

Plates

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Plate 1: Geological map of the NW Indian Himalaya

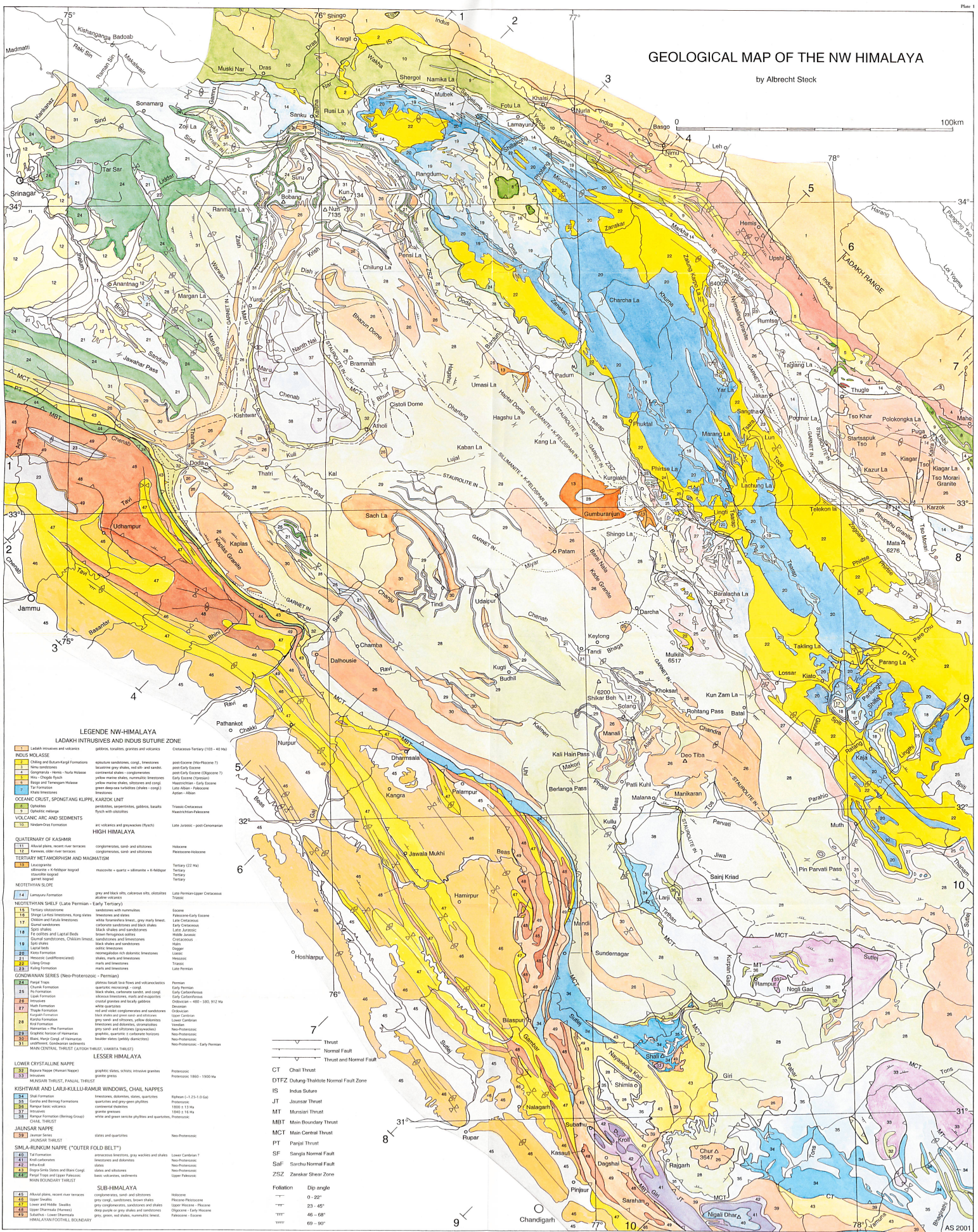
Plate 2: Geological sections through the NW Indian Himalaya

