

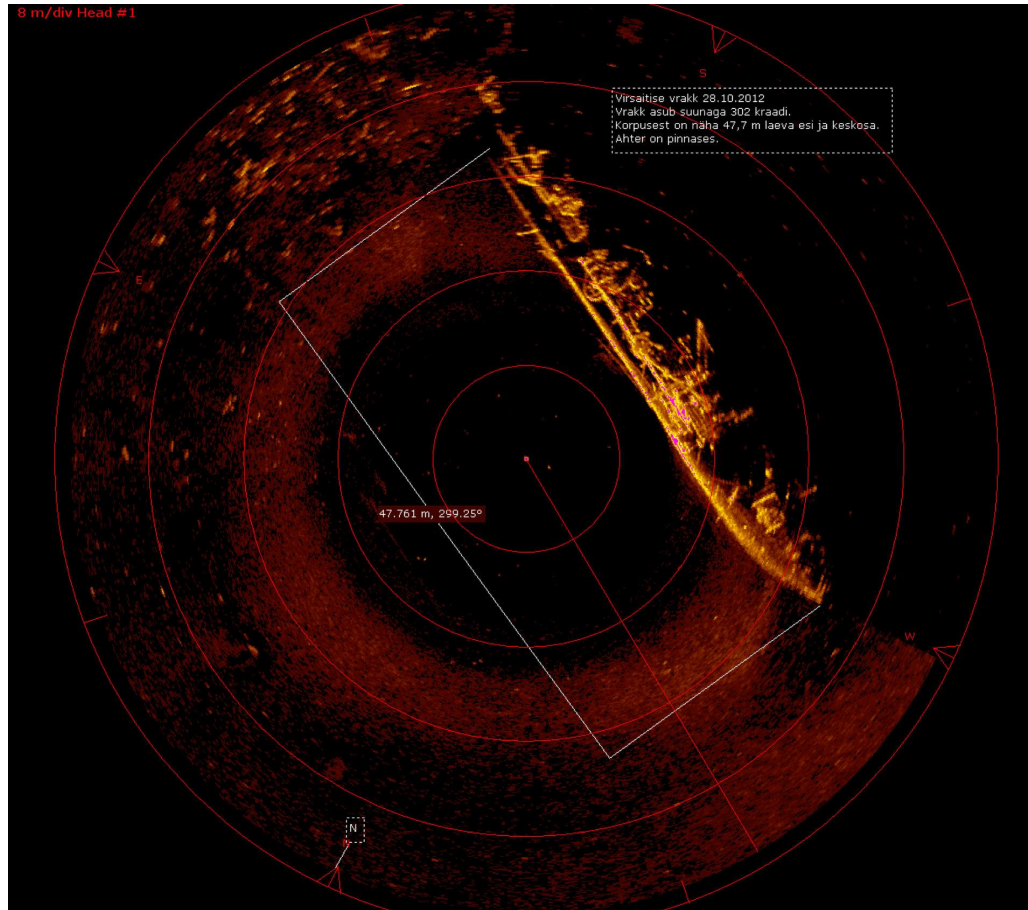
Multisensor Data Fusion in Anti-Submarine Warfare (ASW)

Patrick O'Keeffe

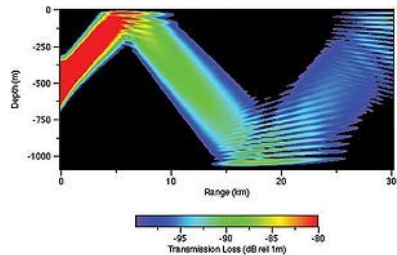
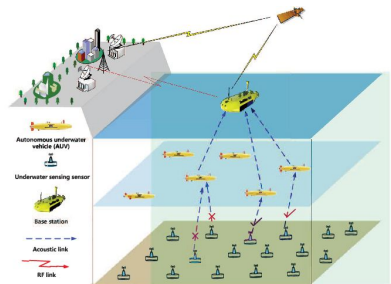
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Navy Officer | Aerospace Engineer | Pilot



