TAT - 1: GEODYNAMIC EVOLUTION OF THE HIMALAYA AND ADJOINING MOUNTAINS

TAT - 1.1 Himalayan Deep Image Profiling (HIMDIP) along defined transects
(S.S. Bhakuni, Gautam Rawat, Naresh Kumar, Dilip Yadav, Devajit Hazarika)

TAT - 1.2 Present day Uplift or Subsidence and Gravitational Potential energy change in NW-Himalaya and the NE Himalayan Syntaxis: Crust-mantle density in-homogeneity using Satellite Geodesy/Gravimetry and Seismology.
(Rajesh S., Sushil Kumar and V. Sriram)

TAT - 1.3 Tectonics of the Shillong Plateau, northeastern India
(Swapnamita C. Vaideswaran)

TAT - 1.4 Tectonic evolution of Shyok Suture and Karakoram Fault Zone Rocks and their bearing on Tibet Uplift
(H. K. Sachan, Koushik Sen, and Barun K. Mukherjee)

TAT-1.4a Tectonic evolution of Shyok Suture and Karakoram Fault Zone rocks and their bearing on Tibet Uplift. (Investigators: Dr. B.K. Mukherjee and Dr. Koushik Sen)*

TAT-1.4b Fluid evolution and formation condition of migmatites of Karakoram region as well as of Ophiolitic rocks of the western Ladakh (Investigators: Dr. H.K. Sachan and Dr. Santosh K Rai).

TAT - 1.5 Crustal evolution processes in the Proterozoic Lesser Himalayan domain of NW Himalaya
(Sumit K.Ghosh and R. Islam)

TAT - 1.6 Metamorphism, Migmatization and Magmatism in Higher Himalayan Crystalline: Geochemical and Geochronological constrain on Leucogranite Granite melt generation and emplacement.
(P.K. Mukherjee)

TAT - 1.7 Tectono-metamorphic evolution of Higher Himalayan Crystallines: Perspective of channel flow models
(Keser Singh and T. N. Jowhar)

TAT - 1.8 Geochemical and crustal evolution of the Himalayan orogenic belt in Himachal NW Himalaya, and in the Eastern Syntaxial Belt, NE India.
(S. S. Thakur, A. K. Singh, D. R. Rao and Rajesh Sharma)
Mineralisation and Metallogeny in, northwest Himalaya: Emphasis on the role of complex fluids in magmatic and mineralisation processes. *(Rajesh Sharma)*
TAT - 2: INDIAN MONSOON-TECTONIC INTERACTION AND EXHUMATION OF THE HIMALAYA

TAT - 2.1 Sediment production and sedimentation in Drier Himalaya: Patterns, time scales and palaeoclimatic inferences.
(Pradeep Srivastava, Anil K. Gupta and Koushik Sen)

TAT - 2.2 Tectonics vs. climate change as causal mechanism for beginning of non-marine sedimentation in trans-Himalayan Cenozoic basins
(B. N. Tiwari)

TAT - 2.3 River response to allogenic forcing and late Quaternary landscape evolution: Punjab re-entrant.
(N. Suresh and Rohtash Kumar)

TAT - 2.4 Late-Quaternary paleomonsoon study in Ladakh, North western Himalaya and Indo-Gangetic plain, India
(Narendra Kumar Meena, Sudipta Sarkar, Anil K. Gupta and M. Prakasam)

TAT - 2.5 Climate Variability and Treeline Dynamics in Western Himalaya
(P.S. Negi and Jayendra Singh)

TAT - 2.6 Geochemical & isotopic studies as tracers of weathering and erosion processes in the NW Himalaya.
(Santosh K. Rai and S.K. Bartarya, Anil K. Gupta and A.K.L. Asthana)

TAT - 2.7 High resolution Paleoclimate records from the Himalaya and adjoining regions
(Vinod C. Tewari, Anil K. Gupta, Pradeep Srivastava, Narendra K. Meena, Jayendra Singh, M. Prakasam, Raj Kumar Singh (lien) and Santosh K. Rai)

