

Terminal Moraine



Lateral Moraine & Debris-covered Glacier



Glacial Erratics



Glacial Erratics



Skardu Area – Proglacial Lake



Skardu Area – Katpana Cold Desert



Skardu Area – Katpana Cold Desert



Skardu Area – Indus River Bridge





Indus River

MASS MOVEMENT CLASSIFICATION

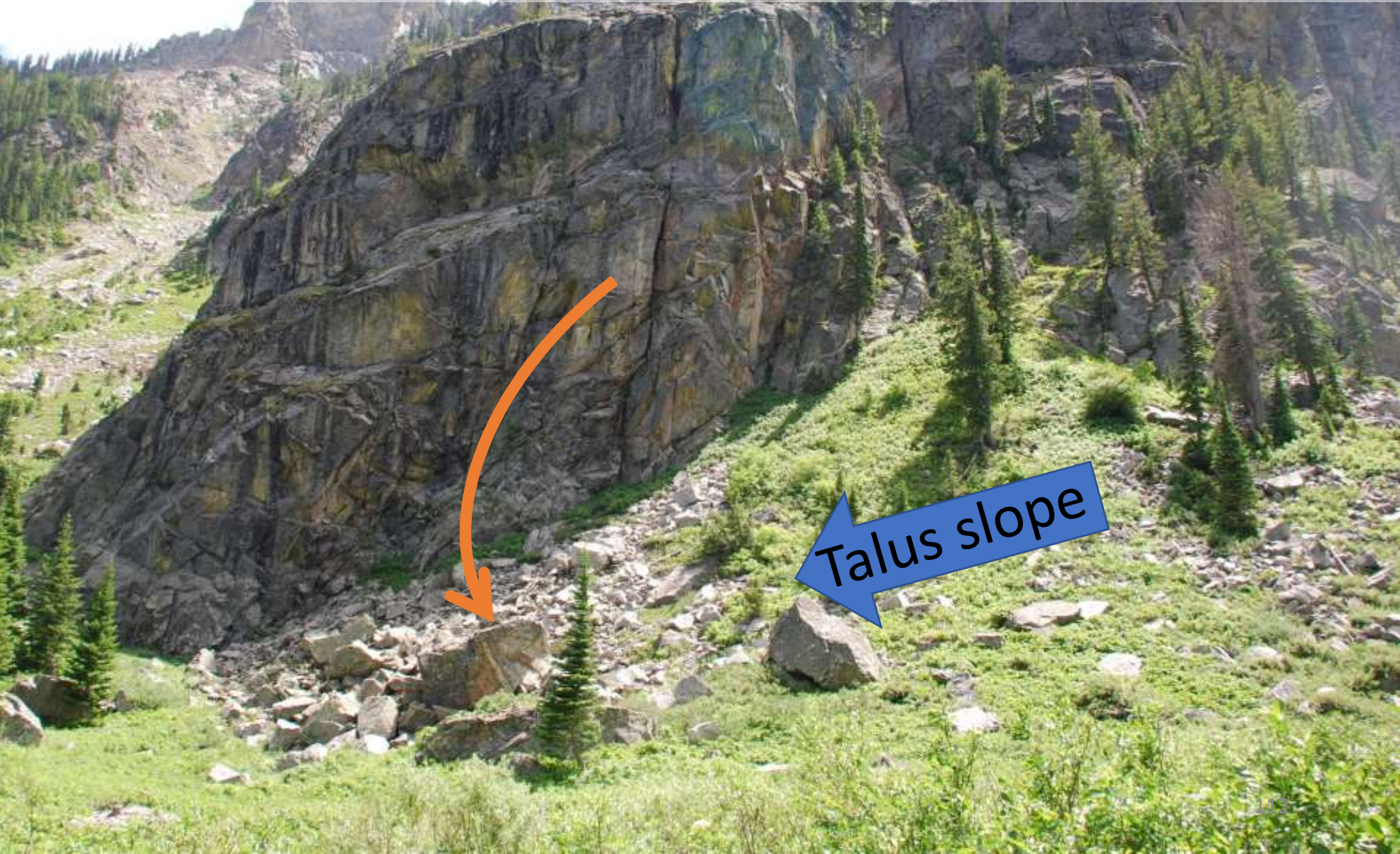
TYPE OF MOVEMENT		TYPE OF MATERIAL		
KIND RATE		ROCK	DEBRIS	EARTH
FALLS	Very Rapid	Rock Fall	Debris fall	Earth fall
TOPPLES		Rock topple	Debris topple	Earth topple
SLIDES	Few units Rotational	Rock slump	Debris slump	Earth slump
	Many units Transitional	Rock block slide	Debris block slide	Earth block slide
		Rock slide	Debris slide	Earth slide
LATERAL SPREADS	Slow to Very Rapid	Rock spread	Debris spread	Earth spread
FLOWS	Dry	Rock flow (deep creep) Sackung	Debris avalanche Slow and Rapid Debris flow Blockstream Lahar	Sand run Loess flow
	Medium			Slow and Rapid Earth flow Bog burst
	Wet			Sand or Silt flow Mud flow
Thaw and Freeze	Commonly Imperceptible	Creep		
		Protalus lobe creep Rock glacier creep	Gelifluction	
ISOLATED UNIT MOVEMENT	Slow to Very Rapid	Talus and Colluvial Accumulation		
COMPLEX		Combinations of Material or types of movement		
UNKNOWN		Rock slip	Debris slip	Earth slip

"Landslides"

Mass Movement Classifications

it can get quite complicated...

Rock Falls – typically move one rock at a time –
physical weathering called frost wedging is typically
responsible



Rock Falls in GTNP – Garnet Canyon



Talus slope

Rock falls are where [Pika](#) live. They make hay with vegetation and save it in the talus slope cavities



Rock fall deposits (talus slopes) that grow into each other = Piedmonts