Plate 3: Tectonic map of the NW Indian Himalaya

Plate 4: Metamorphic map of the NW Indian Himalaya

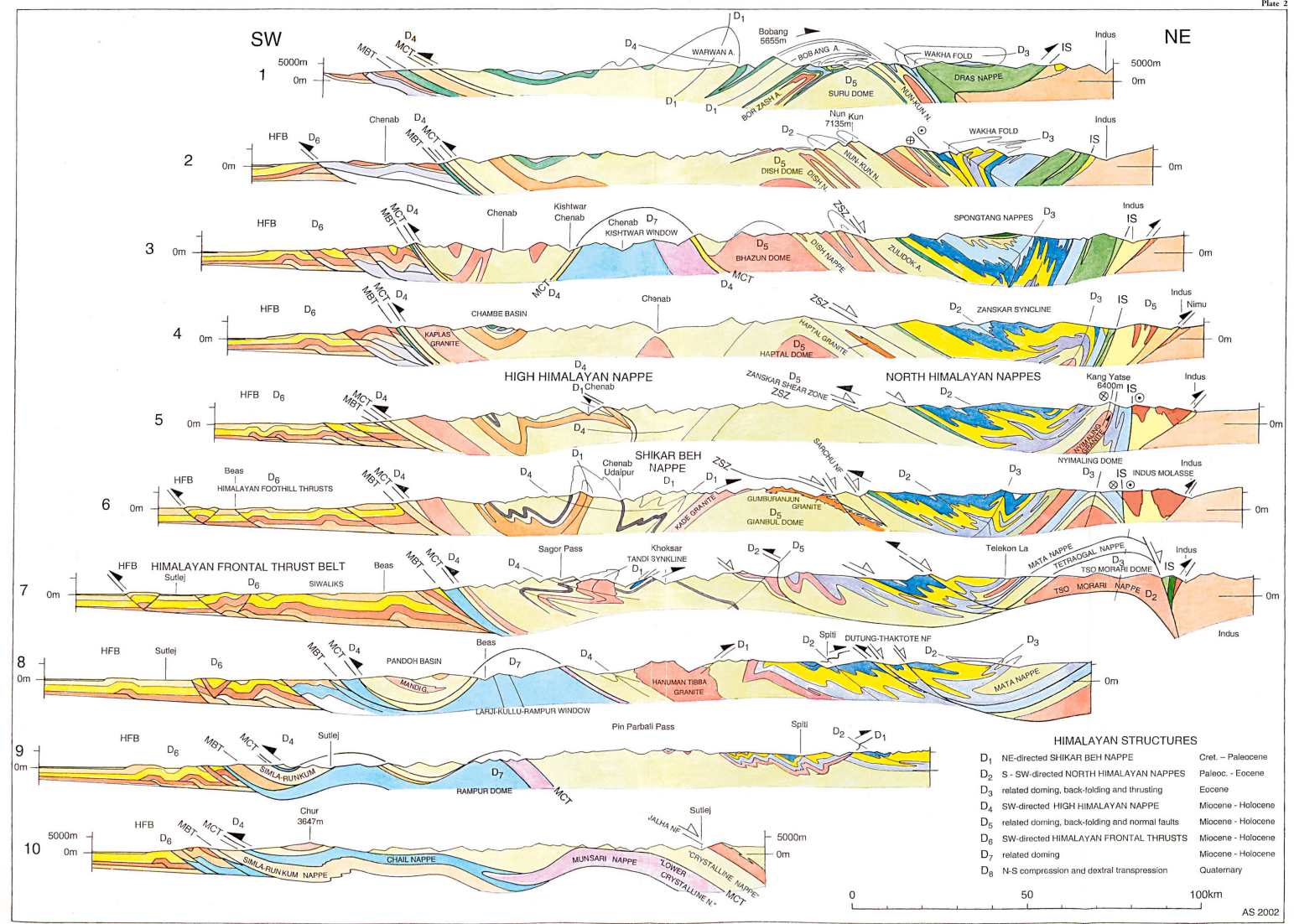
GEOLOGICAL MAP OF THE NW HIMALAYA

by Albrecht Steck



LEGENDE NW-HIMALAYA LADAKH INTRUSIVES AND INDUS SUTURE ZONE

1	Ladakh intrusives and volcanics	granitic, syenitic, granitic and volcanics	Cretaceous-Tertiary (105 - 40 Ma)
2	INDUS MOLASSE		
3	Neogene sandstones	quaternary sandstones, congl. intrusives	post-Eocene (100-Pliocene ?)
4	Quaternary - Holocene, Nanga Parvato	loess, grey shales, red sh. and sandst.	post-Early Eocene (Miocene ?)
5	Mylai - Chaghi Flysch	conglomerates, sandstones, shales	Early Eocene (Spatang)
6	Yellow Flysch	yellow marls, shales, nummulitic limestone	Early Eocene (Spatang)
7	Yellow Flysch	yellow marls, shales, nummulitic limestone	Early Eocene (Spatang)
8	Lower Albian - Fluviocene	conglomerates, sandstones, shales	Albian - Albian
9	Upper Albian - Fluviocene	conglomerates, sandstones, shales	Albian - Albian
10	OCEANIC CRUST, SPONGTANG KLIPPE, KARAKORAM UNIT		
11	Ophiolites	peridotites, serpentinites, gabbros, basalts	Triassic-Cretaceous
12	Serpentine melange	serpentinites, talc, talc schists	Triassic-Cretaceous
13	Volcanic Arc and Sediments		
14	Indus-Cong Formation	volcanics and granitoids (rhyolite)	Late Jurassic - post-Cretaceous
15	Quaternary of Kashmir		
16	Alluvial plains, recent river terraces	conglomerates, sand and siltstones	Holocene
17	Recent, older river terraces	conglomerates, sand and siltstones	Pleistocene-Holocene
18	TERTIARY METAMORPHISM AND MAGMATISM		
19	Ultramylonite - Kulu Group	mylonites, quartz - sillimanite + K-feldspar	Tertiary (22 Ma)
20	Ultramylonite - Kulu Group	mylonites, quartz - sillimanite + K-feldspar	Tertiary
21	Ultramylonite - Kulu Group	mylonites, quartz - sillimanite + K-feldspar	Tertiary
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100	Ultramylonite - Kulu Group	mylonites, quartz - sillimanite + K-feldspar	Tertiary



HIMALAYAN STRUCTURES

D ₁	NE-directed SHIKAR BEH NAPPE	Cret. - Paleocene
D ₂	S - SW-directed NORTH HIMALAYAN NAPPES	Paleoc. - Eocene
D ₃	related doming, back-folding and thrusting	Eocene
D ₄	SW-directed HIGH HIMALAYAN NAPPE	Miocene - Holocene
D ₅	related doming, back-folding and normal faults	Miocene - Holocene
D ₆	SW-directed HIMALAYAN FRONTAL THRUSTS	Miocene - Holocene
D ₇	related doming	Miocene - Holocene
D ₈	N-S compression and dextral transposition	Quaternary



METAMORPHIC MAP OF THE NW HIMALAYA

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