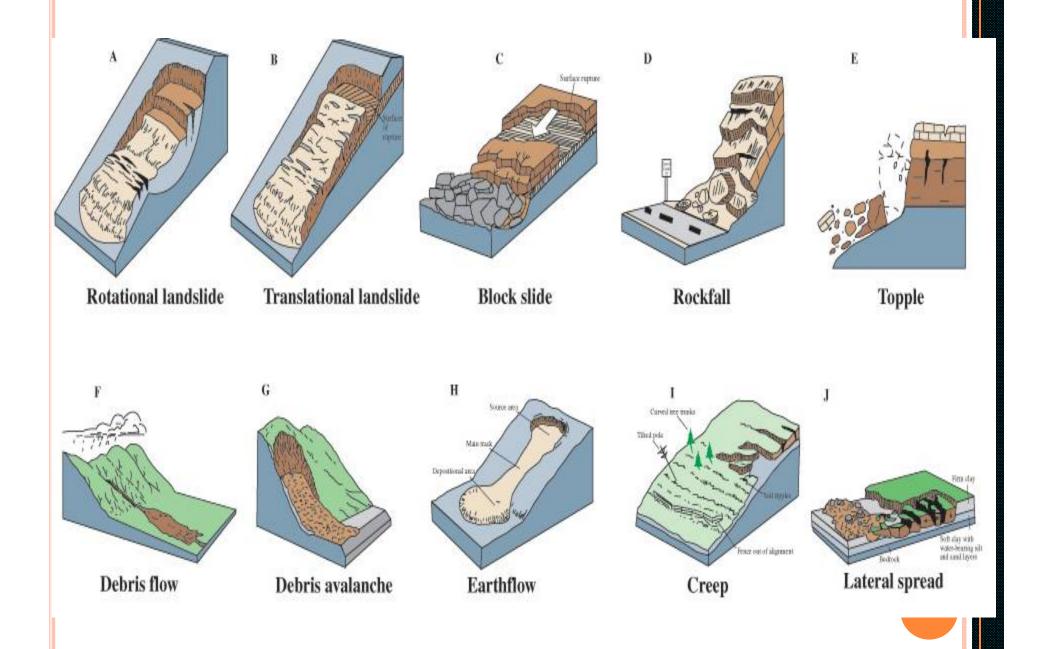
FALL



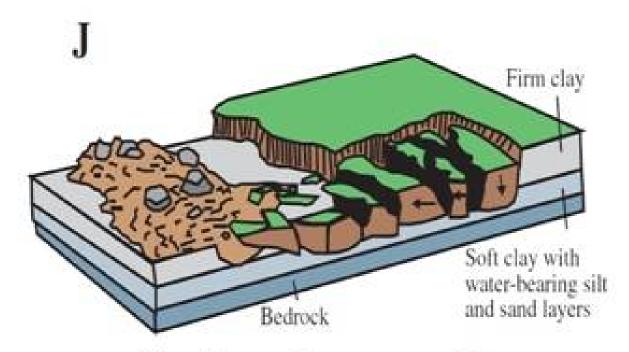
TOPPLE



Rock topple



LAND SLIDE

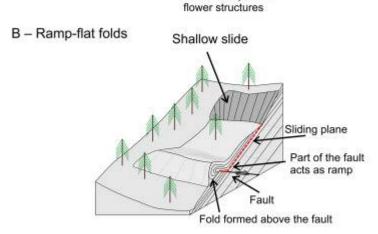


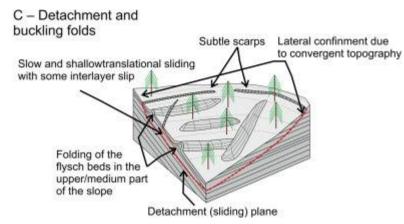
Lateral spread

SAKUNG

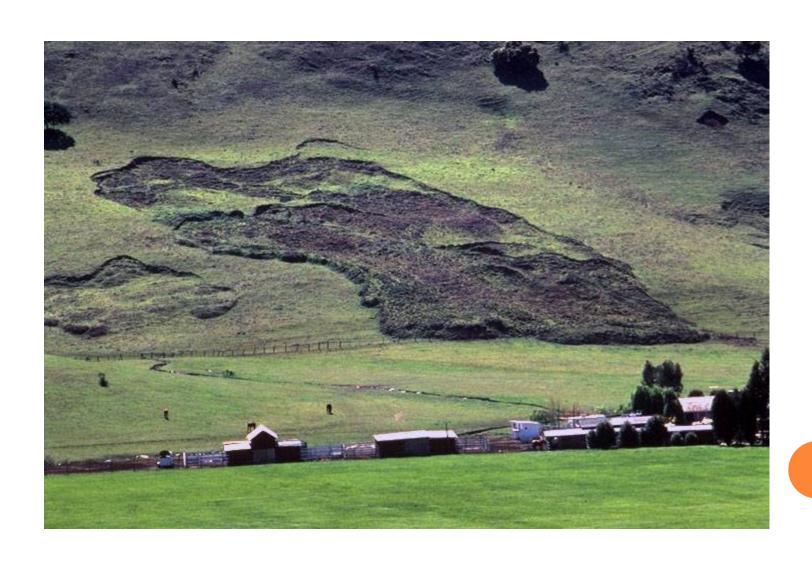
1. Extension (Sackung) 3. Local compression 2. Sliding of flysch slab which formes lateral margin of landslide 4. Fold and positive

