

A SURVEY OF THE ORINOCO RIVER BASIN FOR INTENSE AURORA Z-PINCH PATTERNS RECORDED BY MANKIND IN PREHISTORY

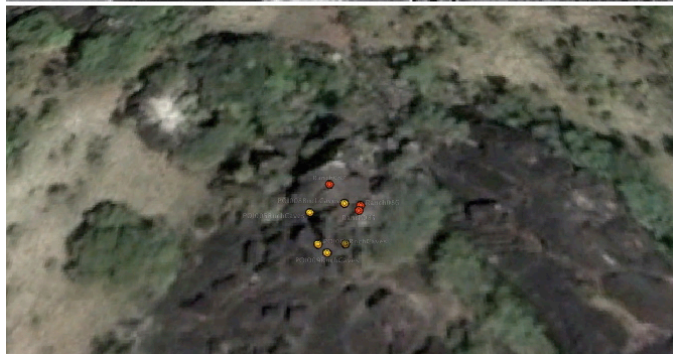
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Rock art from the Neolithic carry patterns of high-current Z-pinches as would result from an intense plasma impinging Earth. Comparison of the artwork has been made to experimental and computational Z-pinch data¹. GPS locations of the art worldwide illustrate that all carvings were oriented $\pm 4^\circ$ to the artists view polar south (PS)². We report the survey of overlaying granite boulders along 300 km of the Orinoco River: caves with views in all directions. From this data we find that the artists view was $\pm 1.5^\circ$ PS, the direction of aurora synchrotron radiation seen above Antarctica.



Top: view PS inside cave. To right of clinometer, Chandrasekhar-Shafranov separatrix petroglyph¹. Bottom: 0.6-m resolution Quickbird satellite photo of cave locations (dots) at Tres Cerr, Venezuela; polar south at bottom.

1. A. L. Peratt, 'Occurrence of a high-current, Z-pinch aurora', IEEE Trans. Plasma Sci., pt.1, v31, pp. 1192-1214, 2003.
2. A. L. Peratt, 'Occurrence of a high-current, Z-pinch aurora', IEEE Trans. Plasma Sci., pt.2, v35, pp. 778-807, 2007.
3. <http://plasmascience.net/tpu/NearEarth.html>

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