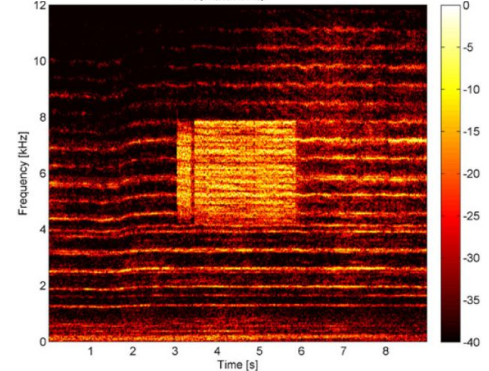
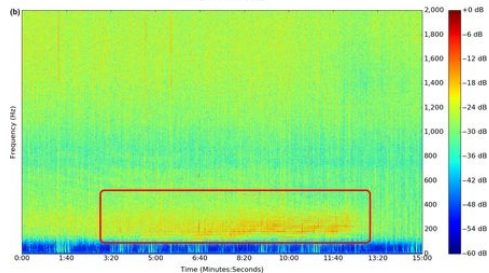
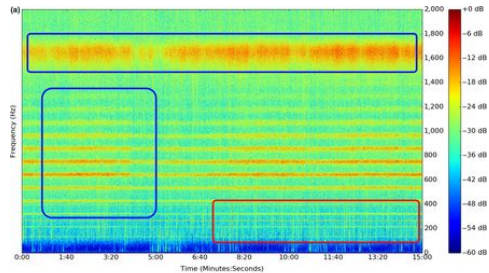
SONAR (Sound, Navigation, Ranging)



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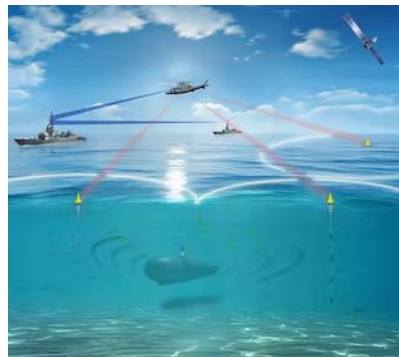


