

infrasound detections of the Osiris Rex capsule re-entry

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In a recent paper, Phil Blom et al. [JASA 155 (3), March 2024] developed a method to predict regional infrasound originating from supersonic sources. These results were integrated into InfraGA, LANL's infrasound ray-tracing library. The September 2023 re-entry of the OSIRIS-Rex capsule presented an excellent opportunity to test these results against a known source. Three arrays were deployed at regional distances with locations determined by InfraGA. Additionally, data from the re-entry was gathered from several other existing arrays. In this talk we present a brief description of the mach cone ray-tracing prediction, along with beamformed results from the arrays.

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