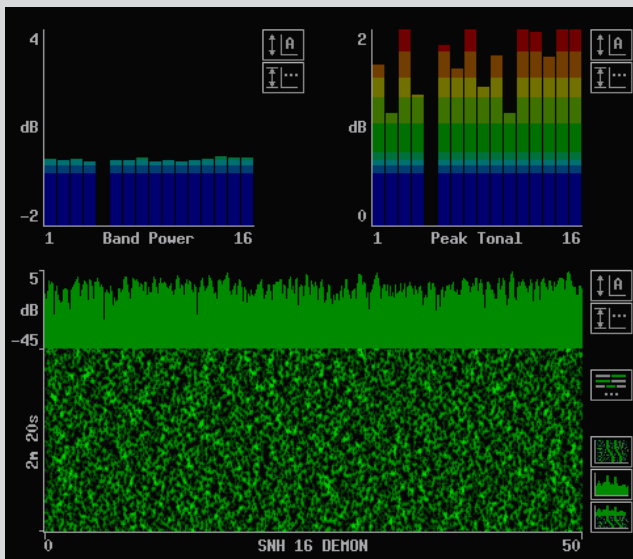




## Circe Submarine Self Noise Monitoring System



Circe is an easy use, accurate system that is designed to monitor and record real-time acoustic data from the Self Noise Hydrophones.

Circe can be correlated with machinery status information and navigation data harvested from the sonar network to:

- Continuously monitor the own-ship self noise signature while at sea
- Immediately detect and therefore reduce the duration and impact of unexpected own ship noise
- Localise own ship noise sources such as:
  - A cavitating propeller
  - Noisy machinery operating within the submarine
  - Any loose or unsecured items
  - External to the pressure hull
  - An object fouling the hull
  - Flow related noise resonances
- Provide the long term noise trend of the machinery through regular and consistent monitoring
- Allow collection of signatures for comparison across the class platforms and over time

### Capabilities

- Easy to operate
- Monitor individual machinery state
- Record data for further analysis
- Set and monitor the vessels self noise baseline

... a sound decision

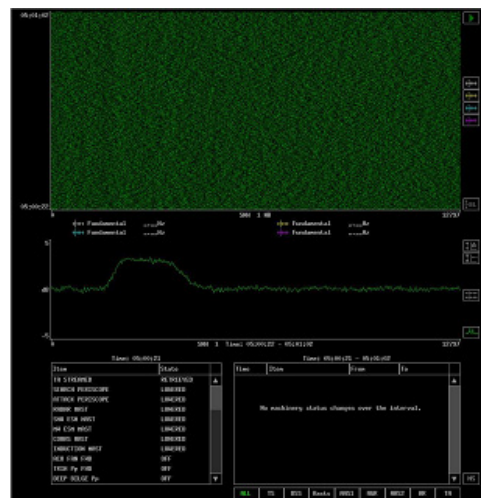


### Variety of Views for Data Analysis:

- LOFAR Gram
- DEMON Gram
- ALI
- Band Power
- Peak Tonal

### Display machinery status and noise levels:

- Pumps and Fans
- Engines and Generators
- Coolers and Refrigeration
- Masts and Sknorkels



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