MULTI-SPECTRAL

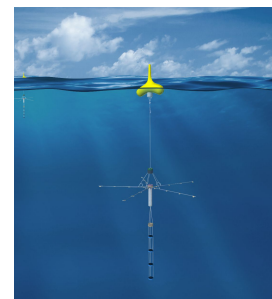


AND

MULTISTATISTICS

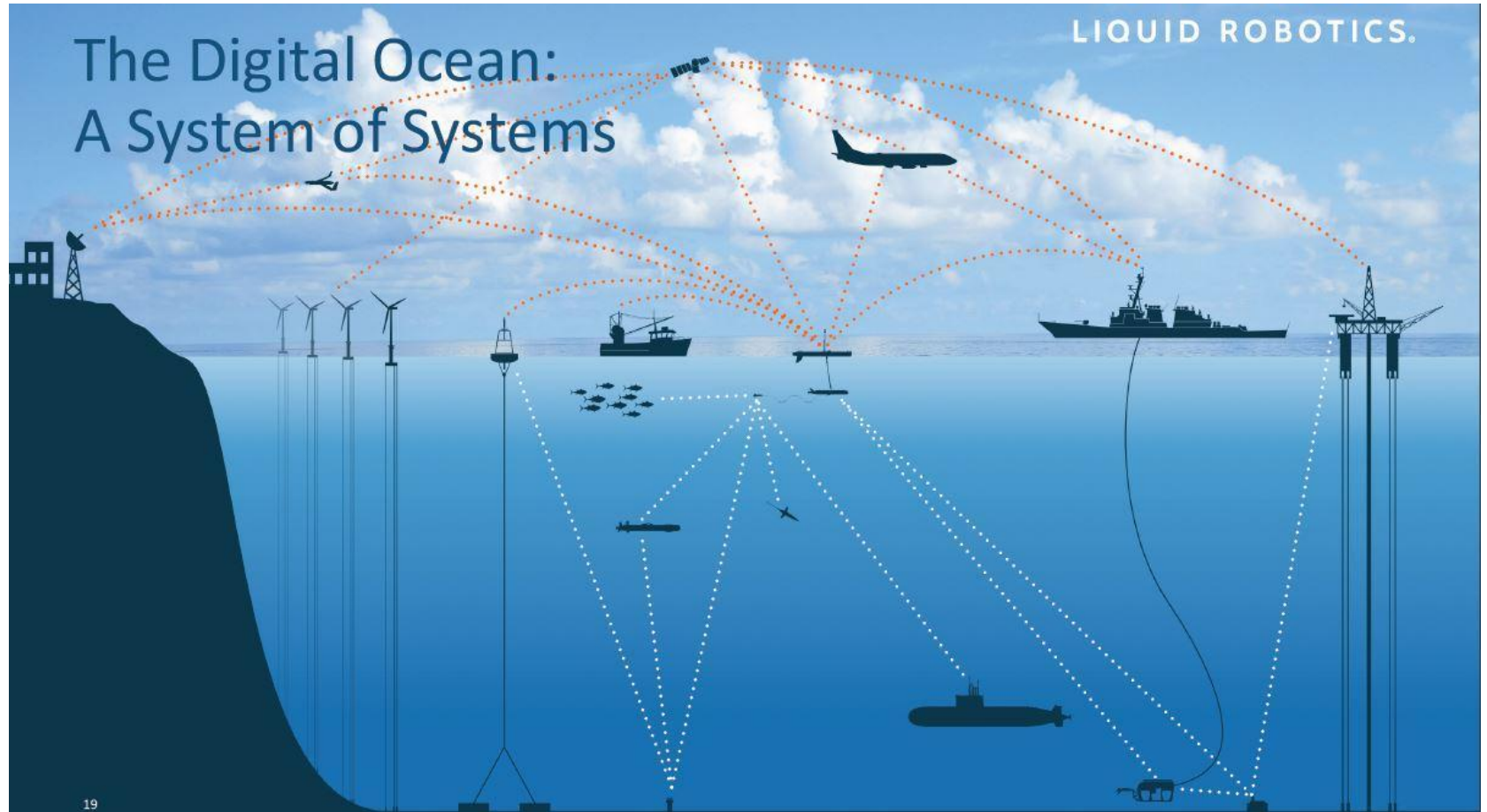


SENSING



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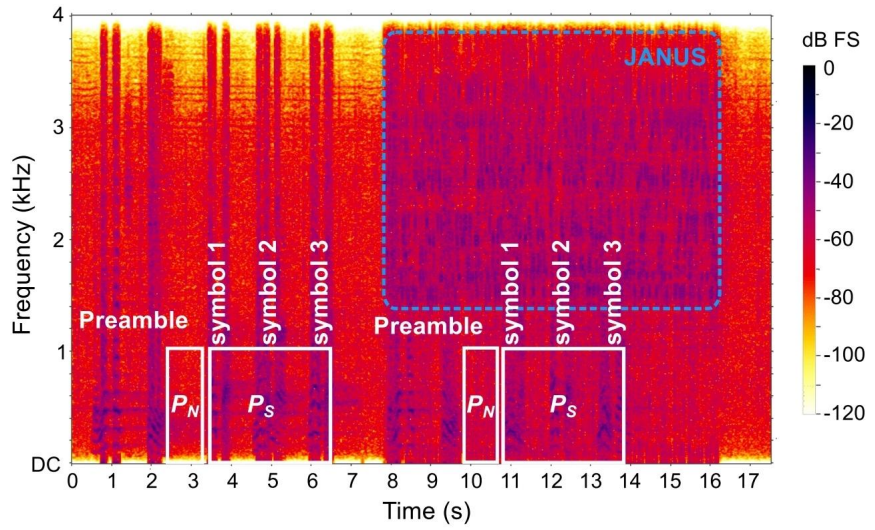
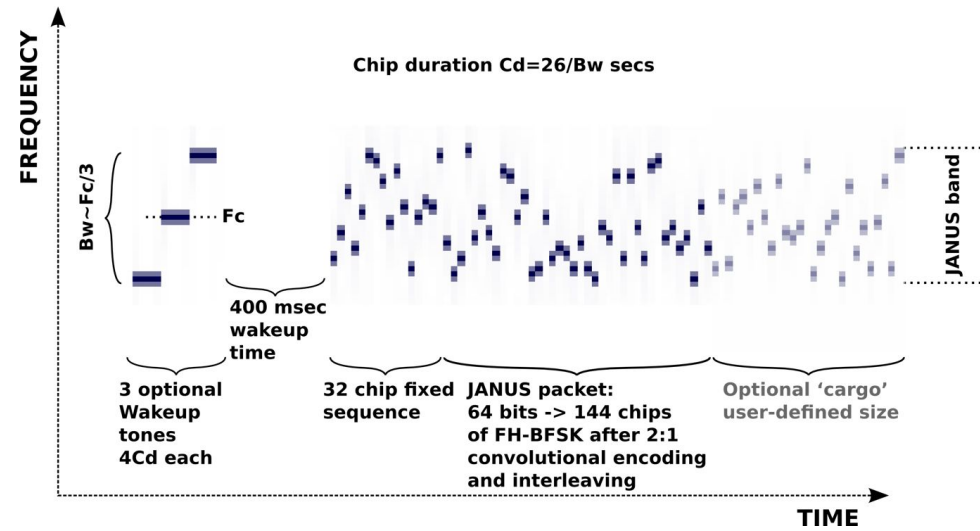


