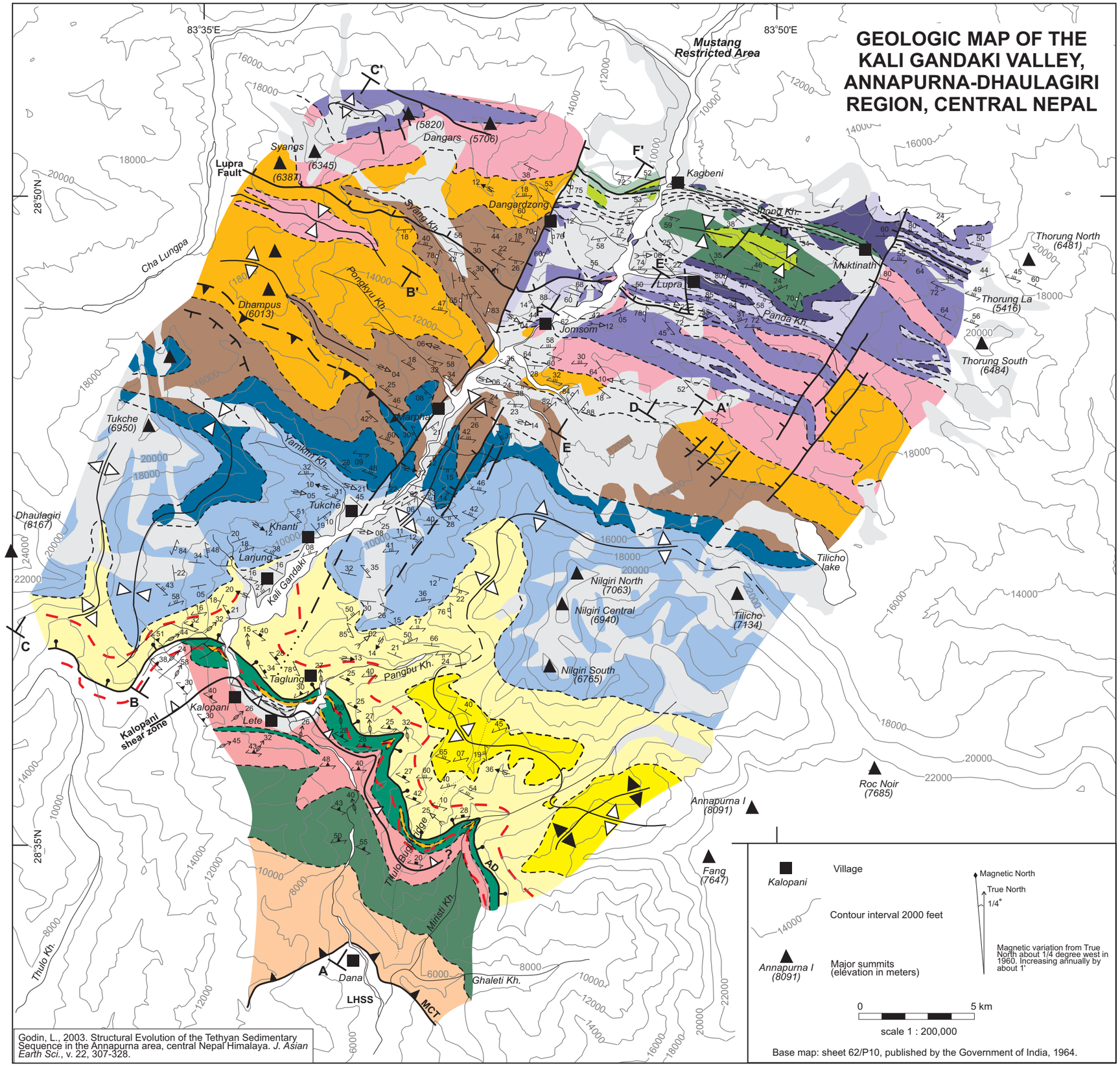
GEOLOGIC MAP OF THE KALI GANDAKI VALLEY, ANNAPURNA-DHAULAGIRI REGION, CENTRAL NEPAL



Godin, L., 2003. Structural Evolution of the Tethyan Sedimentary Sequence in the Annapurna area, central Nepal Himalaya. *J. Asian Earth Sci.*, v. 22, 307-328.

Kalopani — Village

Contour interval 2000 feet

Annapurna I (8091) — Major summits (elevation in meters)

Magnetic North
True North
1/4°
Magnetic variation from True North about 1/4 degree west in 1960. Increasing annually by about 1'

0 — 5 km

scale 1 : 200,000

Base map: sheet 62/P10, published by the Government of India, 1964.

Quaternary & Neogene
- Alluvium, Ice & Pliocene Thakkhola Fm (undifferentiated)

unconformity

Cretaceous — Jurassic — Triassic — Carboniferous-Permian — Devonian — Silurian — Ordovician — Cambrian (?)-Ordovician

Tethyan sedimentary sequence

Chukh Group
- Muding unit
- Kagbeni unit
- Chukh unit

- Lupra Fm
- Bagung Fm
- Jomsom Fm
- Thini Fm
- Thini Chu Fm
- Lake Tilicho Fm

Sombre Fm
- alternating black shale & limestone
- gritty dolomite
- Nilgiri Fm
- Annapurna Fm
- Sanctuary Fm

AD: Annapurna detachment

Proterozoic-early Paleozoic

Greater Himalayan metamorphic sequence
- calc-silicate
- pelite
- augen gneiss

Fm III
- Fm II
- Fm I

MCT: Main Central thrust

Proterozoic-early Paleozoic
- LHSS — Lesser Himalayan sedimentary sequence

- 15 — Strike and dip of bedding
- 15 15 15 15 15 — Strike and dip of foliation (gneissocity, S_1, S_2, S_3, S_4, and S_5)
- 08 — Trend and plunge of mineral elongation lineation (L_m)
- 08 08 08 — Trend and plunge of F_2 minor fold hinge lines (S, Z and symmetric shapes of minor folds viewed down plunge)
- 08 08 08 — Trend and plunge of F_4 minor fold hinge lines (S, Z, and symmetric shapes of minor folds viewed down plunge)
- F_1 axial surface trace (anticline); F_2 axial surface trace (anticline, syncline)
- Kalopani shear zone (from Vannay and Hodges, 1996)
- Reverse faults (certain, approximate)
- Limits of High-strain zone (from Godin et al., 1999a)
- Normal faults (certain, approximate, assumed)