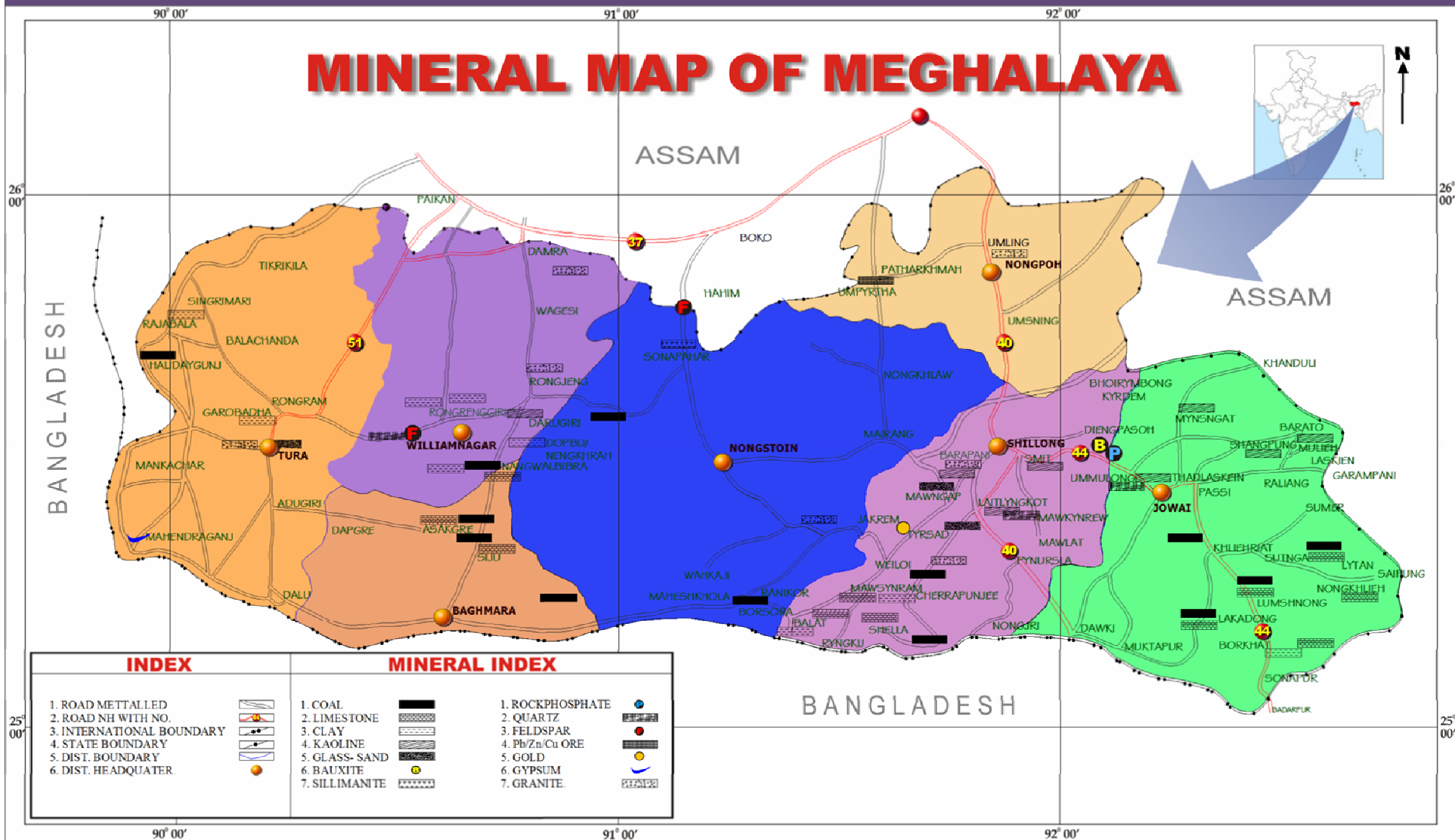


Geotourism of *Meghalaya*

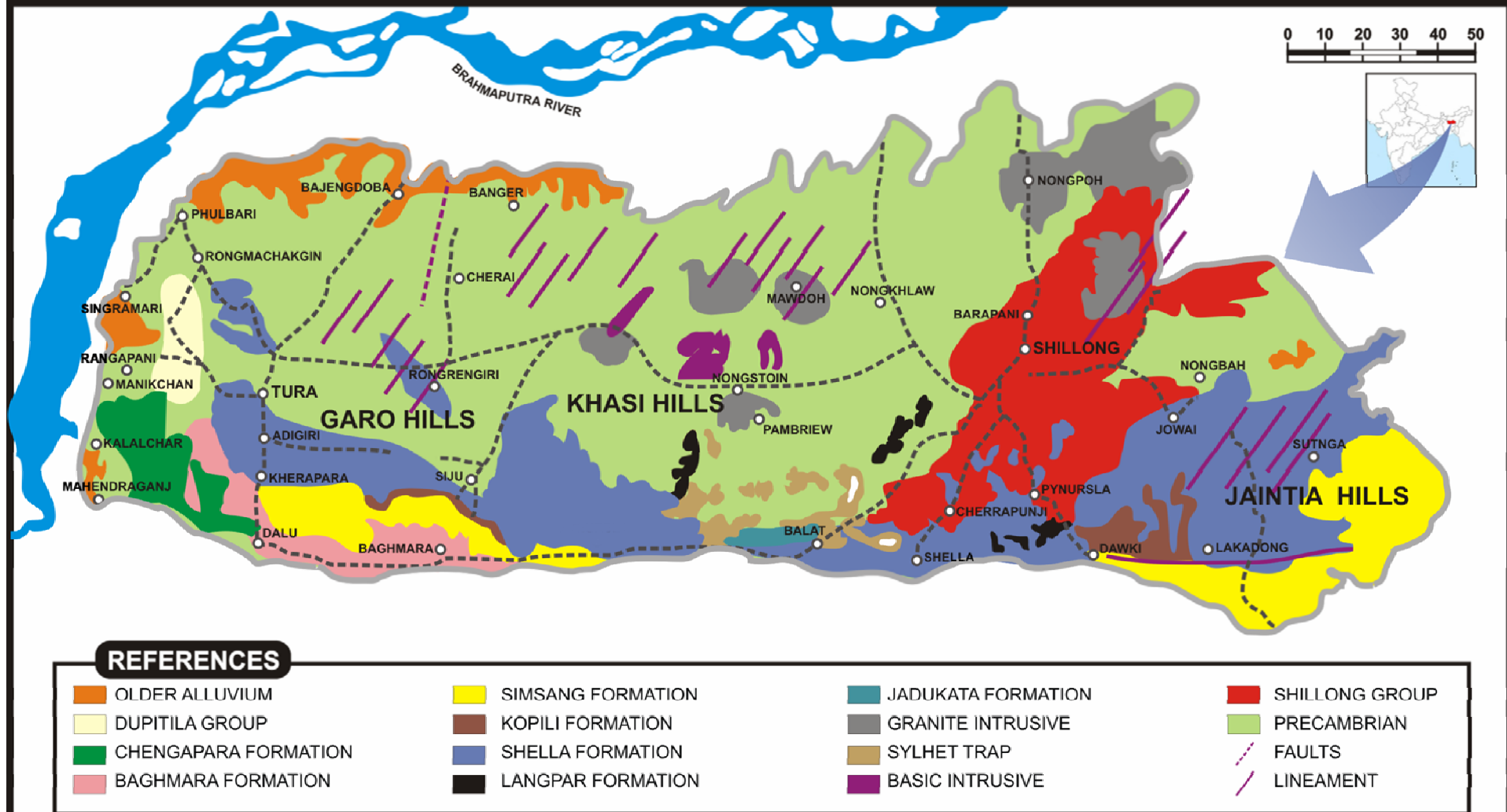
Meghalaya is a nature's gift with tremendous unexplored potential to develop tourism on geo-sites, or sites of geological importance, carved out by mother nature millions of years ago. These geo-sites are, plateau and valleys, caves and natural tunnels, rocks, cliff and gorges, waterfalls of diverse sizes. Efforts were made to represent these different geo-sites photographically.



