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ScanPyramids 2023: Discovery of the North Face Corridor of Khufu Pyramid, last seen 4500 years ago

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The Great Pyramid of Egypt (also known as Khufu's Pyramid) is one of the oldest and largest stone buildings still standing. Despite being one of the Ancient World's Seven Wonders, it continues to be a mystery. Researchers, Egyptologists, and archaeologists have proposed a number of theories regarding the construction of this pyramid. None of them, however, have been supported yet by evidence.

The ScanPyramids project (www.scanpyramids.org) is an international mission started scanning the Great

Pyramid in October 2015 using cutting-edge technology: 3D modelling and digital simulation, Infra-red Thermography, Muography (cosmic-ray muon radiography). In November 2017 ScanPyramids Big Void (SP-BV)

was detected above the grand gallery and announced. Muon measurements also suggested the presence of an anomaly behind the chevrons at the North Face above the entrance of the Pyramid, most likely an unrecognized corridor known as the ScanPyramids North-Face Corridor (SP-NFC). For more accurate localization of this anomaly, a combination of Non Destructive Techniques (Ground Penetrating Radar (GPR), Ultrasonic Testing (UST) and Electric Resistivity Tomography (ERT) and Image Fusion were used to explore the area behind the chevrons. Based on the results from these measurements and analysis, the location and geometry of the ScanPyramids North Face Corridor (SP-NFC) anomaly was detected with few centimeters accuracy and it was possible to see this unknown corridor for the first time since 4500 years ago, using an endoscope.

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