TAT - 3: EARTHQUAKE PRECURSORS STUDIES AND GEO HAZARD EVALUATION

TAT - 3.1 Seismological, seismotectonic and subsurface related studies towards seismic hazard evaluation from the Ladakh, Kinnaur, Kangra and Garhwal-Kumaun regions of the NW Himalaya
(Sushil Kumar, Ajay Paul, Dilip Kumar Yadav and Devajit Hazarika)

TAT - 3.2 Earthquake Precursory studies in the Himalaya through Multiple Geophysical Approach
(Naresh Kumar, Gautam Rawat, P.K.R.Gautam and V. M. Choubey)

TAT - 3.3 Shallow sub surface studies and site response estimates in 1905 Kangra Seismic zone and urban sites of Frontal Himalaya
(A. K. Mahajan (lien) and A.K. Mundepi)
Identification of Active Faults, Paleoequake ruptures and quantification of Fault slip history between HFT and MCT: Implications to Seismic Hazard Assessment in Indian Himalaya

(G. Philip, N. Suresh, R.J. Perumal, Pradeep Srivastava, Khayingshing Luirei)

Project : 3.4 a - Active tectonics and paleoseismological studies within the zones of Himalayan Frontal Thrust and Main Central Thrust in Uttarakhand and Himachal Himalaya.

(G. Philip and N. Suresh)

Project : 3.4 b - Timing, size, and lateral extent of earthquake ruptures along the Himalayan Frontal Thrust (TSLER-HFT)

(R.J. Perumal and Pradeep Srivastava)

Project : 3.4 c - Morphotectonic evolution of the Himalayan frontal belt between Kosi and Kali rivers, Kumaun Himalaya.

(Khayingshing Luirei)

Geoengineering studies and the Petrophysical characteristics of rocks in the selected transects of Uttarakh and Himachal Himalaya

(Vikram Gupta and B.S. Rawat)

TAT - 4: BIODIVERSITY - ENVIRONMENT LINKAGE

Geobiological study of the Neoproterozoic-early Cambrian sequence of carbonate belt, Lesser Himalaya including study of microbiota and microbiotic processes and their interpretation in terms of palaeo-environment and correlation of evolutionary trend with global bioevents.

(Meera Tiwari and Santosh K Rai)

Bio-event stratigraphy of the Lower Paleozoic successions of Himalaya in context with global event stratigraphy.

(S.K. Parcha)

Paleogene and Neogene foraminiferal biostratigraphy, sedimentation and paleoclimate change of the Assam-Arakan Basin, northeast India.

(Kapesa Lokho and V.C. Tewari)

Biotic, mineralogical and geochemical investigations of Early tertiary successions from NW Sub-Himalaya and western India with reference to India-Asia collision and faunal dispersals.

(K. Kumar)
TAT - 4.5  Vertebrate faunal studies of the Neogene Siwalik Group (NW Himalaya) with reference to migration history and Himalayan uplift.  
(R. K. Sehgal)

(V.C.Tewari)

TAT - 5: HIMALAYAN GLACIERS: THEIR ROLE IN INDIAN MONSOON VARIABILITY AND HYDROLOGICAL CHANGES IN THE GANGA BASIN

TAT - 5.1  Mass balance and snout fluctuation studies of Dokriani and Chorabari glaciers, Garhwal Himalaya  
(D.P. Dobhal)

TAT - 5.2  Assessment of Potential Hazards in the Glaciated Regions: its Causes and Consequences  
(Vikram Gupta, D.P. Dobhal and Swapnamita C. Vaideswaran)

TAT - 5.3  Hydrogeology of Himalayan Springs  
(S.K. Bartarya and S.K. Rai)

TAT - 5.4  Geochemical investigation of Stream and Soil Sediments of Piedmont Regions/Plane South of Kumaun Siwalik Himalaya.  
(P.P.Khanna, N.K. Saini, and R. Islam)