MINERAL MAP OF MEGHALAYA



GEOLOGICAL AND TECTONIC MAP OF MEGHALAYA



MINERAL RESOURCES : CHART

Minerals	Resource (In million tones)	Grades
Limestone	15100.0	Cement, metallurgical & chemical.
Coal	576.48	Sub-bituminous, partly caking med. to high sulphur & C.V.
Kaolin	5.24	White ware
Lithomargic clay	97.0	White ware, earthen ware, furnace lining, curing soap etc.
Glass sand	3.0	Ordinary glass ware.
Quartz	0.5	Ordinary ceramic grade.
Feldspar	0.127	Ceramic grade.
Iron ore	3.60	Low grade.
Sillimanite	0.045	High temp. furnace lining.
Bauxite	1.45	Low grade (40% Al ₂ O ₃)
Rock phosphate	0.015	Low grade (15-30% P ₂ O ₅).
Phosphatic nodule	nominal	P ₂ O ₅ : 5 to 15%.
Gypsum	nominal	Crystals of salanite variety.
Granite	50.0millionm ³	Table top, wall cladding etc.
Base metal/Trace metal	1.14%Cu:0.80mt; 1.60%Zn:0.85mt; 1.88%Pb:0.88mt. with traces of Cd,Bi,Ag. Tenor of gold encountered in 3 bore Holes in Tyrsad	

