

Hou Yi Shooting Suns—General-Cliff Rock-painting —Comet Jupiter Collison— Taihu Airburst impact

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The legend of Hou Yi shooting down nine suns is a well-known Chinese legend that appears in the ancient Book of Mountains and Seas. It says that ten suns suddenly appeared in the sky, scorched the earth, and heroic Hou Yi shot down nine of them with his arrow, saving his fellow countrymen.

A rock painting (picture in) carved on a granitic General Cliff in Lianyungang, Jiangsu Province, by prehistoric people has puzzled archeologists for decades. Chao (2012) proposed that the rock painting is a vivid eye-witness account of the celestial event of a comet or meteorite debris entering and impacting the nearby site[1].

The Collision between Sheomaker-Levy Comet into Jupiter in 1994 is one spectacular celestial impact. The comet was discovered in 1993, orbiting Jupiter for a year after its discovery, being torn apart by Jupiter's gravity into fragments within its Roche limit, which then crashed into Jupiter's atmosphere successively, resulting in huge airbursts that appeared as huge dark spots on Jupiter with sizes comparable to the Earth.

The hypothesis of Taihu Lake airburst is about a multiple point airburst impact event in Taihu lake in Eastern China resulting by extraterrestrial objects collision with the Earth [2,3]. Based on the newly marked Holocene mud layer and iron-rich concretions in Taihu lake area, the airburst hypothesis was proposed: About 7,000 years ago, the multiple-point airburst impacts by meteorites or comets led to the disturbance of shallow surface strata in Taihu lake area, which could silt or block the river channels on the original alluvial plain, forming the early dammed lake of Taihu lake [2-4].

The above four isolated events are all related to celestial airburst impact events with unsolved mysteries, speculations, and modern scientific hypotheses. The airburst impact evidences were buried underground, waiting to be discovered and verified.

[1] Chao (2012), B. F., Scientific American Taiwan Edition, 125. [2] Xie et al. (2019), LPSC #3222. [3] Zuo and Xie (2021), Minerals, 11, 632. [4] Zuo (2020), Ph.D. dissertation, pp1-149.