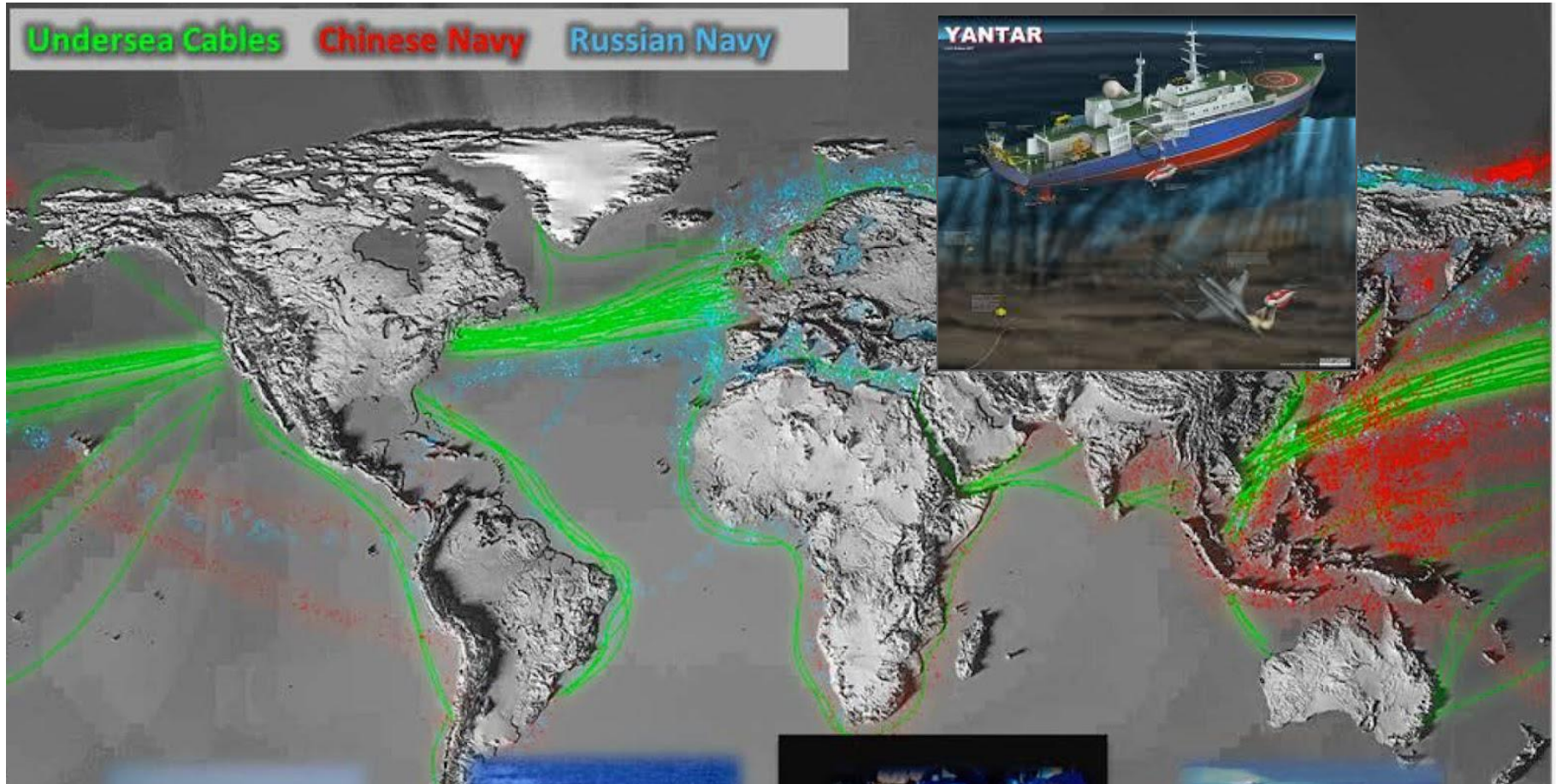
Fig. 2: Illustration, over acquired data, of the signal portions used to calculate noise, signal and interference power during a sequence of clean and interfered voice recordings