Raw materials for Abrasive Industry



Fireclay



Dolomite



Sillimanite



Corundum



Quartzite

Raw materials for Ceramic Industry



Quartz



Plastic Clay



White Clay



Kaolinised Rock



Feldspar

Raw materials for Cement Industry



Limestone



Coal



Gypsum



Ironstone



Clay



**MAWKYRWAT
KHASI HILLS**

**NONGKREM
KHASI HILLS**

**POLISHED ROCKS
OF MEGHALAYA**

GRANITE

**SHELLA
LIMESTONE**

DIORITE

**KHASI
GREENSTONE**

**TRAP
ROCK**

CARBONATITE

SVLHET TRAP

NONGPOH GRANITE

**MAWKRIAH
GRANITE**

DOLERITE

**RAW MATERIALS FOR
REFRACTORY AND
ABRASIVE INDUSTRY**

SILLIMANTE



FIRECLAY



CORUNDUM



DOLOMITE



QUARTZITE



RAW MATERIALS FOR CEMENT INDUSTRY

LIMESTONE



IRONSTONE



CLAY



COAL



GYPSUM



MINERALS OF MEGHALAYA



LIMESTONE



COAL



GOLD



CLAY



APATITE



IRON ORES



KAOLINISED ROCK



LOAD STONE



CHALCOPYRITE



SILLIMANITE



FIRE CLAY



LITHOMARGIC CLAY

PHOSPHORITE



QUARTZ



BAUXITIC CLAY



MAGNETITE



GLASS SAND



CORUNDUM



GYPSUM



FELDSPAR





IMPORTANT GEOLOGICAL LOCATIONS OF MEGHALAYA

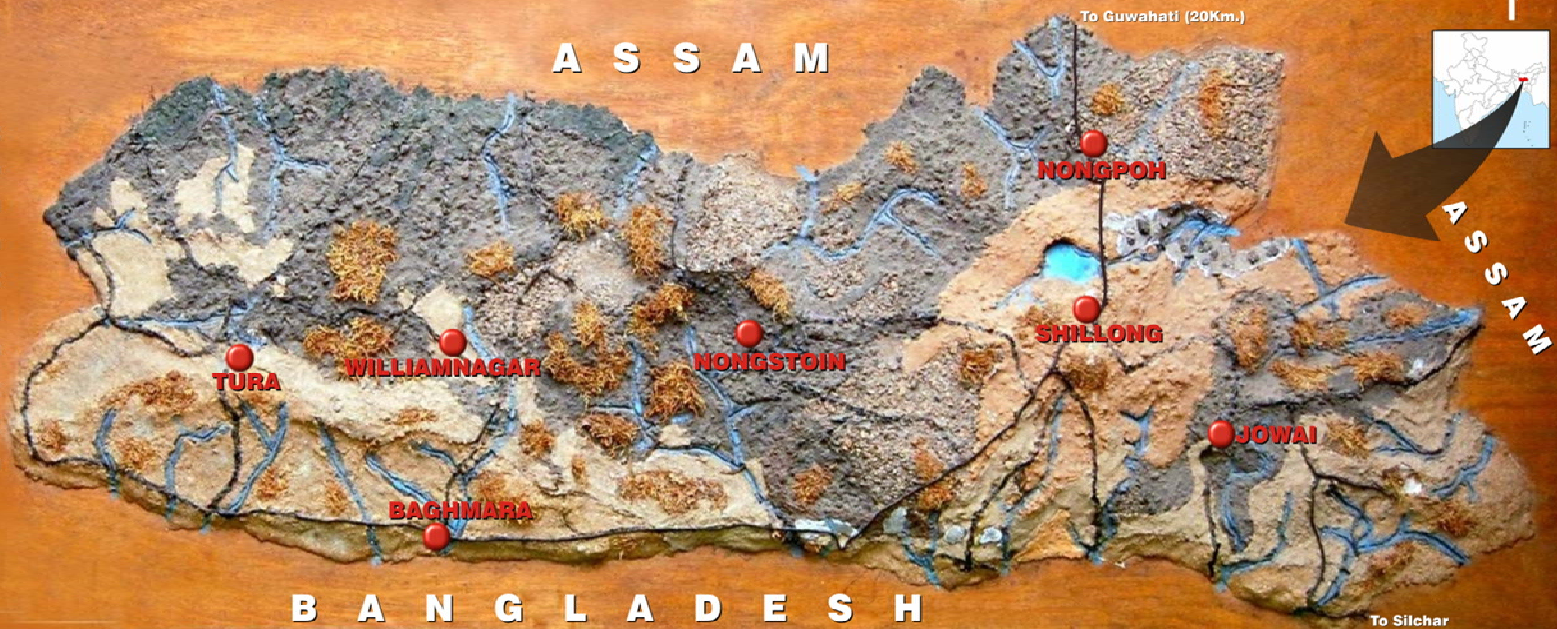
GEOLOGICAL MODEL OF MEGHALAYA

A S S A M

INDEX

ALLUVIUM	●
LATE & POST EOCENE	●
SHELLA FORMATION	●
LANGPAR FORMATION	●
DISTRICT HEADQUARTER	●
JADUKATA FORMATION	●
SYLHET TRAP	●
GRANITE INTRUSIVES	●
BASIC INTRUSIVES	●
SHILLONG GROUP	●
GNEISSES & SCHISTS	●

