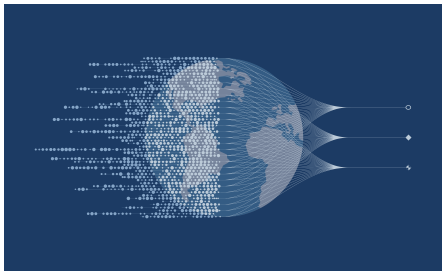

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Operational and Processing Experience for Data from the First Commercial Unit of the Xenon International

The first commercially available unit of the Xenon International system was installed at the General Dynamics Mission Systems' Engineering Test Bed (Chantilly, Virginia, USA) in May of 2024. In preparation for deployment into the IMS, General Dynamics has operated the system in the same manner as a certified system and has been working in conjunction with the Provisional Technical Secretariat to provide spectral and state of health data from this Test Bed system. Since the installation, General Dynamics has observed several low-level (≤1 mBq/m3) detections. This work will cover the initial experiences in operations, maintenance, and data processing of the Xenon International system. In addition, a comparison of the xenon analyses provided by different tools for the first year of spectral data and the system's first spike samples will be presented.

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