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equilibration of Hyperion infrasound sensors

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An evaluation of several Hyperion 5313A infrasound sensors was performed in order to determine the length of time it takes for the sensors to thermally equilibrate under a variety of environmental conditions. The motivation for performing these tests was to aid in determining suitable procedures for station operators to follow when installing these sensors. Thermal equilibration occurs when the temperature of the component materials of a sensor are equalizing with its environment. This can occur when the sensor is exposed to an environment with a different ambient temperature or when the sensor is first powered on, both of which typically occur during the installation of a sensor. During the equilibration period, the measured noise on the sensor output can be considerably higher than when it has thermally stabilized.

Promotional text

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