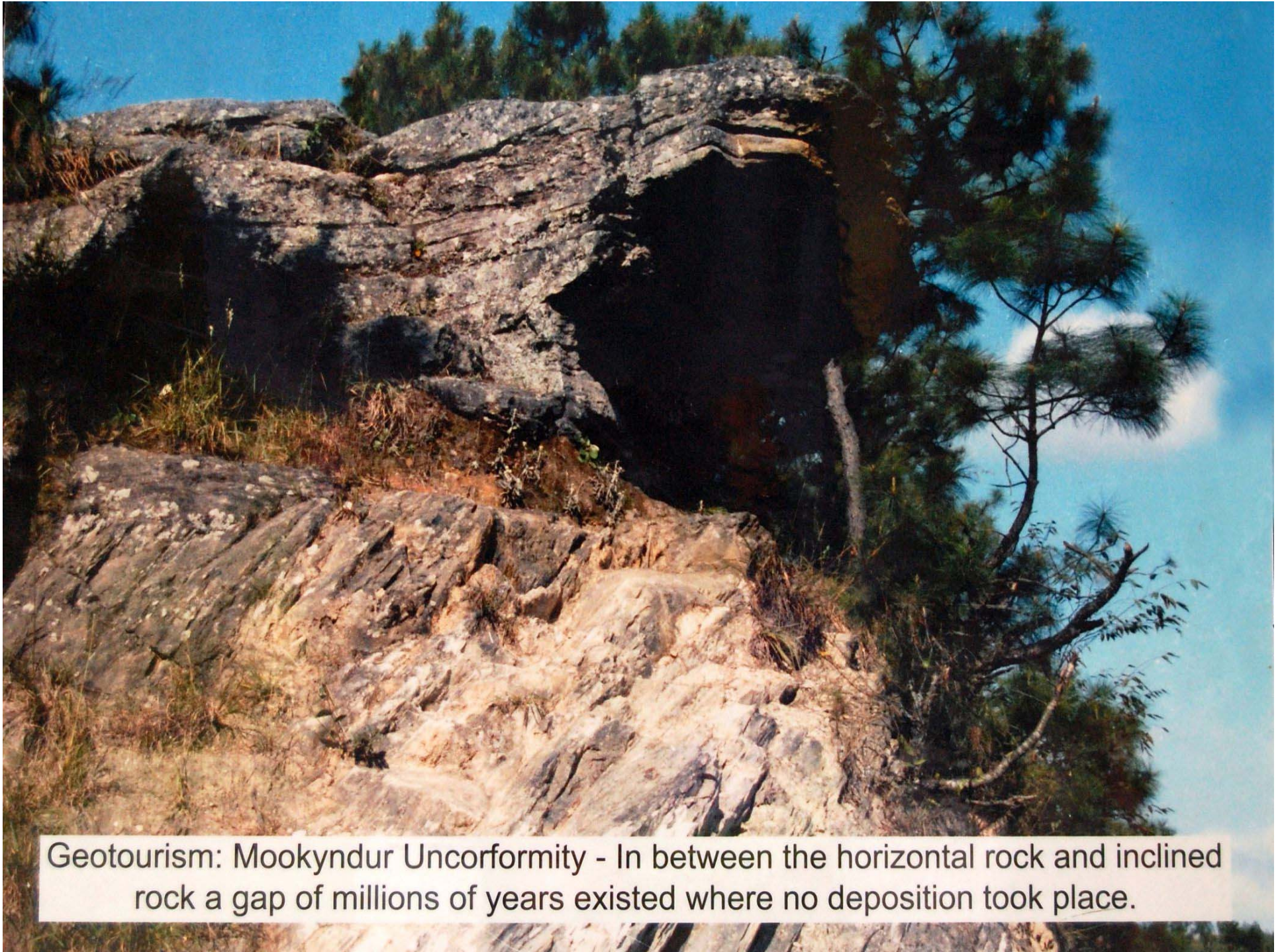
Scale:
H - 1 : 2,50,000
V - 1 : 50,000



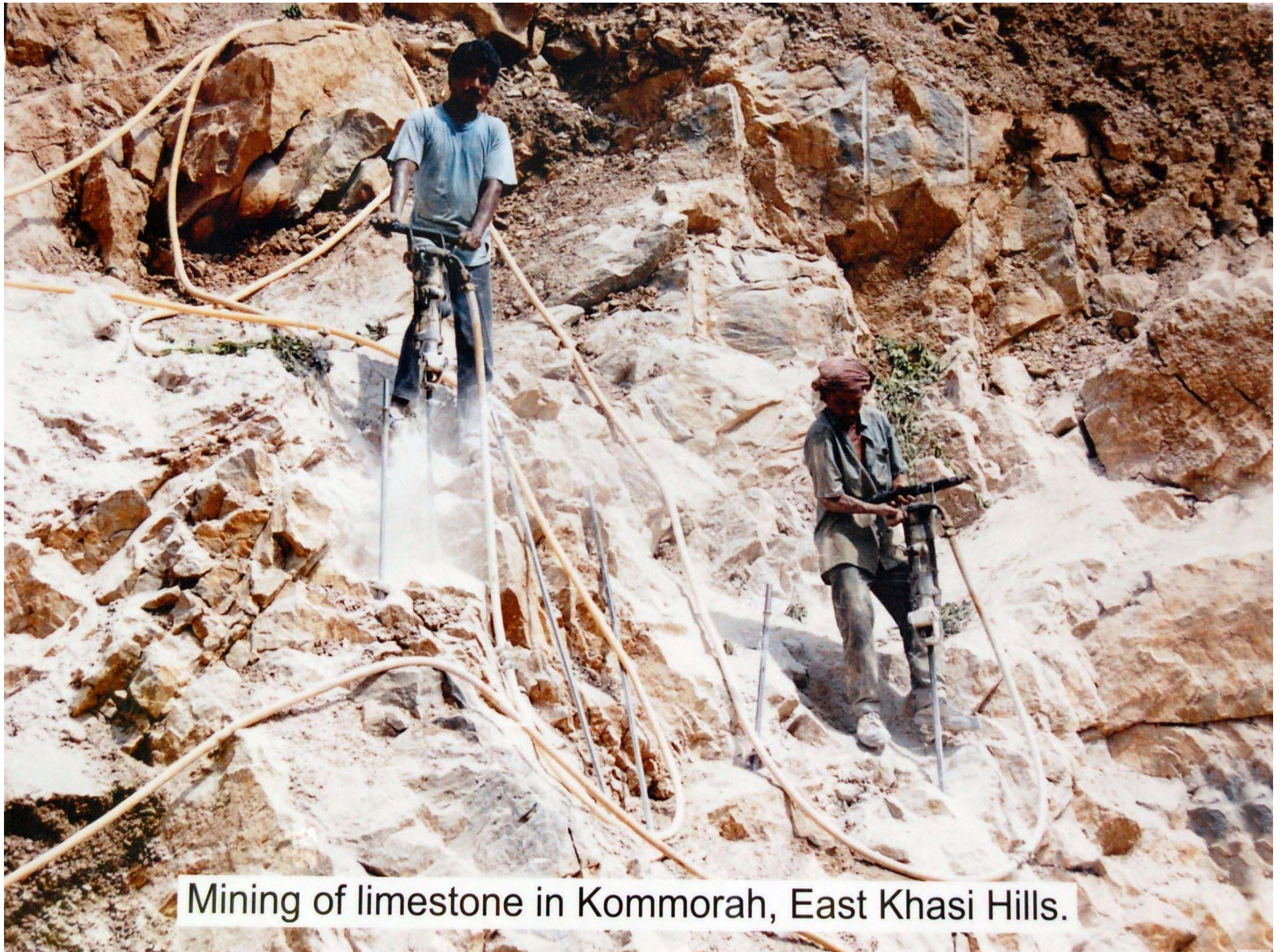
To Silchar



Geotourism: Syndai cave-Variou geological process involved giving rise to cave.



