

Research the Natural Phenomenon called Shiranui 5 ~The reality of Shiranui and attempts to reproduce~

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The Shiranui phenomenon is a mysterious fire phenomenon that can be seen in the Shiranui Sea on the night of Hassaku every year, and is considered to be a kind of mirage caused by abnormal refraction. This year, based on three questions: "Current status - Can we see Shiranui now?", "Principle - Scientific generation mechanism -", "Reproduction - Can Shiranui be reproduced? He challenged to elucidate the scientific principles. In particular, regarding the reproduction of the third question, we devised the placement of the silicon rubber heater and succeeded in reproducing Shiranui as if it were the Sea of Shiranui. Five years of research based on observations and experiments revealed that Shiranui is currently difficult to observe. In addition, it was scientifically clarified that it is a very rare mirage phenomenon that can occur and be observed under various conditions.

Keywords: Shiranui, mirage, abnormal refraction, reproduction experime, lightpath

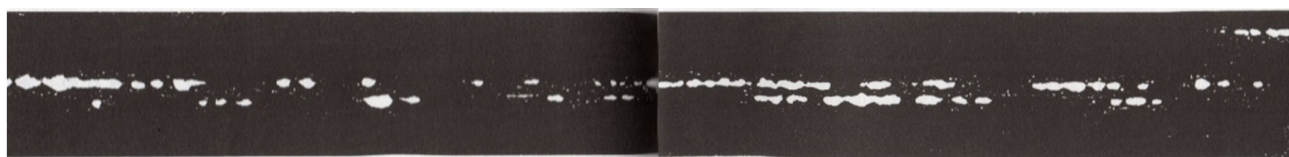


図1 昔見られた不知火の様子（昭和12年、宮西通可撮影）



図2 観測地点（観望所、海岸）の位置

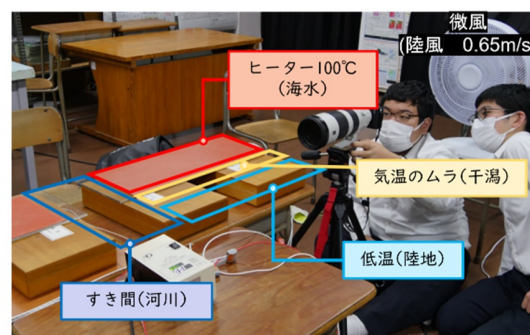


図3 再現装置の様子

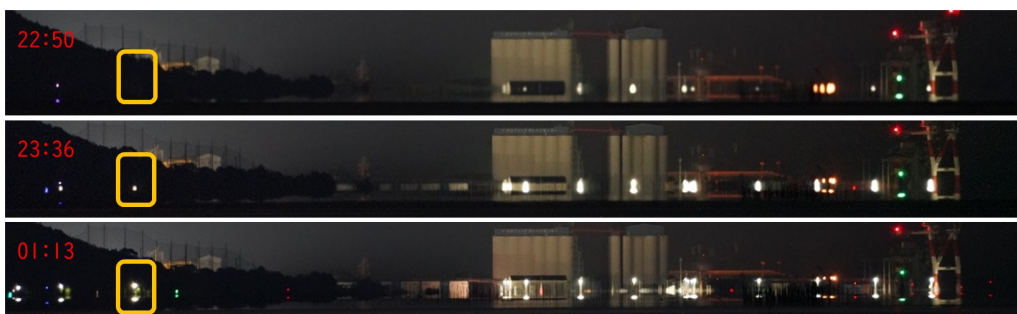


図4 八朔の観測で見られた現象（2022/8/27撮影）

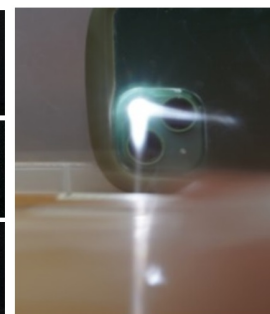


図5 再現した不知火