F
in

Seabed / Sea Cable Operations

Undersea Cables Chinese Navy Russian Navy



Multisensor Data Fusion CHN



Kexue



Xiang Yang Hong 01



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Multisensor Data Fusion DEU

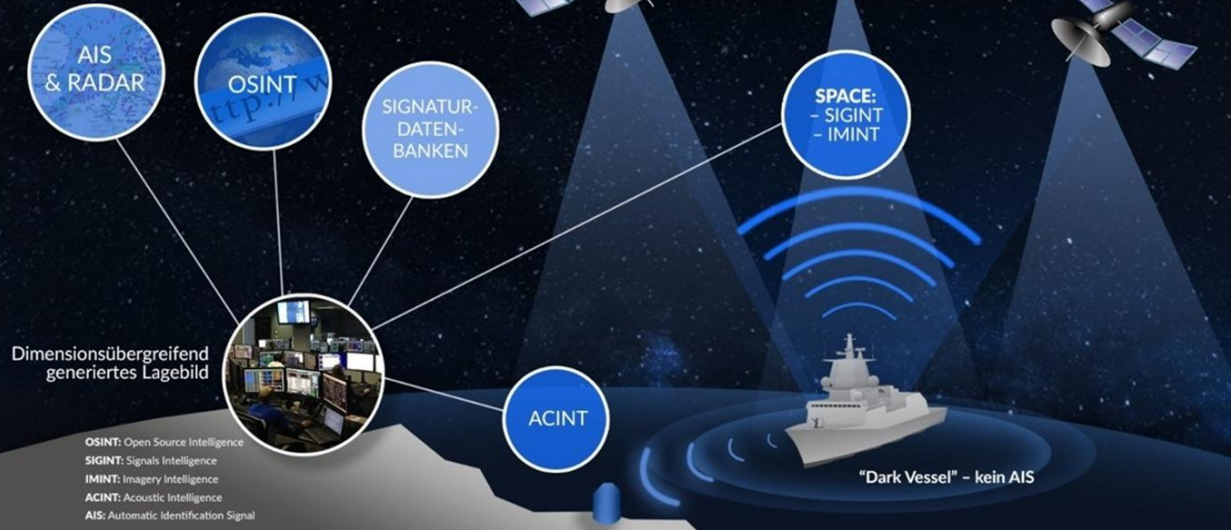
Satelliten erfassen:

Bilder:

- Optisch
- Radar

Abstrahlung:

- Navigationsradare
- AIS
- Signale zwischen Schiffen oder mit anderen Satelliten



USE CASES

PRE-PLANNING FOR SONOBUOY DEPLOYMENT

POST PROCESSING AFTER CLOSEST POINT OF APPROACH (CPA)

IDENTIFYING SUBMARINES FROM SPACE

**Thank you very much
for your attention!**

Questions?

Patrick O'Keeffe

Centre of Excellence for Operations in Confined and Shallow Waters (COE CSW)
Navy Officer | Aerospace Engineer | Pilot



Future

