

SIGNIFICATION OF BIG SAND BEACH ON TOP OF MOUNTAIN AT LOESS PLATEAU IN NORTH-CHINA &. DISCOVERED ELEPHANT FOSSILS

—Repeat on Uplift of Himalaya Mountain &.Formed Loess Plateau—

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Loess plateau is mainly distributed in north west China—Qinghai, Gansu, Shanxi, Sanxi Province, Inner Mongolia Region etc. From NW to SE, thickness of loess bed was thin to thick (most thickness was about 400m .), particle was from coarse to fine , heavy minerals were more to less, and the clay content had from less to more. According to investigation &.research more than 30 years by Li Mingguang, and recently has new discovered, the main facts had as follows:

(1) Sand &.pebble bed in loess plateau were discovered universally, the most about 10 beds. In top mountain of Beisansi temple, Qinghai provincial Xinian city, &.in top of Zhiwuling, Gansu province; &. in top of Qianyangling, Shanxi province; &. near district of Huokou between Shanxi &. Shanxi; &. in top of mountain in Baode- Lishi-Wucheng County, Sanxi province; there were discovered big sand beach. Among the sand beach there were more rounded pebbles, size was like ball, melon, egg or pea, pebble constituent were quartzite, sandstone, siliceous rock, etc. Sand colour were yellow, red, white, etc. It was shown horizontal stratification, part of it had inclined bedding or cross stratification. Cements were montmorillorite &. illite, which meant sedimentary genesis. It was typical pluvial deposit. In big sand beach on top mountain of Yanchuan, Shanxi province, there were transported the sands by trucks more than 60 in amount, which was used in construction. It had about 300 tons per day, so the scale we could see it was too big.

(2) Elephant fossils group was found in many regions, such as: Heshui &. Qingshui county, Gansu province; Yian city, Xunyi county, Shanxi province; Xiaoyi county, Sanxi province; Qian &. Fongnin county, Hebei province; Jixian county, Tianjing city; Peizhou county, Jiangsu province……. In loess &. sand pebble bed, fossils group of elephant, rhino, wild bull had been found , which showed the old climate enviroment was heat &.wet forest &. grassland weather during loess had formed .

(3) Yellow river flows through Longyangxia, Liujiaxia, Qingtongxia, Sanmengxia gorges &. Shanxi-Sanxi gorge we can see valley section parallel bed on loess &.sand pebble bed between two sides. It shows clearly that loess plateau was primary, but yellow river was later. Yellow river came from ditch &. stream development, and it was formed by erosion &.cut loess plateau.

See up information that the sand pebble bed, big sand beach on top of mountain, many clay minerals in loess bed, and fossils group of elephant can not be explained by aeolian theory or eluvial theory. It shows that loess bed was formed in hydro-sedimentary genesis, and climate was heat &.wet forest &.grassland weather . More facts showed that loess plateau was the substantial expose very clear &. sure, and it was preserved very completed &. convinced &. too big on Quarternary sedimentary bed . Since Quaternary Himalaya mountain had uplifted strongly &. went on, plate collided with each other , energy released, then it caused flood loess sedimentary. We can see the cataclysm hydatogenous theory, established by Li Mingguang, may explain completely in important facts. A book which was written by Li Mingguang, "Uplifting of Himalayas & Formation of the Loess Plateau"published in 1988, the points of view &. predict were tested &. proved.