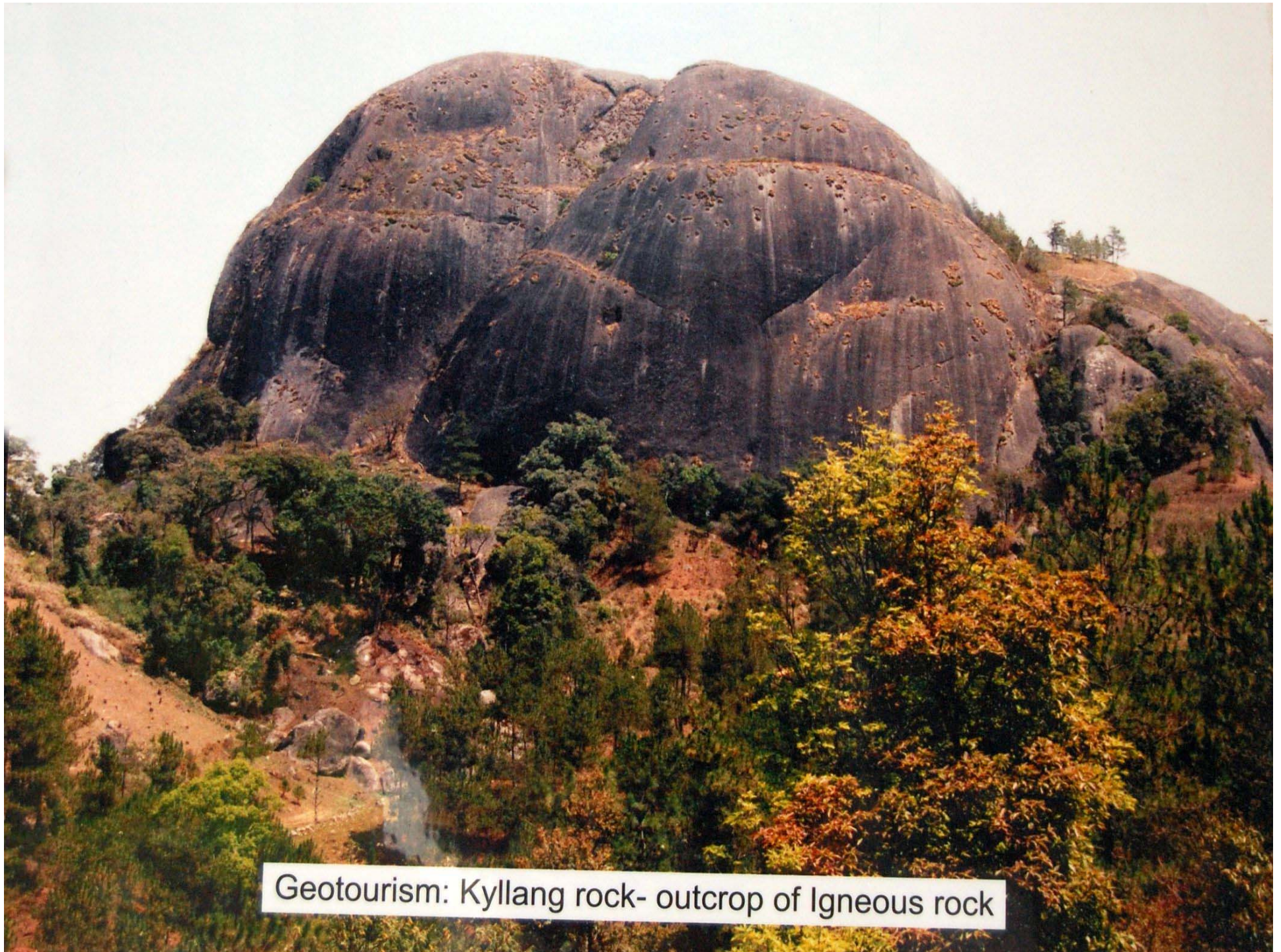
Geotourism: Mookyndur Uncorformity - In between the horizontal rock and inclined rock a gap of millions of years existed where no deposition took place.



Mining of limestone in Kommorah, East Khasi Hills.



Geotourism: Sweet falls - exposure of Metamorphic rocks.



Geotourism: Kyllang rock- outcrop of Igneous rock