A - Transpression

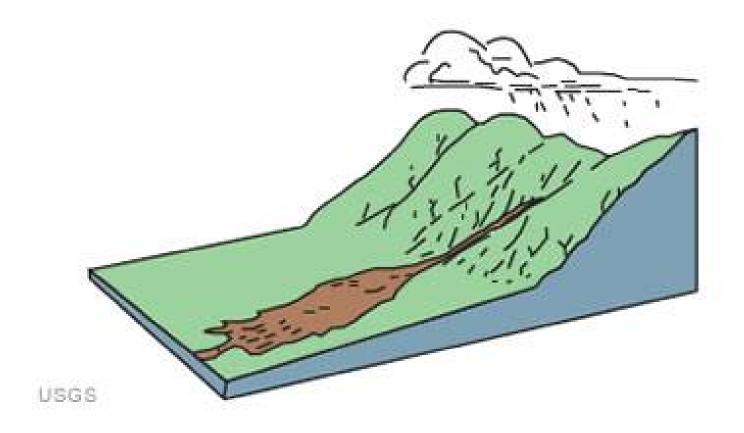




EARTH FLOW



DEBRIS SLIDE

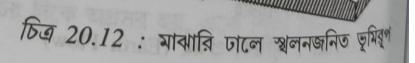


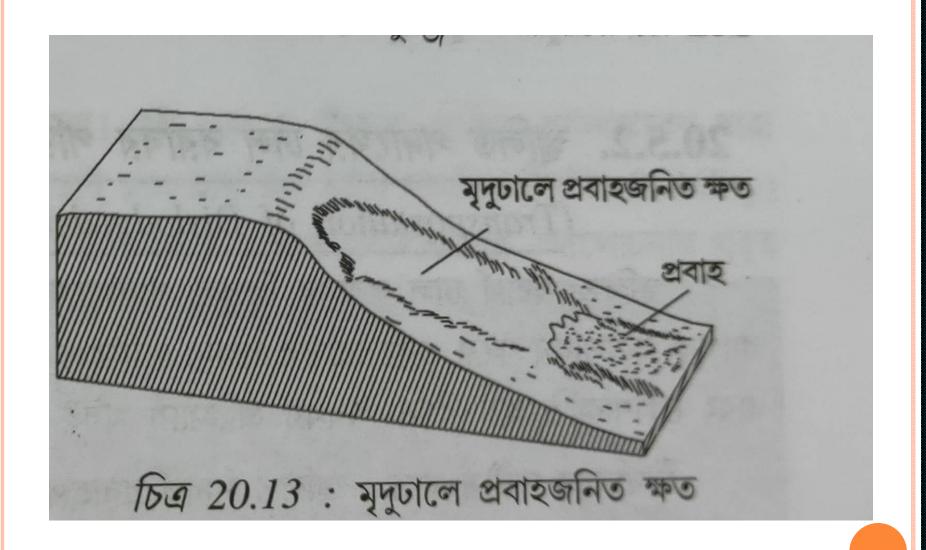
RESULTANT LANDFORMS

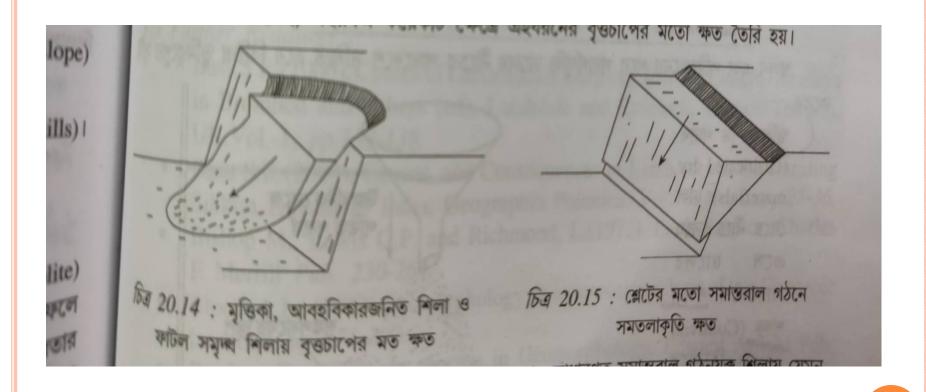
- 1. VERTICAL SLOPE
- 2. STEEP SLOPE
