

VLADO MILIĆEVIĆ

DOES THE NEW EUROPA RISES?

In this paper, we present sequential data and analysis from previous missions to Jupiter, with a particular focus on its satellite Europa. Europa plays a crucial role in our understanding of the Jovian system. We examine its orbital and physical characteristics, geological and tectonic features, and the potential for life beneath its icy surface. Recent and upcoming missions to Europa in 2023 and 2024 are expected to significantly enhance our understanding of this intriguing moon. These missions may offer new insights into the origin of life, the composition and dynamics of Europa's subsurface ocean, and other physical characteristics. High-resolution images and scientific data from these missions may help answer pressing questions: Is Europa undergoing geological renewal? And more importantly, could microbial life exist in the depths of its hidden ocean?

Keywords: Jupiter's satellite Europa, orbital and physical characteristics, geology and tectonics, possible life on the moon, "new Europa", space mission *Voyager 1* and *Voyager 2*, *Galileo* mission, Jupiter orbital lander *Juno*, space mission ESA's *JUICE* and NASA *Europa Clipper*.