- 3. GENTLE SLOPE
- 4. CIRCULAR SCAR
- 5. PLANER SCAR
- 6. WEDGE_LIKE SCAR
- 7. TOPPLING SCAR
- 8. SCREE OR TALUS
- 9. GELIFLUCTION LOBE

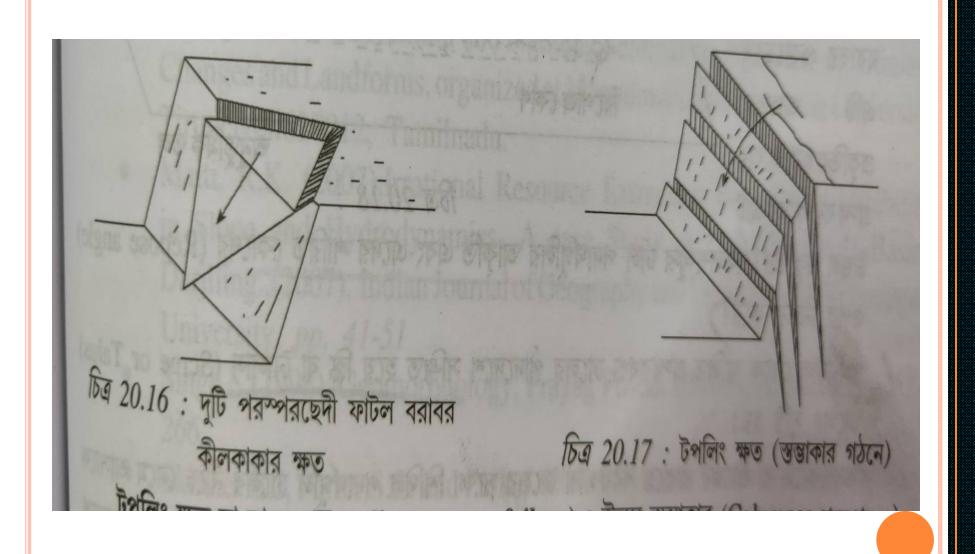
পুরো তৃগুঢালই স্থালনজনিত ঢাল

চিত্র 20.11 : ভূগুঢ়ালে স্থালনজনিত ভূমিরূপ









Thank you